

REQUEST NUMBER: 10-2121

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7540	S	2/23/2010	
	SW-846:8270C	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846:8321A_MOD	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	

Thursday, February 25, 2010

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REQUEST NUMBER: 10-2121

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD						
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

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Thursday, February 25, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2121

LOS ALAMOS

REQUEST NUMBER: 10-2121

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

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
RE36-10-7405	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7405	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7403	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7403	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7406	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7406	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7404	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7404	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7516	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7516	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7540	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE36-10-7426	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7426	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7432	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7432	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7431	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7431	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7434	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7434	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7425	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7425	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7429	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7429	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7433	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7433	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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7403

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1240		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 36-610574		↓		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		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+NO3+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, pine needles, cuff fragments, organic material

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 53 dpm
Beta/Gamma = 1966 dpm

PID ~~Ambient Reading~~ = ppm

72m 2/23/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) J. Robertson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy McFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7404

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1255		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610574		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		2.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		2.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown sandy silt, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 35 dpm
Beta/Gamma \leq 2160 dpm

PID ~~Ambient Reading~~ = ppm

7th 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tray 3	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sherie Herwood (Signature) Sherie Herwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7405

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1340		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 36-610575		↓		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: B		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown sandy silt, ash, roots, tuff fragments

FD: RE 36-10-7516

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 35 dpm

Beta/Gamma ≤ 165% dpm

PID ~~Ambient Reading~~ = ppm

774 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Rebersen

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	2/23/10	(Printed Name) Sherri Sherwood	2/23/10
(Signature) [Signature]	1645	(Signature) [Signature]	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7406

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1400		SUB-MEDIA:	TUFF.1		NA
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610575	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	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+NO3+pH	500 ML POLY	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Brown dry sandy silt, tuff fragments

FR RE36-10-7529

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 76 dpm
Beta/Gamma \leq 2260 dpm

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

73m 2/23/10

COLLECTED BY (PRINT)

TLMCFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMCFarland (Signature) Tracy [Signature]	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7425

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA: QBT3		Allh	
TIME COLLECTED(HH:MM)		1150		SUB-MEDIA: TUFF 1		NA	
PRS ID:	36-008	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	36-610585	↓		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	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brownish black silt, some clay, roots, few tuff fragments

FTB: RE36-10-7540

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-7

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 29 dpm
Beta/Gamma \leq 2030 dpm

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

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	2/23/10	(Printed Name) Sheri Sherwood	2/23/10
(Signature) <i>TLMcFarland</i>	1645	(Signature) <i>Sheri Sherwood</i>	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7426

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/23/2010	MEDIA:		QBT3
TIME COLLECTED(HH:MM)		1315	SUB-MEDIA:		TUFF 1
PRS ID:	36-008	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	36-610585	↓	FIELD QC TYPE:		NA
LOCATION TYPE:	GENERIC	↓	FIELD PREP:		NA
TOP DEPTH:	0	2.0	SAMPLE USAGE:		INV
BOTTOM DEPTH:	0	3.0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

#	PRIORITY	ORDER	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 sandy silt, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-7

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 17 dpm
Beta/Gamma < 2000 dpm

PID ~~Ambient Reading~~ = 73 m 2/23/10 ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Jon Robertson

RELINQUISHED BY (Printed Name) Th McFarland (Signature) <i>Th McFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) <i>Sherrin Herwood</i> (Signature) <i>Sherrin Herwood</i>	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7429

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1435		SUB-MEDIA:		TUPE 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610587		↓		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		S		EXCAVATED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
BOREHOLE: YES <input checked="" type="checkbox"/> 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+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, slightly moist

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-22

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 41 dpm
Beta/Gamma = 1634 dpm

PID ~~Ambient Reading~~ = ppm

T3m 2/23/10

COLLECTED BY (PRINT)

TLMcfarland

REVIEWED BY (PRINT) Jan Roberson

RELINQUISHED BY

(Printed Name) TLMcfarland

(Signature) [Signature]

Date/Time

2/23/10
1645

RECEIVED BY

(Printed Name) Sherri Herwood

(Signature) [Signature]

Date/Time

2/23/10
1645

RELINQUISHED BY

Date/Time

RECEIVED BY

Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7431

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1505		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610588		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORF DESC:		NA	
FIELD MATRIX: B		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown silty sand, pine needles, glass, wire

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 29 dpm
 Beta/Gamma \pm 1697 dpm

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

73m 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7432

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1525		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610588			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	5		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown silty sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = $\frac{23}{1995}$ dpm
 Beta/Gamma = $\frac{1995}{1995}$ dpm

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

73m 2/23/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7433

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		OBT3	
TIME COLLECTED(HH:MM)		15 40		SUB-MEDIA:		TUFF 1	
PRS ID: 26-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 26-610582		↓		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		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: moist dark brown loamy silt

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-8

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 23 dpm
Beta/Gamma = 2000 dpmPID ~~Ambient Reading~~ = ppm

72m 2/23/10

COLLECTED BY (PRINT)

T L McFarland

REVIEWED BY (PRINT) Jon Robertson

RELINQUISHED BY (Printed Name) T L McFarland (Signature)	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature)	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7434

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA: QBT3		A/H	
TIME COLLECTED (HH:MM)		1555		SUB-MEDIA: TUFF 1		NA	
PRS ID: 36-008		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 36-610589		↓		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: B		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMEID 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+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown moist silty sand, loam, ^{fine} needles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-8

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 53 dpm
Beta/Gamma = 2030 dpm

PID ^{Ambient} Reading = ppm

73m 2/23/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY <i>Sherrif Newwood</i> (Printed Name) (Signature)	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7516

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA: QBT3		Allh	
TIME COLLECTED (HH:MM)		1340		SUB-MEDIA: TUFF 1		NA	
PRS ID: 36-008		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: UNK		36-610575		FIELD QC TYPE: ED			
LOCATION TYPE: GENERIC		OK		FIELD PREP: NA			
TOP DEPTH: 0		0.0		SAMPLE USAGE: QC			
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: B		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	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 RE36 -10-7405

Brown sandy silts, ash, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 35 dpm
 Beta/Gamma \leq 185% dpm

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

73m 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. Robertson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	2/23/10	(Printed Name) Jennifer Herwood	2/23/10
(Signature) Tracy Zant	1645	(Signature) Jennifer Herwood	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7529

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED (MM/DD/YYYY):		02/23/2010		MEDIA:		NA	
TIME COLLECTED (HH:MM)		1427		SUB-MEDIA:		OTHER	
PRS ID: 36-008		OK		SAMPLE TECH CODE:		DC	
LOCATION ID: UNK		36-610575		FIELD QC TYPE:		ER	
LOCATION TYPE: GENERIC		OK		FIELD PREP:		UF	
TOP DEPTH: 0				SAMPLE USAGE:		QC	
BOTTOM DEPTH: 0				SCREEN/PORT DESC:		NA	
FIELD MATRIX: W				EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: QC Sample of RE36-10-7406

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) <i>Sherris Sherwood</i> (Signature) <i>Sherris Sherwood</i>	Date/Time 2/23/10 1645
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7540

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		NA	
TIME COLLECTED (HH:MM)		1145		SUB-MEDIA:		OTHER	
PRS ID: 36-008		ok		SAMPLE TECH CODE:		DC	
LOCATION ID: UNK		36-610585		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		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
73M 2/23/10						
1	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	lcc	Y	

SAMPLE DESC: QC Sample of RE 36-10-7425

SAMPLE COMMENTS:

FTB

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) J. Robinson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TL McFarland	2/23/10	(Printed Name) Sheri Sherwood	2/23/10
(Signature) [Signature]	1645	(Signature) [Signature]	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071

Client Sample ID: RE36-10-7403

Sample Collection Date: 02/23/10 12:40

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00071-001

Date Received: 02/24/10 00:00

Report Date: 02/25/10 12:54

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	69.07	39.05	37.46	39.96		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	39.48	17.95	18.42	19.37		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.05	0.21	0.18	0.21		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	22.07	10.13	1.91	10.13		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.18	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.08	0.17	0.20	0.17		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.65	0.41	0.11	0.41		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.75	214.63	0.48	214.63		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.89	0.66	0.13	0.66		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-226	1.57	0.95	0.46	0.95		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	-0.81	256.75	0.58	256.75		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.40	4.32	1.82	4.43		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.55	0.43	0.18	0.44		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 1.50										

Matthew J. Edin
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 # E67558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071

Request or PO Number:

Client Sample ID: RE36-10-7404

ARS Sample ID: ARS2-10-00071-002

Sample Collection Date: 02/23/10 12:55

Date Received: 02/24/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/25/10 12:54

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	55.90	34.02	34.06	34.71		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	51.07	18.89	17.92	18.01		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.04	0.17	0.14	0.17		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	36.75	11.77	1.55	11.82		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.17	0.17	0.10	0.17		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.03	0.06	0.09	0.06		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.61	174.13	0.39	174.13		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.32	0.56	0.18	0.56		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	0.00	0.00	0.38	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	1.35	1.34	0.57	1.34		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.10	3.35	1.41	3.48		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.47	0.44	0.15	0.44		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 1.34										

Matthew J. Eden
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: ARS2-10-00071
 Client Sample ID: RES6-10-7405
 Sample Collection Date: 02/23/10 13:40
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00071-003
 Date Received: 02/24/10 00:00
 Report Date: 02/25/10 12:54

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracker/Chem Recovery
GROSS ALPHA	46.24	31.88	32.78	32.05		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	54.36	17.74	18.31	18.95		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	-0.05	51.74	0.16	51.74		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	30.35	11.47	1.78	11.80		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.42	0.42	0.17	0.42		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.13	0.19	0.24	0.19		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.48	0.34	0.10	0.34		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.70	200.29	0.45	200.29		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	0.95	0.54	0.20	0.54		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	2.22	1.25	0.43	1.25		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	2.53	1.41	0.54	1.41		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	3.80	3.45	1.55	3.56		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	-0.04	40.23	0.09	40.23		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 1.66										

Matthew A. Ficker
 Quality Assurance Review

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NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071
Client Sample ID: RE36-10-7406
Sample Collection Date: 02/23/10 14:00
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00071-004
Date Received: 02/24/10 00:00
Report Date: 02/25/10 12:54

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Quel	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	60.25	35.05	33.91	35.82		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	60.68	17.88	17.73	19.34		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	-0.04	38.68	0.12	35.68		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	0.00	842.08	1.89	842.08		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.11	0.18	0.11	0.18		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	0.30	0.32	0.35	0.32		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.87	0.57	0.18	0.57		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	2.53	1.00	0.32	1.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	-0.56	210.00	0.47	210.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.10	3.18	1.40	3.31		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.12	0.24	0.12	0.24		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 1.47										

Matthew L. Eder
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: ARS2-10-00071

Request or PO Number:

Client Sample ID: RE36-10-7425

ARS Sample ID: ARS2-10-00071-005

Sample Collection Date: 02/23/10 11:50

Date Received: 02/24/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/25/10 12:54

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	49.27	33.88	37.46	34.41		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	54.99	17.25	18.41	18.52		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	-0.03	35.85	0.11	35.85		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	28.54	9.26	1.24	9.29		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.07	0.11	0.12	0.11		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.42	0.26	0.07	0.26		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
BU-152	-0.34	-1.16	0.31	-1.16		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.44	0.49	0.13	0.49		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	0.00	0.00	0.30	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	0.55	0.57	0.37	0.57		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	2.71	2.76	1.26	2.83		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.07	0.16	0.08	0.16		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 2.59										

Matthew J. Edger
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
805-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071
Client Sample ID: RE36-10-7426
Sample Collection Date: 02/23/10 13:15
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00071-006
Date Received: 02/24/10 00:00
Report Date: 02/25/10 12:54

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	78.96	39.58	34.86	40.75		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	64.66	18.51	17.92	20.13		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	-0.04	43.71	0.14	43.71		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	1.68	9.66	4.56	9.66		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CD-60	0.08	0.12	0.15	0.12		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.22	0.18	0.14	0.18		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.01	-0.02	0.38	-0.02		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.26	0.60	0.23	0.60		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	1.66	0.84	0.37	0.84		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	0.72	0.79	0.56	0.79		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.29	3.02	1.22	3.17		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.05	0.25	0.13	0.25		pCi/g	EPA 901.1M	2/24/2010	ME	N/A

NOTES: % Moisture: 1.47

Matthew J. Edin
Quality Assurance Review

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NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071
Client Sample ID: RE36-10-7429
Sample Collection Date: 02/23/10 14:35
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00071-007
Data Received: 02/24/10 00:00
Report Date: 02/25/10 12:54

Analysis Description	Analysis Results	Analysis Error +/- 2 s	NDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	75.22	39.15	32.78	40.22		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BMTA	70.16	19.78	18.31	21.56		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	-0.04	43.11	0.14	43.11		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	26.19	9.73	1.49	9.75		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.14	0.22	0.18	0.22		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.40	0.28	0.08	0.28		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.26	-0.80	0.39	-0.80		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.09	0.48	0.15	0.49		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	1.75	0.97	0.36	0.96		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	1.44	0.93	0.61	0.93		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.99	3.75	1.83	3.93		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	-0.03	40.82	0.09	40.82		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 3.05										

Matthew J. Fahn
Quality Assurance Review

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133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071

Request or PO Number:

Client Sample ID: RE36-10-7431

ARS Sample ID: ARS2-10-00071-008

Sample Collection Date: 02/23/10 15:05

Date Received: 02/24/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/25/10 12:54

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	124.54	48.52	33.91	50.95		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	87.04	21.03	17.73	23.57		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.04	0.17	0.14	0.17		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	5.28	7.11	2.80	7.11		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.12	0.15	0.15	0.15		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.28	0.28	0.15	0.28		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.62	0.36	0.09	0.36		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
FU-152	-0.22	-0.53	0.39	-0.53		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	0.78	0.55	0.25	0.55		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	1.97	0.92	0.37	0.92		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	1.56	0.88	0.54	0.88		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.58	3.85	1.52	3.99		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.36	0.32	0.12	0.32		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 3.78										

Matt J. Edger
Quality Assurance Review

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NELAP Certificate # EB7558



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ARS Sample Delivery Group: ARS2-10-00071
 Client Sample ID: RE36-10-7432
 Sample Collection Date: 02/23/10 15:25
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00071-009
 Date Received: 02/24/10 00:00
 Report Date: 02/25/10 12:54

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	73.95	40.25	37.46	41.26		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	88.21	20.46	18.42	23.15		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.12	0.22	0.13	0.22		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	23.20	8.93	1.41	8.95		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.37	0.32	0.09	0.32		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.19	0.19	0.08	0.19		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.55	158.76	0.36	158.76		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.85	0.61	0.18	0.62		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	0.75	1.00	0.40	1.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	0.89	0.85	0.54	0.85		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	7.48	5.50	1.99	5.76		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	-0.02	-0.20	0.09	-0.20		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 1.60										

Matthew A. Eden
 Quality Assurance Review

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NELAP Certificate # E87558



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ARS Sample Delivery Group: ARS2-10-00071
 Client Sample ID: RE36-10-7433
 Sample Collection Date: 02/23/10 15:40
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00071-010
 Date Received: 02/24/10 00:00
 Report Date: 02/25/10 12:54

Analyte Description	Analyte Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	120.45	48.00	34.06	80.21		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	107.69	22.32	17.92	28.09		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.05	0.19	0.15	0.19		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	25.18	10.07	1.66	10.10		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.06	0.08	0.13	0.08		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	1.01	0.48	0.09	0.48		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RU-102	1.22	0.95	0.42	0.95		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PR-212	0.57	0.47	0.21	0.47		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	0.00	0.00	0.40	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	0.38	0.31	0.64	0.31		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	6.98	3.98	1.87	4.28		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.35	0.29	0.10	0.29		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 3.16										

Matthew J. Eden
 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: ARS2-10-00071
Client Sample ID: RE36-10-7434
Sample Collection Date: 02/23/10 15:55
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: AR62-10-00071-011
Date Received: 02/24/10 00:00
Report Date: 02/25/10 12:54

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	133.17	51.07	32.75	53.61		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	96.18	22.90	18.31	25.75		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.20	0.28	0.13	0.28		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	1.03	10.48	4.76	10.48		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	0.17	0.24	0.10	0.24		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.39	0.28	0.08	0.28		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
HU-182	-0.57	162.59	0.36	162.59		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.43	0.57	0.18	0.57		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	1.29	0.72	0.35	0.72		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	1.39	1.06	0.61	1.06		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	4.24	3.68	1.57	3.81		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.30	0.48	0.19	0.48		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 2.79										

Matthew J. Edler
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87556



133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00071
Client Sample ID: RE36-10-7516
Sample Collection Date: 02/23/10 13:40
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00071-012
Date Received: 02/24/10 00:00
Report Date: 02/25/10 12:54

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	142.90	51.85	33.91	84.72		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
GROSS BETA	113.87	23.26	17.73	27.12		pCi/g	EPA 900.0M	2/24/2010	ME	N/A
NA-22	0.05	0.21	0.17	0.21		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
K-40	4.18	9.52	3.91	9.52		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CO-60	0.00	0.00	0.18	0.00		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-134	-0.07	93.10	0.21	93.10		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
CS-137	0.25	0.25	0.11	0.25		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
EU-152	-0.24	-0.52	0.49	-0.52		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
PB-212	1.78	0.70	0.21	0.70		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
RA-228	1.68	0.94	0.46	0.94		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-235	0.15	0.98	0.65	0.98		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
U-238	5.77	5.37	2.11	5.53		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
AM-241	0.28	0.32	0.13	0.32		pCi/g	EPA 901.1M	2/24/2010	ME	N/A
NOTES: % Moisture: 2.01										

Matthew J. Eden
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5114-1

Records Use only

Data Validation Cover Sheet



Section I.

REQUEST NUMBER: 10-2121 VALIDATION DATE: 4/12/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Allison Felix 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 |
| <input checked="" type="checkbox"/> OTHER (DESCRIBE): VOCs | | | |

Section II. Completeness Check

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

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

- In the CCV associated with samples RE36-10-7425 and -7429, the %Ds for 1,2-dichloroethane and trichlorotrifluoroethane were >20%. In the CCV associated with samples -7405, -7431, and -7433, the %D for carbon disulfide was >20%. In the CCV associated with all other samples, the %Ds for dichlorodifluoromethane; trichlorofluoromethane; 2,2-dichloropropane; and carbon tetrachloride were >20%. The associated sample results were NDs and, thus, were qualified UJ,V7c.
- It should be noted that the 2-hexanone results exceeded the calibration range in the ICV and/or CCVs. No sample data were qualified as a result.
- It should be noted that the 2-hexanone results exceeded the calibration range in the LCSs. No sample data were qualified as a result.
- The MS/MSD %Rs for numerous target analytes were outside the laboratory acceptance limits. It should be noted that trichlorotrifluoroethane was not present in the MS/MSD spiking solution. MS/MSD analyses are not required for VOCs, thus, no sample results were qualified.

Reviewed by: ETM

Level: 1

Date: 4/13/10

VALIDATOR'S SIGNATURE:

Allison Felix

DATE: 4/12/10

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST


5114-2

Volatile Organic Compound (VOC) Analytical Data Validation Checklist

Records Use only



Yes No N/A				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 checked="" type="checkbox"/>	<input 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 ≤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 ≤5X the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, V4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V4e	R, V4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The IS retention time has shifted by more than 30 seconds.	UJ, V0	J, V0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, V0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, V0b	R, V0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	19. The quantitating IS are count is <10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow method-specific windows.	R, V1a	J, V1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The IS area count for the quantitating IS is <50% but >10% for organics window relation to the previous continuing calibration. Follow the method-specific windows.	UJ, V1b	J, V1b

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST

5114-2

Volatile Organic Compound (VOC) Analytical Data Validation Checklist

Records Use only



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

VOLATILE ORGANIC COMPOUND (VOC) ANALYTICAL DATA VALIDATION CHECKLIST

5114-2

Volatile Organic Compound (VOC) Analytical Data Validation Checklist

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE36-10-7403
Batch ID: 962059
Run Date: 03/06/2010 18:31
Prep Date: 03/05/2010 16:16
Data File: 7b612.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.16	ug/kg	0.396	1.16 UJ,V7c
74-87-3	Chloromethane	U	1.16	ug/kg	0.349	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.349	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.349	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.349	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.349	1.16 UJ,V7c
67-64-1	Acetone	U	5.82	ug/kg	1.93	5.82
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
74-88-4	Iodomethane	U	5.82	ug/kg	1.86	5.82
75-09-2	Methylene chloride	U	5.82	ug/kg	2.33	5.82
75-15-0	Carbon disulfide	U	5.82	ug/kg	1.45	5.82
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.349	1.16
78-93-3	2-Butanone	U	5.82	ug/kg	1.75	5.82
156-59-2	cis-1,2-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16 UJ,V7c
67-66-3	Chloroform	U	1.16	ug/kg	0.349	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.384	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.349	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.349	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.349	1.16 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.349	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.349	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.384	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.349	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.349	1.16
108-10-1	4-Methyl-2-pentanone	U	5.82	ug/kg	1.45	5.82
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.349	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.349	1.16
591-78-6	2-Hexanone	U	5.82	ug/kg	1.75	5.82
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.349	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.349	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.349	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.349	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.349	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 18:31	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b612.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.349	1.16
179601-23-1	m,p-Xylenes	U	2.33	ug/kg	0.349	2.33
95-47-6	o-Xylene	U	1.16	ug/kg	0.349	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.349	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.349	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.349	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.349	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.349	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.349	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.349	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.349	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.349	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.349	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.349	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.82	ug/kg	1.86	5.82
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16

Tentatively Identified Compound Summary

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

AMF
4/12/10

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197004

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 11.9
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7404
 Batch ID: 962059
 Run Date: 03/06/2010 19:36
 Prep Date: 03/05/2010 16:20
 Data File: 7b614.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.14	ug/kg	0.386	1.14 UJ,V7c
74-87-3	Chloromethane	U	1.14	ug/kg	0.341	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.341	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.341	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.341	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.341	1.14 UJ,V7c
67-64-1	Acetone	U	5.68	ug/kg	1.89	5.68
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
74-88-4	Iodomethane	U	5.68	ug/kg	1.82	5.68
75-09-2	Methylene chloride	U	5.68	ug/kg	2.27	5.68
75-15-0	Carbon disulfide	U	5.68	ug/kg	1.42	5.68
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.341	1.14
78-93-3	2-Butanone	U	5.68	ug/kg	1.70	5.68
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14 UJ,V7c
67-66-3	Chloroform	U	1.14	ug/kg	0.341	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.375	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.341	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.341	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.341	1.14 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.341	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.341	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.375	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.341	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.341	1.14
108-10-1	4-Methyl-2-pentanone	U	5.68	ug/kg	1.42	5.68
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.341	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.341	1.14
591-78-6	2-Hexanone	U	5.68	ug/kg	1.70	5.68
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.341	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.341	1.14
124-48-1	Dibromochloromethane	U	1.14	ug/kg	0.341	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.341	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.341	1.14

AMF
4/12/10

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
Client ID: RE36-10-7404	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 19:36	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:20	Analyst: AX01	Purge Vol: 5 mL
Data File: 7b614.d	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.14	ug/kg	0.341	1.14
179601-23-1	m,p-Xylenes	U	2.27	ug/kg	0.341	2.27
95-47-6	o-Xylene	U	1.14	ug/kg	0.341	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.341	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.341	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.341	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.341	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.341	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.341	1.14
108-67-8	1,3,5-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.341	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.341	1.14
99-87-6	4-Isopropyltoluene	U	1.14	ug/kg	0.341	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.341	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.341	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.68	ug/kg	1.82	5.68
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14

Tentatively Identified Compound Summary

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

AMF
4/12/10

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197001

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 17.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7405
 Batch ID: 962059
 Run Date: 03/09/2010 17:26
 Prep Date: 03/09/2010 14:40
 Data File: 7c214.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	J	2.97	ug/kg	2.42	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06 UJ,V7c
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client ID: RE36-10-7405	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/09/2010 17:26	Inst: VOA7.I	Dilution: 1
Prep Date: 03/09/2010 14:40	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7c214.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.42	ug/kg	0.364	2.42
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

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

AMF
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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 10.4
 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	1.12	ug/kg	0.380	1.12 UJ,V7c
74-87-3	Chloromethane	U	1.12	ug/kg	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12 UJ,V7c
67-64-1	Acetone	U	5.58	ug/kg	1.85	5.58
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.58	ug/kg	1.79	5.58
75-09-2	Methylene chloride	U	5.58	ug/kg	2.23	5.58
75-15-0	Carbon disulfide	U	5.58	ug/kg	1.40	5.58
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.58	ug/kg	1.67	5.58
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12 UJ,V7c
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.368	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.368	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.58	ug/kg	1.40	5.58
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	J	0.437	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.58	ug/kg	1.67	5.58
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
Client ID: RE36-10-7406	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 19:03	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:18	Analyst: AX01	Purge Vol: 5 mL
Data File: 7b613.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.23	ug/kg	0.335	2.23
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.58	ug/kg	1.79	5.58
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

Tentatively Identified Compound Summary

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

AMF
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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.1
 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	1.28	ug/kg	0.437	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.42	ug/kg	2.13	6.42
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.42	ug/kg	2.05	6.42
75-09-2	Methylene chloride	U	6.42	ug/kg	2.57	6.42
75-15-0	Carbon disulfide	U	6.42	ug/kg	1.61	6.42
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.42	ug/kg	1.93	6.42
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.424	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28 UJ,V7c
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.424	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.42	ug/kg	1.61	6.42
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.42	ug/kg	1.93	6.42
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-2121
 Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.1
 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	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.57	ug/kg	0.385	2.57
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.42	ug/kg	2.05	6.42 UJ,V7c
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7426	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 21:16	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:26	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b617.d	Column: DB-624	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.14	ug/kg	0.388	1.14 UJ,V7c
74-87-3	Chloromethane	U	1.14	ug/kg	0.343	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.343	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.343	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.343	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.343	1.14 UJ,V7c
67-64-1	Acetone	U	5.71	ug/kg	1.90	5.71
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
74-88-4	Iodomethane	U	5.71	ug/kg	1.83	5.71
75-09-2	Methylene chloride	U	5.71	ug/kg	2.28	5.71
75-15-0	Carbon disulfide	U	5.71	ug/kg	1.43	5.71
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.343	1.14
78-93-3	2-Butanone	U	5.71	ug/kg	1.71	5.71
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14 UJ,V7c
67-66-3	Chloroform	U	1.14	ug/kg	0.343	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.377	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.343	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.343	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.343	1.14 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.343	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.343	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.377	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.343	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.343	1.14
108-10-1	4-Methyl-2-pentanone	U	5.71	ug/kg	1.43	5.71
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.343	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.343	1.14
591-78-6	2-Hexanone	U	5.71	ug/kg	1.71	5.71
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.343	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.343	1.14
124-48-1	Dibromochloromethane	U	1.14	ug/kg	0.343	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.343	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.343	1.14

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7426	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 21:16	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:26	Allquot: 5 g	Final Volume: 5 mL
Data File: 7b617.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.14	ug/kg	0.343	1.14
179601-23-1	m,p-Xylenes	U	2.28	ug/kg	0.343	2.28
95-47-6	o-Xylene	U	1.14	ug/kg	0.343	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.343	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.343	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.343	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.343	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.343	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.343	1.14
108-67-8	1,3,5-Trimethylbenzene		5.69	ug/kg	0.343	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.343	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.343	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.343	1.14
99-87-6	4-Isopropyltoluene		3.64	ug/kg	0.343	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.343	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.343	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.71	ug/kg	1.83	5.71
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Hydrocarbon	19.54	139	ug/kg		J
	Unknown Hydrocarbon	19.65	139	ug/kg		J
	Unknown Hydrocarbon	19.96	748	ug/kg		J
	Unknown Hydrocarbon	20.33	8	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197012

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Allquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 29.7
 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	1.42	ug/kg	0.484	1.42
74-87-3	Chloromethane	U	1.42	ug/kg	0.427	1.42
75-01-4	Vinyl chloride	U	1.42	ug/kg	0.427	1.42
74-83-9	Bromomethane	U	1.42	ug/kg	0.427	1.42
75-00-3	Chloroethane	U	1.42	ug/kg	0.427	1.42
75-69-4	Trichlorofluoromethane	U	1.42	ug/kg	0.427	1.42
67-64-1	Acetone	U	7.11	ug/kg	2.36	7.11
75-35-4	1,1-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
74-88-4	Iodomethane	U	7.11	ug/kg	2.28	7.11
75-09-2	Methylene chloride	U	7.11	ug/kg	2.85	7.11
75-15-0	Carbon disulfide	U	7.11	ug/kg	1.78	7.11
156-60-5	trans-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
75-34-3	1,1-Dichloroethane	U	1.42	ug/kg	0.427	1.42
78-93-3	2-Butanone	U	7.11	ug/kg	2.13	7.11
156-59-2	cis-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
594-20-7	2,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
67-66-3	Chloroform	U	1.42	ug/kg	0.427	1.42
74-97-5	Bromochloromethane	U	1.42	ug/kg	0.469	1.42
71-55-6	1,1,1-Trichloroethane	U	1.42	ug/kg	0.427	1.42
563-58-6	1,1-Dichloropropene	U	1.42	ug/kg	0.427	1.42
56-23-5	Carbon tetrachloride	U	1.42	ug/kg	0.427	1.42
107-06-2	1,2-Dichloroethane	U	1.42	ug/kg	0.427	1.42 UJ,V7c
71-43-2	Benzene	U	1.42	ug/kg	0.427	1.42
79-01-6	Trichloroethylene	U	1.42	ug/kg	0.469	1.42
78-87-5	1,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
75-27-4	Bromodichloromethane	U	1.42	ug/kg	0.427	1.42
74-95-3	Dibromomethane	U	1.42	ug/kg	0.427	1.42
108-10-1	4-Methyl-2-pentanone	U	7.11	ug/kg	1.78	7.11
10061-01-5	cis-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
108-88-3	Toluene	U	1.42	ug/kg	0.427	1.42
10061-02-6	trans-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
79-00-5	1,1,2-Trichloroethane	U	1.42	ug/kg	0.427	1.42
591-78-6	2-Hexanone	U	7.11	ug/kg	2.13	7.11
142-28-9	1,3-Dichloropropane	U	1.42	ug/kg	0.427	1.42
127-18-4	Tetrachloroethylene	U	1.42	ug/kg	0.427	1.42
124-48-1	Dibromochloromethane	U	1.42	ug/kg	0.427	1.42
106-93-4	1,2-Dibromoethane	U	1.42	ug/kg	0.427	1.42
108-90-7	Chlorobenzene	U	1.42	ug/kg	0.427	1.42

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
Client ID: RE36-10-7429	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/07/2010 04:00	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:36	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b629.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	1.42	ug/kg	0.427	1.42
179601-23-1	m,p-Xylenes	U	2.85	ug/kg	0.427	2.85
95-47-6	o-Xylene	U	1.42	ug/kg	0.427	1.42
100-42-5	Styrene	U	1.42	ug/kg	0.427	1.42
75-25-2	Bromoform	U	1.42	ug/kg	0.427	1.42
79-34-5	1,1,2,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
96-18-4	1,2,3-Trichloropropane	U	1.42	ug/kg	0.427	1.42
108-86-1	Bromobenzene	U	1.42	ug/kg	0.427	1.42
103-65-1	n-Propylbenzene	U	1.42	ug/kg	0.427	1.42
95-49-8	2-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-82-8	Isopropylbenzene	U	1.42	ug/kg	0.427	1.42
108-67-8	1,3,5-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
106-43-4	4-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-06-6	tert-Butylbenzene	U	1.42	ug/kg	0.427	1.42
95-63-6	1,2,4-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
135-98-8	sec-Butylbenzene	U	1.42	ug/kg	0.427	1.42
99-87-6	4-Isopropyltoluene	U	1.42	ug/kg	0.427	1.42
541-73-1	1,3-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
106-46-7	1,4-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
104-51-8	n-Butylbenzene	U	1.42	ug/kg	0.427	1.42
96-12-8	1,2-Dibromo-3-chloropropane	U	1.42	ug/kg	0.427	1.42
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.11	ug/kg	2.28	7.11 UJ,V7c
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
95-50-1	1,2-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 18:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:46	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c215.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	J	2.68	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50 UJ,V7c
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
Client ID: RE36-10-7431	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/09/2010 18:00	Inst: VOA7.I	Dilution: 1
Prep Date: 03/09/2010 14:46	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7c215.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	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
Client ID: RE36-10-7432	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 21:50	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:28	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b618.d	Allquot: 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	1.16	ug/kg	0.394	1.16 UJ,V7c
74-87-3	Chloromethane	U	1.16	ug/kg	0.347	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.347	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.347	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.347	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.347	1.16 UJ,V7c
67-64-1	Acetone	U	5.79	ug/kg	1.92	5.79
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
74-88-4	Iodomethane	U	5.79	ug/kg	1.85	5.79
75-09-2	Methylene chloride	U	5.79	ug/kg	2.32	5.79
75-15-0	Carbon disulfide	U	5.79	ug/kg	1.45	5.79
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.347	1.16
78-93-3	2-Butanone	U	5.79	ug/kg	1.74	5.79
156-59-2	cis-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16 UJ,V7c
67-66-3	Chloroform	U	1.16	ug/kg	0.347	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.382	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.347	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.347	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.347	1.16 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.347	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.347	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.382	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.347	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.347	1.16
108-10-1	4-Methyl-2-pentanone	U	5.79	ug/kg	1.45	5.79
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.347	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.347	1.16
591-78-6	2-Hexanone	U	5.79	ug/kg	1.74	5.79
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.347	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.347	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.347	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.347	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.347	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Lab Sample ID: 248197008

Date Collected: 02/23/2010 12:00

Date Received: 02/26/2010 08:45

Matrix: R

%Moisture: 13.6

Client: LANL010

Method: SW846 8260B

Project: LANL01004

SOP Ref: GL-OA-E-038

Client ID: RE36-10-7432

Batch ID: 962059

Inst: VOA7.1

Dilution: 1

Run Date: 03/06/2010 21:50

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/05/2010 16:28

Allquot: 5 g

Final Volume: 5 mL

Data File: 7b618.d

Column: DB-624

Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.347	1.16
179601-23-1	m,p-Xylenes	U	2.32	ug/kg	0.347	2.32
95-47-6	o-Xylene	U	1.16	ug/kg	0.347	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.347	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.347	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.347	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.347	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.347	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.347	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.347	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.347	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.347	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.347	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.347	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	U	5.79	ug/kg	1.85	5.79
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16

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: 10-2121
 Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Allquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 28.6
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7433
 Batch ID: 962059
 Run Date: 03/09/2010 19:40
 Prep Date: 03/09/2010 14:52
 Data File: 7c218.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.40	ug/kg	0.476	1.40
74-87-3	Chloromethane	U	1.40	ug/kg	0.420	1.40
75-01-4	Vinyl chloride	U	1.40	ug/kg	0.420	1.40
74-83-9	Bromomethane	U	1.40	ug/kg	0.420	1.40
75-00-3	Chloroethane	U	1.40	ug/kg	0.420	1.40
75-69-4	Trichlorofluoromethane	U	1.40	ug/kg	0.420	1.40
67-64-1	Acetone	U	7.00	ug/kg	2.33	7.00
75-35-4	1,1-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
74-88-4	Iodomethane	U	7.00	ug/kg	2.24	7.00
75-09-2	Methylene chloride	U	7.00	ug/kg	2.80	7.00
75-15-0	Carbon disulfide	U	7.00	ug/kg	1.75	7.00 UJ,V7c
156-60-5	trans-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
75-34-3	1,1-Dichloroethane	U	1.40	ug/kg	0.420	1.40
78-93-3	2-Butanone	U	7.00	ug/kg	2.10	7.00
156-59-2	cis-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
594-20-7	2,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
67-66-3	Chloroform	U	1.40	ug/kg	0.420	1.40
74-97-5	Bromochloromethane	U	1.40	ug/kg	0.462	1.40
71-55-6	1,1,1-Trichloroethane	U	1.40	ug/kg	0.420	1.40
563-58-6	1,1-Dichloropropene	U	1.40	ug/kg	0.420	1.40
56-23-5	Carbon tetrachloride	U	1.40	ug/kg	0.420	1.40
107-06-2	1,2-Dichloroethane	U	1.40	ug/kg	0.420	1.40
71-43-2	Benzene	U	1.40	ug/kg	0.420	1.40
79-01-6	Trichloroethylene	U	1.40	ug/kg	0.462	1.40
78-87-5	1,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
75-27-4	Bromodichloromethane	U	1.40	ug/kg	0.420	1.40
74-95-3	Dibromomethane	U	1.40	ug/kg	0.420	1.40
108-10-1	4-Methyl-2-pentanone	U	7.00	ug/kg	1.75	7.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
108-88-3	Toluene	U	1.40	ug/kg	0.420	1.40
10061-02-6	trans-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
79-00-5	1,1,2-Trichloroethane	U	1.40	ug/kg	0.420	1.40
591-78-6	2-Hexanone	U	7.00	ug/kg	2.10	7.00
142-28-9	1,3-Dichloropropane	U	1.40	ug/kg	0.420	1.40
127-18-4	Tetrachloroethylene	U	1.40	ug/kg	0.420	1.40
124-48-1	Dibromochloromethane	U	1.40	ug/kg	0.420	1.40
106-93-4	1,2-Dibromoethane	U	1.40	ug/kg	0.420	1.40
108-90-7	Chlorobenzene	U	1.40	ug/kg	0.420	1.40

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 19:40	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:52	Allquot: 5 g	Final Volume: 5 mL
Data File: 7c218.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.40	ug/kg	0.420	1.40
179601-23-1	m,p-Xylenes	U	2.80	ug/kg	0.420	2.80
95-47-6	o-Xylene	U	1.40	ug/kg	0.420	1.40
100-42-5	Styrene	U	1.40	ug/kg	0.420	1.40
75-25-2	Bromoform	U	1.40	ug/kg	0.420	1.40
79-34-5	1,1,2,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
96-18-4	1,2,3-Trichloropropane	U	1.40	ug/kg	0.420	1.40
108-86-1	Bromobenzene	U	1.40	ug/kg	0.420	1.40
103-65-1	n-Propylbenzene	U	1.40	ug/kg	0.420	1.40
95-49-8	2-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-82-8	Isopropylbenzene	U	1.40	ug/kg	0.420	1.40
108-67-8	1,3,5-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
106-43-4	4-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-06-6	tert-Butylbenzene	U	1.40	ug/kg	0.420	1.40
95-63-6	1,2,4-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
135-98-8	sec-Butylbenzene	U	1.40	ug/kg	0.420	1.40
99-87-6	4-Isopropyltoluene	U	1.40	ug/kg	0.420	1.40
541-73-1	1,3-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
106-46-7	1,4-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
104-51-8	n-Butylbenzene	U	1.40	ug/kg	0.420	1.40
96-12-8	1,2-Dibromo-3-chloropropane	U	1.40	ug/kg	0.420	1.40
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.00	ug/kg	2.24	7.00
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
95-50-1	1,2-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40

Tentatively Identified Compound Summary

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

AMF
4/12/10

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 2

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Allquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.441	1.30 UJ,V7c
74-87-3	Chloromethane	U	1.30	ug/kg	0.389	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.389	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.389	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.389	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.389	1.30 UJ,V7c
67-64-1	Acetone	U	6.48	ug/kg	2.15	6.48
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
74-88-4	Iodomethane	U	6.48	ug/kg	2.07	6.48
75-09-2	Methylene chloride	U	6.48	ug/kg	2.59	6.48
75-15-0	Carbon disulfide	U	6.48	ug/kg	1.62	6.48
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.389	1.30
78-93-3	2-Butanone	U	6.48	ug/kg	1.94	6.48
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30 UJ,V7c
67-66-3	Chloroform	U	1.30	ug/kg	0.389	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.428	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.389	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.389	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.389	1.30 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.389	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.389	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.428	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.389	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.389	1.30
108-10-1	4-Methyl-2-pentanone	U	6.48	ug/kg	1.62	6.48
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.389	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.389	1.30
591-78-6	2-Hexanone	U	6.48	ug/kg	1.94	6.48
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.389	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.389	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.389	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.389	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.389	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.1
Analyst: AXO1
Allquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 22.9
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
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.389	1.30
179601-23-1	m,p-Xylenes	U	2.59	ug/kg	0.389	2.59
95-47-6	o-Xylene	U	1.30	ug/kg	0.389	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.389	1.30
75-25-2	Bromoforn	U	1.30	ug/kg	0.389	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.389	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.389	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.389	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.389	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.389	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.389	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.389	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.389	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.389	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.48	ug/kg	2.07	6.48
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	9.4	15.4	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
Client ID: RE36-10-7516	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 20:09	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:22	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b615.d	Allquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.22	ug/kg	0.415	1.22 UJ,V7c
74-87-3	Chloromethane	U	1.22	ug/kg	0.366	1.22
75-01-4	Vinyl chloride	U	1.22	ug/kg	0.366	1.22
74-83-9	Bromomethane	U	1.22	ug/kg	0.366	1.22
75-00-3	Chloroethane	U	1.22	ug/kg	0.366	1.22
75-69-4	Trichlorofluoromethane	U	1.22	ug/kg	0.366	1.22 UJ,V7c
67-64-1	Acetone	U	6.10	ug/kg	2.03	6.10
75-35-4	1,1-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
74-88-4	Iodomethane	U	6.10	ug/kg	1.95	6.10
75-09-2	Methylene chloride	U	6.10	ug/kg	2.44	6.10
75-15-0	Carbon disulfide	U	6.10	ug/kg	1.53	6.10
156-60-5	trans-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
75-34-3	1,1-Dichloroethane	U	1.22	ug/kg	0.366	1.22
78-93-3	2-Butanone	U	6.10	ug/kg	1.83	6.10
156-59-2	cis-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
594-20-7	2,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22 UJ,V7c
67-66-3	Chloroform	U	1.22	ug/kg	0.366	1.22
74-97-5	Bromochloromethane	U	1.22	ug/kg	0.403	1.22
71-55-6	1,1,1-Trichloroethane	U	1.22	ug/kg	0.366	1.22
563-58-6	1,1-Dichloropropene	U	1.22	ug/kg	0.366	1.22
56-23-5	Carbon tetrachloride	U	1.22	ug/kg	0.366	1.22 UJ,V7c
107-06-2	1,2-Dichloroethane	U	1.22	ug/kg	0.366	1.22
71-43-2	Benzene	U	1.22	ug/kg	0.366	1.22
79-01-6	Trichloroethylene	U	1.22	ug/kg	0.403	1.22
78-87-5	1,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22
75-27-4	Bromodichloromethane	U	1.22	ug/kg	0.366	1.22
74-95-3	Dibromomethane	U	1.22	ug/kg	0.366	1.22
108-10-1	4-Methyl-2-pentanone	U	6.10	ug/kg	1.53	6.10
10061-01-5	cis-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
108-88-3	Toluene	U	1.22	ug/kg	0.366	1.22
10061-02-6	trans-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
79-00-5	1,1,2-Trichloroethane	U	1.22	ug/kg	0.366	1.22
591-78-6	2-Hexanone	U	6.10	ug/kg	1.83	6.10
142-28-9	1,3-Dichloropropane	U	1.22	ug/kg	0.366	1.22
127-18-4	Tetrachloroethylene	U	1.22	ug/kg	0.366	1.22
124-48-1	Dibromochloromethane	U	1.22	ug/kg	0.366	1.22
106-93-4	1,2-Dibromoethane	U	1.22	ug/kg	0.366	1.22
108-90-7	Chlorobenzene	U	1.22	ug/kg	0.366	1.22

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
Client ID: RE36-10-7516	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 20:09	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:22	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b615.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	1.22	ug/kg	0.366	1.22
179601-23-1	m,p-Xylenes	U	2.44	ug/kg	0.366	2.44
95-47-6	o-Xylene	U	1.22	ug/kg	0.366	1.22
100-42-5	Styrene	U	1.22	ug/kg	0.366	1.22
75-25-2	Bromoform	U	1.22	ug/kg	0.366	1.22
79-34-5	1,1,2,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
96-18-4	1,2,3-Trichloropropane	U	1.22	ug/kg	0.366	1.22
108-86-1	Bromobenzene	U	1.22	ug/kg	0.366	1.22
103-65-1	n-Propylbenzene	U	1.22	ug/kg	0.366	1.22
95-49-8	2-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-82-8	Isopropylbenzene	U	1.22	ug/kg	0.366	1.22
108-67-8	1,3,5-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
106-43-4	4-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-06-6	tert-Butylbenzene	U	1.22	ug/kg	0.366	1.22
95-63-6	1,2,4-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
135-98-8	sec-Butylbenzene	U	1.22	ug/kg	0.366	1.22
99-87-6	4-Isopropyltoluene	U	1.22	ug/kg	0.366	1.22
541-73-1	1,3-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
106-46-7	1,4-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
104-51-8	n-Butylbenzene	U	1.22	ug/kg	0.366	1.22
96-12-8	1,2-Dibromo-3-chloropropane	U	1.22	ug/kg	0.366	1.22
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.10	ug/kg	1.95	6.10
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
95-50-1	1,2-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22

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: 10-2121
 Lab Sample ID: 248197006

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

Client ID: RE36-10-7540
 Batch ID: 962059
 Run Date: 03/06/2010 20:42
 Prep Date: 03/05/2010 16:24
 Data File: 7b616.d

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 UJ,V7c
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 UJ,V7c
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 UJ,V7c
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: 10-2121
 Lab Sample ID: 248197006

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45

Matrix: R

Client ID: RE36-10-7540
 Batch ID: 962059
 Run Date: 03/06/2010 20:42
 Prep Date: 03/05/2010 16:24
 Data File: 7b616.d

Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 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
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				ug/kg		


AMF
 4/12/10

DATA VALIDATION COVER SHEET	
5115-1 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 


Section I.			
REQUEST NUMBER:	10-2121	VALIDATION DATE:	4/12/10
		LAB CODE:	GEL
CONTRACT LABORATORY NAME: GEL Laboratories LLC			
VALIDATOR:	Allison Felix	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
<input checked="" type="checkbox"/> OTHER (DESCRIBE): SVOCs			

Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. TICS MASS SPECTRA
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):							
1. Sample RE36-10-7425 was diluted and re-analyzed for pyrene and benzo(b)fluoranthene, and sample -7431 was diluted and re-analyzed for pyrene; phenanthrene; and fluoranthene due to the raw values > the high calibration standards in the original analyses. The diluted analyses were designated by the "DL" suffixes. The noted analytes were not reported from the original analyses, and only the noted analytes were reported from the dilutions. No sample results were qualified.							
2. The ICV %Ds for pyridine and hexachlorocyclopentadiene were >20%. In the CCVs associated with all samples except -7434, the %Ds for benzoic acid and 3-nitroaniline were >20%. The benzoic acid result for sample -7433 was a detect and, thus, was qualified J,SV7c. All other associated sample results were NDs and, thus, were qualified UJ,SV7c.							
3. The %Rs for all surrogates <u>except</u> 2,4,6-tribromophenol were > the laboratory UALs in sample -7425DL. The %Rs for all surrogates were > the laboratory UALs in sample -7431DL. The noted samples were dilutions. No sample results were qualified, based on professional judgment.							
4. The MS %R for di-N-octylphthalate was > the laboratory UAL. It should be noted that the MS/MSD analyses were performed on a LANL sample from another RN and that the raw data for the parent sample was not included in the data package. No sample results were qualified.							
Reviewed by: ETM				Level: 1		Date: 4/13/10	


DATA VALIDATION COVER SHEET	
5115-1 Data Validation Cover Sheet	Records Use only  <small>EST. 1945</small>
VALIDATOR'S SIGNATURE: <u>Allison Gelfi</u> DATE: <u>4/12/10</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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, SV9	J-, SV9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, SV9a	J-, SV9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, SV9b	R, SV9b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The instrument performance sample did not pass method acceptance criteria.	R, SV16	R, SV16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, SV16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, SV16c	R, SV16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, SV7	J, SV7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, SV7a	J, SV7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or Continuing Calibration Verification (CCV).	R, SV7b	J, SV7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. The Initial Calibration Verification (ICV) and/or CCV were recovered outside the method-specific limits.	UJ, SV7c	J, SV7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, SV7d	J, SV7d

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

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

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

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

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, SV12a	J-, SV12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV12c	R, SV12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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
<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: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
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	1550	ug/kg	309	1550
108-95-2	Phenol	U	1550	ug/kg	309	1550
95-57-8	2-Chlorophenol	U	1550	ug/kg	309	1550
106-46-7	1,4-Dichlorobenzene	U	1550	ug/kg	309	1550
621-64-7	N-Nitrosodipropylamine	U	1550	ug/kg	309	1550
59-50-7	4-Chloro-3-methylphenol	U	1550	ug/kg	309	1550
83-32-9	Acenaphthene	U	155	ug/kg	51.0	155
121-14-2	2,4-Dinitrotoluene	U	1550	ug/kg	155	1550
100-02-7	4-Nitrophenol	U	1550	ug/kg	510	1550
87-86-5	Pentachlorophenol	U	1550	ug/kg	386	1550
129-00-0	Pyrene		412	ug/kg	46.4	155
110-86-1	Pyridine	U	1550	ug/kg	309	1550 UJ,SV7c
62-53-3	Aniline	U	1550	ug/kg	464	1550
111-44-4	bis(2-Chloroethyl) ether	U	1550	ug/kg	309	1550
541-73-1	1,3-Dichlorobenzene	U	1550	ug/kg	309	1550
100-51-6	Benzyl alcohol	U	1550	ug/kg	464	1550
95-50-1	1,2-Dichlorobenzene	U	1550	ug/kg	309	1550
108-60-1	bis(2-Chloroisopropyl)ether	U	1550	ug/kg	309	1550
95-48-7	o-Cresol	U	1550	ug/kg	309	1550
65794-96-9	m,p-Cresols	U	1550	ug/kg	464	1550
67-72-1	Hexachloroethane	U	1550	ug/kg	309	1550
98-95-3	Nitrobenzene	U	1550	ug/kg	309	1550
78-59-1	Isophorone	U	1550	ug/kg	309	1550
88-75-5	2-Nitrophenol	U	1550	ug/kg	309	1550
105-67-9	2,4-Dimethylphenol	U	1550	ug/kg	541	1550
111-91-1	bis(2-Chloroethoxy)methane	U	1550	ug/kg	309	1550
120-83-2	2,4-Dichlorophenol	U	1550	ug/kg	309	1550
65-85-0	Benzoic acid	U	3090	ug/kg	773	3090 UJ,SV7c
91-20-3	Naphthalene	U	155	ug/kg	46.4	155
106-47-8	4-Chloroaniline	U	1550	ug/kg	309	1550
87-68-3	Hexachlorobutadiene	U	1550	ug/kg	309	1550
91-57-6	2-Methylnaphthalene	U	155	ug/kg	30.9	155
77-47-4	Hexachlorocyclopentadiene	U	1550	ug/kg	309	1550 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	1550	ug/kg	309	1550
95-95-4	2,4,5-Trichlorophenol	U	1550	ug/kg	309	1550
91-58-7	2-Chloronaphthalene	U	155	ug/kg	51.0	155
88-74-4	2-Nitroaniline	U	1550	ug/kg	309	1550
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1550	ug/kg	309	1550 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Allquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
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	1550	ug/kg	309	1550
606-20-2	2,6-Dinitrotoluene	U	1550	ug/kg	155	1550
208-96-8	Acenaphthylene	U	155	ug/kg	46.4	155
51-28-5	2,4-Dinitrophenol	U	3090	ug/kg	587	3090
132-64-9	Dibenzofuran	U	1550	ug/kg	309	1550
84-66-2	Diethylphthalate	U	1550	ug/kg	309	1550
86-73-7	Fluorene	U	155	ug/kg	46.4	155
7005-72-3	4-Chlorophenylphenylether	U	1550	ug/kg	309	1550
534-52-1	2-Methyl-4,6-dinitrophenol	U	1550	ug/kg	309	1550
100-01-6	4-Nitroaniline	U	1550	ug/kg	464	1550
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1550	ug/kg	309	1550
122-66-7	Azobenzene	U	1550	ug/kg	309	1550
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1550	ug/kg	309	1550
118-74-1	Hexachlorobenzene	U	1550	ug/kg	309	1550
85-01-8	Phenanthrene		265	ug/kg	46.4	155
120-12-7	Anthracene	J	48.4	ug/kg	30.9	155
84-74-2	Di-n-butylphthalate	U	1550	ug/kg	309	1550
206-44-0	Fluoranthene		411	ug/kg	46.4	155
85-68-7	Butylbenzylphthalate	U	1550	ug/kg	309	1550
56-55-3	Benzo(a)anthracene		242	ug/kg	46.4	155
91-94-1	3,3'-Dichlorobenzidine	U	1550	ug/kg	464	1550
218-01-9	Chrysene		267	ug/kg	46.4	155
117-81-7	bis(2-Ethylhexyl)phthalate	U	1550	ug/kg	309	1550
117-84-0	Di-n-octylphthalate	U	1550	ug/kg	309	1550
205-99-2	Benzo(b)fluoranthene		705	ug/kg	46.4	155
207-08-9	Benzo(k)fluoranthene	U	155	ug/kg	46.4	155
50-32-8	Benzo(a)pyrene		234	ug/kg	46.4	155
193-39-5	Indeno(1,2,3-cd)pyrene		157	ug/kg	46.4	155
53-70-3	Dibenzo(a,h)anthracene	U	155	ug/kg	46.4	155
191-24-2	Benzo(ghi)perylene	J	153	ug/kg	46.4	155
120-82-1	1,2,4-Trichlorobenzene	U	1550	ug/kg	309	1550

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.83	690	ug/kg		J
	Unknown	8	1260	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 15:58	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Allquot: 30.13 g	Final Volume: 1 mL
Data File: s3c1316.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	8.43	1620	ug/kg		J
	Unknown	8.54	810	ug/kg		J
	Unknown	9.66	4340	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1000	ug/kg	91	NJ
1058-61-3	Stigmast-4-en-3-one	11.96	799	ug/kg	93	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197004

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 11.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	753	ug/kg	151	753
108-95-2	Phenol	U	753	ug/kg	151	753
95-57-8	2-Chlorophenol	U	753	ug/kg	151	753
106-46-7	1,4-Dichlorobenzene	U	753	ug/kg	151	753
621-64-7	N-Nitrosodipropylamine	U	753	ug/kg	151	753
59-50-7	4-Chloro-3-methylphenol	U	753	ug/kg	151	753
83-32-9	Acenaphthene	U	75.3	ug/kg	24.8	75.3
121-14-2	2,4-Dinitrotoluene	U	753	ug/kg	75.3	753
100-02-7	4-Nitrophenol	U	753	ug/kg	248	753
87-86-5	Pentachlorophenol	U	753	ug/kg	188	753
129-00-0	Pyrene		379	ug/kg	22.6	75.3
110-86-1	Pyridine	U	753	ug/kg	151	753 UJ,SV7c
62-53-3	Aniline	U	753	ug/kg	226	753
111-44-4	bis(2-Chloroethyl) ether	U	753	ug/kg	151	753
541-73-1	1,3-Dichlorobenzene	U	753	ug/kg	151	753
100-51-6	Benzyl alcohol	U	753	ug/kg	226	753
95-50-1	1,2-Dichlorobenzene	U	753	ug/kg	151	753
108-60-1	bis(2-Chloroisopropyl)ether	U	753	ug/kg	151	753
95-48-7	o-Cresol	U	753	ug/kg	151	753
65794-96-9	m,p-Cresols	U	753	ug/kg	226	753
67-72-1	Hexachloroethane	U	753	ug/kg	151	753
98-95-3	Nitrobenzene	U	753	ug/kg	151	753
78-59-1	Isophorone	U	753	ug/kg	151	753
88-75-5	2-Nitrophenol	U	753	ug/kg	151	753
105-67-9	2,4-Dimethylphenol	U	753	ug/kg	263	753
111-91-1	bis(2-Chloroethoxy)methane	U	753	ug/kg	151	753
120-83-2	2,4-Dichlorophenol	U	753	ug/kg	151	753
65-85-0	Benzoic acid	U	1510	ug/kg	376	1510 UJ,SV7c
91-20-3	Naphthalene	U	75.3	ug/kg	22.6	75.3
106-47-8	4-Chloroaniline	U	753	ug/kg	151	753
87-68-3	Hexachlorobutadiene	U	753	ug/kg	151	753
91-57-6	2-Methylnaphthalene	U	75.3	ug/kg	15.1	75.3
77-47-4	Hexachlorocyclopentadiene	U	753	ug/kg	151	753 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	753	ug/kg	151	753
95-95-4	2,4,5-Trichlorophenol	U	753	ug/kg	151	753
91-58-7	2-Chloronaphthalene	U	75.3	ug/kg	24.8	75.3
88-74-4	2-Nitroaniline	U	753	ug/kg	151	753
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	753	ug/kg	151	753 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 16:36	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1318.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	753	ug/kg	151	753
606-20-2	2,6-Dinitrotoluene	U	753	ug/kg	75.3	753
208-96-8	Acenaphthylene	U	75.3	ug/kg	22.6	75.3
51-28-5	2,4-Dinitrophenol	U	1510	ug/kg	286	1510
132-64-9	Dibenzofuran	U	753	ug/kg	151	753
84-66-2	Diethylphthalate	U	753	ug/kg	151	753
86-73-7	Fluorene	U	75.3	ug/kg	22.6	75.3
7005-72-3	4-Chlorophenylphenylether	U	753	ug/kg	151	753
534-52-1	2-Methyl-4,6-dinitrophenol	U	753	ug/kg	151	753
100-01-6	4-Nitroaniline	U	753	ug/kg	226	753
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	753	ug/kg	151	753
122-66-7	Azobenzene	U	753	ug/kg	151	753
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	753	ug/kg	151	753
118-74-1	Hexachlorobenzene	U	753	ug/kg	151	753
85-01-8	Phenanthrene		252	ug/kg	22.6	75.3
120-12-7	Anthracene	J	42.0	ug/kg	15.1	75.3
84-74-2	Di-n-butylphthalate	U	753	ug/kg	151	753
206-44-0	Fluoranthene		362	ug/kg	22.6	75.3
85-68-7	Butylbenzylphthalate	U	753	ug/kg	151	753
56-55-3	Benzo(a)anthracene		190	ug/kg	22.6	75.3
91-94-1	3,3'-Dichlorobenzidine	U	753	ug/kg	226	753
218-01-9	Chrysene		208	ug/kg	22.6	75.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	753	ug/kg	151	753
117-84-0	Di-n-octylphthalate	U	753	ug/kg	151	753
205-99-2	Benzo(b)fluoranthene		414	ug/kg	22.6	75.3
207-08-9	Benzo(k)fluoranthene	U	75.3	ug/kg	22.6	75.3
50-32-8	Benzo(a)pyrene		194	ug/kg	22.6	75.3
193-39-5	Indeno(1,2,3-cd)pyrene		117	ug/kg	22.6	75.3
53-70-3	Dibenzo(a,h)anthracene	U	75.3	ug/kg	22.6	75.3
191-24-2	Benzo(ghi)perylene		123	ug/kg	22.6	75.3
120-82-1	1,2,4-Trichlorobenzene	U	753	ug/kg	151	753

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.52	342	ug/kg		JA
	Unknown	6.93	345	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
Client ID: RE36-10-7404	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 16:36	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1318.d	Aliquot: 30.17 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	7.83	316	ug/kg		J
	Unknown	8	413	ug/kg		J
	Unknown	8.43	1870	ug/kg		J
	Unknown	8.85	1500	ug/kg		J
112-95-8	Eicosane	8.93	822	ug/kg	93	NJ
	Unknown	9.66	2670	ug/kg		J
	Unknown	10.44	1030	ug/kg		J
	Unknown	10.71	622	ug/kg		J
83-46-5	.beta.-Sitosterol	11.07	939	ug/kg	93	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	663	ug/kg	84	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197001

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 17.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	805	ug/kg	161	805
108-95-2	Phenol	U	805	ug/kg	161	805
95-57-8	2-Chlorophenol	U	805	ug/kg	161	805
106-46-7	1,4-Dichlorobenzene	U	805	ug/kg	161	805
621-64-7	N-Nitrosodipropylamine	U	805	ug/kg	161	805
59-50-7	4-Chloro-3-methylphenol	U	805	ug/kg	161	805
83-32-9	Acenaphthene	U	80.5	ug/kg	26.6	80.5
121-14-2	2,4-Dinitrotoluene	U	805	ug/kg	80.5	805
100-02-7	4-Nitrophenol	U	805	ug/kg	266	805
87-86-5	Pentachlorophenol	U	805	ug/kg	201	805
129-00-0	Pyrene	J	50.8	ug/kg	24.1	80.5
110-86-1	Pyridine	U	805	ug/kg	161	805 UJ,SV7c
62-53-3	Aniline	U	805	ug/kg	241	805
111-44-4	bis(2-Chloroethyl) ether	U	805	ug/kg	161	805
541-73-1	1,3-Dichlorobenzene	U	805	ug/kg	161	805
100-51-6	Benzyl alcohol	U	805	ug/kg	241	805
95-50-1	1,2-Dichlorobenzene	U	805	ug/kg	161	805
108-60-1	bis(2-Chloroisopropyl)ether	U	805	ug/kg	161	805
95-48-7	o-Cresol	U	805	ug/kg	161	805
65794-96-9	m,p-Cresols	U	805	ug/kg	241	805
67-72-1	Hexachloroethane	U	805	ug/kg	161	805
98-95-3	Nitrobenzene	U	805	ug/kg	161	805
78-59-1	Isophorone	U	805	ug/kg	161	805
88-75-5	2-Nitrophenol	U	805	ug/kg	161	805
105-67-9	2,4-Dimethylphenol	U	805	ug/kg	282	805
111-91-1	bis(2-Chloroethoxy)methane	U	805	ug/kg	161	805
120-83-2	2,4-Dichlorophenol	U	805	ug/kg	161	805
65-85-0	Benzoic acid	U	1610	ug/kg	402	1610 UJ,SV7c
91-20-3	Naphthalene	U	80.5	ug/kg	24.1	80.5
106-47-8	4-Chloroaniline	U	805	ug/kg	161	805
87-68-3	Hexachlorobutadiene	U	805	ug/kg	161	805
91-57-6	2-Methylnaphthalene	U	80.5	ug/kg	16.1	80.5
77-47-4	Hexachlorocyclopentadiene	U	805	ug/kg	161	805 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	805	ug/kg	161	805
95-95-4	2,4,5-Trichlorophenol	U	805	ug/kg	161	805
91-58-7	2-Chloronaphthalene	U	80.5	ug/kg	26.6	80.5
88-74-4	2-Nitroaniline	U	805	ug/kg	161	805
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	805	ug/kg	161	805 UJ,SV7c

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 15:38	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1315.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	805	ug/kg	161	805
606-20-2	2,6-Dinitrotoluene	U	805	ug/kg	80.5	805
208-96-8	Acenaphthylene	U	80.5	ug/kg	24.1	80.5
51-28-5	2,4-Dinitrophenol	U	1610	ug/kg	306	1610
132-64-9	Dibenzofuran	U	805	ug/kg	161	805
84-66-2	Diethylphthalate	U	805	ug/kg	161	805
86-73-7	Fluorene	U	80.5	ug/kg	24.1	80.5
7005-72-3	4-Chlorophenylphenylether	U	805	ug/kg	161	805
534-52-1	2-Methyl-4,6-dinitrophenol	U	805	ug/kg	161	805
100-01-6	4-Nitroaniline	U	805	ug/kg	241	805
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	805	ug/kg	161	805
122-66-7	Azobenzene	U	805	ug/kg	161	805
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	805	ug/kg	161	805
118-74-1	Hexachlorobenzene	U	805	ug/kg	161	805
85-01-8	Phenanthrene	J	27.2	ug/kg	24.1	80.5
120-12-7	Anthracene	U	80.5	ug/kg	16.1	80.5
84-74-2	Di-n-butylphthalate	U	805	ug/kg	161	805
206-44-0	Fluoranthene	J	49.7	ug/kg	24.1	80.5
85-68-7	Butylbenzylphthalate	U	805	ug/kg	161	805
56-55-3	Benzo(a)anthracene	J	41.6	ug/kg	24.1	80.5
91-94-1	3,3'-Dichlorobenzidine	U	805	ug/kg	241	805
218-01-9	Chrysene	J	33.7	ug/kg	24.1	80.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	805	ug/kg	161	805
117-84-0	Di-n-octylphthalate	U	805	ug/kg	161	805
205-99-2	Benzo(b)fluoranthene	J	77.2	ug/kg	24.1	80.5
207-08-9	Benzo(k)fluoranthene	U	80.5	ug/kg	24.1	80.5
50-32-8	Benzo(a)pyrene	J	34.8	ug/kg	24.1	80.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	80.5	ug/kg	24.1	80.5
53-70-3	Dibenzo(a,h)anthracene	U	80.5	ug/kg	24.1	80.5
191-24-2	Benzo(ghi)perylene	U	80.5	ug/kg	24.1	80.5
120-82-1	1,2,4-Trichlorobenzene	U	805	ug/kg	161	805

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	559	ug/kg		J
301-02-0	9-Octadecenamamide, (Z)-	7.78	443	ug/kg	90	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client ID: RE36-10-7405	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 15:38	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1315.d	Allquot: 30.12 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
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	478	ug/kg	95	NJ
6971-40-0	17-Pentatriacontene	8.01	999	ug/kg	92	NJ
55255-85-1	Cyclopentane, 1,1'-[3-(2-cyclopentylethy	8.44	1450	ug/kg	87	NJ
	Unknown	8.66	775	ug/kg		J
112-95-8	Eicosane	8.93	1100	ug/kg	95	NJ
	Unknown	9.67	2080	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	720	ug/kg	91	NJ
	Unknown	11.46	855	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Allquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7406
Batch ID: 960459
Run Date: 03/13/2010 16:17
Prep Date: 03/03/2010 23:09
Data File: s3c1317.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	742	ug/kg	148	742
108-95-2	Phenol	U	742	ug/kg	148	742
95-57-8	2-Chlorophenol	U	742	ug/kg	148	742
106-46-7	1,4-Dichlorobenzene	U	742	ug/kg	148	742
621-64-7	N-Nitrosodipropylamine	U	742	ug/kg	148	742
59-50-7	4-Chloro-3-methylphenol	U	742	ug/kg	148	742
83-32-9	Acenaphthene	U	74.2	ug/kg	24.5	74.2
121-14-2	2,4-Dinitrotoluene	U	742	ug/kg	74.2	742
100-02-7	4-Nitrophenol	U	742	ug/kg	245	742
87-86-5	Pentachlorophenol	U	742	ug/kg	186	742
129-00-0	Pyrene	U	74.2	ug/kg	22.3	74.2
110-86-1	Pyridine	U	742	ug/kg	148	742 UJ,SV7c
62-53-3	Aniline	U	742	ug/kg	223	742
111-44-4	bis(2-Chloroethyl) ether	U	742	ug/kg	148	742
541-73-1	1,3-Dichlorobenzene	U	742	ug/kg	148	742
100-51-6	Benzyl alcohol	U	742	ug/kg	223	742
95-50-1	1,2-Dichlorobenzene	U	742	ug/kg	148	742
108-60-1	bis(2-Chloroisopropyl) ether	U	742	ug/kg	148	742
95-48-7	o-Cresol	U	742	ug/kg	148	742
65794-96-9	m,p-Cresols	U	742	ug/kg	223	742
67-72-1	Hexachloroethane	U	742	ug/kg	148	742
98-95-3	Nitrobenzene	U	742	ug/kg	148	742
78-59-1	Isophorone	U	742	ug/kg	148	742
88-75-5	2-Nitrophenol	U	742	ug/kg	148	742
105-67-9	2,4-Dimethylphenol	U	742	ug/kg	260	742
111-91-1	bis(2-Chloroethoxy)methane	U	742	ug/kg	148	742
120-83-2	2,4-Dichlorophenol	U	742	ug/kg	148	742
65-85-0	Benzoic acid	U	1480	ug/kg	371	1480 UJ,SV7c
91-20-3	Naphthalene	U	74.2	ug/kg	22.3	74.2
106-47-8	4-Chloroaniline	U	742	ug/kg	148	742
87-68-3	Hexachlorobutadiene	U	742	ug/kg	148	742
91-57-6	2-Methylnaphthalene	U	74.2	ug/kg	14.8	74.2
77-47-4	Hexachlorocyclopentadiene	U	742	ug/kg	148	742 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	742	ug/kg	148	742
95-95-4	2,4,5-Trichlorophenol	U	742	ug/kg	148	742
91-58-7	2-Chloronaphthalene	U	74.2	ug/kg	24.5	74.2
88-74-4	2-Nitroaniline	U	742	ug/kg	148	742
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	742	ug/kg	148	742 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7406
Batch ID: 960459
Run Date: 03/13/2010 16:17
Prep Date: 03/03/2010 23:09
Data File: s3c1317.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	742	ug/kg	148	742
606-20-2	2,6-Dinitrotoluene	U	742	ug/kg	74.2	742
208-96-8	Acenaphthylene	U	74.2	ug/kg	22.3	74.2
51-28-5	2,4-Dinitrophenol	U	1480	ug/kg	282	1480
132-64-9	Dibenzofuran	U	742	ug/kg	148	742
84-66-2	Diethylphthalate	U	742	ug/kg	148	742
86-73-7	Fluorene	U	74.2	ug/kg	22.3	74.2
7005-72-3	4-Chlorophenylphenylether	U	742	ug/kg	148	742
534-52-1	2-Methyl-4,6-dinitrophenol	U	742	ug/kg	148	742
100-01-6	4-Nitroaniline	U	742	ug/kg	223	742
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	742	ug/kg	148	742
122-66-7	Azobenzene	U	742	ug/kg	148	742
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	742	ug/kg	148	742
118-74-1	Hexachlorobenzene	U	742	ug/kg	148	742
85-01-8	Phenanthrene	U	74.2	ug/kg	22.3	74.2
120-12-7	Anthracene	U	74.2	ug/kg	14.8	74.2
84-74-2	Di-n-butylphthalate	U	742	ug/kg	148	742
206-44-0	Fluoranthene	U	74.2	ug/kg	22.3	74.2
85-68-7	Butylbenzylphthalate	U	742	ug/kg	148	742
56-55-3	Benzo(a)anthracene	U	74.2	ug/kg	22.3	74.2
91-94-1	3,3'-Dichlorobenzidine	U	742	ug/kg	223	742
218-01-9	Chrysene	U	74.2	ug/kg	22.3	74.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	742	ug/kg	148	742
117-84-0	Di-n-octylphthalate	U	742	ug/kg	148	742
205-99-2	Benzo(b)fluoranthene	U	74.2	ug/kg	22.3	74.2
207-08-9	Benzo(k)fluoranthene	U	74.2	ug/kg	22.3	74.2
50-32-8	Benzo(a)pyrene	U	74.2	ug/kg	22.3	74.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	74.2	ug/kg	22.3	74.2
53-70-3	Dibenzo(a,h)anthracene	U	74.2	ug/kg	22.3	74.2
191-24-2	Benzo(ghi)perylene	U	74.2	ug/kg	22.3	74.2
120-82-1	1,2,4-Trichlorobenzene	U	742	ug/kg	148	742

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	348	ug/kg		J
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	350	ug/kg	95	NJ

Semi-Volatile
Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197003Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MSMatrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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
	Unknown	7.82	470	ug/kg		J
1599-67-3	1-Docosene	8.01	937	ug/kg	90	NJ
	Unknown	8.43	1470	ug/kg		J
	Unknown	8.68	781	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1690	ug/kg	96	NJ
	Unknown	11.32	509	ug/kg		J
	Unknown	11.45	756	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7425
Batch ID: 960459
Run Date: 03/13/2010 22:04
Prep Date: 03/03/2010 23:09
Data File: s3c1335.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	853	ug/kg	171	853
108-95-2	Phenol	U	853	ug/kg	171	853
95-57-8	2-Chlorophenol	U	853	ug/kg	171	853
106-46-7	1,4-Dichlorobenzene	U	853	ug/kg	171	853
621-64-7	N-Nitrosodipropylamine	U	853	ug/kg	171	853
59-50-7	4-Chloro-3-methylphenol	U	853	ug/kg	171	853
83-32-9	Acenaphthene	J	35.3	ug/kg	28.1	85.3
121-14-2	2,4-Dinitrotoluene	U	853	ug/kg	85.3	853
100-02-7	4-Nitrophenol	U	853	ug/kg	281	853
87-86-5	Pentachlorophenol	U	853	ug/kg	213	853
110-86-1	Pyridine	U	853	ug/kg	171	853 UJ,SV7c
62-53-3	Aniline	U	853	ug/kg	256	853
111-44-4	bis(2-Chloroethyl) ether	U	853	ug/kg	171	853
541-73-1	1,3-Dichlorobenzene	U	853	ug/kg	171	853
100-51-6	Benzyl alcohol	U	853	ug/kg	256	853
95-50-1	1,2-Dichlorobenzene	U	853	ug/kg	171	853
108-60-1	bis(2-Chloroisopropyl)ether	U	853	ug/kg	171	853
95-48-7	o-Cresol	U	853	ug/kg	171	853
65794-96-9	m,p-Cresols	U	853	ug/kg	256	853
67-72-1	Hexachloroethane	U	853	ug/kg	171	853
98-95-3	Nitrobenzene	U	853	ug/kg	171	853
78-59-1	Isophorone	U	853	ug/kg	171	853
88-75-5	2-Nitrophenol	U	853	ug/kg	171	853
105-67-9	2,4-Dimethylphenol	U	853	ug/kg	298	853
111-91-1	bis(2-Chloroethoxy)methane	U	853	ug/kg	171	853
120-83-2	2,4-Dichlorophenol	U	853	ug/kg	171	853
65-85-0	Benzoic acid	U	1710	ug/kg	426	1710 UJ,SV7c
91-20-3	Naphthalene	J	66.1	ug/kg	25.6	85.3
106-47-8	4-Chloroaniline	U	853	ug/kg	171	853
87-68-3	Hexachlorobutadiene	U	853	ug/kg	171	853
91-57-6	2-Methylnaphthalene	J	23.5	ug/kg	17.1	85.3
77-47-4	Hexachlorocyclopentadiene	U	853	ug/kg	171	853 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	853	ug/kg	171	853
95-95-4	2,4,5-Trichlorophenol	U	853	ug/kg	171	853
91-58-7	2-Chloronaphthalene	U	85.3	ug/kg	28.1	85.3
88-74-4	2-Nitroaniline	U	853	ug/kg	171	853
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	853	ug/kg	171	853 UJ,SV7c
	<i>m</i> -Nitroaniline					

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 22:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1335.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	853	ug/kg	171	853
606-20-2	2,6-Dinitrotoluene	U	853	ug/kg	85.3	853
208-96-8	Acenaphthylene	U	85.3	ug/kg	25.6	85.3
51-28-5	2,4-Dinitrophenol	U	1710	ug/kg	324	1710
132-64-9	Dibenzofuran	U	853	ug/kg	171	853
84-66-2	Diethylphthalate	U	853	ug/kg	171	853
86-73-7	Fluorene	J	60.5	ug/kg	25.6	85.3
7005-72-3	4-Chlorophenylphenylether	U	853	ug/kg	171	853
534-52-1	2-Methyl-4,6-dinitrophenol	U	853	ug/kg	171	853
100-01-6	4-Nitroaniline	U	853	ug/kg	256	853
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	853	ug/kg	171	853
122-66-7	Azobenzene	U	853	ug/kg	171	853
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	853	ug/kg	171	853
118-74-1	Hexachlorobenzene	U	853	ug/kg	171	853
85-01-8	Phenanthrene		1170	ug/kg	25.6	85.3
120-12-7	Anthracene		709	ug/kg	17.1	85.3
84-74-2	Di-n-butylphthalate	U	853	ug/kg	171	853
206-44-0	Fluoranthene		8250	ug/kg	25.6	85.3
85-68-7	Butylbenzylphthalate	U	853	ug/kg	171	853
56-55-3	Benzo(a)anthracene		6250	ug/kg	25.6	85.3
91-94-1	3,3'-Dichlorobenzidine	U	853	ug/kg	256	853
218-01-9	Chrysene		6760	ug/kg	25.6	85.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	853	ug/kg	171	853
117-84-0	Di-n-octylphthalate	U	853	ug/kg	171	853
207-08-9	Benzo(k)fluoranthene	U	85.3	ug/kg	25.6	85.3
50-32-8	Benzo(a)pyrene		6520	ug/kg	25.6	85.3
193-39-5	Indeno(1,2,3-cd)pyrene		2730	ug/kg	25.6	85.3
53-70-3	Dibenzo(a,h)anthracene	U	85.3	ug/kg	25.6	85.3
191-24-2	Benzo(ghi)perylene		2720	ug/kg	25.6	85.3
120-82-1	1,2,4-Trichlorobenzene	U	853	ug/kg	171	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2531-84-2	Phenanthrene, 2-methyl-	6.91	888	ug/kg	98	NJ
	Unknown	6.97	1440	ug/kg		J
2789-88-0	di-p-Tolylacetylene	7.22	839	ug/kg	93	NJ
	Unknown	7.26	814	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 22:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1335.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
2381-21-7	Pyrene, 1-methyl-	7.58	628	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	1150	ug/kg	96	NJ
	Unknown	7.68	974	ug/kg		J
	Unknown	7.71	1010	ug/kg		J
	Unknown	7.76	461	ug/kg		J
	Unknown	7.78	584	ug/kg		J
64401-21-4	Pyrene, 1,3-dimethyl-	7.88	818	ug/kg	83	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	851	ug/kg	96	NJ
195-19-7	Benzo[c]phenanthrene	8.02	1030	ug/kg	90	NJ
	Unknown	8.05	683	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	656	ug/kg	97	NJ
	Unknown	8.25	640	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	707	ug/kg	95	NJ
3351-28-8	Chrysene, 1-methyl-	8.43	522	ug/kg	97	NJ
	Unknown	8.51	775	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.54	818	ug/kg	89	NJ
198-55-0	Perylene	9.24	3620	ug/kg	99	NJ
	Unknown	9.74	2260	ug/kg		J
1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,	10.12	4380	ug/kg	97	NJ
213-46-7	1,2:7,8-Dibenzophenanthrene	10.81	2350	ug/kg	99	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Allquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 20
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
129-00-0	Pyrene		19100	ug/kg	256	853
205-99-2	Benzo(b)fluoranthene		17800	ug/kg	256	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2381-21-7	Pyrene, 1-methyl-	7.64	4500	ug/kg	97	NJ
3442-78-2	Pyrene, 2-methyl-	7.71	3700	ug/kg	97	NJ
	Unknown	7.78	3540	ug/kg		J
195-19-7	Benzo[c]phenanthrene	8.02	4090	ug/kg	86	NJ
	Unknown	8.04	3680	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.53	4300	ug/kg	89	NJ
198-55-0	Perylene	9.22	8020	ug/kg	99	NJ
	Unknown	10.18	7560	ug/kg		J

AMF
4/12/10

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

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.11 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 12.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7426
Batch ID: 960459
Run Date: 03/13/2010 17:15
Prep Date: 03/03/2010 23:09
Data File: s3c1320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1520	ug/kg	303	1520
108-95-2	Phenol	U	1520	ug/kg	303	1520
95-57-8	2-Chlorophenol	U	1520	ug/kg	303	1520
106-46-7	1,4-Dichlorobenzene	U	1520	ug/kg	303	1520
621-64-7	N-Nitrosodipropylamine	U	1520	ug/kg	303	1520
59-50-7	4-Chloro-3-methylphenol	U	1520	ug/kg	303	1520
83-32-9	Acenaphthene	U	152	ug/kg	50.1	152
121-14-2	2,4-Dinitrotoluene	U	1520	ug/kg	152	1520
100-02-7	4-Nitrophenol	U	1520	ug/kg	501	1520
87-86-5	Pentachlorophenol	U	1520	ug/kg	379	1520
129-00-0	Pyrene		2710	ug/kg	45.5	152
110-86-1	Pyridine	U	1520	ug/kg	303	1520 UJ,SV7c
62-53-3	Aniline	U	1520	ug/kg	455	1520
111-44-4	bis(2-Chloroethyl) ether	U	1520	ug/kg	303	1520
541-73-1	1,3-Dichlorobenzene	U	1520	ug/kg	303	1520
100-51-6	Benzyl alcohol	U	1520	ug/kg	455	1520
95-50-1	1,2-Dichlorobenzene	U	1520	ug/kg	303	1520
108-60-1	bis(2-Chloroisopropyl) ether	U	1520	ug/kg	303	1520
95-48-7	o-Cresol	U	1520	ug/kg	303	1520
65794-96-9	m,p-Cresols	U	1520	ug/kg	455	1520
67-72-1	Hexachloroethane	U	1520	ug/kg	303	1520
98-95-3	Nitrobenzene	U	1520	ug/kg	303	1520
78-59-1	Isophorone	U	1520	ug/kg	303	1520
88-75-5	2-Nitrophenol	U	1520	ug/kg	303	1520
105-67-9	2,4-Dimethylphenol	U	1520	ug/kg	531	1520
111-91-1	bis(2-Chloroethoxy)methane	U	1520	ug/kg	303	1520
120-83-2	2,4-Dichlorophenol	U	1520	ug/kg	303	1520
65-85-0	Benzoic acid	U	3030	ug/kg	759	3030 UJ,SV7c
91-20-3	Naphthalene	U	152	ug/kg	45.5	152
106-47-8	4-Chloroaniline	U	1520	ug/kg	303	1520
87-68-3	Hexachlorobutadiene	U	1520	ug/kg	303	1520
91-57-6	2-Methylnaphthalene	U	152	ug/kg	30.3	152
77-47-4	Hexachlorocyclopentadiene	U	1520	ug/kg	303	1520 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	1520	ug/kg	303	1520
95-95-4	2,4,5-Trichlorophenol	U	1520	ug/kg	303	1520
91-58-7	2-Chloronaphthalene	U	152	ug/kg	50.1	152
88-74-4	2-Nitroaniline	U	1520	ug/kg	303	1520
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1520	ug/kg	303	1520 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7426	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 17:15	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.11 g	Final Volume: 1 mL
Data File: s3c1320.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	1520	ug/kg	303	1520
606-20-2	2,6-Dinitrotoluene	U	1520	ug/kg	152	1520
208-96-8	Acenaphthylene	U	152	ug/kg	45.5	152
51-28-5	2,4-Dinitrophenol	U	3030	ug/kg	577	3030
132-64-9	Dibenzofuran	U	1520	ug/kg	303	1520
84-66-2	Diethylphthalate	U	1520	ug/kg	303	1520
86-73-7	Fluorene	U	152	ug/kg	45.5	152
7005-72-3	4-Chlorophenylphenylether	U	1520	ug/kg	303	1520
534-52-1	2-Methyl-4,6-dinitrophenol	U	1520	ug/kg	303	1520
100-01-6	4-Nitroaniline	U	1520	ug/kg	455	1520
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1520	ug/kg	303	1520
122-66-7	Azobenzene	U	1520	ug/kg	303	1520
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1520	ug/kg	303	1520
118-74-1	Hexachlorobenzene	U	1520	ug/kg	303	1520
85-01-8	Phenanthrene		278	ug/kg	45.5	152
120-12-7	Anthracene		171	ug/kg	30.3	152
84-74-2	Di-n-butylphthalate	U	1520	ug/kg	303	1520
206-44-0	Fluoranthene		2020	ug/kg	45.5	152
85-68-7	Butylbenzylphthalate	U	1520	ug/kg	303	1520
56-55-3	Benzo(a)anthracene		1610	ug/kg	45.5	152
91-94-1	3,3'-Dichlorobenzidine	U	1520	ug/kg	455	1520
218-01-9	Chrysene		1480	ug/kg	45.5	152
117-81-7	bis(2-Ethylhexyl)phthalate	U	1520	ug/kg	303	1520
117-84-0	Di-n-octylphthalate	U	1520	ug/kg	303	1520
205-99-2	Benzo(b)fluoranthene		2530	ug/kg	45.5	152
207-08-9	Benzo(k)fluoranthene	U	152	ug/kg	45.5	152
50-32-8	Benzo(a)pyrene		1510	ug/kg	45.5	152
193-39-5	Indeno(1,2,3-cd)pyrene		628	ug/kg	45.5	152
53-70-3	Dibenzo(a,h)anthracene	U	152	ug/kg	45.5	152
191-24-2	Benzo(ghi)perylene		623	ug/kg	45.5	152
120-82-1	1,2,4-Trichlorobenzene	U	1520	ug/kg	303	1520

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R-.alpha.-Pinene	3.05	2010	ug/kg	98	NJ
79-92-5	Camphene	3.15	988	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
Client ID: RE36-10-7426	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 17:15	Inst: MSD3.I	Dilution: 4
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1320.d	Allquot: 30.11 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
123-35-3	.beta.-Myrcene	3.29	2020	ug/kg	91	NJ
4230-32-4	Bicyclo[2.2.1]heptane-2,5-dione, 1,7,7-t	4.66	792	ug/kg	91	NJ
	Unknown	5.24	873	ug/kg		J
	Unknown	6.89	1020	ug/kg		J
	Unknown	6.98	1160	ug/kg		J
	Unknown	8.01	981	ug/kg		J
3351-32-4	Chrysene, 2-methyl-	8.43	1210	ug/kg	94	NJ
	Unknown	10.67	1850	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	3090	ug/kg	93	NJ
	Unknown	11.27	1360	ug/kg		J
	Unknown	11.4	6910	ug/kg		J
	Unknown	11.49	1660	ug/kg		J
469-38-5	9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	11.69	2690	ug/kg	83	NJ
	Unknown	11.8	2790	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197012

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.18 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 29.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualfler	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	943	ug/kg	189	943
108-95-2	Phenol	U	943	ug/kg	189	943
95-57-8	2-Chlorophenol	U	943	ug/kg	189	943
106-46-7	1,4-Dichlorobenzene	U	943	ug/kg	189	943
621-64-7	N-Nitrosodipropylamine	U	943	ug/kg	189	943
59-50-7	4-Chloro-3-methylphenol	U	943	ug/kg	189	943
83-32-9	Acenaphthene	U	94.3	ug/kg	31.1	94.3
121-14-2	2,4-Dinitrotoluene	U	943	ug/kg	94.3	943
100-02-7	4-Nitrophenol	U	943	ug/kg	311	943
87-86-5	Pentachlorophenol	U	943	ug/kg	236	943
129-00-0	Pyrene	J	77.5	ug/kg	28.3	94.3
110-86-1	Pyridine	U	943	ug/kg	189	943 UJ,SV7c
62-53-3	Aniline	U	943	ug/kg	283	943
111-44-4	bis(2-Chloroethyl) ether	U	943	ug/kg	189	943
541-73-1	1,3-Dichlorobenzene	U	943	ug/kg	189	943
100-51-6	Benzyl alcohol	U	943	ug/kg	283	943
95-50-1	1,2-Dichlorobenzene	U	943	ug/kg	189	943
108-60-1	bis(2-Chloroisopropyl)ether	U	943	ug/kg	189	943
95-48-7	o-Cresol	U	943	ug/kg	189	943
65794-96-9	m,p-Cresols	U	943	ug/kg	283	943
67-72-1	Hexachloroethane	U	943	ug/kg	189	943
98-95-3	Nitrobenzene	U	943	ug/kg	189	943
78-59-1	Isophorone	U	943	ug/kg	189	943
88-75-5	2-Nitrophenol	U	943	ug/kg	189	943
105-67-9	2,4-Dimethylphenol	U	943	ug/kg	330	943
111-91-1	bis(2-Chloroethoxy)methane	U	943	ug/kg	189	943
120-83-2	2,4-Dichlorophenol	U	943	ug/kg	189	943
65-85-0	Benzoic acid	U	1890	ug/kg	471	1890 UJ,SV7c
91-20-3	Naphthalene	U	94.3	ug/kg	28.3	94.3
106-47-8	4-Chloroaniline	U	943	ug/kg	189	943
87-68-3	Hexachlorobutadiene	U	943	ug/kg	189	943
91-57-6	2-Methylnaphthalene	U	94.3	ug/kg	18.9	94.3
77-47-4	Hexachlorocyclopentadiene	U	943	ug/kg	189	943 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	943	ug/kg	189	943
95-95-4	2,4,5-Trichlorophenol	U	943	ug/kg	189	943
91-58-7	2-Chloronaphthalene	U	94.3	ug/kg	31.1	94.3
88-74-4	2-Nitroaniline	U	943	ug/kg	189	943
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	943	ug/kg	189	943 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:13	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Allquot: 30.18 g	Final Volume: 1 mL
Data File: s3c1323.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	943	ug/kg	189	943
606-20-2	2,6-Dinitrotoluene	U	943	ug/kg	94.3	943
208-96-8	Acenaphthylene	U	94.3	ug/kg	28.3	94.3
51-28-5	2,4-Dinitrophenol	U	1890	ug/kg	358	1890
132-64-9	Dibenzofuran	U	943	ug/kg	189	943
84-66-2	Diethylphthalate	U	943	ug/kg	189	943
86-73-7	Fluorene	U	94.3	ug/kg	28.3	94.3
7005-72-3	4-Chlorophenylphenylether	U	943	ug/kg	189	943
534-52-1	2-Methyl-4,6-dinitrophenol	U	943	ug/kg	189	943
100-01-6	4-Nitroaniline	U	943	ug/kg	283	943
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	943	ug/kg	189	943
122-66-7	Azobenzene	U	943	ug/kg	189	943
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	943	ug/kg	189	943
118-74-1	Hexachlorobenzene	U	943	ug/kg	189	943
85-01-8	Phenanthrene	J	52.4	ug/kg	28.3	94.3
120-12-7	Anthracene	U	94.3	ug/kg	18.9	94.3
84-74-2	Di-n-butylphthalate	U	943	ug/kg	189	943
206-44-0	Fluoranthene	J	74.9	ug/kg	28.3	94.3
85-68-7	Butylbenzylphthalate	U	943	ug/kg	189	943
56-55-3	Benzo(a)anthracene	J	48.8	ug/kg	28.3	94.3
91-94-1	3,3'-Dichlorobenzidine	U	943	ug/kg	283	943
218-01-9	Chrysene	J	39.4	ug/kg	28.3	94.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	943	ug/kg	189	943
117-84-0	Di-n-octylphthalate	U	943	ug/kg	189	943
205-99-2	Benzo(b)fluoranthene	J	74.0	ug/kg	28.3	94.3
207-08-9	Benzo(k)fluoranthene	U	94.3	ug/kg	28.3	94.3
50-32-8	Benzo(a)pyrene	J	37.1	ug/kg	28.3	94.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	94.3	ug/kg	28.3	94.3
53-70-3	Dibenzo(a,h)anthracene	U	94.3	ug/kg	28.3	94.3
191-24-2	Benzo(ghi)perylene	U	94.3	ug/kg	28.3	94.3
120-82-1	1,2,4-Trichlorobenzene	U	943	ug/kg	189	943

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	7.61	929	ug/kg	99	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	885	ug/kg	98	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197012

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.18 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 29.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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
77899-03-7	1-Heneicosyl formate	8.01	1420	ug/kg	90	NJ
110936-78-2	7-Oxodehydroabietic acid, methyl ester	8.3	808	ug/kg	92	NJ
1599-67-3	1-Docosene	8.43	2330	ug/kg	97	NJ
112-95-8	Eicosane	8.93	839	ug/kg	96	NJ
	Unknown	9.4	845	ug/kg		J
	Unknown	9.67	1060	ug/kg		J
57-87-4	Ergosterol	10.45	2060	ug/kg	96	NJ
83-47-6	.gamma.-Sitosterol	11.08	5500	ug/kg	95	NJ
	Unknown	11.27	1810	ug/kg		J
	Unknown	11.39	1770	ug/kg		J
	Unknown	11.5	4370	ug/kg		J
	Unknown	11.81	2100	ug/kg		J
1058-61-3	Stigmast-4-en-3-one	11.98	1890	ug/kg	91	NJ
	Unknown	12.49	811	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Allquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7431
Batch ID: 960459
Run Date: 03/13/2010 21:07
Prep Date: 03/03/2010 23:09
Data File: a3c1332.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1730	ug/kg	346	1730
108-95-2	Phenol	U	1730	ug/kg	346	1730
95-57-8	2-Chlorophenol	U	1730	ug/kg	346	1730
106-46-7	1,4-Dichlorobenzene	U	1730	ug/kg	346	1730
621-64-7	N-Nitrosodipropylamine	U	1730	ug/kg	346	1730
59-50-7	4-Chloro-3-methylphenol	U	1730	ug/kg	346	1730
83-32-9	Acenaphthene		3430	ug/kg	57.0	173
121-14-2	2,4-Dinitrotoluene	U	1730	ug/kg	173	1730
100-02-7	4-Nitrophenol	U	1730	ug/kg	570	1730
87-86-5	Pentachlorophenol	U	1730	ug/kg	432	1730
110-86-1	Pyridine	U	1730	ug/kg	346	1730 UJ,SV7c
62-53-3	Aniline	U	1730	ug/kg	518	1730
111-44-4	bis(2-Chloroethyl) ether	U	1730	ug/kg	346	1730
541-73-1	1,3-Dichlorobenzene	U	1730	ug/kg	346	1730
100-51-6	Benzyl alcohol	U	1730	ug/kg	518	1730
95-50-1	1,2-Dichlorobenzene	U	1730	ug/kg	346	1730
108-60-1	bis(2-Chloroisopropyl)ether	U	1730	ug/kg	346	1730
95-48-7	o-Cresol	U	1730	ug/kg	346	1730
65794-96-9	m,p-Cresols	U	1730	ug/kg	518	1730
67-72-1	Hexachloroethane	U	1730	ug/kg	346	1730
98-95-3	Nitrobenzene	U	1730	ug/kg	346	1730
78-59-1	Isophorone	U	1730	ug/kg	346	1730
88-75-5	2-Nitrophenol	U	1730	ug/kg	346	1730
105-67-9	2,4-Dimethylphenol	U	1730	ug/kg	605	1730
111-91-1	bis(2-Chloroethoxy)methane	U	1730	ug/kg	346	1730
120-83-2	2,4-Dichlorophenol	U	1730	ug/kg	346	1730
65-85-0	Benzoic acid	U	3460	ug/kg	864	3460 UJ,SV7c
91-20-3	Naphthalene		2670	ug/kg	51.8	173
106-47-8	4-Chloroaniline	U	1730	ug/kg	346	1730
87-68-3	Hexachlorobutadiene	U	1730	ug/kg	346	1730
91-57-6	2-Methylnaphthalene		1300	ug/kg	34.6	173
77-47-4	Hexachlorocyclopentadiene	U	1730	ug/kg	346	1730 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	1730	ug/kg	346	1730
95-95-4	2,4,5-Trichlorophenol	U	1730	ug/kg	346	1730
91-58-7	2-Chloronaphthalene	U	173	ug/kg	57.0	173
88-74-4	2-Nitroaniline	U	1730	ug/kg	346	1730
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1730	ug/kg	346	1730 UJ,SV7c
	<i>m</i> -Nitroaniline					

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	1730	ug/kg	346	1730
606-20-2	2,6-Dinitrotoluene	U	1730	ug/kg	173	1730
208-96-8	Acenaphthylene	J	63.8	ug/kg	51.8	173
51-28-5	2,4-Dinitrophenol	U	3460	ug/kg	657	3460
132-64-9	Dibenzofuran		2940	ug/kg	346	1730
84-66-2	Diethylphthalate	U	1730	ug/kg	346	1730
86-73-7	Fluorene		4000	ug/kg	51.8	173
7005-72-3	4-Chlorophenylphenylether	U	1730	ug/kg	346	1730
534-52-1	2-Methyl-4,6-dinitrophenol	U	1730	ug/kg	346	1730
100-01-6	4-Nitroaniline	U	1730	ug/kg	518	1730
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1730	ug/kg	346	1730
122-66-7	Azobenzene	U	1730	ug/kg	346	1730
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1730	ug/kg	346	1730
118-74-1	Hexachlorobenzene	U	1730	ug/kg	346	1730
120-12-7	Anthracene		5030	ug/kg	34.6	173
84-74-2	Di-n-butylphthalate	J	377	ug/kg	346	1730
85-68-7	Butylbenzylphthalate	U	1730	ug/kg	346	1730
56-55-3	Benzo(a)anthracene		11400	ug/kg	51.8	173
91-94-1	3,3'-Dichlorobenzidine	U	1730	ug/kg	518	1730
218-01-9	Chrysene		12300	ug/kg	51.8	173
117-81-7	bis(2-Ethylhexyl)phthalate	J	436	ug/kg	346	1730
117-84-0	Di-n-octylphthalate	U	1730	ug/kg	346	1730
205-99-2	Benzo(b)fluoranthene		19600	ug/kg	51.8	173
207-08-9	Benzo(k)fluoranthene	U	173	ug/kg	51.8	173
50-32-8	Benzo(a)pyrene		10100	ug/kg	51.8	173
193-39-5	Indeno(1,2,3-cd)pyrene		4650	ug/kg	51.8	173
53-70-3	Dibenzo(a,h)anthracene	U	173	ug/kg	51.8	173
191-24-2	Benzo(ghi)perylene		4880	ug/kg	51.8	173
120-82-1	1,2,4-Trichlorobenzene	U	1730	ug/kg	346	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
244-99-5	5H-Indeno[1,2-b]pyridine	6.73	807	ug/kg	96	NJ
	Unknown	6.98	1330	ug/kg		J
84-65-1	9,10-Anthracenedione	7.1	1040	ug/kg	98	NJ
2381-21-7	Pyrene, 1-methyl-	7.58	1450	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	2610	ug/kg	96	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 21:07	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1332.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	Flt	Qual
	Unknown	7.68	1350	ug/kg		J
3442-78-2	Pyrene, 2-methyl-	7.71	2320	ug/kg	95	NJ
	Unknown	7.78	1170	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	1700	ug/kg	97	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	1250	ug/kg	97	NJ
239-01-0	11H-Benzo[a]carbazole	8.32	1450	ug/kg	80	NJ
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	1380	ug/kg	86	NJ
1482-93-5	Cyclohexane, hexaethylidene-	8.54	1560	ug/kg	90	NJ
	Unknown	8.85	6360	ug/kg		J
629-92-5	Nonadecane	8.93	3670	ug/kg	95	NJ
198-55-0	Perylene	9.24	5200	ug/kg	99	NJ
112-95-8	Eicosane	9.61	3800	ug/kg	97	NJ

AMF
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Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431DL	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 40
Run Date: 03/13/2010 20:47	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Allquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1331.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
129-00-0	Pyrene		75600	ug/kg	518	1730
85-01-8	Phenanthrene		85700	ug/kg	518	1730
206-44-0	Fluoranthene		79800	ug/kg	518	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
238-84-6	11H-Benzo[a]fluorene	7.64	6950	ug/kg	97	NJ
	Unknown	8.85	14000	ug/kg		J
198-55-0	Perylene	9.23	14100	ug/kg	99	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197008

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.16 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 13.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	768	ug/kg	154	768
108-95-2	Phenol	U	768	ug/kg	154	768
95-57-8	2-Chlorophenol	U	768	ug/kg	154	768
106-46-7	1,4-Dichlorobenzene	U	768	ug/kg	154	768
621-64-7	N-Nitrosodipropylamine	U	768	ug/kg	154	768
59-50-7	4-Chloro-3-methylphenol	U	768	ug/kg	154	768
83-32-9	Acenaphthene		563	ug/kg	25.3	76.8
121-14-2	2,4-Dinitrotoluene	U	768	ug/kg	76.8	768
100-02-7	4-Nitrophenol	U	768	ug/kg	253	768
87-86-5	Pentachlorophenol	U	768	ug/kg	192	768
129-00-0	Pyrene		5340	ug/kg	23.0	76.8
110-86-1	Pyridine	U	768	ug/kg	154	768 UJ,SV7c
62-53-3	Aniline	U	768	ug/kg	230	768
111-44-4	bis(2-Chloroethyl) ether	U	768	ug/kg	154	768
541-73-1	1,3-Dichlorobenzene	U	768	ug/kg	154	768
100-51-6	Benzyl alcohol	U	768	ug/kg	230	768
95-50-1	1,2-Dichlorobenzene	U	768	ug/kg	154	768
108-60-1	bis(2-Chloroisopropyl)ether	U	768	ug/kg	154	768
95-48-7	o-Cresol	U	768	ug/kg	154	768
65794-96-9	m,p-Cresols	U	768	ug/kg	230	768
67-72-1	Hexachloroethane	U	768	ug/kg	154	768
98-95-3	Nitrobenzene	U	768	ug/kg	154	768
78-59-1	Isophorone	U	768	ug/kg	154	768
88-75-5	2-Nitrophenol	U	768	ug/kg	154	768
105-67-9	2,4-Dimethylphenol	U	768	ug/kg	269	768
111-91-1	bis(2-Chloroethoxy)methane	U	768	ug/kg	154	768
120-83-2	2,4-Dichlorophenol	U	768	ug/kg	154	768
65-85-0	Benzoic acid	U	1540	ug/kg	384	1540 UJ,SV7c
91-20-3	Naphthalene		277	ug/kg	23.0	76.8
106-47-8	4-Chloroaniline	U	768	ug/kg	154	768
87-68-3	Hexachlorobutadiene	U	768	ug/kg	154	768
91-57-6	2-Methylnaphthalene		153	ug/kg	15.4	76.8
77-47-4	Hexachlorocyclopentadiene	U	768	ug/kg	154	768 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	768	ug/kg	154	768
95-95-4	2,4,5-Trichlorophenol	U	768	ug/kg	154	768
91-58-7	2-Chloronaphthalene	U	76.8	ug/kg	25.3	76.8
88-74-4	2-Nitroaniline	U	768	ug/kg	154	768
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	768	ug/kg	154	768 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197008

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.16 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 13.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	768	ug/kg	154	768
606-20-2	2,6-Dinitrotoluene	U	768	ug/kg	76.8	768
208-96-8	Acenaphthylene	U	76.8	ug/kg	23.0	76.8
51-28-5	2,4-Dinitrophenol	U	1540	ug/kg	292	1540
132-64-9	Dibenzofuran	J	404	ug/kg	154	768
84-66-2	Diethylphthalate	U	768	ug/kg	154	768
86-73-7	Fluorene		627	ug/kg	23.0	76.8
7005-72-3	4-Chlorophenylphenylether	U	768	ug/kg	154	768
534-52-1	2-Methyl-4,6-dinitrophenol	U	768	ug/kg	154	768
100-01-6	4-Nitroaniline	U	768	ug/kg	230	768
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	768	ug/kg	154	768
122-66-7	Azobenzene	U	768	ug/kg	154	768
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	768	ug/kg	154	768
118-74-1	Hexachlorobenzene	U	768	ug/kg	154	768
85-01-8	Phenanthrene		5580	ug/kg	23.0	76.8
120-12-7	Anthracene		958	ug/kg	15.4	76.8
84-74-2	Di-n-butylphthalate	J	193	ug/kg	154	768
206-44-0	Fluoranthene		5880	ug/kg	23.0	76.8
85-68-7	Butylbenzylphthalate	U	768	ug/kg	154	768
56-55-3	Benzo(a)anthracene		2550	ug/kg	23.0	76.8
91-94-1	3,3'-Dichlorobenzidine	U	768	ug/kg	230	768
218-01-9	Chrysene		2350	ug/kg	23.0	76.8
117-81-7	bis(2-Ethylhexyl)phthalate	J	178	ug/kg	154	768
117-84-0	Di-n-octylphthalate	U	768	ug/kg	154	768
205-99-2	Benzo(b)fluoranthene		4120	ug/kg	23.0	76.8
207-08-9	Benzo(k)fluoranthene	U	76.8	ug/kg	23.0	76.8
50-32-8	Benzo(a)pyrene		2080	ug/kg	23.0	76.8
193-39-5	Indeno(1,2,3-cd)pyrene		810	ug/kg	23.0	76.8
53-70-3	Dibenzo(a,h)anthracene	U	76.8	ug/kg	23.0	76.8
191-24-2	Benzo(ghi)perylene		802	ug/kg	23.0	76.8
120-82-1	1,2,4-Trichlorobenzene	U	768	ug/kg	154	768

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	6.97	443	ug/kg		J
238-84-6	11H-Benzo[a]fluorene	7.65	508	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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
3442-78-2	Pyrene, 2-methyl-	7.71	361	ug/kg	95	NJ
2381-21-7	Pyrene, 1-methyl-	7.78	316	ug/kg	93	NJ
243-46-9	Benzo[b]naphtho[2,3-d]thiophene	8.01	439	ug/kg	93	NJ
3351-32-4	Chrysene, 2-methyl-	8.43	496	ug/kg	97	NJ
	Unknown	8.85	3330	ug/kg		J
198-55-0	Perylene	9.23	1720	ug/kg	99	NJ
38651-65-9	Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl	9.67	1080	ug/kg	89	NJ

AMF
4/12/10

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.2 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 28.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	928	ug/kg	186	928
108-95-2	Phenol	U	928	ug/kg	186	928
95-57-8	2-Chlorophenol	U	928	ug/kg	186	928
106-46-7	1,4-Dichlorobenzene	U	928	ug/kg	186	928
621-64-7	N-Nitrosodipropylamine	U	928	ug/kg	186	928
59-50-7	4-Chloro-3-methylphenol	U	928	ug/kg	186	928
83-32-9	Acenaphthene	J	61.3	ug/kg	30.6	92.8
121-14-2	2,4-Dinitrotoluene	U	928	ug/kg	92.8	928
100-02-7	4-Nitrophenol	U	928	ug/kg	306	928
87-86-5	Pentachlorophenol	U	928	ug/kg	232	928
129-00-0	Pyrene		737	ug/kg	27.8	92.8
110-86-1	Pyridine	U	928	ug/kg	186	928 UJ,SV7c
62-53-3	Aniline	U	928	ug/kg	278	928
111-44-4	bis(2-Chloroethyl) ether	U	928	ug/kg	186	928
541-73-1	1,3-Dichlorobenzene	U	928	ug/kg	186	928
100-51-6	Benzyl alcohol	U	928	ug/kg	278	928
95-50-1	1,2-Dichlorobenzene	U	928	ug/kg	186	928
108-60-1	bis(2-Chloroisopropyl)ether	U	928	ug/kg	186	928
95-48-7	o-Cresol	U	928	ug/kg	186	928
65794-96-9	m,p-Cresols	U	928	ug/kg	278	928
67-72-1	Hexachloroethane	U	928	ug/kg	186	928
98-95-3	Nitrobenzene	U	928	ug/kg	186	928
78-59-1	Isophorone	U	928	ug/kg	186	928
88-75-5	2-Nitrophenol	U	928	ug/kg	186	928
105-67-9	2,4-Dimethylphenol	U	928	ug/kg	325	928
111-91-1	bis(2-Chloroethoxy)methane	U	928	ug/kg	186	928
120-83-2	2,4-Dichlorophenol	U	928	ug/kg	186	928
65-85-0	Benzoic acid	J	1560	ug/kg	464	1860 J,SV7c
91-20-3	Naphthalene	U	92.8	ug/kg	27.8	92.8
106-47-8	4-Chloroaniline	U	928	ug/kg	186	928
87-68-3	Hexachlorobutadiene	U	928	ug/kg	186	928
91-57-6	2-Methylnaphthalene	U	92.8	ug/kg	18.6	92.8
77-47-4	Hexachlorocyclopentadiene	U	928	ug/kg	186	928 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	928	ug/kg	186	928
95-95-4	2,4,5-Trichlorophenol	U	928	ug/kg	186	928
91-58-7	2-Chloronaphthalene	U	92.8	ug/kg	30.6	92.8
88-74-4	2-Nitroaniline	U	928	ug/kg	186	928
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	928	ug/kg	186	928 UJ,SV7c

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
Client ID: RE36-10-7433	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 18:32	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1324.d	Aliquot: 30.2 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	928	ug/kg	186	928
208-96-8	2,6-Dinitrotoluene	U	928	ug/kg	92.8	928
51-28-5	Acenaphthylene	U	92.8	ug/kg	27.8	92.8
132-64-9	2,4-Dinitrophenol	U	1860	ug/kg	353	1860
84-66-2	Dibenzofuran	U	928	ug/kg	186	928
86-73-7	Diethylphthalate	U	928	ug/kg	186	928
7005-72-3	Fluorene	J	50.7	ug/kg	27.8	92.8
534-52-1	4-Chlorophenylphenylether	U	928	ug/kg	186	928
100-01-6	2-Methyl-4,6-dinitrophenol	U	928	ug/kg	186	928
122-39-4	4-Nitroaniline	U	928	ug/kg	278	928
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	928	ug/kg	186	928
118-74-1	Azobenzene	U	928	ug/kg	186	928
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	928	ug/kg	186	928
84-74-2	Hexachlorobenzene	U	928	ug/kg	186	928
206-44-0	Phenanthrene		522	ug/kg	27.8	92.8
85-68-7	Anthracene	J	88.9	ug/kg	18.6	92.8
56-55-3	Di-n-butylphthalate	J	403	ug/kg	186	928
91-94-1	Fluoranthene		617	ug/kg	27.8	92.8
218-01-9	Butylbenzylphthalate	U	928	ug/kg	186	928
117-81-7	Benzo(a)anthracene		297	ug/kg	27.8	92.8
117-84-0	3,3'-Dichlorobenzidine	U	928	ug/kg	278	928
205-99-2	Chrysene		290	ug/kg	27.8	92.8
207-08-9	bis(2-Ethylhexyl)phthalate	U	928	ug/kg	186	928
50-32-8	Di-n-octylphthalate	U	928	ug/kg	186	928
193-39-5	Benzo(b)fluoranthene		517	ug/kg	27.8	92.8
53-70-3	Benzo(k)fluoranthene	U	92.8	ug/kg	27.8	92.8
191-24-2	Benzo(a)pyrene		263	ug/kg	27.8	92.8
120-82-1	Indeno(1,2,3-cd)pyrene		130	ug/kg	27.8	92.8
	Dibenzo(a,h)anthracene	U	92.8	ug/kg	27.8	92.8
	Benzo(ghi)perylene		134	ug/kg	27.8	92.8
	1,2,4-Trichlorobenzene	U	928	ug/kg	186	928

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	2.77	5940	ug/kg		J
559-74-0	Friedelan-3-one	7.13	5580	ug/kg	87	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
Client ID: RE36-10-7433	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 18:32	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1324.d	Aliquot: 30.2 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmaame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.17	2080	ug/kg		J
	Unknown	7.19	2580	ug/kg		J
	Unknown	7.41	444	ug/kg		J
25269-17-4	Thunbergol	7.62	813	ug/kg	91	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	1100	ug/kg	94	NJ
661-19-8	1-Docosanol	8.01	1810	ug/kg	94	NJ
	Unknown	8.28	607	ug/kg		J
661-19-8	1-Docosanol	8.43	3040	ug/kg	99	NJ
112-95-8	Eicosane	8.65	544	ug/kg	93	J
75581-03-2	2,6,10,14,18-Pentamethyl-2,6,10,14,18-ei	8.72	1180	ug/kg	90	J
	Unknown	8.78	1350	ug/kg		J
	Unknown	8.93	2790	ug/kg		J
	Unknown	9	2560	ug/kg		J
	Unknown	9.42	1540	ug/kg		J
	Unknown	9.6	1920	ug/kg		J
	Unknown	9.67	2510	ug/kg		J
7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	10.04	992	ug/kg	91	NJ
	Unknown	10.45	1130	ug/kg		J
	Unknown	10.71	1320	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	2510	ug/kg	96	NJ
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	11.5	1310	ug/kg	83	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	985	ug/kg	84	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7434
Batch ID: 960459
Run Date: 03/15/2010 19:04
Prep Date: 03/03/2010 23:09
Data File: s3c1517.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	859	ug/kg	172	859
108-95-2	Phenol	U	859	ug/kg	172	859
95-57-8	2-Chlorophenol	U	859	ug/kg	172	859
106-46-7	1,4-Dichlorobenzene	U	859	ug/kg	172	859
621-64-7	N-Nitrosodipropylamine	U	859	ug/kg	172	859
59-50-7	4-Chloro-3-methylphenol	U	859	ug/kg	172	859
83-32-9	Acenaphthene	U	85.9	ug/kg	28.4	85.9
121-14-2	2,4-Dinitrotoluene	U	859	ug/kg	85.9	859
100-02-7	4-Nitrophenol	U	859	ug/kg	284	859
87-86-5	Pentachlorophenol	U	859	ug/kg	215	859
129-00-0	Pyrene		145	ug/kg	25.8	85.9
110-86-1	Pyridine	U	859	ug/kg	172	859 UJ,SV7c
62-53-3	Aniline	U	859	ug/kg	258	859
111-44-4	bis(2-Chloroethyl) ether	U	859	ug/kg	172	859
541-73-1	1,3-Dichlorobenzene	U	859	ug/kg	172	859
100-51-6	Benzyl alcohol	U	859	ug/kg	258	859
95-50-1	1,2-Dichlorobenzene	U	859	ug/kg	172	859
108-60-1	bis(2-Chloroisopropyl) ether	U	859	ug/kg	172	859
95-48-7	o-Cresol	U	859	ug/kg	172	859
65794-96-9	m,p-Cresols	U	859	ug/kg	258	859
67-72-1	Hexachloroethane	U	859	ug/kg	172	859
98-95-3	Nitrobenzene	U	859	ug/kg	172	859
78-59-1	Isophorone	U	859	ug/kg	172	859
88-75-5	2-Nitrophenol	U	859	ug/kg	172	859
105-67-9	2,4-Dimethylphenol	U	859	ug/kg	301	859
111-91-1	bis(2-Chloroethoxy)methane	U	859	ug/kg	172	859
120-83-2	2,4-Dichlorophenol	U	859	ug/kg	172	859
65-85-0	Benzoic acid	J	1650	ug/kg	430	1720
91-20-3	Naphthalene	U	85.9	ug/kg	25.8	85.9
106-47-8	4-Chloroaniline	U	859	ug/kg	172	859
87-68-3	Hexachlorobutadiene	U	859	ug/kg	172	859
91-57-6	2-Methylnaphthalene	U	85.9	ug/kg	17.2	85.9
77-47-4	Hexachlorocyclopentadiene	U	859	ug/kg	172	859 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	859	ug/kg	172	859
95-95-4	2,4,5-Trichlorophenol	U	859	ug/kg	172	859
91-58-7	2-Chloronaphthalene	U	85.9	ug/kg	28.4	85.9
88-74-4	2-Nitroaniline	U	859	ug/kg	172	859
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	859	ug/kg	172	859

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197010	Date Received: 02/26/2010 08:45	%Moisture: 22.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7434	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/15/2010 19:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1517.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	859	ug/kg	172	859
606-20-2	2,6-Dinitrotoluene	U	859	ug/kg	85.9	859
208-96-8	Acenaphthylene	U	85.9	ug/kg	25.8	85.9
51-28-5	2,4-Dinitrophenol	U	1720	ug/kg	327	1720
132-64-9	Dibenzofuran	U	859	ug/kg	172	859
84-66-2	Diethylphthalate	U	859	ug/kg	172	859
86-73-7	Fluorene	U	85.9	ug/kg	25.8	85.9
7005-72-3	4-Chlorophenylphenylether	U	859	ug/kg	172	859
534-52-1	2-Methyl-4,6-dinitrophenol	U	859	ug/kg	172	859
100-01-6	4-Nitroaniline	U	859	ug/kg	258	859
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	859	ug/kg	172	859
122-66-7	Azobenzene	U	859	ug/kg	172	859
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	859	ug/kg	172	859
118-74-1	Hexachlorobenzene	U	859	ug/kg	172	859
85-01-8	Phenanthrene		118	ug/kg	25.8	85.9
120-12-7	Anthracene	U	85.9	ug/kg	17.2	85.9
84-74-2	Di-n-butylphthalate	U	859	ug/kg	172	859
206-44-0	Fluoranthene		149	ug/kg	25.8	85.9
85-68-7	Butylbenzylphthalate	U	859	ug/kg	172	859
56-55-3	Benzo(a)anthracene	J	79.3	ug/kg	25.8	85.9
91-94-1	3,3'-Dichlorobenzidine	U	859	ug/kg	258	859
218-01-9	Chrysene	J	65.3	ug/kg	25.8	85.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	859	ug/kg	172	859
117-84-0	Di-n-octylphthalate	U	859	ug/kg	172	859
205-99-2	Benzo(b)fluoranthene		119	ug/kg	25.8	85.9
207-08-9	Benzo(k)fluoranthene	U	85.9	ug/kg	25.8	85.9
50-32-8	Benzo(a)pyrene	J	61.0	ug/kg	25.8	85.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	33.7	ug/kg	25.8	85.9
53-70-3	Dibenzo(a,h)anthracene	U	85.9	ug/kg	25.8	85.9
191-24-2	Benzo(ghi)perylene	J	37.4	ug/kg	25.8	85.9
120-82-1	1,2,4-Trichlorobenzene	U	859	ug/kg	172	859

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	2.83	1510	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.37	522	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197010	Date Received: 02/26/2010 08:45	%Moisture: 22.9
Client ID: RE36-10-7434	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/15/2010 19:04	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1517.d	Aliquot: 30.17 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
112-95-8	Unknown	7.89	691	ug/kg		J
	Unknown	8.39	451	ug/kg		J
	Unknown	8.5	349	ug/kg		J
	Unknown	8.9	473	ug/kg		J
	Unknown	8.93	677	ug/kg		J
	Eicosane	9.03	624	ug/kg	96	NJ
	Unknown	9.75	406	ug/kg		J
	Unknown	12.23	555	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Allquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 18.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7516
Batch ID: 960459
Run Date: 03/13/2010 16:56
Prep Date: 03/03/2010 23:09
Data File: s3c1319.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	809	ug/kg	162	809
108-95-2	Phenol	U	809	ug/kg	162	809
95-57-8	2-Chlorophenol	U	809	ug/kg	162	809
106-46-7	1,4-Dichlorobenzene	U	809	ug/kg	162	809
621-64-7	N-Nitrosodipropylamine	U	809	ug/kg	162	809
59-50-7	4-Chloro-3-methylphenol	U	809	ug/kg	162	809
83-32-9	Acenaphthene	U	80.9	ug/kg	26.7	80.9
121-14-2	2,4-Dinitrotoluene	U	809	ug/kg	80.9	809
100-02-7	4-Nitrophenol	U	809	ug/kg	267	809
87-86-5	Pentachlorophenol	U	809	ug/kg	202	809
129-00-0	Pyrene		96.7	ug/kg	24.3	80.9
110-86-1	Pyridine	U	809	ug/kg	162	809 UJ,SV7c
62-53-3	Aniline	U	809	ug/kg	243	809
111-44-4	bis(2-Chloroethyl) ether	U	809	ug/kg	162	809
541-73-1	1,3-Dichlorobenzene	U	809	ug/kg	162	809
100-51-6	Benzyl alcohol	U	809	ug/kg	243	809
95-50-1	1,2-Dichlorobenzene	U	809	ug/kg	162	809
108-60-1	bis(2-Chloroisopropyl) ether	U	809	ug/kg	162	809
95-48-7	o-Cresol	U	809	ug/kg	162	809
65794-96-9	m,p-Cresols	U	809	ug/kg	243	809
67-72-1	Hexachloroethane	U	809	ug/kg	162	809
98-95-3	Nitrobenzene	U	809	ug/kg	162	809
78-59-1	Isophorone	U	809	ug/kg	162	809
88-75-5	2-Nitrophenol	U	809	ug/kg	162	809
105-67-9	2,4-Dimethylphenol	U	809	ug/kg	283	809
111-91-1	bis(2-Chloroethoxy)methane	U	809	ug/kg	162	809
120-83-2	2,4-Dichlorophenol	U	809	ug/kg	162	809
65-85-0	Benzoic acid	U	1620	ug/kg	404	1620 UJ,SV7c
91-20-3	Naphthalene	U	80.9	ug/kg	24.3	80.9
106-47-8	4-Chloroaniline	U	809	ug/kg	162	809
87-68-3	Hexachlorobutadiene	U	809	ug/kg	162	809
91-57-6	2-Methylnaphthalene	U	80.9	ug/kg	16.2	80.9
77-47-4	Hexachlorocyclopentadiene	U	809	ug/kg	162	809 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	809	ug/kg	162	809
95-95-4	2,4,5-Trichlorophenol	U	809	ug/kg	162	809
91-58-7	2-Chloronaphthalene	U	80.9	ug/kg	26.7	80.9
88-74-4	2-Nitroaniline	U	809	ug/kg	162	809
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	809	ug/kg	162	809 UJ,SV7c

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

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 18.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	809	ug/kg	162	809
606-20-2	2,6-Dinitrotoluene	U	809	ug/kg	80.9	809
208-96-8	Acenaphthylene	U	80.9	ug/kg	24.3	80.9
51-28-5	2,4-Dinitrophenol	U	1620	ug/kg	307	1620
132-64-9	Dibenzofuran	U	809	ug/kg	162	809
84-66-2	Diethylphthalate	U	809	ug/kg	162	809
86-73-7	Fluorene	U	80.9	ug/kg	24.3	80.9
7005-72-3	4-Chlorophenylphenylether	U	809	ug/kg	162	809
534-52-1	2-Methyl-4,6-dinitrophenol	U	809	ug/kg	162	809
100-01-6	4-Nitroaniline	U	809	ug/kg	243	809
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	809	ug/kg	162	809
122-66-7	Azobenzene	U	809	ug/kg	162	809
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	809	ug/kg	162	809
118-74-1	Hexachlorobenzene	U	809	ug/kg	162	809
85-01-8	Phenanthrene	J	63.1	ug/kg	24.3	80.9
120-12-7	Anthracene	U	80.9	ug/kg	16.2	80.9
84-74-2	Di-n-butylphthalate	U	809	ug/kg	162	809
206-44-0	Fluoranthene		87.1	ug/kg	24.3	80.9
85-68-7	Butylbenzylphthalate	U	809	ug/kg	162	809
56-55-3	Benzo(a)anthracene	J	54.4	ug/kg	24.3	80.9
91-94-1	3,3'-Dichlorobenzidine	U	809	ug/kg	243	809
218-01-9	Chrysene	J	58.3	ug/kg	24.3	80.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	809	ug/kg	162	809
117-84-0	Di-n-octylphthalate	U	809	ug/kg	162	809
205-99-2	Benzo(b)fluoranthene		113	ug/kg	24.3	80.9
207-08-9	Benzo(k)fluoranthene	U	80.9	ug/kg	24.3	80.9
50-32-8	Benzo(a)pyrene	J	49.5	ug/kg	24.3	80.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	24.9	ug/kg	24.3	80.9
53-70-3	Dibenzo(a,h)anthracene	U	80.9	ug/kg	24.3	80.9
191-24-2	Benzo(ghi)perylene	J	32.7	ug/kg	24.3	80.9
120-82-1	1,2,4-Trichlorobenzene	U	809	ug/kg	162	809

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.62	492	ug/kg		J
3386-33-2	Octadecane, 1-chloro-	8	516	ug/kg	89	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00

Matrix: R

Date Received: 02/26/2010 08:45

%Moisture: 18.1

Client: LANL010

Project: LANL01004

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Inst: MSD3.I

Dilution: 2

Client ID: RE36-10-7516

Batch ID: 960459

Run Date: 03/13/2010 16:56

Analyst: JLD1

Inj. Vol: .5 uL

Prep Date: 03/03/2010 23:09

Aliquot: 30.19 g


Final Volume: 1 mL

Data File: s3c1319.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
506-51-4	1-Tetracosanol	8.43	930	ug/kg	87	NJ
17312-55-9	Decane, 3,8-dimethyl-	8.93	826	ug/kg	90	NJ
112-95-8	Eicosane	9.61	527	ug/kg	95	NJ
	Unknown	9.66	1100	ug/kg		J
	Unknown	10.44	436	ug/kg		J
83-46-5	.beta.-Sitosterol	11.07	641	ug/kg	93	NJ
	Unknown	11.46	1180	ug/kg		J

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

Section I.		
REQUEST NUMBER: <u>10-2121</u>	VALIDATION DATE: <u>4/12/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Allison Felix</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE 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 ICAL RRF for p-nitrotoluene was <0.05 but ≥ 0.01 . The associated sample results were NDs and, thus, were qualified UJ,HE7b.
2. In the ICV/CCVs associated with sample RE36-10-7303, the %Ds for HMX and 2,4,6-trinitrotoluene were $>20\%$ with positive bias. In the ICV/CCVs associated with all other samples, the %D for RDX was $>20\%$ with positive bias. The associated sample results were NDs and, thus, were not qualified.
3. The MS and MSD %Rs for tetraol were $<$ the laboratory LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ,HE12e.

Reviewed by: ETMLevel: 1Date: 4/13/10


VALIDATOR'S SIGNATURE: <u>Allison Felix</u>	DATE: <u>4/12/10</u>
Form 5122-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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

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

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

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

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

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

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

Records Use only



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323063a

Date Analyzed: 24-MAR-10 15:37

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	UJ,HE12e 500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	UJ,HE7b 500	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160158.wiff

Date Analyzed: 18-MAR-10 01:23

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Molsture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0326058a

Date Analyzed: 27-MAR-10 18:44

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 UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Moisture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160161.wiff

Date Analyzed: 18-MAR-10 02:11

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323067a

Date Analyzed: 24-MAR-10 17:35

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 UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160162.wiff

Date Analyzed: 18-MAR-10 02:26

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: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323068a

Date Analyzed: 24-MAR-10 18:05

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	UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U	
78-11-5	PETN	1000	U	
88-72-2	o-Nitrotoluene	500	U	
98-95-3	Nitrobenzene	500	U	
99-08-1	m-Nitrotoluene	500	U	
99-35-4	1,3,5-Trinitrobenzene	500	U	
99-65-0	m-Dinitrobenzene	500	U	
99-99-0	p-Nitrotoluene	UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160163.wiff

Date Analyzed: 18-MAR-10 02:42

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	<u>Concentrated Extract Volume</u> Sample Amount	X	Dilution Factor
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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323069a

Date Analyzed: 24-MAR-10 18:34

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 UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160164.wiff

Date Analyzed: 18-MAR-10 02:58

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Molsture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323070a

Date Analyzed: 24-MAR-10 19:04

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 UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160165.wiff

Date Analyzed: 18-MAR-10 03:13

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Molsture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323071a

Date Analyzed: 24-MAR-10 19:33

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 UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Moisture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160166.wiff

Date Analyzed: 18-MAR-10 03:29

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323072a

Date Analyzed: 24-MAR-10 20:03

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 UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160167.wiff

Date Analyzed: 18-MAR-10 03:45

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323076a

Date Analyzed: 24-MAR-10 22:01

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 UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160171.wiff

Date Analyzed: 18-MAR-10 04:48

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323077a

Date Analyzed: 24-MAR-10 22:30

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160172.wiff

Date Analyzed: 18-MAR-10 05:03

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323078a

Date Analyzed: 24-MAR-10 23:00

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 UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160173.wiff

Date Analyzed: 18-MAR-10 05:19

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323079a

Date Analyzed: 24-MAR-10 23:29

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12e	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160174.wiff

Date Analyzed: 18-MAR-10 05:35

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

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2121 VALIDATION DATE: 4/9/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Allison Felix 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): _____ | | | |

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 analyses were performed on a LANL sample from another RN and that the raw data for the parent sample was not included in the data package. No sample results were qualified.

Reviewed by: ETM Level: 1 Date: 4/13/10VALIDATOR'S SIGNATURE: Allison FelixDATE: 4/9/10

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

5116-2

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

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 14.1
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	3.86	ug/kg	1.28	3.86	1
11104-28-2	Aroclor-1221	U	3.86	ug/kg	1.28	3.86	1
11141-16-5	Aroclor-1232	U	3.86	ug/kg	1.28	3.86	1
53469-21-9	Aroclor-1242	U	3.86	ug/kg	1.28	3.86	1
12672-29-6	Aroclor-1248	U	3.86	ug/kg	1.28	3.86	1
11097-69-1	Aroclor-1254	P	15.1	ug/kg	1.28	3.86	1
11096-82-5	Aroclor-1260		10.3	ug/kg	1.28	3.86	1

PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-2121	Date Collected:	02/23/2010 12:00	Matrix:	R
Lab Sample ID:	248197004	Date Received:	02/26/2010 08:45	% Moisture:	11.9
Client ID:	RE36-10-7404	Client:	LANL010	Project:	LANL01004
Batch ID:	965380	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/16/2010 16:55	Inst:	ECD1A.J	Dilution:	1
Prep Date:	03/15/2010 21:25	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	025f2501.d	Allquot:	30.02 g	Final Volume:	1 mL
	025b2501.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.78	ug/kg	1.26	3.78	1
11104-28-2	Aroclor-1221	U	3.78	ug/kg	1.26	3.78	1
11141-16-5	Aroclor-1232	U	3.78	ug/kg	1.26	3.78	1
53469-21-9	Aroclor-1242	U	3.78	ug/kg	1.26	3.78	1
12672-29-6	Aroclor-1248	U	3.78	ug/kg	1.26	3.78	1
11097-69-1	Aroclor-1254	P	15.0	ug/kg	1.26	3.78	1
11096-82-5	Aroclor-1260		11.7	ug/kg	1.26	3.78	1

AMF
4/9/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197001Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.11 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 17.5
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOWClient ID: RE36-10-7405
Batch ID: 965380
Run Date: 03/16/2010 16:17
Prep Date: 03/15/2010 21:25
Data File: 022f2201.d
022b2201.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.03	ug/kg	1.34	4.03	1
11104-28-2	Aroclor-1221	U	4.03	ug/kg	1.34	4.03	1
11141-16-5	Aroclor-1232	U	4.03	ug/kg	1.34	4.03	1
53469-21-9	Aroclor-1242	U	4.03	ug/kg	1.34	4.03	1
12672-29-6	Aroclor-1248	U	4.03	ug/kg	1.34	4.03	1
11097-69-1	Aroclor-1254		7.90	ug/kg	1.34	4.03	1
11096-82-5	Aroclor-1260		5.70	ug/kg	1.34	4.03	1

AMF
4/9/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197003Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.15 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 10.4
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	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197005Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 18.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Paramname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.06	ug/kg	1.35	4.06	1
11104-28-2	Aroclor-1221	U	4.06	ug/kg	1.35	4.06	1
11141-16-5	Aroclor-1232	U	4.06	ug/kg	1.35	4.06	1
53469-21-9	Aroclor-1242	U	4.06	ug/kg	1.35	4.06	1
12672-29-6	Aroclor-1248	U	4.06	ug/kg	1.35	4.06	1
11097-69-1	Aroclor-1254	P	8.40	ug/kg	1.35	4.06	1
11096-82-5	Aroclor-1260		6.40	ug/kg	1.35	4.06	1

Thursday, February 25, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2121

LOS ALAMOS

REQUEST NUMBER: 10-2121

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248197

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7405	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7405	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7403	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7403	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7406	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7406	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7404	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7404	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7516	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7516	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7540	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE36-10-7426	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7426	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7432	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7432	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7431	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7431	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7434	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7434	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7425	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7425	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7429	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7429	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7433	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7433	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

Thursday, February 25, 2010
LOS ALAMOS
NATIONAL LABORATORY

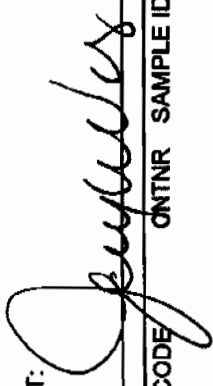
These Samples are on:
LANL Request Number: 10-2121
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

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: 2/25/2010
TURNAROUND/REPORT DUE: 3/27/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.8082	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846.8260B	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	

Thursday, February 25, 2010

REQUEST NUMBER: 10-2121

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7540	S	2/23/2010	
	SW-846:8270C	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846:8321A_MOD	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	

REQUEST NUMBER: 10-2121

Thursday, February 25, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

Final Page of REQUEST NUMBER 10-2121



March 05, 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: 248197
SDG: 10-2121

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 26, 2010, and analyzed for Explosives by LCMSMS, GC Semivolatile PCB, GC/MS Semivolatile and GC/MS Volatile. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-2121
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 248197
SDG: 10-2121

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Miscellaneous Data.....	1687

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 248197
SDG # : 10-2121**

March 05, 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 26, 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:

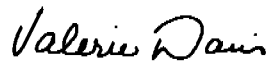
<u>Laboratory ID</u>	<u>Client ID</u>
248197001	RE36-10-7405
248197002	RE36-10-7403
248197003	RE36-10-7406
248197004	RE36-10-7404
248197005	RE36-10-7516
248197006	RE36-10-7540
248197007	RE36-10-7426
248197008	RE36-10-7432
248197009	RE36-10-7431
248197010	RE36-10-7434
248197011	RE36-10-7425
248197012	RE36-10-7429
248197013	RE36-10-7433

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.



Valeric Davis

Project Manager

List of current GEL Certifications as of 05 March 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

Thursday, February 25, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2121

LOS ALAMOS

REQUEST NUMBER: 10-2121

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248197

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7405	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7405	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7403	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7403	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7406	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7406	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7404	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7404	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7516	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE36-10-7516	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7540	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE36-10-7426	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7426	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7432	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7432	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7431	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7431	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7434	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7434	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7425	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7425	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7429	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7429	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE36-10-7433	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE36-10-7433	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

Thursday, February 25, 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: 2/25/2010

TURNAROUND/REPORT DUE: 3/27/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

Page 1 of 3

REQUEST NUMBER: 10-2121

These Samples are on:

LANL Request Number: 10-2121

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846:8260B	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	

Thursday, February 25, 2010

REQUEST NUMBER: 10-2121

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7540	S	2/23/2010	
	SW-846:8270C	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846:8321A_MOD	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	

Thursday, February 25, 2010

REQUEST NUMBER: 10-2121

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

Final Page of REQUEST NUMBER 10-2121



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-2121	
Received By: Patricia Dover-Dent		Date Received: 2/26/10	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60CPM
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 1-3,6C 11-14,17
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:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 2341 1C 7209 7850 2319 2C 7209 7850 2352 12C
 7209 7850 2320 1C 7209 7850 2422 3C 7209 7850 2271 13C
 7209 7850 2396 2C 7209 7850 2385 3C 7209 7850 2466 13C
 7209 7850 2374 2C 7209 7850 2444 6C 7209 7850 2282 14C
 7209 7850 2330 2C 7209 7850 2400 6C 7209 7850 2293 17C
 7209 7850 2455 2C 7209 7850 2477 6C
 7209 7850 2308 2C 7209 7850 2433 6C
 7209 7850 2411 2C 7209 7850 2260 11C

PM (or PMA) review: Initials

ms

Date

2/1/10

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: 25FEB10
ACTWGT: 57.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

ORIGIN ID: SAFA (505) 665-9963
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A022DXL00

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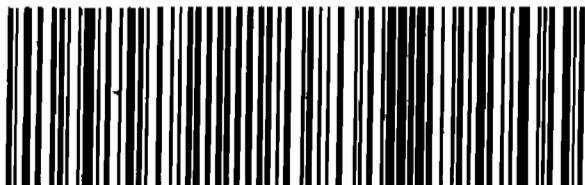
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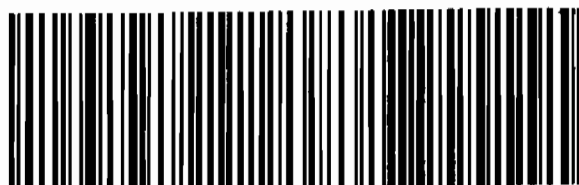


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PRIORITY OVERNIGHT

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SC-US
CHS

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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: 25FEB10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2450

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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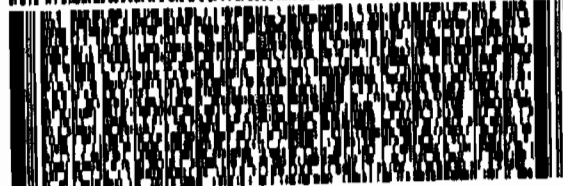
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0263

Matr# 7209 7850 2385 0201

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1706

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PRIORITY OVERNIGHT

29407
SC-US

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: 25FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

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: 25FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2450

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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

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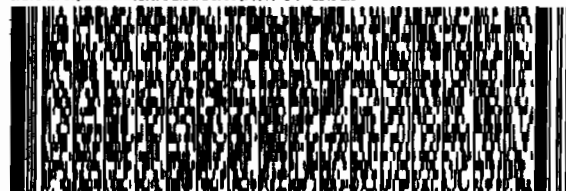
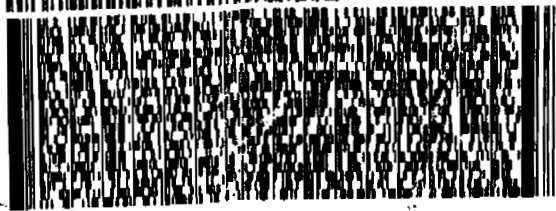
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REF: 6B010AMR3A05529E00

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TRKH 7209 7850 2330

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FRI - 26 FEB A1
PRIORITY OVERNIGHT

29407
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Emp 133998 25FEB10 SAFA

TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2450

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
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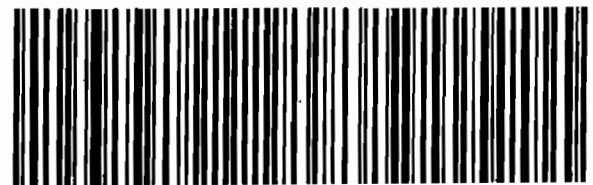
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FRI - 26FEB A1
PRIORITY OVERNIGHT

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: 25FEB10
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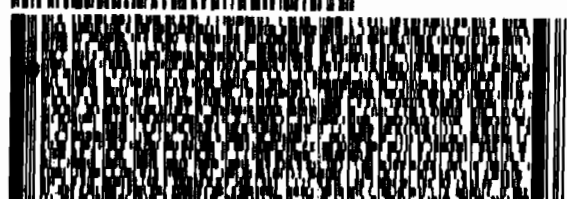
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GENERAL ENGINEERING LAB
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(843) 556-8171
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1 of 2
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NM MASTER NM

XX CHSA

FRI - 26FEB A1
PRIORITY OVERNIGHT

29407
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CHS

2 of 2
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Matr 7209 7850 2400 0201

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PRIORITY OVERNIGHT

29407
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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: 25FEB10
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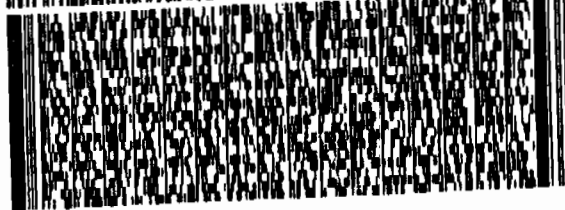
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GENERAL ENGINEERING LAB
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REF: 6B010AMR1A015AGWMO

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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: 25FEB10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2450

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FRI - 26FEB A1
PRIORITY OVERNIGHT

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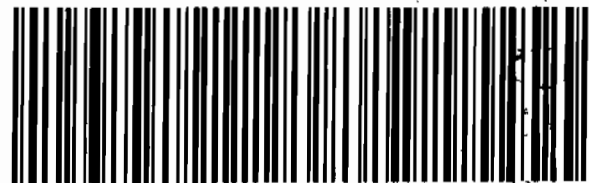


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MASTER

FRI - 26FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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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: 25FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2450

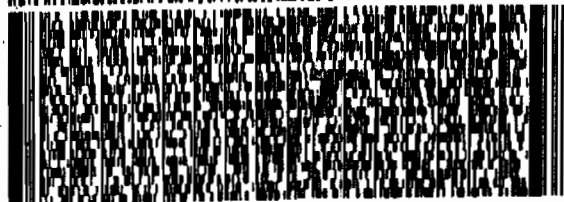
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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AARDW01EA1S00

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

SHIP DATE: 25FEB10
ACTWGT: 63.0 LB MAN
CAD: 0014176/CAFE2450

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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REF: 6B010AMR3A05529E00

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PRIORITY OVERNIGHT

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Page 13 of 1706

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TRK# 0201 7209 7850 2444

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PRIORITY OVERNIGHT

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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: 25FEB10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

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: 25FEB10
ACTWGT: 45.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00



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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00



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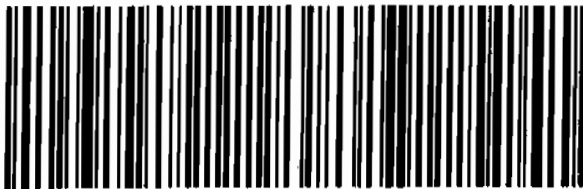


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0201
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FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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

ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00



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Express

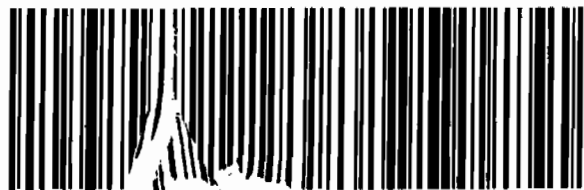


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0263
Mstr# 7209 7850 2455 0201

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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

ACTWGT: 45.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A05158YD0



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2 of 2
MPSH 7209 7850 2433
0263
Mstr# 7209 7850 2422 0201

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

2 of 3
MPSH 7209 7850 2260
0263
Mstr# 7209 7850 2250 0201

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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: 25FEB10
ACTWGT: 59.0 LB MAN
CAD: 0014176/CAFE2450

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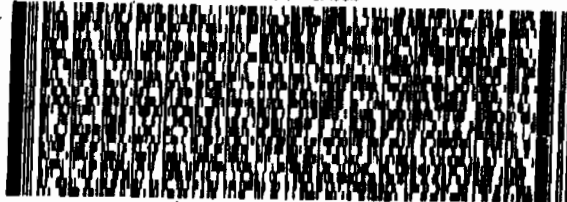
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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

(843) 556-8171
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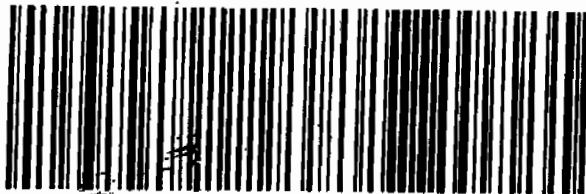


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FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

CAD: 0014176/CAFE2450

BILL SENDER

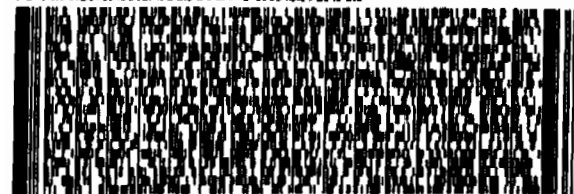
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR2A0515BYDO

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0014176/CAFE2450



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J05200911302271

1 of 2
TRK# 7209 7850 2282
0201
MM MASTER MM
FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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: 25FEB10
ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450

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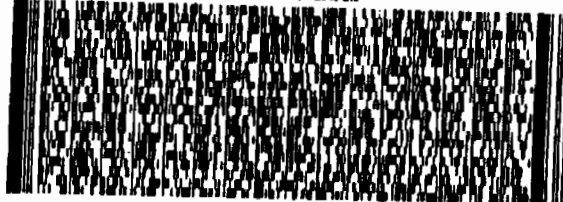
TO VALERIE DAVIS
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(843) 556-8171
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0014176/CAFE2450



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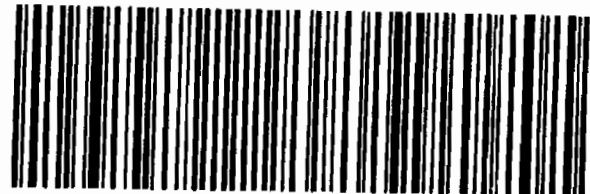


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3 of 3
MPS# 7209 7850 2271
0263
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FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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: 25FEB10
ACTWGT: 36.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

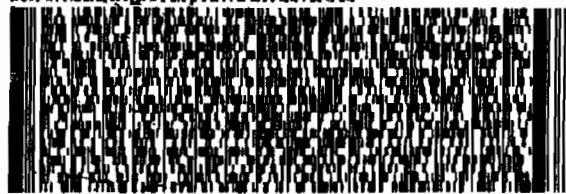
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

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2 of 3
MPS# 7209 7850 2466
0263
Mstr# 7209 7850 2455 0201
FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 663-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 40.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYDO

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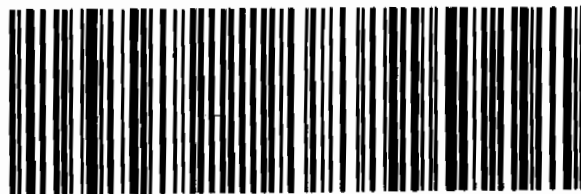
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2 of 2
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0263
Mstr# 7209 7850 2282 0201

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PRIORITY OVERNIGHT

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29407
SC-US
CHS



Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

A The TIC is a suspected aldol-condensation product

B Target analyte was detected in the associated blank

B Metals-Either presence of analyte detected in the associated blank, or
MDL/IDL < sample value < PQL

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

d 5-day BOD-The 2:1 depletion requirement was not met for this sample

E Organics-Concentration of the target analyte exceeds the instrument calibration range

E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria

H Analytical holding time was exceeded

h Preparation or preservation holding time was exceeded

J Value is estimated

N Metals-The Matrix spike sample recovery is not within specified control limits

N Organics-Presumptive evidence based on mass spectral library search to make a tentative
identification of the analyte (TIC). Quantitation is based on nearest internal standard
response factor

N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration
by 4X or more

ND Analyte concentration is not detected above the reporting limit

UI Gamma Spectroscopy-Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

GC/MS Volatile Analysis

**GC/MS Volatile Organics
Los Alamos National Laboratory (LANL)
SDG 10-2121**

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030
Analytical Batch Number: 962059
Prep Batch Number: 962058

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
248197001	RE36-10-7405
248197002	RE36-10-7403
248197003	RE36-10-7406
248197004	RE36-10-7404
248197005	RE36-10-7516
248197006	RE36-10-7540
248197007	RE36-10-7426
248197008	RE36-10-7432
248197009	RE36-10-7431
248197010	RE36-10-7434
248197011	RE36-10-7425
248197012	RE36-10-7429
248197013	RE36-10-7433
1202063555	Method Blank (MB)
1202063558	Laboratory Control Sample (LCS)
1202063559	Laboratory Control Sample (LCS)
1202078255	Method Blank (MB)
1202063560	Laboratory Control Sample (LCS)
1202063561	Laboratory Control Sample (LCS)
1202078256	Method Blank (MB)
1202078257	Laboratory Control Sample (LCS)
1202078258	Laboratory Control Sample (LCS)
1202063556	248197001(RE36-10-7405) Post Spike (PS)
1202063557	248197001(RE36-10-7405) 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 248197 001, 002, 003, 004, 005, 007, 008, 009, 010, 011, 012 and 013 in this SDG were analyzed on an "dry weight" basis. Sample 248197006 in this SDG was 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

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 248197001 (RE36-10-7405) was designated for spike analysis in this SDG.

Matrix Spike (PS) Recovery Statement

The spike recoveries were not all within the acceptance limits. The spike duplicate recovered in a similar manner. Please see the Form III in the deliverable for a complete list of recoveries and the limits. See DER 807960.

Matrix Spike Duplicate (PSD) Recovery Statement

The spike duplicate recoveries were not all within the acceptance limits. The spike recovered in a similar manner. Please see the Form III in the deliverable for a complete list of recoveries and the limits. See DER 807960.

Relative Percent Difference (RPD) Statement

The RPD(s) between the matrix spike pair met the acceptance limits.

Internal Standard (ISTD) Acceptance

In samples 248197010 (RE36-10-7434) and 248197012 (RE36-10-7429), internal standard responses were outside the required acceptance criteria. Sample re-analysis confirmed matrix interference. See DER 807960.

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 248197001 (RE36-10-7405), 248197009 (RE36-10-7431), 248197010 (RE36-10-7434), 248197012 (RE36-10-7429) and 248197013 (RE36-10-7433) 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 # 807960 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: 10-2121 GEL Work Order: 248197


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: 25 MAR 2010

Title: Data Validator

Roadmap for LANL 10-2121 VOA

This roadmap was analyzed by alc01592 on 03-23-2010, 02:54.

This roadmap was reviewed by kel00587 on 03-25-2010, 13:24.

This roadmap was packaged by lys00434 on 03-25-2010, 15:24.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	batchid	comment
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b611.d	248197001	RE36-10-7405	06-MAR-2010	17:58	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b612.d	248197002	RE36-10-7403	06-MAR-2010	18:31	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b613.d	248197003	RE36-10-7406	06-MAR-2010	19:03	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b614.d	248197004	RE36-10-7404	06-MAR-2010	19:36	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b615.d	248197005	RE36-10-7516	06-MAR-2010	20:09	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b616.d	248197006	RE36-10-7540	06-MAR-2010	20:42	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b617.d	248197007	RE36-10-7426	06-MAR-2010	21:16	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b618.d	248197008	RE36-10-7432	06-MAR-2010	21:50	10-2121.sub	1	962059	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b619.d	248197009	RE36-10-7431	06-MAR-2010	22:23	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b620.d	248197010	RE36-10-7434	06-MAR-2010	22:56	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b628.d	248197011	RE36-10-7425	07-MAR-2010	03:27	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b629.d	248197012	RE36-10-7429	07-MAR-2010	04:00	10-2121.sub	1	962059	<input type="text"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b630.d	248197013	RE36-10-7433	07-MAR-2010	04:34	10-2121.sub	1	962059	<input type="text"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c214.d	248197001	RE36-10-7405	09-MAR-2010	17:26	10-2121.sub	1	962059	<input type="text"/>
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<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c217.d	248197012	RE36-10-7429	09-MAR-2010	19:07	10-2121.sub	1	962059	<input type="text"/>

<input type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c218.d	248197013	RE36-10-7433	09-MAR-2010	19:40	10-2121.sub	1	962059	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	N	/chem/VOA7.i/031010v7/7c314.d	248197012		10-MAR-2010	14:57	CALsubL+.sub	1	962059	<input type="checkbox"/>

QC Sample

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<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b604LL.d	1202063558	LCS	lcs	06-MAR-2010	14:06	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b606LL.d	1202063559	SLCS	lcs	06-MAR-2010	15:13	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b608LL.d	1202063555	BLANK	mb	06-MAR-2010	16:19	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b621.d	1202063556	RE36-10-7405MS	ms	06-MAR-2010	23:30	10-2121.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b622.d	1202063557	RE36-10-7405MSD	msd	07-MAR-2010	00:04	10-2121.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b625LA.d	1202063560	LCS	lcs	07-MAR-2010	01:46	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b626LA.d	1202063561	SLCS	lcs	07-MAR-2010	02:19	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030610v7/7b627LA.d	1202078255	BLANK	mb	07-MAR-2010	02:53	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c204LA.d	1202078257	LCS	lcs	09-MAR-2010	11:38	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c206LA.d	1202078258	SLCS	lcs	09-MAR-2010	12:45	all.sub	1	962059	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c208LA.d	1202078256	BLANK	mb	09-MAR-2010	13:54	all.sub	1	962059	<input type="checkbox"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c220.d	1202063556	RE36-10-7405MS	ms	09-MAR-2010	20:46	CALsubL+.sub	1	962059	<input type="checkbox"/>
<input checked="" type="checkbox"/>	N	/chem/VOA7.i/030910v7/7c221.d	1202063557	RE36-10-7405MSD	msd	09-MAR-2010	21:19	CALsubL+.sub	1	962059	<input type="checkbox"/>

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 18:31	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b612.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.16	ug/kg	0.396	1.16
74-87-3	Chloromethane	U	1.16	ug/kg	0.349	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.349	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.349	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.349	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.349	1.16
67-64-1	Acetone	U	5.82	ug/kg	1.93	5.82
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
74-88-4	Iodomethane	U	5.82	ug/kg	1.86	5.82
75-09-2	Methylene chloride	U	5.82	ug/kg	2.33	5.82
75-15-0	Carbon disulfide	U	5.82	ug/kg	1.45	5.82
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.349	1.16
78-93-3	2-Butanone	U	5.82	ug/kg	1.75	5.82
156-59-2	cis-1,2-Dichloroethylen	U	1.16	ug/kg	0.349	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16
67-66-3	Chloroform	U	1.16	ug/kg	0.349	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.384	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.349	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.349	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.349	1.16
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.349	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.349	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.384	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.349	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.349	1.16
108-10-1	4-Methyl-2-pentanone	U	5.82	ug/kg	1.45	5.82
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.349	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.349	1.16
591-78-6	2-Hexanone	U	5.82	ug/kg	1.75	5.82
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.349	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.349	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.349	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.349	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.349	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 18:31	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b612.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQI/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.349	1.16
179601-23-1	m,p-Xylenes	U	2.33	ug/kg	0.349	2.33
95-47-6	o-Xylene	U	1.16	ug/kg	0.349	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.349	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.349	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.349	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.349	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.349	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.349	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.349	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.349	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.349	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.349	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.349	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.82	ug/kg	1.86	5.82
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 19:36	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b614.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.14	ug/kg	0.386	1.14
74-87-3	Chloromethane	U	1.14	ug/kg	0.341	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.341	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.341	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.341	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.341	1.14
67-64-1	Acetone	U	5.68	ug/kg	1.89	5.68
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
74-88-4	Iodomethane	U	5.68	ug/kg	1.82	5.68
75-09-2	Methylene chloride	U	5.68	ug/kg	2.27	5.68
75-15-0	Carbon disulfide	U	5.68	ug/kg	1.42	5.68
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.341	1.14
78-93-3	2-Butanone	U	5.68	ug/kg	1.70	5.68
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14
67-66-3	Chloroform	U	1.14	ug/kg	0.341	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.375	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.341	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.341	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.341	1.14
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.341	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.341	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.375	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.341	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.341	1.14
108-10-1	4-Methyl-2-pentanone	U	5.68	ug/kg	1.42	5.68
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.341	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.341	1.14
591-78-6	2-Hexanone	U	5.68	ug/kg	1.70	5.68
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.341	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.341	1.14
124-48-1	Dibromochloromethane	U	1.14	ug/kg	0.341	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.341	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.341	1.14

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 19:36	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b614.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.14	ug/kg	0.341	1.14
179601-23-1	m,p-Xylenes	U	2.27	ug/kg	0.341	2.27
95-47-6	o-Xylene	U	1.14	ug/kg	0.341	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.341	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.341	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.341	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.341	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.341	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.341	1.14
108-67-8	1,3,5-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.341	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.341	1.14
99-87-6	4-Isopropyltoluene	U	1.14	ug/kg	0.341	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.341	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.341	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.68	ug/kg	1.82	5.68
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 17:26	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c214.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	J	2.97	ug/kg	2.42	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/09/2010 17:26	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c214.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.42	ug/kg	0.364	2.42
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
Client ID: RE36-10-7406	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 19:03	Inst: VOA7.1	Dilution: 1
Prep Date: 03/05/2010 16:18	Analyst: AX01	Purge Vol: 5 mL
Data File: 7b613.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	1.12	ug/kg	0.380	1.12
74-87-3	Chloromethane	U	1.12	ug/kg	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12
67-64-1	Acetone	U	5.58	ug/kg	1.85	5.58
75-35-4	1,1-Dichloroethylen	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.58	ug/kg	1.79	5.58
75-09-2	Methylene chloride	U	5.58	ug/kg	2.23	5.58
75-15-0	Carbon disulfide	U	5.58	ug/kg	1.40	5.58
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.58	ug/kg	1.67	5.58
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.368	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.368	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.58	ug/kg	1.40	5.58
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	J	0.437	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.58	ug/kg	1.67	5.58
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 19:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b613.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.23	ug/kg	0.335	2.23
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.58	ug/kg	1.79	5.58
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	% Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 03:27	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:34	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b628.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.28	ug/kg	0.437	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.42	ug/kg	2.13	6.42
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.42	ug/kg	2.05	6.42
75-09-2	Methylene chloride	U	6.42	ug/kg	2.57	6.42
75-15-0	Carbon disulfide	U	6.42	ug/kg	1.61	6.42
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.42	ug/kg	1.93	6.42
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.424	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.424	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.42	ug/kg	1.61	6.42
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.42	ug/kg	1.93	6.42
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7J	Dilution: 1
Run Date: 03/07/2010 03:27	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:34	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b628.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.57	ug/kg	0.385	2.57
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.42	ug/kg	2.05	6.42
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 12.5
 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	1.14	ug/kg	0.388	1.14
74-87-3	Chloromethane	U	1.14	ug/kg	0.343	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.343	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.343	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.343	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.343	1.14
67-64-1	Acetone	U	5.71	ug/kg	1.90	5.71
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
74-88-4	Iodomethane	U	5.71	ug/kg	1.83	5.71
75-09-2	Methylene chloride	U	5.71	ug/kg	2.28	5.71
75-15-0	Carbon disulfide	U	5.71	ug/kg	1.43	5.71
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.343	1.14
78-93-3	2-Butanone	U	5.71	ug/kg	1.71	5.71
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14
67-66-3	Chloroform	U	1.14	ug/kg	0.343	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.377	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.343	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.343	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.343	1.14
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.343	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.343	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.377	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.343	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.343	1.14
108-10-1	4-Methyl-2-pentanone	U	5.71	ug/kg	1.43	5.71
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.343	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.343	1.14
591-78-6	2-Hexanone	U	5.71	ug/kg	1.71	5.71
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.343	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.343	1.14
124-48-1	Dibromochloromethane	U	1.14	ug/kg	0.343	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.343	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.343	1.14

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 12.5
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	1.14	ug/kg	0.343	1.14
179601-23-1	m,p-Xylenes	U	2.28	ug/kg	0.343	2.28
95-47-6	o-Xylene	U	1.14	ug/kg	0.343	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.343	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.343	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.343	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.343	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.343	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.343	1.14
108-67-8	1,3,5-Trimethylbenzene		5.69	ug/kg	0.343	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.343	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.343	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.343	1.14
99-87-6	4-Isopropyltoluene		3.64	ug/kg	0.343	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.343	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.343	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.71	ug/kg	1.83	5.71
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.54	139	ug/kg		J
	Unknown Hydrocarbon	19.65	139	ug/kg		J
	Unknown Hydrocarbon	19.96	748	ug/kg		J
	Unknown Hydrocarbon	20.33	8	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/07/2010 04:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:36	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b629.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.42	ug/kg	0.484	1.42
74-87-3	Chloromethane	U	1.42	ug/kg	0.427	1.42
75-01-4	Vinyl chloride	U	1.42	ug/kg	0.427	1.42
74-83-9	Bromomethane	U	1.42	ug/kg	0.427	1.42
75-00-3	Chloroethane	U	1.42	ug/kg	0.427	1.42
75-69-4	Trichlorofluoromethane	U	1.42	ug/kg	0.427	1.42
67-64-1	Acetone	U	7.11	ug/kg	2.36	7.11
75-35-4	1,1-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
74-88-4	Iodomethane	U	7.11	ug/kg	2.28	7.11
75-09-2	Methylene chloride	U	7.11	ug/kg	2.85	7.11
75-15-0	Carbon disulfide	U	7.11	ug/kg	1.78	7.11
156-60-5	trans-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
75-34-3	1,1-Dichloroethane	U	1.42	ug/kg	0.427	1.42
78-93-3	2-Butanone	U	7.11	ug/kg	2.13	7.11
156-59-2	cis-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
594-20-7	2,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
67-66-3	Chloroform	U	1.42	ug/kg	0.427	1.42
74-97-5	Bromochloromethane	U	1.42	ug/kg	0.469	1.42
71-55-6	1,1,1-Trichloroethane	U	1.42	ug/kg	0.427	1.42
563-58-6	1,1-Dichloropropene	U	1.42	ug/kg	0.427	1.42
56-23-5	Carbon tetrachloride	U	1.42	ug/kg	0.427	1.42
107-06-2	1,2-Dichloroethane	U	1.42	ug/kg	0.427	1.42
71-43-2	Benzene	U	1.42	ug/kg	0.427	1.42
79-01-6	Trichloroethylene	U	1.42	ug/kg	0.469	1.42
78-87-5	1,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
75-27-4	Bromodichloromethane	U	1.42	ug/kg	0.427	1.42
74-95-3	Dibromomethane	U	1.42	ug/kg	0.427	1.42
108-10-1	4-Methyl-2-pentanone	U	7.11	ug/kg	1.78	7.11
10061-01-5	cis-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
108-88-3	Toluene	U	1.42	ug/kg	0.427	1.42
10061-02-6	trans-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
79-00-5	1,1,2-Trichloroethane	U	1.42	ug/kg	0.427	1.42
591-78-6	2-Hexanone	U	7.11	ug/kg	2.13	7.11
142-28-9	1,3-Dichloropropane	U	1.42	ug/kg	0.427	1.42
127-18-4	Tetrachloroethylene	U	1.42	ug/kg	0.427	1.42
124-48-1	Dibromochloromethane	U	1.42	ug/kg	0.427	1.42
106-93-4	1,2-Dibromochloromethane	U	1.42	ug/kg	0.427	1.42
108-90-7	Chlorobenzene	U	1.42	ug/kg	0.427	1.42

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lah Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 04:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:36	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b629.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.42	ug/kg	0.427	1.42
179601-23-1	m,p-Xylenes	U	2.85	ug/kg	0.427	2.85
95-47-6	o-Xylene	U	1.42	ug/kg	0.427	1.42
100-42-5	Styrene	U	1.42	ug/kg	0.427	1.42
75-25-2	Bromoform	U	1.42	ug/kg	0.427	1.42
79-34-5	1,1,2,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
96-18-4	1,2,3-Trichloropropane	U	1.42	ug/kg	0.427	1.42
108-86-1	Bromobenzene	U	1.42	ug/kg	0.427	1.42
103-65-1	n-Propylbenzene	U	1.42	ug/kg	0.427	1.42
95-49-8	2-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-82-8	Isopropylbenzene	U	1.42	ug/kg	0.427	1.42
108-67-8	1,3,5-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
106-43-4	4-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-06-6	tert-Butylbenzene	U	1.42	ug/kg	0.427	1.42
95-63-6	1,2,4-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
135-98-8	sec-Butylbenzene	U	1.42	ug/kg	0.427	1.42
99-87-6	4-Isopropyltoluene	U	1.42	ug/kg	0.427	1.42
541-73-1	1,3-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
106-46-7	1,4-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
104-51-8	n-Butylbenzene	U	1.42	ug/kg	0.427	1.42
96-12-8	1,2-Dibromo-3-chloropropane	U	1.42	ug/kg	0.427	1.42
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.11	ug/kg	2.28	7.11
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
95-50-1	1,2-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	% Moisture: 23
Client ID: RE36-10-7431	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/09/2010 18:00	Inst: VOA7.1	Dilution: 1
Prep Date: 03/09/2010 14:46	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7c215.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	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	J	2.68	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	% Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/09/2010 18:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:46	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c215.d	Column: DB-624	Level: LOW

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

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197008

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 13.6
 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	1.16	ug/kg	0.394	1.16
74-87-3	Chloromethane	U	1.16	ug/kg	0.347	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.347	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.347	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.347	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.347	1.16
67-64-1	Acetone	U	5.79	ug/kg	1.92	5.79
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
74-88-4	Iodomethane	U	5.79	ug/kg	1.85	5.79
75-09-2	Methylene chloride	U	5.79	ug/kg	2.32	5.79
75-15-0	Carbon disulfide	U	5.79	ug/kg	1.45	5.79
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.347	1.16
78-93-3	2-Butanone	U	5.79	ug/kg	1.74	5.79
156-59-2	cis-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16
67-66-3	Chloroform	U	1.16	ug/kg	0.347	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.382	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.347	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.347	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.347	1.16
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.347	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.347	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.382	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.347	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.347	1.16
108-10-1	4-Methyl-2-pentanone	U	5.79	ug/kg	1.45	5.79
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.347	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.347	1.16
591-78-6	2-Hexanone	U	5.79	ug/kg	1.74	5.79
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.347	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.347	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.347	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.347	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.347	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 21:50	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:28	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b618.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.347	1.16
179601-23-1	m,p-Xylenes	U	2.32	ug/kg	0.347	2.32
95-47-6	o-Xylene	U	1.16	ug/kg	0.347	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.347	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.347	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.347	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.347	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.347	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.347	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.347	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.347	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.347	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.347	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.347	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.79	ug/kg	1.85	5.79
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 19:40	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c218.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.40	ug/kg	0.476	1.40
74-87-3	Chloromethane	U	1.40	ug/kg	0.420	1.40
75-01-4	Vinyl chloride	U	1.40	ug/kg	0.420	1.40
74-83-9	Bromomethane	U	1.40	ug/kg	0.420	1.40
75-00-3	Chloroethane	U	1.40	ug/kg	0.420	1.40
75-69-4	Trichlorofluoromethane	U	1.40	ug/kg	0.420	1.40
67-64-1	Acetone	U	7.00	ug/kg	2.33	7.00
75-35-4	1,1-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
74-88-4	Iodomethane	U	7.00	ug/kg	2.24	7.00
75-09-2	Methylene chloride	U	7.00	ug/kg	2.80	7.00
75-15-0	Carbon disulfide	U	7.00	ug/kg	1.75	7.00
156-60-5	trans-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
75-34-3	1,1-Dichloroethane	U	1.40	ug/kg	0.420	1.40
78-93-3	2-Butanone	U	7.00	ug/kg	2.10	7.00
156-59-2	cis-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
594-20-7	2,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
67-66-3	Chloroform	U	1.40	ug/kg	0.420	1.40
74-97-5	Bromochloromethane	U	1.40	ug/kg	0.462	1.40
71-55-6	1,1,1-Trichloroethane	U	1.40	ug/kg	0.420	1.40
563-58-6	1,1-Dichloropropene	U	1.40	ug/kg	0.420	1.40
56-23-5	Carbon tetrachloride	U	1.40	ug/kg	0.420	1.40
107-06-2	1,2-Dichloroethane	U	1.40	ug/kg	0.420	1.40
71-43-2	Benzene	U	1.40	ug/kg	0.420	1.40
79-01-6	Trichloroethylene	U	1.40	ug/kg	0.462	1.40
78-87-5	1,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
75-27-4	Bromodichloromethane	U	1.40	ug/kg	0.420	1.40
74-95-3	Dibromomethane	U	1.40	ug/kg	0.420	1.40
108-10-1	4-Methyl-2-pentanone	U	7.00	ug/kg	1.75	7.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
108-88-3	Toluene	U	1.40	ug/kg	0.420	1.40
10061-02-6	trans-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
79-00-5	1,1,2-Trichloroethane	U	1.40	ug/kg	0.420	1.40
591-78-6	2-Hexanone	U	7.00	ug/kg	2.10	7.00
142-28-9	1,3-Dichloropropane	U	1.40	ug/kg	0.420	1.40
127-18-4	Tetrachloroethylene	U	1.40	ug/kg	0.420	1.40
124-48-1	Dibromochloromethane	U	1.40	ug/kg	0.420	1.40
106-93-4	1,2-Dibromoethane	U	1.40	ug/kg	0.420	1.40
108-90-7	Chlorobenzene	U	1.40	ug/kg	0.420	1.40

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 28.6
 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	1.40	ug/kg	0.420	1.40
179601-23-1	m,p-Xylenes	U	2.80	ug/kg	0.420	2.80
95-47-6	o-Xylene	U	1.40	ug/kg	0.420	1.40
100-42-5	Styrene	U	1.40	ug/kg	0.420	1.40
75-25-2	Bromoform	U	1.40	ug/kg	0.420	1.40
79-34-5	1,1,2,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
96-18-4	1,2,3-Trichloropropane	U	1.40	ug/kg	0.420	1.40
108-86-1	Bromobenzene	U	1.40	ug/kg	0.420	1.40
103-65-1	n-Propylbenzene	U	1.40	ug/kg	0.420	1.40
95-49-8	2-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-82-8	Isopropylbenzene	U	1.40	ug/kg	0.420	1.40
108-67-8	1,3,5-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
106-43-4	4-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-06-6	tert-Butylbenzene	U	1.40	ug/kg	0.420	1.40
95-63-6	1,2,4-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
135-98-8	sec-Butylbenzene	U	1.40	ug/kg	0.420	1.40
99-87-6	4-Isopropyltoluene	U	1.40	ug/kg	0.420	1.40
541-73-1	1,3-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
106-46-7	1,4-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
104-51-8	n-Butylbenzene	U	1.40	ug/kg	0.420	1.40
96-12-8	1,2-Dibromo-3-chloropropane	U	1.40	ug/kg	0.420	1.40
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.00	ug/kg	2.24	7.00
630-20-6	1,1,1,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
95-50-1	1,2-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40

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: 10-2121
 Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.9
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7434
 Batch ID: 962059
 Run Date: 03/06/2010 22:56
 Prep Date: 03/05/2010 16:32
 Data File: 7b620.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.441	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.389	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.389	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.389	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.389	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.389	1.30
67-64-1	Acetone	U	6.48	ug/kg	2.15	6.48
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
74-88-4	Iodomethane	U	6.48	ug/kg	2.07	6.48
75-09-2	Methylene chloride	U	6.48	ug/kg	2.59	6.48
75-15-0	Carbon disulfide	U	6.48	ug/kg	1.62	6.48
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.389	1.30
78-93-3	2-Butanone	U	6.48	ug/kg	1.94	6.48
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.389	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.428	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.389	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.389	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.389	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.389	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.389	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.428	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.389	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.389	1.30
108-10-1	4-Methyl-2-pentanone	U	6.48	ug/kg	1.62	6.48
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.389	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.389	1.30
591-78-6	2-Hexanone	U	6.48	ug/kg	1.94	6.48
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.389	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.389	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.389	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.389	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.389	1.30

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.9
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7434
 Batch ID: 962059
 Run Date: 03/06/2010 22:56
 Prep Date: 03/05/2010 16:32
 Data File: 7b620.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.389	1.30
179601-23-1	m,p-Xylenes	U	2.59	ug/kg	0.389	2.59
95-47-6	o-Xylene	U	1.30	ug/kg	0.389	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.389	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.389	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.389	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.389	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.389	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.389	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.389	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.389	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.389	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.389	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.389	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.48	ug/kg	2.07	6.48
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	9.4	15.4	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 18.1
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	1.22	ug/kg	0.415	1.22
74-87-3	Chloromethane	U	1.22	ug/kg	0.366	1.22
75-01-4	Vinyl chloride	U	1.22	ug/kg	0.366	1.22
74-83-9	Bromomethane	U	1.22	ug/kg	0.366	1.22
75-00-3	Chloroethane	U	1.22	ug/kg	0.366	1.22
75-69-4	Trichlorofluoromethane	U	1.22	ug/kg	0.366	1.22
67-64-1	Acetone	U	6.10	ug/kg	2.03	6.10
75-35-4	1,1-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
74-88-4	Iodomethane	U	6.10	ug/kg	1.95	6.10
75-09-2	Methylene chloride	U	6.10	ug/kg	2.44	6.10
75-15-0	Carbon disulfide	U	6.10	ug/kg	1.53	6.10
156-60-5	trans-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
75-34-3	1,1-Dichloroethane	U	1.22	ug/kg	0.366	1.22
78-93-3	2-Butanone	U	6.10	ug/kg	1.83	6.10
156-59-2	cis-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
594-20-7	2,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22
67-66-3	Chloroform	U	1.22	ug/kg	0.366	1.22
74-97-5	Bromochloromethane	U	1.22	ug/kg	0.403	1.22
71-55-6	1,1,1-Trichloroethane	U	1.22	ug/kg	0.366	1.22
563-58-6	1,1-Dichloropropene	U	1.22	ug/kg	0.366	1.22
56-23-5	Carbon tetrachloride	U	1.22	ug/kg	0.366	1.22
107-06-2	1,2-Dichloroethane	U	1.22	ug/kg	0.366	1.22
71-43-2	Benzene	U	1.22	ug/kg	0.366	1.22
79-01-6	Trichloroethylene	U	1.22	ug/kg	0.403	1.22
78-87-5	1,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22
75-27-4	Bromodichloromethane	U	1.22	ug/kg	0.366	1.22
74-95-3	Dibromomethane	U	1.22	ug/kg	0.366	1.22
108-10-1	4-Methyl-2-pentanone	U	6.10	ug/kg	1.53	6.10
10061-01-5	cis-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
108-88-3	Toluene	U	1.22	ug/kg	0.366	1.22
10061-02-6	trans-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
79-00-5	1,1,2-Trichloroethane	U	1.22	ug/kg	0.366	1.22
591-78-6	2-Hexanone	U	6.10	ug/kg	1.83	6.10
142-28-9	1,3-Dichloropropane	U	1.22	ug/kg	0.366	1.22
127-18-4	Tetrachloroethylene	U	1.22	ug/kg	0.366	1.22
124-48-1	Dibromochloromethane	U	1.22	ug/kg	0.366	1.22
106-93-4	1,2-Dibromoethane	U	1.22	ug/kg	0.366	1.22
108-90-7	Chlorobenzene	U	1.22	ug/kg	0.366	1.22

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197005

Client ID: RE36-10-7516
 Batch ID: 962059
 Run Date: 03/06/2010 20:09
 Prep Date: 03/05/2010 16:22
 Data File: 7b615.d

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 18.1
 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	1.22	ug/kg	0.366	1.22
179601-23-1	m,p-Xylenes	U	2.44	ug/kg	0.366	2.44
95-47-6	o-Xylene	U	1.22	ug/kg	0.366	1.22
100-42-5	Styrene	U	1.22	ug/kg	0.366	1.22
75-25-2	Bromoform	U	1.22	ug/kg	0.366	1.22
79-34-5	1,1,2,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
96-18-4	1,2,3-Trichloropropane	U	1.22	ug/kg	0.366	1.22
108-86-1	Bromobenzene	U	1.22	ug/kg	0.366	1.22
103-65-1	n-Propylbenzene	U	1.22	ug/kg	0.366	1.22
95-49-8	2-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-82-8	Isopropylbenzene	U	1.22	ug/kg	0.366	1.22
108-67-8	1,3,5-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
106-43-4	4-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-06-6	tert-Butylbenzene	U	1.22	ug/kg	0.366	1.22
95-63-6	1,2,4-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
135-98-8	sec-Butylbenzene	U	1.22	ug/kg	0.366	1.22
99-87-6	4-Isopropyltoluene	U	1.22	ug/kg	0.366	1.22
541-73-1	1,3-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
106-46-7	1,4-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
104-51-8	n-Butylbenzene	U	1.22	ug/kg	0.366	1.22
96-12-8	1,2-Dibromo-3-chloropropane	U	1.22	ug/kg	0.366	1.22
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.10	ug/kg	1.95	6.10
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
95-50-1	1,2-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22

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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197006	Date Received: 02/26/2010 08:45	
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7540	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 20:42	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b616.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: 10-2121
Lab Sample ID: 248197006

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

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

Client ID: RE36-10-7540
Batch ID: 962059
Run Date: 03/06/2010 20:42
Prep Date: 03/05/2010 16:24
Data File: 7b616.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
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: 10-2121**Matrix Type: SOLID****CAP Column (1) : DB-624**

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1202063558	LCS for batch 962058	91	94	96
1202063559	LCS for batch 962058	89	100	95
1202063555	MB for batch 962058	96	104	97
248197002	RE36-10-7403	91	106	107
248197003	RE36-10-7406	88	104	103
248197004	RE36-10-7404	90	100	93
248197005	RE36-10-7516	93	98	96
248197006	RE36-10-7540	88	100	95
248197007	RE36-10-7426	85	102	96
248197008	RE36-10-7432	89	101	96
248197010	RE36-10-7434	84	110	108
1202063556	RE36-10-7405PS	85	104	108
1202063557	RE36-10-7405PSD	87	104	107
1202063560	LCS for batch 962058	87	95	93
1202063561	LCS for batch 962058	90	101	92
1202078255	MB for batch 962058	96	101	98
248197011	RE36-10-7425	86	111	116
248197012	RE36-10-7429	89	126	115
1202078257	LCS for batch 962058	89	91	97
1202078258	LCS for batch 962058	88	94	94
1202078256	MB for batch 962058	96	98	102
248197001	RE36-10-7405	93	102	124
248197009	RE36-10-7431	92	99	118
248197013	RE36-10-7433	96	102	115

Surrogate**Acceptance Limits**

DCED4 = 1,2-Dichloroethane-d4

(66%-134%)

TOL = Toluene-d8

(71%-128%)

BFB = Bromofluorobenzene

(65%-130%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 6

SDG Number: 10-2121

Sample Type: Post Spike

Client ID: RE36-10-7405PS

Matrix: R

Lab Sample ID: 1202063556

%Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/06/2010 23:30

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	29.1	58	39-148
74-87-3	PS Chloromethane	50.0	0.00 U	25.7	51	42-131
75-01-4	PS Vinyl chloride	50.0	0.00 U	34.4	69	50-127
74-83-9	PS Bromomethane	50.0	0.00 U	21.7	43	26-135
75-00-3	PS Chloroethane	50.0	0.00 U	33.8	68	54-128
75-69-4	PS Trichlorofluoromethane	50.0	0.00 U	28.0	56	55-138
67-64-1	PS Acetone	250	0.00 U	63.8	26	20-144
75-35-4	PS 1,1-Dichloroethylene	50.0	0.00 U	29.1	58	55-128
74-88-4	PS Iodomethane	250	0.00 U	101	40 *	47-132
75-09-2	PS Methylene chloride	50.0	2.45 J	30.9	57	56-123
75-15-0	PS Carbon disulfide	250	0.00 U	140	56	53-133
156-60-5	PS trans-1,2-Dichloroethylene	50.0	0.00 U	24.5	49 *	57-119
75-34-3	PS 1,1-Dichloroethane	50.0	0.00 U	29.8	60 *	62-125
78-93-3	PS 2-Butanone	250	0.00 U	79.4	32	30-150
156-59-2	PS cis-1,2-Dichloroethylene	50.0	0.00 U	24.9	50 *	60-124
594-20-7	PS 2,2-Dichloropropane	50.0	0.00 U	27.1	54 *	56-129
67-66-3	PS Chloroform	50.0	0.00 U	26.8	54 *	62-120
74-97-5	PS Bromochloromethane	50.0	0.00 U	28.2	56	51-135
71-55-6	PS 1,1,1-Trichloroethane	50.0	0.00 U	26.9	54 *	58-129
563-58-6	PS 1,1-Dichloropropene	50.0	0.00 U	24.6	49 *	59-126
56-23-5	PS Carbon tetrachloride	50.0	0.00 U	24.6	49 *	55-132
107-06-2	PS 1,2-Dichloroethane	50.0	0.00 U	23.7	47 *	54-121

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 6

SDG Number: 10-2121

Sample Type: Post Spike

Client ID: RE36-10-7405PS

Matrix: R

Lab Sample ID: 1202063556

% Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/06/2010 23:30

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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 26.2	52 *	58-120
79-01-6	PS Trichloroethylene	50.0	0.00	U 23.9	48 *	54-130
78-87-5	PS 1,2-Dichloropropane	50.0	0.00	U 27.7	55 *	59-121
75-27-4	PS Bromodichloromethane	50.0	0.00	U 24.0	48 *	57-130
74-95-3	PS Dibromomethane	50.0	0.00	U 24.3	49 *	57-124
108-10-1	PS 4-Methyl-2-pentanone	250	0.00	U 116	46	40-137
10061-01-5	PS cis-1,3-Dichloropropylene	50.0	0.00	U 18.2	36 *	50-131
108-88-3	PS Toluene	50.0	0.00	U 24.9	50 *	54-119
10061-02-6	PS trans-1,3-Dichloropropylene	50.0	0.00	U 18.6	37 *	47-133
79-00-5	PS 1,1,2-Trichloroethane	50.0	0.00	U 26.7	53 *	60-130
591-78-6	PS 2-Hexanone	250	0.00	U 50.6	20 *	30-139
142-28-9	PS 1,3-Dichloropropane	50.0	0.00	U 24.8	50 *	59-125
127-18-4	PS Tetrachloroethylene	50.0	0.00	U 25.9	52	50-126
124-48-1	PS Dibromochloromethane	50.0	0.00	U 22.4	45 *	54-131
106-93-4	PS 1,2-Dibromoethane	50.0	0.00	U 21.9	44 *	55-127
108-90-7	PS Chlorobenzene	50.0	0.00	U 20.6	41 *	50-130
100-41-4	PS Ethylbenzene	50.0	0.00	U 22.6	45 *	50-121
179601-23-1	PS m,p-Xylenes	100	0.00	U 44.3	44 *	47-125
95-47-6	PS o-Xylene	50.0	0.00	U 22.6	45 *	51-127
100-42-5	PS Styrene	50.0	0.00	U 15.7	31 *	41-136
75-25-2	PS Bromoform	50.0	0.00	U 26.5	53	48-143
79-34-5	PS 1,1,2,2-Tetrachloroethane	50.0	0.00	U 29.0	58	52-129

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Post Spike

Client ID: RE36-10-7405PS

Matrix: R

Lab Sample ID: 1202063556

% Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/06/2010 23:30

Dilution: 1

Analyst: AXO1

Pren Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

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 27.3	55 *	56-139
108-86-1	PS Bromobenzene	50.0	0.00	U 23.6	47 *	54-125
103-65-1	PS n-Propylbenzene	50.0	0.00	U 27.5	55	46-127
95-49-8	PS 2-Chlorotoluene	50.0	0.00	U 25.5	51	47-130
98-82-8	PS Isopropylbenzene	50.0	0.00	U 31.7	63	42-126
108-67-8	PS 1,3,5-Trimethylbenzene	50.0	0.00	U 27.7	55	44-132
106-43-4	PS 4-Chlorotoluene	50.0	0.00	U 20.1	40 *	46-127
98-06-6	PS tert-Butylbenzene	50.0	0.00	U 31.4	63	48-136
95-63-6	PS 1,2,4-Trimethylbenzene	50.0	0.00	U 24.4	49	42-132
135-98-8	PS sec-Butylbenzene	50.0	0.00	U 28.3	57	47-130
99-87-6	PS 4-Isopropyltoluene	50.0	0.00	U 17.4	35 *	36-142
541-73-1	PS 1,3-Dichlorobenzene	50.0	0.00	U 18.1	36 *	41-130
106-46-7	PS 1,4-Dichlorobenzene	50.0	0.00	U 16.9	34 *	41-126
104-51-8	PS n-Butylbenzene	50.0	0.00	U 20.3	41	37-136
96-12-8	PS 1,2-Dibromo-3-chloropropane	50.0	0.00	U 18.0	36 *	42-143
630-20-6	PS 1,1,1,2-Tetrachloroethane	50.0	0.00	U 26.0	52 *	58-127
95-50-1	PS 1,2-Dichlorobenzene	50.0	0.00	U 17.4	35 *	42-128

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Post Spike Duplicate

Client ID: RE36-10-7405PSD

Matrix: R

Lab Sample ID: 1202063557

%Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/07/2010 00:04

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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 31.0	62	39-148	6	0-19
74-87-3	PSD Chloromethane	50.0	0.00	U 25.7	51	42-131	0	0-23
75-01-4	PSD Vinyl chloride	50.0	0.00	U 34.2	68	50-127	0	0-23
74-83-9	PSD Bromomethane	50.0	0.00	U 21.9	44	26-135	1	0-22
75-00-3	PSD Chloroethane	50.0	0.00	U 33.8	68	54-128	0	0-25
75-69-4	PSD Trichlorofluoromethane	50.0	0.00	U 31.2	62	55-138	11	0-21
67-64-1	PSD Acetone	250	0.00	U 71.4	29	20-144	11	0-22
75-35-4	PSD 1,1-Dichloroethylene	50.0	0.00	U 29.8	60	55-128	2	0-20
74-88-4	PSD Iodomethane	250	0.00	U 102	41 *	47-132	1	0-20
75-09-2	PSD Methylene chloride	50.0	2.45	J 31.0	57	56-123	0	0-20
75-15-0	PSD Carbon disulfide	250	0.00	U 135	54	53-133	3	0-22
156-60-5	PSD trans-1,2-Dichloroethylene	50.0	0.00	U 24.2	48 *	57-119	1	0-20
75-34-3	PSD 1,1-Dichloroethane	50.0	0.00	U 30.0	60 *	62-125	1	0-20
78-93-3	PSD 2-Butanone	250	0.00	U 81.7	33	30-150	3	0-21
156-59-2	PSD cis-1,2-Dichloroethylene	50.0	0.00	U 25.2	50 *	60-124	1	0-20
594-20-7	PSD 2,2-Dichloropropane	50.0	0.00	U 29.5	59	56-129	9	0-20
67-66-3	PSD Chloroform	50.0	0.00	U 26.7	53 *	62-120	0	0-25
74-97-5	PSD Bromochloromethane	50.0	0.00	U 27.2	54	51-135	3	0-20
71-55-6	PSD 1,1,1-Trichloroethane	50.0	0.00	U 29.8	60	58-129	10	0-20
563-58-6	PSD 1,1-Dichloropropene	50.0	0.00	U 25.3	51 *	59-126	3	0-20
56-23-5	PSD Carbon tetrachloride	50.0	0.00	U 27.0	54 *	55-132	9	0-20
107-06-2	PSD 1,2-Dichloroethane	50.0	0.00	U 22.9	46 *	54-121	3	0-20

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Post Spike Duplicate

Client ID: RE36-10-7405PSD

Matrix: R

Lab Sample ID: 1202063557

%Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/07/2010 00:04

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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 26.4	53 *	58-120	1	0-20
79-01-6	PSD Trichloroethylene	50.0	0.00	U 24.1	48 *	54-130	1	0-23
78-87-5	PSD 1,2-Dichloropropane	50.0	0.00	U 27.8	56 *	59-121	0	0-20
75-27-4	PSD Bromodichloromethane	50.0	0.00	U 23.9	48 *	57-130	0	0-20
74-95-3	PSD Dibromomethane	50.0	0.00	U 22.9	46 *	57-124	6	0-20
108-10-1	PSD 4-Methyl-2-pentanone	250	0.00	U 125	50	40-137	7	0-25
10061-01-5	PSD cis-1,3-Dichloropropylene	50.0	0.00	U 17.0	34 *	50-131	7	0-20
108-88-3	PSD Toluene	50.0	0.00	U 26.0	52 *	54-119	4	0-23
10061-02-6	PSD trans-1,3-Dichloropropylene	50.0	0.00	U 17.6	35 *	47-133	5	0-24
79-00-5	PSD 1,1,2-Trichloroethane	50.0	0.00	U 27.4	55 *	60-130	3	0-20
591-78-6	PSD 2-Hexanone	250	0.00	U 58.2	23 *	30-139	14	0-21
142-28-9	PSD 1,3-Dichloropropane	50.0	0.00	U 25.8	52 *	59-125	4	0-20
127-18-4	PSD Tetrachloroethylene	50.0	0.00	U 26.6	53	50-126	3	0-20
124-48-1	PSD Dibromochloromethane	50.0	0.00	U 24.2	48 *	54-131	8	0-23
106-93-4	PSD 1,2-Dibromoethane	50.0	0.00	U 21.9	44 *	55-127	0	0-23
108-90-7	PSD Chlorobenzene	50.0	0.00	U 21.2	42 *	50-130	3	0-24
100-41-4	PSD Ethylbenzene	50.0	0.00	U 23.1	46 *	50-121	2	0-24
179601-23-1	PSD m,p-Xylenes	100	0.00	U 46.0	46 *	47-125	4	0-25
95-47-6	PSD o-Xylene	50.0	0.00	U 23.3	47 *	51-127	3	0-24
100-42-5	PSD Styrene	50.0	0.00	U 16.7	33 *	41-136	6	0-24
75-25-2	PSD Bromoform	50.0	0.00	U 27.5	55	48-143	4	0-20
79-34-5	PSD 1,1,2,2-Tetrachloroethane	50.0	0.00	U 30.2	60	52-129	4	0-20

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Post Spike Duplicate

Client ID: RE36-10-7405PSD

Matrix: R

Lab Sample ID: 1202063557

%Moisture: 17.5

Instrument: VOA7.I

Analysis Date: 03/07/2010 00:04

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	29.6	59	56-139	8	0-34
108-86-1	PSD Bromobenzene	50.0	0.00	U	22.5	45 *	54-125	5	0-22
103-65-1	PSD n-Propylbenzene	50.0	0.00	U	27.6	55	46-127	0	0-25
95-49-8	PSD 2-Chlorotoluene	50.0	0.00	U	25.4	51	47-130	0	0-24
98-82-8	PSD Isopropylbenzene	50.0	0.00	U	33.1	66	42-126	4	0-22
108-67-8	PSD 1,3,5-Trimethylbenzene	50.0	0.00	U	28.6	57	44-132	3	0-25
106-43-4	PSD 4-Chlorotoluene	50.0	0.00	U	20.2	40 *	46-127	0	0-26
98-06-6	PSD tert-Butylbenzene	50.0	0.00	U	32.3	65	48-136	3	0-24
95-63-6	PSD 1,2,4-Trimethylbenzene	50.0	0.00	U	25.0	50	42-132	2	0-26
135-98-8	PSD sec-Butylbenzene	50.0	0.00	U	28.8	58	47-130	2	0-27
99-87-6	PSD 4-Isopropyltoluene	50.0	0.00	U	18.2	36	36-142	5	0-27
541-73-1	PSD 1,3-Dichlorobenzene	50.0	0.00	U	18.4	37 *	41-130	2	0-25
106-46-7	PSD 1,4-Dichlorobenzene	50.0	0.00	U	17.0	34 *	41-126	1	0-25
104-51-8	PSD n-Butylbenzene	50.0	0.00	U	21.1	42	37-136	4	0-29
96-12-8	PSD 1,2-Dibromo-3-chloropropane	50.0	0.00	U	17.7	35 *	42-143	2	0-21
630-20-6	PSD 1,1,1,2-Tetrachloroethane	50.0	0.00	U	27.6	55 *	58-127	6	0-20
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.00	U	17.5	35 *	42-128	1	0-24

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202063558

Instrument: VOA7.I

Analysis Date: 03/06/2010 14:06

Dilution: 1

Analyst: AXO1

Pre Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
75-71-8	LCS Dichlorodifluoromethane	50.0	0.0	49.1	98	52-151
74-87-3	LCS Chloromethane	50.0	0.0	43.4	87	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	47.1	94	66-130
74-83-9	LCS Bromomethane	50.0	0.0	46.8	94	70-126
75-00-3	LCS Chloroethane	50.0	0.0	48.8	98	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	51.2	102	73-143
67-64-1	LCS Acetone	250	0.0	206	82	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	48.6	97	71-129
74-88-4	LCS Iodomethane	250	0.0	229	91	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	42.4	85	64-121
75-15-0	LCS Carbon disulfide	250	0.0	245	98	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	45.2	90	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	46.5	93	73-120
78-93-3	LCS 2-Butanone	250	0.0	204	81	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	43.0	86	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	50.3	101	73-134
67-66-3	LCS Chloroform	50.0	0.0	43.4	87	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	43.1	86	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	48.7	97	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	48.5	97	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	48.7	97	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	39.8	80	65-120

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202063558

Instrument: VOA7.I

Analysis Date: 03/06/2010 14:06

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	44.8	90	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	47.0	94	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	44.1	88	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	44.2	88	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	44.6	89	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	227	91	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	46.7	93	78-127
108-88-3	LCS Toluene	50.0	0.0	46.4	93	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	46.4	93	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	43.8	88	75-120
591-78-6	LCS 2-Hexanone	250	0.0	185	74	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	44.3	89	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	49.6	99	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	46.3	93	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	46.5	93	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	45.9	92	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	44.0	88	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	95.3	95	76-120
95-47-6	LCS o-Xylene	50.0	0.0	48.2	96	76-122
100-42-5	LCS Styrene	50.0	0.0	47.2	94	75-125
75-25-2	LCS Bromoform	50.0	0.0	48.6	97	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	44.4	89	72-122

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID:1202063558

Instrument: VOA7.I

Analysis Date: 03/06/2010 14:06

Dilution: 1

Analyst: AXO1

Prep Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

CAS No	Paramname	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	43.8	88	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	46.4	93	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	44.3	89	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	43.9	88	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	44.8	90	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	46.2	92	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	44.5	89	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	48.2	96	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	45.6	91	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	47.3	95	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	49.3	99	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	45.7	91	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	46.2	92	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	48.5	97	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	50.4	101	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	47.9	96	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	46.6	93	75-120

Volatile

Page 1 of 1

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID:1202063559

Instrument: VOA7.I

Analysis Date: 03/06/2010 15:13

Dilution: 1

Analyst: AXO1

Pre Batch ID 962058

Purge Vol: 5 mL

Batch ID: 962059

CAS No	Paramname	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	271	108	67-140

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202063560

Instrument: VOA7.I

Analysis Date: 03/07/2010 01:46

Dilution: 1

Analyst: AXO1

Pre Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	33.6	67	52-151
74-87-3	LCS Chloromethane	50.0	0.0	37.1	74	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	41.2	82	66-130
74-83-9	LCS Bromomethane	50.0	0.0	40.3	81	70-126
75-00-3	LCS Chloroethane	50.0	0.0	41.9	84	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	37.8	76	73-143
67-64-1	LCS Acetone	250	0.0	179	71	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	39.5	79	71-129
74-88-4	LCS Iodomethane	250	0.0	213	85	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	41.2	82	64-121
75-15-0	LCS Carbon disulfide	250	0.0	208	83	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	39.7	79	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	42.5	85	73-120
78-93-3	LCS 2-Butanone	250	0.0	186	75	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	40.1	80	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	39.0	78	73-134
67-66-3	LCS Chloroform	50.0	0.0	39.9	80	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	44.8	90	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	39.6	79	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	39.9	80	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	37.8	76	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	39.5	79	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202063560

Instrument: VOA7.I

Analysis Date: 03/07/2010 01:46

Dilution: 1

Analyst: AXO1

Preo Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	42.1	84	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	41.8	84	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	43.5	87	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	42.6	85	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	43.1	86	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	214	86	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	44.2	88	78-127
108-88-3	LCS Toluene	50.0	0.0	42.2	84	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	44.9	90	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	183	73	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	45.3	91	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	40.7	81	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	46.0	92	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	46.6	93	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	43.8	88	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	40.6	81	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	87.2	87	76-120
95-47-6	LCS o-Xylene	50.0	0.0	45.9	92	76-122
100-42-5	LCS Styrene	50.0	0.0	46.2	92	75-125
75-25-2	LCS Bromoform	50.0	0.0	46.9	94	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	42.9	86	72-122

Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202063560

Instrument: VOA7.I

Analysis Date: 03/07/2010 01:46

Dilution: 1

Analyst: AXO1

Prep Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

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	41.2	82	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	45.5	91	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	39.8	80	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	41.3	83	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	40.0	80	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	42.7	85	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	40.2	80	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	42.6	85	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	41.9	84	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	41.7	83	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	42.8	86	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	43.2	86	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	43.5	87	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	40.3	81	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	46.0	92	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	45.0	90	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	44.7	89	75-120

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID:1202063561

Instrument: VOA7.I

Analysis Date: 03/07/2010 02:19

Dilution: 1

Analyst: AXO1

Pre Batch ID 962058

Purge Vol: 5 mL

Batch ID: 962059

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	92	67-140

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 3

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202078257

Instrument: VOA7.I

Analysis Date: 03/09/2010 11:38

Dilution: 1

Analyst: AXO1

Prep Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

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	46.2	92	52-151
74-87-3	LCS Chloromethane	50.0	0.0	35.0	70	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	37.8	76	66-130
74-83-9	LCS Bromomethane	50.0	0.0	44.2	88	70-126
75-00-3	LCS Chloroethane	50.0	0.0	45.5	91	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	49.1	98	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	44.7	89	71-129
74-88-4	LCS Iodomethane	250	0.0	226	90	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	209	83	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	40.4	81	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	44.0	88	73-120
78-93-3	LCS 2-Butanone	250	0.0	174	70	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	39.6	79	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	45.4	91	73-134
67-66-3	LCS Chloroform	50.0	0.0	43.2	86	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	47.1	94	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	43.4	87	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	45.5	91	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	38.7	77	65-120

Volatile
Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202078257

Instrument: VOA7.I

Analysis Date: 03/09/2010 11:38

Dilution: 1

Analyst: AXO1

Prep Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

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	42.5	85	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	45.4	91	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	41.6	83	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	46.3	93	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	46.7	93	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	205	82	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	47.4	95	78-127
108-88-3	LCS Toluene	50.0	0.0	42.7	85	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	46.6	93	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	45.0	90	75-120
591-78-6	LCS 2-Hexanone	250	0.0	157	63	40-153
142-28-9	LCS 1,3-Dichloropropane	50.0	0.0	43.0	86	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	43.4	87	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	49.3	99	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	49.3	99	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	44.3	89	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	39.5	79	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	86.7	87	76-120
95-47-6	LCS o-Xylene	50.0	0.0	44.7	89	76-122
100-42-5	LCS Styrene	50.0	0.0	44.7	89	75-125
75-25-2	LCS Bromoform	50.0	0.0	52.3	105	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	44.6	89	72-122

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 3

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202078257

Instrument: VOA7.I

Analysis Date: 03/09/2010 11:38

Dilution: 1

Analyst: AXO1

Pren Batch II 962058

Purge Vol: 5 mL

Batch ID: 962059

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	47.5	95	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	47.3	95	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	39.3	79	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	40.3	81	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	41.5	83	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	42.8	86	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	43.3	87	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	44.5	89	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	43.0	86	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	42.6	85	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	45.1	90	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	45.5	91	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	42.6	85	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	49.5	99	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	47.7	95	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	46.9	94	75-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 1

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 962058

Matrix: SOIL

Lab Sample ID: 1202078258

Instrument: VOA7.1

Analysis Date: 03/09/2010 12:45

Dilution: 1

Analyst: AXO1

Prep Batch ID: 962058

Purge Vol: 5 mL

Batch ID: 962059

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	252	101	67-140

Method Blank Summary

Page 1 of 1

SDG Number:	10-2121	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 962058	Instrument ID:	VOA7.I	Data File:	7b608LL.d
Lab Sample ID:	1202063555	Prep Date:	03/06/2010 11:30	Analyzed:	03/06/10 16:19
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 962058	1202063558	7b604LL.d	03/06/10	1406
02 LCS for batch 962058	1202063559	7b606LL.d	03/06/10	1513
03 RE36-10-7403	248197002	7b612.d	03/06/10	1831
04 RE36-10-7406	248197003	7b613.d	03/06/10	1903
05 RE36-10-7404	248197004	7b614.d	03/06/10	1936
06 RE36-10-7516	248197005	7b615.d	03/06/10	2009
07 RE36-10-7540	248197006	7b616.d	03/06/10	2042
08 RE36-10-7426	248197007	7b617.d	03/06/10	2116
09 RE36-10-7432	248197008	7b618.d	03/06/10	2150
10 RE36-10-7434	248197010	7b620.d	03/06/10	2256
11 RE36-10-7405PS	1202063556	7b621.d	03/06/10	2330
12 RE36-10-7405PSD	1202063557	7b622.d	03/07/10	0004

Method Blank Summary

Page 1 of 1

SDG Number:	10-2121	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 962058	Instrument ID:	VOA7.I	Data File:	7b627LA.d
Lab Sample ID:	1202078255	Prep Date:	03/06/2010 18:00	Analyzed:	03/07/10 02:53
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 962058	1202063560	7b625LA.d	03/07/10	0146
02 LCS for batch 962058	1202063561	7b626LA.d	03/07/10	0219
03 RE36-10-7425	248197011	7b628.d	03/07/10	0327
04 RE36-10-7429	248197012	7b629.d	03/07/10	0400

Method Blank Summary

Page 1 of 1

SDG Number:	10-2121	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 962058	Instrument ID:	VOA7.I	Data File:	7c208LA.d
Lab Sample ID:	1202078256	Prep Date:	03/09/2010 09:00	Analyzed:	03/09/10 13:54
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 962058	1202078257	7c204LA.d	03/09/10	1138
02 LCS for batch 962058	1202078258	7c206LA.d	03/09/10	1245
03 RE36-10-7405	248197001	7c214.d	03/09/10	1726
04 RE36-10-7431	248197009	7c215.d	03/09/10	1800
05 RE36-10-7433	248197013	7c218.d	03/09/10	1940

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: VOA7.I

Injection Date/Time: 06-MAR-10 12:41

Column Description: db624

Lab File ID /030610v7/7b602BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	29.4
75	30.0 - 60.0% of mass 95	52.7
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	7.2
176	95.0 - 101.0% of mass 174	99.5
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	W7VM100306-01	7b602.d	06-MAR-10 12:41
LCS	1202063558	7b604LL.d	06-MAR-10 14:06
VSTD250S	W7VM100306-04	7b605.d	06-MAR-10 14:39
SLCS	1202063559	7b606LL.d	06-MAR-10 15:13
BLANK	1202063555	7b608LL.d	06-MAR-10 16:19
RE36-10-7403	248197002	7b612.d	06-MAR-10 18:31
RE36-10-7406	248197003	7b613.d	06-MAR-10 19:03
RE36-10-7404	248197004	7b614.d	06-MAR-10 19:36
RE36-10-7516	248197005	7b615.d	06-MAR-10 20:09
RE36-10-7540	248197006	7b616.d	06-MAR-10 20:42
RE36-10-7426	248197007	7b617.d	06-MAR-10 21:16
RE36-10-7432	248197008	7b618.d	06-MAR-10 21:50
RE36-10-7434	248197010	7b620.d	06-MAR-10 22:56
RE36-10-7405MS	1202063556	7b621.d	06-MAR-10 23:30
RE36-10-7405MSD	1202063557	7b622.d	07-MAR-10 00:04

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: VOA7.I

Injection Date/Time: 07-MAR-10 01:12

Column Description: db624

Lab File ID /030610v7/7b624BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	30.7
75	30.0 - 60.0% of mass 95	53.6
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	71.9
175	5.0 - 9.0% of mass 174	7.2
176	95.0 - 101.0% of mass 174	96
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	W7VM100306-05	7b624.d	07-MAR-10 01:12
LCS	1202063560	7b625LA.d	07-MAR-10 01:46
VSTD250S	W7VM100306-04	7b626.d	07-MAR-10 02:19
SLCS	1202063561	7b626LA.d	07-MAR-10 02:19
BLANK	1202078255	7b627LA.d	07-MAR-10 02:53
RE36-10-7425	248197011	7b628.d	07-MAR-10 03:27
RE36-10-7429	248197012	7b629.d	07-MAR-10 04:00

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: VOA7.I

Injection Date/Time: 09-MAR-10 10:30

Column Description: db624

Lab File ID /030910v7/7c202BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	24.8
75	30.0 - 60.0% of mass 95	49
96	5.0 - 9.0% of mass 95	6.8
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	7.2
176	95.0 - 101.0% of mass 174	98.8
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	W7VM100309-01	7c202.d	09-MAR-10 10:30
LCS	1202078257	7c204LA.d	09-MAR-10 11:38
VSTD250S	W7VM100309-04	7c205.d	09-MAR-10 12:11
SLCS	1202078258	7c206LA.d	09-MAR-10 12:45
BLANK	1202078256	7c208LA.d	09-MAR-10 13:54
RE36-10-7405	248197001	7c214.d	09-MAR-10 17:26
RE36-10-7431	248197009	7c215.d	09-MAR-10 18:00
RE36-10-7433	248197013	7c218.d	09-MAR-10 19:40

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: VOA7.1

Injection Date/Time: 17-FEB-10 15:29

Column Description: db624

Lab File ID /021710v7/7z309.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	30.8
75	30.0 - 60.0% of mass 95	54.2
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6
174	50.0 - 100.0% of mass 95	63
175	5.0 - 9.0% of mass 174	7.2
176	95.0 - 101.0% of mass 174	97.2
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	W7VM100217-06	7z310.d	17-FEB-10 16:02
VSTD002	W7VM100217-07	7z311.d	17-FEB-10 16:35
VSTD005	W7VM100217-08	7z312.d	17-FEB-10 17:09
VSTD010	W7VM100217-09	7z313.d	17-FEB-10 17:44
VSTD020	W7VM100217-10	7z314.d	17-FEB-10 18:20
VSTD050	W7VM100217-11	7z315.d	17-FEB-10 18:55
VSTD100	W7VM100217-12	7z316.d	17-FEB-10 19:30
VSTD0005	W7VM100217-13	7z318.d	17-FEB-10 20:39
VSTD005S	W7VM100217-14	7z319.d	17-FEB-10 21:14
VSTD010S	W7VM100217-15	7z320.d	17-FEB-10 21:49
VSTD025S	W7VM100217-16	7z321.d	17-FEB-10 22:24
VSTD050S	W7VM100217-17	7z322.d	17-FEB-10 22:59
VSTD100S	W7VM100217-18	7z323.d	17-FEB-10 23:33
VSTD250S	W7VM100217-19	7z324.d	18-FEB-10 00:08
VSTD500S	W7VM100217-20	7z325.d	18-FEB-10 00:42
ICV	W7VM100217-22	7z328.d	18-FEB-10 02:27
SICV	W7VM100217-23	7z329.d	18-FEB-10 03:03

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-2121

Instrument: VOA7.1

STD Analysis Time: 06-MAR-10 12:41

GC Column: DB-624

Data File: 7b602.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	878600		15.3	637811		18.7	313865		21.0
Upper Limit	1757200		15.8	1275622		19.2	627730		21.5
Lower Limit	439300		14.8	318906		18.2	156933		20.5
Sample ID									
BLK01LCS	1028235		15.3	749792		18.7	379784		21.0
BLK01SLCS	1145994		15.3	777797		18.7	382997		21.0
BLK01	1032858		15.3	677043		18.7	323529		21.0
RE36-10-7403	814168		15.3	507501		18.7	182987		21.0
RE36-10-7406	793583		15.3	509564		18.7	191335		21.0
RE36-10-7404	780893		15.3	522479		18.7	237888		21.0
RE36-10-7516	749444		15.3	500047		18.7	216715		21.0
RE36-10-7540	743056		15.3	496802		18.7	224627		21.0
RE36-10-7426	718079		15.3	458618		18.7	187153		21.0
RE36-10-7432	742419		15.3	487808		18.7	207506		21.0
RE36-10-7434	698256		15.3	401289		18.7	122775	*	21.0
RE36-10-7405MS	691001		15.3	444722		18.7	158018		21.0
RE36-10-7405MSD	704249		15.3	439730		18.7	157177		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: 10-2121

Instrument: VOA7.I

STD Analysis Time: 07-MAR-10 01:12

GC Column: DB-624

Data File: 7b624.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	754226		15.3	550746		18.7	285745		21.0
Upper Limit	1508452		15.8	1101492		19.2	571490		21.5
Lower Limit	377113		14.8	275373		18.2	142873		20.5
Sample ID									
BLK02LCS	833571		15.3	592082		18.7	298389		21.0
BLK02SLCS	931065		15.3	617537		18.7	307600		21.0
BLK02	866799		15.3	589790		18.7	281455		21.0
RE36-10-7425	800460		15.3	473334		18.7	150152		21.0
RE36-10-7429	689893		15.3	336117		18.7	84507	*	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: 10-2121

Instrument: VOA7.I

STD Analysis Time: 09-MAR-10 10:30

GC Column: DB-624

Data File: 7c202.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT	Area	#	RT	Area	#	RT
12 Hour STD	996394		15.3	730438		18.7	355370		21.0
Upper Limit	1992788		15.8	1460876		19.2	710740		21.5
Lower Limit	498197		14.8	365219		18.2	177685		20.5
Sample ID									
BLK03LCS	1274675		15.3	938839		18.7	466350		21.0
BLK03SLCS	1296534		15.3	919145		18.7	450982		21.0
BLK03	1162094		15.3	787193		18.7	376079		21.0
RE36-10-7405	1524546		15.3	924557		18.7	306267		21.0
RE36-10-7431	1426633		15.3	884469		18.7	315295		21.0
RE36-10-7433	1188420		15.3	760573		18.7	298946		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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7J	Dilution: 1
Run Date: 03/06/2010 18:31	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b612.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.16	ug/kg	0.396	1.16
74-87-3	Chloromethane	U	1.16	ug/kg	0.349	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.349	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.349	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.349	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.349	1.16
67-64-1	Acetone	U	5.82	ug/kg	1.93	5.82
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
74-88-4	Iodomethane	U	5.82	ug/kg	1.86	5.82
75-09-2	Methylene chloride	U	5.82	ug/kg	2.33	5.82
75-15-0	Carbon disulfide	U	5.82	ug/kg	1.45	5.82
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.349	1.16
78-93-3	2-Butanone	U	5.82	ug/kg	1.75	5.82
156-59-2	cis-1,2-Dichloroethylene	U	1.16	ug/kg	0.349	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16
67-66-3	Chloroform	U	1.16	ug/kg	0.349	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.384	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.349	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.349	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.349	1.16
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.349	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.349	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.384	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.349	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.349	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.349	1.16
108-10-1	4-Methyl-2-pentanone	U	5.82	ug/kg	1.45	5.82
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.349	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.349	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.349	1.16
591-78-6	2-Hexanone	U	5.82	ug/kg	1.75	5.82
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.349	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.349	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.349	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.349	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.349	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 18:31	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:16	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b612.d	Column: DB-624	Level: LOW

CAS No.	Parinname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.349	1.16
179601-23-1	m,p-Xylenes	U	2.33	ug/kg	0.349	2.33
95-47-6	o-Xylene	U	1.16	ug/kg	0.349	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.349	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.349	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.349	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.349	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.349	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.349	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.349	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.349	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.349	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.349	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.349	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.349	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.349	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.82	ug/kg	1.86	5.82
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.349	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.349	1.16

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/030610v7/7b612.d
Report Date: 22-Mar-2010 21:12

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b612.d

Lab Smp Id: 248197002

Client Smp ID: RE36-10-7403

Inj Date : 06-MAR-2010 18:31

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197002|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 12

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	14.08920	% 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)	814168		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	507501		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	182987		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	320347		45.5412	53.0
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	875785		53.0213	61.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	256678		53.3256	62.1

ION RATIO REPORT

VOA REPORT

Data file: 7b612.d

Report Date: 03/08/2010 07:47

Lab. ID: 248197002

SampleType: SAMPLE

Injection Date: 06-MAR-2010 18:31

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197002|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10038	17.13	16.93	80-120	100	(T)
43	6757	17.13	16.93	218-278	67	(QT)
100	608707	17.13	16.94	0- 56	6063	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1059	19.82	19.53	80-120	100	(T)
175	13469	19.81	19.53	19- 79	1271	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b612.d
Report Date: 22-Mar-2010 21:12

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b612.d
Lab Smp Id: 248197002 Client Smp ID: RE36-10-7403
Inj Date : 06-MAR-2010 18:31
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197002|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA7.i/030610v7/7b612.d

Date : 06-MAR-2010 18:31

Client ID: RE36-10-7403

Sample Info: 1248197002196205911\VOA7.i

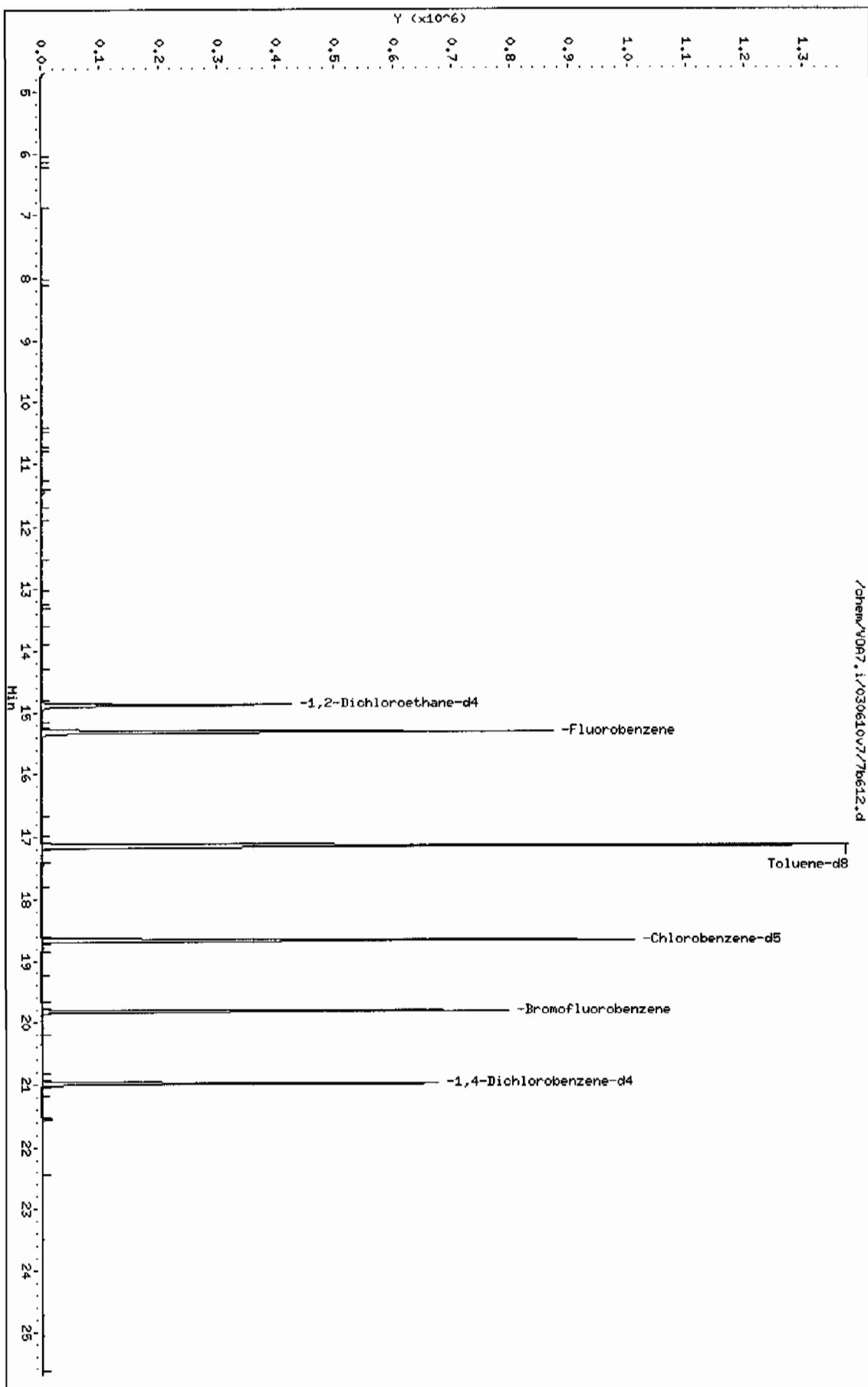
Column phase: DB-624

Page 1

Instrument: VOA7.i

Operator: RX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197004

Client ID: RE36-10-7404
 Batch ID: 962059
 Run Date: 03/06/2010 19:36
 Prep Date: 03/05/2010 16:20
 Data File: 7b614.d

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AX01
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 11.9
 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	1.14	ug/kg	0.386	1.14
74-87-3	Chloromethane	U	1.14	ug/kg	0.341	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.341	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.341	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.341	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.341	1.14
67-64-1	Acetone	U	5.68	ug/kg	1.89	5.68
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
74-88-4	Iodomethane	U	5.68	ug/kg	1.82	5.68
75-09-2	Methylene chloride	U	5.68	ug/kg	2.27	5.68
75-15-0	Carbon disulfide	U	5.68	ug/kg	1.42	5.68
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.341	1.14
78-93-3	2-Butanone	U	5.68	ug/kg	1.70	5.68
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.341	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14
67-66-3	Chloroform	U	1.14	ug/kg	0.341	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.375	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.341	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.341	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.341	1.14
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.341	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.341	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.375	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.341	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.341	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.341	1.14
108-10-1	4-Methyl-2-pentanone	U	5.68	ug/kg	1.42	5.68
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.341	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.341	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.341	1.14
591-78-6	2-Hexanone	U	5.68	ug/kg	1.70	5.68
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.341	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.341	1.14
124-48-1	Dihromochloromethane	U	1.14	ug/kg	0.341	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.341	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.341	1.14

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 19:36	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:20	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b614.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.14	ug/kg	0.341	1.14
179601-23-1	m,p-Xylenes	U	2.27	ug/kg	0.341	2.27
95-47-6	o-Xylene	U	1.14	ug/kg	0.341	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.341	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.341	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.341	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.341	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.341	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.341	1.14
108-67-8	1,3,5-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.341	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.341	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.341	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.341	1.14
99-87-6	4-Isopropyltoluene	U	1.14	ug/kg	0.341	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.341	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.341	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.68	ug/kg	1.82	5.68
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.341	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.341	1.14

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/030610v7/7b614.d

Lab Smp Id: 248197004

Client Smp ID: RE36-10-7404

Inj Date : 06-MAR-2010 19:36

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197004|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 14

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	11.94220	% 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)	780893	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	522479	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.981	20.992	(1.000)	237888	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	302474	44.8326	50.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	850009	49.9856	56.8
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	290932	46.4928	52.8

ION RATIO REPORT

VOA REPORT

Data file: 7b614.d

Report Date: 03/08/2010 07:47

Lab. ID: 248197004

SampleType: `SAMPLE

Injection Date: 06-MAR-2010 19:36

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197004|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9670	17.13	16.93	80-120	100	(T)
43	6463	17.13	16.93	218-278	67	(QT)
100	581656	17.13	16.94	0- 56	6015	(QT)

78	Ethylbenzene			CAS#: 100-41-4		
91	5661	18.67	18.76	80-120	100	(T)
106	713	18.67	18.76	2- 62	13	(T)

82	Bromoform			CAS#: 75-25-2		
173	1319	19.81	19.53	80-120	100	(T)
175	14175	19.81	19.53	19- 79	1074	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b614.d
Report Date: 22-Mar-2010 21:13

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b614.d
Lab Smp Id: 248197004 Client Smp ID: RE36-10-7404
Inj Date : 06-MAR-2010 19:36
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197004|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VD07.i/030610v7/7b614.d

Date: 06-MAR-2010 19:36

Client ID: RE36-10-7404

Sample Info: 1248197004|96205911|VD0711

Column phase: DB-624

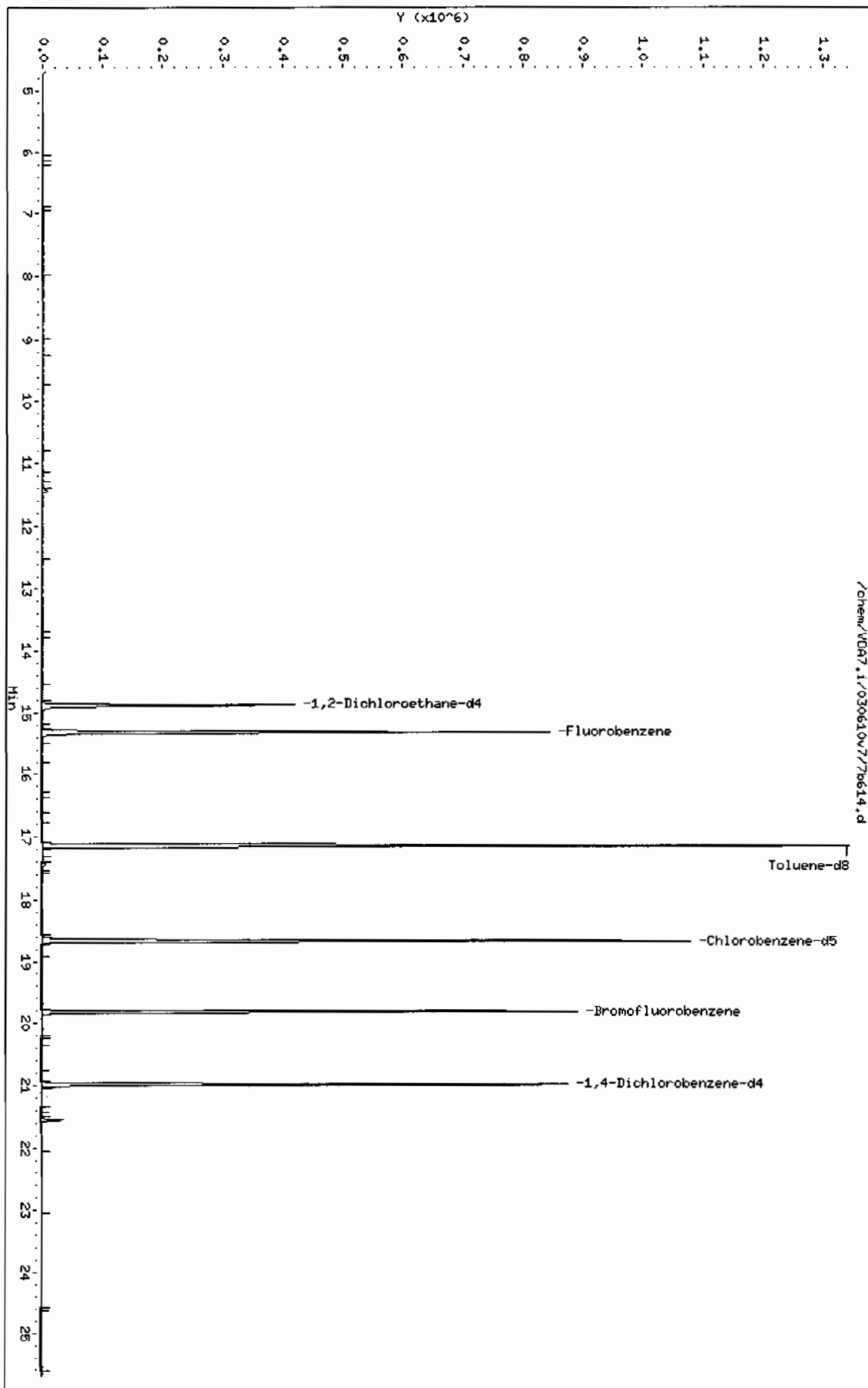
Page 1

Instrument: VD07.i

Operator: AX01

Column diameter: 0.25

/chem/VD07.i/030610v7/7b614.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 17:26	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c214.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.21	ug/kg	0.412	1.21
74-87-3	Chloromethane	U	1.21	ug/kg	0.364	1.21
75-01-4	Vinyl chloride	U	1.21	ug/kg	0.364	1.21
74-83-9	Bromomethane	U	1.21	ug/kg	0.364	1.21
75-00-3	Chloroethane	U	1.21	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane	U	1.21	ug/kg	0.364	1.21
67-64-1	Acetone	U	6.06	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
74-88-4	Iodomethane	U	6.06	ug/kg	1.94	6.06
75-09-2	Methylene chloride	J	2.97	ug/kg	2.42	6.06
75-15-0	Carbon disulfide	U	6.06	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane	U	1.21	ug/kg	0.364	1.21
78-93-3	2-Butanone	U	6.06	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene	U	1.21	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
67-66-3	Chloroform	U	1.21	ug/kg	0.364	1.21
74-97-5	Bromochloromethane	U	1.21	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane	U	1.21	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene	U	1.21	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride	U	1.21	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane	U	1.21	ug/kg	0.364	1.21
71-43-2	Benzene	U	1.21	ug/kg	0.364	1.21
79-01-6	Trichloroethylene	U	1.21	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane	U	1.21	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane	U	1.21	ug/kg	0.364	1.21
74-95-3	Dibromomethane	U	1.21	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone	U	6.06	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
108-88-3	Toluene	U	1.21	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene	U	1.21	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane	U	1.21	ug/kg	0.364	1.21
591-78-6	2-Hexanone	U	6.06	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane	U	1.21	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene	U	1.21	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane	U	1.21	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane	U	1.21	ug/kg	0.364	1.21
108-90-7	Chlorobenzene	U	1.21	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/09/2010 17:26	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:40	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c214.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.21	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes	U	2.42	ug/kg	0.364	2.42
95-47-6	o-Xylene	U	1.21	ug/kg	0.364	1.21
100-42-5	Styrene	U	1.21	ug/kg	0.364	1.21
75-25-2	Bromoform	U	1.21	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane	U	1.21	ug/kg	0.364	1.21
108-86-1	Bromobenzene	U	1.21	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene	U	1.21	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene	U	1.21	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene	U	1.21	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene	U	1.21	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene	U	1.21	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene	U	1.21	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene	U	1.21	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene	U	1.21	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane	U	1.21	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.21	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene	U	1.21	ug/kg	0.364	1.21

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
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/030910v7/7c214.d

Lab Smp Id: 248197001

Client Smp ID: RE36-10-7405

Inj Date : 09-MAR-2010 17:26

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197001|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 14

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	17.50750	% 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)	1524546	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	924557	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	306267	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	612382	46.4921	56.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1539876	51.1731	62.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	500058	62.0708	75.2
22 Methylene chloride	86	11.449	11.449	(0.747)	15276	2.45253	3.0(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7c214.d

Report Date: 03/10/2010 06:14

Lab. ID: 248197001

SampleType: SAMPLE

Injection Date: 09-MAR-2010 17:26

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197001|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	15276	11.45	11.45	80-120	100	()
84	24955	11.45	11.44	124-184	163	()
49	41154	11.44	11.44	230-290	269	()

53 Trichloroethylene				CAS#: 79-01-6		
95	128431	15.32	15.76	80-120	100	(T)
97	110574	15.31	15.76	36- 96	86	(T)
130	1518	15.76	15.76	58-118	1	(Q)

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	17137	17.13	16.93	80-120	100	(T)
43	16579	17.13	16.93	207-267	97	(QT)
100	1103287	17.13	16.94	0- 58	6438	(QT)

77 1,1,1,2-Tetrachloroethane				CAS#: 630-20-6		
131	4086	18.69	18.76	80-120	100	(T)
133	403	18.71	18.76	71-131	10	(Q)
119	312872	18.67	18.76	39- 99	7656	(QT)

79 m,p-Xylenes				CAS#:		
106	3784	18.87	18.87	80-120	100	()
91	7379	18.86	18.87	162-222	195	()

82 Bromoform				CAS#: 75-25-2		
173	3035	19.81	19.54	80-120	100	(T)
175	23108	19.81	19.54	19- 79	761	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
87	1,1,2,2-Tetrachloroethane			CAS#: 79-34-5		
83	2345	19.51	19.89	80-120	100	(T)
85	527	19.44	19.89	38- 98	22	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030910v7/7c214.d
Report Date: 22-Mar-2010 21:33

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030910v7/7c214.d
Lab Smp Id: 248197001 Client Smp ID: RE36-10-7405
Inj Date : 09-MAR-2010 17:26
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197001|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.1/030910v7/7c214.d

Date: 09-MAR-2010 17:26

Client ID: RE36-10-7405

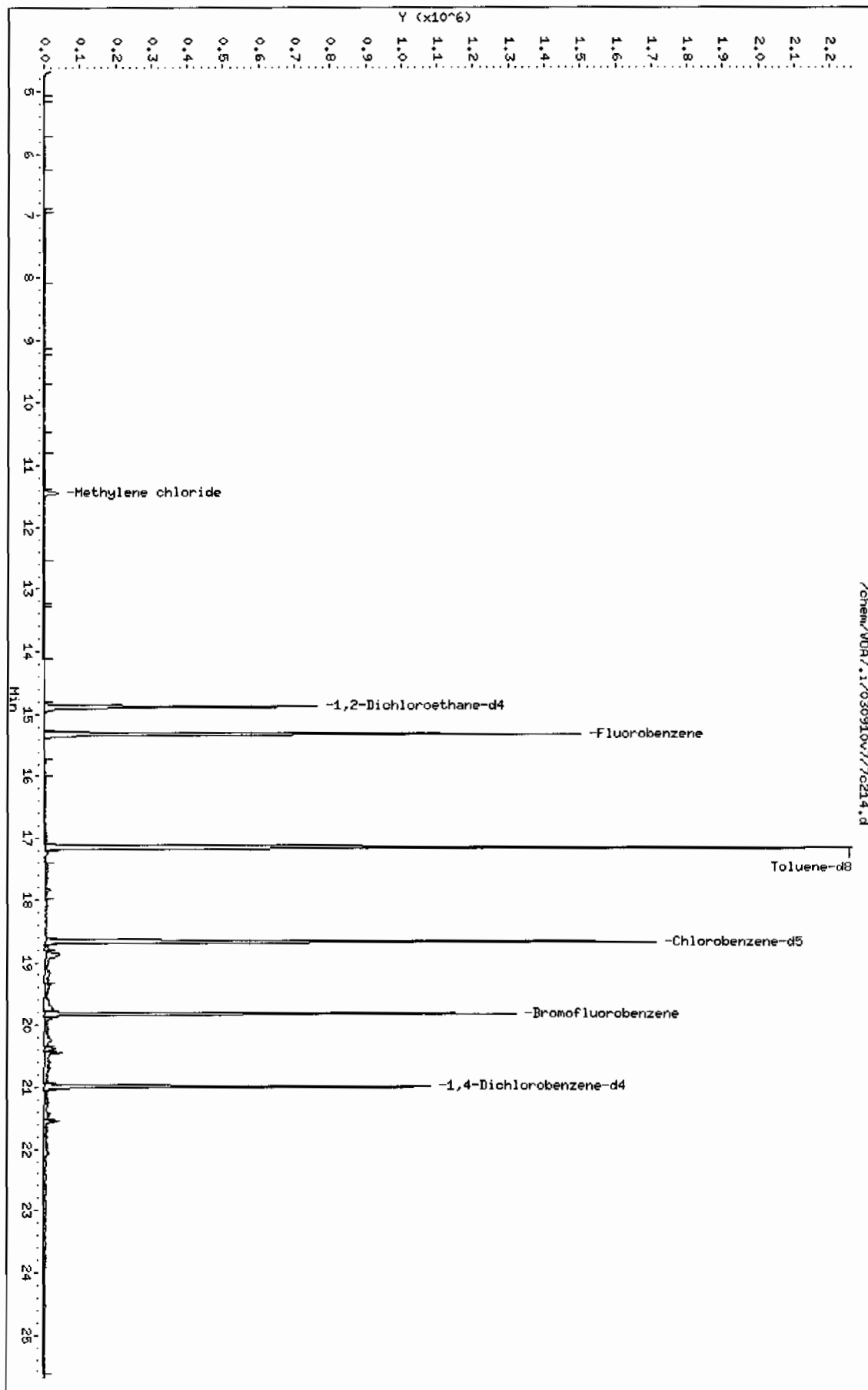
Sample Info: 1248197001196205911V0A7.1.1

Column phase: DB-624

Instrument: V0A7.1

Operator: AX01

Column diameter: 0.25



Date : 09-MAR-2010 17:26

Client ID: RE36-10-7405

Instrument: VOA7.i

Sample Info: I2481970011962059111VOAF111

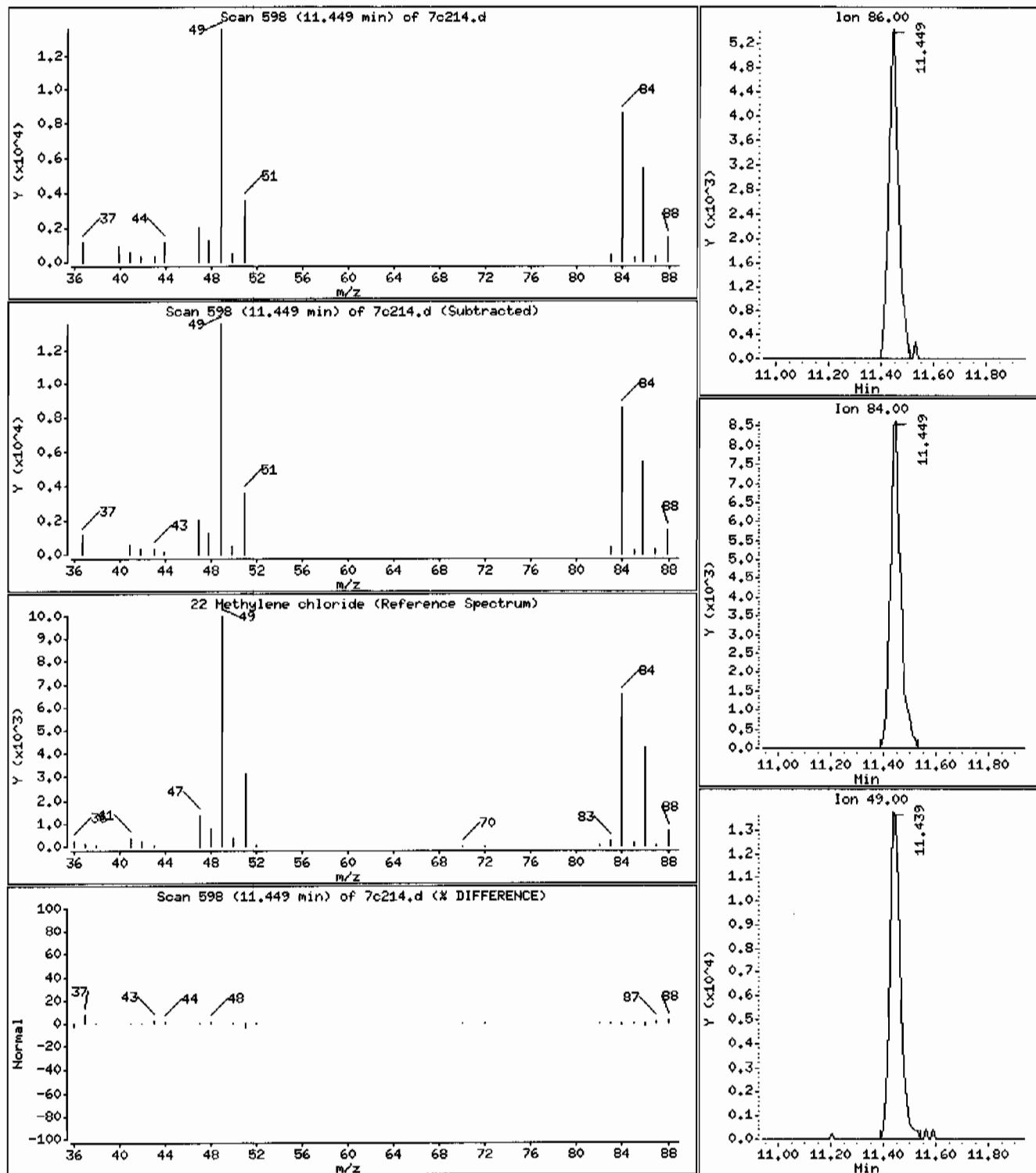
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 3.0 ug/Kg



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 19:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b613.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	0.335	1.12
75-01-4	Vinyl chloride	U	1.12	ug/kg	0.335	1.12
74-83-9	Bromomethane	U	1.12	ug/kg	0.335	1.12
75-00-3	Chloroethane	U	1.12	ug/kg	0.335	1.12
75-69-4	Trichlorofluoromethane	U	1.12	ug/kg	0.335	1.12
67-64-1	Acetone	U	5.58	ug/kg	1.85	5.58
75-35-4	1,1-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
74-88-4	Iodomethane	U	5.58	ug/kg	1.79	5.58
75-09-2	Methylene chloride	U	5.58	ug/kg	2.23	5.58
75-15-0	Carbon disulfide	U	5.58	ug/kg	1.40	5.58
156-60-5	trans-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
75-34-3	1,1-Dichloroethane	U	1.12	ug/kg	0.335	1.12
78-93-3	2-Butanone	U	5.58	ug/kg	1.67	5.58
156-59-2	cis-1,2-Dichloroethylene	U	1.12	ug/kg	0.335	1.12
594-20-7	2,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
67-66-3	Chloroform	U	1.12	ug/kg	0.335	1.12
74-97-5	Bromochloromethane	U	1.12	ug/kg	0.368	1.12
71-55-6	1,1,1-Trichloroethane	U	1.12	ug/kg	0.335	1.12
563-58-6	1,1-Dichloropropene	U	1.12	ug/kg	0.335	1.12
56-23-5	Carbon tetrachloride	U	1.12	ug/kg	0.335	1.12
107-06-2	1,2-Dichloroethane	U	1.12	ug/kg	0.335	1.12
71-43-2	Benzene	U	1.12	ug/kg	0.335	1.12
79-01-6	Trichloroethylene	U	1.12	ug/kg	0.368	1.12
78-87-5	1,2-Dichloropropane	U	1.12	ug/kg	0.335	1.12
75-27-4	Bromodichloromethane	U	1.12	ug/kg	0.335	1.12
74-95-3	Dibromomethane	U	1.12	ug/kg	0.335	1.12
108-10-1	4-Methyl-2-pentanone	U	5.58	ug/kg	1.40	5.58
10061-01-5	cis-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
108-88-3	Toluene	J	0.437	ug/kg	0.335	1.12
10061-02-6	trans-1,3-Dichloropropylene	U	1.12	ug/kg	0.335	1.12
79-00-5	1,1,2-Trichloroethane	U	1.12	ug/kg	0.335	1.12
591-78-6	2-Hexanone	U	5.58	ug/kg	1.67	5.58
142-28-9	1,3-Dichloropropane	U	1.12	ug/kg	0.335	1.12
127-18-4	Tetrachloroethylene	U	1.12	ug/kg	0.335	1.12
124-48-1	Dibromochloromethane	U	1.12	ug/kg	0.335	1.12
106-93-4	1,2-Dibromoethane	U	1.12	ug/kg	0.335	1.12
108-90-7	Chlorobenzene	U	1.12	ug/kg	0.335	1.12

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 19:03	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:18	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b613.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.12	ug/kg	0.335	1.12
179601-23-1	m,p-Xylenes	U	2.23	ug/kg	0.335	2.23
95-47-6	o-Xylene	U	1.12	ug/kg	0.335	1.12
100-42-5	Styrene	U	1.12	ug/kg	0.335	1.12
75-25-2	Bromoform	U	1.12	ug/kg	0.335	1.12
79-34-5	1,1,2,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
96-18-4	1,2,3-Trichloropropane	U	1.12	ug/kg	0.335	1.12
108-86-1	Bromobenzene	U	1.12	ug/kg	0.335	1.12
103-65-1	n-Propylbenzene	U	1.12	ug/kg	0.335	1.12
95-49-8	2-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-82-8	Isopropylbenzene	U	1.12	ug/kg	0.335	1.12
108-67-8	1,3,5-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
106-43-4	4-Chlorotoluene	U	1.12	ug/kg	0.335	1.12
98-06-6	tert-Butylbenzene	U	1.12	ug/kg	0.335	1.12
95-63-6	1,2,4-Trimethylbenzene	U	1.12	ug/kg	0.335	1.12
135-98-8	sec-Butylbenzene	U	1.12	ug/kg	0.335	1.12
99-87-6	4-Isopropyltoluene	U	1.12	ug/kg	0.335	1.12
541-73-1	1,3-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
106-46-7	1,4-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12
104-51-8	n-Butylbenzene	U	1.12	ug/kg	0.335	1.12
96-12-8	1,2-Dibromo-3-chloropropane	U	1.12	ug/kg	0.335	1.12
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.58	ug/kg	1.79	5.58
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.12	ug/kg	0.335	1.12
95-50-1	1,2-Dichlorobenzene	U	1.12	ug/kg	0.335	1.12

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/030610v7/7b613.d

Lab Smp Id: 248197003

Client Smp ID: RE36-10-7406

Inj Date : 06-MAR-2010 19:03

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197003|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 13

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	10.44650	% 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)	793583	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	509564	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992 (1.000)	191335	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.972)	300849	43.8787	49.0
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	863438	52.0622	58.1
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	258512	51.3634	57.4
65 Toluene	92	17.215	17.215 (0.922)	3593	0.39164	0.44 (a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7b613.d
Report Date: 03/08/2010 07:47
Lab. ID: 248197003
Injection Date: 06-MAR-2010 19:03
Operator: AX01
Sample Info: |248197003|962059|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE
Instrument: VOA7.i
Compound Sublist: 10-2121

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9694	17.13	16.93	80-120	100	(T)
43	6735	17.13	16.93	218-278	69	(QT)
100	592145	17.13	16.94	0- 56	6108	(QT)

65	Toluene			CAS#: 108-88-3		
92	3593	17.21	17.22	80-120	100	()
91	6062	17.21	17.22	132-192	169	()

82	Bromoform			CAS#: 75-25-2		
173	767	19.82	19.53	80-120	100	(T)
175	13214	19.81	19.53	19- 79	1721	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b613.d
Report Date: 22-Mar-2010 21:13

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b613.d
Lab Smp Id: 248197003 Client Smp ID: RE36-10-7406
Inj Date : 06-MAR-2010 19:03
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197003|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.1/030610v7/7b613.d
Date: 06-MAR-2010 13:03
Client ID: RE36-10-7406
Sample Info: 12481970031962059111V0AF1A1

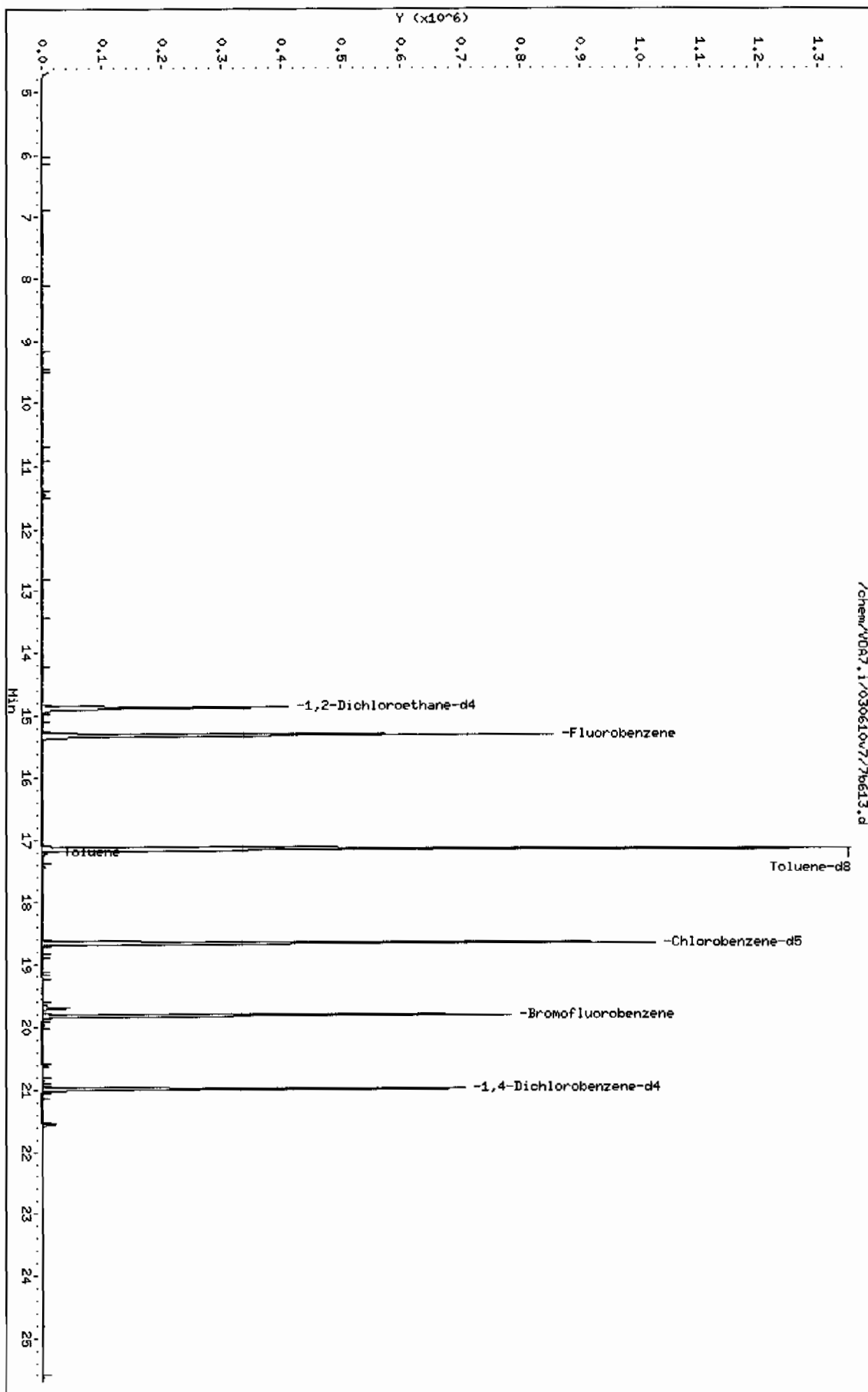
Column phase: DB-624

Instrument: V0A7.i

Operator: AXD1

Column diameter: 0.25

Page 1



Date : 06-MAR-2010 19:03

Client ID: RE36-10-7406

Instrument: V0A7.i

Sample Info: I248197003I962059I11V0AF11I

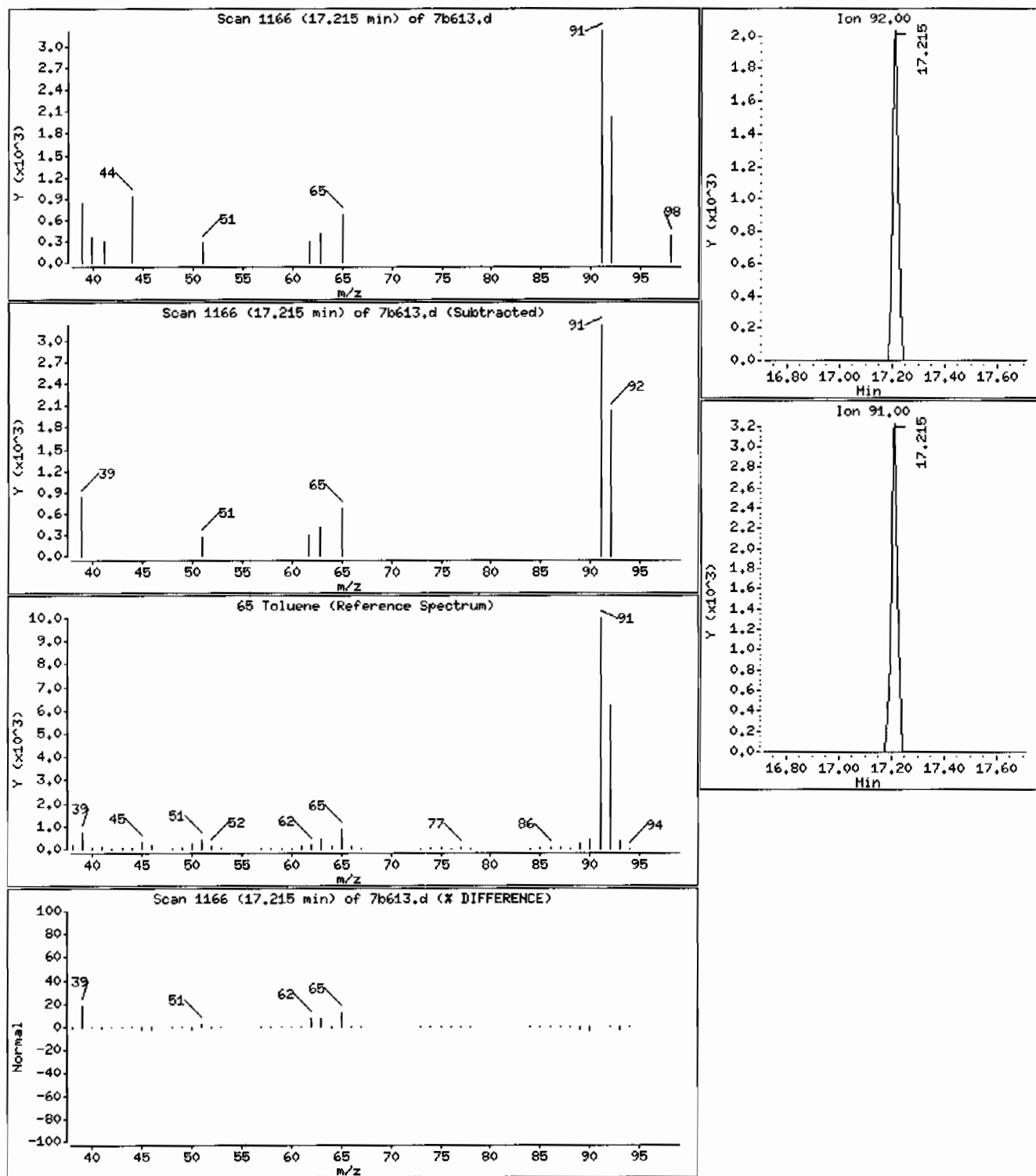
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

65 Toluene

Concentration: 0.44 ug/Kg



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	% Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 03:27	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:34	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b628.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.28	ug/kg	0.437	1.28
74-87-3	Chloromethane	U	1.28	ug/kg	0.385	1.28
75-01-4	Vinyl chloride	U	1.28	ug/kg	0.385	1.28
74-83-9	Bromomethane	U	1.28	ug/kg	0.385	1.28
75-00-3	Chloroethane	U	1.28	ug/kg	0.385	1.28
75-69-4	Trichlorofluoromethane	U	1.28	ug/kg	0.385	1.28
67-64-1	Acetone	U	6.42	ug/kg	2.13	6.42
75-35-4	1,1-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
74-88-4	Iodomethane	U	6.42	ug/kg	2.05	6.42
75-09-2	Methylene chloride	U	6.42	ug/kg	2.57	6.42
75-15-0	Carbon disulfide	U	6.42	ug/kg	1.61	6.42
156-60-5	trans-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
75-34-3	1,1-Dichloroethane	U	1.28	ug/kg	0.385	1.28
78-93-3	2-Butanone	U	6.42	ug/kg	1.93	6.42
156-59-2	cis-1,2-Dichloroethylene	U	1.28	ug/kg	0.385	1.28
594-20-7	2,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
67-66-3	Chloroform	U	1.28	ug/kg	0.385	1.28
74-97-5	Bromochloromethane	U	1.28	ug/kg	0.424	1.28
71-55-6	1,1,1-Trichloroethane	U	1.28	ug/kg	0.385	1.28
563-58-6	1,1-Dichloropropene	U	1.28	ug/kg	0.385	1.28
56-23-5	Carbon tetrachloride	U	1.28	ug/kg	0.385	1.28
107-06-2	1,2-Dichloroethane	U	1.28	ug/kg	0.385	1.28
71-43-2	Benzene	U	1.28	ug/kg	0.385	1.28
79-01-6	Trichloroethylene	U	1.28	ug/kg	0.424	1.28
78-87-5	1,2-Dichloropropane	U	1.28	ug/kg	0.385	1.28
75-27-4	Bromodichloromethane	U	1.28	ug/kg	0.385	1.28
74-95-3	Dibromomethane	U	1.28	ug/kg	0.385	1.28
108-10-1	4-Methyl-2-pentanone	U	6.42	ug/kg	1.61	6.42
10061-01-5	cis-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
108-88-3	Toluene	U	1.28	ug/kg	0.385	1.28
10061-02-6	trans-1,3-Dichloropropylene	U	1.28	ug/kg	0.385	1.28
79-00-5	1,1,2-Trichloroethane	U	1.28	ug/kg	0.385	1.28
591-78-6	2-Hexanone	U	6.42	ug/kg	1.93	6.42
142-28-9	1,3-Dichloropropane	U	1.28	ug/kg	0.385	1.28
127-18-4	Tetrachloroethylene	U	1.28	ug/kg	0.385	1.28
124-48-1	Dibromochloromethane	U	1.28	ug/kg	0.385	1.28
106-93-4	1,2-Dibromoethane	U	1.28	ug/kg	0.385	1.28
108-90-7	Chlorobenzene	U	1.28	ug/kg	0.385	1.28

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 03:27	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:34	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b628.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.28	ug/kg	0.385	1.28
179601-23-1	m,p-Xylenes	U	2.57	ug/kg	0.385	2.57
95-47-6	o-Xylene	U	1.28	ug/kg	0.385	1.28
100-42-5	Styrene	U	1.28	ug/kg	0.385	1.28
75-25-2	Bromoform	U	1.28	ug/kg	0.385	1.28
79-34-5	1,1,2,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
96-18-4	1,2,3-Trichloropropane	U	1.28	ug/kg	0.385	1.28
108-86-1	Bromobenzene	U	1.28	ug/kg	0.385	1.28
103-65-1	n-Propylbenzene	U	1.28	ug/kg	0.385	1.28
95-49-8	2-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-82-8	Isopropylbenzene	U	1.28	ug/kg	0.385	1.28
108-67-8	1,3,5-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
106-43-4	4-Chlorotoluene	U	1.28	ug/kg	0.385	1.28
98-06-6	tert-Butylbenzene	U	1.28	ug/kg	0.385	1.28
95-63-6	1,2,4-Trimethylbenzene	U	1.28	ug/kg	0.385	1.28
135-98-8	sec-Butylbenzene	U	1.28	ug/kg	0.385	1.28
99-87-6	4-Isopropyltoluene	U	1.28	ug/kg	0.385	1.28
541-73-1	1,3-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
106-46-7	1,4-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28
104-51-8	n-Butylbenzene	U	1.28	ug/kg	0.385	1.28
96-12-8	1,2-Dibromo-3-chloropropane	U	1.28	ug/kg	0.385	1.28
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.42	ug/kg	2.05	6.42
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.28	ug/kg	0.385	1.28
95-50-1	1,2-Dichlorobenzene	U	1.28	ug/kg	0.385	1.28

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	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/030610v7/7b628.d

Lab Smp Id: 248197011

Client Smp ID: RE36-10-7425

Inj Date : 07-MAR-2010 03:27

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197011|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Meth Date : 22-Mar-2010 20:41 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 28

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	22.13550	% 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)	800460		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	473334		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	150152		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	298518		43.1647	55.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	855677		55.5434	71.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	228727		57.9100	74.4

ION RATIO REPORT

VOA REPORT

Data file: 7b628.d

Report Date: 03/08/2010 08:11

Lab. ID: 248197011

SampleType: SAMPLE

Injection Date: 07-MAR-2010 03:27

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197011|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9380	17.13	16.93	80-120	100	(T)
43	6342	17.13	16.93	228-288	68	(QT)
100	585081	17.13	16.94	0- 56	6237	(QT)

82	Bromoform			CAS#: 75-25-2		
173	474	19.81	19.54	80-120	100	(T)
175	11968	19.81	19.54	20- 80	2523	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b628.d
Report Date: 22-Mar-2010 21:22

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b628.d
Lab Smp Id: 248197011 Client Smp ID: RE36-10-7425
Inj Date : 07-MAR-2010 03:27
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197011|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V007.1/030610v7/7b628.d

Date: 07-MAR-2010 03:27

Client ID: RE36-10-7425

Sample Info: 124819701.19620591.1.V007.1.1

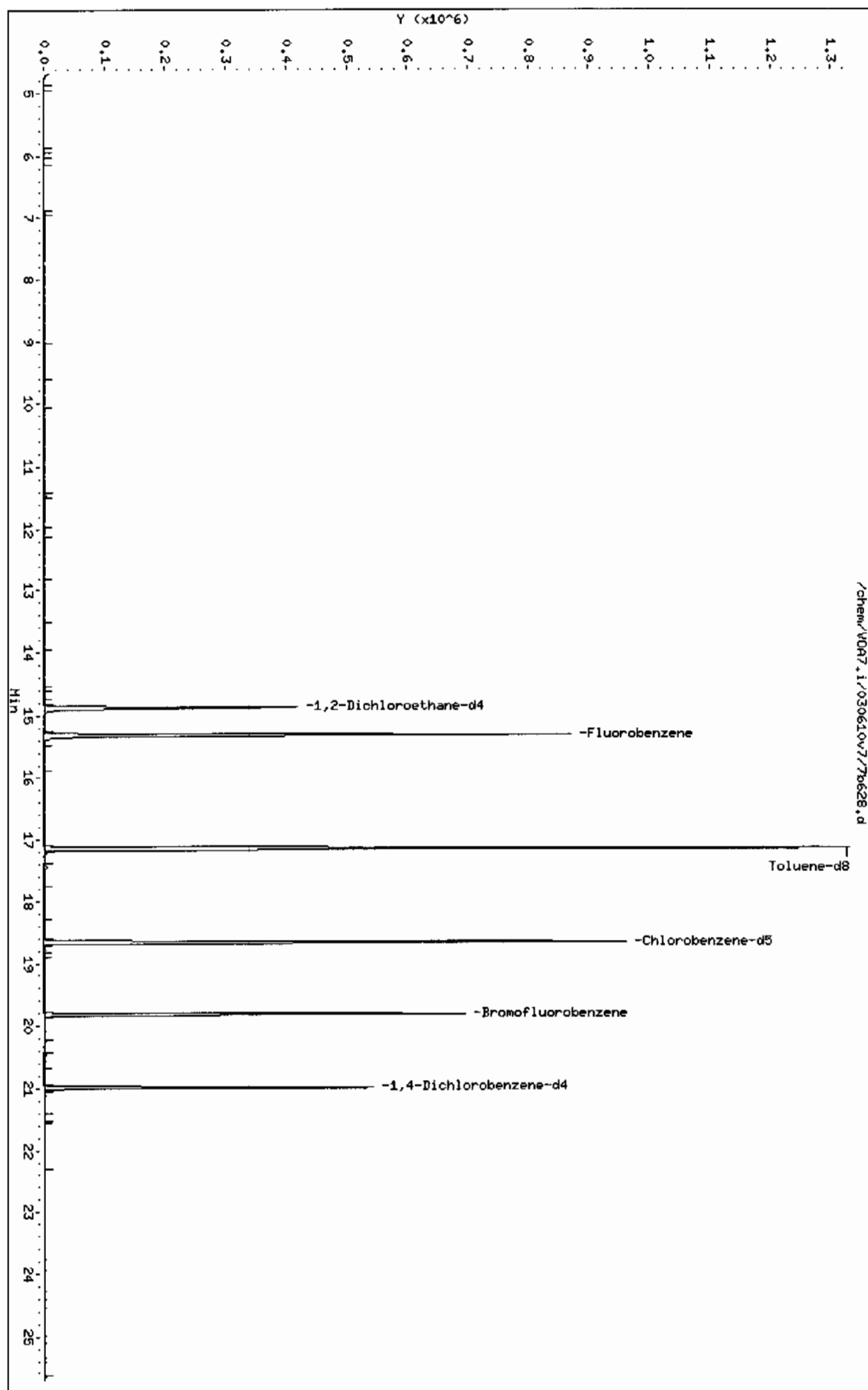
Column phase: DB-624

Page 1

Instrument: V007.1

Operator: AX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 12.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7426
 Batch ID: 962059
 Run Date: 03/06/2010 21:16
 Prep Date: 03/05/2010 16:26
 Data File: 7b617.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.14	ug/kg	0.388	1.14
74-87-3	Chloromethane	U	1.14	ug/kg	0.343	1.14
75-01-4	Vinyl chloride	U	1.14	ug/kg	0.343	1.14
74-83-9	Bromomethane	U	1.14	ug/kg	0.343	1.14
75-00-3	Chloroethane	U	1.14	ug/kg	0.343	1.14
75-69-4	Trichlorofluoromethane	U	1.14	ug/kg	0.343	1.14
67-64-1	Acetone	U	5.71	ug/kg	1.90	5.71
75-35-4	1,1-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
74-88-4	Iodomethane	U	5.71	ug/kg	1.83	5.71
75-09-2	Methylene chloride	U	5.71	ug/kg	2.28	5.71
75-15-0	Carbon disulfide	U	5.71	ug/kg	1.43	5.71
156-60-5	trans-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
75-34-3	1,1-Dichloroethane	U	1.14	ug/kg	0.343	1.14
78-93-3	2-Butanone	U	5.71	ug/kg	1.71	5.71
156-59-2	cis-1,2-Dichloroethylene	U	1.14	ug/kg	0.343	1.14
594-20-7	2,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14
67-66-3	Chloroform	U	1.14	ug/kg	0.343	1.14
74-97-5	Bromochloromethane	U	1.14	ug/kg	0.377	1.14
71-55-6	1,1,1-Trichloroethane	U	1.14	ug/kg	0.343	1.14
563-58-6	1,1-Dichloropropene	U	1.14	ug/kg	0.343	1.14
56-23-5	Carbon tetrachloride	U	1.14	ug/kg	0.343	1.14
107-06-2	1,2-Dichloroethane	U	1.14	ug/kg	0.343	1.14
71-43-2	Benzene	U	1.14	ug/kg	0.343	1.14
79-01-6	Trichloroethylene	U	1.14	ug/kg	0.377	1.14
78-87-5	1,2-Dichloropropane	U	1.14	ug/kg	0.343	1.14
75-27-4	Bromodichloromethane	U	1.14	ug/kg	0.343	1.14
74-95-3	Dibromomethane	U	1.14	ug/kg	0.343	1.14
108-10-1	4-Methyl-2-pentanone	U	5.71	ug/kg	1.43	5.71
10061-01-5	cis-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.343	1.14
10061-02-6	trans-1,3-Dichloropropylene	U	1.14	ug/kg	0.343	1.14
79-00-5	1,1,2-Trichloroethane	U	1.14	ug/kg	0.343	1.14
591-78-6	2-Hexanone	U	5.71	ug/kg	1.71	5.71
142-28-9	1,3-Dichloropropane	U	1.14	ug/kg	0.343	1.14
127-18-4	Tetrachloroethylene	U	1.14	ug/kg	0.343	1.14
124-48-1	Dibromochloromethane	U	1.14	ug/kg	0.343	1.14
106-93-4	1,2-Dibromoethane	U	1.14	ug/kg	0.343	1.14
108-90-7	Chlorobenzene	U	1.14	ug/kg	0.343	1.14

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Lab Sample ID: 248197007

Client ID: RE36-10-7426

Batch ID: 962059

Run Date: 03/06/2010 21:16

Prep Date: 03/05/2010 16:26

Data File: 7b617.d

Date Collected: 02/23/2010 12:00

Date Received: 02/26/2010 08:45

Client: LANL010

Method: SW846 8260B

Inst: VOA7.I

Analyst: AXO1

Aliquot: 5 g

Column: DB-624

Matrix: R

%Moisture: 12.5

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	1.14	ug/kg	0.343	1.14
179601-23-1	m,p-Xylenes	U	2.28	ug/kg	0.343	2.28
95-47-6	o-Xylene	U	1.14	ug/kg	0.343	1.14
100-42-5	Styrene	U	1.14	ug/kg	0.343	1.14
75-25-2	Bromoform	U	1.14	ug/kg	0.343	1.14
79-34-5	1,1,2,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
96-18-4	1,2,3-Trichloropropane	U	1.14	ug/kg	0.343	1.14
108-86-1	Bromobenzene	U	1.14	ug/kg	0.343	1.14
103-65-1	n-Propylbenzene	U	1.14	ug/kg	0.343	1.14
95-49-8	2-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-82-8	Isopropylbenzene	U	1.14	ug/kg	0.343	1.14
108-67-8	1,3,5-Trimethylbenzene		5.69	ug/kg	0.343	1.14
106-43-4	4-Chlorotoluene	U	1.14	ug/kg	0.343	1.14
98-06-6	tert-Butylbenzene	U	1.14	ug/kg	0.343	1.14
95-63-6	1,2,4-Trimethylbenzene	U	1.14	ug/kg	0.343	1.14
135-98-8	sec-Butylbenzene	U	1.14	ug/kg	0.343	1.14
99-87-6	4-Isopropyltoluene		3.64	ug/kg	0.343	1.14
541-73-1	1,3-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
106-46-7	1,4-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14
104-51-8	n-Butylbenzene	U	1.14	ug/kg	0.343	1.14
96-12-8	1,2-Dibromo-3-chloropropane	U	1.14	ug/kg	0.343	1.14
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.71	ug/kg	1.83	5.71
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.14	ug/kg	0.343	1.14
95-50-1	1,2-Dichlorobenzene	U	1.14	ug/kg	0.343	1.14

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Hydrocarbon	19.54	139	ug/kg		J
	Unknown Hydrocarbon	19.65	139	ug/kg		J
	Unknown Hydrocarbon	19.96	748	ug/kg		J
	Unknown Hydrocarbon	20.33	8	ug/kg		J

Data File: /chem/VOA7.i/030610v7/7b617.d
Report Date: 22-Mar-2010 21:19

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b617.d

Lab Smp Id: 248197007

Client Smp ID: RE36-10-7426

Inj Date : 06-MAR-2010 21:16

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197007|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 17

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	12.45700	% 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)	718079	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	458618	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992 (1.000)	187153	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	264694	42.6648	48.7
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	759713	50.8966	58.1
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	235205	47.7768	54.6
92 1,3,5-Trimethylbenzene	105	20.169	20.169 (0.961)	49843	4.98199	5.7
99 4-Isopropyltoluene	119	20.859	20.860 (0.994)	30751	3.18772	3.6(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

ION RATIO REPORT

VOA REPORT

Data file: 7b617.d
Report Date: 03/08/2010 07:47
Lab. ID: 248197007 SampleType: SAMPLE
Injection Date: 06-MAR-2010 21:16
Operator: AX01 Instrument: VOA7.i
Sample Info: |248197007|962059|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Dilution Factor= 1.0
Integrator: HP RTE Compound Sublist: 10-2121
Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	9222	17.13	16.93	80-120	100	(T)
43	6215	17.13	16.93	218-278	67	(QT)
100	525915	17.13	16.94	0- 56	5703	(QT)

80 o-Xylene				CAS#: 95-47-6		
106	21432	19.54	19.29	80-120	100	(T)
91	276455	19.54	19.29	169-229	1290	(QT)

81 Styrene				CAS#: 100-42-5		
104	5434	19.54	19.29	80-120	100	(T)
78	77711	19.54	19.29	23- 83	1430	(QT)

82 Bromoform				CAS#: 75-25-2		
173	830	19.80	19.53	80-120	100	(T)
175	12390	19.81	19.53	19- 79	1493	(QT)

83 Isopropylbenzene				CAS#: 98-82-8		
105	85811	19.65	19.63	80-120	100	()
120	3954	19.65	19.63	0- 58	5	()

87 1,1,2,2-Tetrachloroethane				CAS#: 79-34-5		
83	11408	19.96	19.88	80-120	100	(T)
85	731	19.97	19.88	36- 96	6	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	778	19.97	19.97	80-120	100	()
75	9050	19.96	19.97	302-362	1163	(Q)
77	774979	19.96	19.97	66-126	99610	(Q)

91	n-Propylbenzene			CAS#: 103-65-1		
91	1019852	19.96	20.03	80-120	100	(T)
120	8339	19.97	20.03	0- 52	1	(T)

92	1,3,5-Trimethylbenzene			CAS#: 108-67-8		
105	49843	20.17	20.17	80-120	100	()
120	22222	20.17	20.17	19- 79	45	()

96	1,2,4-Trimethylbenzene			CAS#: 95-63-6		
105	11116	20.40	20.57	80-120	100	(T)
120	3179	20.41	20.57	20- 80	29	(T)

95	tert-Butylbenzene			CAS#: 98-06-6		
119	30751	20.86	20.52	80-120	100	(T)
91	28217	20.84	20.52	47-107	92	(T)
134	9965	20.86	20.52	0- 53	32	(T)

98	sec-Butylbenzene			CAS#: 135-98-8		
105	5764	20.84	20.75	80-120	100	(T)
134	9965	20.86	20.75	0- 50	173	(QT)

99	4-Isopropyltoluene			CAS#: 99-87-6		
119	30751	20.86	20.86	80-120	100	()
134	9965	20.86	20.86	0- 60	32	()
91	28217	20.84	20.86	0- 57	92	(Q)

104	n-Butylbenzene			CAS#: 104-51-8		
91	3490	21.14	21.30	80-120	100	(T)
92	932	21.14	21.30	28- 88	27	(QT)
134	338	21.15	21.30	0- 55	10	(T)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b617.d
 Report Date: 22-Mar-2010 21:19

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/030610v7/7b617.d
 Lab Smp Id: 248197007 Client Smp ID: RE36-10-7426
 Inj Date : 06-MAR-2010 21:16
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |248197007|962059|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-2121.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	12.45700	% 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	1638857	50.000
* 101 1,4-Dichlorobenzene-d4	20.991	1397126	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon					CAS #:		
19.540	3986341	121.619526	139	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Hydrocarbon					CAS #:		
19.651	3991109	121.764988	139	0		0	75
Unknown Hydrocarbon					CAS #:		
19.956	18300830	654.945250	748	0		0	101
Unknown Hydrocarbon					CAS #:		
20.331	195753	7.00554489	8.0	0		0	101

Data File: /chem/V0A7.i/030610v7/7b617.d

Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Sample Info: 1248197007196205911.V0A7111

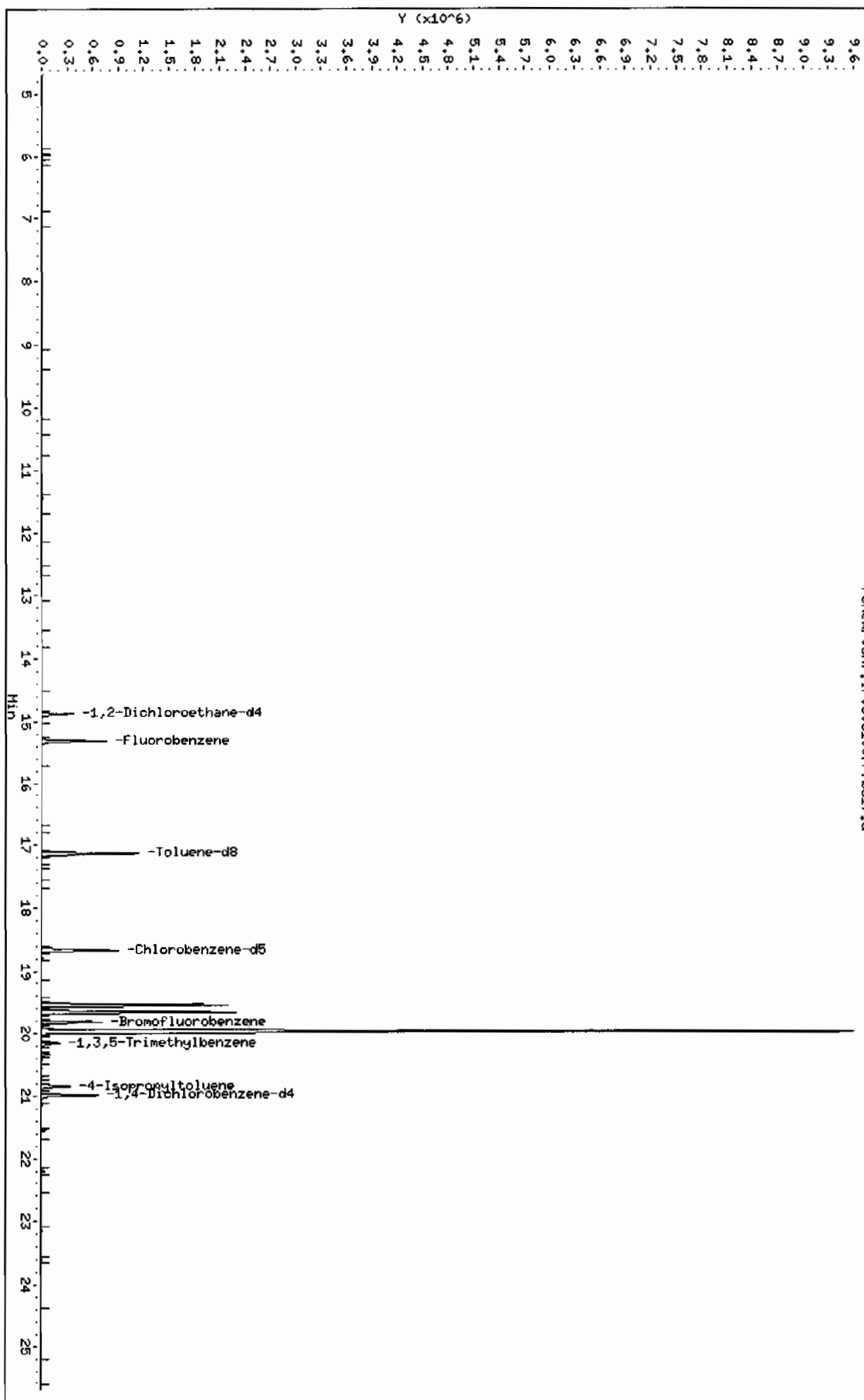
Column phase: DB-624

Instrument: V0A7.i

Operator: AKOL

Column diameter: 0.25

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Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: VOA7.i

Sample Info: 12481970071962059111VOAF111

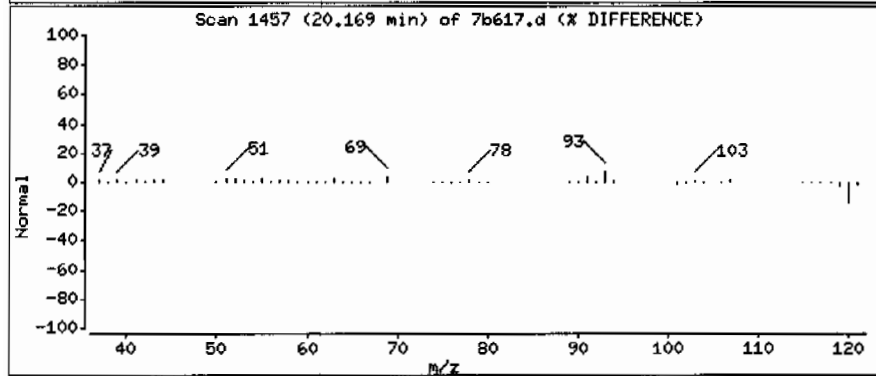
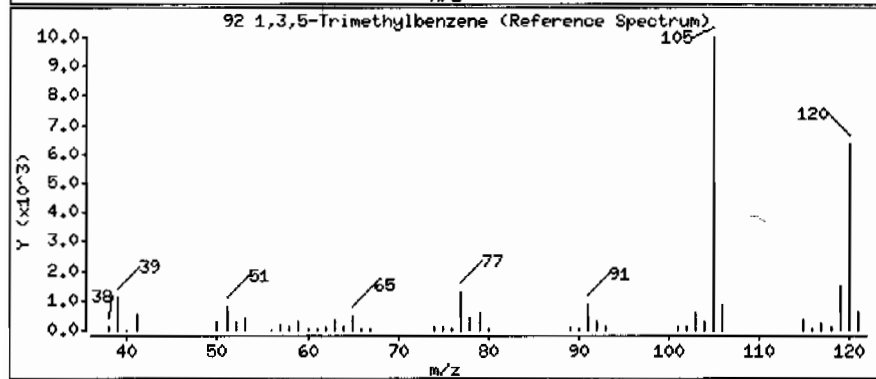
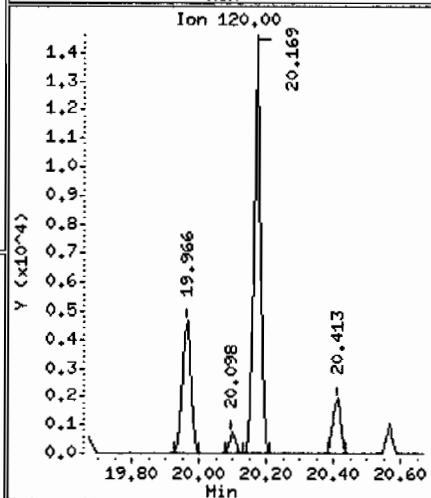
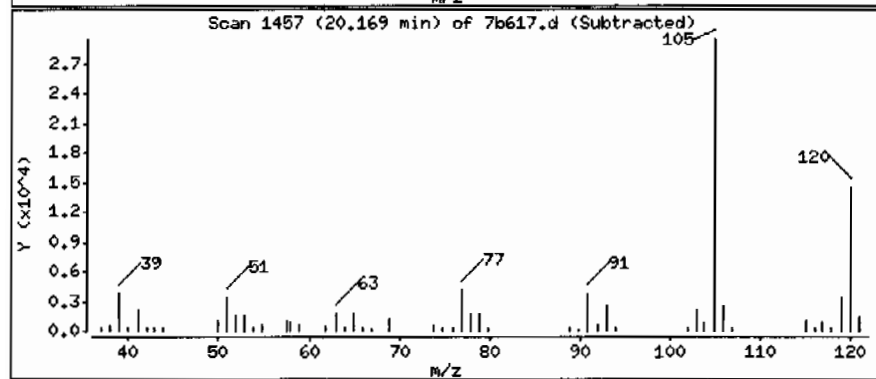
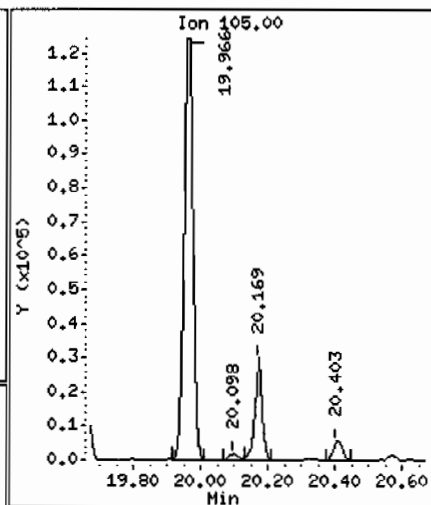
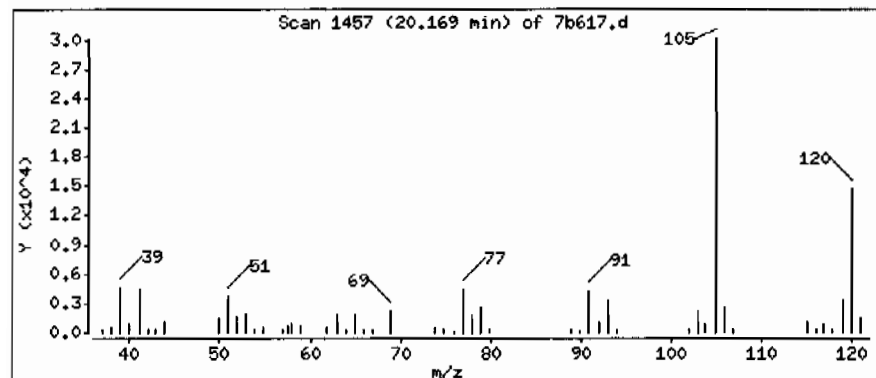
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

92 1,3,5-Trimethylbenzene

Concentration: 5.7 ug/Kg



Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: VOA7.i

Sample Info: I2481970071962059111VOAF111

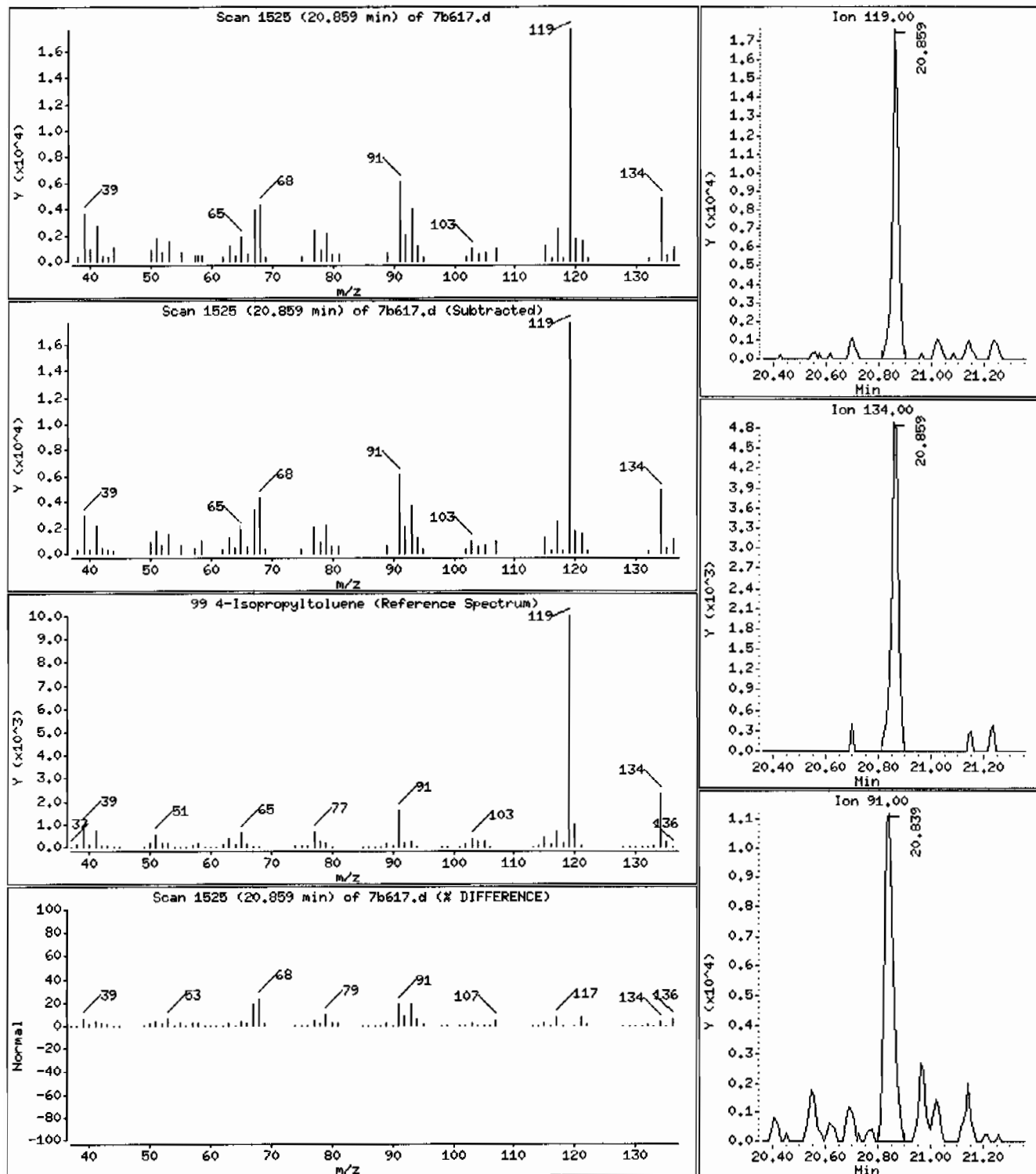
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

99 4-Isopropyltoluene

Concentration: 3.6 ug/Kg



Data File: /chem/V0A7,i/030610v7/7b617.d

Page 1

Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: V0A7.i

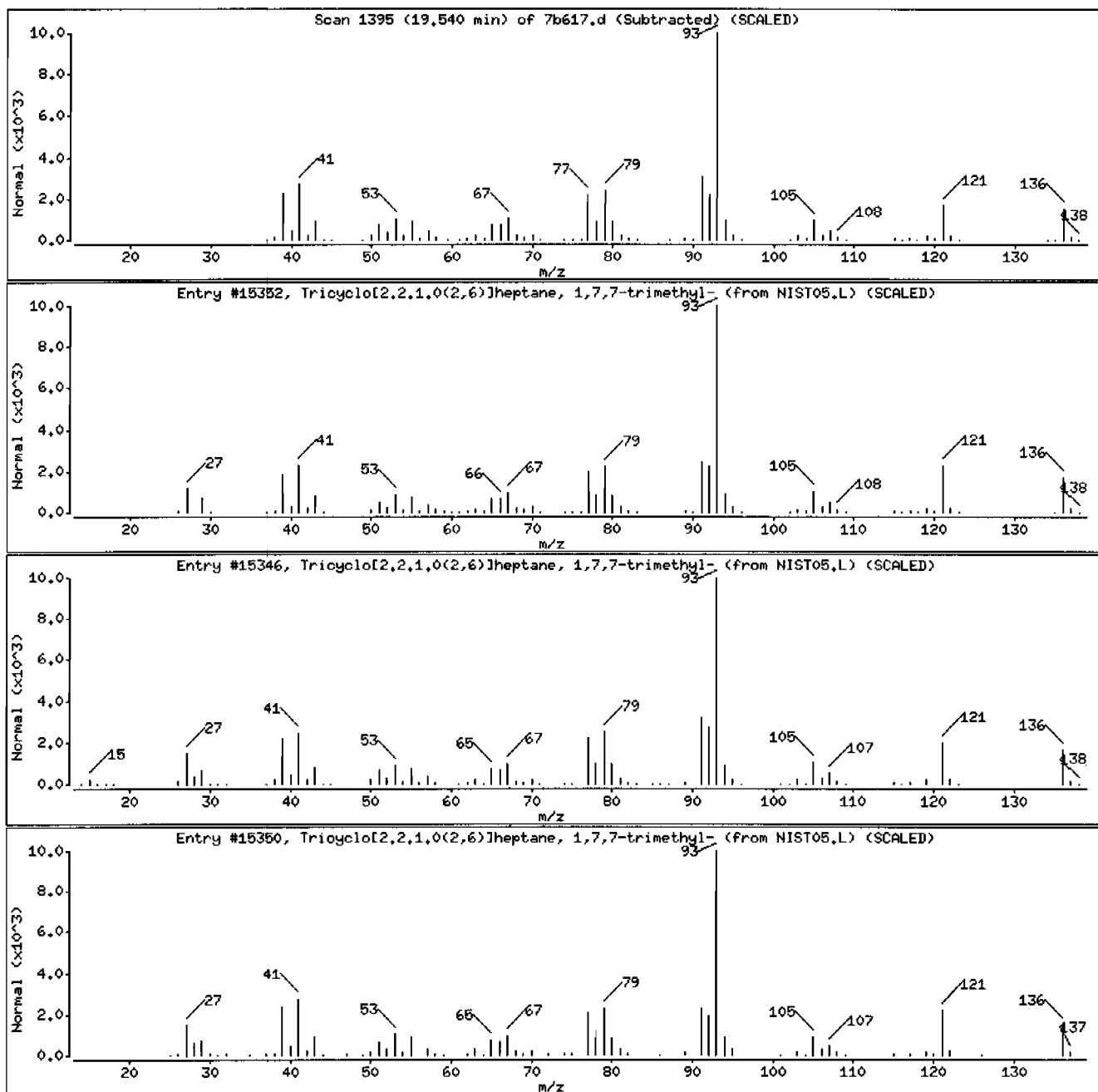
Sample Info: I248197007196205911|V0AF|1|

Operator: AXD1

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Hydrocarbon						
Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-tri	508-32-7	NIST05.L	15352	96	C10H16	136
Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-tri	508-32-7	NIST05.L	15346	96	C10H16	136
Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-tri	508-32-7	NIST05.L	15350	96	C10H16	136



Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: VOA7.i

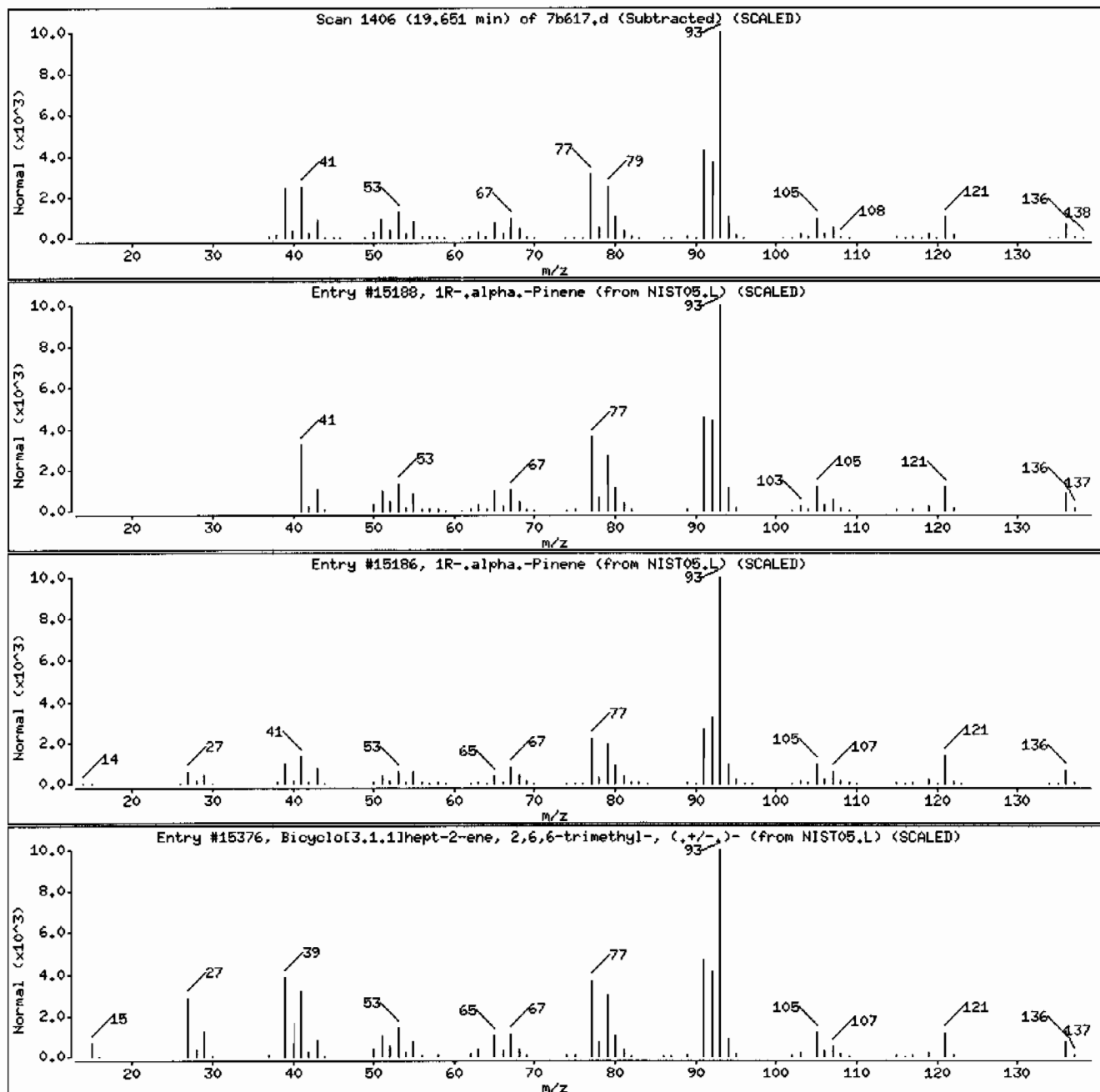
Sample Info: 12481970071962059111VOAF111

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
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	96	C10H16	136
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl	2437-95-8	NIST05.L	15376	95	C10H16	136



Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: VOA7.i

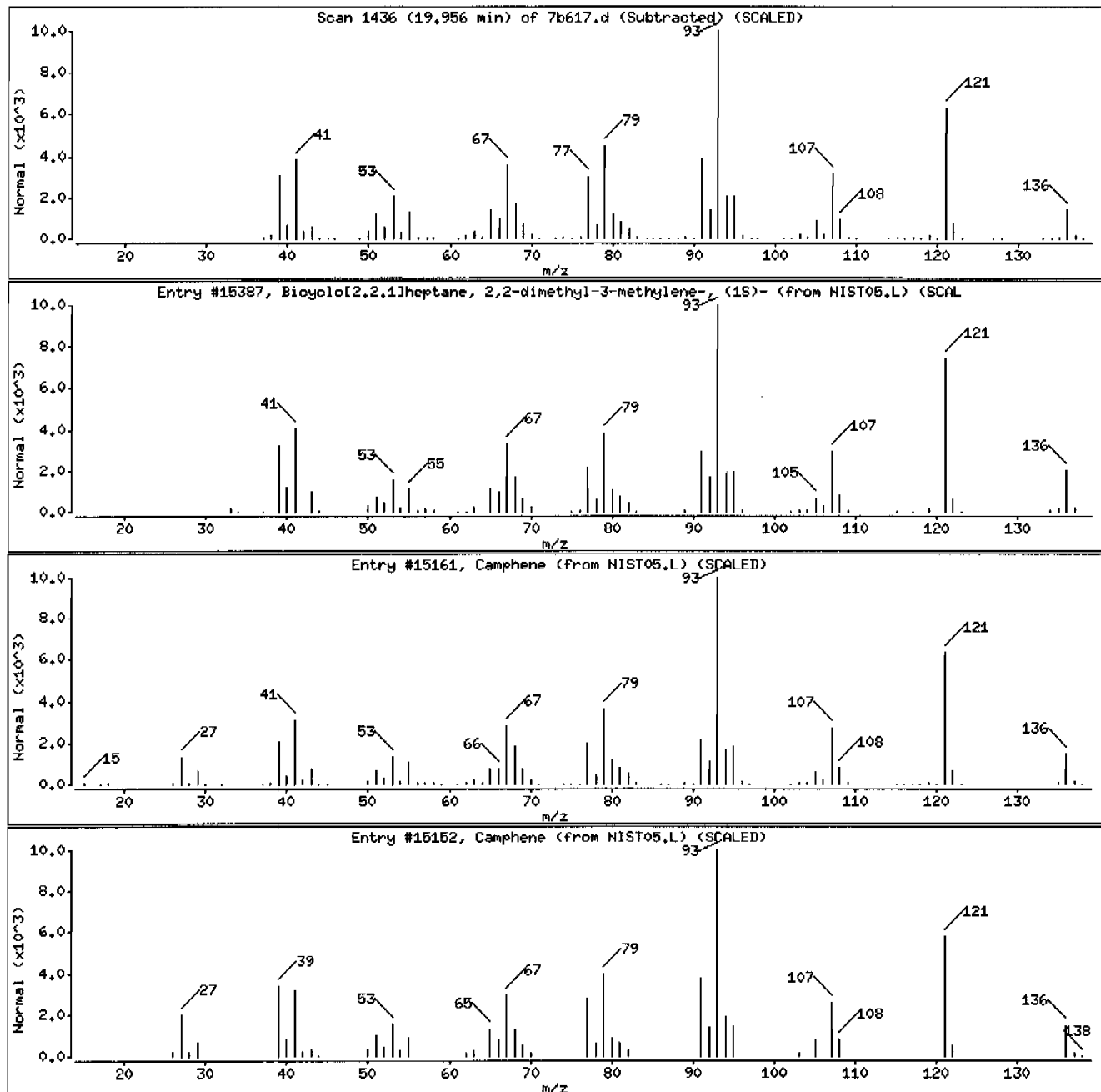
Sample Info: I248197007196205911VOAF111

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]heptane, 2,2-dimethyl-3-me	5794-04-7	NIST05.L	15387	97	C ₁₀ H ₁₆	136
Camphene	79-92-5	NIST05.L	15161	97	C ₁₀ H ₁₆	136
Camphene	79-92-5	NIST05.L	15152	97	C ₁₀ H ₁₆	136



Date : 06-MAR-2010 21:16

Client ID: RE36-10-7426

Instrument: VDA7.i

Sample Info: I2481970071962059111VDAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match

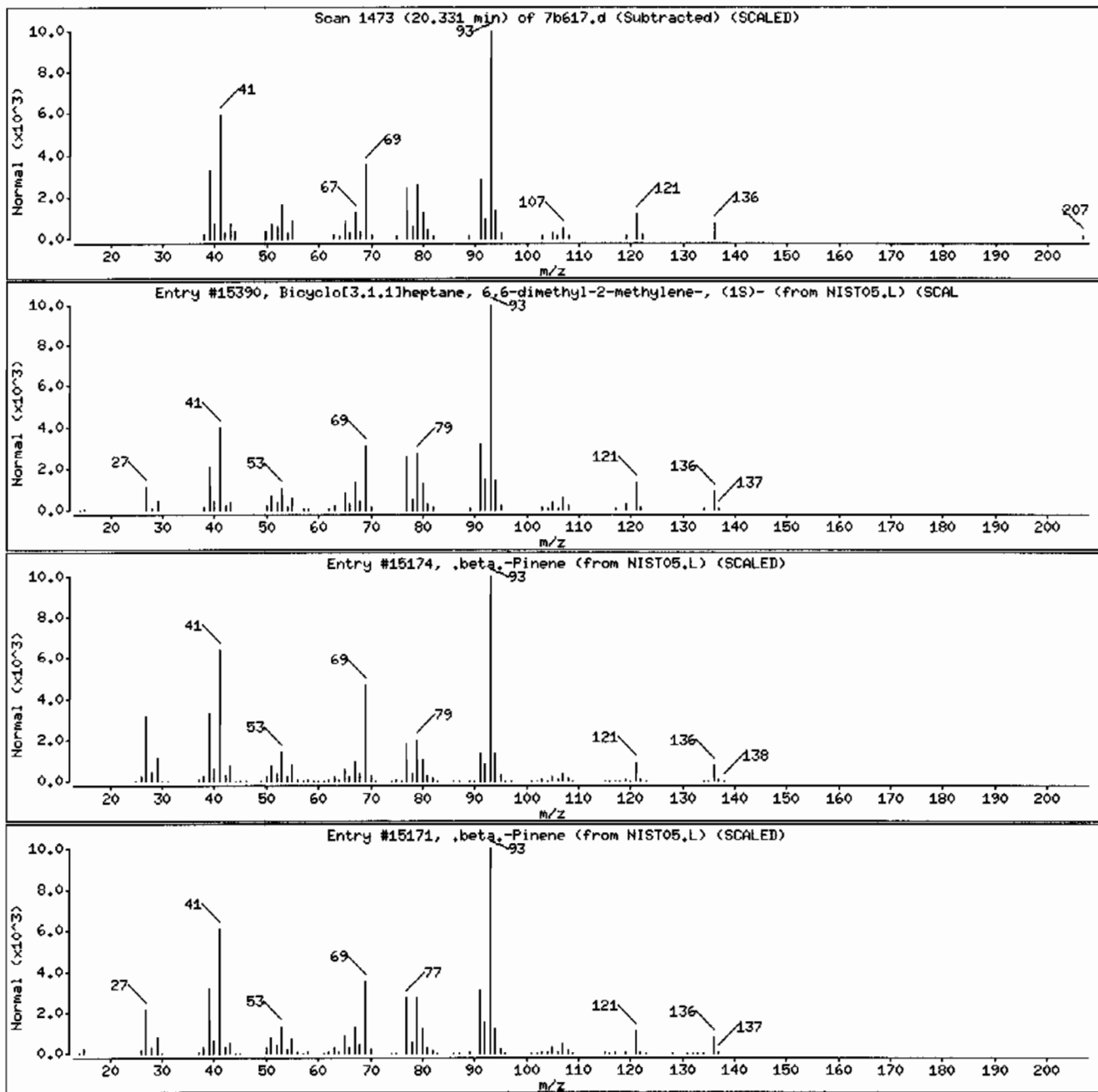
Unknown Hydrocarbon

Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me

.beta.-Pinene

.beta.-Pinene

CAS Number	Library	Entry	Quality	Formula	Weight
18172-67-3	NIST05.L	15390	94	C10H16	136
127-91-3	NIST05.L	15174	94	C10H16	136
127-91-3	NIST05.L	15171	93	C10H16	136



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
Client ID: RE36-10-7429	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/07/2010 04:00	Inst: VOA7.I	Dilution: 1
Prep Date: 03/05/2010 16:36	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b629.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	1.42	ug/kg	0.484	1.42
74-87-3	Chloromethane	U	1.42	ug/kg	0.427	1.42
75-01-4	Vinyl chloride	U	1.42	ug/kg	0.427	1.42
74-83-9	Bromomethane	U	1.42	ug/kg	0.427	1.42
75-00-3	Chloroethane	U	1.42	ug/kg	0.427	1.42
75-69-4	Trichlorofluoromethane	U	1.42	ug/kg	0.427	1.42
67-64-1	Acetone	U	7.11	ug/kg	2.36	7.11
75-35-4	1,1-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
74-88-4	Iodomethane	U	7.11	ug/kg	2.28	7.11
75-09-2	Methylene chloride	U	7.11	ug/kg	2.85	7.11
75-15-0	Carbon disulfide	U	7.11	ug/kg	1.78	7.11
156-60-5	trans-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
75-34-3	1,1-Dichloroethane	U	1.42	ug/kg	0.427	1.42
78-93-3	2-Butanone	U	7.11	ug/kg	2.13	7.11
156-59-2	cis-1,2-Dichloroethylene	U	1.42	ug/kg	0.427	1.42
594-20-7	2,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
67-66-3	Chloroform	U	1.42	ug/kg	0.427	1.42
74-97-5	Bromochloromethane	U	1.42	ug/kg	0.469	1.42
71-55-6	1,1,1-Trichloroethane	U	1.42	ug/kg	0.427	1.42
563-58-6	1,1-Dichloropropene	U	1.42	ug/kg	0.427	1.42
56-23-5	Carbon tetrachloride	U	1.42	ug/kg	0.427	1.42
107-06-2	1,2-Dichloroethane	U	1.42	ug/kg	0.427	1.42
71-43-2	Benzene	U	1.42	ug/kg	0.427	1.42
79-01-6	Trichloroethylene	U	1.42	ug/kg	0.469	1.42
78-87-5	1,2-Dichloropropane	U	1.42	ug/kg	0.427	1.42
75-27-4	Bromodichloromethane	U	1.42	ug/kg	0.427	1.42
74-95-3	Dibromomethane	U	1.42	ug/kg	0.427	1.42
108-10-1	4-Methyl-2-pentanone	U	7.11	ug/kg	1.78	7.11
10061-01-5	cis-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
108-88-3	Toluene	U	1.42	ug/kg	0.427	1.42
10061-02-6	trans-1,3-Dichloropropylene	U	1.42	ug/kg	0.427	1.42
79-00-5	1,1,2-Trichloroethane	U	1.42	ug/kg	0.427	1.42
591-78-6	2-Hexanone	U	7.11	ug/kg	2.13	7.11
142-28-9	1,3-Dichloropropane	U	1.42	ug/kg	0.427	1.42
127-18-4	Tetrachloroethylene	U	1.42	ug/kg	0.427	1.42
124-48-1	Dibromochloromethane	U	1.42	ug/kg	0.427	1.42
106-93-4	1,2-Dibromoethane	U	1.42	ug/kg	0.427	1.42
108-90-7	Chlorobenzene	U	1.42	ug/kg	0.427	1.42

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/07/2010 04:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:36	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b629.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.42	ug/kg	0.427	1.42
179601-23-1	m,p-Xylenes	U	2.85	ug/kg	0.427	2.85
95-47-6	o-Xylene	U	1.42	ug/kg	0.427	1.42
100-42-5	Styrene	U	1.42	ug/kg	0.427	1.42
75-25-2	Bromoform	U	1.42	ug/kg	0.427	1.42
79-34-5	1,1,2,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
96-18-4	1,2,3-Trichloropropane	U	1.42	ug/kg	0.427	1.42
108-86-1	Bromobenzene	U	1.42	ug/kg	0.427	1.42
103-65-1	n-Propylbenzene	U	1.42	ug/kg	0.427	1.42
95-49-8	2-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-82-8	Isopropylbenzene	U	1.42	ug/kg	0.427	1.42
108-67-8	1,3,5-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
106-43-4	4-Chlorotoluene	U	1.42	ug/kg	0.427	1.42
98-06-6	tert-Butylbenzene	U	1.42	ug/kg	0.427	1.42
95-63-6	1,2,4-Trimethylbenzene	U	1.42	ug/kg	0.427	1.42
135-98-8	sec-Butylbenzene	U	1.42	ug/kg	0.427	1.42
99-87-6	4-Isopropyltoluene	U	1.42	ug/kg	0.427	1.42
541-73-1	1,3-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
106-46-7	1,4-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42
104-51-8	n-Butylbenzene	U	1.42	ug/kg	0.427	1.42
96-12-8	1,2-Dibromo-3-chloropropane	U	1.42	ug/kg	0.427	1.42
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.11	ug/kg	2.28	7.11
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.42	ug/kg	0.427	1.42
95-50-1	1,2-Dichlorobenzene	U	1.42	ug/kg	0.427	1.42

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/030610v7/7b629.d
Lab Smp Id: 248197012 Client Smp ID: RE36-10-7429
Inj Date : 07-MAR-2010 04:00
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197012|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	29.70850	% 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)	689893	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	336117	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	84507	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	264346	44.3495	63.1
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	690127	63.0854	89.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	127478	57.3469	81.6

ION RATIO REPORT

VOA REPORT

Data file: 7b629.d

Report Date: 03/08/2010 08:11

Lab. ID: 248197012

SampleType: SAMPLE

Injection Date: 07-MAR-2010 04:00

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197012|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	8343	17.13	16.93	80-120	100	(T)
43	5284	17.13	16.93	228-288	63	(QT)
100	463693	17.13	16.94	0- 56	5558	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b629.d
Report Date: 22-Mar-2010 21:22

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b629.d
Lab Smp Id: 248197012 Client Smp ID: RE36-10-7429
Inj Date : 07-MAR-2010 04:00
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197012|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V067.i/030610v7/7b629.d

Date : 07-MAR-2010 04:00

Client ID: RE36-10-7429

Sample Info: 12481970121962059|11V06711

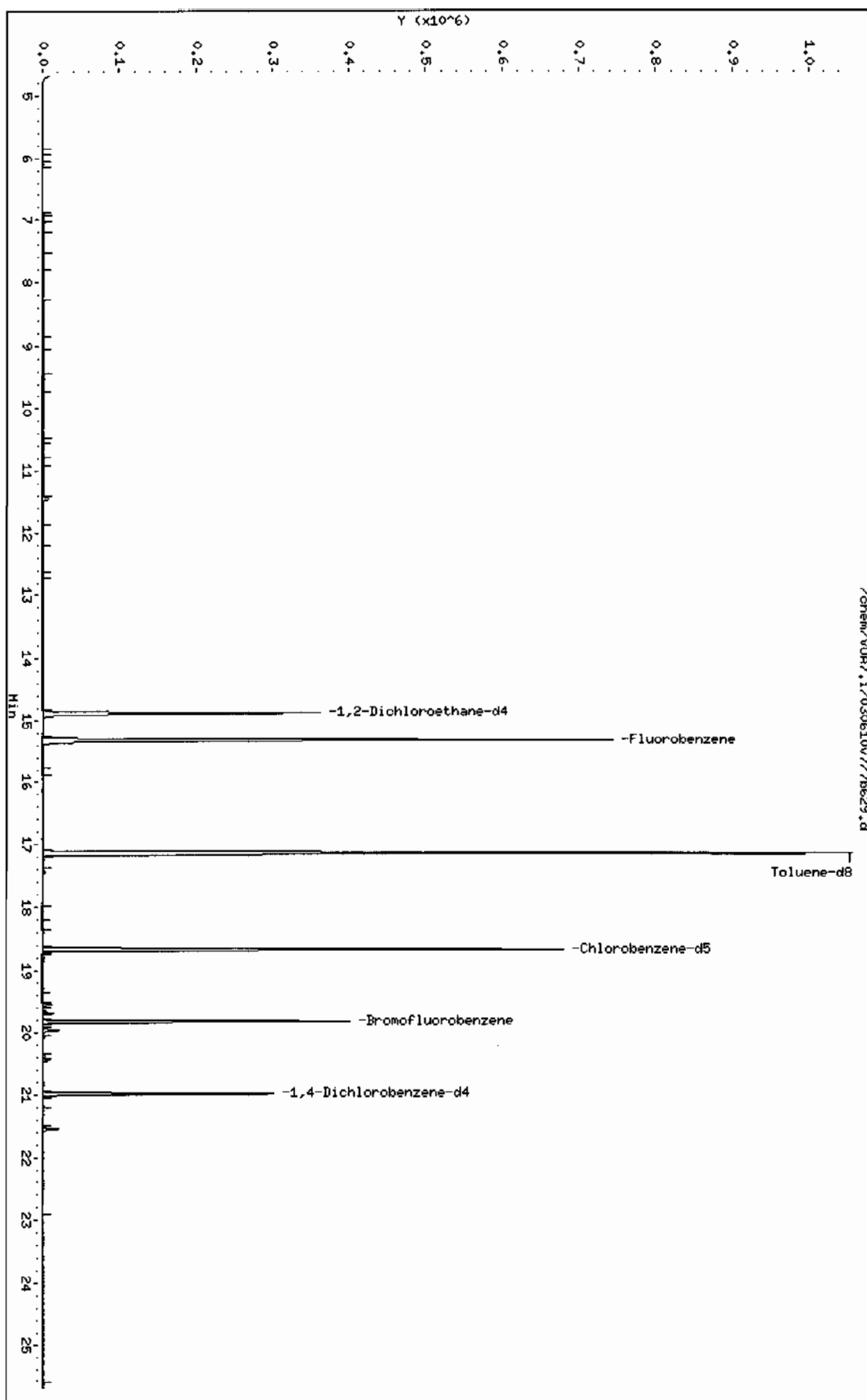
Column phase: DB-624

Instrument: V067.i

Operator: AX01

Column diameter: 0.25

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/09/2010 18:00	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:46	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c215.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.442	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.390	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.390	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.390	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.390	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.390	1.30
67-64-1	Acetone	U	6.50	ug/kg	2.16	6.50
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
74-88-4	Iodomethane	U	6.50	ug/kg	2.08	6.50
75-09-2	Methylene chloride	J	2.68	ug/kg	2.60	6.50
75-15-0	Carbon disulfide	U	6.50	ug/kg	1.62	6.50
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.390	1.30
78-93-3	2-Butanone	U	6.50	ug/kg	1.95	6.50
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.390	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.390	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.429	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.390	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.390	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.390	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.390	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.390	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.429	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.390	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.390	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.390	1.30
108-10-1	4-Methyl-2-pentanone	U	6.50	ug/kg	1.62	6.50
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.390	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.390	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.390	1.30
591-78-6	2-Hexanone	U	6.50	ug/kg	1.95	6.50
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.390	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.390	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.390	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.390	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.390	1.30

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
Client ID: RE36-10-7431	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/09/2010 18:00	Inst: VOA7.1	Dilution: 1
Prep Date: 03/09/2010 14:46	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7c215.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	1.30	ug/kg	0.390	1.30
179601-23-1	m,p-Xylenes	U	2.60	ug/kg	0.390	2.60
95-47-6	o-Xylene	U	1.30	ug/kg	0.390	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.390	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.390	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.390	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.390	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.390	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.390	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.390	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.390	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.390	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.390	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.390	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.390	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.390	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.50	ug/kg	2.08	6.50
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.390	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.390	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
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/030910v7/7c215.d

Lab Smp Id: 248197009

Client Smp ID: RE36-10-7431

Inj Date : 09-MAR-2010 18:00

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197009|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	23.03650	% 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)	1426633	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	884469	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	315295	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	566393	45.9519	59.7
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1425320	49.5131	64.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	491127	59.2167	76.9
22 Methylene chloride	86	11.439	11.449	(0.747)	12025	2.06309	2.7(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7c215.d

Report Date: 03/10/2010 06:14

Lab. ID: 248197009

SampleType: SAMPLE

Injection Date: 09-MAR-2010 18:00

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197009|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	12025	11.44	11.45	80-120	100	()
84	19610	11.45	11.44	124-184	163	()
49	30785	11.45	11.44	230-290	256	()

53 Trichloroethylene				CAS#: 79-01-6		
95	120914	15.32	15.76	80-120	100	(T)
97	101944	15.32	15.76	36- 96	84	(T)
130	631	15.77	15.76	58-118	1	(Q)

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	14663	17.13	16.93	80-120	100	(T)
43	8941	17.13	16.93	207-267	61	(QT)
100	1018397	17.13	16.94	0- 58	6945	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1682	19.82	19.54	80-120	100	(T)
175	23853	19.81	19.54	19- 79	1418	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030910v7/7c215.d
Report Date: 22-Mar-2010 21:33

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030910v7/7c215.d
Lab Smp Id: 248197009 Client Smp ID: RE36-10-7431
Inj Date : 09-MAR-2010 18:00
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197009|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

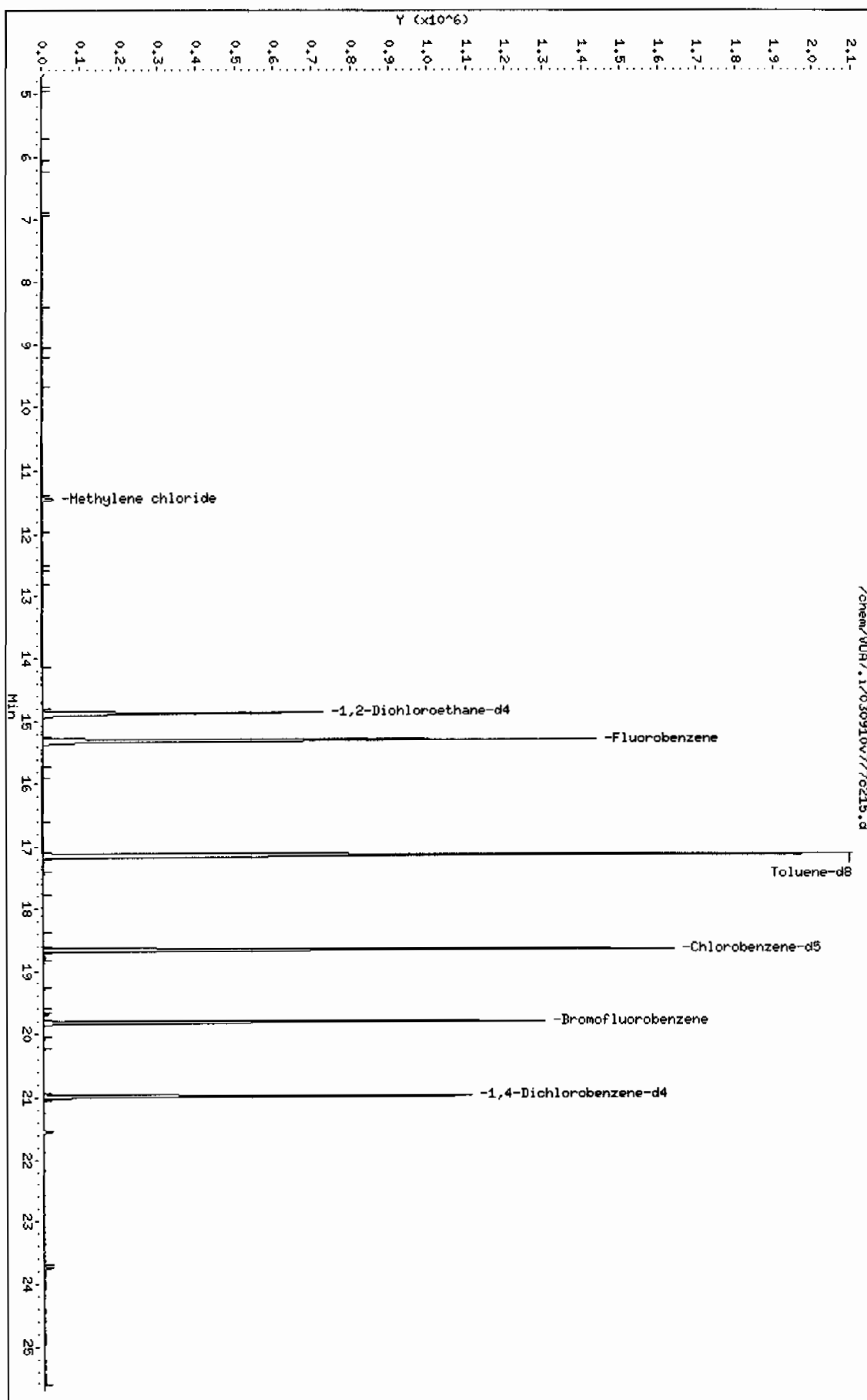
Data File: /chem/V0A7.i/030910v7/70215.d
Date : 09-MAR-2010 18:00
Client ID: RE36-10-7431
Sample Info: 1248197009196205911.V0A7111

Instrument: V0A7.i

Page 1

Column phase: DB-624

Operator: FXD1
Column diameter: 0.25



Date : 09-MAR-2010 18:00

Client ID: RE36-10-7431

Instrument: VOA7.1

Sample Info: 12481970091962059111VOAF111

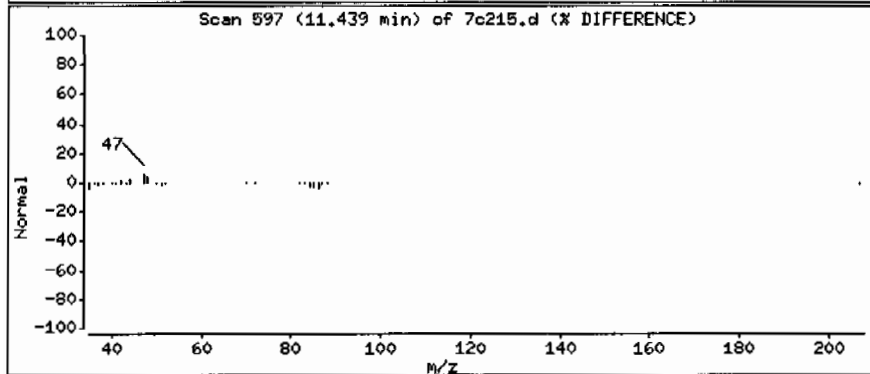
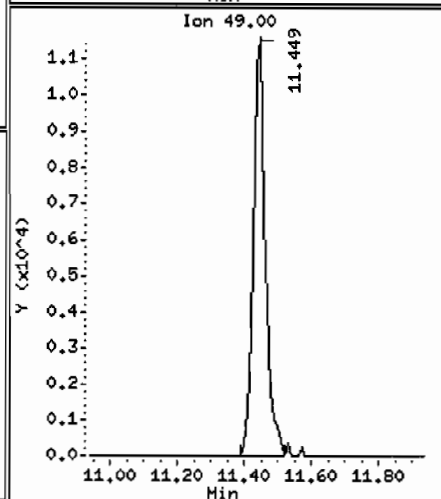
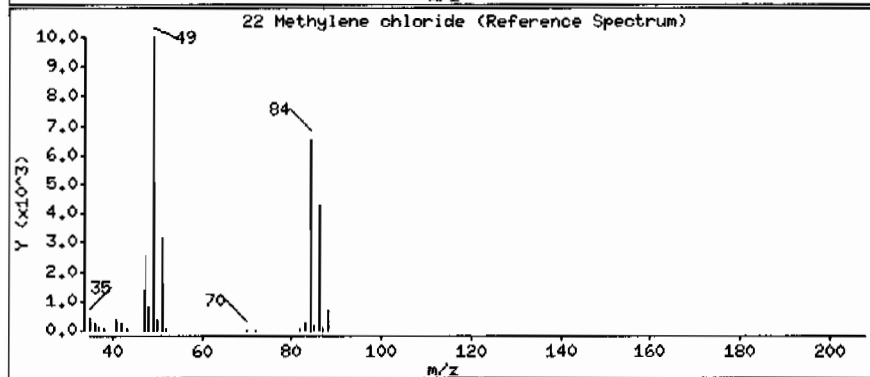
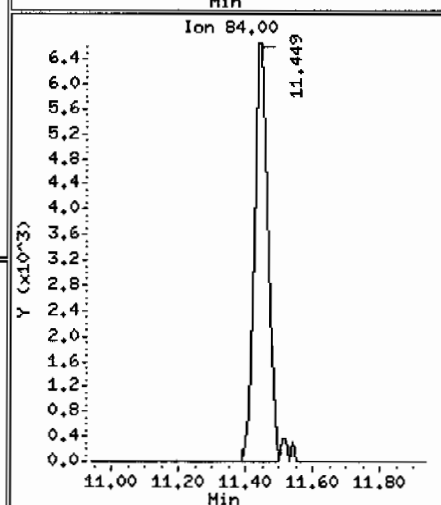
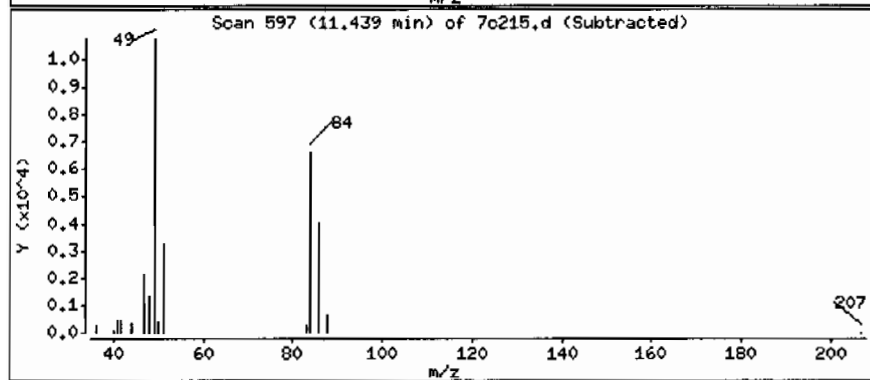
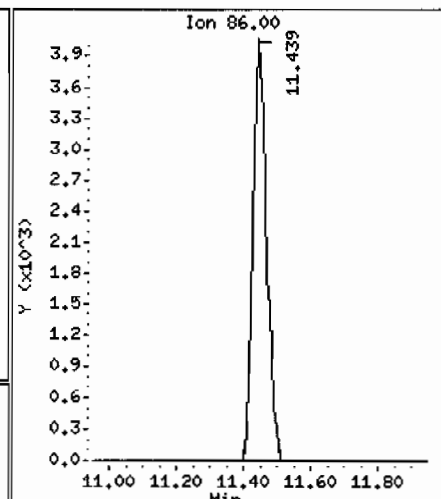
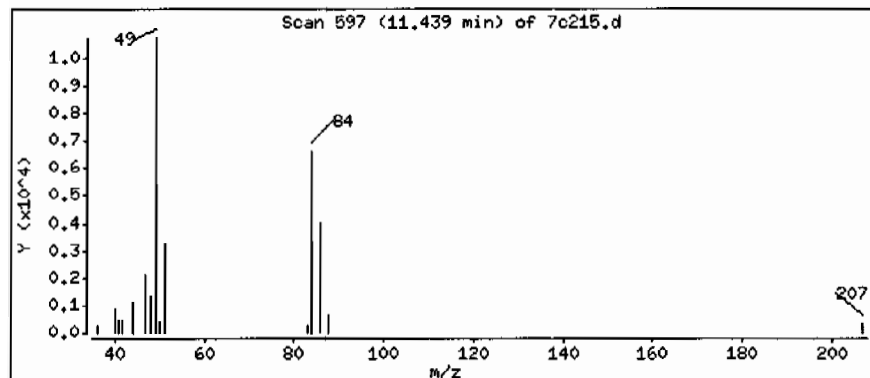
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 2.7 ug/Kg



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 21:50	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:28	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b618.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.16	ug/kg	0.394	1.16
74-87-3	Chloromethane	U	1.16	ug/kg	0.347	1.16
75-01-4	Vinyl chloride	U	1.16	ug/kg	0.347	1.16
74-83-9	Bromomethane	U	1.16	ug/kg	0.347	1.16
75-00-3	Chloroethane	U	1.16	ug/kg	0.347	1.16
75-69-4	Trichlorofluoromethane	U	1.16	ug/kg	0.347	1.16
67-64-1	Acetone	U	5.79	ug/kg	1.92	5.79
75-35-4	1,1-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
74-88-4	Iodomethane	U	5.79	ug/kg	1.85	5.79
75-09-2	Methylene chloride	U	5.79	ug/kg	2.32	5.79
75-15-0	Carbon disulfide	U	5.79	ug/kg	1.45	5.79
156-60-5	trans-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
75-34-3	1,1-Dichloroethane	U	1.16	ug/kg	0.347	1.16
78-93-3	2-Butanone	U	5.79	ug/kg	1.74	5.79
156-59-2	cis-1,2-Dichloroethylene	U	1.16	ug/kg	0.347	1.16
594-20-7	2,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16
67-66-3	Chloroform	U	1.16	ug/kg	0.347	1.16
74-97-5	Bromochloromethane	U	1.16	ug/kg	0.382	1.16
71-55-6	1,1,1-Trichloroethane	U	1.16	ug/kg	0.347	1.16
563-58-6	1,1-Dichloropropene	U	1.16	ug/kg	0.347	1.16
56-23-5	Carbon tetrachloride	U	1.16	ug/kg	0.347	1.16
107-06-2	1,2-Dichloroethane	U	1.16	ug/kg	0.347	1.16
71-43-2	Benzene	U	1.16	ug/kg	0.347	1.16
79-01-6	Trichloroethylene	U	1.16	ug/kg	0.382	1.16
78-87-5	1,2-Dichloropropane	U	1.16	ug/kg	0.347	1.16
75-27-4	Bromodichloromethane	U	1.16	ug/kg	0.347	1.16
74-95-3	Dibromomethane	U	1.16	ug/kg	0.347	1.16
108-10-1	4-Methyl-2-pentanone	U	5.79	ug/kg	1.45	5.79
10061-01-5	cis-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
108-88-3	Toluene	U	1.16	ug/kg	0.347	1.16
10061-02-6	trans-1,3-Dichloropropylene	U	1.16	ug/kg	0.347	1.16
79-00-5	1,1,2-Trichloroethane	U	1.16	ug/kg	0.347	1.16
591-78-6	2-Hexanone	U	5.79	ug/kg	1.74	5.79
142-28-9	1,3-Dichloropropane	U	1.16	ug/kg	0.347	1.16
127-18-4	Tetrachloroethylene	U	1.16	ug/kg	0.347	1.16
124-48-1	Dibromochloromethane	U	1.16	ug/kg	0.347	1.16
106-93-4	1,2-Dibromoethane	U	1.16	ug/kg	0.347	1.16
108-90-7	Chlorobenzene	U	1.16	ug/kg	0.347	1.16

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 21:50	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:28	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b618.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.16	ug/kg	0.347	1.16
179601-23-1	m,p-Xylenes	U	2.32	ug/kg	0.347	2.32
95-47-6	o-Xylene	U	1.16	ug/kg	0.347	1.16
100-42-5	Styrene	U	1.16	ug/kg	0.347	1.16
75-25-2	Bromoform	U	1.16	ug/kg	0.347	1.16
79-34-5	1,1,2,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
96-18-4	1,2,3-Trichloropropane	U	1.16	ug/kg	0.347	1.16
108-86-1	Bromobenzene	U	1.16	ug/kg	0.347	1.16
103-65-1	n-Propylbenzene	U	1.16	ug/kg	0.347	1.16
95-49-8	2-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-82-8	Isopropylbenzene	U	1.16	ug/kg	0.347	1.16
108-67-8	1,3,5-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
106-43-4	4-Chlorotoluene	U	1.16	ug/kg	0.347	1.16
98-06-6	tert-Butylbenzene	U	1.16	ug/kg	0.347	1.16
95-63-6	1,2,4-Trimethylbenzene	U	1.16	ug/kg	0.347	1.16
135-98-8	sec-Butylbenzene	U	1.16	ug/kg	0.347	1.16
99-87-6	4-Isopropyltoluene	U	1.16	ug/kg	0.347	1.16
541-73-1	1,3-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
106-46-7	1,4-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16
104-51-8	n-Butylbenzene	U	1.16	ug/kg	0.347	1.16
96-12-8	1,2-Dibromo-3-chloropropane	U	1.16	ug/kg	0.347	1.16
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.79	ug/kg	1.85	5.79
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.16	ug/kg	0.347	1.16
95-50-1	1,2-Dichlorobenzene	U	1.16	ug/kg	0.347	1.16

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/030610v7/7b618.d

Lab Smp Id: 248197008

Client Smp ID: RE36-10-7432

Inj Date : 06-MAR-2010 21:50

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197008|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 18

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	13.64830	% 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)	742419		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	487808		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	207506		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	284415		44.3406	51.3
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	801017		50.4525	58.4
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	263304		48.2385	55.9

ION RATIO REPORT

VOA REPORT

Data file: 7b618.d
Report Date: 03/08/2010 07:47
Lab. ID: 248197008
Injection Date: 06-MAR-2010 21:50
Operator: AX01
Sample Info: |248197008|962059|1|VOAF|1|
Miscellaneous Info: LANL 5g N/A
Comment:
Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Dilution Factor= 1.0
Integrator: HP RTE
Sample Matrix: SOIL

SampleType: SAMPLE

Instrument: VOA7.i

Compound Sublist: 10-2121

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9230	17.13	16.93	80-120	100	(T)
43	6049	17.13	16.93	218-278	66	(QT)
100	554400	17.13	16.94	0- 56	6006	(QT)

82	Bromoform			CAS#: 75-25-2		
173	711	19.81	19.53	80-120	100	(T)
175	13205	19.81	19.53	19- 79	1857	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b618.d
Report Date: 22-Mar-2010 21:19

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b618.d
Lab Smp Id: 248197008 Client Smp ID: RE36-10-7432
Inj Date : 06-MAR-2010 21:50
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197008|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V067.i/030610v7/7b618.d
Date : 06-MAR-2010 21:50
Client ID: RE36-10-7432
Sample Info: 1248197008196205911V06711

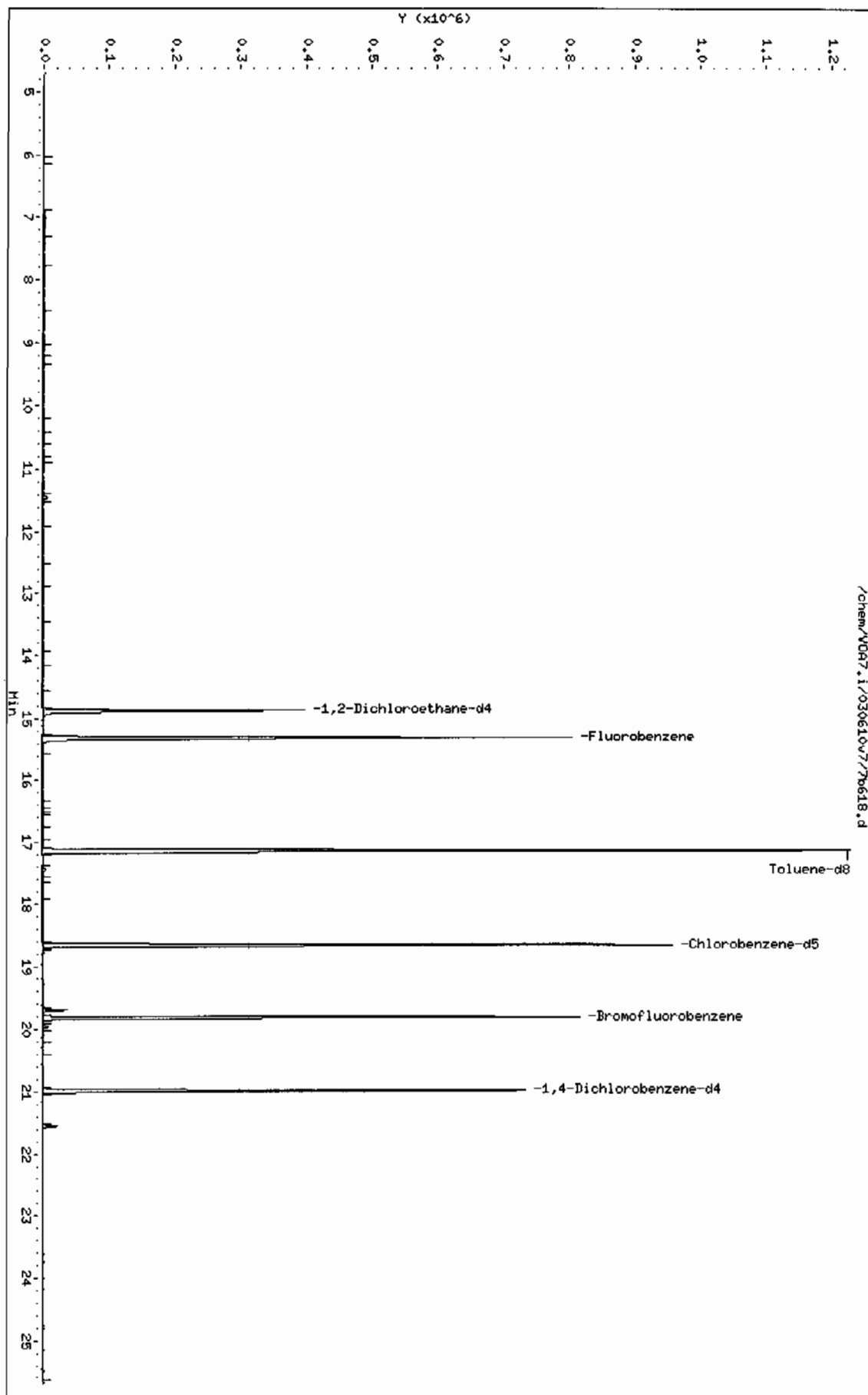
Column phase: DB-624

Instrument: V067.i

Operator: AX01

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/09/2010 19:40	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c218.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.40	ug/kg	0.476	1.40
74-87-3	Chloromethane	U	1.40	ug/kg	0.420	1.40
75-01-4	Vinyl chloride	U	1.40	ug/kg	0.420	1.40
74-83-9	Bromomethane	U	1.40	ug/kg	0.420	1.40
75-00-3	Chloroethane	U	1.40	ug/kg	0.420	1.40
75-69-4	Trichlorofluoromethane	U	1.40	ug/kg	0.420	1.40
67-64-1	Acetone	U	7.00	ug/kg	2.33	7.00
75-35-4	1,1-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
74-88-4	Iodomethane	U	7.00	ug/kg	2.24	7.00
75-09-2	Methylene chloride	U	7.00	ug/kg	2.80	7.00
75-15-0	Carbon disulfide	U	7.00	ug/kg	1.75	7.00
156-60-5	trans-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
75-34-3	1,1-Dichloroethane	U	1.40	ug/kg	0.420	1.40
78-93-3	2-Butanone	U	7.00	ug/kg	2.10	7.00
156-59-2	cis-1,2-Dichloroethylene	U	1.40	ug/kg	0.420	1.40
594-20-7	2,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
67-66-3	Chloroform	U	1.40	ug/kg	0.420	1.40
74-97-5	Bromochloromethane	U	1.40	ug/kg	0.462	1.40
71-55-6	1,1,1-Trichloroethane	U	1.40	ug/kg	0.420	1.40
563-58-6	1,1-Dichloropropene	U	1.40	ug/kg	0.420	1.40
56-23-5	Carbon tetrachloride	U	1.40	ug/kg	0.420	1.40
107-06-2	1,2-Dichloroethane	U	1.40	ug/kg	0.420	1.40
71-43-2	Benzene	U	1.40	ug/kg	0.420	1.40
79-01-6	Trichloroethylene	U	1.40	ug/kg	0.462	1.40
78-87-5	1,2-Dichloropropane	U	1.40	ug/kg	0.420	1.40
75-27-4	Bromodichloromethane	U	1.40	ug/kg	0.420	1.40
74-95-3	Dibromomethane	U	1.40	ug/kg	0.420	1.40
108-10-1	4-Methyl-2-pentanone	U	7.00	ug/kg	1.75	7.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
108-88-3	Toluene	U	1.40	ug/kg	0.420	1.40
10061-02-6	trans-1,3-Dichloropropylene	U	1.40	ug/kg	0.420	1.40
79-00-5	1,1,2-Trichloroethane	U	1.40	ug/kg	0.420	1.40
591-78-6	2-Hexanone	U	7.00	ug/kg	2.10	7.00
142-28-9	1,3-Dichloropropane	U	1.40	ug/kg	0.420	1.40
127-18-4	Tetrachloroethylene	U	1.40	ug/kg	0.420	1.40
124-48-1	Dibromochloromethane	U	1.40	ug/kg	0.420	1.40
106-93-4	1,2-Dibromoethane	U	1.40	ug/kg	0.420	1.40
108-90-7	Chlorobenzene	U	1.40	ug/kg	0.420	1.40

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/09/2010 19:40	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/09/2010 14:52	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7c218.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.40	ug/kg	0.420	1.40
179601-23-1	m,p-Xylenes	U	2.80	ug/kg	0.420	2.80
95-47-6	o-Xylene	U	1.40	ug/kg	0.420	1.40
100-42-5	Styrene	U	1.40	ug/kg	0.420	1.40
75-25-2	Bromoform	U	1.40	ug/kg	0.420	1.40
79-34-5	1,1,2,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
96-18-4	1,2,3-Trichloropropane	U	1.40	ug/kg	0.420	1.40
108-86-1	Bromobenzene	U	1.40	ug/kg	0.420	1.40
103-65-1	n-Propylbenzene	U	1.40	ug/kg	0.420	1.40
95-49-8	2-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-82-8	Isopropylbenzene	U	1.40	ug/kg	0.420	1.40
108-67-8	1,3,5-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
106-43-4	4-Chlorotoluene	U	1.40	ug/kg	0.420	1.40
98-06-6	tert-Butylbenzene	U	1.40	ug/kg	0.420	1.40
95-63-6	1,2,4-Trimethylbenzene	U	1.40	ug/kg	0.420	1.40
135-98-8	sec-Butylbenzene	U	1.40	ug/kg	0.420	1.40
99-87-6	4-Isopropyltoluene	U	1.40	ug/kg	0.420	1.40
541-73-1	1,3-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
106-46-7	1,4-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40
104-51-8	n-Butylbenzene	U	1.40	ug/kg	0.420	1.40
96-12-8	1,2-Dibromo-3-chloropropane	U	1.40	ug/kg	0.420	1.40
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	7.00	ug/kg	2.24	7.00
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.40	ug/kg	0.420	1.40
95-50-1	1,2-Dichlorobenzene	U	1.40	ug/kg	0.420	1.40

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/030910v7/7c218.d
Report Date: 22-Mar-2010 21:35

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030910v7/7c218.d

Lab Smp Id: 248197013

Client Smp ID: RE36-10-7433

Inj Date : 09-MAR-2010 19:40

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197013|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 18

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	28.61360	% 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 (ug/l)	FINAL (ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	1188420		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	760573		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	298946		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	491674		47.8856	67.1
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1268503		51.2437	71.8
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	451874		57.4635	80.5

ION RATIO REPORT

VOA REPORT

Data file: 7c218.d

Report Date: 03/10/2010 06:14

Lab. ID: 248197013

SampleType: SAMPLE

Injection Date: 09-MAR-2010 19:40

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197013|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53 Trichloroethylene				CAS#: 79-01-6		
95	98768	15.32	15.76	80-120	100	(T)
97	82462	15.32	15.76	36- 96	83	(T)
130	770	15.77	15.76	58-118	1	(Q)

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	13535	17.13	16.93	80-120	100	(T)
43	8312	17.13	16.93	207-267	61	(QT)
100	893266	17.13	16.94	0- 58	6599	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1146	19.81	19.54	80-120	100	(T)
175	21341	19.81	19.54	19- 79	1861	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030910v7/7c218.d
Report Date: 22-Mar-2010 21:35

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030910v7/7c218.d
Lab Smp Id: 248197013 Client Smp ID: RE36-10-7433
Inj Date : 09-MAR-2010 19:40
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197013|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V067.i/030910v7/7c218.d

Date : 09-MAR-2010 19:40

Client ID: REC6-10-7433

Sample Info: 1248197013196205911.V06711

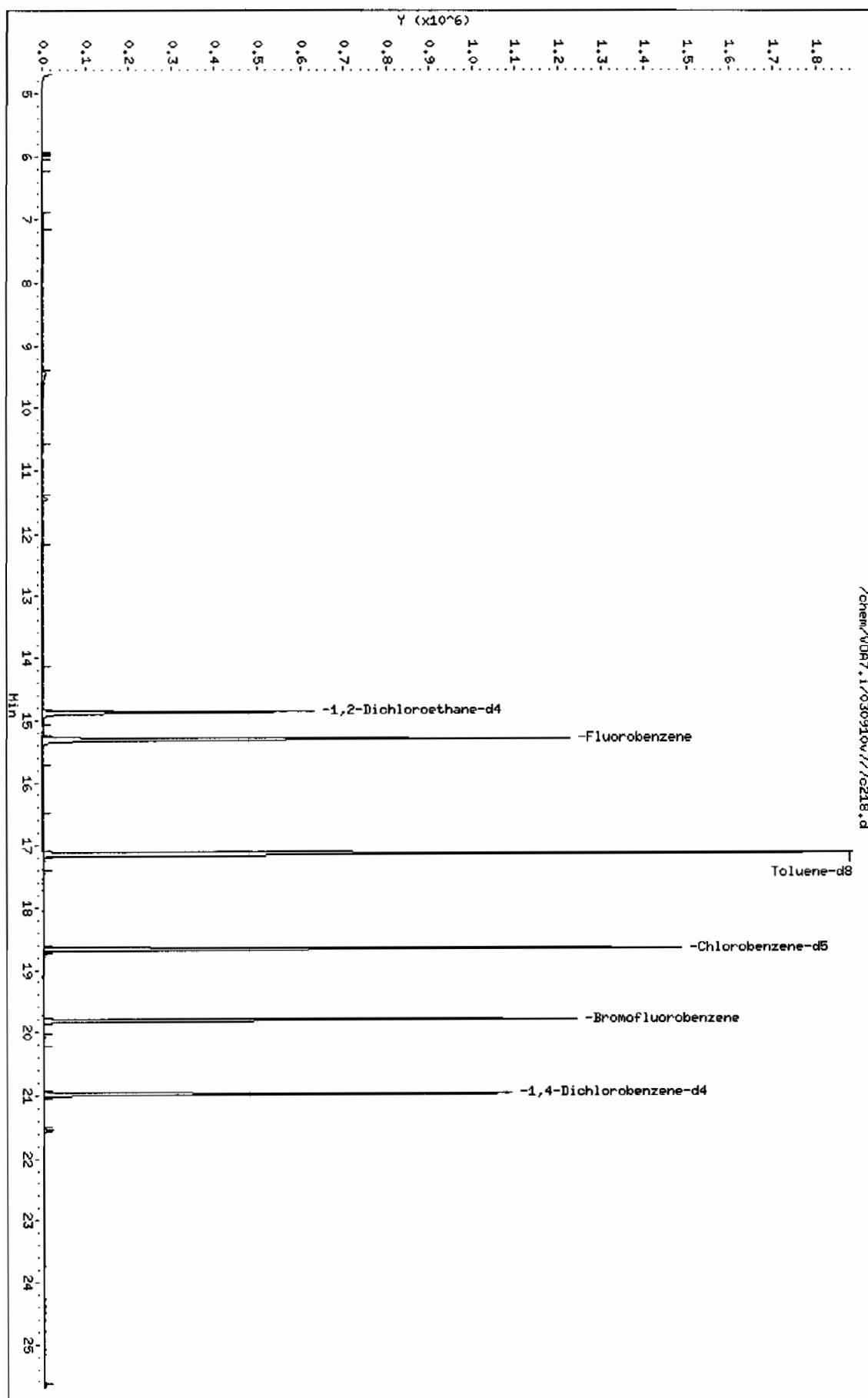
Column phase: DB-624

Instrument: V067.i

Operator: AXD1

Column diameter: 0.25

Page 1



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
 Date Received: 02/26/2010 08:45
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 22.9
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE36-10-7434
 Batch ID: 962059
 Run Date: 03/06/2010 22:56
 Prep Date: 03/05/2010 16:32
 Data File: 7b620.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.30	ug/kg	0.441	1.30
74-87-3	Chloromethane	U	1.30	ug/kg	0.389	1.30
75-01-4	Vinyl chloride	U	1.30	ug/kg	0.389	1.30
74-83-9	Bromomethane	U	1.30	ug/kg	0.389	1.30
75-00-3	Chloroethane	U	1.30	ug/kg	0.389	1.30
75-69-4	Trichlorofluoromethane	U	1.30	ug/kg	0.389	1.30
67-64-1	Acetone	U	6.48	ug/kg	2.15	6.48
75-35-4	1,1-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
74-88-4	Iodomethane	U	6.48	ug/kg	2.07	6.48
75-09-2	Methylene chloride	U	6.48	ug/kg	2.59	6.48
75-15-0	Carbon disulfide	U	6.48	ug/kg	1.62	6.48
156-60-5	trans-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
75-34-3	1,1-Dichloroethane	U	1.30	ug/kg	0.389	1.30
78-93-3	2-Butanone	U	6.48	ug/kg	1.94	6.48
156-59-2	cis-1,2-Dichloroethylene	U	1.30	ug/kg	0.389	1.30
594-20-7	2,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30
67-66-3	Chloroform	U	1.30	ug/kg	0.389	1.30
74-97-5	Bromochloromethane	U	1.30	ug/kg	0.428	1.30
71-55-6	1,1,1-Trichloroethane	U	1.30	ug/kg	0.389	1.30
563-58-6	1,1-Dichloropropene	U	1.30	ug/kg	0.389	1.30
56-23-5	Carbon tetrachloride	U	1.30	ug/kg	0.389	1.30
107-06-2	1,2-Dichloroethane	U	1.30	ug/kg	0.389	1.30
71-43-2	Benzene	U	1.30	ug/kg	0.389	1.30
79-01-6	Trichloroethylene	U	1.30	ug/kg	0.428	1.30
78-87-5	1,2-Dichloropropane	U	1.30	ug/kg	0.389	1.30
75-27-4	Bromodichloromethane	U	1.30	ug/kg	0.389	1.30
74-95-3	Dibromomethane	U	1.30	ug/kg	0.389	1.30
108-10-1	4-Methyl-2-pentanone	U	6.48	ug/kg	1.62	6.48
10061-01-5	cis-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
108-88-3	Toluene	U	1.30	ug/kg	0.389	1.30
10061-02-6	trans-1,3-Dichloropropylene	U	1.30	ug/kg	0.389	1.30
79-00-5	1,1,2-Trichloroethane	U	1.30	ug/kg	0.389	1.30
591-78-6	2-Hexanone	U	6.48	ug/kg	1.94	6.48
142-28-9	1,3-Dichloropropane	U	1.30	ug/kg	0.389	1.30
127-18-4	Tetrachloroethylene	U	1.30	ug/kg	0.389	1.30
124-48-1	Dibromochloromethane	U	1.30	ug/kg	0.389	1.30
106-93-4	1,2-Dibromoethane	U	1.30	ug/kg	0.389	1.30
108-90-7	Chlorobenzene	U	1.30	ug/kg	0.389	1.30

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE36-10-7434
Batch ID: 962059
Run Date: 03/06/2010 22:56
Prep Date: 03/05/2010 16:32
Data File: 7b620.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.30	ug/kg	0.389	1.30
179601-23-1	m,p-Xylenes	U	2.59	ug/kg	0.389	2.59
95-47-6	o-Xylene	U	1.30	ug/kg	0.389	1.30
100-42-5	Styrene	U	1.30	ug/kg	0.389	1.30
75-25-2	Bromoform	U	1.30	ug/kg	0.389	1.30
79-34-5	1,1,2,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
96-18-4	1,2,3-Trichloropropane	U	1.30	ug/kg	0.389	1.30
108-86-1	Bromobenzene	U	1.30	ug/kg	0.389	1.30
103-65-1	n-Propylbenzene	U	1.30	ug/kg	0.389	1.30
95-49-8	2-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-82-8	Isopropylbenzene	U	1.30	ug/kg	0.389	1.30
108-67-8	1,3,5-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
106-43-4	4-Chlorotoluene	U	1.30	ug/kg	0.389	1.30
98-06-6	tert-Butylbenzene	U	1.30	ug/kg	0.389	1.30
95-63-6	1,2,4-Trimethylbenzene	U	1.30	ug/kg	0.389	1.30
135-98-8	sec-Butylbenzene	U	1.30	ug/kg	0.389	1.30
99-87-6	4-Isopropyltoluene	U	1.30	ug/kg	0.389	1.30
541-73-1	1,3-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
106-46-7	1,4-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30
104-51-8	n-Butylbenzene	U	1.30	ug/kg	0.389	1.30
96-12-8	1,2-Dibromo-3-chloropropane	U	1.30	ug/kg	0.389	1.30
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.48	ug/kg	2.07	6.48
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.30	ug/kg	0.389	1.30
95-50-1	1,2-Dichlorobenzene	U	1.30	ug/kg	0.389	1.30

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	9.4	15.4	ug/kg		J

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b620.d

Lab Smp Id: 248197010

Client Smp ID: RE36-10-7434

Inj Date : 06-MAR-2010 22:56

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197010|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 20

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	22.86970	% 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)	698256	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	401289	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992 (1.000)	122775	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	253997	42.1029	54.6
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	717006	54.8979	71.2
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	173943	53.8597	69.8

ION RATIO REPORT

VOA REPORT

Data file: 7b620.d

Report Date: 03/08/2010 07:47

Lab. ID: 248197010

SampleType: SAMPLE

Injection Date: 06-MAR-2010 22:56

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197010|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	8196	17.13	16.93	80-120	100	(T)
43	5745	17.13	16.93	218-278	70	(QT)
100	487998	17.13	16.94	0- 56	5954	(QT)

95	tert-Butylbenzene			CAS#: 98-06-6		
119	1799	20.61	20.52	80-120	100	(T)
91	5670	20.62	20.52	47-107	315	(QT)
134	471	20.62	20.52	0- 53	26	(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/030610v7/7b620.d
 Lab Smp Id: 248197010 Client Smp ID: RE36-10-7434
 Inj Date : 06-MAR-2010 22:56
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |248197010|962059|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-2121.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	22.86970	% 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	1623215	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
9.398	386115	11.8935281	15.4	0		0	51

Data File: /chem/V0A7.i/030610v7/7b620.d

Date : 06-MAR-2010 22:56

Client ID: RE36-10-7434

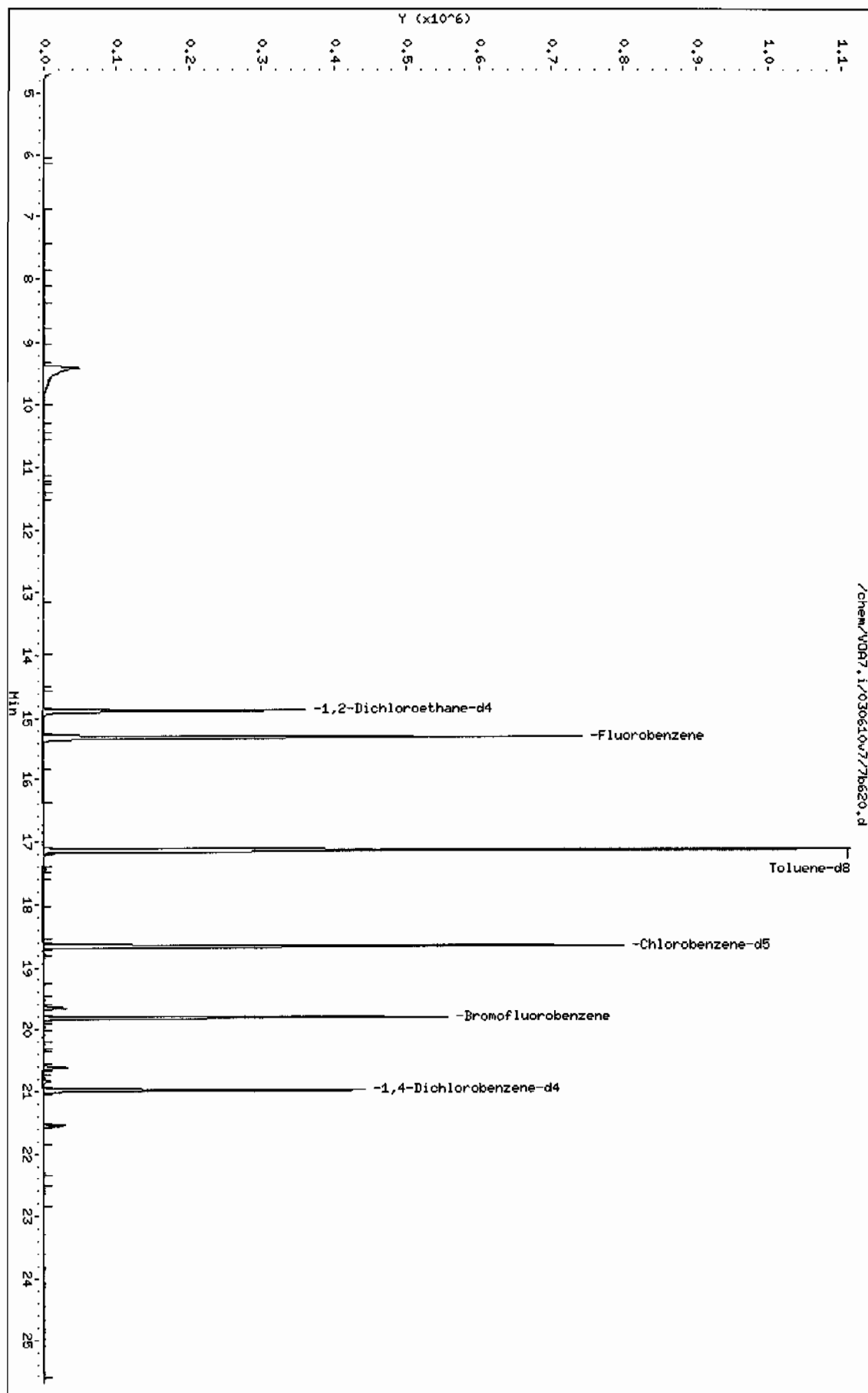
Sample Info: 1246137010196205911V0A71.i

Column phase: DB-624

Instrument: V0A7.i

Operator: RX01

Column diameter: 0.25



Data File: /chem/VOA7.i/030610v7/7b620.d

Page 1

Date : 06-MAR-2010 22:56

Client ID: RE36-10-7434

Instrument: VOA7.i

Sample Info: I248197010196205911\VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

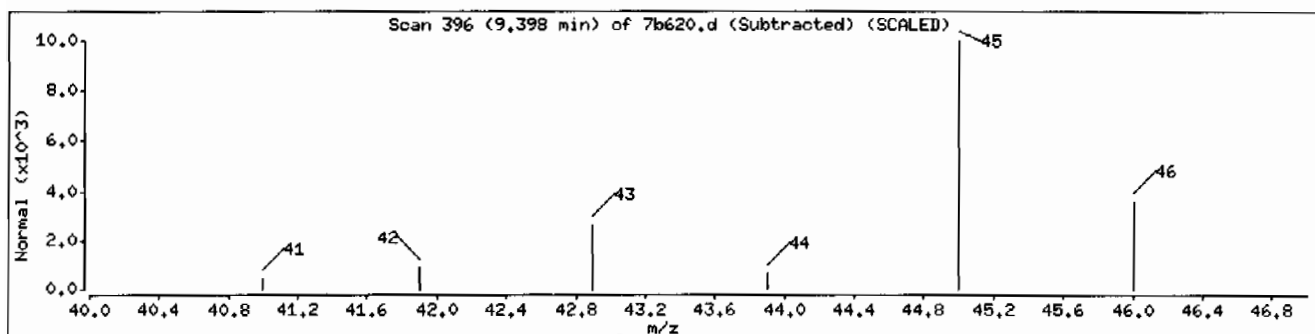
Weight

Unknown

0

0

0



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
Client ID: RE36-10-7516	Client: LANL010	Project: LANL01004
Batch ID: 962059	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/06/2010 20:09	Inst: VOA7.1	Dilution: 1
Prep Date: 03/05/2010 16:22	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b615.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	1.22	ug/kg	0.415	1.22
74-87-3	Chloromethane	U	1.22	ug/kg	0.366	1.22
75-01-4	Vinyl chloride	U	1.22	ug/kg	0.366	1.22
74-83-9	Bromomethane	U	1.22	ug/kg	0.366	1.22
75-00-3	Chloroethane	U	1.22	ug/kg	0.366	1.22
75-69-4	Trichlorofluoromethane	U	1.22	ug/kg	0.366	1.22
67-64-1	Acetone	U	6.10	ug/kg	2.03	6.10
75-35-4	1,1-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
74-88-4	Iodomethane	U	6.10	ug/kg	1.95	6.10
75-09-2	Methylene chloride	U	6.10	ug/kg	2.44	6.10
75-15-0	Carbon disulfide	U	6.10	ug/kg	1.53	6.10
156-60-5	trans-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
75-34-3	1,1-Dichloroethane	U	1.22	ug/kg	0.366	1.22
78-93-3	2-Butanone	U	6.10	ug/kg	1.83	6.10
156-59-2	cis-1,2-Dichloroethylene	U	1.22	ug/kg	0.366	1.22
594-20-7	2,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22
67-66-3	Chloroform	U	1.22	ug/kg	0.366	1.22
74-97-5	Bromochloromethane	U	1.22	ug/kg	0.403	1.22
71-55-6	1,1,1-Trichloroethane	U	1.22	ug/kg	0.366	1.22
563-58-6	1,1-Dichloropropene	U	1.22	ug/kg	0.366	1.22
56-23-5	Carbon tetrachloride	U	1.22	ug/kg	0.366	1.22
107-06-2	1,2-Dichloroethane	U	1.22	ug/kg	0.366	1.22
71-43-2	Benzene	U	1.22	ug/kg	0.366	1.22
79-01-6	Trichloroethylene	U	1.22	ug/kg	0.403	1.22
78-87-5	1,2-Dichloropropane	U	1.22	ug/kg	0.366	1.22
75-27-4	Bromodichloromethane	U	1.22	ug/kg	0.366	1.22
74-95-3	Dibromomethane	U	1.22	ug/kg	0.366	1.22
108-10-1	4-Methyl-2-pentanone	U	6.10	ug/kg	1.53	6.10
10061-01-5	cis-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
108-88-3	Toluene	U	1.22	ug/kg	0.366	1.22
10061-02-6	trans-1,3-Dichloropropylene	U	1.22	ug/kg	0.366	1.22
79-00-5	1,1,2-Trichloroethane	U	1.22	ug/kg	0.366	1.22
591-78-6	2-Hexanone	U	6.10	ug/kg	1.83	6.10
142-28-9	1,3-Dichloropropane	U	1.22	ug/kg	0.366	1.22
127-18-4	Tetrachloroethylene	U	1.22	ug/kg	0.366	1.22
124-48-1	Dibromochloromethane	U	1.22	ug/kg	0.366	1.22
106-93-4	1,2-Dibromoethane	U	1.22	ug/kg	0.366	1.22
108-90-7	Chlorobenzene	U	1.22	ug/kg	0.366	1.22

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7516	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/06/2010 20:09	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:22	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b615.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.22	ug/kg	0.366	1.22
179601-23-1	m,p-Xylenes	U	2.44	ug/kg	0.366	2.44
95-47-6	o-Xylene	U	1.22	ug/kg	0.366	1.22
100-42-5	Styrene	U	1.22	ug/kg	0.366	1.22
75-25-2	Bromoform	U	1.22	ug/kg	0.366	1.22
79-34-5	1,1,2,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
96-18-4	1,2,3-Trichloropropane	U	1.22	ug/kg	0.366	1.22
108-86-1	Bromobenzene	U	1.22	ug/kg	0.366	1.22
103-65-1	n-Propylbenzene	U	1.22	ug/kg	0.366	1.22
95-49-8	2-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-82-8	Isopropylbenzene	U	1.22	ug/kg	0.366	1.22
108-67-8	1,3,5-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
106-43-4	4-Chlorotoluene	U	1.22	ug/kg	0.366	1.22
98-06-6	tert-Butylbenzene	U	1.22	ug/kg	0.366	1.22
95-63-6	1,2,4-Trimethylbenzene	U	1.22	ug/kg	0.366	1.22
135-98-8	sec-Butylbenzene	U	1.22	ug/kg	0.366	1.22
99-87-6	4-Isopropyltoluene	U	1.22	ug/kg	0.366	1.22
541-73-1	1,3-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
106-46-7	1,4-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22
104-51-8	n-Butylbenzene	U	1.22	ug/kg	0.366	1.22
96-12-8	1,2-Dibromo-3-chloropropane	U	1.22	ug/kg	0.366	1.22
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.10	ug/kg	1.95	6.10
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.22	ug/kg	0.366	1.22
95-50-1	1,2-Dichlorobenzene	U	1.22	ug/kg	0.366	1.22

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/030610v7/7b615.d
Report Date: 22-Mar-2010 21:14

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b615.d

Lab Smp Id: 248197005

Client Smp ID: RE36-10-7516

Inj Date : 06-MAR-2010 20:09

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197005|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
M	18.08840	% 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)	749444		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	500047		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	216715		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	301404		46.5487	56.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	799882		49.1479	60.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	273265		47.9360	58.5

ION RATIO REPORT

VOA REPORT

Data file: 7b615.d

Report Date: 03/08/2010 07:47

Lab. ID: 248197005

SampleType: SAMPLE

Injection Date: 06-MAR-2010 20:09

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197005|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	9186	17.13	16.93	80-120	100	(T)
43	5985	17.13	16.93	218-278	65	(QT)
100	545558	17.13	16.94	0- 56	5939	(QT)

82	Bromoform			CAS#: 75-25-2		
173	936	19.81	19.53	80-120	100	(T)
175	14457	19.81	19.53	19- 79	1544	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030610v7/7b615.d
Report Date: 22-Mar-2010 21:14

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b615.d
Lab Smp Id: 248197005 Client Smp ID: RE36-10-7516
Inj Date : 06-MAR-2010 20:09
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197005|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.i/030610v7/7b615.d

Date : 06-MAR-2010 20:09

Client ID: RE36-10-7516

Sample Info: 1248197005|96205914|V0A711

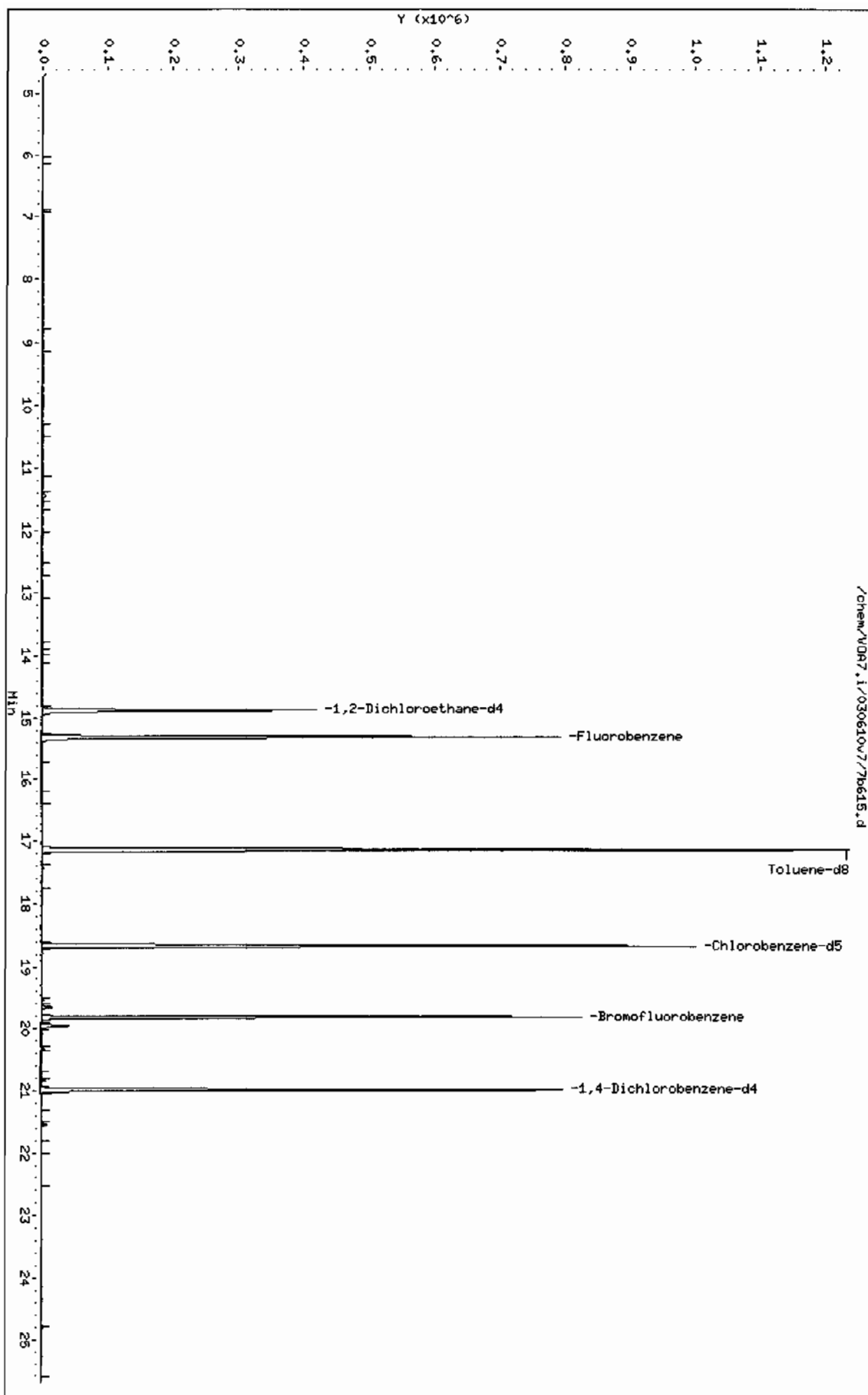
Column phase: DB-624

Instrument: V0A7.i

Operator: RX01

Column diameter: 0.25

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197006	Date Received: 02/26/2010 08:45	
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7540	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 20:42	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b616.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: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197006	Date Received: 02/26/2010 08:45	
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7540	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 20:42	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b616.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
	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/030610v7/7b616.d

Lab Smp Id: 248197006

Client Smp ID: RE36-10-7540

Inj Date : 06-MAR-2010 20:42

Operator : AX01

Inst ID: VOA7.i

Smp Info : |248197006|962059|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.sub

Target Version: 3.50

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)	743056	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	496802	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	224627	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	283672	44.1868	44.2
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	811328	50.1768	50.2
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	279630	47.3248	47.3

ION RATIO REPORT

VOA REPORT

Data file: 7b616.d

Report Date: 03/08/2010 07:47

Lab. ID: 248197006

SampleType: SAMPLE

Injection Date: 06-MAR-2010 20:42

Operator: AX01

Instrument: VOA7.i

Sample Info: |248197006|962059|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10204	17.13	16.93	80-120	100	(T)
43	5852	17.13	16.93	218-278	57	(QT)
100	567717	17.13	16.94	0- 56	5563	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1132	19.81	19.53	80-120	100	(T)
175	16361	19.81	19.53	19- 79	1444	(QT)

Q qualifier indicates ion failed ratio requirement

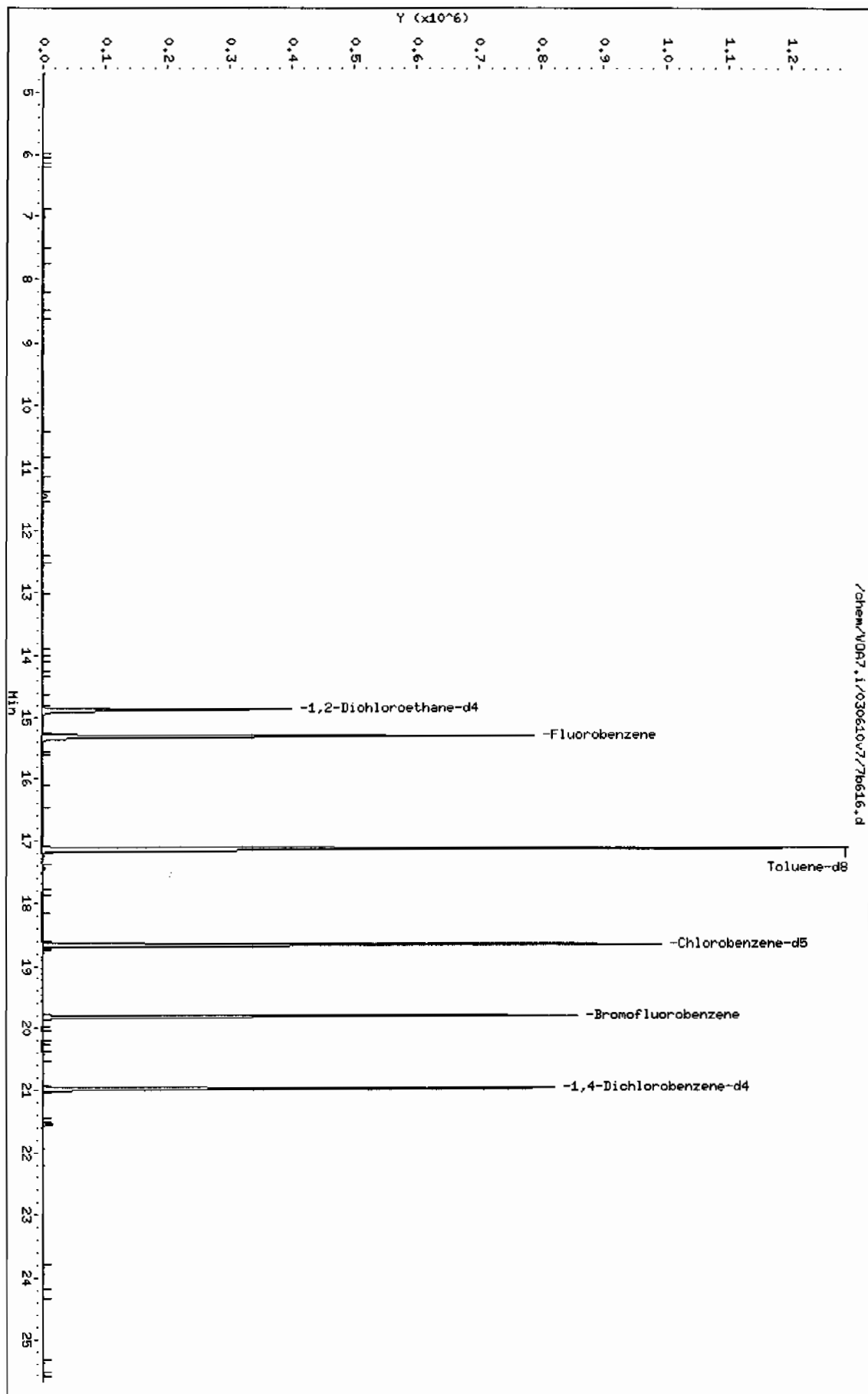
GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b616.d
Lab Smp Id: 248197006 Client Smp ID: RE36-10-7540
Inj Date : 06-MAR-2010 20:42
Operator : AX01 Inst ID: VOA7.i
Smp Info : |248197006|962059|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V087.1/030610v7/7b616.d
Date : 06-MAR-2010 20:42
Client ID: RE36-10-7540
Sample Info: 1248197006196205911.V087.11
Column phase: DB-624

Instrument: V087.1
Operator: AX01
Column diameter: 0.25



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 I	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: 06-Mar-2010 17:13

Calibration History

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Start Cal Date: 17-FEB-2010 16:02
End Cal Date : 18-FEB-2010 00:42

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
17-FEB-2010 21:14	ICALsubS	/chem/VOA7.i/021710v7/7z319.d
17-FEB-2010 16:02	ICALsubL+	/chem/VOA7.i/021710v7/7z310.d
Cal Level: 2 , Cal Amount: 2.00000		
17-FEB-2010 21:49	ICALsubS	/chem/VOA7.i/021710v7/7z320.d
17-FEB-2010 16:35	ICALsubL+	/chem/VOA7.i/021710v7/7z311.d
Cal Level: 3 , Cal Amount: 5.00000		
17-FEB-2010 22:24	ICALsubS	/chem/VOA7.i/021710v7/7z321.d
17-FEB-2010 17:09	ICALsubL+	/chem/VOA7.i/021710v7/7z312.d
Cal Level: 4 , Cal Amount: 10.00000		
17-FEB-2010 22:59	ICALsubS	/chem/VOA7.i/021710v7/7z322.d
17-FEB-2010 17:44	ICALsubL+	/chem/VOA7.i/021710v7/7z313.d
Cal Level: 5 , Cal Amount: 20.00000		
17-FEB-2010 23:33	ICALsubS	/chem/VOA7.i/021710v7/7z323.d
17-FEB-2010 18:20	ICALsubL+	/chem/VOA7.i/021710v7/7z314.d
Cal Level: 6 , Cal Amount: 50.00000		
18-FEB-2010 00:08	ICALsubS	/chem/VOA7.i/021710v7/7z324.d
17-FEB-2010 18:55	ICALsubL+	/chem/VOA7.i/021710v7/7z315.d
Cal Level: 7 , Cal Amount: 100.00000		
18-FEB-2010 00:42	ICALsubS	/chem/VOA7.i/021710v7/7z325.d
17-FEB-2010 19:30	ICALsubL+	/chem/VOA7.i/021710v7/7z316.d
Cal Level: 8 , Cal Amount: 200.00000		
17-FEB-2010 20:39	BENZENE+	/chem/VOA7.i/021710v7/7z318.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

| Ccal Level: 6 , Ccal Amount: 50.0		|
| 06-MAR-2010 12:41 | CALsubL+	| /chem/VOA7.i/030610v7/7b602.d	|
| Ccal Level: 6 , Ccal Amount: 50.0		|
| 06-MAR-2010 14:39 | CALsubS+SS	| /chem/VOA7.i/030610v7/7b605.d	|

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 ale01592

Calibration File Names:

Level 1: /chem/VOA7.i/021710v7/7z319.d
 Level 2: /chem/VOA7.i/021710v7/7z320.d
 Level 3: /chem/VOA7.i/021710v7/7z321.d
 Level 4: /chem/VOA7.i/021710v7/7z322.d
 Level 5: /chem/VOA7.i/021710v7/7z323.d
 Level 6: /chem/VOA7.i/021710v7/7z324.d
 Level 7: /chem/VOA7.i/021710v7/7z325.d
 Level 8: /chem/VOA7.i/021710v7/7z318.d

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	8RSD or R^2
1,3-Dichloropropylene	0.42063 0.47574	0.42665 ++++	0.45952 0.45952	0.44593 0.44593	0.48874 0.48874	0.44785 0.44785	AVRG AVRG		0.45215 0.45215		5.45519 5.45519
2 Xylenes (total)	0.62830 0.62692	0.67143 ++++	0.66860 0.66860	0.64173 0.64173	0.68474 0.68474	0.59685 0.59685	AVRG AVRG		0.64551 0.64551		4.80271 4.80271
1,2-Dichloroethylene (total)	0.54927 0.46213	0.50779 ++++	0.51933 0.51933	0.49776 0.49776	0.47859 0.47859	0.45089 0.45089	AVRG AVRG		0.49511 0.49511		6.90087 6.90087
47 Chlorotrifluoroethylene	++++ ++++	0.10076 ++++	0.11210 0.11210	0.09704 0.09704	0.11905 0.11905	0.10241 0.10241	AVRG AVRG		0.10627 0.10627		8.51602 8.51602
148 2-Chloro-1,1,1-trifluoroethane	++++ 0.18804	0.23271 ++++	0.22089 0.22089	0.21365 0.21365	0.20617 0.20617	0.20476 0.20476	AVRG AVRG		0.21104 0.21104		7.23518 7.23518

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	iCurve	b	Coefficients ml	m2	%RSD or R ²
	100	200									
	Level 7	Level 8									
4 Dichlorodifluoromethane	0.14689	0.16337	0.17771	0.15010	0.15669	0.14834					
	0.14671	++++					AVRG		0.15569		7.36086
5 Chloromethane	0.52870	0.50818	0.48152	0.45665	0.48246	0.42873					
	0.38772	++++					AVRG		0.46771		10.25591
6 Vinyl chloride	0.50952	0.46079	0.43228	0.40625	0.41055	0.36375					
	0.32494	++++					AVRG		0.41543		14.62877
7 Bromomethane	0.25780	0.23623	0.23278	0.22734	0.24344	0.23277					
	0.22760	++++					AVRG		0.23685		4.53392
8 Chloroethane	0.22734	0.22323	0.21132	0.20164	0.21135	0.20785					
	0.20451	++++					AVRG		0.21246		4.47108
9 Trichlorofluoromethane	0.35996	0.35068	0.30112	0.30563	0.31443	0.30426					
	0.28982	++++					AVRG		0.31799		8.38225
10 Ethyl Ether	0.28008	0.32062	0.28724	0.29016	0.29781	0.29886					
	0.29597	++++					AVRG		0.29582		4.32385
11 Acrolein	0.04418	0.03949	0.04544	0.04756	0.04531	0.05365					
	0.06092	++++					AVRG		0.04808		14.70368
12 Trichlorotrifluoroethane	0.10245	0.09727	0.09404	0.09075	0.07953	0.07034					
	0.07720	++++					AVRG		0.08737		13.51328

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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	200									
	Level 7	Level 8									
13 Acetone	0.37122 0.30889	0.36279 ++++	0.32383	0.32644	0.34124	0.31027	AVRG		0.33491		7.33338
14 1,1-Dichloroethylene	0.23466 0.20998	0.22304 ++++	0.23525	0.21218	0.23855	0.19843	AVRG		0.21744		6.41898
15 Isopropyl Alcohol	0.03379 0.03385	0.02848 ++++	0.03362	0.03382	0.03438	0.02970	AVRG		0.03252		7.32915
16 Iodomethane	0.39608 0.38094	0.36645 ++++	0.40560	0.38566	0.35788	0.35975	AVRG		0.37891		4.84456
17 Acetonitrile	0.06193 0.05095	0.06381 ++++	0.05756	0.05797	0.05730	0.06594	AVRG		0.05935		8.41770
18 Methyl acetate	0.35515 0.27857	0.29749 ++++	0.32852	0.31506	0.29869	0.29447	AVRG		0.30971		8.25337
19 Carbon disulfide	0.89266 0.65599	0.79048 ++++	0.83100	0.78713	0.71568	0.68163	AVRG		0.76494		11.07438
20 Allyl chloride	0.53968 0.39621	0.50526 ++++	0.50958	0.48676	0.45362	0.42965	AVRG		0.47439		10.59305
21 tert-Butyl Alcohol	0.05167 0.04776	0.04139 ++++	0.04764	0.04767	0.05022	0.04265	AVRG		0.04700		7.96307

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
22 Methylene chloride	++++ 0.19549	0.23820 ++++	0.21441 ++++	0.20090 ++++	0.19068 ++++	0.18599 ++++	AVRG		0.20428		9.44493
23 Acrylonitrile	0.13731 0.13157	0.12635 ++++	0.14147 ++++	0.13774 ++++	0.13619 ++++	0.13170 ++++	AVRG		0.13462		3.74591
24 tert-Butyl methyl ether	0.80994 0.78981	0.81750 ++++	0.75450 ++++	0.77254 ++++	0.73118 ++++	0.73829 ++++	AVRG		0.77339		4.39216
25 trans-1,2-Dichloroethylene	0.50384 0.42206	0.46889 ++++	0.48692 ++++	0.46195 ++++	0.45327 ++++	0.42294 ++++	AVRG		0.45970		6.61934
26 Vinyl acetate	0.77450 0.60197	0.85406 ++++	0.75761 ++++	0.81966 ++++	0.81586 ++++	0.69432 ++++	AVRG		0.75971		11.40322
27 Isopropyl ether	++++ 1.18690	1.28662 ++++	1.29461 ++++	1.35198 ++++	1.29488 ++++	1.24203 ++++	AVRG		1.27617		4.38816
28 1,1-Dichloroethane	0.61604 0.58003	0.62372 ++++	0.63881 ++++	0.58962 ++++	0.58167 ++++	0.55743 ++++	AVRG		0.59819		4.80576
29 2-Chloro-1,3-butadiene	0.41421 0.37943	0.42657 ++++	0.42523 ++++	0.41666 ++++	0.39568 ++++	0.39845 ++++	AVRG		0.40803		4.26210
30 Ethyl tert-butyl ether	++++ 0.90285	0.84231 ++++	0.83069 ++++	0.85509 ++++	0.90158 ++++	0.89776 ++++	AVRG		0.87171		3.75724

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
31 2-Butanone	0.38771 0.34266	0.40391 ++++	0.35922	0.36946	0.40769	0.34405	AVRG		0.37353		7.19573
32 Ethyl acetate	0.44278 0.33414	0.41784 ++++	0.45125	0.42632	0.40256	0.35807	AVRG		0.40471		10.77753
33 cis-1,2-Dichloroethylene	0.59471 0.50219	0.54869 ++++	0.55173	0.53357	0.50390	0.47885	AVRG		0.53052		7.33716
34 2,2-Dichloropropane	0.29938 0.25653	0.24188 ++++	0.25597	0.23681	0.21790	0.23089	AVRG		0.24848		10.56617
35 Propionitrile	0.07002 0.05642	0.05258 ++++	0.06457	0.05980	0.05683	0.05325	AVRG		0.05907		10.68190
36 Methacrylonitrile	0.25818 0.21528	0.24456 ++++	0.27034	0.26013	0.24380	0.22478	AVRG		0.24530		8.04738
37 Bromochloromethane	0.40223 0.37692	0.39817 ++++	0.41300	0.40043	0.38909	0.36555	AVRG		0.39220		4.15023
38 Chloroform	0.58519 0.47062	0.49407 ++++	0.49340	0.48912	0.49932	0.45410	AVRG		0.49798		8.35869
39 Tetrahydrofuran	0.47764 0.35812	0.44454 ++++	0.45944	0.42050	0.41053	0.36338	AVRG		0.41916		10.93258

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
41 1,1,1-Trichloroethane	0.33463 0.34747	0.35201 ++++	0.35980	0.33703	0.33680	0.32438	AVRG		0.34173		3.50911
42 Isobutyl alcohol	0.01894 0.01640	0.01694 ++++	0.01962	0.01852	0.01823	0.01675	AVRG		0.01791		6.84459
43 Cyclohexane	0.66684 0.48668	0.57907 ++++	0.60139	0.53233	0.53775	0.48436	AVRG		0.55549		11.78390
44 1,1-Dichloropropene	0.37354 0.33295	0.38678 ++++	0.36871	0.36553	0.35185	0.32521	AVRG		0.35780		6.23018
45 Carbon tetrachloride	0.30369 0.27553	0.24799 ++++	0.29060	0.26048	0.26806	0.25705	AVRG		0.27191		7.21748
47 1,2-Dichloroethane	0.54033 0.47861	0.47238 ++++	0.50508	0.49698	0.49337	0.45253	AVRG		0.49133		5.66795
48 Benzene	1.15482 0.99723	1.06364 1.32285	1.13097	1.06471	1.03320	0.97886	AVRG		1.09329		10.11080
49 Methyl tert-amy1 ether	0.72584 0.56390	0.62391 ++++	0.62516	0.64841	0.70561	0.68979	AVRG		0.66978		6.46614
50 Cyclohexene	0.48987	0.50610 ++++	0.54171	0.51654	0.51454	0.47290	AVRG		0.51508		5.92603

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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	0.01179 0.01388	0.01241 0.01234	0.01216 0.01234	0.01341 0.01341	0.01403 0.01403	0.01399 0.01399	AVRG AVRG		0.01300 0.01300		7.09548
53 Trichloroethylene	0.27430 0.25637	0.26438 ++++	0.27397 0.27397	0.26519 0.26519	0.27618 0.27618	0.24387 0.24387	AVRG AVRG		0.26489 0.26489		4.39586
54 Methyl methacrylate	0.22336 0.20756	0.20671 ++++	0.22931 0.22931	0.22055 0.22055	0.21809 0.21809	0.21228 0.21228	AVRG AVRG		0.21684 0.21684		3.87232
55 Methylcyclohexane	0.49966 0.42078	0.43861 ++++	0.44481 0.44481	0.44006 0.44006	0.43612 0.43612	0.40383 0.40383	AVRG AVRG		0.44055 0.44055		6.73024
56 1,2-Dichloropropane	0.39245 0.33677	0.36897 ++++	0.38177 0.38177	0.37142 0.37142	0.36583 0.36583	0.33120 0.33120	AVRG AVRG		0.36406 0.36406		6.16845
57 1,4-Dioxane	0.00348 0.00359	0.00250 ++++	0.00354 0.00354	0.00334 0.00334	0.00323 0.00323	0.00313 0.00313	AVRG AVRG		0.00326 0.00326		11.42936
58 Dibromomethane	0.19196 0.19944	0.19723 ++++	0.19939 0.19939	0.19727 0.19727	0.19889 0.19889	0.19046 0.19046	AVRG AVRG		0.19638 0.19638		1.86881
59 Bromodichloromethane	0.39732 0.39410	0.36909 ++++	0.39631 0.39631	0.38593 0.38593	0.41432 0.41432	0.37605 0.37605	AVRG AVRG		0.39044 0.39044		3.84034
60 2-Nitropropane	0.13385 0.14680	0.11919 ++++	0.14652 0.14652	0.14531 0.14531	0.14750 0.14750	0.14329 0.14329	AVRG AVRG		0.14035 0.14035		7.43854

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 ale01592

Compound	1	2	5	10	20	50	Curve	b	Coefficients m1	m2	SRSD or R ²
61 2-Chloroethylvinyl ether	Level 1 : 0.13828 0.14819	Level 2 : 0.13131 ++++	Level 3 : 0.13224	Level 4 : 0.14312	Level 5 : 0.14531	Level 6 : 0.15383	AVRG		0.14176		5.85520
62 cis-1,3-Dichloropropylene	0.44683 0.48927	0.46424 ++++	0.48235	0.47289	0.50753	0.46544	AVRG		0.47551		4.13438
63 4-Methyl-2-pentanone	0.24889 0.23121	0.25775 ++++	0.24134	0.24113	0.27708	0.22508	AVRG		0.24607		7.06681
65 Toluene	0.99540 0.84445	0.91525 ++++	0.94675	0.88594	0.89959	0.81410	AVRG		0.90021		6.75427
66 Ethyl methacrylate	0.58277 0.50204	0.54247 ++++	0.62302	0.60387	0.56118	0.57129	AVRG		0.57238		6.98256
67 trans-1,3-Dichloropropylene	0.57975 0.62680	0.56956 ++++	0.63061	0.60000	0.66595	0.59758	AVRG		0.61004		5.45435
68 1,1,2-Trichloroethane	0.34428 0.30944	0.35523 ++++	0.35299	0.34101	0.36031	0.31095	AVRG		0.33917		6.14376
69 2-Hexanone	0.73685 0.50687	0.78422 ++++	0.70044	0.68470	0.76383	0.58953	AVRG		0.68092		14.65403
70 1,3-Dichloropropane	0.69293 0.63986	0.71194 ++++	0.70218	0.70482	0.75363	0.66338	AVRG		0.69553		5.22166

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
	100	200									
	Level 7	Level 8									
71 Tetrachloroethylene	0.28354 0.24094	0.25342 ++++	0.26414	0.23364	0.24287	0.22289	AVRG		0.24878		8.14204
72 Dibromochloromethane	0.33269 0.39353	0.34579 ++++	0.36231	0.35639	0.40520	0.36488	AVRG		0.36583		6.98702
73 1,2-Dibromoethane	0.36328 0.37253	0.35222 ++++	0.36077	0.36799	0.40005	0.35812	AVRG		0.36785		4.25309
74 1-Chlorohexane	0.34706 0.30890	0.30121 ++++	0.31913	0.33191	0.32325	0.30402	AVRG		0.31936		5.13508
76 Chlorobenzene	1.01098 0.86362	0.95127 ++++	0.95000	0.91236	0.96965	0.82857	AVRG		0.92664		6.81260
77 1,1,1,2-Tetrachloroethane	0.30146 0.35239	0.31109 ++++	0.30197	0.30384	0.34945	0.31502	AVRG		0.31932		6.94131
78 Ethylbenzene	1.85154 1.43524	1.82479 ++++	1.76134	1.68668	1.76608	1.44831	AVRG		1.68200		10.24073
79 m,p-Xylenes	0.62114 0.60453	0.67062 ++++	0.65895	0.62920	0.66820	0.57827	AVRG		0.63299		5.50638
80 o-Xylene	0.64264 0.67170	0.67305 ++++	0.68788	0.66680	0.71782	0.63403	AVRG		0.67056		4.16006

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
81 Styrene	1.03480 1.04761	1.05435 ++++	1.09579	1.08161	1.17767	1.02490	AVRG		1.07382		4.85533
82 Bromoform	0.44800 0.51866	0.46729 ++++	0.45445	0.44703	0.54809	0.46992	AVRG		0.47906		8.15291
83 Isopropylbenzene	3.49497 2.64705	3.66615 ++++	3.43580	3.19632	3.44542	2.75679	AVRG		3.23464		12.06581
84 cis-1,4-Dichloro-2-butene	0.38069 0.39623	0.31673 ++++	0.41215	0.40845	0.41138	0.39737	AVRG		0.38900		8.67306
85 Cyclohexanone	0.03195 ++++	0.02350 ++++	0.02895	0.02863	0.02827	++++	AVRG		0.02826		10.75061
87 1,1,2,2-Tetrachloroethane	1.19265 0.98082	1.21572 ++++	1.15731	1.10829	1.25926	1.00651	AVRG		1.13151		9.31719
88 trans-1,4-Dichloro-2-butene	0.31891 0.36821	0.31312 ++++	0.36778	0.36391	0.36234	0.36318	AVRG		0.35107		6.86595
89 1,2,3-Trichloropropane	0.28647 0.23411	0.24666 ++++	0.22625	0.24828	0.25953	0.22210	AVRG		0.24620		8.97349
90 Bromobenzene	0.76034 0.73175	0.78745 ++++	0.77871	0.75408	0.80267	0.68660	AVRG		0.75737		5.14118

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
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 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
91 n-Propylbenzene	4.68347 3.27290	4.56352 ++++	4.37500	4.07800	4.36558	3.44795	AVRG		4.11235		13.35638
92 1,3,5-Trimethylbenzene	2.81587 2.37547	2.87105 ++++	2.68849	2.60394	2.92918	2.42595	AVRG		2.67285		8.07975
93 2-Chlorotoluene	3.05461 2.42881	3.13194 ++++	2.82160	2.73305	3.05604	2.48242	AVRG		2.81550		10.07173
94 4-Chlorotoluene	2.83303 2.18348	2.73655 ++++	2.57278	2.45072	2.69458	2.22008	AVRG		2.52732		10.03292
95 tert-Butylbenzene	2.54254 2.18802	2.53348 ++++	2.52529	2.35277	2.63624	2.17076	AVRG		2.42130		7.65601
96 1,2,4-Trimethylbenzene	2.83048 2.43799	2.81952 ++++	2.78705	2.63535	2.97059	2.45445	AVRG		2.70506		7.47088
97 Pentachloroethane	0.26106 0.27493	0.28448 ++++	0.29783	0.29968	0.26523	0.29207	AVRG		0.28176		5.48711
98 sec-Butylbenzene	3.89578 2.97444	3.94634 ++++	3.68073	3.52735	3.87381	3.06099	AVRG		3.56563		11.26370
99 4-Isopropyltoluene	2.79221 2.29722	2.68596 ++++	2.60196	2.47043	2.87417	2.31964	AVRG		2.57723		8.71312

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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	MSD or R^2
100 1,3-Dichlorobenzene	1.69373 1.32887	1.54028 ++++	1.50003	1.42658	1.57954	1.28805	AVRG		1.47958		9.64386
102 1,4-Dichlorobenzene	1.53770 1.34055	1.53666 ++++	1.49633	1.39235	1.50686	1.30262	AVRG		1.44472		6.77070
103 Benzyl chloride	1.17587 1.21970	1.11939 ++++	1.30663	1.30678	1.28136	1.26359	AVRG		1.23904		5.72889
104 n-Butylbenzene	3.34819 2.50844	3.21649 ++++	3.03466	2.89314	3.29392	2.61464	AVRG		2.98564		11.02434
105 1,2-Dichlorobenzene	1.50083 1.36521	1.58906 ++++	1.51728	1.49969	1.60799	1.32336	AVRG		1.48620		7.15929
106 bis(2-Chloroisopropyl)ether	0.83007 0.64789	0.63325 ++++	0.75441	0.70073	0.68867	0.64153	AVRG		0.69951		10.20844
107 1,2-Dibromo-3-chloropropane	584 176713	2275 ++++	5481	11354	29844	73362	LINR	0.02102	0.19109		0.99838
108 1,2,4-Trichlorobenzene	1.00820 0.86464	0.98539 ++++	0.92239	0.88204	1.01161	0.84337	AVRG		0.93109		7.59068
109 Hexachlorobutadiene	0.50497 0.45720	0.57866 ++++	0.51670	0.47693	0.53727	0.42764	AVRG		0.49991		10.16033

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
 End Cal Date : 18-FEB-2010 00:42
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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
 Cal Date : 06-Mar-2010 17:12 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
110 Naphthalene	2.39039 2.29053	2.32801 ++++	2.24690	2.18867	2.68812	2.25278	AVRG		2.33792		6.80664
111 1,2,3-Trichlorobenzene	0.99358 0.80769	0.85784 ++++	0.84533	0.78975	0.93501	0.79611	AVRG		0.86076		8.92879
46 1,2-Dichloroethane-d4	0.42538 0.43397	0.44520 ++++	0.42789	0.43782	0.42368	0.42998	AVRG		0.43199		1.75777
64 Toluene-d8	1.62293 1.55870	1.66865 ++++	1.68737	1.64500	1.61861	1.59016	AVRG		1.62735		2.72640
86 Bromofluorobenzene	1.29606 1.27105	1.36624 ++++	1.35275	1.32744	1.29510	1.29800	AVRG		1.31523		2.62999

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2010 16:02
End Cal Date : 18-FEB-2010 00:42
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Cal Date : 06-Mar-2010 17:12 ale01592

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

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-22 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
IM 2 Xylenes (total)	0.64551	0.62451	0.62451	0.050	-3.25377	30.00000	Averaged
IM 3 1,2-Dichloroethylene (total)	0.49511	0.45815	0.45815	0.050	-7.46472	30.00000	Averaged
IM 1 1,3-Dichloropropylene	0.45215	0.46016	0.46016	0.050	1.77148	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.13873	0.13873	0.050	-10.89039	30.00000	Averaged
5 Chloromethane	0.46771	0.40064	0.40064	0.100	-14.34049	30.00000	Averaged|spcc
6 Vinyl chloride	0.41543	0.34912	0.34912	0.050	-15.96116	20.00000	Averaged|ccc
7 Bromomethane	0.23685	0.22892	0.22892	0.050	-3.35016	30.00000	Averaged
8 Chloroethane	0.21246	0.20582	0.20582	0.010	-3.12447	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.29248	0.29248	0.050	-8.02212	30.00000	Averaged
10 Ethyl Ether	0.29582	0.29735	0.29735	0.001	0.51656	30.00000	Averaged
13 Acetone	0.33491	0.29721	0.29721	0.050	-11.25680	40.00000	Averaged
17 Acetonitrile	0.05935	0.07072	0.07072	0.010	19.15195	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.19489	0.19489	0.050	-10.37135	20.00000	Averaged|ccc
18 Methyl acetate	0.30971	0.30162	0.30162	0.010	-2.61040	40.00000	Averaged
16 Iodomethane	0.37891	0.36309	0.36309	0.050	-4.17398	30.00000	Averaged
22 Methylene chloride	0.20428	0.19326	0.19326	0.050	-5.39206	30.00000	Averaged
19 Carbon disulfide	0.76494	0.70918	0.70918	0.050	-7.28904	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.77741	0.77741	0.050	0.51971	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.42331	0.42331	0.050	-7.91447	30.00000	Averaged
26 Vinyl acetate	0.75971	0.65453	0.65453	0.010	-13.84562	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.58345	0.58345	0.100	-2.46329	30.00000	Averaged|spcc
31 2-Butanone	0.37353	0.32999	0.32999	0.030	-11.65784	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.49299	0.49299	0.050	-7.07501	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.22525	0.22525	0.050	-9.35079	30.00000	Averaged
38 Chloroform	0.49798	0.47145	0.47145	0.010	-5.32731	20.00000	Averaged|ccc
37 Bromochloromethane	0.39220	0.37710	0.37710	0.010	-3.84914	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.33281	0.33281	0.010	-2.61185	30.00000	Averaged
43 Cyclohexane	0.55549	0.48819	0.48819	0.010	-12.11548	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.33377	0.33377	0.010	-6.71432	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01560	0.01560	0.001	20.00901	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.26041	0.26041	0.010	-4.22921	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.41602	0.41602	0.010	-3.69539	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.47654	0.47654	0.010	-3.00919	30.00000	Averaged
48 Benzene	1.09329	1.01770	1.01770	0.010	-6.91346	30.00000	Averaged
50 Cyclohexene	0.51508	0.47503	0.47503	0.010	-7.77517	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-22 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.25884	0.25884	0.010	-2.28485	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.34276	0.34276	0.010	-5.85033	20.00000	Averaged|ccc
55 Methylcyclohexane	0.44055	0.40776	0.40776	0.010	-7.44328	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.39204	0.39204	0.010	0.40888	30.00000	Averaged
58 Dibromomethane	0.19638	0.19614	0.19614	0.010	-0.12043	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.13312	0.13312	0.010	-6.08895	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.23847	0.23847	0.010	-3.08660	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.47478	0.47478	0.010	-0.15161	30.00000	Averaged
64 Toluene-d8	1.62735	1.59462	1.59462	0.010	-2.01081	30.00000	Averaged
65 Toluene	0.90021	0.86882	0.86882	0.010	-3.48730	20.00000	Averaged|ccc
67 trans-1,3-Dichloropropylene	0.61004	0.62998	0.62998	0.010	3.26982	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.33086	0.33086	0.010	-2.45158	30.00000	Averaged
69 2-Hexanone	0.68092	0.56308	0.56308	0.010	-17.30573	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.70217	0.70217	0.010	0.95395	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.23181	0.23181	0.010	-6.82091	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.38883	0.38883	0.010	6.28730	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.38653	0.38653	0.010	5.07802	30.00000	Averaged
76 Chlorobenzene	0.92664	0.90044	0.90044	0.300	-2.82685	30.00000	Averaged|spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.33458	0.33458	0.010	4.77841	30.00000	Averaged
78 Ethylbenzene	1.68200	1.51733	1.51733	0.010	-9.78969	20.00000	Averaged|ccc
79 m,p-Xylenes	0.63299	0.60842	0.60842	0.010	-3.88083	30.00000	Averaged
80 o-Xylene	0.67056	0.65668	0.65668	0.010	-2.06991	30.00000	Averaged
81 Styrene	1.07382	1.07422	1.07422	0.010	0.03737	30.00000	Averaged
82 Bromoform	0.47906	0.50547	0.50547	0.100	5.51185	30.00000	Averaged|spcc
83 Isopropylbenzene	3.23464	2.86304	2.86304	0.010	-11.48816	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	1.04885	1.04885	0.300	-7.30521	30.00000	Averaged|spcc
86 Bromofluorobenzene	1.31523	1.28244	1.28244	0.010	-2.49352	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.24376	0.24376	0.010	-0.99197	30.00000	Averaged
90 Bromobenzene	0.75737	0.73368	0.73368	0.010	-3.12821	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.55350	3.55350	0.010	-13.58941	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.61345	2.61345	0.010	-7.17611	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.53769	2.53769	0.010	-5.05667	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.34633	2.34633	0.010	-7.16112	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.26973	2.26973	0.010	-6.25993	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.55659	2.55659	0.010	-5.48856	30.00000	Averaged
98 sec-Butylbenzene	3.56563	3.18076	3.18076	0.010	-10.79408	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 02:27
 Lab File ID: 7z328.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 16:02 00:42
 Lab Sample ID: W7VM100217-22 Quant Type: ISTD
 Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.40283	2.40283	0.010	-6.76672	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.37420	1.37420	0.010	-7.12232	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.35364	1.35364	0.010	-6.30431	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.67527	2.67527	0.010	-10.39534	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.41959	1.41959	0.010	-4.48214	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	53.98003	50.00000	0.20228	0.010	7.96006	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.87331	0.87331	0.010	-6.20563	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.45648	0.45648	0.010	-8.68867	30.00000	Averaged
110 Naphthalene	2.33792	2.47041	2.47041	0.010	5.66713	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.87276	0.87276	0.010	1.39435	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 7.69699
 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/021710v7/7z328.d

Lab Smp Id: W7VM100217-22

Client Smp ID: ICV

Inj Date : 18-FEB-2010 02:27

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100217-22|ICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100126-01E/IVM100214-01

Comment :

Method : /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Meth Date : 18-Feb-2010 06:55 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 21

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubL+.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

		QUANT SIG				AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
M 2 Xylenes (total)	106				1553189	150.000	145
M 3 1,2-Dichloroethylene (total)	96				1074106	100.000	92.5
M 1 1,3-Dichloropropylene	75				1078824	100.000	102
4 Dichlorodifluoromethane	85	5.147	5.147	(0.336)	162626	50.0000	44.6
5 Chloromethane	50	5.757	5.757	(0.376)	469635	50.0000	42.8
6 Vinyl chloride	62	6.187	6.187	(0.404)	409246	50.0000	42.0
7 Bromomethane	94	7.418	7.418	(0.484)	268342	50.0000	48.3
8 Chloroethane	64	7.845	7.845	(0.512)	241269	50.0000	48.4
9 Trichlorofluoromethane	101	8.789	8.789	(0.574)	342848	50.0000	46.0
10 Ethyl Ether	59	9.703	9.692	(0.633)	348559	50.0000	50.2
13 Acetone	43	10.413	10.413	(0.680)	1741994	250.000	222
17 Acetonitrile	41	11.073	11.073	(0.723)	1657956	1000.00	1190
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	228453	50.0000	44.8
18 Methyl acetate	43	11.215	11.215	(0.732)	1767842	250.000	243
16 Iodomethane	142	10.667	10.667	(0.696)	2128132	250.000	240
22 Methylene chloride	86	11.439	11.439	(0.747)	226549	50.0000	47.3

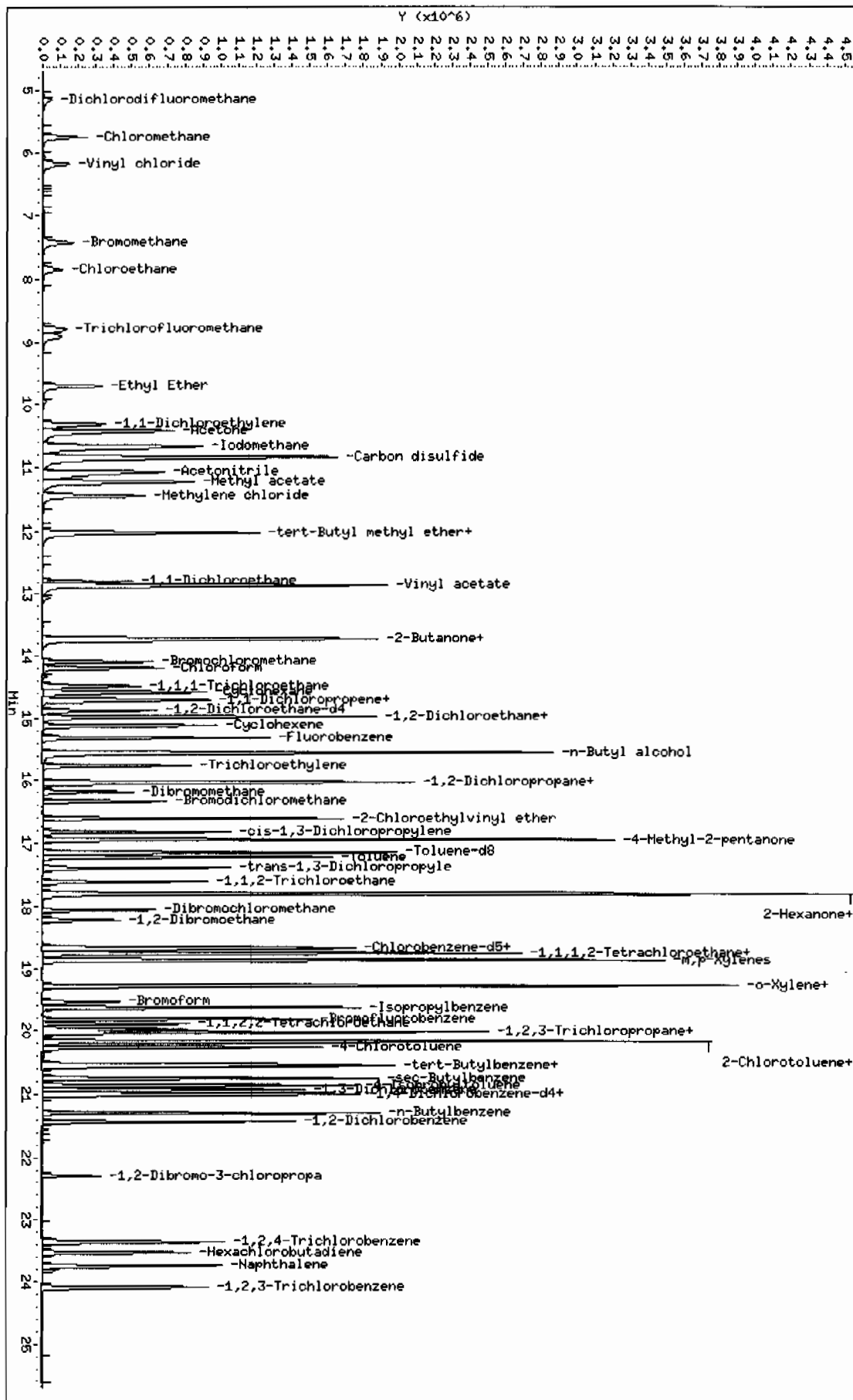
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ug/l)	(ug/l)
19 Carbon disulfide		76	10.840	10.840	(0.708)	4156596	250.000	232
24 tert-Butyl methyl ether		73	12.017	12.017	(0.785)	911300	50.0000	50.2
25 trans-1,2-Dichloroethylene		61	12.027	12.017	(0.785)	496217	50.0000	46.0
26 Vinyl acetate		43	12.860	12.860	(0.840)	3836252	250.000	215
28 1,1-Dichloroethane		63	12.799	12.789	(0.836)	683938	50.0000	48.8
31 2-Butanone		43	13.723	13.723	(0.896)	1934081	250.000	221
33 cis-1,2-Dichloroethylene		61	13.733	13.733	(0.897)	577889	50.0000	46.5
34 2,2-Dichloropropane		77	13.743	13.743	(0.897)	264039	50.0000	45.3
38 Chloroform		83	14.190	14.190	(0.926)	552641	50.0000	47.3
37 Bromochloromethane		49	14.088	14.088	(0.920)	442048	50.0000	48.1
41 1,1,1-Trichloroethane		97	14.484	14.484	(0.946)	390122	50.0000	48.7
43 Cyclohexane		56	14.586	14.586	(0.952)	572266	50.0000	43.9
44 1,1-Dichloropropene		75	14.697	14.697	(0.960)	391255	50.0000	46.6
52 n-Butyl alcohol		56	15.560	15.560	(1.016)	1829150	5000.00	6000
45 Carbon tetrachloride		117	14.718	14.718	(0.961)	305263	50.0000	47.9
\$ 46 1,2-Dichloroethane-d4		65	14.880	14.880	(0.971)	487674	50.0000	48.2
47 1,2-Dichloroethane		62	14.982	14.982	(0.978)	558613	50.0000	48.5
48 Benzene		78	14.982	14.982	(0.978)	1192975	50.0000	46.5
50 Cyclohexene		67	15.114	15.114	(0.987)	556844	50.0000	46.1
* 51 Fluorobenzene		96	15.317	15.317	(1.000)	1172223	50.0000	
53 Trichloroethylene		95	15.763	15.763	(1.029)	303421	50.0000	48.8
56 1,2-Dichloropropane		63	16.037	16.037	(1.047)	401792	50.0000	47.1
55 Methylcyclohexane		83	16.027	16.027	(1.046)	477986	50.0000	46.3
59 Bromodichloromethane		83	16.332	16.332	(1.066)	459560	50.0000	50.2
58 Dibromomethane		93	16.179	16.179	(1.056)	229919	50.0000	49.9
61 2-Chloroethylvinyl ether		63	16.606	16.606	(1.084)	780259	250.000	235
63 4-Methyl-2-pentanone		58	16.941	16.941	(0.908)	988490	250.000	242
62 cis-1,3-Dichloropropylene		75	16.819	16.819	(1.098)	556553	50.0000	49.9
\$ 64 Toluene-d8		98	17.134	17.134	(0.918)	1321978	50.0000	49.0
65 Toluene		92	17.215	17.215	(0.922)	720271	50.0000	48.2
67 trans-1,3-Dichloropropylene		75	17.388	17.388	(0.931)	522271	50.0000	51.6
68 1,1,2-Trichloroethane		83	17.611	17.611	(0.943)	274288	50.0000	48.8
69 2-Hexanone		43	17.804	17.794	(0.954)	2334037	250.000	207
70 1,3-Dichloropropane		76	17.794	17.794	(0.953)	582114	50.0000	50.5
71 Tetrachloroethylene		164	17.814	17.814	(0.954)	192175	50.0000	46.6
72 Dibromochloromethane		129	18.058	18.058	(0.967)	322348	50.0000	53.1
73 1,2-Dibromoethane		107	18.220	18.220	(0.976)	320442	50.0000	52.5
* 75 Chlorobenzene-d5		117	18.667	18.667	(1.000)	829022	50.0000	
76 Chlorobenzene		112	18.697	18.697	(1.002)	746485	50.0000	48.6
77 1,1,1,2-Tetrachloroethane		131	18.758	18.758	(1.005)	277371	50.0000	52.4
78 Ethylbenzene		91	18.768	18.758	(1.005)	1257903	50.0000	45.1
79 m,p-Xylenes		106	18.870	18.870	(1.011)	1008788	100.000	96.1
80 o-Xylene		106	19.286	19.286	(1.033)	544401	50.0000	49.0
81 Styrene		104	19.286	19.286	(1.033)	890551	50.0000	50.0
82 Bromoform		173	19.540	19.540	(0.931)	209984	50.0000	52.8
83 Isopropylbenzene		105	19.631	19.631	(0.935)	1189382	50.0000	44.2
87 1,1,2,2-Tetrachloroethane		83	19.885	19.885	(0.947)	435719	50.0000	46.3

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	==	=====	=====	=====	=====	=====
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	532758	50.0000	48.8
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	101263	50.0000	49.5
90 Bromobenzene	156	20.017	20.017	(0.954)	304789	50.0000	48.4
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1476217	50.0000	43.2
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	1085697	50.0000	46.4
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	1054223	50.0000	47.5
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	974728	50.0000	46.4
95 tert-Butylbenzene	119	20.535	20.524	(0.978)	942904	50.0000	46.9
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	1062075	50.0000	47.2
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1321369	50.0000	44.6
99 4-Isopropyltoluene	119	20.859	20.859	(0.994)	998200	50.0000	46.6
100 1,3-Dichlorobenzene	146	20.931	20.930	(0.997)	570879	50.0000	46.4
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	415426	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	562339	50.0000	46.8
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1111378	50.0000	44.8
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	589734	50.0000	47.8
107 1,2-Dibromo-3-chloropropane	157	22.301	22.291	(1.062)	84034	50.0000	54.0
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	362796	50.0000	46.9
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	189632	50.0000	45.6
110 Naphthalene	128	23.743	23.743	(1.131)	1026272	50.0000	52.8
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	362567	50.0000	50.7

Data File: /chem/VOA7.1/021710v7/7z328.d
 Date: 18-FEB-2010 02:27
 Client ID: ICV
 Sample Info: IM7M400217-221ICV111VOAF111
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: VOA7.1
 Operator: RXD1
 Column diameter: 0.25

/chem/VOA7.1/021710v7/7z328.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 03:03
Lab File ID: 7z329.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-23 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.10627	0.08440	0.08440	0.010	-20.57911	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.21104	0.19071	0.19071	0.010	-9.63206	30.00000	Averaged
11 Acrolein	0.04808	0.06342	0.06342	0.001	31.90544	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.09264	0.09264	0.010	6.03207	30.00000	Averaged
15 Isopropyl Alcohol	0.03252	0.03340	0.03340	0.010	2.69600	40.00000	Averaged
20 Allyl chloride	0.47439	0.45060	0.45060	0.010	-5.01522	30.00000	Averaged
21 tert-Butyl Alcohol	0.04700	0.04729	0.04729	0.001	0.60763	40.00000	Averaged
23 Acrylonitrile	0.13462	0.13550	0.13550	0.010	0.65548	30.00000	Averaged
27 Isopropyl ether	1.27617	1.16451	1.16451	0.010	-8.74982	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.40855	0.40855	0.010	0.12766	30.00000	Averaged
30 Ethyl tert-butyl ether	0.87171	0.84896	0.84896	0.010	-2.60957	30.00000	Averaged
35 Propionitrile	0.05907	0.05400	0.05400	0.010	-8.58473	30.00000	Averaged
32 Ethyl acetate	0.40471	0.34558	0.34558	0.010	-14.60985	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.22257	0.22257	0.010	-9.26511	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.38326	0.38326	0.010	-8.56559	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01700	0.01700	0.005	-5.09066	40.00000	Averaged
49 Methyl tert-amyl ether	0.66978	0.66370	0.66370	0.010	-0.90825	30.00000	Averaged
54 Methyl methacrylate	0.21684	0.20990	0.20990	0.010	-3.19904	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.56268	0.56268	0.010	-1.69472	30.00000	Averaged
74 1-Chlorohexane	0.31936	0.29112	0.29112	0.010	-8.83992	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00349	0.00349	0.001	7.06816	40.00000	Averaged
60 2-Nitropropane	0.14035	0.14903	0.14903	0.010	6.18586	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.41782	0.41782	0.010	7.40931	30.00000	Averaged
85 Cyclohexanone	0.02826	0.03489	0.03489	0.010	23.43653	40.00000	Averaged
88 trans-1,4-Dichloro-2-butene	0.35107	0.38019	0.38019	0.010	8.29533	30.00000	Averaged
97 Pentachloroethane	0.28176	0.23364	0.23364	0.010	-17.07604	30.00000	Averaged
103 Benzyl chloride	1.23904	1.13837	1.13837	0.010	-8.12535	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.66981	0.66981	0.010	-4.24580	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.41798	0.41798	0.010	-3.24324	30.00000	Averaged
64 Toluene-d8	1.62735	1.64351	1.64351	0.010	0.99350	30.00000	Averaged
86 Bromofluorobenzene	1.31523	1.27368	1.27368	0.010	-3.15966	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 18-FEB-2010 03:03
Lab File ID: 7z329.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100217-23 Quant Type: ISTD
Method: /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Average %D / Drift Results.	

Calculated Average %D/Drift *	7.69699
Maximun 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/021710v7/7z329.d

Lab Smp Id: W7VM100217-23

Client Smp ID: SICV

Inj Date : 18-FEB-2010 03:03

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100217-23|SICV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM091216-08B/UVM100125-08C

Comment :

Method : /chem/VOA7.i/021710v7/VOA7-8260B-021710.m

Meth Date : 18-Feb-2010 06:55 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 22

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

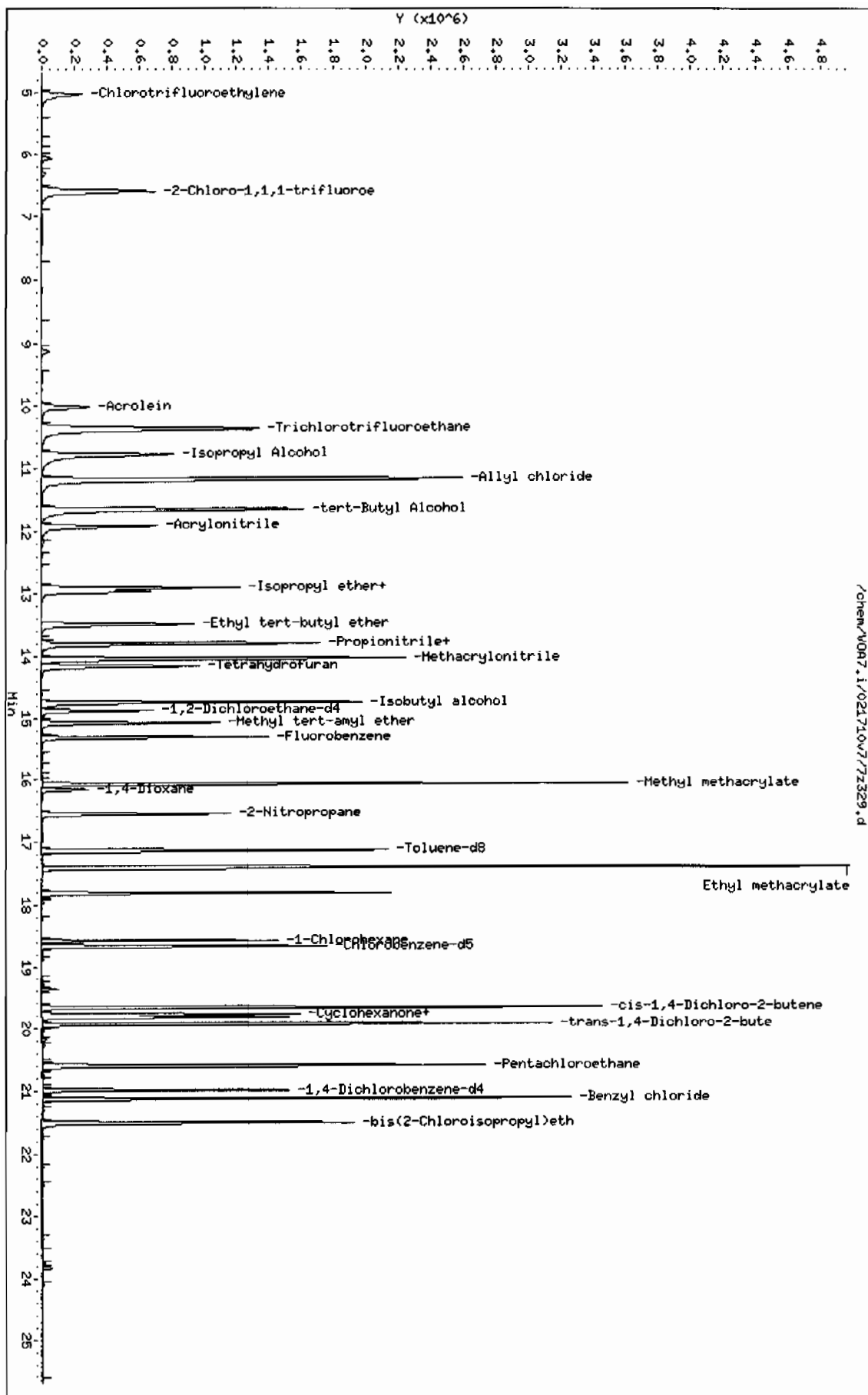
Local Compound Variable

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)	321831	150.000	119
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	727177	150.000	136
11 Acrolein	56	10.017	10.017	(0.654)	403023	250.000	330
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	588697	250.000	265
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	2122372	2500.00	2570
20 Allyl chloride	41	11.185	11.185	(0.730)	2863564	250.000	237
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	3005064	2500.00	2520
23 Acrylonitrile	53	11.926	11.926	(0.779)	861102	250.000	252
27 Isopropyl ether	45	12.901	12.901	(0.842)	1480087	50.0000	45.6
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	519270	50.0000	50.1
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	1079030	50.0000	48.7
35 Propionitrile	54	13.804	13.804	(0.901)	343144	250.000	228
32 Ethyl acetate	43	13.804	13.804	(0.901)	2196159	250.000	213
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1414418	250.000	227
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	797978	250.000	228
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	1080518	2500.00	2370

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====	=====
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)		843562	50.0000	49.5
54 Methyl methacrylate	69	16.078	16.078	(1.050)		1333906	250.000	242
66 Ethyl methacrylate	69	17.408	17.408	(0.933)		2383055	250.000	246
74 1-Chlorohexane	55	18.575	18.575	(1.213)		370019	50.0000	45.6
57 1,4-Dioxane	88	16.159	16.159	(1.055)		221750	2500.00	2680
60 2-Nitropropane	43	16.555	16.555	(1.081)		947088	250.000	265
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)		869937	250.000	268
85 Cyclohexanone	55	19.773	19.773	(1.059)		738736	1250.00	1540
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)		791580	250.000	271
97 Pentachloroethane	167	20.596	20.596	(0.981)		486462	250.000	207
103 Benzyl chloride	91	21.124	21.124	(1.006)		2370168	250.000	230
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)		1394590	250.000	239
* 51 Fluorobenzene	96	15.317	15.317	(1.000)		1270997	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)		847043	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)		416415	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)		531249	50.0000	48.4
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)		1392127	50.0000	50.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)		530378	50.0000	48.4

Data File: /chem/V0A7.i/021710v7/7z329.d
 Date: 18-FEB-2010 03:03
 Client ID: SICV
 Sample Info: MWVH100217-231SICV11V0AF11
 Purge Volume: 5.0
 Column Phase: DB-624

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



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 06-MAR-2010 12:41
Lab File ID: 7b602.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-01 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 Xylenes (total)	0.64551	0.65837	0.65837	0.050	1.99297	30.00000	Averaged
M 3 1,2-Dichloroethylene (total)	0.49511	0.44197	0.44197	0.050	-10.73180	30.00000	Averaged
M 1 1,3-Dichloropropylene	0.45215	0.43529	0.43529	0.050	-3.73019	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.15002	0.15002	0.050	-3.64323	30.00000	Averaged
5 Chloromethane	0.46771	0.41194	0.41194	0.100	-11.92425	30.00000	Averaged|spcc
6 Vinyl chloride	0.41543	0.41309	0.41309	0.050	-0.56267	20.00000	Averaged|ccc
7 Bromomethane	0.23685	0.22355	0.22355	0.050	-5.61670	30.00000	Averaged
8 Chloroethane	0.21246	0.21643	0.21643	0.010	1.86730	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.31126	0.31126	0.050	-2.11484	30.00000	Averaged
10 Ethyl Ether	0.29582	0.26549	0.26549	0.001	-10.25324	30.00000	Averaged
13 Acetone	0.33491	0.28979	0.28979	0.050	-13.47322	40.00000	Averaged
17 Acetonitrile	0.05935	0.06289	0.06289	0.010	5.96023	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.20416	0.20416	0.050	-6.10801	20.00000	Averaged|ccc
18 Methyl acetate	0.30971	0.27720	0.27720	0.010	-10.49579	40.00000	Averaged
16 Iodomethane	0.37891	0.35136	0.35136	0.050	-7.26961	30.00000	Averaged
22 Methylene chloride	0.20428	0.17291	0.17291	0.050	-15.35370	30.00000	Averaged
19 Carbon disulfide	0.76494	0.67462	0.67462	0.050	-11.80760	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.67540	0.67540	0.050	-12.67009	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.41511	0.41511	0.050	-9.69804	30.00000	Averaged
26 Vinyl acetate	0.75971	0.66570	0.66570	0.010	-12.37423	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.54719	0.54719	0.100	-8.52597	30.00000	Averaged|spcc
31 2-Butanone	0.37353	0.34938	0.34938	0.030	-6.46447	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.46883	0.46883	0.050	-11.62756	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.24865	0.24865	0.050	0.06746	30.00000	Averaged
38 Chloroform	0.49798	0.42159	0.42159	0.010	-15.33946	20.00000	Averaged|ccc
37 Bromochloromethane	0.39220	0.34628	0.34628	0.010	-11.70904	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.32123	0.32123	0.010	-5.99966	30.00000	Averaged
43 Cyclohexane	0.55549	0.53164	0.53164	0.010	-4.29389	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.32964	0.32964	0.010	-7.86966	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01391	0.01391	0.001	7.00280	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.24991	0.24991	0.010	-8.09375	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.36038	0.36038	0.010	-16.57568	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.38921	0.38921	0.010	-20.78359	30.00000	Averaged
48 Benzene	1.09329	0.99019	0.99019	0.010	-9.43001	30.00000	Averaged
50 Cyclohexene	0.51508	0.50397	0.50397	0.010	-2.15691	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 06-MAR-2010 12:41
Lab File ID: 7b602.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-01 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL	MIN	MAX	CURVE TYPE
RRF	%D	%DRIFT	%D	%DRIFT		
53 Trichloroethylene	0.26489	0.25092	0.25092|0.010|	-5.27618|	30.00000|	Averaged|
56 1,2-Dichloropropane	0.36406	0.33507	0.33507|0.010|	-7.96392|	20.00000|	Averaged|ccc
55 Methylcyclohexane	0.44055	0.45199	0.45199|0.010|	2.59623|	30.00000|	Averaged|
59 Bromodichloromethane	0.39044	0.34768	0.34768|0.010|	-10.95307|	30.00000|	Averaged|
58 Dibromomethane	0.19638	0.17582	0.17582|0.010|	-10.46611|	30.00000|	Averaged|
61 2-Chloroethylvinyl ether	0.14176	0.14275	0.14275|0.010|	0.69794|	30.00000|	Averaged|
63 4-Methyl-2-pentanone	0.24607	0.23350	0.23350|0.010|	-5.10621|	40.00000|	Averaged|
62 cis-1,3-Dichloropropylene	0.47551	0.45452	0.45452|0.010|	-4.41234|	30.00000|	Averaged|
64 Toluene-d8	1.62735	1.51316	1.51316|0.010|	-7.01654|	30.00000|	Averaged|
65 Toluene	0.90021	0.85438	0.85438|0.010|	-5.09172|	20.00000|	Averaged|ccc
67 trans-1,3-Dichloropropylene	0.61004	0.57311	0.57311|0.010|	-6.05249|	30.00000|	Averaged|
68 1,1,2-Trichloroethane	0.33917	0.30965	0.30965|0.010|	-8.70479|	30.00000|	Averaged|
69 2-Hexanone	0.68092	0.61056	0.61056|0.010|	-10.33304|	40.00000|	Averaged|
70 1,3-Dichloropropane	0.69553	0.64741	0.64741|0.010|	-6.91866|	30.00000|	Averaged|
71 Tetrachloroethylene	0.24878	0.24718	0.24718|0.010|	-0.64314|	30.00000|	Averaged|
72 Dibromochloromethane	0.36583	0.35228	0.35228|0.010|	-3.70225|	30.00000|	Averaged|
73 1,2-Dibromochloroethane	0.36785	0.35005	0.35005|0.010|	-4.83898|	30.00000|	Averaged|
76 Chlorobenzene	0.92664	0.88024	0.88024|0.300|	-5.00730|	30.00000|	Averaged|spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.31944	0.31944|0.010|	0.03759|	30.00000|	Averaged|
78 Ethylbenzene	1.68200	1.56652	1.56652|0.010|	-6.86566|	20.00000|	Averaged|ccc
79 m,p-Xylenes	0.63299	0.64351	0.64351|0.010|	1.66296|	30.00000|	Averaged|
80 o-Xylene	0.67056	0.68810	0.68810|0.010|	2.61601|	30.00000|	Averaged|
81 Styrene	1.07382	1.09921	1.09921|0.010|	2.36510|	30.00000|	Averaged|
82 Bromoform	0.47906	0.50051	0.50051|0.100|	4.47814|	30.00000|	Averaged|spcc
83 Isopropylbenzene	3.23464	3.13296	3.13296|0.010|	-3.14351|	30.00000|	Averaged|
87 1,1,2,2-Tetrachloroethane	1.13151	1.06509	1.06509|0.300|	-5.86941|	30.00000|	Averaged|spcc
86 Bromofluorobenzene	1.31523	1.19556	1.19556|0.010|	-9.09937|	30.00000|	Averaged|
89 1,2,3-Trichloropropane	0.24620	0.22914	0.22914|0.010|	-6.92777|	30.00000|	Averaged|
90 Bromobenzene	0.75737	0.75286	0.75286|0.010|	-0.59528|	30.00000|	Averaged|
91 n-Propylbenzene	4.11235	3.95679	3.95679|0.010|	-3.78271|	30.00000|	Averaged|
93 2-Chlorotoluene	2.81550	2.71158	2.71158|0.010|	-3.69093|	30.00000|	Averaged|
92 1,3,5-Trimethylbenzene	2.67285	2.77097	2.77097|0.010|	3.67086|	30.00000|	Averaged|
94 4-Chlorotoluene	2.52732	2.36895	2.36895|0.010|	-6.26631|	30.00000|	Averaged|
95 tert-Butylbenzene	2.42130	2.54364	2.54364|0.010|	5.05287|	30.00000|	Averaged|
96 1,2,4-Trimethylbenzene	2.70506	2.70205	2.70205|0.010|	-0.11143|	30.00000|	Averaged|
98 sec-Butylbenzene	3.56563	3.69796	3.69796 0.010	3.71122	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 06-MAR-2010 12:41
Lab File ID: 7b602.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-01 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL	MIN	MAX		
			RRF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.78750	2.78750	0.010	8.15873	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.48236	1.48236	0.010	0.18799	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.47772	1.47772	0.010	2.28420	30.00000	Averaged
104 n-Butylbenzene	2.98564	3.16046	3.16046	0.010	5.85536	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.50150	1.50150	0.010	1.02904	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	52.80720	50.00000	0.19780	0.010	5.61439	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	1.01268	1.01268	0.010	8.76248	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.55317	0.55317	0.010	10.65374	30.00000	Averaged
110 Naphthalene	2.33792	2.39138	2.39138	0.010	2.28704	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.88605	0.88605	0.010	2.93799	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.38379
Maximun 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/030610v7/7b602.d
Lab Smp Id: W7VM100306-01 Client Smp ID: VSTD050
Inj Date : 06-MAR-2010 12:41
Operator : AX01 Inst ID: VOA7.i
Smp Info : |W7VM100306-01|BFB/CCV|1|VOAF|1|
Misc Info : GEL 5mL N/A UVM1001006-07D/UVM100222-07A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 2 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

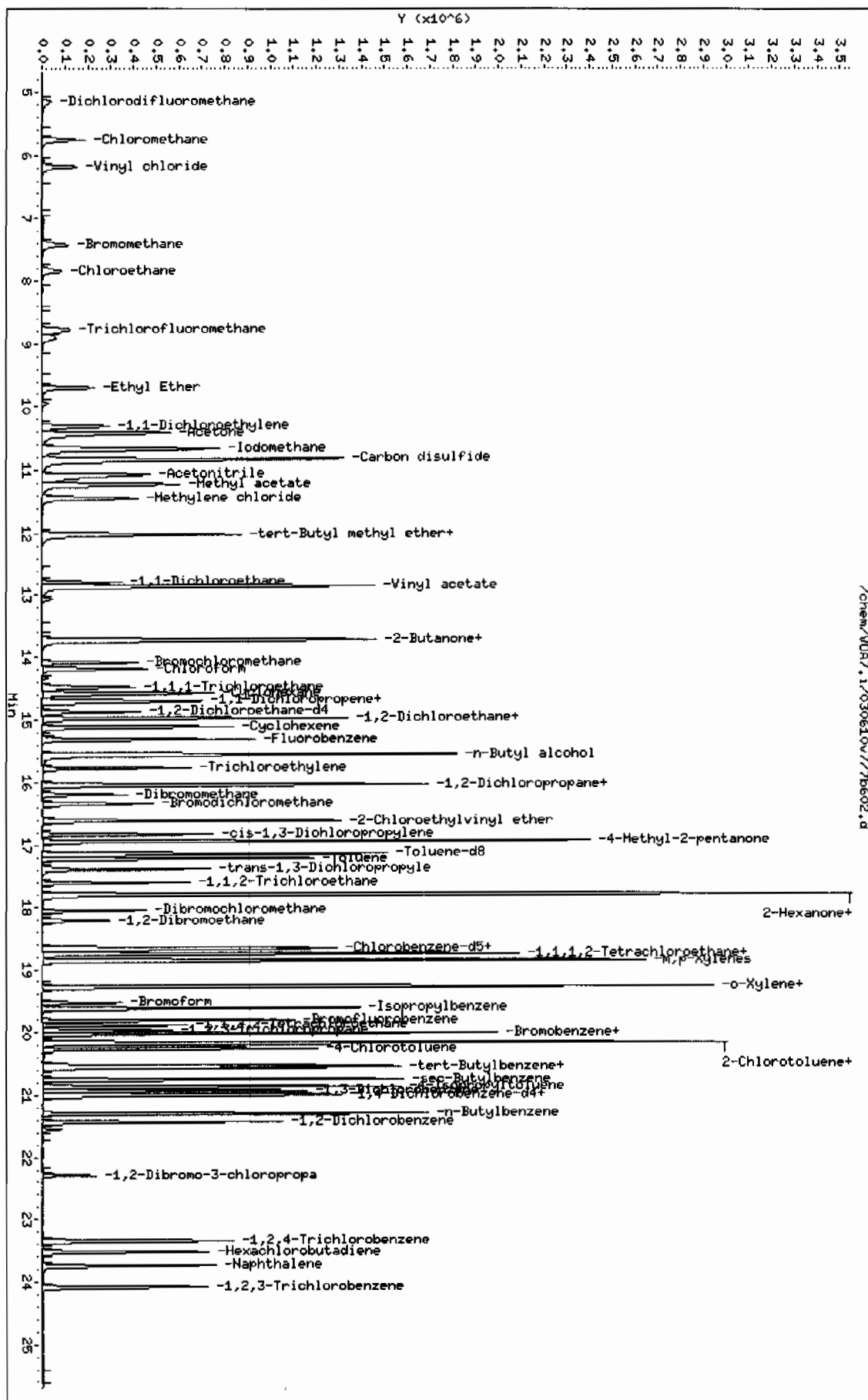
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

		QUANT SIG			AMOUNTS		
Compounds		MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====		=====	==	=====	=====	=====	=====
M 2 Xylenes (total)		106			1259756	150.000	153
M 3 1,2-Dichloroethylene (total)		96			776636	100.000	89.3
M 1 1,3-Dichloropropylene		75			764884	100.000	96.3
4 Dichlorodifluoromethane		85	5.148	5.148 (0.336)	131804	50.0000	48.2
5 Chloromethane		50	5.757	5.757 (0.376)	361928	50.0000	44.0
6 Vinyl chloride		62	6.188	6.188 (0.404)	362940	50.0000	49.7
7 Bromomethane		94	7.419	7.419 (0.484)	196410	50.0000	47.2
8 Chloroethane		64	7.835	7.835 (0.512)	190153	50.0000	50.9
9 Trichlorofluoromethane		101	8.789	8.789 (0.574)	273474	50.0000	48.9
10 Ethyl Ether		59	9.693	9.693 (0.633)	233259	50.0000	44.9
13 Acetone		43	10.413	10.413 (0.680)	1273043	250.000	216
17 Acetonitrile		41	11.073	11.073 (0.723)	1105085	1000.00	1060
14 1,1-Dichloroethylene		96	10.302	10.302 (0.673)	179374	50.0000	46.9
18 Methyl acetate		43	11.215	11.215 (0.732)	1217742	250.000	224
16 Iodomethane		142	10.667	10.667 (0.696)	1543541	250.000	232

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)	151923	50.0000	42.3
19 Carbon disulfide	76	10.830	10.830	(0.707)	2963595	250.000	220
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	593409	50.0000	43.7
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	364719	50.0000	45.2
26 Vinyl acetate	43	12.860	12.860	(0.840)	2924439	250.000	219
28 1,1-Dichloroethane	63	12.789	12.789	(0.835)	480759	50.0000	45.7
31 2-Butanone	43	13.713	13.713	(0.895)	1534844	250.000	234
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	411917	50.0000	44.2
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	218463	50.0000	50.0
38 Chloroform	83	14.190	14.190	(0.926)	370408	50.0000	42.3
37 Bromochloromethane	49	14.088	14.088	(0.920)	304238	50.0000	44.1
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	282231	50.0000	47.0
43 Cyclohexane	56	14.586	14.586	(0.952)	467096	50.0000	47.8
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	289620	50.0000	46.1
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1222395	5000.00	5350
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	219567	50.0000	46.0
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	316633	50.0000	41.7
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	341961	50.0000	39.6
48 Benzene	78	14.982	14.982	(0.978)	869981	50.0000	45.3
50 Cyclohexene	67	15.114	15.114	(0.987)	442789	50.0000	48.9
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	878600	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	220457	50.0000	47.4
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	294389	50.0000	46.0
55 Methylcyclohexane	83	16.027	16.027	(1.046)	397118	50.0000	51.3
59 Bromodichloromethane	83	16.332	16.332	(1.066)	305471	50.0000	44.5
58 Dibromomethane	93	16.180	16.180	(1.056)	154478	50.0000	44.8
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	627081	250.000	252
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	744650	250.000	237
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	399345	50.0000	47.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	965112	50.0000	46.5
65 Toluene	92	17.215	17.215	(0.922)	544931	50.0000	47.4
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	365539	50.0000	47.0
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	197497	50.0000	45.6
69 2-Hexanone	43	17.794	17.794	(0.953)	1947111	250.000	224
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	412927	50.0000	46.5
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	157653	50.0000	49.7
72 Dibromochloromethane	129	18.058	18.058	(0.967)	224691	50.0000	48.1
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	223266	50.0000	47.6
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	637811	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	561424	50.0000	47.5
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	203741	50.0000	50.0
78 Ethylbenzene	91	18.758	18.758	(1.005)	999141	50.0000	46.6
79 m,p-Xylenes	106	18.870	18.870	(1.011)	820878	100.000	102
80 o-Xylene	106	19.286	19.286	(1.033)	438878	50.0000	51.3
81 Styrene	104	19.286	19.286	(1.033)	701091	50.0000	51.2
82 Bromoform	173	19.530	19.530	(0.930)	157094	50.0000	52.2
83 Isopropylbenzene	105	19.631	19.631	(0.935)	983327	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)	334296	50.0000	47.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	375243	50.0000	45.4
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	71920	50.0000	46.5
90 Bromobenzene	156	20.017	20.017	(0.954)	236297	50.0000	49.7
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1241897	50.0000	48.1
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	851070	50.0000	48.2
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	869709	50.0000	51.8
94 4-Chlorotoluene	91	20.261	20.261	(0.965)	743530	50.0000	46.9
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	798361	50.0000	52.5
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	848078	50.0000	49.9
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1160661	50.0000	51.8
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	874898	50.0000	54.1
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	465262	50.0000	50.1
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	313865	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	463806	50.0000	51.1
104 n-Butylbenzene	91	21.296	21.296	(1.014)	991958	50.0000	52.9
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	471267	50.0000	50.5
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	62083	50.0000	52.8
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	317844	50.0000	54.4
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	173621	50.0000	55.3
110 Naphthalene	128	23.743	23.743	(1.131)	750572	50.0000	51.1
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	278099	50.0000	51.5



Data File: /chem/V007.i/030610v7/7b602.d
 Date: 06-MAR-2010 12:41
 Client ID: WSTD050
 Sample Info: I42VH100306-01.BFB/CCV11.V00AF.11
 Purge Volume: 5.0
 Column phase: DB-624

/chem/V007.i/030610v7/7b602.d

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

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 06-MAR-2010 14:39
Lab File ID: 7b605.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-04 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
11 Acrolein	0.04808	0.05994	0.05994	0.001	24.67565	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.10541	0.10541	0.010	20.65119	30.00000	Averaged
20 Allyl chloride	0.47439	0.45998	0.45998	0.010	-3.03885	30.00000	Averaged
23 Acrylonitrile	0.13462	0.12839	0.12839	0.010	-4.62728	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.52175	0.52175	0.010	27.87054	30.00000	Averaged
35 Propionitrile	0.05907	0.05161	0.05161	0.010	-12.62365	30.00000	Averaged
32 Ethyl acetate	0.40471	0.31346	0.31346	0.010	-22.54692	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.19804	0.19804	0.010	-19.26605	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.34694	0.34694	0.010	-17.22955	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01397	0.01397	0.005	-22.02225	40.00000	Averaged
54 Methyl methacrylate	0.21684	0.19896	0.19896	0.010	-8.24421	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.50713	0.50713	0.010	-11.39896	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00296	0.00296	0.001	-9.23712	40.00000	Averaged
60 2-Nitropropane	0.14035	0.12295	0.12295	0.010	-12.39616	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.39442	0.39442	0.010	1.39412	30.00000	Averaged
85 Cyclohexanone	0.02826	0.07622	0.07622	0.010	170	40.00000	Averaged<-
88 trans-1,4-Dichloro-2-butene	0.35107	0.35444	0.35444	0.010	0.96091	30.00000	Averaged
97 Pentachloroethane	0.28176	0.49743	0.49743	0.010	76.54674	30.00000	Averaged<-
103 Benzyl chloride	1.23904	1.61303	1.61303	0.010	30.18332	30.00000	Averaged<-
106 bis(2-Chloroisopropyl)ether	0.69951	0.59007	0.59007	0.010	-15.64555	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.36716	0.36716	0.010	-15.00704	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.59146	1.59146	0.010	-2.20518	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.31523	1.24086	1.24086	0.010	-5.65507	30.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	6.38379
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/030610v7/7b605.d

Lab Smp Id: W7VM100306-04

Client Smp ID: VSTD250S

Inj Date : 06-MAR-2010 14:39

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100306-04|SHORT/SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM091216-08B/UVM100125-08E

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 06-Mar-2010 17:12 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.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				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
11 Acrolein	56	10.017	10.017	(0.654)	341545	250.000	312
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	600600	250.000	302
20 Allyl chloride	41	11.175	11.175	(0.730)	2620896	250.000	242
23 Acrylonitrile	53	11.926	11.926	(0.779)	731544	250.000	238
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	594578	50.0000	63.9
35 Propionitrile	54	13.804	13.804	(0.901)	294070	250.000	218
32 Ethyl acetate	43	13.794	13.794	(0.901)	1786051	250.000	194
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1128389	250.000	202
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	645494	250.000	207
42 Isobutyl alcohol	41	14.738	14.738	(0.962)	795963	2500.00	1950
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1133648	250.000	229
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1999754	250.000	222
57 1,4-Dioxane	88	16.159	16.159	(1.055)	168543	2500.00	2270
60 2-Nitropropane	43	16.555	16.555	(1.081)	700561	250.000	219
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	733828	250.000	253
85 Cyclohexanone	55	19.773	19.773	(1.059)	1502820	1250.00	3370 (A)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	659438	250.000	252
97 Pentachloroethane	167	20.596	20.596	(0.981)	925474	250.000	441(A)
103 Benzyl chloride	91	21.123	21.123	(1.006)	3001058	250.000	325
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1097823	250.000	211
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1139577	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	788653	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	372102	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	418407	50.0000	42.5
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1255110	50.0000	48.9
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	461725	50.0000	47.2

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V067.i/030610v7/7b605.d

Date : 06-MAR-2010 14:39

Client ID: VSTD2505

Sample Info: MWVMD00306-04ISHORT/SLCS11/V067111

Purge Volume: 5.0

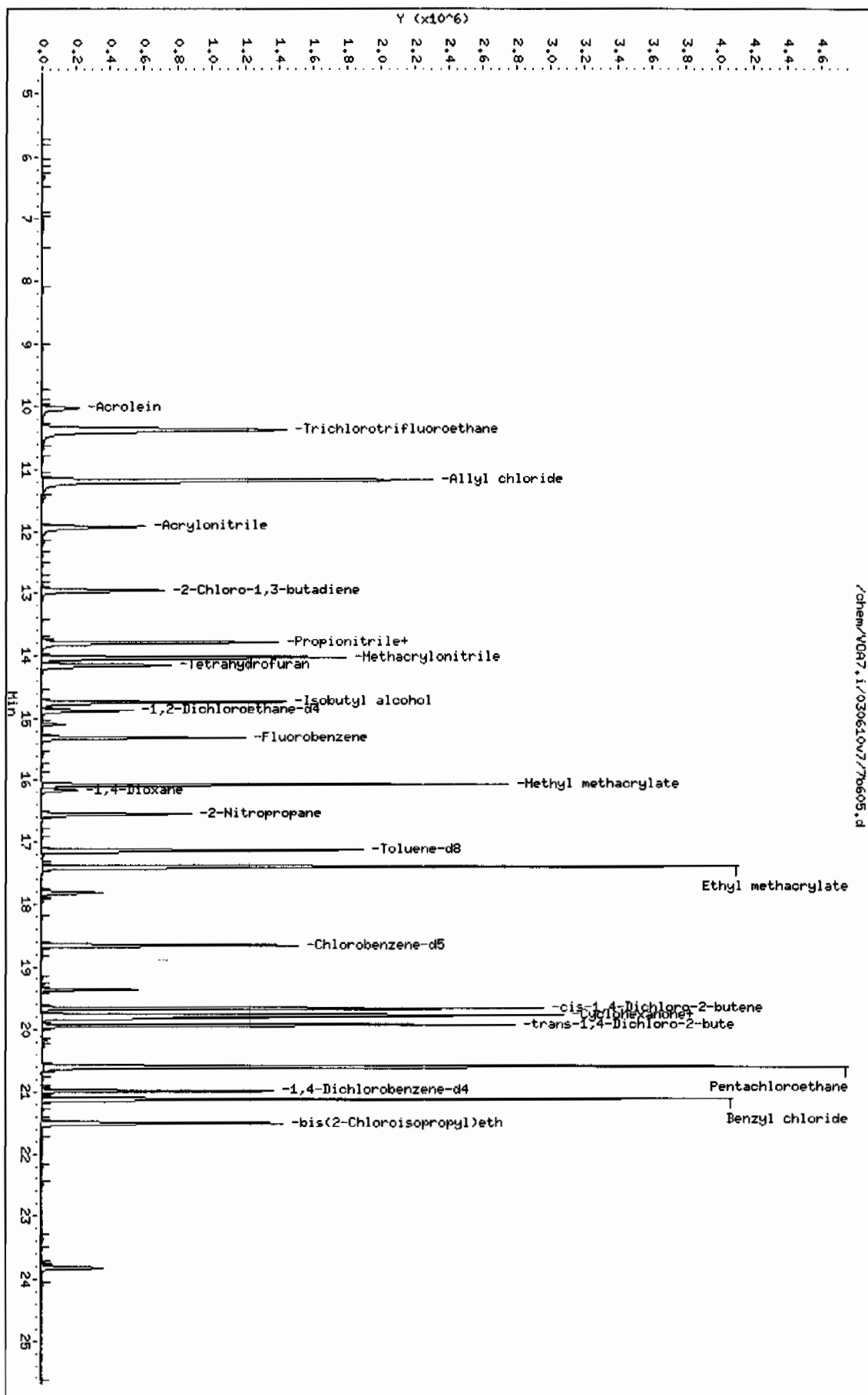
Column phase: DB-624

Instrument: V067.i

Operator: KX01

Column diameter: 0.25

/chem/V067.i/030610v7/7b605.d



Data File: /chem/VOA7.i/030610v7/7b624.d
Report Date: 22-Mar-2010 20:41

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GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 07-MAR-2010 01:12
Lab File ID: 7b624.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-05 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
IM 2 Xylenes (total)	0.64551	0.62633	0.62633	0.050	-2.97093	30.00000	Averaged
IM 3 1,2-Dichloroethylene (total)	0.49511	0.41028	0.41028	0.050	-17.13338	30.00000	Averaged
IM 1 1,3-Dichloropropylene	0.45215	0.44404	0.44404	0.050	-1.79478	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.11585	0.11585	0.050	-25.59014	30.00000	Averaged
5 Chloromethane	0.46771	0.38451	0.38451	0.100	-17.78854	30.00000	Averaged|spcc
6 Vinyl chloride	0.41543	0.35856	0.35856	0.050	-13.68783	20.00000	Averaged|ccc
7 Bromomethane	0.23685	0.21528	0.21528	0.050	-9.10771	30.00000	Averaged
8 Chloroethane	0.21246	0.18106	0.18106	0.010	-14.78060	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.24279	0.24279	0.050	-23.64697	30.00000	Averaged
10 Ethyl Ether	0.29582	0.28083	0.28083	0.001	-5.06894	30.00000	Averaged
13 Acetone	0.33491	0.28321	0.28321	0.050	-15.43735	40.00000	Averaged
17 Acetonitrile	0.05935	0.06515	0.06515	0.010	9.76772	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.18162	0.18162	0.050	-16.47511	20.00000	Averaged|ccc
18 Methyl acetate	0.30971	0.28299	0.28299	0.010	-8.62518	40.00000	Averaged
16 Iodomethane	0.37891	0.34399	0.34399	0.050	-9.21531	30.00000	Averaged
22 Methylene chloride	0.20428	0.17887	0.17887	0.050	-12.43877	30.00000	Averaged
19 Carbon disulfide	0.76494	0.61084	0.61084	0.050	-20.14576	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.69056	0.69056	0.050	-10.71067	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.37241	0.37241	0.050	-18.98714	30.00000	Averaged
26 Vinyl acetate	0.75971	0.63744	0.63744	0.010	-16.09403	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.53048	0.53048	0.100	-11.31851	30.00000	Averaged|spcc
31 2-Butanone	0.37353	0.34313	0.34313	0.030	-8.13776	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.44815	0.44815	0.050	-15.52710	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.19100	0.19100	0.050	-23.13209	30.00000	Averaged
38 Chloroform	0.49798	0.43067	0.43067	0.010	-13.51679	20.00000	Averaged|ccc
37 Bromochloromethane	0.39220	0.37506	0.37506	0.010	-4.36919	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.27670	0.27670	0.010	-19.03073	30.00000	Averaged
43 Cyclohexane	0.55549	0.42939	0.42939	0.010	-22.70101	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.29152	0.29152	0.010	-18.52213	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01459	0.01459	0.001	12.20556	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.21021	0.21021	0.010	-22.69129	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.38040	0.38040	0.010	-11.94107	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.40876	0.40876	0.010	-16.80385	30.00000	Averaged
48 Benzene	1.09329	0.96442	0.96442	0.010	-11.78684	30.00000	Averaged
50 Cyclohexene	0.51508	0.41997	0.41997	0.010	-18.46608	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 07-MAR-2010 01:12
Lab File ID: 7b624.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-05 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL	MIN	MAX	CURVE TYPE
			RRF50	RRF %D / %DRIFT	%D / %DRIFT	
53 Trichloroethylene	0.26489	0.23082	0.23082	0.010	-12.86325	30.00000 Averaged
56 1,2-Dichloropropane	0.36406	0.34102	0.34102	0.010	-6.32853	20.00000 Averaged|ccc
55 Methylcyclohexane	0.44055	0.36817	0.36817	0.010	-16.42902	30.00000 Averaged
59 Bromodichloromethane	0.39044	0.36022	0.36022	0.010	-7.73990	30.00000 Averaged
58 Dibromomethane	0.19638	0.19194	0.19194	0.010	-2.25690	30.00000 Averaged
61 2-Chloroethylvinyl ether	0.14176	0.15253	0.15253	0.010	7.60151	30.00000 Averaged
63 4-Methyl-2-pentanone	0.24607	0.22897	0.22897	0.010	-6.94694	40.00000 Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.46702	0.46702	0.010	-1.78463	30.00000 Averaged
64 Toluene-d8	1.62735	1.56794	1.56794	0.010	-3.65080	30.00000 Averaged
65 Toluene	0.90021	0.81240	0.81240	0.010	-9.75493	20.00000 Averaged|ccc
67 trans-1,3-Dichloropropylene	0.61004	0.57662	0.57662	0.010	-5.47826	30.00000 Averaged
68 1,1,2-Trichloroethane	0.33917	0.33063	0.33063	0.010	-2.51975	30.00000 Averaged
69 2-Hexanone	0.68092	0.62384	0.62384	0.010	-8.38254	40.00000 Averaged
70 1,3-Dichloropropane	0.69553	0.69737	0.69737	0.010	0.26319	30.00000 Averaged
71 Tetrachloroethylene	0.24878	0.21425	0.21425	0.010	-13.88082	30.00000 Averaged
72 Dibromochloromethane	0.36583	0.36875	0.36875	0.010	0.79781	30.00000 Averaged
73 1,2-Dibromoethane	0.36785	0.36546	0.36546	0.010	-0.64921	30.00000 Averaged
76 Chlorobenzene	0.92664	0.88171	0.88171	0.300	-4.84844	30.00000 Averaged|spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.32285	0.32285	0.010	1.10539	30.00000 Averaged
78 Ethylbenzene	1.68200	1.46894	1.46894	0.010	-12.66694	20.00000 Averaged|ccc
79 m,p-Xylenes	0.63299	0.60694	0.60694	0.010	-4.11509	30.00000 Averaged
80 o-Xylene	0.67056	0.66512	0.66512	0.010	-0.81082	30.00000 Averaged
81 Styrene	1.07382	1.09942	1.09942	0.010	2.38389	30.00000 Averaged
82 Bromoform	0.47906	0.50361	0.50361	0.100	5.12499	30.00000 Averaged|spcc
83 Isopropylbenzene	3.23464	2.78988	2.78988	0.010	-13.74990	30.00000 Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	1.11150	1.11150	0.300	-1.76841	30.00000 Averaged|spcc
86 Bromofluorobenzene	1.31523	1.19044	1.19044	0.010	-9.48865	30.00000 Averaged
89 1,2,3-Trichloropropane	0.24620	0.23134	0.23134	0.010	-6.03438	30.00000 Averaged
90 Bromobenzene	0.75737	0.74840	0.74840	0.010	-1.18466	30.00000 Averaged
91 n-Propylbenzene	4.11235	3.51132	3.51132	0.010	-14.61507	30.00000 Averaged
93 2-Chlorotoluene	2.81550	2.50689	2.50689	0.010	-10.96095	30.00000 Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.42445	2.42445	0.010	-9.29347	30.00000 Averaged
94 4-Chlorotoluene	2.52732	2.21190	2.21190	0.010	-12.48039	30.00000 Averaged
95 tert-Butylbenzene	2.42130	2.24495	2.24495	0.010	-7.28344	30.00000 Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.49539	2.49539	0.010	-7.75098	30.00000 Averaged
98 sec-Butylbenzene	3.56563	3.18716	3.18716	0.010	-10.61460	30.00000 Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 07-MAR-2010 01:12
Lab File ID: 7b624.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-05 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.39985	2.39985	0.010	-6.88255	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.46031	1.46031	0.010	-1.30260	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.43421	1.43421	0.010	-0.72809	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.71616	2.71616	0.010	-9.02591	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.51485	1.51485	0.010	1.92786	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	49.47512	50.00000	0.18507	0.010	-1.04975	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.95720	0.95720	0.010	2.80449	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.46769	0.46769	0.010	-6.44483	30.00000	Averaged
110 Naphthalene	2.33792	2.46146	2.46146	0.010	5.28439	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.89400	0.89400	0.010	3.86158	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.66096
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/030610v7/7b624.d
 Lab Smp Id: W7VM100306-05 Client Smp ID: VSTD050
 Inj Date : 07-MAR-2010 01:12
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |W7VM100306-05|BFB/CCV/LCS|1|VOAF|1|
 Misc Info : GEL 5mL N/A UVM1001006-07D/UVM100222-07A
 Comment :
 Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
 Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 24 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

					AMOUNTS	
		QUANT	SIG		CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT REL RT	RESPONSE	(ug/l)
=====		=====	==	=====	=====	=====
M 2 Xylenes (total)		106			1034850	150.000 145
M 3 1,2-Dichloroethylene (total)		96			618886	100.000 82.7
M 1 1,3-Dichloropropylene		75			669808	100.000 98.2
4 Dichlorodifluoromethane		85	5.147	5.147 (0.336)	87375	50.0000 37.2
5 Chloromethane		50	5.757	5.757 (0.376)	290007	50.0000 41.1
6 Vinyl chloride		62	6.187	6.187 (0.404)	270438	50.0000 43.2
7 Bromomethane		94	7.418	7.418 (0.484)	162370	50.0000 45.4
8 Chloroethane		64	7.855	7.855 (0.513)	136558	50.0000 42.6
9 Trichlorofluoromethane		101	8.799	8.799 (0.574)	183120	50.0000 38.2
10 Ethyl Ether		59	9.703	9.703 (0.633)	211806	50.0000 47.5
13 Acetone		43	10.413	10.413 (0.680)	1068025	250.000 211
17 Acetonitrile		41	11.073	11.073 (0.723)	982738	1000.00 1100
14 1,1-Dichloroethylene		96	10.312	10.312 (0.673)	136980	50.0000 41.8
18 Methyl acetate		43	11.225	11.225 (0.733)	1067207	250.000 228
16 Iodomethane		142	10.667	10.667 (0.696)	1297236	250.000 227

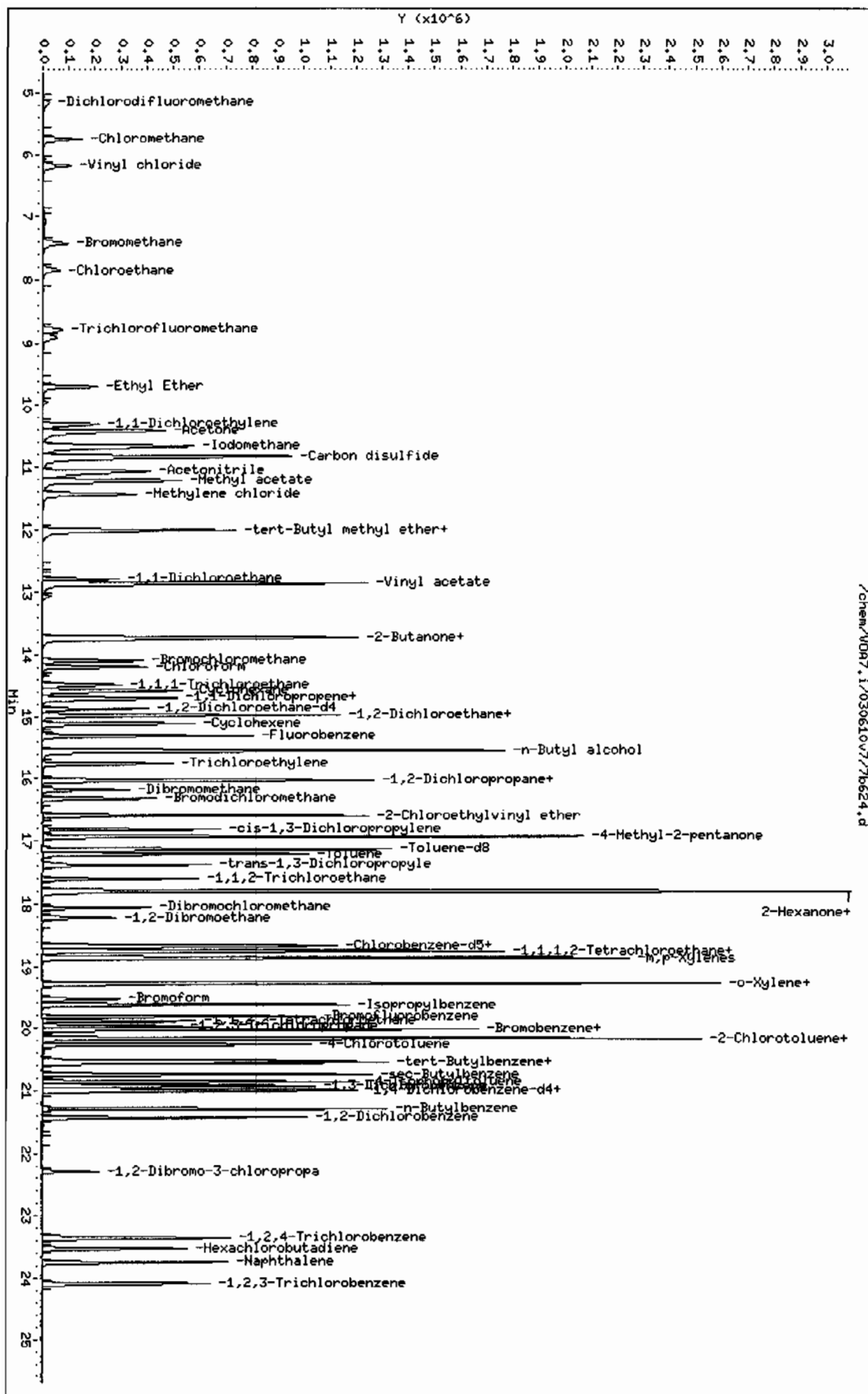
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
22 Methylene chloride	86	11.439	11.439	(0.747)	134908	50.0000	43.8
19 Carbon disulfide	76	10.840	10.840	(0.708)	2303541	250.000	200
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	520836	50.0000	44.6
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	280883	50.0000	40.5
26 Vinyl acetate	43	12.860	12.860	(0.840)	2403886	250.000	210
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	400104	50.0000	44.3
31 2-Butanone	43	13.723	13.723	(0.896)	1294002	250.000	230
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	338003	50.0000	42.2
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	144059	50.0000	38.4
38 Chloroform	83	14.190	14.190	(0.926)	324819	50.0000	43.2
37 Bromochloromethane	49	14.088	14.088	(0.920)	282882	50.0000	47.8
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	208692	50.0000	40.5
43 Cyclohexane	56	14.586	14.586	(0.952)	323855	50.0000	38.6
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	219875	50.0000	40.7
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1100376	5000.00	5610
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	158548	50.0000	38.6
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	286911	50.0000	44.0
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	308301	50.0000	41.6
48 Benzene	78	14.982	14.982	(0.978)	727393	50.0000	44.1
50 Cyclohexene	67	15.124	15.124	(0.987)	316749	50.0000	40.8
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	754226	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	174091	50.0000	43.6
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	257206	50.0000	46.8
55 Methylcyclohexane	83	16.027	16.027	(1.046)	277686	50.0000	41.8
59 Bromodichloromethane	83	16.332	16.332	(1.066)	271691	50.0000	46.1
58 Dibromomethane	93	16.179	16.179	(1.056)	144769	50.0000	48.9
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	575217	250.000	269
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	630528	250.000	233
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	352238	50.0000	49.1
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	863534	50.0000	48.2
65 Toluene	92	17.215	17.215	(0.922)	447425	50.0000	45.1
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	317570	50.0000	47.3
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	182091	50.0000	48.7
69 2-Hexanone	43	17.794	17.794	(0.953)	1717892	250.000	229
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	384071	50.0000	50.1
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	117995	50.0000	43.0
72 Dibromochloromethane	129	18.058	18.058	(0.967)	203086	50.0000	50.4
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	201277	50.0000	49.7
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	550746	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	485597	50.0000	47.6
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	177807	50.0000	50.6
78 Ethylbenzene	91	18.758	18.758	(1.005)	809012	50.0000	43.7
79 m,p-Xylenes	106	18.870	18.870	(1.011)	668537	100.000	95.9
80 o-Xylene	106	19.286	19.286	(1.033)	366313	50.0000	49.6
81 Styrene	104	19.286	19.286	(1.033)	605499	50.0000	51.2
82 Bromoform	173	19.540	19.540	(0.931)	143905	50.0000	52.6
83 Isopropylbenzene	105	19.631	19.631	(0.935)	797195	50.0000	43.1

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	==	=====	=====	=====	=====	=====
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	317605	50.0000	49.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	340161	50.0000	45.2
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	66105	50.0000	47.0
90 Bromobenzene	156	20.017	20.017	(0.954)	213851	50.0000	49.4
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1003343	50.0000	42.7
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	716332	50.0000	44.5
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	692774	50.0000	45.4
94 4-Chlorotoluene	91	20.271	20.271	(0.966)	632039	50.0000	43.8
95 tert-Butylbenzene	119	20.524	20.524	(0.978)	641482	50.0000	46.4
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	713046	50.0000	46.1
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	910714	50.0000	44.7
99 4-Isopropyltoluene	119	20.859	20.859	(0.994)	685745	50.0000	46.6
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	417276	50.0000	49.3
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	285745	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	409817	50.0000	49.6
104 n-Butylbenzene	91	21.296	21.296	(1.014)	776129	50.0000	45.5
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	432862	50.0000	51.0
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	52882	50.0000	49.5
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	273516	50.0000	51.4
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	133641	50.0000	46.8
110 Naphthalene	128	23.743	23.743	(1.131)	703350	50.0000	52.6
111 1,2,3-Trichlorobenzene	180	24.098	24.098	(1.148)	255455	50.0000	51.9

Data File: /chem/V047.1/030610v7/7b624.d
 Date: 07-MAR-2010 01:12
 Client ID: VSTD050
 Sample Info: 147VH100306-051BFB/CCW/LCS111V047.11
 Purge Volume: 5.0
 Column Phase: DB-624

Instrument: V047.1
 Operator: RKD1
 Column diameter: 0.25

/chem/V047.1/030610v7/7b624.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 07-MAR-2010 02:19
Lab File ID: 7b626.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-04 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
147 Chlorotrifluoroethylene	0.10627	0.08565	0.08565	0.010	-19.40600	30.00000	Averaged
148 2-Chloro-1,1,1-trifluoroeth	0.21104	0.18932	0.18932	0.010	-10.28919	30.00000	Averaged
11 Acrolein	0.04808	0.05837	0.05837	0.001	21.40881	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.08011	0.08011	0.010	-8.30984	30.00000	Averaged
15 Isopropyl Alcohol	0.03252	0.02845	0.02845	0.010	-12.51928	40.00000	Averaged
20 Allyl chloride	0.47439	0.41927	0.41927	0.010	-11.61941	30.00000	Averaged
21 tert-Butyl Alcohol	0.04700	0.04111	0.04111	0.001	-12.53212	40.00000	Averaged
23 Acrylonitrile	0.13462	0.13672	0.13672	0.010	1.55911	30.00000	Averaged
27 Isopropyl ether	1.27617	1.18462	1.18462	0.010	-7.17422	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.40531	0.40531	0.010	-0.66702	30.00000	Averaged
30 Ethyl tert-butyl ether	0.87171	0.86980	0.86980	0.010	-0.21909	30.00000	Averaged
35 Propionitrile	0.05907	0.05561	0.05561	0.010	-5.86011	30.00000	Averaged
32 Ethyl acetate	0.40471	0.34117	0.34117	0.010	-15.70088	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.21770	0.21770	0.010	-11.25133	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.37503	0.37503	0.010	-10.52815	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01591	0.01591	0.005	-11.20199	40.00000	Averaged
49 Methyl tert-amyl ether	0.66978	0.69410	0.69410	0.010	3.63009	30.00000	Averaged
54 Methyl methacrylate	0.21684	0.21349	0.21349	0.010	-1.54171	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.56332	0.56332	0.010	-1.58161	30.00000	Averaged
74 1-Chlorohexane	0.31936	0.29231	0.29231	0.010	-8.46856	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00293	0.00293	0.001	-10.03509	40.00000	Averaged
60 2-Nitropropane	0.14035	0.13104	0.13104	0.010	-6.63576	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.39859	0.39859	0.010	2.46645	30.00000	Averaged
85 Cyclohexanone	0.02826	0.08573	0.08573	0.010	203	40.00000	Averaged<-
88 trans-1,4-Dichloro-2-butene	0.35107	0.35672	0.35672	0.010	1.61048	30.00000	Averaged
97 Pentachloroethane	0.28176	0.26732	0.26732	0.010	-5.12224	30.00000	Averaged
103 Benzyl chloride	1.23904	1.32293	1.32293	0.010	6.77024	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.64617	0.64617	0.010	-7.62558	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.38997	0.38997	0.010	-9.72760	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.65083	1.65083	0.010	1.44337	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.31523	1.20501	1.20501	0.010	-8.38029	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 07-MAR-2010 02:19
Lab File ID: 7b626.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100306-04 Quant Type: ISTD
Method: /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	9.66096
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/030610v7/7b626.d

Lab Smp Id: W7VM100306-04

Client Smp ID: VSTD250S

Inj Date : 07-MAR-2010 02:19

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100306-04|SHORT/SLCS|1|VOAF|1|

Misc Info : GEL 5g N/A UVM091216-08B/UVM100125-08E

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Meth Date : 08-Mar-2010 08:04 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 26

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: CALsubS+SS.sub

Target Version: 3.50

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	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
147 Chlorotrifluoroethylene	116	5.044	5.044	(0.329)	239238	150.000	121
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	528817	150.000	134
11 Acrolein	56	10.017	10.017	(0.654)	271739	250.000	304
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	372917	250.000	229
15 Isopropyl Alcohol	45	10.779	10.779	(0.704)	1324390	2500.00	2190
20 Allyl chloride	41	11.185	11.185	(0.730)	1951845	250.000	221
21 tert-Butyl Alcohol	59	11.662	11.662	(0.761)	1913846	2500.00	2190
23 Acrylonitrile	53	11.926	11.926	(0.779)	636460	250.000	254
27 Isopropyl ether	45	12.900	12.900	(0.842)	1102954	50.0000	46.4
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	377370	50.0000	49.7
30 Ethyl tert-butyl ether	59	13.489	13.489	(0.881)	809842	50.0000	49.9
35 Propionitrile	54	13.804	13.804	(0.901)	258861	250.000	235
32 Ethyl acetate	43	13.804	13.804	(0.901)	1588234	250.000	211

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1013446	250.000	222
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	576803	250.000	224
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	740562	2500.00	2220
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	646250	50.0000	51.8
54 Methyl methacrylate	69	16.078	16.078	(1.050)	993878	250.000	246
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1739368	250.000	246
74 1-Chlorohexane	55	18.575	18.575	(1.213)	272160	50.0000	45.8
57 1,4-Dioxane	88	16.159	16.159	(1.055)	136493	2500.00	2250
60 2-Nitropropane	43	16.555	16.555	(1.081)	610014	250.000	233
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	613038	250.000	256
85 Cyclohexanone	55	19.773	19.773	(1.059)	1323553	1250.00	3790 (A)
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	548635	250.000	254
97 Pentachloroethane	167	20.596	20.596	(0.981)	411143	250.000	237
103 Benzyl chloride	91	21.123	21.123	(1.006)	2034670	250.000	267
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	993804	250.000	231
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	931065	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	617537	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	307600	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	363084	50.0000	45.1
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1019453	50.0000	50.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	370662	50.0000	45.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V067.1/030610v7/7b626.d

Date: 07-MAR-2010 02:19

Client ID: VSTD2505

Sample Info: 147MHL00306-04|SHORT|SLCS11|V067.1|

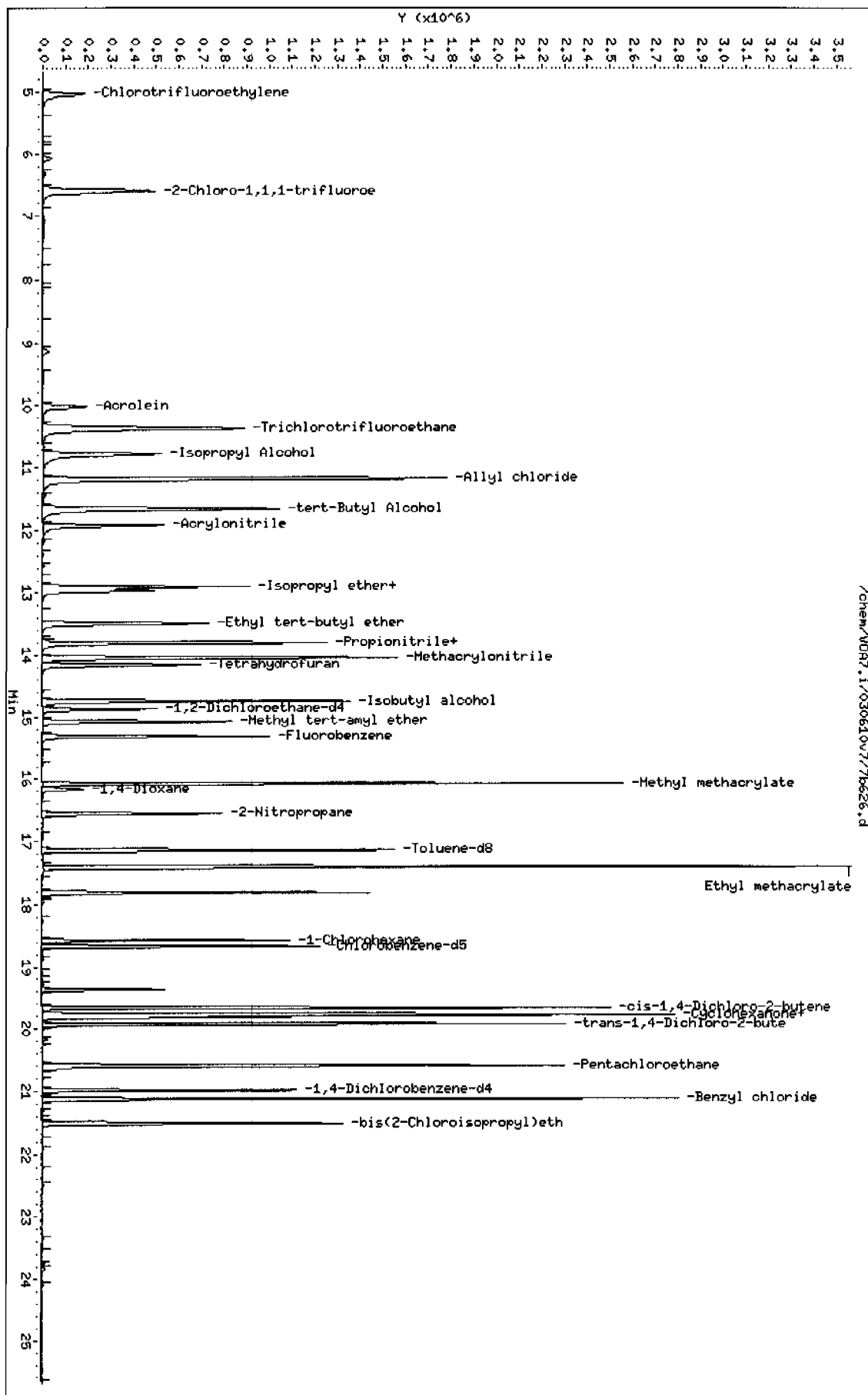
Column phase: DB-624

Instrument: V067.1

Operator: RX01

Column diameter: 0.25

/chem/V067.1/030610v7/7b626.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 09-MAR-2010 10:30
Lab File ID: 7c202.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100309-01 Quant Type: ISTD
Method: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Xylenes (total)	0.64551	0.60785	0.60785	0.050	-5.83359	30.00000	Averaged
3 1,2-Dichloroethylene (total)	0.49511	0.41099	0.41099	0.050	-16.99056	30.00000	Averaged
1 1,3-Dichloropropylene	0.45215	0.44712	0.44712	0.050	-1.11268	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.14841	0.14841	0.050	-4.67463	30.00000	Averaged
5 Chloromethane	0.46771	0.38912	0.38912	0.100	-16.80208	30.00000	Averaged|spcc
6 Vinyl chloride	0.41543	0.36431	0.36431	0.050	-12.30368	20.00000	Averaged|ccc
7 Bromomethane	0.23685	0.23238	0.23238	0.050	-1.88816	30.00000	Averaged
8 Chloroethane	0.21246	0.21210	0.21210	0.010	-0.16906	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.31384	0.31384	0.050	-1.30519	30.00000	Averaged
10 Ethyl Ether	0.29582	0.29108	0.29108	0.001	-1.60368	30.00000	Averaged
13 Acetone	0.33491	0.28596	0.28596	0.050	-14.61579	40.00000	Averaged
17 Acetonitrile	0.05935	0.05926	0.05926	0.010	-0.15475	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.18302	0.18302	0.050	-15.83112	20.00000	Averaged|ccc
18 Methyl acetate	0.30971	0.26385	0.26385	0.010	-14.80681	40.00000	Averaged
16 Iodomethane	0.37891	0.33131	0.33131	0.050	-12.56208	30.00000	Averaged
22 Methylene chloride	0.20428	0.18227	0.18227	0.050	-10.77251	30.00000	Averaged
19 Carbon disulfide	0.76494	0.60173	0.60173	0.050	-21.33594	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.70157	0.70157	0.050	-9.28604	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.38387	0.38387	0.050	-16.49550	30.00000	Averaged
26 Vinyl acetate	0.75971	0.64214	0.64214	0.010	-15.47537	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.53394	0.53394	0.100	-10.74035	30.00000	Averaged|spcc
31 2-Butanone	0.37353	0.32041	0.32041	0.030	-14.22212	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.43811	0.43811	0.050	-17.41953	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.23476	0.23476	0.050	-5.52147	30.00000	Averaged
38 Chloroform	0.49798	0.43462	0.43462	0.010	-12.72179	20.00000	Averaged|ccc
37 Bromochloromethane	0.39220	0.33827	0.33827	0.010	-13.75140	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.32082	0.32082	0.010	-6.11940	30.00000	Averaged
43 Cyclohexane	0.55549	0.45732	0.45732	0.010	-17.67195	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.31432	0.31432	0.010	-12.15077	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01288	0.01288	0.001	-0.91555	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.24659	0.24659	0.010	-9.31227	30.00000	Averaged
46 1,2-Dichloroethane-d4	0.43199	0.39006	0.39006	0.010	-9.70513	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.39202	0.39202	0.010	-20.21281	30.00000	Averaged
48 Benzene	1.09329	0.93633	0.93633	0.010	-14.35650	30.00000	Averaged
50 Cyclohexene	0.51508	0.46466	0.46466	0.010	-9.78843	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 09-MAR-2010 10:30
Lab File ID: 7c202.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100309-01 Quant Type: ISTD
Method: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.24388	0.24388	0.010	-7.93425	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.31477	0.31477	0.010	-13.53965	20.00000	Averaged|ccc
55 Methylcyclohexane	0.44055	0.41089	0.41089	0.010	-6.73272	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.36279	0.36279	0.010	-7.08314	30.00000	Averaged
58 Dibromomethane	0.19638	0.18939	0.18939	0.010	-3.55535	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.14843	0.14843	0.010	4.70548	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.22110	0.22110	0.010	-10.14424	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.46205	0.46205	0.010	-2.82983	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.53653	1.53653	0.010	-5.58046	30.00000	Averaged
65 Toluene	0.90021	0.81068	0.81068	0.010	-9.94601	20.00000	Averaged|ccc
67 trans-1,3-Dichloropropylene	0.61004	0.58956	0.58956	0.010	-3.35742	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.32646	0.32646	0.010	-3.74838	30.00000	Averaged
69 2-Hexanone	0.68092	0.54849	0.54849	0.010	-19.44879	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.62433	0.62433	0.010	-10.23705	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.22575	0.22575	0.010	-9.25564	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.37667	0.37667	0.010	2.96277	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.36594	0.36594	0.010	-0.52032	30.00000	Averaged
76 Chlorobenzene	0.92664	0.85430	0.85430	0.300	-7.80594	30.00000	Averaged|spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.31713	0.31713	0.010	-0.68422	30.00000	Averaged
78 Ethylbenzene	1.68200	1.43687	1.43687	0.010	-14.57323	20.00000	Averaged|ccc
79 m,p-Xylenes	0.63299	0.58500	0.58500	0.010	-7.58100	30.00000	Averaged
80 o-Xylene	0.67056	0.65356	0.65356	0.010	-2.53458	30.00000	Averaged
81 Styrene	1.07382	1.03505	1.03505	0.010	-3.61023	30.00000	Averaged
82 Bromoform	0.47906	0.51445	0.51445	0.100	7.38640	30.00000	Averaged|spcc
83 Isopropylbenzene	3.23464	2.98968	2.98968	0.010	-7.57324	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	1.11493	1.11493	0.300	-1.46502	30.00000	Averaged|spcc
\$ 86 Bromofluorobenzene	1.31523	1.35227	1.35227	0.010	2.81593	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.25269	0.25269	0.010	2.63817	30.00000	Averaged
90 Bromobenzene	0.75737	0.73213	0.73213	0.010	-3.33227	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.66160	3.66160	0.010	-10.96077	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.51757	2.51757	0.010	-10.58159	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.55399	2.55399	0.010	-4.44704	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.35939	2.35939	0.010	-6.64467	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.39435	2.39435	0.010	-1.11304	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.60187	2.60187	0.010	-3.81481	30.00000	Averaged
98 sec-Butylbenzene	3.56563	3.45073	3.45073	0.010	-3.22262	30.00000	Averaged

GEL Laboratories LLC
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 09-MAR-2010 10:30
 Lab File ID: 7c202.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
 Analysis Type: WATER Init. Cal. Times: 16:02 00:42
 Lab Sample ID: W7VM100309-01 Quant Type: ISTD
 Method: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.59022	2.59022	0.010	0.50425	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.43782	1.43782	0.010	-2.82257	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.40855	1.40855	0.010	-2.50357	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.92526	2.92526	0.010	-2.02234	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.50853	1.50853	0.010	1.50228	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	53.57681	50.00000	0.20074	0.010	7.15361	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.99840	0.99840	0.010	7.22925	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.50867	0.50867	0.010	1.75195	30.00000	Averaged
110 Naphthalene	2.33792	2.42977	2.42977	0.010	3.92885	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.89948	0.89948	0.010	4.49858	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 7.73966
 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/030910v7/7c202.d

Lab Smp Id: W7VM100309-01

Client Smp ID: VSTD050

Inj Date : 09-MAR-2010 10:30

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100309-01|BFB/CCV|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM1001006-07D/UVM100222-07B

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 2

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

		QUANT SIG			AMOUNTS		
Compounds		MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
M 2 Xylenes (total)		106			1331998	150.000	141
M 3 1,2-Dichloroethylene (total)		96			819008	100.000	83.0
M 1 1,3-Dichloropropylene		75			891017	100.000	98.9
4 Dichlorodifluoromethane		85	5.148	5.148 (0.336)	147875	50.0000	47.7
5 Chloromethane		50	5.757	5.757 (0.376)	387720	50.0000	41.6
6 Vinyl chloride		62	6.188	6.188 (0.404)	363000	50.0000	43.8
7 Bromomethane		94	7.419	7.419 (0.484)	231542	50.0000	49.0
8 Chloroethane		64	7.845	7.845 (0.512)	211336	50.0000	49.9
9 Trichlorofluoromethane		101	8.779	8.779 (0.573)	312704	50.0000	49.3
10 Ethyl Ether		59	9.703	9.703 (0.633)	290027	50.0000	49.2
13 Acetone		43	10.413	10.413 (0.680)	1424656	250.000	213
17 Acetonitrile		41	11.073	11.073 (0.723)	1180919	1000.00	998
14 1,1-Dichloroethylene		96	10.302	10.302 (0.673)	182357	50.0000	42.1
18 Methyl acetate		43	11.215	11.215 (0.732)	1314488	250.000	213
16 Iodomethane		142	10.667	10.667 (0.696)	1650577	250.000	218

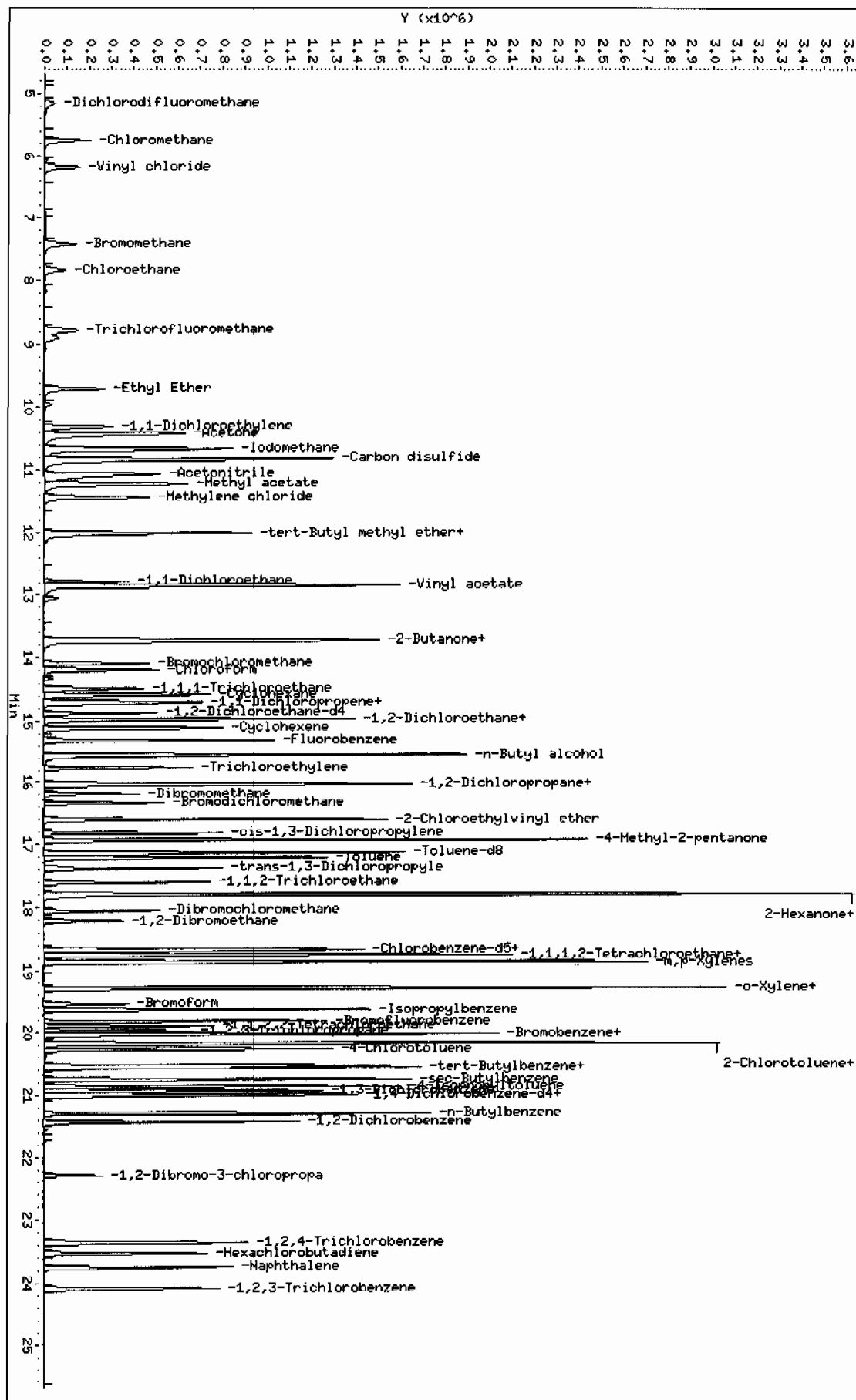
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	==	=====	=====	=====	=====	=====
22 Methylene chloride	86	11.449	11.449	(0.747)	181616	50.0000	44.6
19 Carbon disulfide	76	10.830	10.830	(0.707)	2997809	250.000	197
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	699045	50.0000	45.4
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	382482	50.0000	41.8
26 Vinyl acetate	43	12.860	12.860	(0.840)	3199145	250.000	211
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	532016	50.0000	44.6
31 2-Butanone	43	13.713	13.713	(0.895)	1596257	250.000	214
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	436526	50.0000	41.3
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	233915	50.0000	47.2
38 Chloroform	83	14.190	14.190	(0.926)	433057	50.0000	43.6
37 Bromochloromethane	49	14.088	14.088	(0.920)	337046	50.0000	43.1
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	319662	50.0000	46.9
43 Cyclohexane	56	14.586	14.586	(0.952)	455674	50.0000	41.2
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	313187	50.0000	43.9
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1283695	5000.00	4950
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	245703	50.0000	45.3
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	388657	50.0000	45.1
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	390602	50.0000	39.9
48 Benzene	78	14.982	14.982	(0.978)	932953	50.0000	42.8
50 Cyclohexene	67	15.114	15.114	(0.987)	462987	50.0000	45.1
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	996394	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	242998	50.0000	46.0
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	313632	50.0000	43.2
55 Methylcyclohexane	83	16.027	16.027	(1.046)	409409	50.0000	46.6
59 Bromodichloromethane	83	16.332	16.332	(1.066)	361481	50.0000	46.4
58 Dibromomethane	93	16.180	16.180	(1.056)	188711	50.0000	48.2
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	739456	250.000	262
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	807517	250.000	225
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	460383	50.0000	48.6
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1122342	50.0000	47.2
65 Toluene	92	17.215	17.215	(0.922)	592150	50.0000	45.0
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	430634	50.0000	48.3
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	238458	50.0000	48.1
69 2-Hexanone	43	17.794	17.794	(0.953)	2003188	250.000	201
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	456036	50.0000	44.9
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	164898	50.0000	45.4
72 Dibromochloromethane	129	18.058	18.058	(0.967)	275132	50.0000	51.5
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	267294	50.0000	49.7
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	730438	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	624015	50.0000	46.1
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	231646	50.0000	49.6
78 Ethylbenzene	91	18.768	18.768	(1.005)	1049548	50.0000	42.7
79 m,p-Xylenes	106	18.870	18.870	(1.011)	854611	100.000	92.4
80 o-Xylene	106	19.286	19.286	(1.033)	477387	50.0000	48.7
81 Styrene	104	19.286	19.286	(1.033)	756040	50.0000	48.2
82 Bromoform	173	19.540	19.540	(0.931)	182819	50.0000	53.7
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1062441	50.0000	46.2

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
	=====	==	=====		=====		(ug/l)	(ug/l)
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	396213		50.0000	49.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	480556		50.0000	51.4
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	89800		50.0000	51.3
90 Bromobenzene	156	20.017	20.017	(0.954)	260178		50.0000	48.3
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1301223		50.0000	44.5
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	894670		50.0000	44.7
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	907610		50.0000	47.8
94 4-Chlorotoluene	91	20.261	20.261	(0.965)	838455		50.0000	46.7
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	850880		50.0000	49.4
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	924626		50.0000	48.1
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1226285		50.0000	48.4
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	920488		50.0000	50.2
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	510958		50.0000	48.6
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	355370		50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	500558		50.0000	48.7
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1039550		50.0000	49.0
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	536086		50.0000	50.8
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	71338		50.0000	53.6
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	354802		50.0000	53.6
109 Hexachlorobutadiene	225	23.530	23.530	(1.121)	180766		50.0000	50.9
110 Naphthalene	128	23.743	23.743	(1.131)	863467		50.0000	52.0
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	319648		50.0000	52.2

Data File: /chem/V0A7.1/030910v7/76202.d
 Date: 09-MAR-2010 10:30
 Client ID: VSTD050
 Sample Info: 1M7VH100309-01|BFB/CCV11|V0A7.1.1
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V0A7.1
 Operator: RX01
 Column diameter: 0.25

/chem/V0A7.1/030910v7/76202.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 09-MAR-2010 12:11
Lab File ID: 7c205.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100309-04 Quant Type: ISTD
Method: /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
11 Acrolein	0.04808	0.06158	0.06158	0.001	28.08537	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.08810	0.08810	0.010	0.83676	30.00000	Averaged
20 Allyl chloride	0.47439	0.40462	0.40462	0.010	-14.70718	30.00000	Averaged
23 Acrylonitrile	0.13462	0.13370	0.13370	0.010	-0.68516	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.45742	0.45742	0.010	12.10266	30.00000	Averaged
35 Propionitrile	0.05907	0.05121	0.05121	0.010	-13.29617	30.00000	Averaged
32 Ethyl acetate	0.40471	0.29817	0.29817	0.010	-26.32388	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.18968	0.18968	0.010	-22.67207	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.32415	0.32415	0.010	-22.66868	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01362	0.01362	0.005	-23.99259	40.00000	Averaged
54 Methyl methacrylate	0.21684	0.19930	0.19930	0.010	-8.08706	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.49598	0.49598	0.010	-13.34751	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00302	0.00302	0.001	-7.28457	40.00000	Averaged
60 2-Nitropropane	0.14035	0.12091	0.12091	0.010	-13.84760	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.36859	0.36859	0.010	-5.24785	30.00000	Averaged
85 Cyclohexanone	0.02826	0.07212	0.07212	0.010	155	40.00000	Averaged<-
88 trans-1,4-Dichloro-2-butene	0.35107	0.32911	0.32911	0.010	-6.25349	30.00000	Averaged
97 Pentachloroethane	0.28176	0.43486	0.43486	0.010	54.33977	30.00000	Averaged<-
103 Benzyl chloride	1.23904	1.48258	1.48258	0.010	19.65501	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.56518	0.56518	0.010	-19.20367	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.37024	0.37024	0.010	-14.29477	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.56196	1.56196	0.010	-4.01776	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.31523	1.27028	1.27028	0.010	-3.41756	30.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	7.73966
Maximun 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/030910v7/7c205.d

Lab Smp Id: W7VM100309-04

Client Smp ID: VSTD250S

Inj Date : 09-MAR-2010 12:11

Operator : AX01

Inst ID: VOA7.i

Smp Info : |W7VM100309-04|SHORT/SLCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100215-08B

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 10-Mar-2010 11:40 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.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)
						ON-COL (ug/l)
11 Acrolein	56	10.017	10.017	(0.654)	400388	250.000
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	572780	250.000
20 Allyl chloride	41	11.185	11.185	(0.730)	2630751	250.000
23 Acrylonitrile	53	11.926	11.926	(0.779)	869252	250.000
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	594798	50.0000
35 Propionitrile	54	13.804	13.804	(0.901)	332974	250.000
32 Ethyl acetate	43	13.804	13.804	(0.901)	1938640	250.000
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1233259	250.000
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	714367	250.000
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	885306	2500.00
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1295796	250.000
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	2262753	250.000
57 1,4-Dioxane	88	16.159	16.159	(1.055)	196458	2500.00
60 2-Nitropropane	43	16.555	16.555	(1.081)	786150	250.000
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	812306	250.000
85 Cyclohexanone	55	19.773	19.773	(1.059)	1645233	1250.00

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ug/l)	(ug/l)	
=====	=====	==	=====	=====	=====	=====	=====	
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.950)	725312	250.000	234	
97 Pentachloroethane	167	20.596	20.596	(0.982)	958366	250.000	386(A)	
103 Benzyl chloride	91	21.124	21.124	(1.007)	3267375	250.000	299	
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1245561	250.000	202	
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1300346	50.0000		
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	912440	50.0000		
* 101 1,4-Dichlorobenzene-d4	152	20.981	20.992	(1.000)	440769	50.0000		
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	481436	50.0000	42.8	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1425198	50.0000	48.0	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	559902	50.0000	48.3	

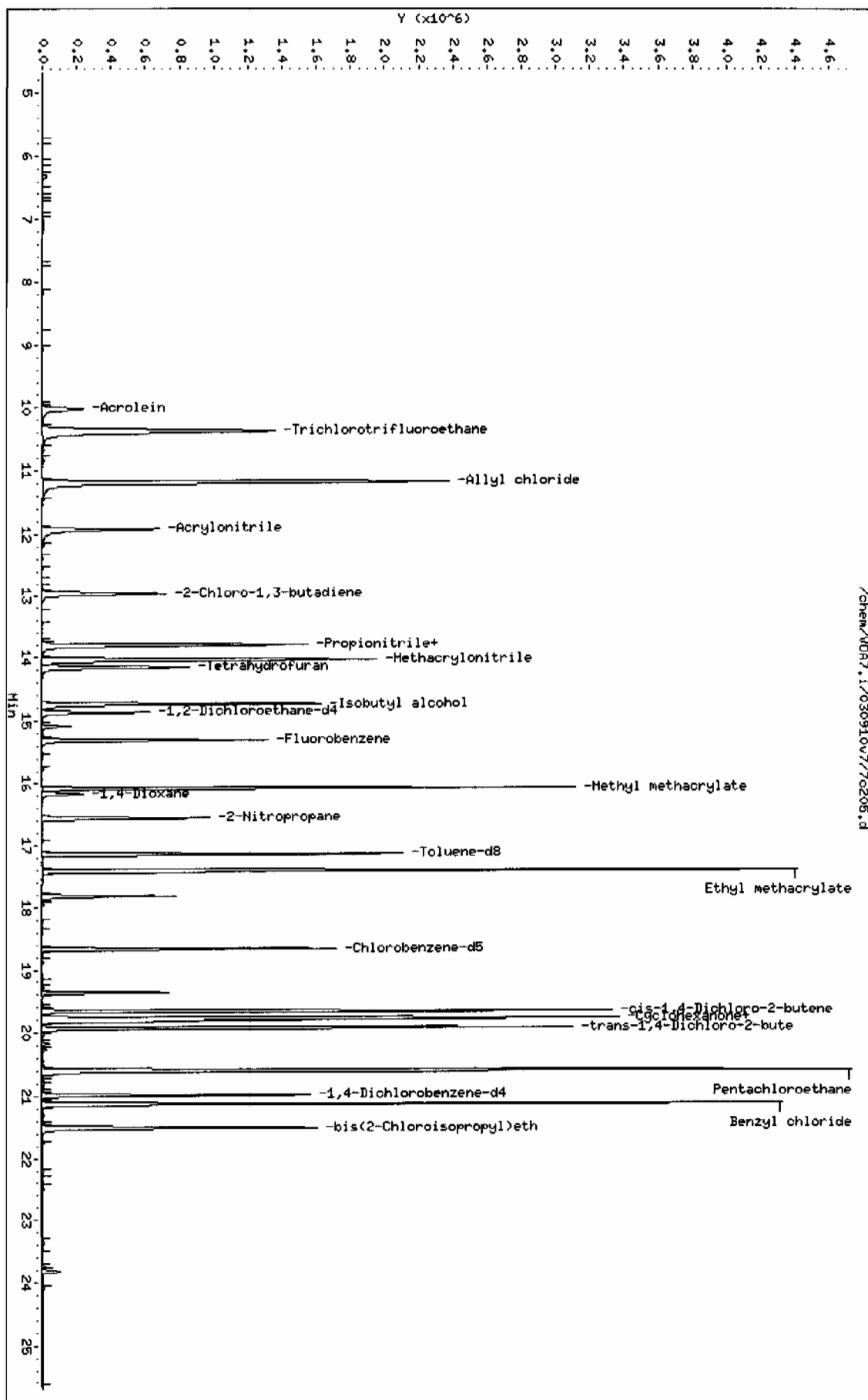
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/007.1/030910v7/70205.d
 Date : 09-MAR-2010 12:11
 Client ID: VSTD2605
 Sample Info: 147VH100309-041SHORT/SLCS11V06F11
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: 007.1
 Operator: AXD1
 Column diameter: 0.25

/chem/007.1/030910v7/70205.d



QC Data

Data File: /chem/V0A7.i/021710v7/7z309,d

Page 1

Date : 17-FEB-2010 15:29

Client ID: BFB01

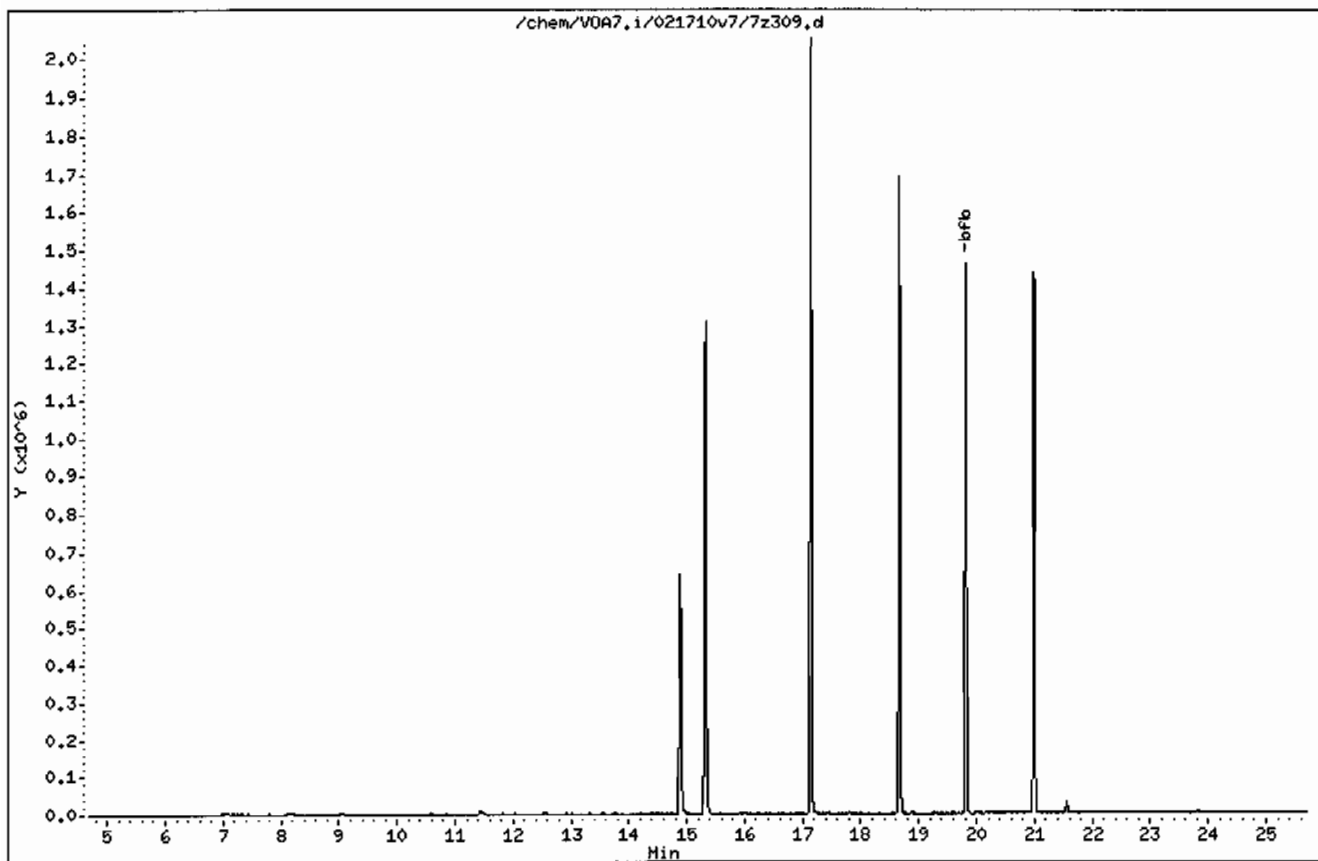
Instrument: V0A7.i

Sample Info: I120200-----IRINSEI1IV0AF11I

Operator: CDS1

Column phase: db624

Column diameter: 0,25



Date : 17-FEB-2010 15:29

Client ID: BFB01

Instrument: V0A7.1

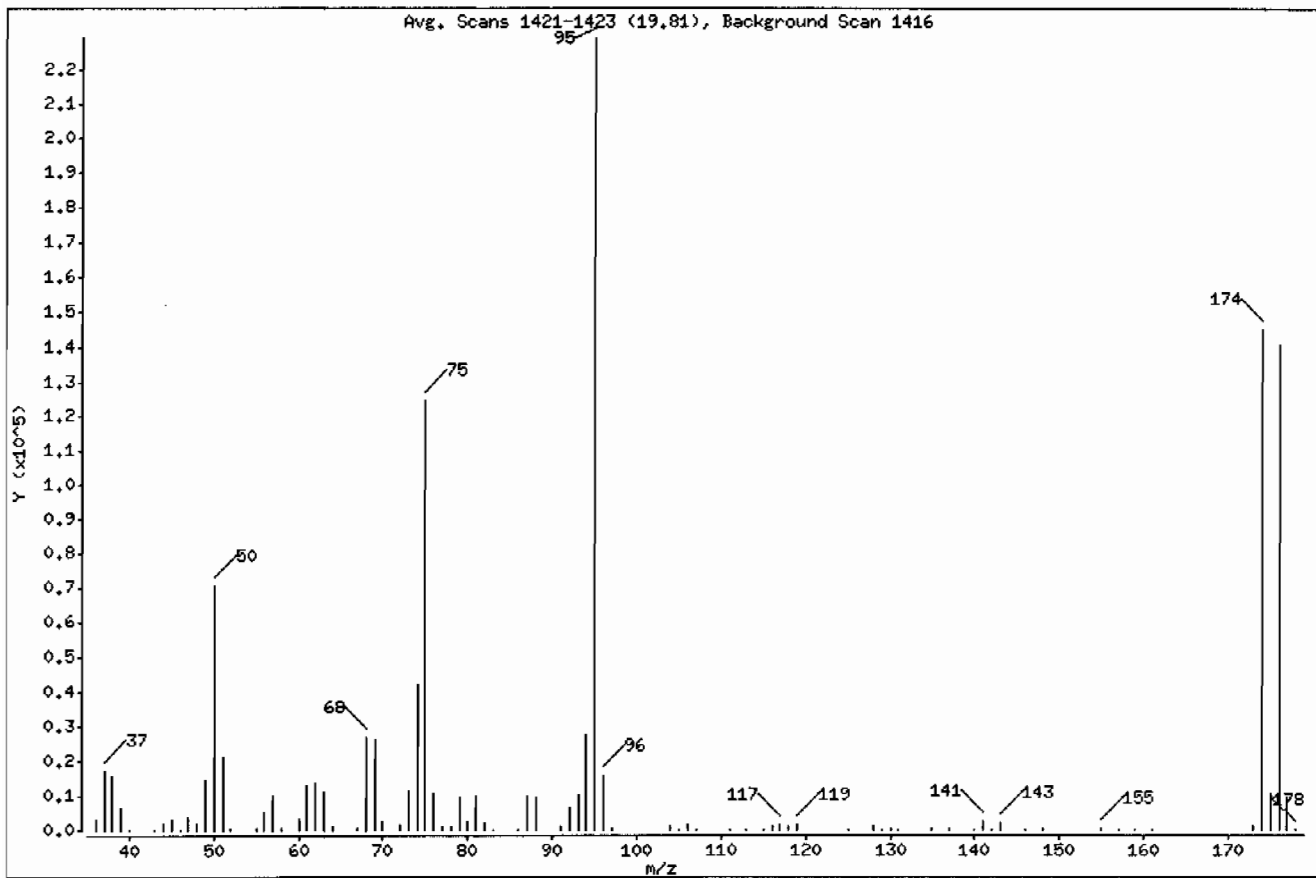
Sample Info: I120200-----IRINSEI1V0AF11I

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	30.76
75	30.00 - 60.00% of mass 95	54.23
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.36 (0.57)
174	50.00 - 100.00% of mass 95	63.04
175	5.00 - 9.00% of mass 174	4.53 (7.18)
176	95.00 - 101.00% of mass 174	61.26 (97.17)
177	5.00 - 9.00% of mass 176	4.24 (6.92)

Date : 17-FEB-2010 15:29

Client ID: BFB01

Instrument: VOA7.i

Sample Info: I120200-----IRINSEI11VOAFI11

Operator: CDS1

Column phase: db624

Column diameter: 0,25

Data File: 7z309.d

Spectrum: Avg. Scans 1421-1423 (19.81), Background Scan 1416

Location of Maximum: 95.00

Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3286	63.00	11103	92.00	6546	135.00	493
37.00	17472	64.00	947	93.00	9939	137.00	490
38.00	16055	67.00	680	94.00	27256	140.00	87
39.00	6161	68.00	26752	95.00	229440	141.00	2431
40.00	202	69.00	26480	96.00	16004	142.00	224
43.00	96	70.00	2378	97.00	507	143.00	2362
44.00	2000	72.00	1351	104.00	1056	146.00	133
45.00	3186	73.00	11623	105.00	224	148.00	278
46.00	155	74.00	42264	106.00	1400	155.00	331
47.00	3534	75.00	124432	107.00	195	157.00	97
48.00	1953	76.00	10309	111.00	126	159.00	99
49.00	14857	77.00	1286	113.00	145	161.00	134
50.00	70568	78.00	973	115.00	130	173.00	824
51.00	20904	79.00	9389	116.00	905	174.00	144640
52.00	786	80.00	2629	117.00	1450	175.00	10392
55.00	762	81.00	10002	118.00	842	176.00	140544
56.00	5200	82.00	2048	119.00	1357	177.00	9727
57.00	9767	83.00	119	125.00	98	178.00	196
58.00	507	86.00	242	128.00	824		
60.00	2962	87.00	10165	129.00	258		
61.00	13385	88.00	9659	130.00	689		
62.00	13596	91.00	822	131.00	232		

Data File: /chem/VOA7.i/030610v7/7b602BFB.d

Page 1

Date : 06-MAR-2010 12:41

Client ID: BFB01

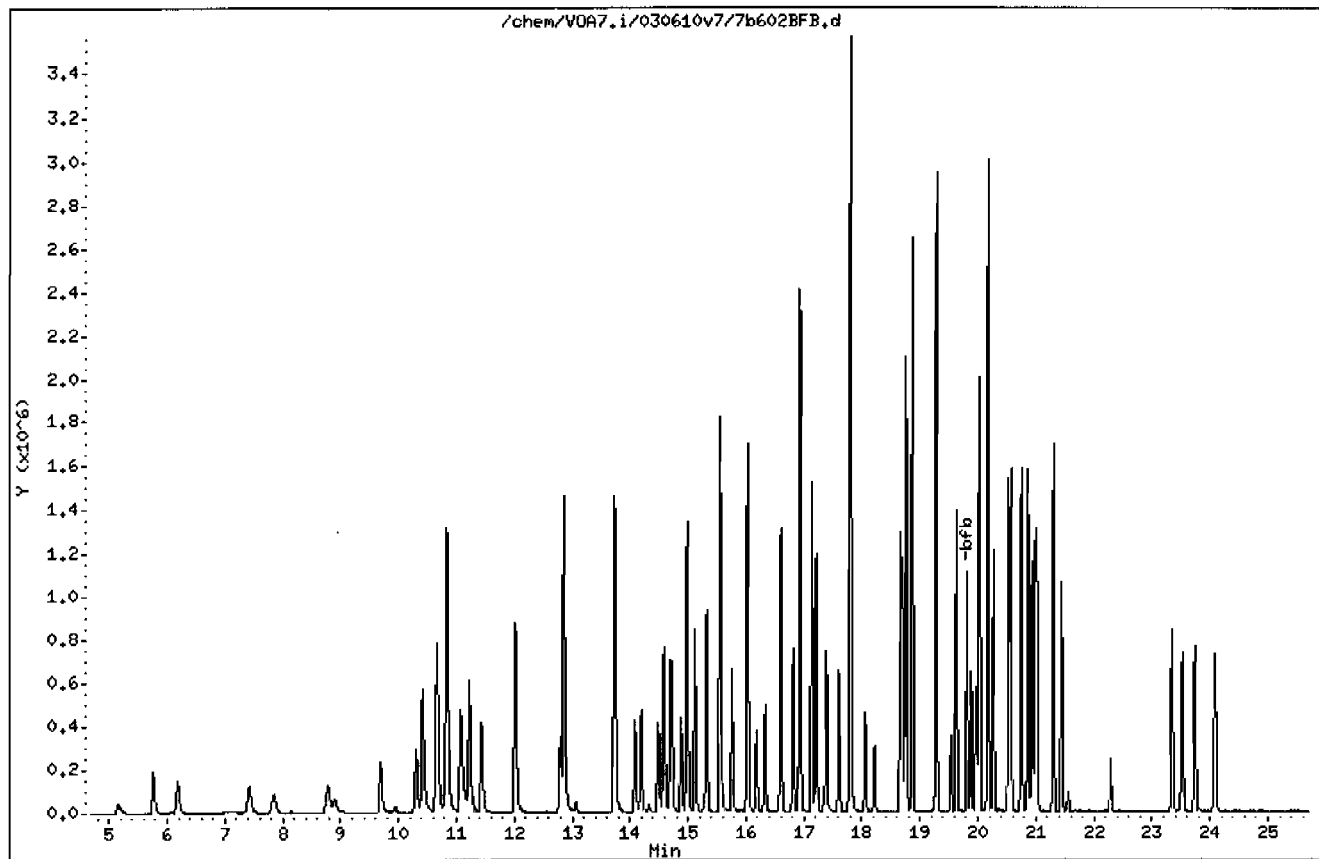
Instrument: VOA7.i

Sample Info: IW7VM100306-01|BFB/CCV11|VOAF11|

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 06-MAR-2010 12:41

Client ID: BFB01

Instrument: VOA7.i

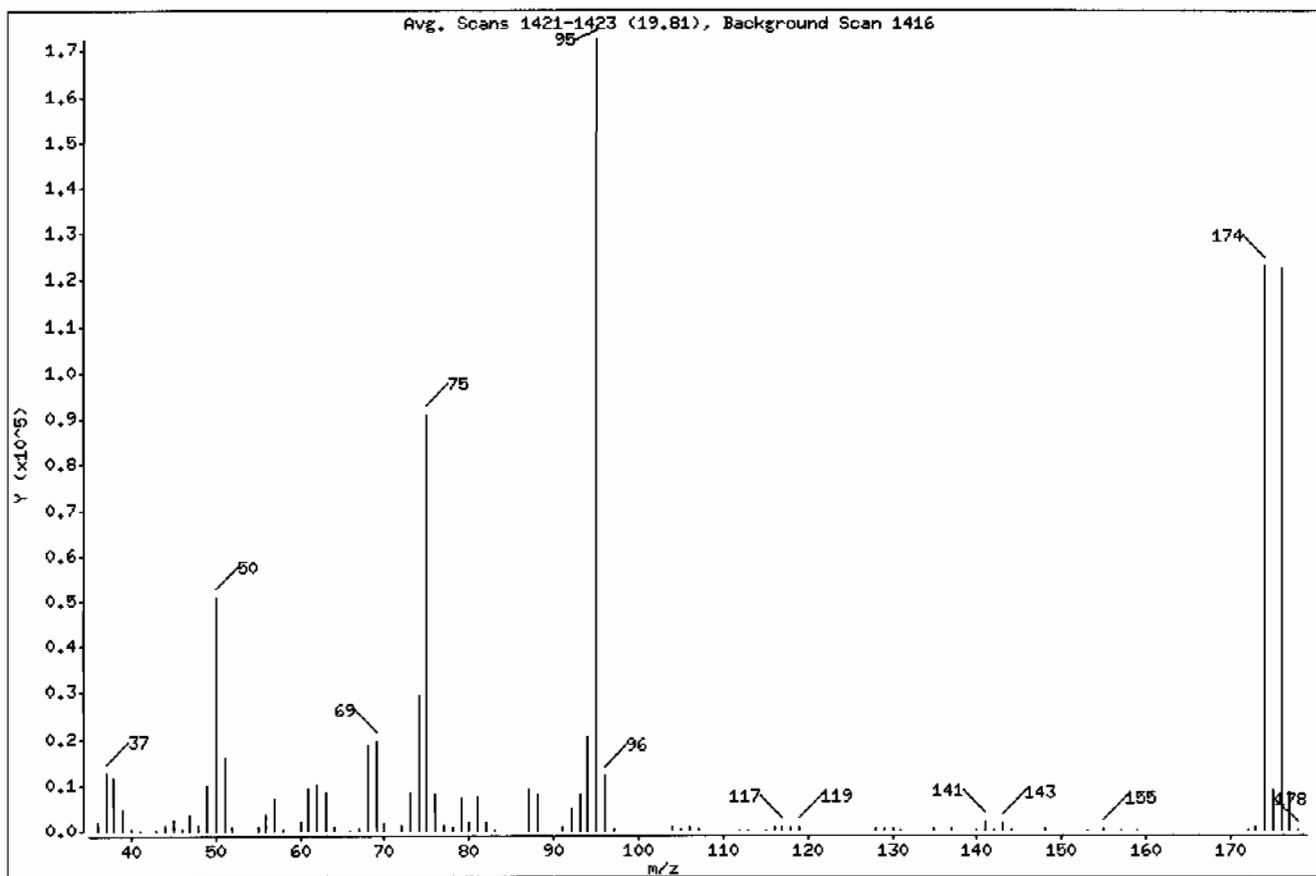
Sample Info: 1W7VM100306-01BFB/CCV111VOAF11

Operator: AX01

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	29.38
75	30.00 - 60.00% of mass 95	52.74
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 100.00% of mass 95	71.11
175	5.00 - 9.00% of mass 174	5.12 (7.21)
176	95.00 - 101.00% of mass 174	70.73 (99.48)
177	5.00 - 9.00% of mass 176	4.81 (6.80)

Date : 06-MAR-2010 12:41

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7VM100306-01|BFB/CCV11|VOAF11|

Operator: AXD1

Column phase: db624

Column diameter: 0,25

Data File: 7b602BFB.d

Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416

Location of Maximum: 95.00

Number of points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1965	62.00	9754	91.00	779	135.00	382
37.00	12701	63.00	8262	92.00	4617	137.00	269
38.00	11623	64.00	729	93.00	7895	140.00	106
39.00	4580	66.00	111	94.00	20080	141.00	1939
40.00	247	67.00	532	95.00	172544	142.00	113
41.00	89	68.00	18736	96.00	11719	143.00	1750
43.00	93	69.00	19328	97.00	452	144.00	86
44.00	1328	70.00	1722	104.00	826	148.00	468
45.00	2381	72.00	1173	105.00	265	153.00	92
46.00	302	73.00	8302	106.00	868	155.00	229
47.00	3615	74.00	29296	107.00	201	157.00	130
48.00	1344	75.00	91000	112.00	112	159.00	90
49.00	10047	76.00	8102	113.00	124	172.00	83
50.00	50688	77.00	999	115.00	102	173.00	856
51.00	15788	78.00	866	116.00	713	174.00	122688
52.00	867	79.00	7127	117.00	842	175.00	8841
55.00	719	80.00	1904	118.00	618	176.00	122048
56.00	3672	81.00	7489	119.00	910	177.00	8301
57.00	7105	82.00	2153	128.00	538	178.00	93
58.00	345	83.00	91	129.00	226		
60.00	2048	87.00	8997	130.00	418		
61.00	9199	88.00	7813	131.00	189		

Data File: /chem/VOA7,i/030610v7/7b624BFB.d

Page 1

Date : 07-MAR-2010 01:12

Client ID: BFB01

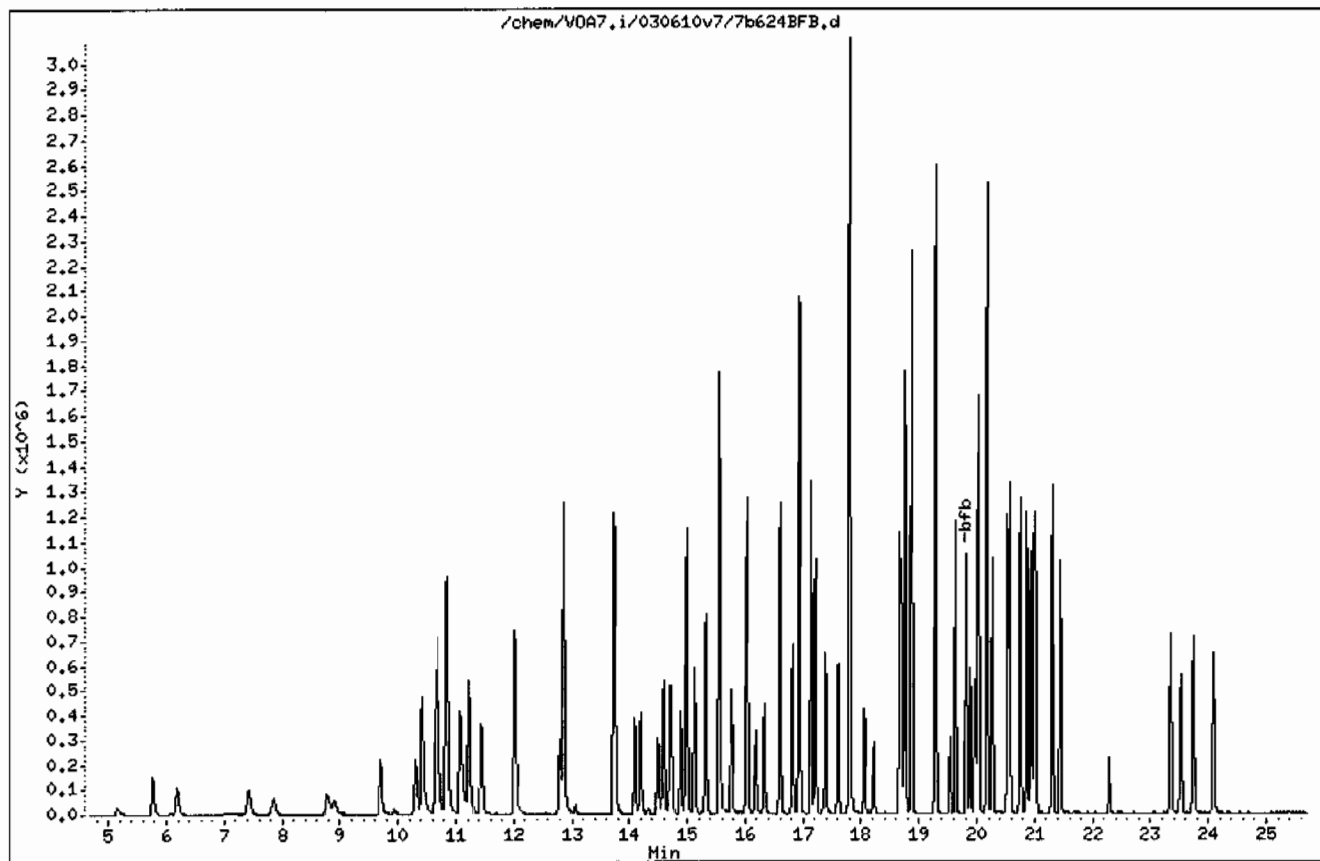
Instrument: VOA7.i

Sample Info: IW7VM100306-05IBFB/CCV/LCSI11VOAF11I

Operator: AXD1

Column phase: db624

Column diameter: 0.25



Date : 07-MAR-2010 01:12

Client ID: BFB01

Instrument: VOA7.i

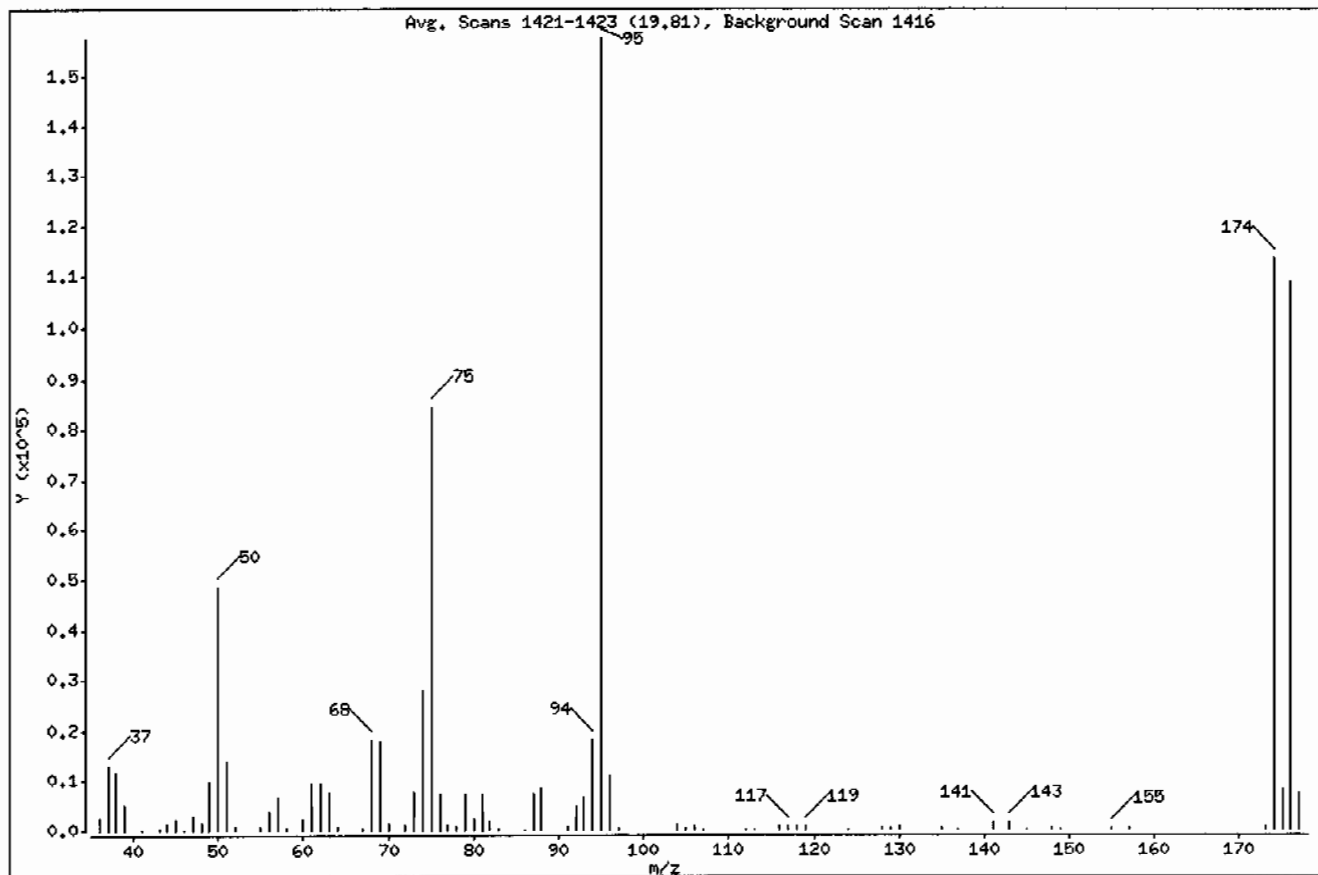
Sample Info: IW7VM100306-051BFB/CCV/LCS111VOAF111

Operator: AX01

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	30.73
75	30.00 - 60.00% of mass 95	53.58
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.37 (0.51)
174	50.00 - 100.00% of mass 95	71.88
175	5.00 - 9.00% of mass 174	5.15 (7.16)
176	95.00 - 101.00% of mass 174	69.04 (96.05)
177	5.00 - 9.00% of mass 176	4.61 (6.68)

Date : 07-MAR-2010 01:12

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7VH100306-051BFB/CCV/LCSI11VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0,25

Data File: 7b624BFB.d

Spectrum: Avg. Scans 1421-1423 (19,81), Background Scan 1416

Location of Maximum: 95,00

Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	2423	61,00	9276	86,00	115	124,00	98
37,00	12994	62,00	9594	87,00	7259	128,00	433
38,00	11544	63,00	7772	88,00	8171	129,00	239
39,00	4903	64,00	775	91,00	648	130,00	581
41,00	86	67,00	417	92,00	4548	135,00	359
43,00	239	68,00	18032	93,00	6385	137,00	114
44,00	1274	69,00	17728	94,00	18248	141,00	1502
45,00	2163	70,00	1541	95,00	157632	143,00	1551
46,00	101	72,00	923	96,00	10734	145,00	155
47,00	2940	73,00	7559	97,00	374	148,00	335
48,00	1347	74,00	27776	104,00	1002	149,00	86
49,00	9936	75,00	84464	105,00	220	155,00	240
50,00	48440	76,00	7235	106,00	843	157,00	207
51,00	13866	77,00	1059	107,00	101	173,00	577
52,00	676	78,00	781	112,00	86	174,00	113312
55,00	772	79,00	7191	113,00	102	175,00	8117
56,00	3783	80,00	2191	116,00	672	176,00	108832
57,00	6669	81,00	7400	117,00	901	177,00	7266
58,00	372	82,00	1872	118,00	658		
60,00	2065	83,00	383	119,00	709		

Data File: /chem/V0A7.i/030910v7/7c202BFB.d

Page 1

Date : 09-MAR-2010 10:30

Client ID: BFB01

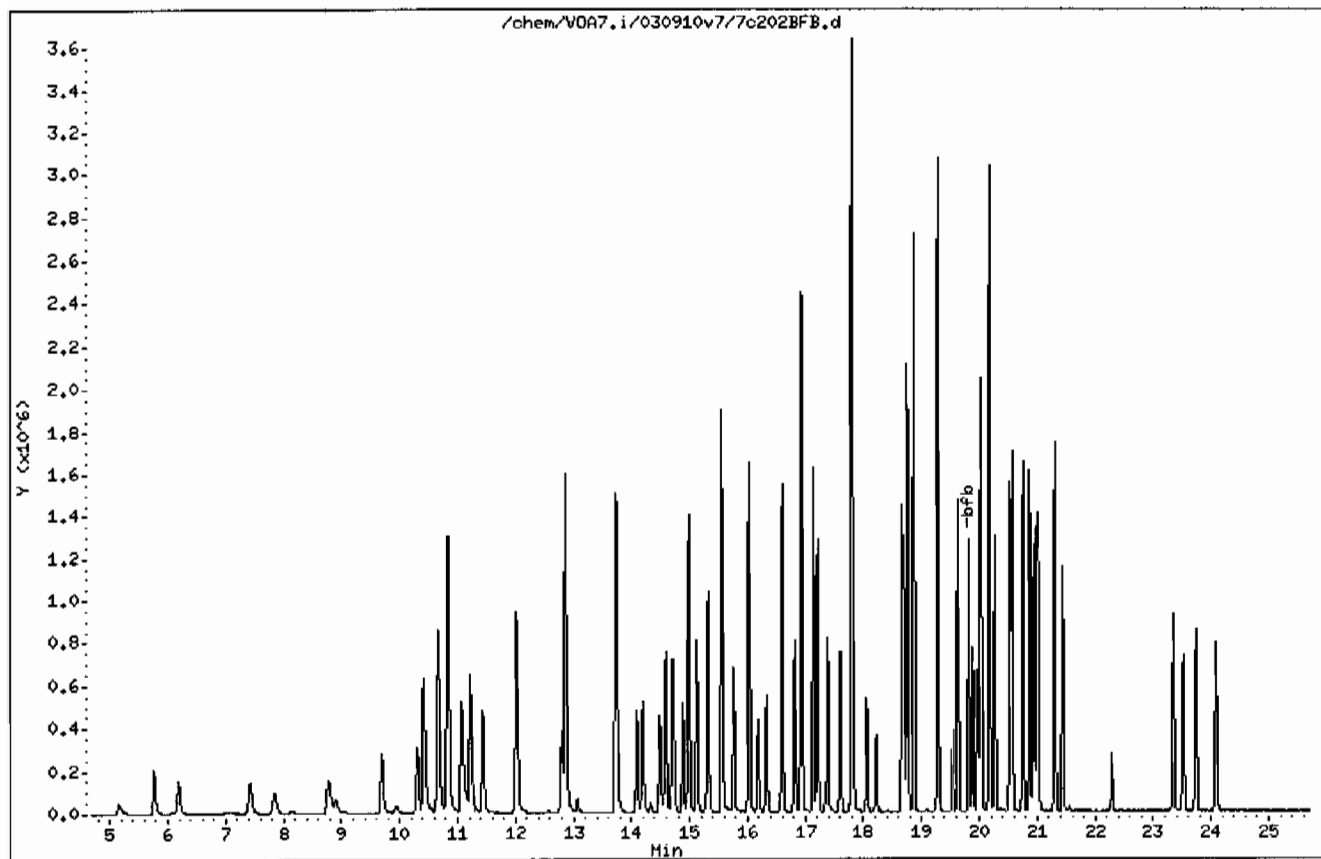
Instrument: V0A7.i

Sample Info: IW7VM100309-01BFB/CCV111V0AF111

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 09-MAR-2010 10:30

Client ID: BFB01

Instrument: VOA7.i

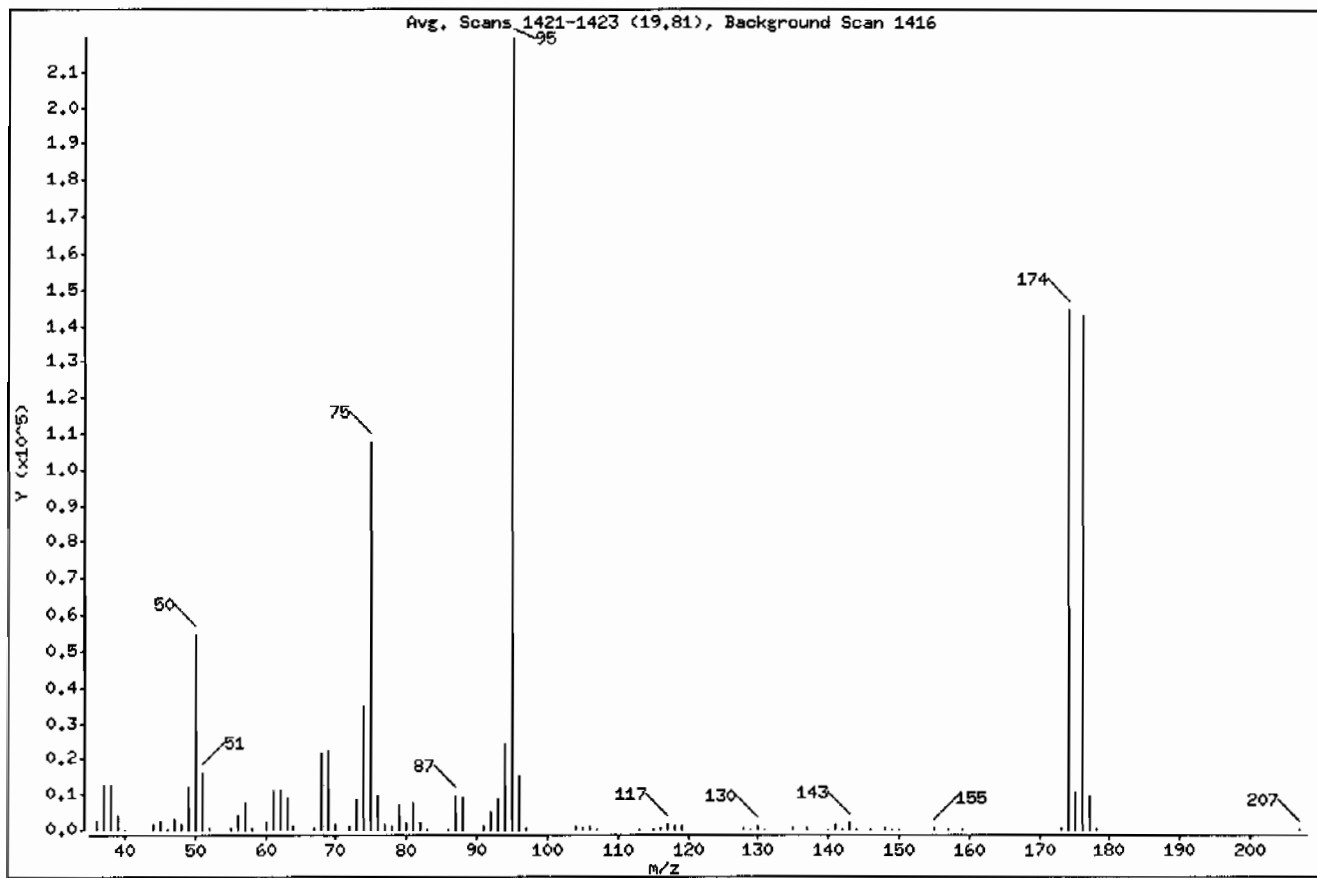
Sample Info: IW7VM100309-011BFB/CCVI11VOAF11

Operator: AX01

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	24.76
75	30.00 - 60.00% of mass 95	49.03
96	5.00 - 9.00% of mass 95	6.84
173	Less than 2.00% of mass 174	0.32 (0.49)
174	50.00 - 100.00% of mass 95	65.86
175	5.00 - 9.00% of mass 174	4.74 (7.19)
176	95.00 - 101.00% of mass 174	65.04 (98.76)
177	5.00 - 9.00% of mass 176	4.36 (6.70)

Date : 09-MAR-2010 10:30

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7VH100309-01|BFB/CCV11|VOAF11|

Operator: AX01

Column phase: db624

Column diameter: 0.25

Data File: 7c202BFB.d

Spectrum: Avg. Scans 1421-1423 (19.81), Background Scan 1416

Location of Maximum: 95.00

Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2380	64.00	762	93.00	8679	141.00	1716
37.00	12448	67.00	558	94.00	24216	142.00	94
38.00	12400	68.00	21952	95.00	219520	143.00	1898
39.00	4158	69.00	22016	96.00	15007	144.00	99
40.00	81	70.00	1705	97.00	634	146.00	113
44.00	1309	72.00	996	104.00	1090	148.00	368
45.00	2685	73.00	8341	105.00	255	149.00	98
46.00	217	74.00	34784	106.00	985	150.00	91
47.00	3137	75.00	107624	107.00	149	155.00	338
48.00	1447	76.00	9498	113.00	116	157.00	127
49.00	11890	77.00	1372	115.00	143	159.00	100
50.00	54344	78.00	903	116.00	710	173.00	710
51.00	16235	79.00	7176	117.00	1321	174.00	144576
52.00	560	80.00	2092	118.00	804	175.00	10399
55.00	718	81.00	7471	119.00	1171	176.00	142784
56.00	3995	82.00	1769	128.00	746	177.00	9565
57.00	7596	83.00	95	129.00	245	178.00	263
58.00	445	86.00	118	130.00	781	207.00	88
60.00	2168	87.00	9839	131.00	222		
61.00	10737	88.00	9190	135.00	389		
62.00	10981	91.00	786	137.00	429		
63.00	8845	92.00	5271	140.00	168		

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063555

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: MB for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/06/2010 16:19

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 11:30

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b608LL.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: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063555

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: MB for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/06/2010 16:19

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 11:30

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b608LL.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
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	5.11	ug/kg		J

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030610v7/7b608LL.d
Lab Smp Id: 1202063555 Client Smp ID: BLANK
Inj Date : 06-MAR-2010 16:19
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202063555|962059|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m
Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 8 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	RESPONSE	ON-COLUMN FINAL
						(ug/l)	(ug/Kg)
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.972)	427117	47.8634	47.9
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1032858	50.0000	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1141309	51.7937	51.8
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	677043	50.0000	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	411345	48.3348	48.3
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	323529	50.0000	

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b608LL.d

Lab Smp Id: 1202063555

Client Smp ID: BLANK

Inj Date : 06-MAR-2010 16:19

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063555|962059|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 8

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)

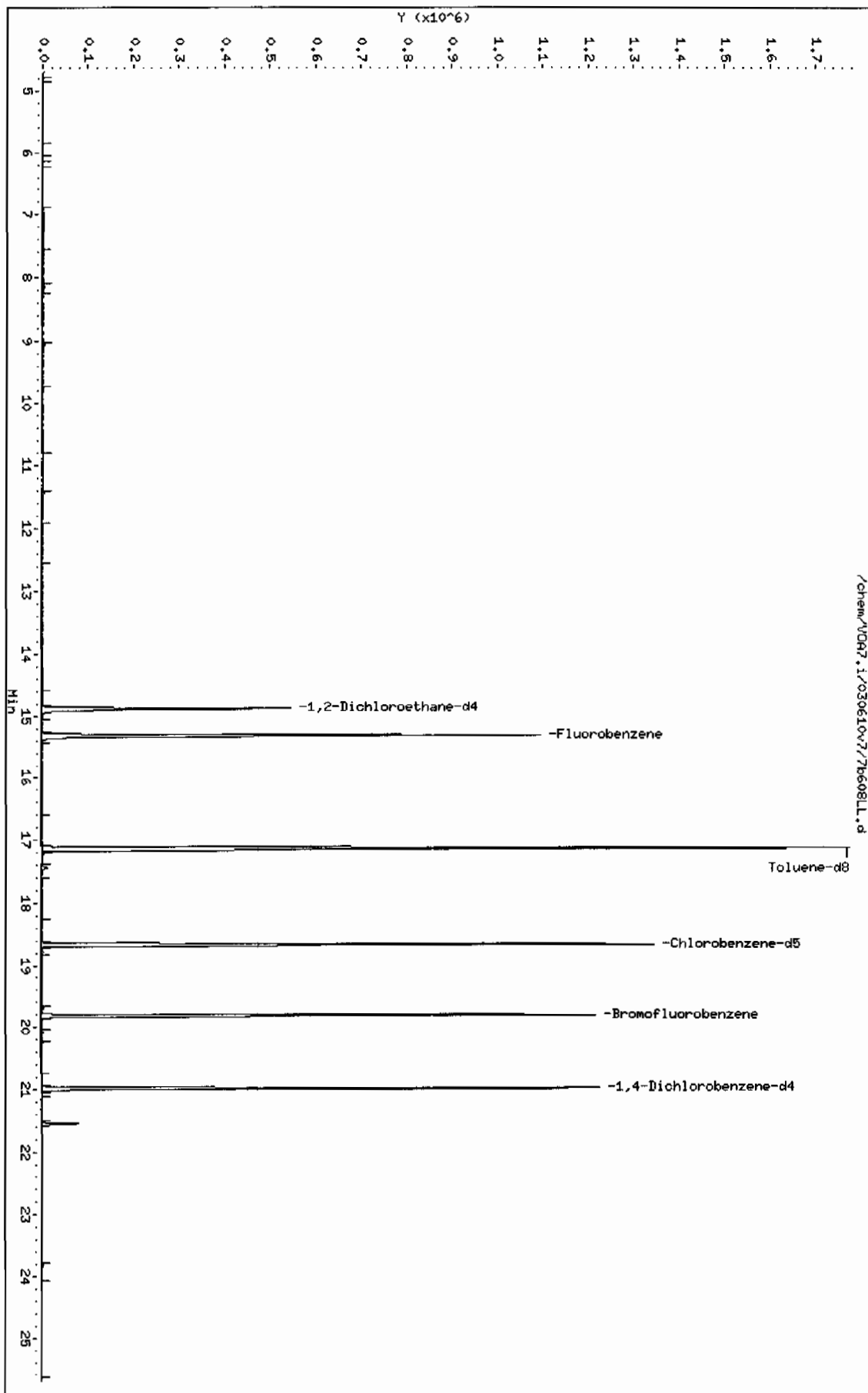
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 101 1,4-Dichlorobenzene-d4	20.992	2241039	50.000

CONCENTRATIONS				QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY
=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane				CAS #:		
21.550	229003	5.10930386	5.1	0		0 101

Data File: /chem/V097.i/030610v7/7b608LL.d
Date : 06-MAR-2010 16:19
Client ID: BLANK
Sample Info: 11202063555196205911.V097.i1
Column phase: DB-624

Instrument: V097.i
Operator: AX01
Column diameter: 0.25



Date : 06-MAR-2010 16:19

Client ID: BLANK

Instrument: V0A7.i

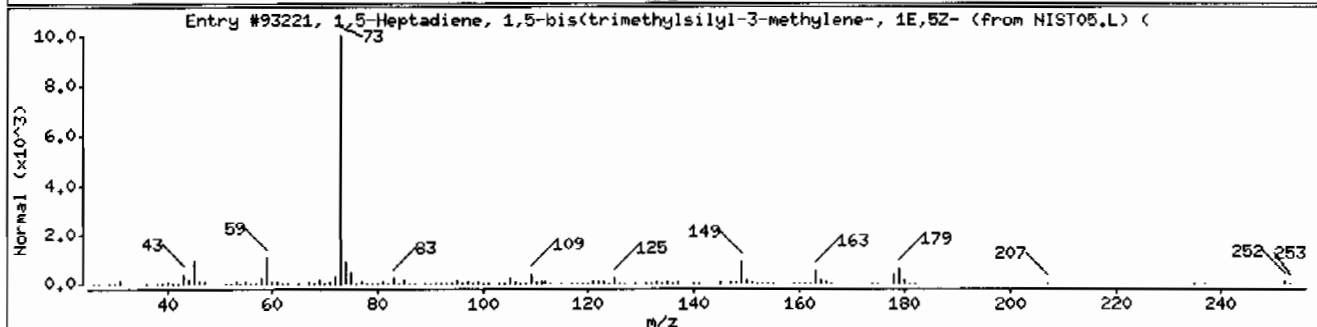
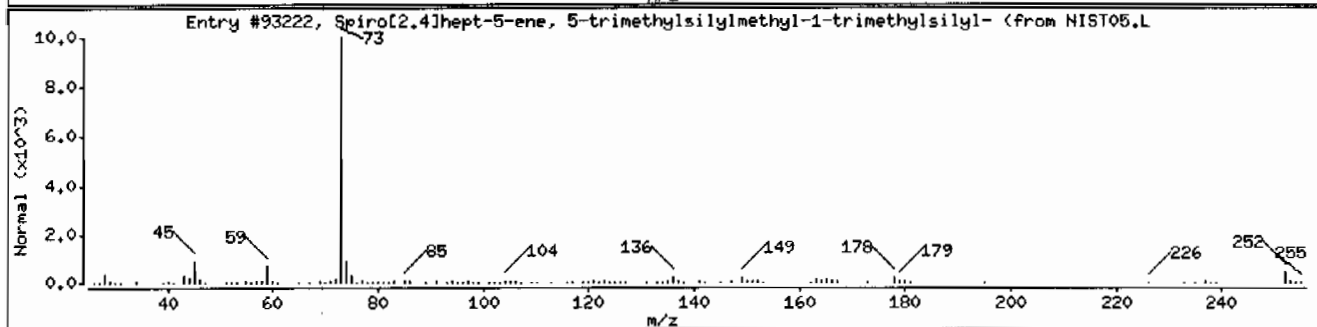
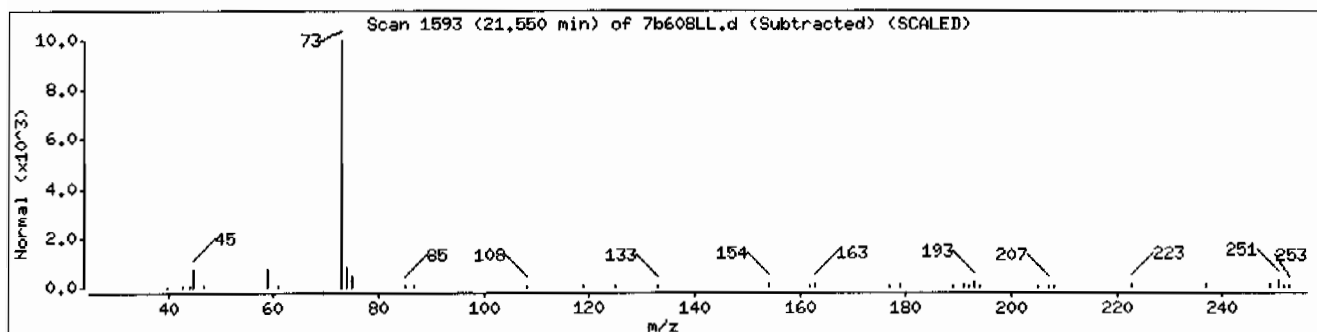
Sample Info: I1202063555196205911V0AF111

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	47	C ₁₄ H ₂₈ Si ₂	252
1,5-Heptadiene, 1,5-bis(trimethylsilyl)-3	1000153-97-1	NIST05.L	93221	37	C ₁₄ H ₂₈ Si ₂	252



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121		Matrix: SOIL
Lab Sample ID: 1202078255		
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: MB for batch 962058	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 02:53	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/06/2010 18:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b627LA.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: 10-2121		Matrix: SOIL
Lab Sample ID: 1202078255		
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: MB for batch 962058	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/07/2010 02:53	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/06/2010 18:00	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b627LA.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				ug/kg		

Data File: /chem/VOA7.i/030610v7/7b627LA.d
 Report Date: 25-Mar-2010 13:47

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b627LA.d
 Lab Smp Id: 1202078255 Client Smp ID: BLANK
 Inj Date : 07-MAR-2010 02:53
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |1202078255|962059|1|VOAF|1|
 Misc Info : GEL 5g N/A
 Comment :
 Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
 Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 27 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	(0.972)	361049	48.2109	48.2
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	866799	50.0000	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	972576	50.6659	50.7
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	589790	50.0000	
85 Cyclohexanone	55	19.773	19.773	(1.059)	6860	20.5777	20.6(a)
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	361867	48.8773	48.9
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	281455	50.0000	

QC Flag Legend

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

Data File: /chem/VOA7.i/030610v7/7b627LA.d
Report Date: 25-Mar-2010 13:47

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b627LA.d

Lab Smp Id: 1202078255

Client Smp ID: BLANK

Inj Date : 07-MAR-2010 02:53

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202078255|962059|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Meth Date : 22-Mar-2010 20:41 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 27

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/030610v7/7b627LA.d

Date: 07-MAR-2010 02:53

Client ID: BLANK

Sample Info: 11202078255196205911.V0A7.11

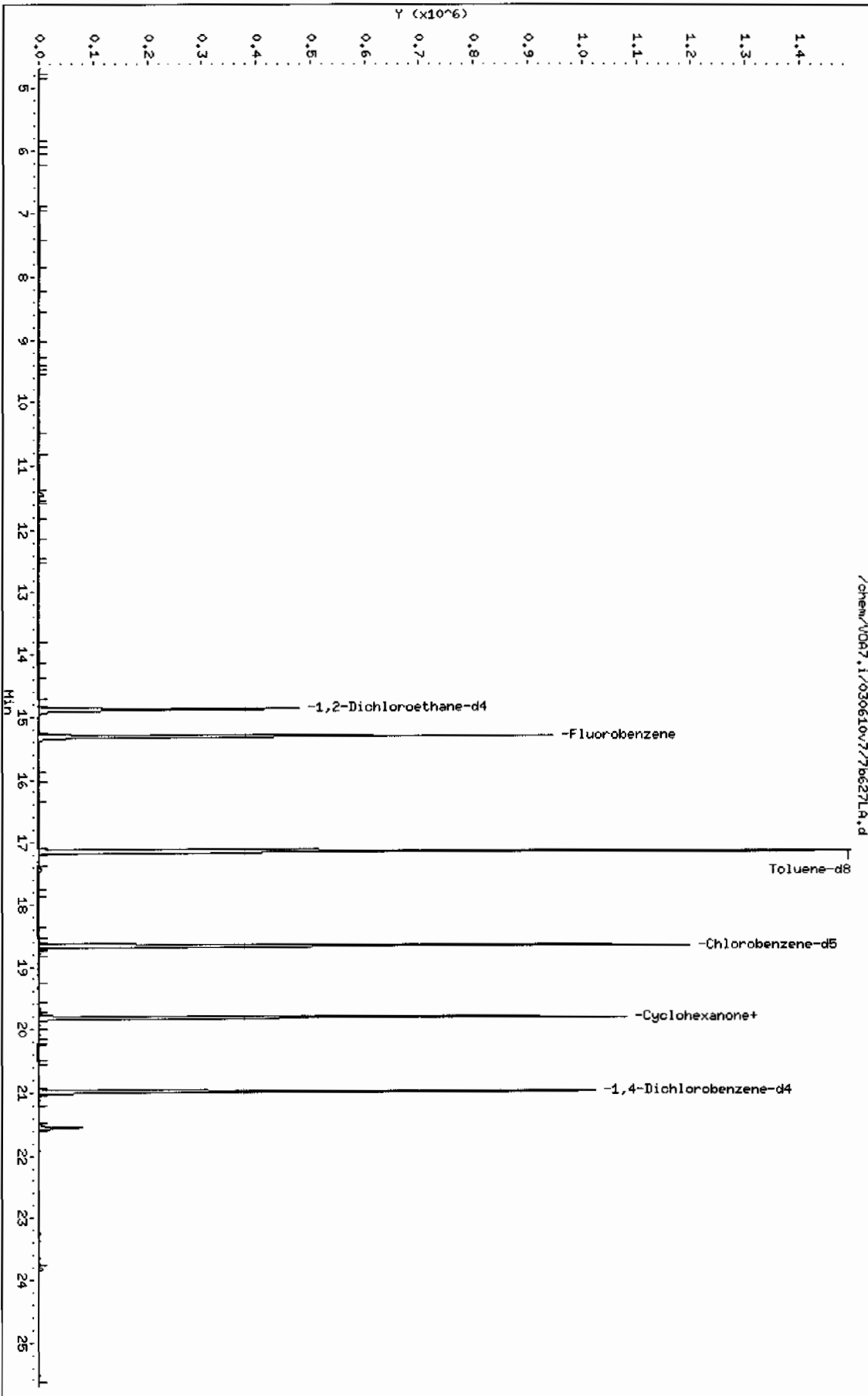
Column phase: DB-624

Instrument: V0A7.i

Operator: AX01

Column diameter: 0.25

Page 1



Date : 07-MAR-2010 02:53

Client ID: BLANK

Instrument: VOA7.i

Sample Info: I12020782551962059111VOAF111

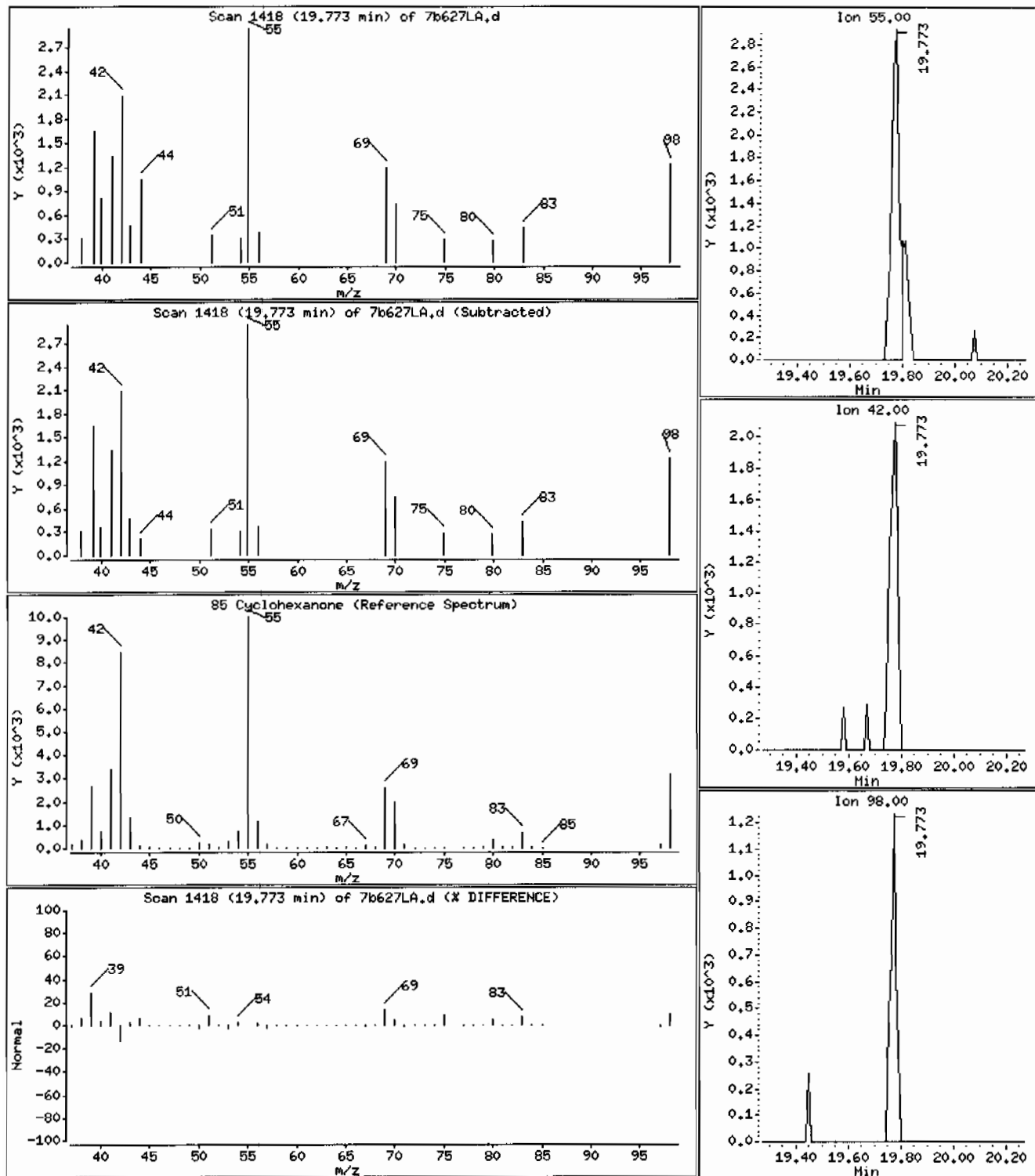
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

85 Cyclohexanone

Concentration: 20.6 ug/Kg



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078256

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: MB for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.1

Dilution: 1

Run Date: 03/09/2010 13:54

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c208LA.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: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078256

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: MB for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/09/2010 13:54

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c208LA.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
	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		

Data File: /chem/VOA7.i/030910v7/7c208LA.d
Report Date: 22-Mar-2010 20:53

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030910v7/7c208LA.d

Lab Smp Id: 1202078256

Client Smp ID: BLANK

Inj Date : 09-MAR-2010 13:54

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202078256|962059|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 8

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	(0.972)	483713	48.1775	48.2
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1162094	50.0000	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1260965	49.2166	49.2
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	787193	50.0000	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	506068	51.1560	51.2
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992	(1.000)	376079	50.0000	

Data File: /chem/VOA7.i/030910v7/7c208LA.d
Report Date: 22-Mar-2010 20:53

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030910v7/7c208LA.d

Lab Smp Id: 1202078256

Client Smp ID: BLANK

Inj Date : 09-MAR-2010 13:54

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202078256|962059|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 8

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/030910v7/70208LA.d

Date: 09-MAR-2010 13:54

Client ID: BLANK

Sample Info: 1120207826196205911V0AF11

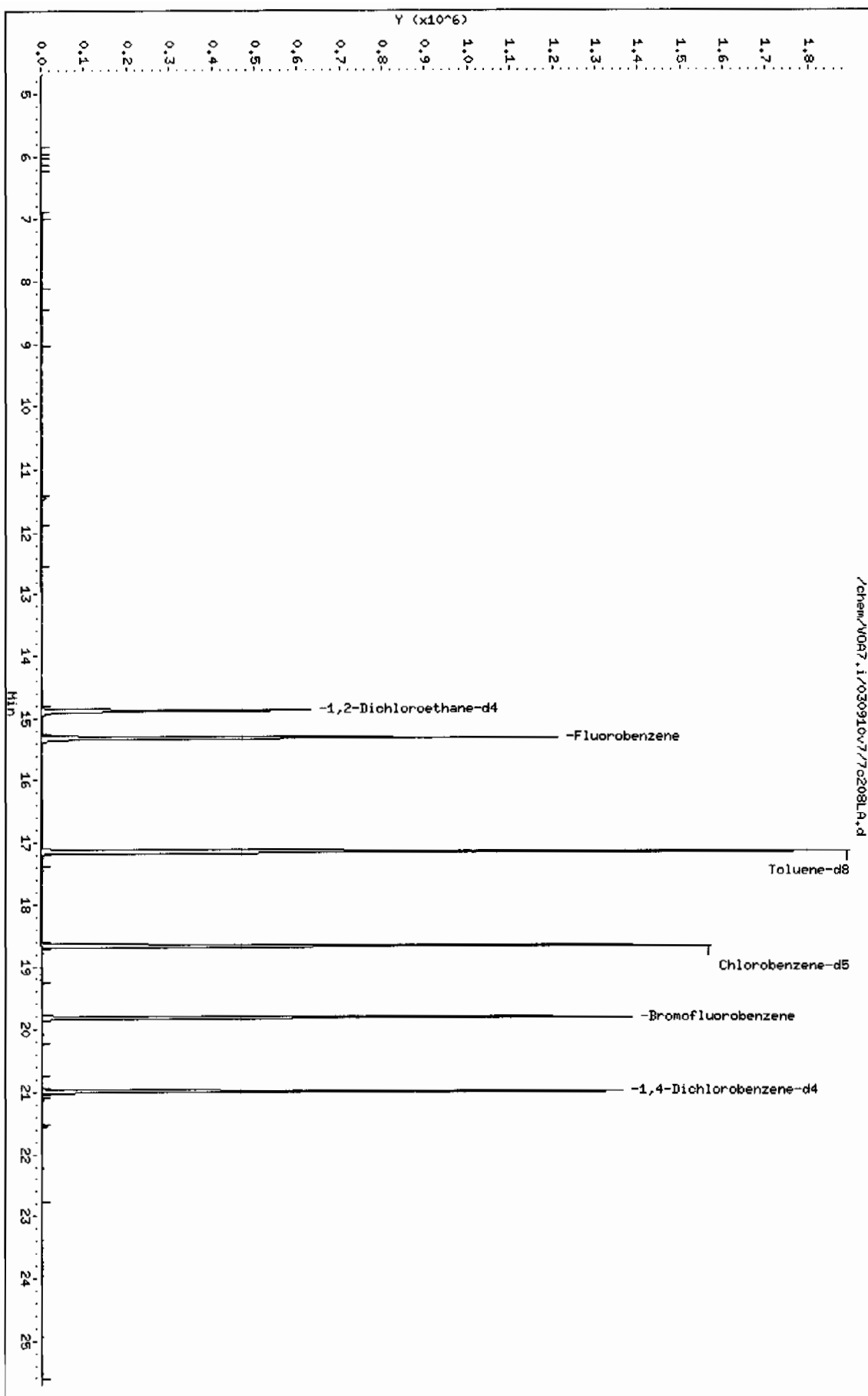
Column Phase: DB-624

Instrument: V0A7.i

Operator: RX01

Column diameter: 0.25

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063558

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.1

Dilution: 1

Run Date: 03/06/2010 14:06

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 11:30

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b604LL.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		49.1	ug/kg	0.340	1.00
74-87-3	Chloromethane		43.4	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		47.1	ug/kg	0.300	1.00
74-83-9	Bromomethane		46.8	ug/kg	0.300	1.00
75-00-3	Chloroethane		48.8	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		51.2	ug/kg	0.300	1.00
67-64-1	Acetone		206	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		48.6	ug/kg	0.300	1.00
74-88-4	Iodomethane		229	ug/kg	1.60	5.00
75-09-2	Methylene chloride		42.4	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		245	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		45.2	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		46.5	ug/kg	0.300	1.00
78-93-3	2-Butanone		204	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		43.0	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		50.3	ug/kg	0.300	1.00
67-66-3	Chloroform		43.4	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		43.1	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		48.7	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		48.5	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		48.7	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		39.8	ug/kg	0.300	1.00
71-43-2	Benzene		44.8	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		47.0	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		44.1	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		44.2	ug/kg	0.300	1.00
74-95-3	Dibromomethane		44.6	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		227	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		46.7	ug/kg	0.300	1.00
108-88-3	Toluene		46.4	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		46.4	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		43.8	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	185	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		44.3	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		49.6	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		46.3	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		46.5	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		45.9	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
 Lab Sample ID: 1202063558
 Client Sample: QC for batch 962058
 Client ID: LCS for batch 962058
 Batch ID: 962059
 Run Date: 03/06/2010 14:06
 Prep Date: 03/06/2010 11:30
 Data File: 7b604LL.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		44.0	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		95.3	ug/kg	0.300	2.00
95-47-6	o-Xylene		48.2	ug/kg	0.300	1.00
100-42-5	Styrene		47.2	ug/kg	0.300	1.00
75-25-2	Bromoform		48.6	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		44.4	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		43.8	ug/kg	0.300	1.00
108-86-1	Bromobenzene		46.4	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		44.3	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		43.9	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		44.8	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		46.2	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		44.5	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		48.2	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		45.6	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		47.3	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		49.3	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		45.7	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		46.2	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		48.5	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		50.4	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		47.9	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		46.6	ug/kg	0.300	1.00

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b604LL.d

Lab Smp Id: 1202063558

Client Smp ID: LCS

Inj Date : 06-MAR-2010 14:06

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063558|962059|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01D/IVM100304-01

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 4

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			880981	94.7458	94.7
M	2 Xylenes (total)	106			1388738	143.445	143
M	3 1,2-Dichloroethylene (total)	96			897036	88.2602	88.3
	4 Dichlorodifluoromethane	85	5.147	5.148 (0.336)	157045	49.0509	49.0
	5 Chloromethane	50	5.771	5.757 (0.377)	417564	43.4136	43.4
	6 Vinyl chloride	62	6.187	6.188 (0.404)	402774	47.1460	47.1
	7 Bromomethane	94	7.418	7.419 (0.485)	227724	46.7530	46.8
	8 Chloroethane	64	7.855	7.835 (0.513)	213121	48.7783	48.8
	9 Trichlorofluoromethane	101	8.789	8.789 (0.574)	334744	51.1897	51.2
	10 Ethyl Ether	59	9.692	9.693 (0.633)	272797	44.8424	44.8
	13 Acetone	43	10.413	10.413 (0.680)	1419995	206.174	206
	14 1,1-Dichloroethylene	96	10.302	10.302 (0.673)	217413	48.6209	48.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
16 Iodomethane	142	10.657	10.667	(0.696)	1782139	228.710	229
17 Acetonitrile	41	11.063	11.073	(0.723)	1327296	1087.46	1090
18 Methyl acetate	43	11.215	11.215	(0.733)	1434662	225.256	225
19 Carbon disulfide	76	10.829	10.830	(0.708)	3851756	244.856	245
22 Methylene chloride	86	11.439	11.439	(0.747)	177986	42.3681	42.4
24 tert-Butyl methyl ether	73	12.007	12.017	(0.784)	737334	46.3598	46.4
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	427610	45.2330	45.2
26 Vinyl acetate	43	12.850	12.860	(0.839)	3549812	227.213	227
28 1,1-Dichloroethane	63	12.789	12.789	(0.836)	571632	46.4682	46.5
31 2-Butanone	43	13.713	13.713	(0.896)	1565106	203.749	204
33 cis-1,2-Dichloroethylene	61	13.723	13.733	(0.897)	469426	43.0272	43.0
34 2,2-Dichloropropane	77	13.743	13.743	(0.898)	257205	50.3342	50.3
37 Bromochloromethane	49	14.078	14.088	(0.920)	347391	43.0715	43.1
38 Chloroform	83	14.180	14.190	(0.926)	443940	43.3505	43.4
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	342373	48.7184	48.7
43 Cyclohexane	56	14.575	14.586	(0.952)	541842	47.4324	47.4
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	356811	48.4932	48.5
45 Carbon tetrachloride	117	14.718	14.718	(0.962)	272042	48.6500	48.6
\$ 46 1,2-Dichloroethane-d4	65	14.870	14.880	(0.971)	404400	45.5215	45.5
47 1,2-Dichloroethane	62	14.971	14.982	(0.978)	402083	39.7945	39.8
48 Benzene	78	14.982	14.982	(0.979)	1007610	44.8163	44.8
50 Cyclohexene	67	15.114	15.114	(0.987)	520100	49.1009	49.1
* 51 Fluorobenzene	96	15.306	15.317	(1.000)	1028235	50.0000	
52 n-Butyl alcohol	56	15.550	15.560	(1.016)	1502042	5617.39	5620
53 Trichloroethylene	95	15.763	15.763	(1.030)	256118	47.0158	47.0
55 Methylcyclohexane	83	16.027	16.027	(1.047)	484417	53.4687	53.5
56 1,2-Dichloropropane	63	16.027	16.037	(1.047)	330483	44.1423	44.1
58 Dibromomethane	93	16.179	16.180	(1.057)	180284	44.6423	44.6
59 Bromodichloromethane	83	16.332	16.332	(1.067)	354591	44.1617	44.2
61 2-Chloroethylvinyl ether	63	16.596	16.606	(1.084)	747339	256.362	256
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.099)	456435	46.6768	46.7
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	839259	227.443	227
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1148413	47.0595	47.0
65 Toluene	92	17.205	17.215	(0.922)	626534	46.4118	46.4
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	424546	46.4085	46.4
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	222700	43.7854	43.8
69 2-Hexanone	43	17.794	17.794	(0.953)	1893512	185.439	185 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	461565	44.2531	44.2
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	184917	49.5671	49.6
72 Dibromochloromethane	129	18.058	18.058	(0.967)	254098	46.3183	46.3
73 1,2-Dibromoethane	107	18.210	18.220	(0.976)	256421	46.4848	46.5
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	749792	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	637612	45.8857	45.9
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	229591	47.9469	47.9
78 Ethylbenzene	91	18.758	18.758	(1.005)	1109078	43.9710	44.0
79 m,p-Xylenes	106	18.870	18.870	(1.011)	904404	95.2791	95.3
80 o-Xylene	106	19.286	19.286	(1.033)	484334	48.1657	48.2

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====		=====		=====	=====	=====	=====	=====
81 Styrene		104	19.286	19.286	(1.033)	760709	47.2408	47.2
82 Bromoform		173	19.530	19.530	(0.930)	176695	48.5586	48.6
83 Isopropylbenzene		105	19.621	19.631	(0.935)	1100555	44.7939	44.8
\$ 86 Bromofluorobenzene		95	19.814	19.814	(0.944)	480757	48.1234	48.1
87 1,1,2,2-Tetrachloroethane		83	19.885	19.885	(0.947)	381407	44.3777	44.4
89 1,2,3-Trichloropropane		110	19.966	19.966	(0.951)	81958	43.8266	43.8
90 Bromobenzene		156	20.017	20.017	(0.954)	267195	46.4465	46.4
91 n-Propylbenzene		91	20.027	20.027	(0.954)	1383974	44.3069	44.3
92 1,3,5-Trimethylbenzene		105	20.169	20.169	(0.961)	937780	46.1913	46.2
93 2-Chlorotoluene		91	20.169	20.169	(0.961)	937856	43.8545	43.8
94 4-Chlorotoluene		91	20.260	20.261	(0.965)	853550	44.4634	44.5
95 tert-Butylbenzene		119	20.524	20.525	(0.978)	886795	48.2179	48.2
96 1,2,4-Trimethylbenzene		105	20.565	20.565	(0.980)	936126	45.5607	45.6
98 sec-Butylbenzene		105	20.748	20.748	(0.988)	1280778	47.2901	47.3
99 4-Isopropyltoluene		119	20.859	20.860	(0.994)	965177	49.3046	49.3
100 1,3-Dichlorobenzene		146	20.930	20.931	(0.997)	513104	45.6562	45.6
* 101 1,4-Dichlorobenzene-d4		152	20.991	20.992	(1.000)	379784	50.0000	
102 1,4-Dichlorobenzene		146	21.012	21.012	(1.001)	506614	46.1664	46.2
104 n-Butylbenzene		91	21.296	21.296	(1.014)	1099647	48.4897	48.5
105 1,2-Dichlorobenzene		146	21.438	21.438	(1.021)	525511	46.5519	46.6
107 1,2-Dibromo-3-chloropropane		157	22.291	22.291	(1.062)	71626	50.3987	50.4
108 1,2,4-Trichlorobenzene		180	23.357	23.357	(1.113)	349817	49.4632	49.5
109 Hexachlorobutadiene		225	23.529	23.529	(1.121)	186704	49.1693	49.2
110 Naphthalene		128	23.743	23.743	(1.131)	858874	48.3653	48.4
111 1,2,3-Trichlorobenzene		180	24.088	24.088	(1.147)	321313	49.1452	49.1

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/NOA7.i/030610v7/7b604LL.d

Date : 06-MAR-2010 14:06

Client ID: LCS

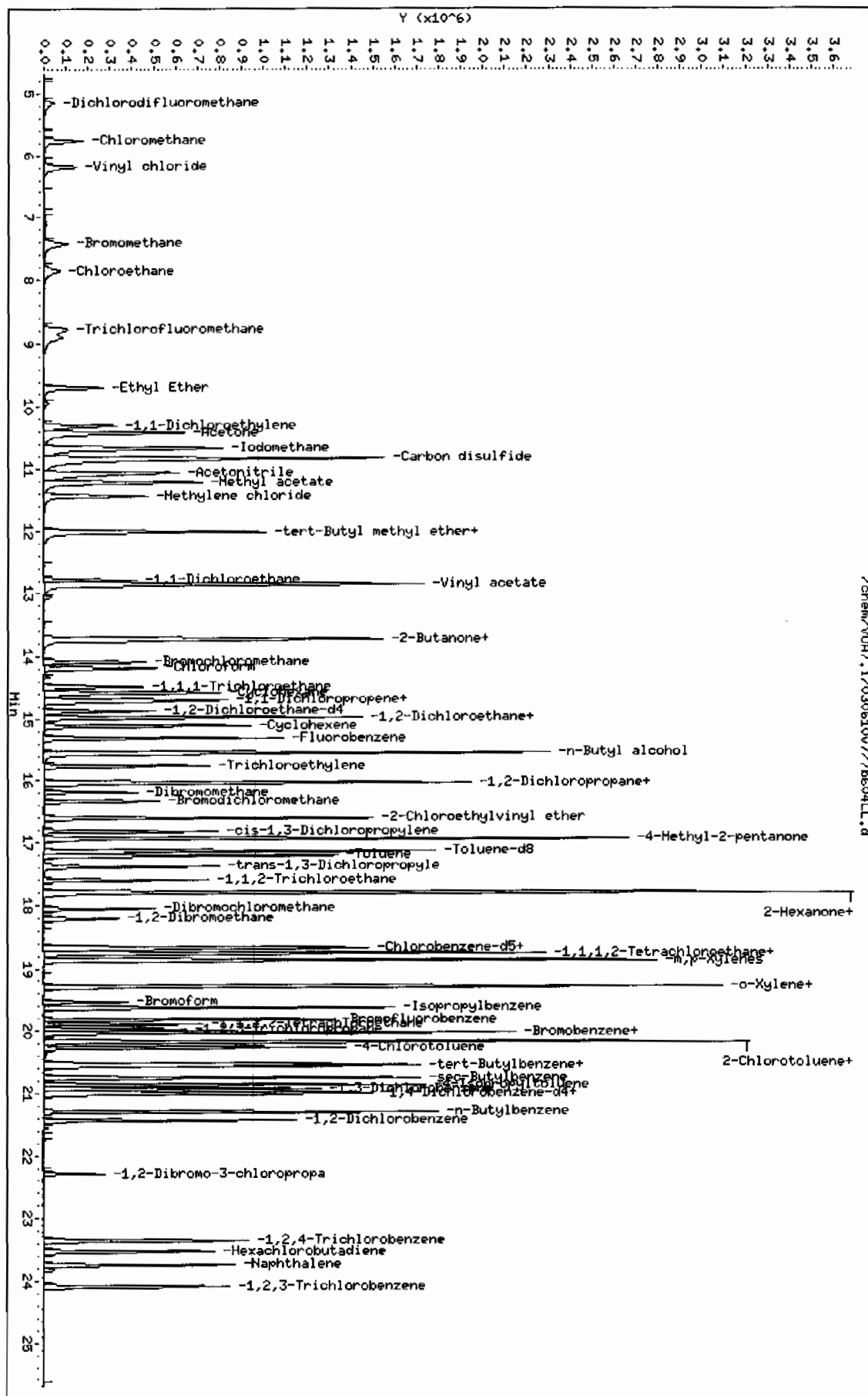
Sample Info: 11202063558196205911/NOA7.11

Column Phase: DB-624

Instrument: NOA7.1

Operator: AX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063560

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/07/2010 01:46

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 18:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b625LA.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		33.6	ug/kg	0.340	1.00
74-87-3	Chloromethane		37.1	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		41.2	ug/kg	0.300	1.00
74-83-9	Bromomethane		40.3	ug/kg	0.300	1.00
75-00-3	Chloroethane		41.9	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		37.8	ug/kg	0.300	1.00
67-64-1	Acetone		179	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		39.5	ug/kg	0.300	1.00
74-88-4	Iodomethane		213	ug/kg	1.60	5.00
75-09-2	Methylene chloride		41.2	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		208	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		39.7	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		42.5	ug/kg	0.300	1.00
78-93-3	2-Butanone		186	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		40.1	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		39.0	ug/kg	0.300	1.00
67-66-3	Chloroform		39.9	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		44.8	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		39.6	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		39.9	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		37.8	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		39.5	ug/kg	0.300	1.00
71-43-2	Benzene		42.1	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		41.8	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		43.5	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		42.6	ug/kg	0.300	1.00
74-95-3	Dibromomethane		43.1	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		214	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		44.2	ug/kg	0.300	1.00
108-88-3	Toluene		42.2	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		44.9	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	183	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		45.3	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		40.7	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		46.0	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		46.6	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		43.8	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063560

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/07/2010 01:46

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 18:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b625LA.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		40.6	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		87.2	ug/kg	0.300	2.00
95-47-6	o-Xylene		45.9	ug/kg	0.300	1.00
100-42-5	Styrene		46.2	ug/kg	0.300	1.00
75-25-2	Bromoform		46.9	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		42.9	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		41.2	ug/kg	0.300	1.00
108-86-1	Bromobenzene		45.5	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		39.8	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		41.3	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		40.0	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		42.7	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		40.2	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		42.6	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		41.9	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		41.7	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		42.8	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		43.2	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		43.5	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		40.3	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		46.0	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		45.0	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		44.7	ug/kg	0.300	1.00

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b625LA.d

Lab Smp Id: 1202063560

Client Smp ID: LCS

Inj Date : 07-MAR-2010 01:46

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063560|962059|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01D/IVM100304-01

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m

Meth Date : 22-Mar-2010 20:41 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 25

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			674666	89.5018	89.5
M 2 Xylenes (total)		106			1018382	133.139	133
M 3 1,2-Dichloroethylene (total)		96			659111	79.8199	79.8
4 Dichlorodifluoromethane		85	5.147	5.147 (0.336)	87226	33.6061	33.6
5 Chloromethane		50	5.757	5.757 (0.376)	289538	37.1329	37.1
6 Vinyl chloride		62	6.187	6.187 (0.404)	285129	41.1694	41.2
7 Bromomethane		94	7.418	7.418 (0.484)	159240	40.3276	40.3
8 Chloroethane		64	7.845	7.855 (0.512)	148357	41.8850	41.9
9 Trichlorofluoromethane		101	8.789	8.799 (0.574)	200532	37.8271	37.8
10 Ethyl Ether		59	9.703	9.703 (0.633)	213515	43.2940	43.3
13 Acetone		43	10.413	10.413 (0.680)	997219	178.602	179
14 1,1-Dichloroethylene		96	10.312	10.312 (0.673)	143340	39.5417	39.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
16 Iodomethane	142	10.667	10.667	(0.696)	1342866	212.581	212
17 Acetonitrile	41	11.073	11.073	(0.723)	1032884	1043.87	1040
18 Methyl acetate	43	11.225	11.225	(0.733)	1109149	214.816	215
19 Carbon disulfide	76	10.840	10.840	(0.708)	2649159	207.735	208
22 Methylene chloride	86	11.449	11.439	(0.747)	140148	41.1519	41.2
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	562365	43.6160	43.6
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	304134	39.6846	39.7
26 Vinyl acetate	43	12.860	12.860	(0.840)	2510669	198.229	198
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	423535	42.4696	42.5
31 2-Butanone	43	13.723	13.723	(0.896)	1159913	186.263	186
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	354977	40.1352	40.1
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	161428	38.9684	39.0
37 Bromochloromethane	49	14.088	14.088	(0.920)	292766	44.7757	44.8
38 Chloroform	83	14.190	14.190	(0.926)	331185	39.8924	39.9
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	225725	39.6208	39.6
43 Cyclohexane	56	14.586	14.586	(0.952)	360454	38.9226	38.9
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	238253	39.9421	39.9
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	171281	37.7838	37.8
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	314878	43.7217	43.7
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	323499	39.4939	39.5
48 Benzene	78	14.982	14.982	(0.978)	766780	42.0692	42.1
50 Cyclohexene	67	15.113	15.124	(0.987)	340751	39.6816	39.7
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	833571	50.0000	
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1021278	4711.36	4710
53 Trichloroethylene	95	15.763	15.763	(1.029)	184455	41.7681	41.8
55 Methylcyclohexane	83	16.027	16.027	(1.046)	303372	41.3053	41.3
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	264026	43.5013	43.5
58 Dibromomethane	93	16.179	16.179	(1.056)	141053	43.0846	43.1
59 Bromodichloromethane	83	16.332	16.332	(1.066)	277087	42.5680	42.6
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	510324	215.939	216
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	350203	44.1766	44.2
63 4-Methyl-2-pentanone	58	16.941	16.931	(0.908)	624032	214.162	214
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	915561	47.5111	47.5
65 Toluene	92	17.215	17.215	(0.922)	450159	42.2288	42.2
67 trans-1,3-Dichloropropylene	75	17.387	17.388	(0.931)	324463	44.9156	44.9
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	182064	45.3306	45.3
69 2-Hexanone	43	17.794	17.794	(0.953)	1477487	183.238	183(A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	373071	45.2961	45.3
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	119885	40.6950	40.7
72 Dibromochloromethane	129	18.058	18.058	(0.967)	199281	46.0020	46.0
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	203087	46.6228	46.6
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	592082	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	480169	43.7596	43.8
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	170250	45.0248	45.0
78 Ethylbenzene	91	18.758	18.758	(1.005)	808419	40.5882	40.6
79 m,p-Xylenes	106	18.870	18.870	(1.011)	653759	87.2192	87.2
80 o-Xylene	106	19.286	19.286	(1.033)	364623	45.9193	45.9

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
81 Styrene		104	19.286	19.286	(1.033)	587140	46.1742	46.2
82 Bromoform		173	19.540	19.540	(0.931)	134076	46.8972	46.9
83 Isopropylbenzene		105	19.631	19.631	(0.935)	771557	39.9695	40.0
\$ 86 Bromofluorobenzene		95	19.814	19.814	(0.944)	365797	46.6041	46.6
87 1,1,2,2-Tetrachloroethane		83	19.885	19.885	(0.947)	289746	42.9089	42.9
89 1,2,3-Trichloropropane		110	19.966	19.966	(0.951)	60523	41.1928	41.2
90 Bromobenzene		156	20.017	20.017	(0.954)	205556	45.4788	45.5
91 n-Propylbenzene		91	20.027	20.027	(0.954)	977538	39.8319	39.8
92 1,3,5-Trimethylbenzene		105	20.169	20.169	(0.961)	681424	42.7199	42.7
93 2-Chlorotoluene		91	20.169	20.169	(0.961)	693161	41.2540	41.2
94 4-Chlorotoluene		91	20.271	20.271	(0.966)	605796	40.1655	40.2
95 tert-Butylbenzene		119	20.524	20.524	(0.978)	615466	42.5934	42.6
96 1,2,4-Trimethylbenzene		105	20.565	20.565	(0.980)	676817	41.9258	41.9
98 sec-Butylbenzene		105	20.748	20.748	(0.988)	887185	41.6931	41.7
99 4-Isopropyltoluene		119	20.859	20.859	(0.994)	657933	42.7776	42.8
100 1,3-Dichlorobenzene		146	20.930	20.931	(0.997)	381446	43.1997	43.2
* 101 1,4-Dichlorobenzene-d4		152	20.991	20.991	(1.000)	298389	50.0000	
102 1,4-Dichlorobenzene		146	21.012	21.012	(1.001)	375174	43.5146	43.5
104 n-Butylbenzene		91	21.296	21.296	(1.014)	718548	40.3279	40.3
105 1,2-Dichlorobenzene		146	21.438	21.438	(1.021)	396234	44.6746	44.7
107 1,2-Dibromo-3-chloropropane		157	22.301	22.291	(1.062)	51234	45.9781	46.0
108 1,2,4-Trichlorobenzene		180	23.357	23.357	(1.113)	242229	43.5935	43.6
109 Hexachlorobutadiene		225	23.529	23.529	(1.121)	123543	41.4107	41.4
110 Naphthalene		128	23.743	23.743	(1.131)	634853	45.5021	45.5
111 1,2,3-Trichlorobenzene		180	24.088	24.098	(1.147)	232172	45.1977	45.2

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V097.i/030610v7/7b62SLA.d

Date: 07-MAR-2010 01:46

Client ID: LCS

Sample Info: 11202063560196205911.V097.i1

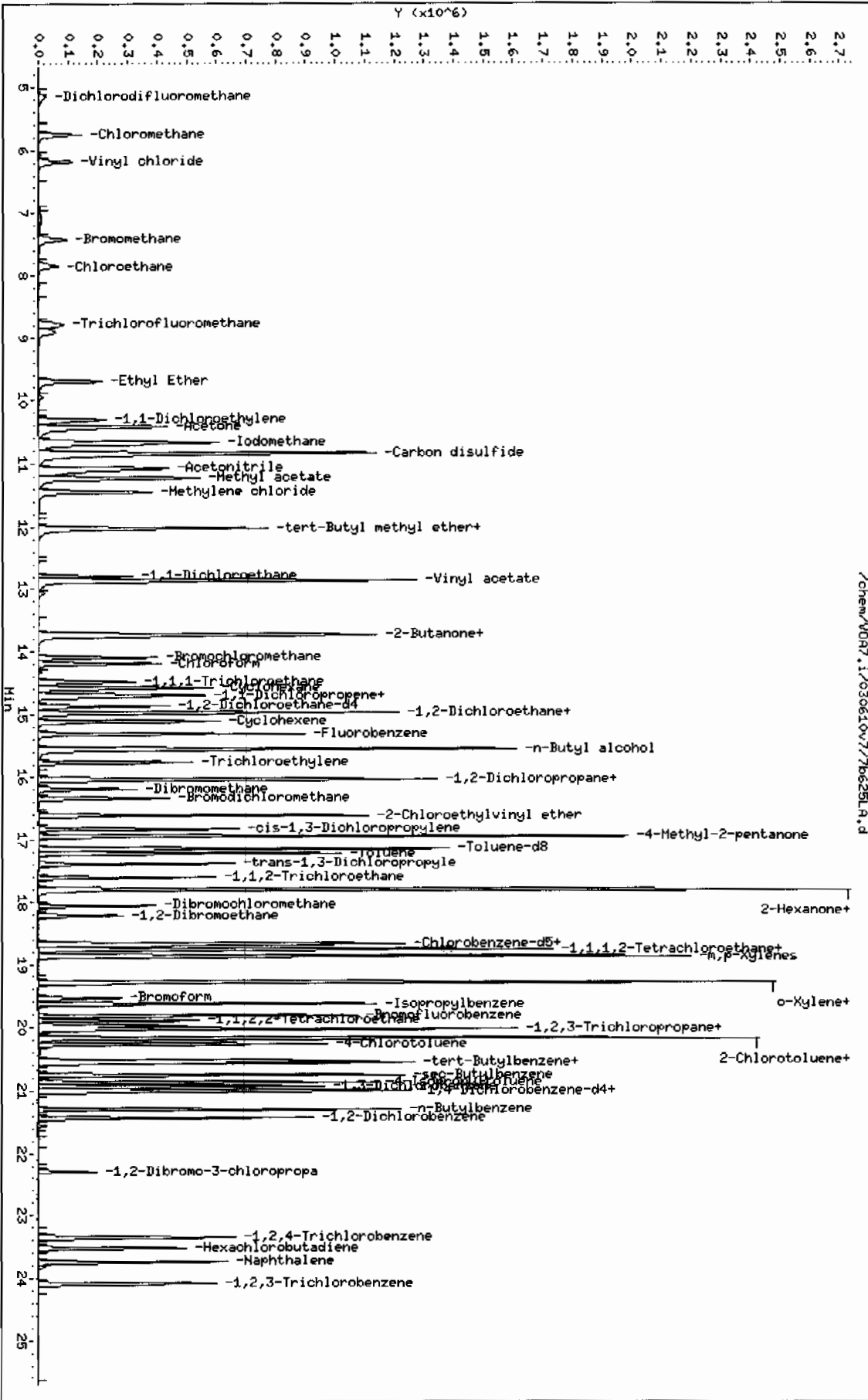
Column phase: DB-624

Instrument: V097.i

Operator: RKD1

Column diameter: 0.25

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Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078257

Client Sample: QC for batch 962058

Client: LANI.010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/09/2010 11:38

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c204LA.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		46.2	ug/kg	0.340	1.00
74-87-3	Chloromethane		35.0	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		37.8	ug/kg	0.300	1.00
74-83-9	Bromomethane		44.2	ug/kg	0.300	1.00
75-00-3	Chloroethane		45.5	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		49.1	ug/kg	0.300	1.00
67-64-1	Acetone		180	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		44.7	ug/kg	0.300	1.00
74-88-4	Iodomethane		226	ug/kg	1.60	5.00
75-09-2	Methylene chloride		44.1	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		209	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		40.4	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		44.0	ug/kg	0.300	1.00
78-93-3	2-Butanone		174	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		39.6	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		45.4	ug/kg	0.300	1.00
67-66-3	Chloroform		43.2	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		47.1	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		43.4	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		45.5	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		38.7	ug/kg	0.300	1.00
71-43-2	Benzene		42.5	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		45.4	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		41.6	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		46.3	ug/kg	0.300	1.00
74-95-3	Dibromomethane		46.7	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		205	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		47.4	ug/kg	0.300	1.00
108-88-3	Toluene		42.7	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		46.6	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		45.0	ug/kg	0.300	1.00
591-78-6	2-Hexanone	E	157	ug/kg	1.50	5.00
142-28-9	1,3-Dichloropropane		43.0	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		43.4	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		49.3	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		49.3	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		44.3	ug/kg	0.300	1.00

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078257

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/09/2010 11:38

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c204LA.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		39.5	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		86.7	ug/kg	0.300	2.00
95-47-6	o-Xylene		44.7	ug/kg	0.300	1.00
100-42-5	Styrene		44.7	ug/kg	0.300	1.00
75-25-2	Bromoform		52.3	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		44.6	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		47.5	ug/kg	0.300	1.00
108-86-1	Bromobenzene		47.3	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		39.3	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		40.3	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		41.5	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		42.8	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		43.3	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		44.5	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		43.0	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		42.6	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		45.1	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		45.5	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		42.6	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		49.5	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		47.7	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		46.9	ug/kg	0.300	1.00

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030910v7/7c204LA.d

Lab Smp Id: 1202078257

Client Smp ID: LCS

Inj Date : 09-MAR-2010 11:38

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202078257|962059|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01E/IVM100308-01

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 4

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			1107802	96.1055	96.1
M 2	Xylenes (total)	106			1594262	131.480	131
M 3	1,2-Dichloroethylene (total)	96			1008723	79.9710	80.0
	4 Dichlorodifluoromethane	85	5.147	5.148 (0.336)	183185	46.1536	46.2
	5 Chloromethane	50	5.757	5.757 (0.376)	416876	34.9625	35.0
	6 Vinyl chloride	62	6.187	6.188 (0.404)	400142	37.7825	37.8
	7 Bromomethane	94	7.418	7.419 (0.484)	267107	44.2363	44.2
	8 Chloroethane	64	7.845	7.845 (0.512)	246280	45.4697	45.5
	9 Trichlorofluoromethane	101	8.789	8.779 (0.574)	397945	49.0892	49.1
	10 Ethyl Ether	59	9.703	9.703 (0.633)	356087	47.2170	47.2
	13 Acetone	43	10.413	10.413 (0.680)	1536079	179.909	180
	14 1,1-Dichloroethylene	96	10.312	10.302 (0.673)	247679	44.6807	44.7

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)	2178413	225.515	226
17 Acetonitrile	41	11.073	11.073	(0.723)	1503009	993.346	993
18 Methyl acetate	43	11.215	11.215	(0.732)	1590572	201.453	201
19 Carbon disulfide	76	10.840	10.830	(0.708)	4069645	208.689	209
22 Methylene chloride	86	11.449	11.449	(0.747)	229869	44.1394	44.1
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	921560	46.7406	46.7
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	472964	40.3579	40.4
26 Vinyl acetate	43	12.860	12.860	(0.840)	3924340	202.622	203
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	670787	43.9862	44.0
31 2-Butanone	43	13.713	13.713	(0.895)	1659933	174.315	174
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	535759	39.6131	39.6
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	287637	45.4069	45.4
37 Bromochloromethane	49	14.088	14.088	(0.920)	420710	42.0773	42.1
38 Chloroform	83	14.190	14.190	(0.926)	547884	43.1570	43.2
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	410105	47.0740	47.1
43 Cyclohexane	56	14.586	14.586	(0.952)	586789	41.4359	41.4
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	395561	43.3660	43.4
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	315568	45.5232	45.5
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	488011	44.3127	44.3
47 1,2-Dichloroethane	62	14.981	14.982	(0.978)	484203	38.6570	38.6
48 Benzene	78	14.981	14.982	(0.978)	1185781	42.5442	42.5
50 Cyclohexene	67	15.124	15.114	(0.987)	564791	43.0113	43.0
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	1274675	50.0000	
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1596792	4817.19	4820
53 Trichloroethylene	95	15.763	15.763	(1.029)	306425	45.3755	45.4
55 Methylcyclohexane	83	16.027	16.027	(1.046)	509892	45.3996	45.4
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	386134	41.6041	41.6
58 Dibromomethane	93	16.179	16.180	(1.056)	233568	46.6548	46.6
59 Bromodichloromethane	83	16.332	16.332	(1.066)	460930	46.3069	46.3
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	869562	240.619	241
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	574093	47.3585	47.4
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	949218	205.444	205
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1382820	45.2548	45.2
65 Toluene	92	17.215	17.215	(0.922)	722240	42.7282	42.7
67 trans-1,3-Dichloropropylene	75	17.387	17.388	(0.931)	533709	46.5937	46.6
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	286635	45.0078	45.0
69 2-Hexanone	43	17.794	17.794	(0.953)	2010608	157.257	157 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	561259	42.9758	43.0
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	202678	43.3883	43.4
72 Dibromochloromethane	129	18.058	18.058	(0.967)	338708	49.3091	49.3
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	340749	49.3335	49.3
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	938839	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	770077	44.2593	44.2
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	285854	47.6760	47.7
78 Ethylbenzene	91	18.758	18.768	(1.005)	1248721	39.5384	39.5
79 m,p-Xylenes	106	18.870	18.870	(1.011)	1031005	86.7453	86.7
80 o-Xylene	106	19.286	19.286	(1.033)	563257	44.7351	44.7

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)	901693	44.7205	44.7
82 Bromoform	173	19.540	19.540	(0.931)	233642	52.2899	52.3
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1253025	41.5328	41.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	596841	48.6535	48.6
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	470725	44.6034	44.6
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	109037	47.4838	47.5
90 Bromobenzene	156	20.017	20.017	(0.954)	334434	47.3435	47.3
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1506993	39.2898	39.3
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	1067140	42.8060	42.8
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	1058233	40.2981	40.3
94 4-Chlorotoluene	91	20.260	20.261	(0.965)	1020911	43.3098	43.3
95 tert-Butylbenzene	119	20.524	20.525	(0.978)	1005419	44.5201	44.5
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	1084969	43.0029	43.0
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1417923	42.6357	42.6
99 4-Isopropyltoluene	119	20.859	20.860	(0.994)	1077523	44.8262	44.8
100 1,3-Dichlorobenzene	146	20.930	20.931	(0.997)	622629	45.1178	45.1
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	466350	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	613025	45.4937	45.5
104 n-Butylbenzene	91	21.296	21.296	(1.014)	1185183	42.5604	42.6
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	650380	46.9188	46.9
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	86364	49.5076	49.5
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	415397	47.8332	47.8
109 Hexachlorobutadiene	225	23.529	23.530	(1.121)	215044	46.1203	46.1
110 Naphthalene	128	23.743	23.743	(1.131)	1048421	48.0800	48.1
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	388836	48.4333	48.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

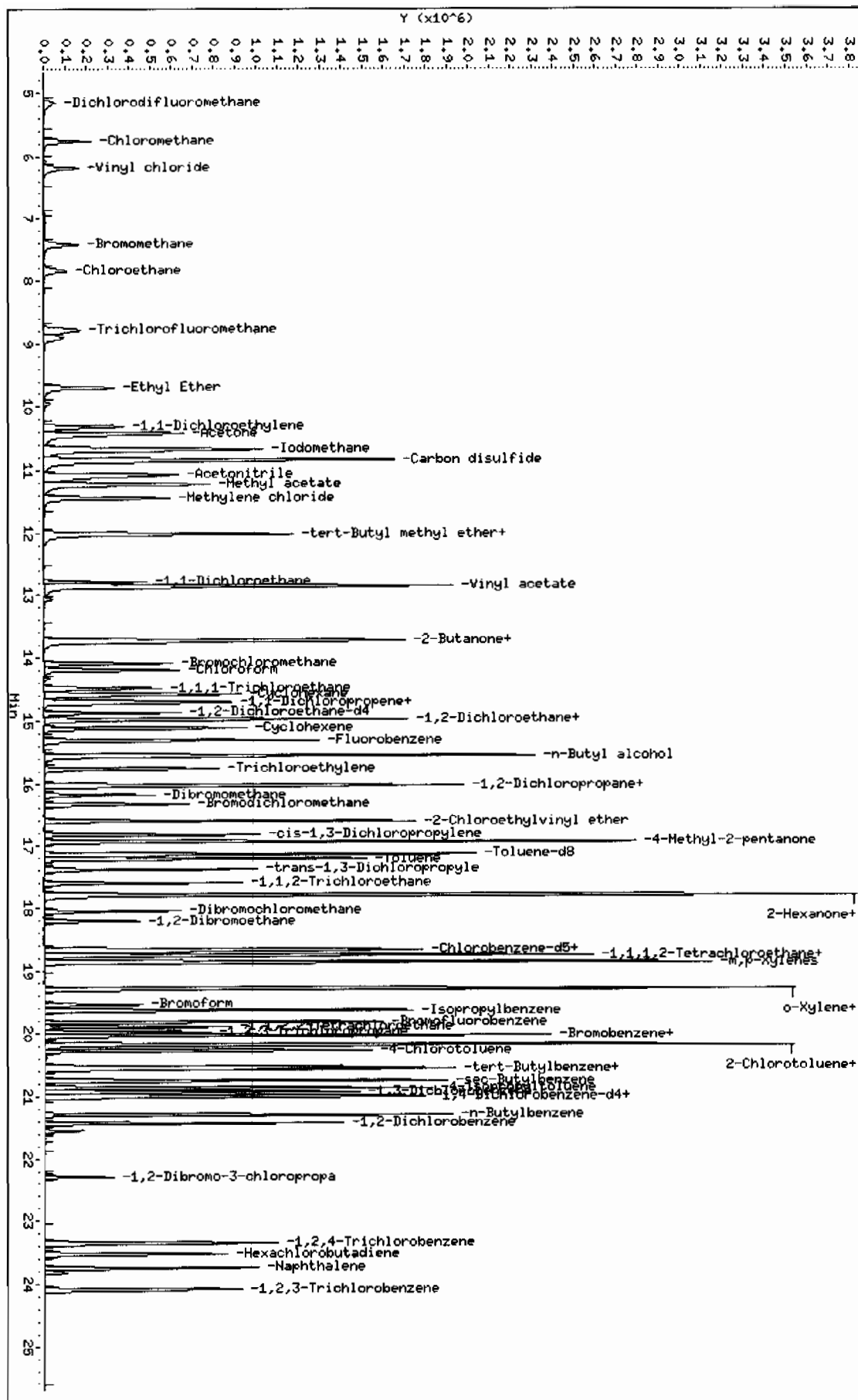
Data File: /chem/V007.1/030910v7/70204L.A.d
 Date : 09-MAR-2010 11:38
 Client ID: LCS
 Sample Info: 11202078267196205911/V007.1.1

Column phase: DB-624

Instrument: V007.1

Operator: AXDI
 Column diameter: 0.25

/chem/V007.1/030910v7/70204L.A.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063559

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.1

Dilution: 1

Run Date: 03/06/2010 15:13

Analyst: AX01

Purge Vol: 5 mL

Prep Date: 03/06/2010 11:30

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b606LL.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: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063559

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/06/2010 15:13

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 11:30

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b606LL.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		271	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/030610v7/7b606LL.d

Lab Smp Id: 1202063559

Client Smp ID: SLCS

Inj Date : 06-MAR-2010 15:13

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063559|962059|1|VOAF|1|

Misc Info : GEL 5g N/A UVM091216-08B/UVM100125-08E

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 6

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.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	FINAL
						(ug/l)	(ug/Kg)
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	331359	136.038	136
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	678024	140.176	140
11 Acrolein	56	10.017	10.017	(0.654)	383191	347.737	348
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	542951	271.149	271
15 Isopropyl Alcohol	45	10.779	10.809	(0.704)	1892326	2538.81	2540
20 Allyl chloride	41	11.175	11.175	(0.730)	2440275	224.434	224
21 tert-Butyl Alcohol	59	11.662	11.266	(0.761)	2592795	2406.84	2410 (Q)
23 Acrylonitrile	53	11.926	11.926	(0.779)	795149	257.711	258
27 Isopropyl ether	45	12.900	12.900	(0.842)	1241579	42.4476	42.4
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	515011	55.0693	55.1
30 Ethyl tert-butyl ether	59	13.489	13.794	(0.881)	963314	48.2151	48.2 (Q)
32 Ethyl acetate	43	13.794	13.794	(0.901)	1908512	205.751	206

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)	326078	240.861	241
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1213885	215.912	216
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	723214	225.246	225
42 Isobutyl alcohol	41	14.738	14.738	(0.962)	925206	2253.29	2250
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	441916	44.6329	44.6
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	778537	50.7145	50.7
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1145994	50.0000	
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1223022	246.088	246
57 1,4-Dioxane	88	16.159	16.159	(1.055)	198840	2661.97	2660
60 2-Nitropropane	43	16.555	16.555	(1.081)	779793	242.414	242
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1264299	49.9429	49.9
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	2112469	237.253	237
74 1-Chlorohexane	55	18.575	18.667	(1.213)	358831	49.0233	49.0 (QH)
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	777797	50.0000	
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	781798	262.373	262
85 Cyclohexanone	55	19.773	19.773	(1.059)	1743322	3965.35	3960 (AR)
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	478593	47.5049	47.5
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	713335	265.265	265
97 Pentachloroethane	167	20.596	20.596	(0.981)	711022	329.447	329 (A)
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	382997	50.0000	
103 Benzyl chloride	91	21.123	21.123	(1.006)	3111054	327.790	328
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1262527	235.626	236

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /chem/VD07.i/030610v7/7b606LL.d

Date : 06-MAR-2010 15:13

Client ID: SLCS

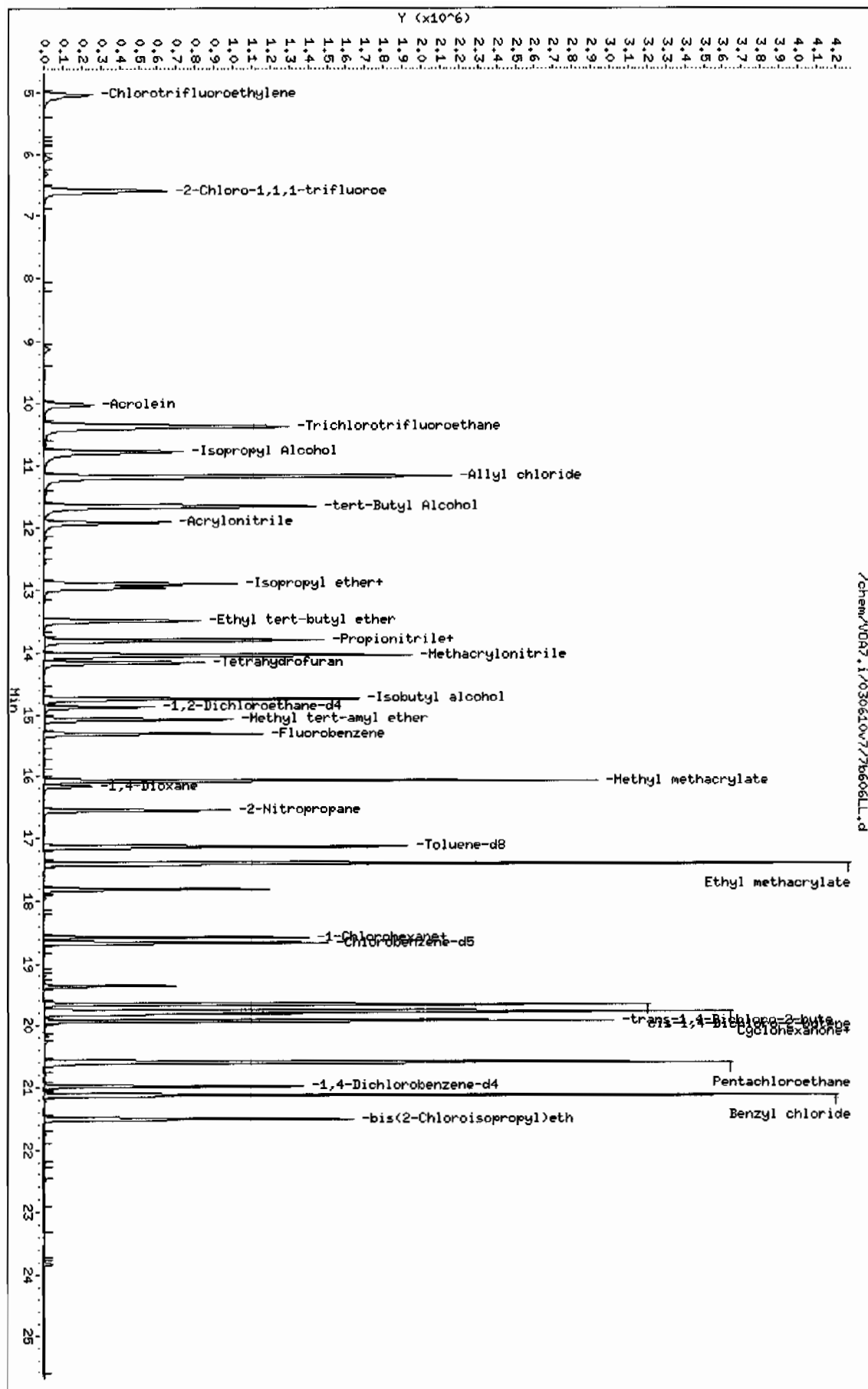
Sample Info: 112020635591962059111V0AF111

Column phase: DB-624

Instrument: VD07.i

Operator: BX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063561

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/07/2010 02:19

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 18:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b626LA.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: 10-2121

Matrix: SOIL

Lab Sample ID: 1202063561

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/07/2010 02:19

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/06/2010 18:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b626LA.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		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

Data File: /chem/VOA7.i/030610v7/7b626LA.d
Report Date: 22-Mar-2010 20:46

Page 1

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b626LA.d
Lab Smp Id: 1202063561 Client Smp ID: SLCS
Inj Date : 07-MAR-2010 02:19
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202063561|962059|1|VOAF|1|
Misc Info : GEL 5g N/A UVM091216-08B/UVM100125-08E
Comment :
Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710PM.m
Meth Date : 22-Mar-2010 20:41 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.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

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
147 Chlorotrifluoroethylene	116		5.044	5.044	(0.329)	239238	120.891	121
148 2-Chloro-1,1,1-trifluoroethane	118		6.604	6.604	(0.431)	528817	134.566	134
11 Acrolein	56		10.017	10.017	(0.654)	271739	303.521	304
12 Trichlorotrifluoroethane	85		10.373	10.373	(0.677)	372917	229.225	229
15 Isopropyl Alcohol	45		10.779	10.779	(0.704)	1324390	2187.02	2190
20 Allyl chloride	41		11.185	11.185	(0.730)	1951845	220.952	221
21 tert-Butyl Alcohol	59		11.662	11.662	(0.761)	1913846	2186.70	2190
23 Acrylonitrile	53		11.926	11.926	(0.779)	636460	253.898	254
27 Isopropyl ether	45		12.900	12.900	(0.842)	1102954	46.4129	46.4
29 2-Chloro-1,3-butadiene	53		12.961	12.961	(0.846)	377370	49.6664	49.7
30 Ethyl tert-butyl ether	59		13.489	13.489	(0.881)	809842	49.8905	49.9
32 Ethyl acetate	43		13.804	13.804	(0.901)	1588234	210.748	211

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
35 Propionitrile	54	13.804	13.804	(0.901)	258861	235.350	235
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1013446	221.872	222
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	576803	223.680	224
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	740562	2219.95	2220
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	363084	45.1362	45.1
49 Methyl tert-amyl ether	73	15.073	15.073	(0.984)	646250	51.8150	51.8
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	931065	50.0000	
54 Methyl methacrylate	69	16.078	16.078	(1.050)	993878	246.146	246
57 1,4-Dioxane	88	16.159	16.159	(1.055)	136493	2249.11	2250
60 2-Nitropropane	43	16.555	16.555	(1.081)	610014	233.411	233
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1019453	50.7218	50.7
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1739368	246.046	246
74 1-Chlorohexane	55	18.575	18.575	(1.213)	272160	45.7656	45.8
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	617537	50.0000	
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	613038	256.166	256
85 Cyclohexanone	55	19.773	19.773	(1.059)	1323553	3791.82	3790 (AR)
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	370662	45.8099	45.8
88 trans-1,4-Dichloro-2-butene	53	19.926	19.926	(0.949)	548635	254.026	254
97 Pentachloroethane	167	20.596	20.596	(0.981)	411143	237.194	237
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	307600	50.0000	
103 Benzyl chloride	91	21.123	21.123	(1.006)	2034670	266.926	267
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	993804	230.936	231

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.i/030610v7/7b626LA.d

Date: 07-MAR-2010 02:19

Client ID: SLCS

Sample Info: 11202063564196205911V007I11

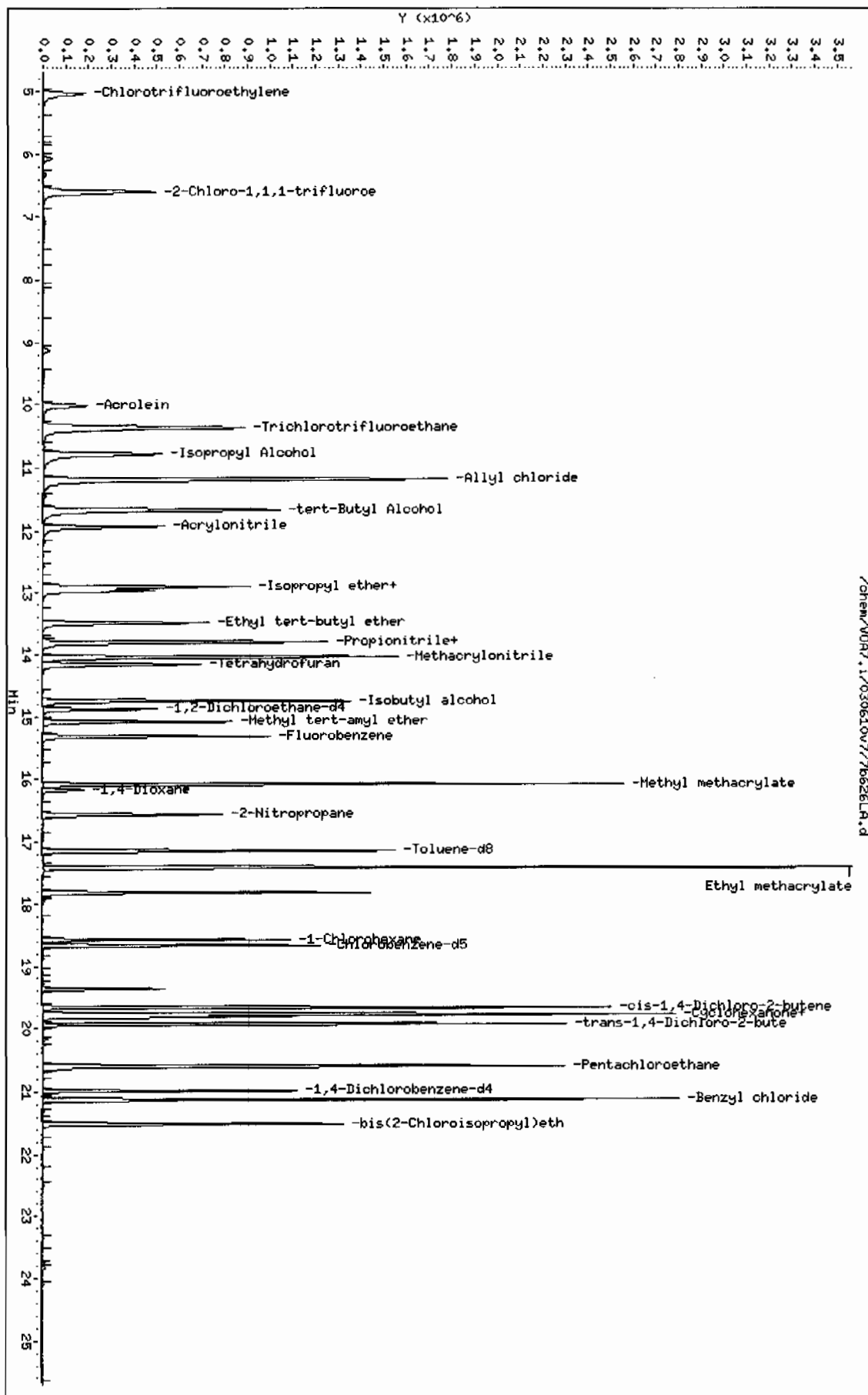
Column phase: DB-624

Instrument: V007.i

Operator: AX01

Column diameter: 0.25

/chem/V007.i/030610v7/7b626LA.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078258

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.I

Dilution: 1

Run Date: 03/09/2010 12:45

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c206LA.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: 10-2121

Matrix: SOIL

Lab Sample ID: 1202078258

Client Sample: QC for batch 962058

Client: LANL010

Project: QC

Client ID: LCS for batch 962058

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 962059

Inst: VOA7.1

Dilution: 1

Run Date: 03/09/2010 12:45

Analyst: AX01

Purge Vol: 5 mL

Prep Date: 03/09/2010 09:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7c206LA.d

Column: DB-624

Level: LOW

CAS No.	Parinname	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		252	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/030910v7/7c206LA.d

Lab Smp Id: 1202078258

Client Smp ID: SLCS

Inj Date : 09-MAR-2010 12:45

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202078258|962059|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100215-08B

Comment :

Method : /chem/VOA7.i/030910v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:48 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 6

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 (ug/l)	FINAL (ug/Kg)
11 Acrolein	56	10.017	10.017	(0.654)	400496	321.242	321
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	571264	252.164	252
20 Allyl chloride	41	11.185	11.185	(0.730)	2529139	205.599	206
23 Acrylonitrile	53	11.926	11.926	(0.779)	888085	254.412	254
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	580051	54.8223	54.8
32 Ethyl acetate	43	13.794	13.804	(0.901)	2007235	191.268	191
35 Propionitrile	54	13.804	13.804	(0.901)	346927	226.507	226
36 Methacrylonitrile	41	14.038	14.038	(0.916)	1280943	201.385	201
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	750624	198.540	198
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	919981	1980.42	1980
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	495010	44.1904	44.2
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1296534	50.0000	

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
54 Methyl methacrylate		69	16.078	16.078	(1.050)	1323712	235.423	235
57 1,4-Dioxane		88	16.159	16.159	(1.055)	201086	2379.46	2380
60 2-Nitropropane		43	16.555	16.555	(1.081)	817563	224.646	225
\$ 64 Toluene-d8		98	17.134	17.134	(0.918)	1406707	47.0229	47.0
66 Ethyl methacrylate		69	17.408	17.408	(0.933)	2292473	217.876	218
* 75 Chlorobenzene-d5		117	18.667	18.667	(1.000)	919145	50.0000	
84 cis-1,4-Dichloro-2-butene		53	19.662	19.662	(0.937)	832252	237.201	237
85 Cyclohexanone		55	19.773	19.773	(1.059)	1738285	3345.85	3340 (AR)
\$ 86 Bromofluorobenzene		95	19.814	19.814	(0.944)	559399	47.1552	47.2
88 trans-1,4-Dichloro-2-butene		53	19.926	19.926	(0.949)	746128	235.633	236
97 Pentachloroethane		167	20.596	20.596	(0.981)	806216	317.241	317 (A)
* 101 1,4-Dichlorobenzene-d4		152	20.992	20.992	(1.000)	450982	50.0000	
103 Benzyl chloride		91	21.124	21.124	(1.006)	3295692	294.897	295
106 bis(2-Chloroisopropyl)ether		45	21.509	21.509	(1.025)	1335714	211.705	212

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
 R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.i/030910v7/7c206LA.d

Date: 09-MAR-2010 12:45

Client ID: SLCS

Sample Info: 11202078258196205911V007.11

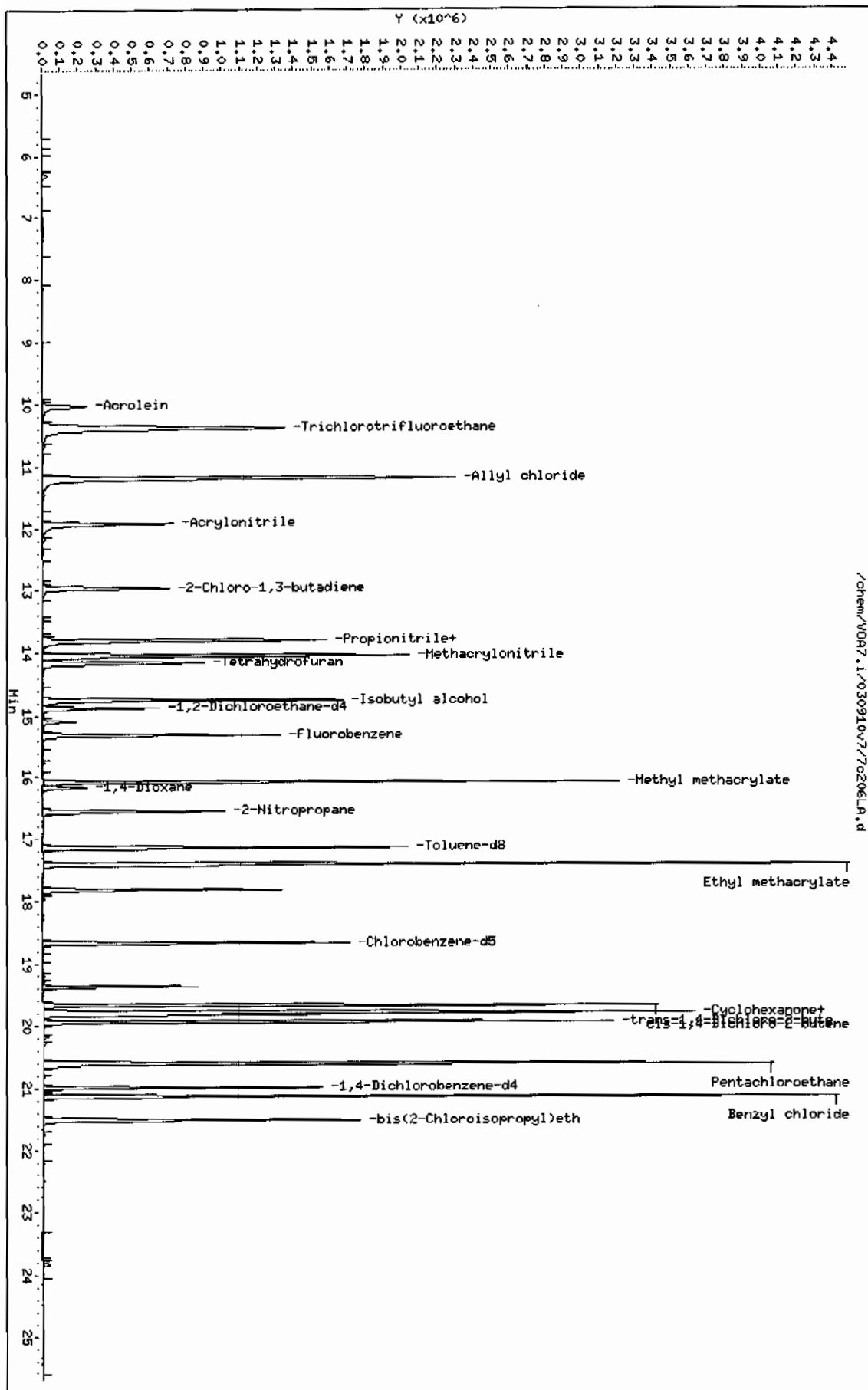
Column phase: DB-624

Instrument: V007.i

Operator: AXD1

Column diameter: 0.25

/chem/V007.i/030910v7/7c206LA.d



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 1202063556	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: RE36-10-7405PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 23:30	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:12	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b621.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		35.3	ug/kg	0.412	1.21
74-87-3	Chloromethane		31.2	ug/kg	0.364	1.21
75-01-4	Vinyl chloride		41.7	ug/kg	0.364	1.21
74-83-9	Bromomethane		26.3	ug/kg	0.364	1.21
75-00-3	Chloroethane		41.0	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane		34.0	ug/kg	0.364	1.21
67-64-1	Acetone		77.3	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene		35.3	ug/kg	0.364	1.21
74-88-4	Iodomethane		122	ug/kg	1.94	6.06
75-09-2	Methylene chloride		37.4	ug/kg	2.42	6.06
75-15-0	Carbon disulfide		170	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene		29.7	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane		36.2	ug/kg	0.364	1.21
78-93-3	2-Butanone		96.3	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene		30.2	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane		32.9	ug/kg	0.364	1.21
67-66-3	Chloroform		32.4	ug/kg	0.364	1.21
74-97-5	Bromochloromethane		34.1	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane		32.6	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene		29.8	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride		29.8	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane		28.7	ug/kg	0.364	1.21
71-43-2	Benzene		31.8	ug/kg	0.364	1.21
79-01-6	Trichloroethylene		29.0	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane		33.6	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane		29.0	ug/kg	0.364	1.21
74-95-3	Dibromomethane		29.5	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone		140	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene		22.0	ug/kg	0.364	1.21
108-88-3	Toluene		30.2	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene		22.5	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane		32.3	ug/kg	0.364	1.21
591-78-6	2-Hexanone		61.3	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane		30.0	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene		31.4	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane		27.2	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane		26.6	ug/kg	0.364	1.21
108-90-7	Chlorobenzene		24.9	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 1202063556	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: RE36-10-7405PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/06/2010 23:30	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:12	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b621.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		27.4	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes		53.7	ug/kg	0.364	2.42
95-47-6	o-Xylene		27.4	ug/kg	0.364	1.21
100-42-5	Styrene		19.1	ug/kg	0.364	1.21
75-25-2	Bromoform		32.1	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane		35.1	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane		33.1	ug/kg	0.364	1.21
108-86-1	Bromobenzene		28.6	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene		33.4	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene		31.0	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene		38.4	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene		33.6	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene		24.4	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene		38.0	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene		29.5	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene		34.3	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene		21.0	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene		22.0	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene		20.5	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene		24.6	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane		21.9	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		31.6	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene		21.1	ug/kg	0.364	1.21

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b621.d

Lab Smp Id: 1202063556

Client Smp ID: RE36-10-7405MS

Inj Date : 06-MAR-2010 23:30

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063556|962059|1|VOAF|1|

Misc Info : LANL 5g N/A MS 248197001

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 21

QC Sample: MS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.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	17.50750	% 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)	691001	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	444722	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.992 (1.000)	158018	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	253894	42.5277	51.6
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	752478	51.9871	63.0
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	223624	53.7996	65.2
4 Dichlorodifluoromethane	85	5.148	5.148 (0.336)	62679	29.1312	35.3
5 Chloromethane	50	5.757	5.757 (0.376)	166112	25.6991	31.2
6 Vinyl chloride	62	6.188	6.188 (0.404)	197540	34.4074	41.7
7 Bromomethane	94	7.429	7.419 (0.485)	70979	21.6842	26.3
8 Chloroethane	64	7.845	7.835 (0.512)	99330	33.8294	41.0
9 Trichlorofluoromethane	101	8.789	8.789 (0.574)	123204	28.0355	34.0

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
13 Acetone	43	10.423	10.413	(0.681)	295212	63.7814	77.3
14 1,1-Dichloroethylene	96	10.312	10.302	(0.673)	87407	29.0869	35.3
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	77093	16.8847	20.5 (R)
16 Iodomethane	142	10.667	10.667	(0.696)	528165	100.862	122 (R)
22 Methylene chloride	86	11.439	11.439	(0.747)	87174	30.8783	37.4
19 Carbon disulfide	76	10.840	10.830	(0.708)	1481592	140.150	170
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	155707	24.5092	29.7 (R)
28 1,1-Dichloroethane	63	12.799	12.789	(0.836)	246572	29.8261	36.2 (R)
31 2-Butanone	43	13.723	13.713	(0.896)	410027	79.4287	96.3
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	182488	24.8899	30.2 (R)
100 1,3-Dichlorobenzene	146	20.931	20.931	(0.997)	84785	18.1319	22.0 (R)
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	93128	27.1193	32.9 (R)
38 Chloroform	83	14.190	14.190	(0.926)	184105	26.7515	32.4 (R)
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	81647	17.3830	21.1 (R)
37 Bromochloromethane	49	14.088	14.088	(0.920)	152690	28.1706	34.1
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	127042	26.9001	32.6 (R)
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	121434	24.5582	29.8 (R)
45 Carbon tetrachloride	117	14.728	14.718	(0.962)	92260	24.5513	29.8 (R)
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	160664	23.6614	28.7 (R)
48 Benzene	78	14.982	14.982	(0.978)	395891	26.2019	31.8 (R)
53 Trichloroethylene	95	15.763	15.763	(1.029)	87518	23.9065	29.0 (R)
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	139444	27.7153	33.6 (R)
59 Bromodichloromethane	83	16.332	16.332	(1.066)	129245	23.9522	29.0 (R)
58 Dibromomethane	93	16.180	16.180	(1.056)	66083	24.3497	29.5 (R)
63 4-Methyl-2-pentanone	58	16.931	16.931	(0.907)	253633	115.887	140
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	119394	18.1685	22.0 (R)
65 Toluene	92	17.215	17.215	(0.922)	199769	24.9496	30.2 (R)
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	100809	18.5791	22.5 (R)
68 1,1,2-Trichloroethane	83	17.601	17.601	(0.943)	80505	26.6860	32.3 (R)
69 2-Hexanone	43	17.794	17.794	(0.953)	306272	50.5699	61.3 (R)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	153155	24.7568	30.0 (R)
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	57314	25.9018	31.4
72 Dibromochloromethane	129	18.058	18.058	(0.967)	72985	22.4304	27.2 (R)
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	71815	21.9495	26.6 (R)
76 Chlorobenzene	112	18.697	18.697	(1.002)	169570	20.5741	24.9 (R)
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	73925	26.0285	31.6 (R)
78 Ethylbenzene	91	18.758	18.758	(1.005)	337804	22.5799	27.4 (R)
79 m,p-Xylenes	106	18.870	18.870	(1.011)	249266	44.2742	53.7 (R)
80 o-Xylene	106	19.286	19.286	(1.033)	135052	22.6436	27.4 (R)
81 Styrene	104	19.286	19.286	(1.033)	150362	15.7431	19.1 (R)
82 Bromoform	173	19.530	19.530	(0.930)	40064	26.4622	32.1
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	103648	28.9846	35.1
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	21231	27.2865	33.1 (R)
90 Bromobenzene	156	20.017	20.017	(0.954)	56376	23.5532	28.6 (R)
91 n-Propylbenzene	91	20.027	20.027	(0.954)	357764	27.5277	33.4
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	227329	25.5484	31.0
83 Isopropylbenzene	105	19.631	19.631	(0.935)	324176	31.7116	38.4

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	233873	27.6866	33.6
94 4-Chlorotoluene	91	20.271	20.261	(0.966)	160799	20.1320	24.4 (R)
95 tert-Butylbenzene	119	20.525	20.525	(0.978)	240101	31.3768	38.0
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	208300	24.3655	29.5
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	318486	28.2629	34.3
99 4-Isopropyltoluene	119	20.860	20.860	(0.994)	141379	17.3578	21.0 (R)
104 n-Butylbenzene	91	21.296	21.296	(1.014)	191699	20.3164	24.6
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	10261	18.0419	21.9 (R)

QC Flag Legend

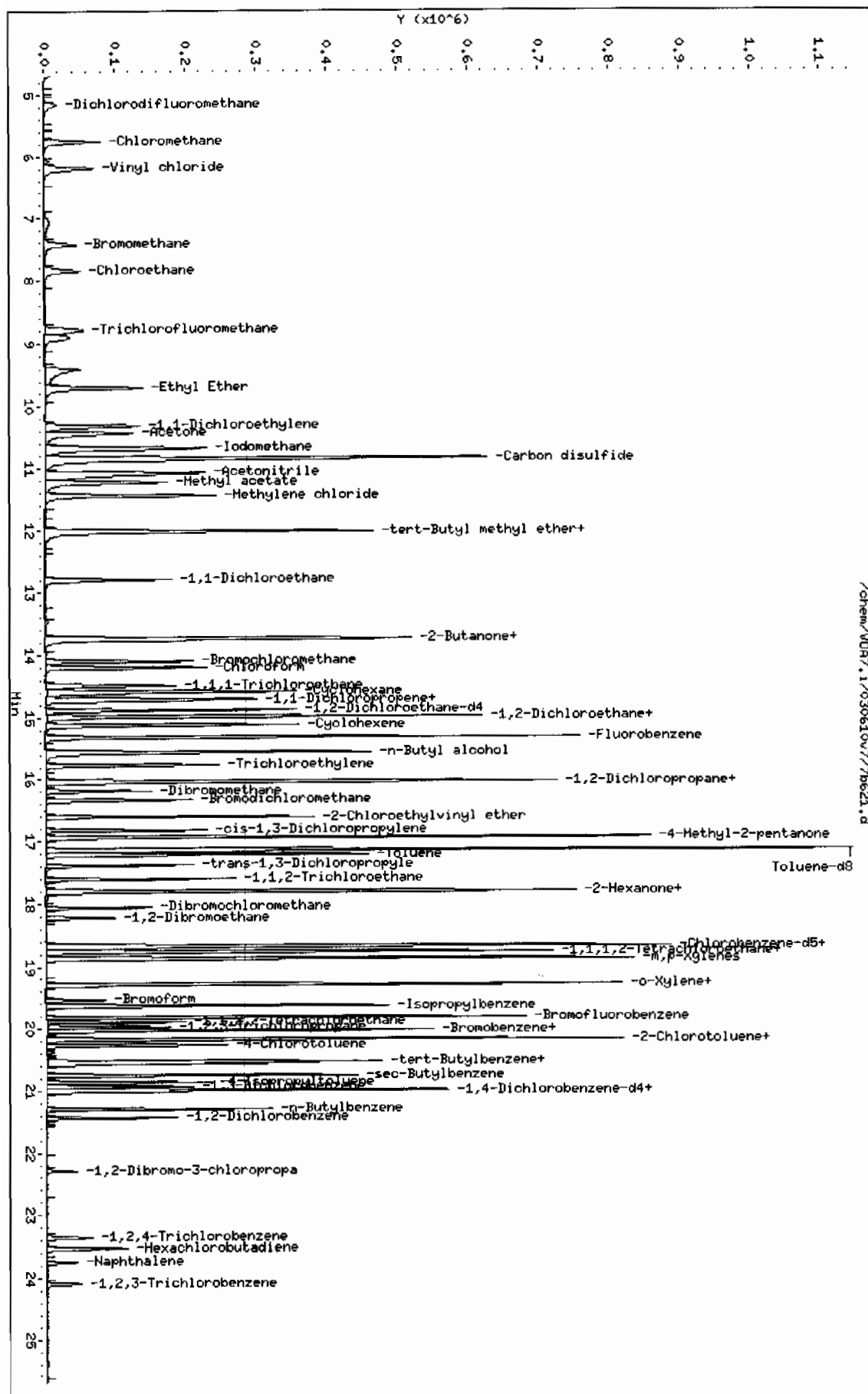
R - Spike/Surrogate failed recovery limits.

Data File: /chem/VD07.1/030610v7/7b621.d
 Date : 06-MAR-2010 23:30
 Client ID: RE36-10-7405HS
 Sample Info: 11202063556196205911|VD07.1|

Column phase: DB-624

Instrument: VD07.i

Operator: PK01
 Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 1202063557	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: RE36-10-7405PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.I	Dilution: 1
Run Date: 03/07/2010 00:04	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:14	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b622.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		37.6	ug/kg	0.412	1.21
74-87-3	Chloromethane		31.1	ug/kg	0.364	1.21
75-01-4	Vinyl chloride		41.5	ug/kg	0.364	1.21
74-83-9	Bromomethane		26.5	ug/kg	0.364	1.21
75-00-3	Chloroethane		41.0	ug/kg	0.364	1.21
75-69-4	Trichlorofluoromethane		37.8	ug/kg	0.364	1.21
67-64-1	Acetone		86.5	ug/kg	2.01	6.06
75-35-4	1,1-Dichloroethylene		36.1	ug/kg	0.364	1.21
74-88-4	Iodomethane		123	ug/kg	1.94	6.06
75-09-2	Methylene chloride		37.6	ug/kg	2.42	6.06
75-15-0	Carbon disulfide		164	ug/kg	1.52	6.06
156-60-5	trans-1,2-Dichloroethylene		29.3	ug/kg	0.364	1.21
75-34-3	1,1-Dichloroethane		36.4	ug/kg	0.364	1.21
78-93-3	2-Butanone		99.1	ug/kg	1.82	6.06
156-59-2	cis-1,2-Dichloroethylene		30.5	ug/kg	0.364	1.21
594-20-7	2,2-Dichloropropane		35.8	ug/kg	0.364	1.21
67-66-3	Chloroform		32.3	ug/kg	0.364	1.21
74-97-5	Bromochloromethane		33.0	ug/kg	0.400	1.21
71-55-6	1,1,1-Trichloroethane		36.2	ug/kg	0.364	1.21
563-58-6	1,1-Dichloropropene		30.6	ug/kg	0.364	1.21
56-23-5	Carbon tetrachloride		32.7	ug/kg	0.364	1.21
107-06-2	1,2-Dichloroethane		27.8	ug/kg	0.364	1.21
71-43-2	Benzene		32.0	ug/kg	0.364	1.21
79-01-6	Trichloroethylene		29.2	ug/kg	0.400	1.21
78-87-5	1,2-Dichloropropane		33.6	ug/kg	0.364	1.21
75-27-4	Bromodichloromethane		28.9	ug/kg	0.364	1.21
74-95-3	Dibromomethane		27.8	ug/kg	0.364	1.21
108-10-1	4-Methyl-2-pentanone		151	ug/kg	1.52	6.06
10061-01-5	cis-1,3-Dichloropropylene		20.6	ug/kg	0.364	1.21
108-88-3	Toluene		31.5	ug/kg	0.364	1.21
10061-02-6	trans-1,3-Dichloropropylene		21.4	ug/kg	0.364	1.21
79-00-5	1,1,2-Trichloroethane		33.3	ug/kg	0.364	1.21
591-78-6	2-Hexanone		70.5	ug/kg	1.82	6.06
142-28-9	1,3-Dichloropropane		31.3	ug/kg	0.364	1.21
127-18-4	Tetrachloroethylene		32.3	ug/kg	0.364	1.21
124-48-1	Dibromochloromethane		29.4	ug/kg	0.364	1.21
106-93-4	1,2-Dibromoethane		26.5	ug/kg	0.364	1.21
108-90-7	Chlorobenzene		25.7	ug/kg	0.364	1.21

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 1202063557	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client Sample: QC for batch 962058	Client: LANL010	Project: QC
Client ID: RE36-10-7405PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 962059	Inst: VOA7.1	Dilution: 1
Run Date: 03/07/2010 00:04	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/05/2010 16:14	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b622.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		28.0	ug/kg	0.364	1.21
179601-23-1	m,p-Xylenes		55.8	ug/kg	0.364	2.42
95-47-6	o-Xylene		28.3	ug/kg	0.364	1.21
100-42-5	Styrene		20.2	ug/kg	0.364	1.21
75-25-2	Bromoform		33.4	ug/kg	0.364	1.21
79-34-5	1,1,2,2-Tetrachloroethane		36.6	ug/kg	0.364	1.21
96-18-4	1,2,3-Trichloropropane		35.9	ug/kg	0.364	1.21
108-86-1	Bromobenzene		27.2	ug/kg	0.364	1.21
103-65-1	n-Propylbenzene		33.5	ug/kg	0.364	1.21
95-49-8	2-Chlorotoluene		30.9	ug/kg	0.364	1.21
98-82-8	Isopropylbenzene		40.1	ug/kg	0.364	1.21
108-67-8	1,3,5-Trimethylbenzene		34.7	ug/kg	0.364	1.21
106-43-4	4-Chlorotoluene		24.5	ug/kg	0.364	1.21
98-06-6	tert-Butylbenzene		39.1	ug/kg	0.364	1.21
95-63-6	1,2,4-Trimethylbenzene		30.3	ug/kg	0.364	1.21
135-98-8	sec-Butylbenzene		35.0	ug/kg	0.364	1.21
99-87-6	4-Isopropyltoluene		22.1	ug/kg	0.364	1.21
541-73-1	1,3-Dichlorobenzene		22.3	ug/kg	0.364	1.21
106-46-7	1,4-Dichlorobenzene		20.7	ug/kg	0.364	1.21
104-51-8	n-Butylbenzene		25.6	ug/kg	0.364	1.21
96-12-8	1,2-Dibromo-3-chloropropane		21.5	ug/kg	0.364	1.21
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	6.06	ug/kg	1.94	6.06
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		33.5	ug/kg	0.364	1.21
95-50-1	1,2-Dichlorobenzene		21.3	ug/kg	0.364	1.21

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030610v7/7b622.d

Lab Smp Id: 1202063557

Client Smp ID: RE36-10-7405MSD

Inj Date : 07-MAR-2010 00:04

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202063557|962059|1|VOAF|1|

Misc Info : LANL 5g N/A MSD 248197001

Comment :

Method : /chem/VOA7.i/030610v7/VOA7-8260B-021710.m

Meth Date : 22-Mar-2010 20:32 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 22

QC Sample: MSD

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-2121.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	17.50750	% 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	15.316	15.317	(1.000)	704249	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	439730	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.992	(1.000)	157177	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	266196	43.7495	53.0
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	745021	52.0562	63.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	221756	53.6357	65.0
4 Dichlorodifluoromethane	85	5.147	5.148	(0.336)	68043	31.0293	37.6
5 Chloromethane	50	5.757	5.757	(0.376)	169122	25.6726	31.1
6 Vinyl chloride	62	6.187	6.188	(0.404)	200394	34.2479	41.5
7 Bromomethane	94	7.418	7.419	(0.484)	72895	21.8506	26.5
8 Chloroethane	64	7.845	7.835	(0.512)	101249	33.8343	41.0
9 Trichlorofluoromethane	101	8.809	8.789	(0.575)	139658	31.1818	37.8

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
13 Acetone	43	10.423	10.413	(0.681)	336778	71.3931	86.5
14 1,1-Dichloroethylene	96	10.312	10.302	(0.673)	91186	29.7737	36.1
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	77381	17.0385	20.6 (R)
16 Iodomethane	142	10.667	10.667	(0.696)	543076	101.758	123 (R)
22 Methylene chloride	86	11.438	11.439	(0.747)	89205	31.0033	37.6
19 Carbon disulfide	76	10.840	10.830	(0.708)	1459672	135.479	164
25 trans-1,2-Dichloroethylene	61	12.017	12.017	(0.785)	156573	24.1819	29.3 (R)
28 1,1-Dichloroethane	63	12.799	12.789	(0.836)	252968	30.0242	36.4 (R)
31 2-Butanone	43	13.723	13.713	(0.896)	430051	81.7405	99.1
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	188156	25.1803	30.5 (R)
100 1,3-Dichlorobenzene	146	20.930	20.931	(0.997)	85678	18.4209	22.3 (R)
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	103412	29.5475	35.8
38 Chloroform	83	14.190	14.190	(0.926)	186952	26.6542	32.3 (R)
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	81987	17.5488	21.3 (R)
37 Bromochloromethane	49	14.088	14.088	(0.920)	150347	27.2165	33.0
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	143603	29.8348	36.2
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	127383	25.2767	30.6 (R)
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	103385	26.9942	32.7 (R)
47 1,2-Dichloroethane	62	14.971	14.982	(0.977)	158482	22.9010	27.8 (R)
48 Benzene	78	14.981	14.982	(0.978)	406346	26.3879	32.0 (R)
53 Trichloroethylene	95	15.763	15.763	(1.029)	89910	24.0978	29.2 (R)
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	142340	27.7587	33.6 (R)
59 Bromodichloromethane	83	16.332	16.332	(1.066)	131259	23.8678	28.9 (R)
58 Dibromomethane	93	16.179	16.180	(1.056)	63404	22.9231	27.8 (R)
63 4-Methyl-2-pentanone	58	16.941	16.931	(0.908)	269919	124.728	151
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	113549	16.9540	20.6 (R)
65 Toluene	92	17.215	17.215	(0.922)	205677	25.9791	31.5 (R)
67 trans-1,3-Dichloropropylene	75	17.387	17.388	(0.931)	94524	17.6185	21.4 (R)
68 1,1,2-Trichloroethane	83	17.611	17.601	(0.943)	81828	27.4325	33.2 (R)
69 2-Hexanone	43	17.794	17.794	(0.953)	348448	58.1870	70.5 (R)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	157945	25.8209	31.3 (R)
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	58283	26.6387	32.3
72 Dibromochloromethane	129	18.057	18.058	(0.967)	77947	24.2273	29.4 (R)
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	70710	21.8571	26.5 (R)
76 Chlorobenzene	112	18.697	18.697	(1.002)	172776	21.2011	25.7 (R)
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	77626	27.6419	33.5 (R)
78 Ethylbenzene	91	18.758	18.758	(1.005)	342139	23.1293	28.0 (R)
79 m,p-Xylenes	106	18.870	18.870	(1.011)	256072	45.9994	55.8 (R)
80 o-Xylene	106	19.286	19.286	(1.033)	137518	23.3188	28.3 (R)
81 Styrene	104	19.286	19.286	(1.033)	157247	16.6508	20.2 (R)
82 Bromoform	173	19.540	19.530	(0.931)	41437	27.5155	33.4
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	107369	30.1858	36.6
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	22911	29.6032	35.9
90 Bromobenzene	156	20.017	20.017	(0.954)	53504	22.4729	27.2 (R)
91 n-Propylbenzene	91	20.027	20.027	(0.954)	357255	27.6357	33.5
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	225240	25.4490	30.8
83 Isopropylbenzene	105	19.631	19.631	(0.935)	336658	33.1088	40.1

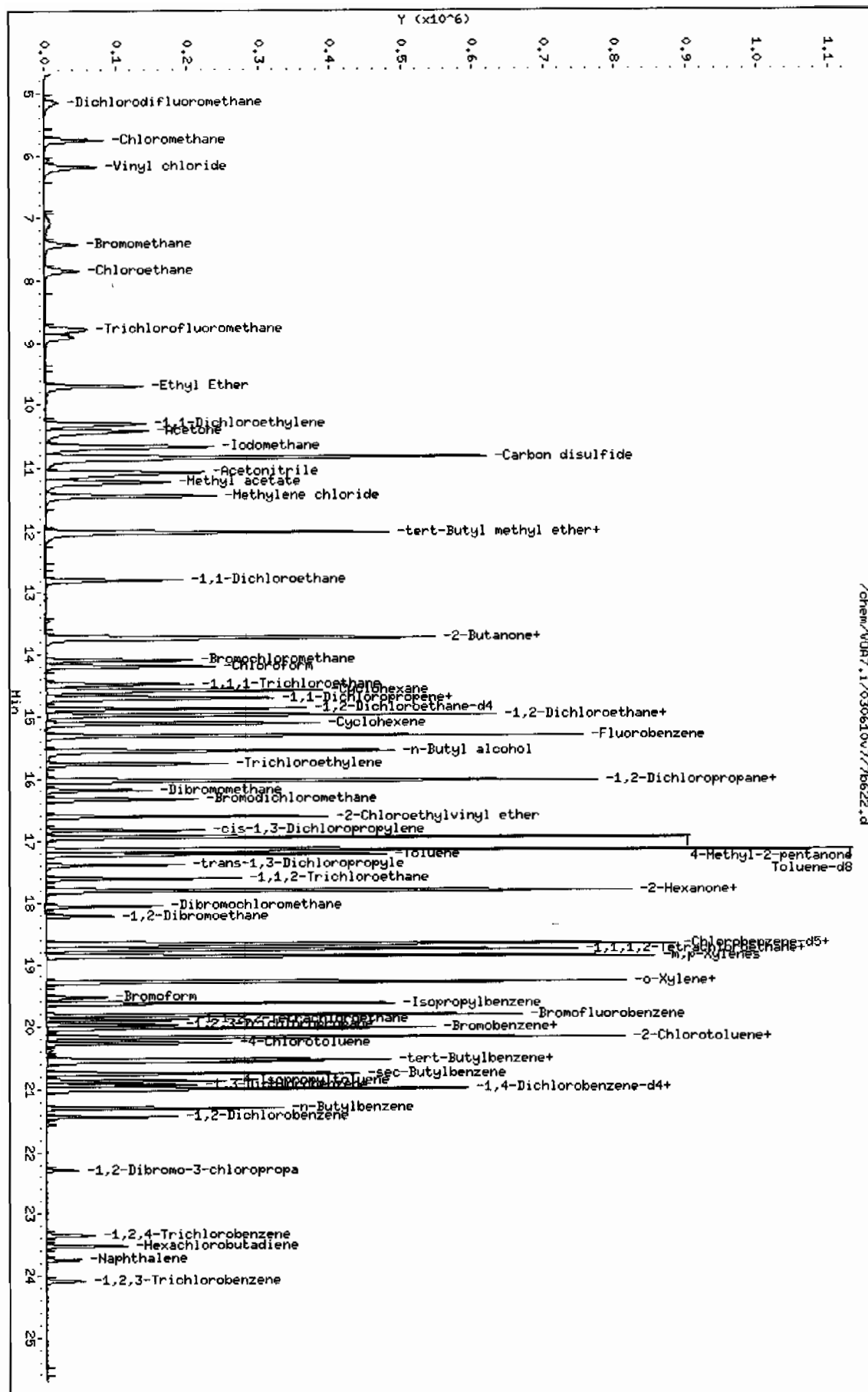
Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)	
=====	=====	==	=====	=====	=====	=====	=====	
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	240581	28.6331	34.7	
94 4-Chlorotoluene	91	20.271	20.261	(0.966)	160671	20.2236	24.5 (R)	
95 tert-Butylbenzene	119	20.524	20.525	(0.978)	245582	32.2648	39.1	
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	212216	24.9564	30.2	
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	323357	28.8487	35.0	
99 4-Isopropyltoluene	119	20.859	20.860	(0.994)	147398	18.1936	22.0	
104 n-Butylbenzene	91	21.296	21.296	(1.014)	198343	21.1330	25.6	
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	10000	17.6983	21.4 (R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/V007.1/030610v7/7b622.d
 Date: 07-MAR-2010 00:04
 Client ID: RES6-10-7405MSD
 Sample Info: 1202063567196205911V00AF111
 Column phase: DB-624

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



Miscellaneous Data

Prep Logbook

Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Batch ID: 962058 Verified by: _____
Analyst: Alex Olson
Method: SW846 5030
Lab SOP: GL-OA-E-038 REV# 14
Instrument: Sartorius Balance B-001

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
1202063556 PS (248197001)	05-MAR-2010 16:12:00	Soil	5	5	1	N/A						
1202063557 PSD (248197001)	05-MAR-2010 16:14:00	Soil	5	5	1	N/A						
248197002	05-MAR-2010 16:16:00	Soil	5	5	1	N/A						
248197003	05-MAR-2010 16:18:00	Soil	5	5	1	N/A						
248197004	05-MAR-2010 16:20:00	Soil	5	5	1	N/A						
248197005	05-MAR-2010 16:22:00	Soil	5	5	1	N/A						
248197006	05-MAR-2010 16:24:00	Misc Solid	5	5	1	N/A						
248197007	05-MAR-2010 16:26:00	Soil	5	5	1	N/A						
248197008	05-MAR-2010 16:28:00	Soil	5	5	1	N/A						
248197010	05-MAR-2010 16:32:00	Soil	5	5	1	N/A						
248197011	05-MAR-2010 16:34:00	Soil	5	5	1	N/A						
248197012	05-MAR-2010 16:36:00	Soil	5	5	1	N/A						
1202063555 MB	06-MAR-2010 11:30:00	Soil	5	5	1	N/A						
1202063558 LCS	06-MAR-2010 11:30:00	Soil	5	5	1	N/A						
1202063559 LCS	06-MAR-2010 11:30:00	Soil	5	5	1	N/A						
1202078255 MB	06-MAR-2010 18:00:00	Soil	5	5	1	N/A						
1202063560 LCS	06-MAR-2010 18:00:00	Soil	5	5	1	N/A						
1202063561 LCS	06-MAR-2010 18:00:00	Soil	5	5	1	N/A						
1202078256 MB	09-MAR-2010 09:00:00	Soil	5	5	1	N/A						
1202078257 LCS	09-MAR-2010 09:00:00	Soil	5	5	1	N/A						
1202078258 LCS	09-MAR-2010 09:00:00	Soil	5	5	1	N/A						
248197001	09-MAR-2010 14:40:00	Soil	5	5	1	N/A						
248197009	09-MAR-2010 14:46:00	Soil	5	5	1	N/A						
248197013	09-MAR-2010 14:52:00	Soil	5	5	1	N/A						

Reagent/Solvent Lot ID **Description** **Amount** **Comments:**

Date: 2/17/2010 Method 8260B/624 Operator: AX01
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: _____
Multiplier Voltage: 1941

CALIBRATION & CC INFORMATION:

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Initial Calibration Date: 2/17/2010

(See pg. 43 for ICAL Std. Sci. Ids)

NaHSO4 lot # N/A

Cl test lot # N/A

Sequence Number: 021710V7

Daily Standard

Solution ID#

LONG ICV W7VM100217-22

IS UVM100203-01

SS UVM100203-02

SHORT ICV W7VM100217-23

BFB UVM100203-02

Volume Added for Purge (ul)

Smpl Blk/ MS/

CCV LCS BFB

5+5

1 1 1

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 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.	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable (O/X)	Comments
2/17/2010	8:37	7Z301.D	120200----			5mL	1	N/A	1	w	AXO1	N/A	O	
2/17/2010	9:12	7Z302.D	W7VM100217-01	GEL	CCV	5mL	1	N/A	2	w	AXO1	N/A	X	UVM100106-07C/UVM100202-07C
2/17/2010	9:47	7Z303.D	W7VM100217-02	GEL	LCS	5mL	1	N/A	3	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	10:22	7Z304.D	W7VM100217-03	GEL	LCS	5g	1	N/A	4	s	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	11:21	7Z305.D	W7VM100217-04	GEL	LCS	5mL	1	N/A	5	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/17/2010	12:21	7Z306.D	120200----	GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X	
2/17/2010	12:54	7Z307.D	W7VM100217-05	GEL	LCS	5mL	1	N/A	2	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	14:55	7Z308.D	120200----	GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X	
2/17/2010	15:29	7Z309.D	UVM100203-02	GEL	BFB01	5mL	1	N/A	2	w	AXO1	N/A	O	
2/17/2010	16:02	7Z310.D	W7VM100217-06	GEL	VSTD001	5mL	1	N/A	3	w	AXO1	N/A	O	UVM100106-02C/UVM100202-02C
2/17/2010	16:35	7Z311.D	W7VM100217-07	GEL	VSTD002	5mL	1	N/A	4	w	AXO1	N/A	O	UVM100106-03C/UVM100202-03C
2/17/2010	17:09	7Z312.D	W7VM100217-08	GEL	VSTD005	5mL	1	N/A	5	w	AXO1	N/A	O	UVM100106-04C/UVM100202-04C
2/17/2010	17:44	7Z313.D	W7VM100217-09	GEL	VSTD010	5mL	1	N/A	6	w	AXO1	N/A	O	UVM100106-05C/UVM100202-05C
2/17/2010	18:20	7Z314.D	W7VM100217-10	GEL	VSTD020	5mL	1	N/A	7	w	AXO1	N/A	O	UVM100106-06C/UVM100202-06C
2/17/2010	18:55	7Z315.D	W7VM100217-11	GEL	VSTD050	5mL	1	N/A	8	w	AXO1	N/A	O	UVM100106-07C/UVM100202-07C
2/17/2010	19:30	7Z316.D	W7VM100217-12	GEL	VSTD100	5mL	1	N/A	9	w	AXO1	N/A	O	UVM100106-08C/UVM100202-08C
2/17/2010	20:05	7Z317.D	120200----	GEL	RINSE	5mL	1	N/A	10	w	AXO1	N/A	X	
2/17/2010	20:39	7Z318.D	W7VM100217-13	GEL	VSTD0005	5mL	1	N/A	11	w	AXO1	N/A	O	UVM100106-01C/UVM100202-01C
2/17/2010	21:14	7Z319.D	W7VM100217-14	GEL	VSTD0005S	5mL	1	N/A	12	w	AXO1	N/A	O	UVM100215-01/UVM100125-01D
2/17/2010	21:49	7Z320.D	W7VM100217-15	GEL	VSTD010S	5mL	1	N/A	13	w	AXO1	N/A	O	UVM100215-02/UVM100125-02D
2/17/2010	22:24	7Z321.D	W7VM100217-16	GEL	VSTD020S	5mL	1	N/A	14	w	AXO1	N/A	O	UVM100215-03/UVM100125-03D
2/17/2010	22:59	7Z322.D	W7VM100217-17	GEL	VSTD050S	5mL	1	N/A	15	w	AXO1	N/A	O	UVM100215-04/UVM100125-04D
2/17/2010	23:33	7Z323.D	W7VM100217-18	GEL	VSTD100S	5mL	1	N/A	16	w	AXO1	N/A	O	UVM100215-05/UVM100125-05D
2/18/2010	0:08	7Z324.D	W7VM100217-19	GEL	VSTD250S	5mL	1	N/A	17	w	AXO1	N/A	O	UVM100215-06/UVM100125-06D
2/18/2010	0:42	7Z325.D	W7VM100217-20	GEL	VSTD500S	5mL	1	N/A	18	w	AXO1	N/A	O	UVM100215-07/UVM100125-07D
2/18/2010	1:17	7Z326.D	120200----	GEL	RINSE	5mL	1	N/A	19	w	AXO1	N/A	X	
2/18/2010	1:52	7Z327.D	W7VM100217-21	GEL	ICV	5mL	1	N/A	20	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/18/2010	2:27	7Z328.D	W7VM100217-22	GEL	ICV	5mL	1	N/A	21	w	AXO1	N/A	O	UVM100126-01E/UVM100214-01
2/18/2010	3:03	7Z329.D	W7VM100217-23	GEL	SICV	5mL	1	N/A	22	w	AXO1	N/A	O	UVM091216-08B/UVM100125-08C
2/18/2010	3:38	7Z330.D	120200----	GEL	RINSE	5mL	1	N/A	23	w	AXO1	N/A	X	

Date: 3/6/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: Multiplier Voltage: 1941

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2010

(See pg. 43 for ICAL Std. Sds. Ids)

NaHSO4 lot # N/A

Cl test lot # N/A

Sequence Number: 030610V7

Daily Standard Volume Added for Purge (ul) MS/ Blk/

Solution ID#	CCV	W7VM100306-01	IS	UVM100217-01	SS	UVM100203-02	LCS/MS	W7VM100306-02/03	BFB	W7VM100306-05	SHORT	W7VM100306-04/05	DHEC
CCV	5+5	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
IS	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
SS	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
LCS/MS	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
BFB	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
SHORT	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5
DHEC	1	1	1	1	1	1	5+5	1	1	5+5	5+5	5+5	5+5

Purge Amount

Purge	Amount
Water Purge Vol:	5
Soil Purge Wt.	5g
Mid level ext. MeOH Vol:	N/A
ul	N/A
Methanol Lot #	N/A
Heated Purge	x

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol.(ml/ul)	Dil.	Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable (O/X)	Comments
6 Mar 2010 12:08		7B601.D	120200----												
6 Mar 2010 12:41		7B602.D	W7VM100306-01			5mL	1	1	N/A	1	w	AXO1	N/A	X	UVM1001006-07D/UVM100222-07
6 Mar 2010 13:15		7B603.D	W7VM100306-02			5mL	1	1	N/A	2	w	AXO1	N/A	O	UVM100220-01D/UVM100304-01 not required
6 Mar 2010 14:06		7B604.D	W7VM100306-03			5g	1	1	N/A	3	w	AXO1	N/A	X	UVM100220-01D/UVM100304-01
6 Mar 2010 14:39		7B605.D	W7VM100306-04			5mL	1	1	N/A	4	s	AXO1	N/A	O	UVM091216-08B/UVM100125-08E
6 Mar 2010 15:13		7B606.D	W7VM100306-05			5g	1	1	N/A	5	w	AXO1	N/A	O	UVM091216-08B/UVM100125-08E
6 Mar 2010 15:46		7B607.D	120200----			5mL	1	1	N/A	6	s	AXO1	N/A	X	not required
6 Mar 2010 16:19		7B608.D	120200----			5g	1	1	N/A	7	w	AXO1	N/A	X	not required
6 Mar 2010 16:52		7B609.D	248165012			5g	1	1	N/A	8	s	AXO1	N/A	O	IS failure confirms
6 Mar 2010 17:25		7B610.D	248165018			5g	1	1	N/A	9	s	AXO1	N/A	X	IS failure confirms
6 Mar 2010 17:58		7B611.D	248197001			5g	1	1	N/A	10	s	AXO1	N/A	X	RR for IS failure confirm
6 Mar 2010 18:31		7B612.D	248197002			5g	1	1	N/A	11	s	AXO1	N/A	X	RR for IS failure confirm
6 Mar 2010 19:03		7B613.D	248197003			5g	1	1	N/A	12	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 19:36		7B614.D	248197004			5g	1	1	N/A	13	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 20:09		7B615.D	248197005			5g	1	1	N/A	14	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 20:42		7B616.D	248197006			5g	1	1	N/A	15	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 21:16		7B617.D	248197007			5g	1	1	N/A	16	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 21:50		7B618.D	248197008			5g	1	1	N/A	17	s	AXO1	N/A	O	RR for IS failure confirm
6 Mar 2010 22:23		7B619.D	248197009			5g	1	1	N/A	18	s	AXO1	N/A	X	RR for IS failure confirm
6 Mar 2010 22:56		7B620.D	248197010			5g	1	1	N/A	19	s	AXO1	N/A	X	RR for IS failure confirm
6 Mar 2010 23:30		7B621.D	1202063556			5g	1	1	N/A	20	s	AXO1	N/A	X	MS 248197001 RR for recovery failure
7 Mar 2010 00:04		7B622.D	1202063557			5g	1	1	N/A	21	s	AXO1	N/A	X	MSD 248197001 RR for recovery failure

Date: 3/6/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: Multiplier Voltage: 1941

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2010

(See pg. 43 for ICAL Std. Sol. Ids)

NaHSO4 lot # N/A

Cl test lot # N/A

Sequence Number: 030610V7PM

Daily Standard Volume Added for Purge (ul)

Solution ID#	CCV	IS	SS	LCS/MS	BFB	SHORT	DHEC
W7VM100306-05	1	1	1	5+5	1	1	1
W7VM100217-01	1	1	1	5+5	1	1	1
W7VM100203-02	1	1	1	5+5	1	1	1
W7VM100306-06	1	1	1	5+5	1	1	1
W7VM100203-02	1	1	1	5+5	1	1	1
W7VM100306-07	1	1	1	5+5	1	1	1

Purge Amount

5	Water Purge Vol:
5g	Soil Purge Wt.
N/A	Mld level ext. MeOH Vol:
N/A	ul
N/A	Methanol Lot #
x	Heated Purge

Analysis		Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil.	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable (O/X)	Comments
Date	Time													
7 Mar 2010	00:38	7B623.D	120200-....	GEL	RINSE	5mL	1	N/A	23	w	AXO1	N/A	X	
7 Mar 2010	01:12	7B624.D	W7VM100306-05	GEL	BFB/CCV/LCS	5mL	1	N/A	24	w	AXO1	N/A	O	UVM1001006-07D/UVM100222-07
7 Mar 2010	01:46	7B625.D	W7VM100306-06	GEL	LCS	5g	1	N/A	25	s	AXO1	N/A	O	UVM100220-01D/UVM100304-01
7 Mar 2010	02:19	7B626.D	W7VM100306-07	GEL	SHORT/SLCS	5g	1	N/A	26	w	AXO1	N/A	O	UVM091216-08B/UVM100125-08E
7 Mar 2010	02:53	7B627.D	120200-....	GEL	BLANK	5g	1	N/A	27	s	AXO1	N/A	O	
7 Mar 2010	03:27	7B628.D	248197011	LANL	962059	5g	1	N/A	28	s	AXO1	N/A	O	
7 Mar 2010	04:00	7B629.D	248197012	LANL	962059	5g	1	N/A	29	s	AXO1	N/A	X	RR for IS failure confirm
7 Mar 2010	04:34	7B630.D	248197013	LANL	962059	5g	1	N/A	30	s	AXO1	N/A	X	RR for IS failure confirm
7 Mar 2010	05:07	7B631.D	248161001	LANL	962061	5g	1	N/A	31	s	AXO1	N/A	O	
7 Mar 2010	05:41	7B632.D	248161002	LANL	962061	5g	1	N/A	32	s	AXO1	N/A	O	
7 Mar 2010	06:15	7B633.D	248161003	LANL	962061	5g	1	N/A	33	s	AXO1	N/A	O	
7 Mar 2010	06:48	7B634.D	248161004	LANL	962061	5g	1	N/A	34	s	AXO1	N/A	X	RR for IS failure confirm
7 Mar 2010	07:22	7B635.D	248161005	LANL	962061	5g	1	N/A	35	s	AXO1	N/A	O	
7 Mar 2010	07:56	7B636.D	248161006	LANL	962061	5g	1	N/A	36	s	AXO1	N/A	O	
7 Mar 2010	08:29	7B637.D	248161007	LANL	962061	5g	1	N/A	37	s	AXO1	N/A	O	
7 Mar 2010	09:02	7B638.D	248203001	LANL	962061	5g	1	N/A	38	s	AXO1	N/A	O	
7 Mar 2010	09:35	7B639.D	248203002	LANL	962061	5g	1	N/A	39	s	AXO1	N/A	O	
7 Mar 2010	10:08	7B640.D	1202063569	LANL	962061	5g	1	N/A	40	s	AXO1	N/A	X	MS 248161001 RR for failure confirm
7 Mar 2010	10:42	7B641.D	1202063560	LANL	962061	5g	1	N/A	41	s	AXO1	N/A	X	MSD 248161001 RR for failure confirm
7 Mar 2010	11:15	7B642.D	1202063575	LANL	962061	5g	1	N/A	42	s	AXO1	N/A	X	MS 248203002
7 Mar 2010	11:48	7B643.D	1202063576	LANL	962061	5g	1	N/A	43	s	AXO1	N/A	X	MSD 248203002

Date: 3/9/2010 Method 8260B/624 Operator: AXO1
REVIEWED BY: _____
DATE: _____
Daily Instrument Readings: Multiplier Voltage: 1941

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2010

(See pg. 43 for ICAL Std. Sci. Ids)

NaHSO4 lot # N/A

Ci test lot # n/a

Sequence Number: 030910v7

Daily Standard Volume Added for Purge (ul) MS/ Blk/ Smpl CCV LCS BFB

Solution ID#	CCV	W7VM100309-01	IS	UVM100217-01	SS	UVM100203-02	LCS/MS	W7VM100309-02/03	BFB	UVM100203-02	SHORT	W7VM100309-04/05	DHEC
5	Water Purge Vol:	5g	Soil Purge Wt.	Y	Mid level ext. MeOH Vol:	100	ul	DA057	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
9 Mar 2010	09:57	7C201.D		120200-....	W7VM100309-01	GEL	RINSE	5mL	1	1	N/A	1	w	AXO1	N/A	X	
9 Mar 2010	10:30	7C202.D		120200-....	W7VM100309-01	GEL	BFB/CCV	5mL	1	1	N/A	2	w	AXO1	N/A	O	UVM1001006-07D/UVM100222-07
9 Mar 2010	11:04	7C203.D		120200-....	W7VM100309-02	GEL	LCS	5mL	1	1	N/A	3	w	AXO1	N/A	O	UVM100220-01E/UVM100308-01
9 Mar 2010	11:38	7C204.D		120200-....	W7VM100309-03	GEL	LCS	5g	1	1	N/A	4	s	AXO1	N/A	O	UVM100220-01E/UVM100308-01
9 Mar 2010	12:11	7C205.D		120200-....	W7VM100309-04	GEL	SHORT/SLCS	5mL	1	1	N/A	5	w	AXO1	N/A	O	UVM100215-08B
9 Mar 2010	12:45	7C206.D		120200-....	W7VM100309-05	GEL	SLCS	5g	1	1	N/A	6	s	AXO1	N/A	O	UVM100215-08B
9 Mar 2010	13:20	7C207.D		120200-....	120200-....	GEL	BLANK	5mL	1	1	N/A	7	w	AXO1	N/A	O	
9 Mar 2010	13:54	7C208.D		120200-....	120200-....	GEL	BLANK	5g	1	1	N/A	8	s	AXO1	N/A	O	
9 Mar 2010	14:37	7C209.D		120200-....	247914001	CARE	962571	0.1mL	50	1	N/A	9	s	AXO1	N/A	O	
9 Mar 2010	15:11	7C210.D		120200-....	247923001	CARE	962571	0.1mL	50	1	N/A	10	s	AXO1	N/A	O	
9 Mar 2010	15:45	7C211.D		120200-....	247927001	CARE	962571	0.1mL	50	1	N/A	11	s	AXO1	N/A	O	
9 Mar 2010	16:19	7C212.D		120200-....	247930001	CARE	962571	0.1mL	50	1	N/A	12	s	AXO1	N/A	O	
9 Mar 2010	16:53	7C213.D		120200-....	247933001	CARE	962571	0.1mL	50	1	N/A	13	s	AXO1	N/A	O	
9 Mar 2010	17:26	7C214.D		120200-....	248197001	LANL	962059	5g	1	1	N/A	14	s	AXO1	N/A	O	
9 Mar 2010	18:00	7C215.D		120200-....	248197009	LANL	962059	5g	1	1	N/A	15	s	AXO1	N/A	O	
9 Mar 2010	18:33	7C216.D		120200-....	248197010	LANL	962059	5g	1	1	N/A	16	s	AXO1	N/A	X	RR for SS failure confirm
9 Mar 2010	19:07	7C217.D		120200-....	248197012	LANL	962059	5g	1	1	N/A	17	s	AXO1	N/A	X	RR for SS failure confirm
9 Mar 2010	19:40	7C218.D		120200-....	248197013	LANL	962059	5g	1	1	N/A	18	s	AXO1	N/A	O	
9 Mar 2010	20:13	7C219.D		120200-....	248161004	LANL	962059	5g	1	1	N/A	19	s	AXO1	N/A	O	
9 Mar 2010	20:46	7C220.D		120200-....	1202063556	LANL	962059	5g	1	1	N/A	20	s	AXO1	N/A	X	MS 248197001 Confirms recovery failures
9 Mar 2010	21:19	7C221.D		120200-....	1202063557	LANL	962059	5g	1	1	N/A	21	s	AXO1	N/A	X	MSD 248197001 confirms recovery failures

DATA EXCEPTION REPORT

Mo.Day Yr. 23-MAR-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: 962059	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248197(10-2121) Application Issues: Failed Recovery for MS/PS Other Failed Recovery for MSD/PSD			
Specification and Requirements		DER Disposition:	
Exception Description: 1. The Matrix Spike 1202063556 did not meet recovery acceptance criteria for numerous target analytes. 2. The Matrix Spike Duplicate 1202063557 did not meet recovery acceptance criteria for numerous target analytes. 3. LANL sample 248197010, 012 did not meet recovery acceptance criteria for internal standard response.		1.,2., The Matrix Spike and Matrix Spike Duplicate did not meet acceptance criteria. However, as the MS and MSD displayed similar recoveries, the unacceptable recoveries were attributed to sample matrix interference and the data have been reported. 3., Narrate and report data. LANL samples 248197010, 012 did not meet acceptance criteria for internal standard response. Sample re-analysis confirms the matrix effect.	

Originator's Name:

Alex Olson

23-MAR-10

Data Validator/Group Leader:

Kelle Bellamy

25-MAR-10

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2121**

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:	960459
Prep Batch Number:	960457

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
248197001	RE36-10-7405
248197002	RE36-10-7403
248197003	RE36-10-7406
248197004	RE36-10-7404
248197005	RE36-10-7516
248197007	RE36-10-7426
248197008	RE36-10-7432
248197009	RE36-10-7431
248197010	RE36-10-7434
248197011	RE36-10-7425
248197012	RE36-10-7429
248197013	RE36-10-7433
1202060169	Method Blank (MB)
1202060170	Laboratory Control Sample (LCS)
1202060171	248203002(WST36-10-8928) Matrix Spike (MS)
1202060172	248203002(WST36-10-8928) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 23.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

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

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms.

Initial calibration and continuing calibration requirements may not be satisfied for all requested target analytes analyzed according to Method 8270D. However, the method allows for a designated number of outliers dependent on the requested analyte list. Please see the Initial Calibration and/or CCV Requirements Section of the case narrative for any samples impacted by calibration failures.

When calibrations are performed for Appendix IX compounds some of the compounds may not be calibrated exactly according to the criteria in Method 8270C. If the %RSD is greater than 15% or the correlation coefficient is less than 0.99 then the analyte is quantitated using the response factor. If the analyte is detected then the sample is re-analyzed for that analyte on an instrument that is compliant with the criteria of the method.

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

Samples 248197009 (RE36-10-7431DL) and 248197011 (RE36-10-7425DL) were analyzed at 40X and 20X dilutions, respectively. As a result, some surrogates were diluted out of their established recovery acceptance limits. Please see the surrogate recovery report for the specific failures.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 248203002 (WST36-10-8928) was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement

The MS(1202060171) spike recovery for Di-n-octylphthalate was 172% (limits: 31%-143%). The MSD(1202060172) displayed a similarly high (but passing) recovery for Di-n-octylphthalate. Therefore, the high recoveries were attributed to sample matrix interference and the data were reported.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within their established acceptance limits.

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Samples 1202060171 (WST36-10-8928), 1202060172 (WST36-10-8928), 248197001 (RE36-10-7405), 248197002 (RE36-10-7403), 248197003 (RE36-10-7406), 248197004 (RE36-10-7404), 248197005 (RE36-10-7516), 248197007 (RE36-10-7426), 248197008 (RE36-10-7432), 248197009 (RE36-10-7431), 248197010 (RE36-10-7434), 248197011 (RE36-10-7425), 248197012 (RE36-10-7429) and 248197013 (RE36-10-7433) were diluted due to the presence of non-target analytes.

Samples 248197001 (RE36-10-7405) and 248197009 (RE36-10-7431) were diluted due to the presence of overrange target analytes.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG except for confirmations and/or dilutions.

Miscellaneous Information**Data Exception (DER) Documentation**

The following DER was generated for this SDG: 804954. 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 SDG.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD3.I	HP Mass Spectrometer	HP7890A/HP5975C	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

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

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer: Don Berchany Date: 3-25-10

Roadmap for LANL 10-2121 SVOA

This roadmap was analyzed by jcn00986 on 03-17-2010, 12:17.

This roadmap was packaged by CHA01131 on 03-25-2010, 10:08.

Sample										
exclude	manual	datafile	smplid	injdate	injtime	sublist	clientid	dilution	batchid	comment
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0920.d	248197001	09-MAR-2010	19:12	10-2121.sub	RE36-10-7405	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0921.d	248197002	09-MAR-2010	19:37	10-2121.sub	RE36-10-7403	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0922.d	248197003	09-MAR-2010	20:01	10-2121.sub	RE36-10-7406	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0923.d	248197004	09-MAR-2010	20:25	10-2121.sub	RE36-10-7404	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0924.d	248197005	09-MAR-2010	20:49	10-2121.sub	RE36-10-7516	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0925.d	248197007	09-MAR-2010	21:13	10-2121.sub	RE36-10-7426	1	960459	DOSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0926.d	248197008	09-MAR-2010	21:37	10-2121.sub	RE36-10-7432	1	960459	DOSE RR-OR hits
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0927.d	248197009	09-MAR-2010	22:02	10-2121.sub	RE36-10-7431	1	960459	DOSE RR-OR hits & 1std failure
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0928.d	248197010	09-MAR-2010	22:27	10-2121.sub	RE36-10-7434	1	960459	DOSE RR-OR hits in prior sample
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0929.d	248197011	09-MAR-2010	22:50	10-2121.sub	RE36-10-7425	1	960459	DOSE RR-OR hits
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0930.d	248197012	09-MAR-2010	23:14	10-2121.sub	RE36-10-7429	1	960459	DOSE RR-OR hits in prior sample
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0931.d	248197013	09-MAR-2010	23:38	10-2121.sub	RE36-10-7433	1	960459	DOSE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1315.d	248197001	13-MAR-2010	15:38	10-2121.sub	RE36-10-7405	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1316.d	248197002	13-MAR-2010	15:58	10-2121.sub	RE36-10-7403	4	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1317.d	248197003	13-MAR-2010	16:17	10-2121.sub	RE36-10-7406	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1318.d	248197004	13-MAR-2010	16:36	10-2121.sub	RE36-10-7404	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1319.d	248197005	13-MAR-2010	16:56	10-2121.sub	RE36-10-7516	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1320.d	248197007	13-MAR-2010	17:15	10-2121.sub	RE36-10-7426	4	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1321.d	248197008	13-MAR-2010	17:34	10-2121.sub	RE36-10-7432	2	960459	USE
<input checked="" type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1322.d	248197010	13-MAR-2010	17:54	10-2121.sub	RE36-10-7434	2	960459	DOSE; fail 1std; SEE S3C1517
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1323.d	248197012	13-MAR-2010	18:13	10-2121.sub	RE36-10-7429	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1324.d	248197013	13-MAR-2010	18:32	10-2121.sub	RE36-10-7433	2	960459	USE

<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1331.d	248197009	13-MAR-2010	20:47	10-2121.sub	RE36-10-7431DL	40	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1332.d	248197009	13-MAR-2010	21:07	10-2121.sub	RE36-10-7431	4	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1334.d	248197011	13-MAR-2010	21:45	10-2121.sub	RE36-10-7425DL	20	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1335.d	248197011	13-MAR-2010	22:04	10-2121.sub	RE36-10-7425	2	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031510.b/s3c1517.d	248197010	15-MAR-2010	19:04	10-2121.sub	RE36-10-7434	2	960459	USE; RR OF S3C1322; ISID FASS

QC Sample

exclude	manual	datafile	smid	sampletype	injdate	injtime	sublist	clientid	dilution	batchid	comment
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0911.d	1202060169	mb	09-MAR-2010	15:21	10-2121.sub	SBLK01	1	960459	DUSE
<input checked="" type="checkbox"/>	N	/chem/MSD6.i/s030910.b/s6c0912.d	1202060170	lcs	09-MAR-2010	15:44	10-2121.sub	SBLK01LCS	1	960459	DUSE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1307-1.d	1202060169	mb	13-MAR-2010	12:59	10-2121.sub	SBLK01	1	960459	USE
<input type="checkbox"/>	N	/chem/MSD3.i/s031310.b/s3c1308-1.d	1202060170	lcs	13-MAR-2010	13:19	10-2121.sub	SBLK01LCS	1	960459	USE

Sample Data Summary

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 15:58	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s3c1316.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	1550	ug/kg	309	1550
108-95-2	Phenol	U	1550	ug/kg	309	1550
95-57-8	2-Chlorophenol	U	1550	ug/kg	309	1550
106-46-7	1,4-Dichlorobenzene	U	1550	ug/kg	309	1550
621-64-7	N-Nitrosodipropylamine	U	1550	ug/kg	309	1550
59-50-7	4-Chloro-3-methylphenol	U	1550	ug/kg	309	1550
83-32-9	Acenaphthene	U	155	ug/kg	51.0	155
121-14-2	2,4-Dinitrotoluene	U	1550	ug/kg	155	1550
100-02-7	4-Nitrophenol	U	1550	ug/kg	510	1550
87-86-5	Pentachlorophenol	U	1550	ug/kg	386	1550
129-00-0	Pyrene		412	ug/kg	46.4	155
110-86-1	Pyridine	U	1550	ug/kg	309	1550
62-53-3	Aniline	U	1550	ug/kg	464	1550
111-44-4	bis(2-Chloroethyl) ether	U	1550	ug/kg	309	1550
541-73-1	1,3-Dichlorobenzene	U	1550	ug/kg	309	1550
100-51-6	Benzyl alcohol	U	1550	ug/kg	464	1550
95-50-1	1,2-Dichlorobenzene	U	1550	ug/kg	309	1550
108-60-1	bis(2-Chloroisopropyl)ether	U	1550	ug/kg	309	1550
95-48-7	o-Cresol	U	1550	ug/kg	309	1550
65794-96-9	m,p-Cresols	U	1550	ug/kg	464	1550
67-72-1	Hexachloroethane	U	1550	ug/kg	309	1550
98-95-3	Nitrobenzene	U	1550	ug/kg	309	1550
78-59-1	Isophorone	U	1550	ug/kg	309	1550
88-75-5	2-Nitrophenol	U	1550	ug/kg	309	1550
105-67-9	2,4-Dimethylphenol	U	1550	ug/kg	541	1550
111-91-1	bis(2-Chloroethoxy)methane	U	1550	ug/kg	309	1550
120-83-2	2,4-Dichlorophenol	U	1550	ug/kg	309	1550
65-85-0	Benzoic acid	U	3090	ug/kg	773	3090
91-20-3	Naphthalene	U	155	ug/kg	46.4	155
106-47-8	4-Chloroaniline	U	1550	ug/kg	309	1550
87-68-3	Hexachlorobutadiene	U	1550	ug/kg	309	1550
91-57-6	2-Methylnaphthalene	U	155	ug/kg	30.9	155
77-47-4	Hexachlorocyclopentadiene	U	1550	ug/kg	309	1550
88-06-2	2,4,6-Trichlorophenol	U	1550	ug/kg	309	1550
95-95-4	2,4,5-Trichlorophenol	U	1550	ug/kg	309	1550
91-58-7	2-Chloronaphthalene	U	155	ug/kg	51.0	155
88-74-4	2-Nitroaniline	U	1550	ug/kg	309	1550
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1550	ug/kg	309	1550

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	%Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 15:58	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s3c1316.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	1550	ug/kg	309	1550
606-20-2	2,6-Dinitrotoluene	U	1550	ug/kg	155	1550
208-96-8	Acenaphthylene	U	155	ug/kg	46.4	155
51-28-5	2,4-Dinitrophenol	U	3090	ug/kg	587	3090
132-64-9	Dibenzofuran	U	1550	ug/kg	309	1550
84-66-2	Diethylphthalate	U	1550	ug/kg	309	1550
86-73-7	Fluorene	U	155	ug/kg	46.4	155
7005-72-3	4-Chlorophenylphenylether	U	1550	ug/kg	309	1550
534-52-1	2-Methyl-4,6-dinitrophenol	U	1550	ug/kg	309	1550
100-01-6	4-Nitroaniline	U	1550	ug/kg	464	1550
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1550	ug/kg	309	1550
122-66-7	Azobenzene	U	1550	ug/kg	309	1550
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1550	ug/kg	309	1550
118-74-1	Hexachlorobenzene	U	1550	ug/kg	309	1550
85-01-8	Phenanthrene		265	ug/kg	46.4	155
120-12-7	Anthracene	J	48.4	ug/kg	30.9	155
84-74-2	Di-n-butylphthalate	U	1550	ug/kg	309	1550
206-44-0	Fluoranthene		411	ug/kg	46.4	155
85-68-7	Butylbenzylphthalate	U	1550	ug/kg	309	1550
56-55-3	Benzo(a)anthracene		242	ug/kg	46.4	155
91-94-1	3,3'-Dichlorobenzidine	U	1550	ug/kg	464	1550
218-01-9	Chrysene		267	ug/kg	46.4	155
117-81-7	bis(2-Ethylhexyl)phthalate	U	1550	ug/kg	309	1550
117-84-0	Di-n-octylphthalate	U	1550	ug/kg	309	1550
205-99-2	Benzo(b)fluoranthene		705	ug/kg	46.4	155
207-08-9	Benzo(k)fluoranthene	U	155	ug/kg	46.4	155
50-32-8	Benzo(a)pyrene		234	ug/kg	46.4	155
193-39-5	Indeno(1,2,3-cd)pyrene		157	ug/kg	46.4	155
53-70-3	Dibenzo(a,h)anthracene	U	155	ug/kg	46.4	155
191-24-2	Benzo(ghi)perylene	J	153	ug/kg	46.4	155
120-82-1	1,2,4-Trichlorobenzene	U	1550	ug/kg	309	1550

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.83	690	ug/kg		J
	Unknown	8	1260	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7403
Batch ID: 960459
Run Date: 03/13/2010 15:58
Prep Date: 03/03/2010 23:09
Data File: s3c1316.d

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	8.43	1620	ug/kg		J
	Unknown	8.54	810	ug/kg		J
	Unknown	9.66	4340	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1000	ug/kg	91	NJ
1058-61-3	Stigmast-4-en-3-one	11.96	799	ug/kg	93	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197004

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 11.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7404
Batch ID: 960459
Run Date: 03/13/2010 16:36
Prep Date: 03/03/2010 23:09
Data File: s3c1318.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	753	ug/kg	151	753
108-95-2	Phenol	U	753	ug/kg	151	753
95-57-8	2-Chlorophenol	U	753	ug/kg	151	753
106-46-7	1,4-Dichlorobenzene	U	753	ug/kg	151	753
621-64-7	N-Nitrosodipropylamine	U	753	ug/kg	151	753
59-50-7	4-Chloro-3-methylphenol	U	753	ug/kg	151	753
83-32-9	Acenaphthene	U	75.3	ug/kg	24.8	75.3
121-14-2	2,4-Dinitrotoluene	U	753	ug/kg	75.3	753
100-02-7	4-Nitrophenol	U	753	ug/kg	248	753
87-86-5	Pentachlorophenol	U	753	ug/kg	188	753
129-00-0	Pyrene		379	ug/kg	22.6	75.3
110-86-1	Pyridine	U	753	ug/kg	151	753
62-53-3	Aniline	U	753	ug/kg	226	753
111-44-4	bis(2-Chloroethyl) ether	U	753	ug/kg	151	753
541-73-1	1,3-Dichlorobenzene	U	753	ug/kg	151	753
100-51-6	Benzyl alcohol	U	753	ug/kg	226	753
95-50-1	1,2-Dichlorobenzene	U	753	ug/kg	151	753
108-60-1	bis(2-Chloroisopropyl)ether	U	753	ug/kg	151	753
95-48-7	o-Cresol	U	753	ug/kg	151	753
65794-96-9	m,p-Cresols	U	753	ug/kg	226	753
67-72-1	Hexachloroethane	U	753	ug/kg	151	753
98-95-3	Nitrobenzene	U	753	ug/kg	151	753
78-59-1	Isophorone	U	753	ug/kg	151	753
88-75-5	2-Nitrophenol	U	753	ug/kg	151	753
105-67-9	2,4-Dimethylphenol	U	753	ug/kg	263	753
111-91-1	bis(2-Chloroethoxy)methane	U	753	ug/kg	151	753
120-83-2	2,4-Dichlorophenol	U	753	ug/kg	151	753
65-85-0	Benzoic acid	U	1510	ug/kg	376	1510
91-20-3	Naphthalene	U	75.3	ug/kg	22.6	75.3
106-47-8	4-Chloroaniline	U	753	ug/kg	151	753
87-68-3	Hexachlorobutadiene	U	753	ug/kg	151	753
91-57-6	2-Methylnaphthalene	U	75.3	ug/kg	15.1	75.3
77-47-4	Hexachlorocyclopentadiene	U	753	ug/kg	151	753
88-06-2	2,4,6-Trichlorophenol	U	753	ug/kg	151	753
95-95-4	2,4,5-Trichlorophenol	U	753	ug/kg	151	753
91-58-7	2-Chloronaphthalene	U	75.3	ug/kg	24.8	75.3
88-74-4	2-Nitroaniline	U	753	ug/kg	151	753
99-09-2	3-Nitroaniline	U	753	ug/kg	151	753

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

SDG Number: 10-2121
Lab Sample ID: 248197004

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 11.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7404
Batch ID: 960459
Run Date: 03/13/2010 16:36
Prep Date: 03/03/2010 23:09
Data File: s3c1318.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	753	ug/kg	151	753
606-20-2	2,6-Dinitrotoluene	U	753	ug/kg	75.3	753
208-96-8	Acenaphthylene	U	75.3	ug/kg	22.6	75.3
51-28-5	2,4-Dinitrophenol	U	1510	ug/kg	286	1510
132-64-9	Dibenzofuran	U	753	ug/kg	151	753
84-66-2	Diethylphthalate	U	753	ug/kg	151	753
86-73-7	Fluorene	U	75.3	ug/kg	22.6	75.3
7005-72-3	4-Chlorophenylphenylether	U	753	ug/kg	151	753
534-52-1	2-Methyl-4,6-dinitrophenol	U	753	ug/kg	151	753
100-01-6	4-Nitroaniline	U	753	ug/kg	226	753
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	753	ug/kg	151	753
122-66-7	Azobenzene	U	753	ug/kg	151	753
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	753	ug/kg	151	753
118-74-1	Hexachlorobenzene	U	753	ug/kg	151	753
85-01-8	Phenanthrene		252	ug/kg	22.6	75.3
120-12-7	Anthracene	J	42.0	ug/kg	15.1	75.3
84-74-2	Di-n-butylphthalate	U	753	ug/kg	151	753
206-44-0	Fluoranthene		362	ug/kg	22.6	75.3
85-68-7	Butylbenzylphthalate	U	753	ug/kg	151	753
56-55-3	Benzo(a)anthracene		190	ug/kg	22.6	75.3
91-94-1	3,3'-Dichlorobenzidine	U	753	ug/kg	226	753
218-01-9	Chrysene		208	ug/kg	22.6	75.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	753	ug/kg	151	753
117-84-0	Di-n-octylphthalate	U	753	ug/kg	151	753
205-99-2	Benzo(b)fluoranthene		414	ug/kg	22.6	75.3
207-08-9	Benzo(k)fluoranthene	U	75.3	ug/kg	22.6	75.3
50-32-8	Benzo(a)pyrene		194	ug/kg	22.6	75.3
193-39-5	Indeno(1,2,3-cd)pyrene		117	ug/kg	22.6	75.3
53-70-3	Dibenzo(a,h)anthracene	U	75.3	ug/kg	22.6	75.3
191-24-2	Benzo(ghi)perylene		123	ug/kg	22.6	75.3
120-82-1	1,2,4-Trichlorobenzene	U	753	ug/kg	151	753

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.52	342	ug/kg		JA
	Unknown	6.93	345	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 16:36	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1318.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	7.83	316	ug/kg		J
	Unknown	8	413	ug/kg		J
	Unknown	8.43	1870	ug/kg		J
	Unknown	8.85	1500	ug/kg		J
112-95-8	Eicosane	8.93	822	ug/kg	93	NJ
	Unknown	9.66	2670	ug/kg		J
	Unknown	10.44	1030	ug/kg		J
	Unknown	10.71	622	ug/kg		J
83-46-5	.beta.-Sitosterol	11.07	939	ug/kg	93	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	663	ug/kg	84	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197001

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 17.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7405
Batch ID: 960459
Run Date: 03/13/2010 15:38
Prep Date: 03/03/2010 23:09
Data File: s3c1315.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	805	ug/kg	161	805
108-95-2	Phenol	U	805	ug/kg	161	805
95-57-8	2-Chlorophenol	U	805	ug/kg	161	805
106-46-7	1,4-Dichlorobenzene	U	805	ug/kg	161	805
621-64-7	N-Nitrosodipropylamine	U	805	ug/kg	161	805
59-50-7	4-Chloro-3-methylphenol	U	805	ug/kg	161	805
83-32-9	Acenaphthene	U	80.5	ug/kg	26.6	80.5
121-14-2	2,4-Dinitrotoluene	U	805	ug/kg	80.5	805
100-02-7	4-Nitrophenol	U	805	ug/kg	266	805
87-86-5	Pentachlorophenol	U	805	ug/kg	201	805
129-00-0	Pyrene	J	50.8	ug/kg	24.1	80.5
110-86-1	Pyridine	U	805	ug/kg	161	805
62-53-3	Aniline	U	805	ug/kg	241	805
111-44-4	bis(2-Chloroethyl) ether	U	805	ug/kg	161	805
541-73-1	1,3-Dichlorobenzene	U	805	ug/kg	161	805
100-51-6	Benzyl alcohol	U	805	ug/kg	241	805
95-50-1	1,2-Dichlorobenzene	U	805	ug/kg	161	805
108-60-1	bis(2-Chloroisopropyl) ether	U	805	ug/kg	161	805
95-48-7	o-Cresol	U	805	ug/kg	161	805
65794-96-9	m,p-Cresols	U	805	ug/kg	241	805
67-72-1	Hexachloroethane	U	805	ug/kg	161	805
98-95-3	Nitrobenzene	U	805	ug/kg	161	805
78-59-1	Isophorone	U	805	ug/kg	161	805
88-75-5	2-Nitrophenol	U	805	ug/kg	161	805
105-67-9	2,4-Dimethylphenol	U	805	ug/kg	282	805
111-91-1	bis(2-Chloroethoxy)methane	U	805	ug/kg	161	805
120-83-2	2,4-Dichlorophenol	U	805	ug/kg	161	805
65-85-0	Benzoic acid	U	1610	ug/kg	402	1610
91-20-3	Naphthalene	U	80.5	ug/kg	24.1	80.5
106-47-8	4-Chloroaniline	U	805	ug/kg	161	805
87-68-3	Hexachlorobutadiene	U	805	ug/kg	161	805
91-57-6	2-Methylnaphthalene	U	80.5	ug/kg	16.1	80.5
77-47-4	Hexachlorocyclopentadiene	U	805	ug/kg	161	805
88-06-2	2,4,6-Trichlorophenol	U	805	ug/kg	161	805
95-95-4	2,4,5-Trichlorophenol	U	805	ug/kg	161	805
91-58-7	2-Chloronaphthalene	U	80.5	ug/kg	26.6	80.5
88-74-4	2-Nitroaniline	U	805	ug/kg	161	805
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	805	ug/kg	161	805

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
Client ID: RE36-10-7405	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 15:38	Inst: MSD3.1	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1315.d	Aliquot: 30.12 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	805	ug/kg	161	805
208-96-8	2,6-Dinitrotoluene	U	805	ug/kg	80.5	805
51-28-5	Acenaphthylene	U	80.5	ug/kg	24.1	80.5
132-64-9	2,4-Dinitrophenol	U	1610	ug/kg	306	1610
84-66-2	Dibenzofuran	U	805	ug/kg	161	805
86-73-7	Diethylphthalate	U	805	ug/kg	161	805
7005-72-3	Fluorene	U	80.5	ug/kg	24.1	80.5
534-52-1	4-Chlorophenylphenylether	U	805	ug/kg	161	805
100-01-6	2-Methyl-4,6-dinitrophenol	U	805	ug/kg	161	805
	4-Nitroaniline	U	805	ug/kg	241	805
122-39-4	<i>p</i> -Nitroaniline					
122-66-7	Diphenylamine	U	805	ug/kg	161	805
	Azobenzene	U	805	ug/kg	161	805
101-55-3	<i>1,2</i> -Diphenylhydrazine					
118-74-1	4-Bromophenylphenylether	U	805	ug/kg	161	805
85-01-8	Hexachlorobenzene	U	805	ug/kg	161	805
120-12-7	Phenanthrene	J	27.2	ug/kg	24.1	80.5
84-74-2	Anthracene	U	80.5	ug/kg	16.1	80.5
206-44-0	Di-n-butylphthalate	U	805	ug/kg	161	805
85-68-7	Fluoranthene	J	49.7	ug/kg	24.1	80.5
56-55-3	Butylbenzylphthalate	U	805	ug/kg	161	805
91-94-1	Benzo(a)anthracene	J	41.6	ug/kg	24.1	80.5
218-01-9	3,3'-Dichlorobenzidine	U	805	ug/kg	241	805
117-81-7	Chrysene	J	33.7	ug/kg	24.1	80.5
117-84-0	bis(2-Ethylhexyl)phthalate	U	805	ug/kg	161	805
205-99-2	Di-n-octylphthalate	U	805	ug/kg	161	805
207-08-9	Benzo(b)fluoranthene	J	77.2	ug/kg	24.1	80.5
50-32-8	Benzo(k)fluoranthene	U	80.5	ug/kg	24.1	80.5
193-39-5	Benzo(a)pyrene	J	34.8	ug/kg	24.1	80.5
53-70-3	Indeno(1,2,3-cd)pyrene	U	80.5	ug/kg	24.1	80.5
191-24-2	Dibenzo(a,h)anthracene	U	80.5	ug/kg	24.1	80.5
120-82-1	Benzo(ghi)perylene	U	80.5	ug/kg	24.1	80.5
	1,2,4-Trichlorobenzene	U	805	ug/kg	161	805

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	559	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	7.78	443	ug/kg	90	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	% Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 15:38	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1315.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	478	ug/kg	95	NJ
6971-40-0	17-Pentatriacontene	8.01	999	ug/kg	92	NJ
55255-85-1	Cyclopentane, 1,1'-(3-(2-cyclopentylethy	8.44	1450	ug/kg	87	NJ
	Unknown	8.66	775	ug/kg		J
112-95-8	Eicosane	8.93	1100	ug/kg	95	NJ
	Unknown	9.67	2080	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	720	ug/kg	91	NJ
	Unknown	11.46	855	ug/kg		J

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

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SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7406
Batch ID: 960459
Run Date: 03/13/2010 16:17
Prep Date: 03/03/2010 23:09
Data File: s3c1317.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	742	ug/kg	148	742
108-95-2	Phenol	U	742	ug/kg	148	742
95-57-8	2-Chlorophenol	U	742	ug/kg	148	742
106-46-7	1,4-Dichlorobenzene	U	742	ug/kg	148	742
621-64-7	N-Nitrosodipropylamine	U	742	ug/kg	148	742
59-50-7	4-Chloro-3-methylphenol	U	742	ug/kg	148	742
83-32-9	Acenaphthene	U	74.2	ug/kg	24.5	74.2
121-14-2	2,4-Dinitrotoluene	U	742	ug/kg	74.2	742
100-02-7	4-Nitrophenol	U	742	ug/kg	245	742
87-86-5	Pentachlorophenol	U	742	ug/kg	186	742
129-00-0	Pyrene	U	74.2	ug/kg	22.3	74.2
110-86-1	Pyridine	U	742	ug/kg	148	742
62-53-3	Aniline	U	742	ug/kg	223	742
111-44-4	bis(2-Chloroethyl) ether	U	742	ug/kg	148	742
541-73-1	1,3-Dichlorobenzene	U	742	ug/kg	148	742
100-51-6	Benzyl alcohol	U	742	ug/kg	223	742
95-50-1	1,2-Dichlorobenzene	U	742	ug/kg	148	742
108-60-1	bis(2-Chloroisopropyl)ether	U	742	ug/kg	148	742
95-48-7	o-Cresol	U	742	ug/kg	148	742
65794-96-9	m,p-Cresols	U	742	ug/kg	223	742
67-72-1	Hexachloroethane	U	742	ug/kg	148	742
98-95-3	Nitrobenzene	U	742	ug/kg	148	742
78-59-1	Isophorone	U	742	ug/kg	148	742
88-75-5	2-Nitrophenol	U	742	ug/kg	148	742
105-67-9	2,4-Dimethylphenol	U	742	ug/kg	260	742
111-91-1	bis(2-Chloroethoxy)methane	U	742	ug/kg	148	742
120-83-2	2,4-Dichlorophenol	U	742	ug/kg	148	742
65-85-0	Benzoic acid	U	1480	ug/kg	371	1480
91-20-3	Naphthalene	U	74.2	ug/kg	22.3	74.2
106-47-8	4-Chloroaniline	U	742	ug/kg	148	742
87-68-3	Hexachlorobutadiene	U	742	ug/kg	148	742
91-57-6	2-Methylnaphthalene	U	74.2	ug/kg	14.8	74.2
77-47-4	Hexachlorocyclopentadiene	U	742	ug/kg	148	742
88-06-2	2,4,6-Trichlorophenol	U	742	ug/kg	148	742
95-95-4	2,4,5-Trichlorophenol	U	742	ug/kg	148	742
91-58-7	2-Chloronaphthalene	U	74.2	ug/kg	24.5	74.2
88-74-4	2-Nitroaniline	U	742	ug/kg	148	742
99-09-2	<i>o</i> -Nitroaniline	U	742	ug/kg	148	742
	3-Nitroaniline					

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:17	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1317.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	742	ug/kg	148	742
606-20-2	2,6-Dinitrotoluene	U	742	ug/kg	74.2	742
208-96-8	Acenaphthylene	U	74.2	ug/kg	22.3	74.2
51-28-5	2,4-Dinitrophenol	U	1480	ug/kg	282	1480
132-64-9	Dibenzofuran	U	742	ug/kg	148	742
84-66-2	Diethylphthalate	U	742	ug/kg	148	742
86-73-7	Fluorene	U	74.2	ug/kg	22.3	74.2
7005-72-3	4-Chlorophenylphenylether	U	742	ug/kg	148	742
534-52-1	2-Methyl-4,6-dinitrophenol	U	742	ug/kg	148	742
100-01-6	4-Nitroaniline	U	742	ug/kg	223	742
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	742	ug/kg	148	742
122-66-7	Azobenzene	U	742	ug/kg	148	742
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	742	ug/kg	148	742
118-74-1	Hexachlorobenzene	U	742	ug/kg	148	742
85-01-8	Phenanthrene	U	74.2	ug/kg	22.3	74.2
120-12-7	Anthracene	U	74.2	ug/kg	14.8	74.2
84-74-2	Di-n-butylphthalate	U	742	ug/kg	148	742
206-44-0	Fluoranthene	U	74.2	ug/kg	22.3	74.2
85-68-7	Butylbenzylphthalate	U	742	ug/kg	148	742
56-55-3	Benzo(a)anthracene	U	74.2	ug/kg	22.3	74.2
91-94-1	3,3'-Dichlorobenzidine	U	742	ug/kg	223	742
218-01-9	Chrysene	U	74.2	ug/kg	22.3	74.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	742	ug/kg	148	742
117-84-0	Di-n-octylphthalate	U	742	ug/kg	148	742
205-99-2	Benzo(b)fluoranthene	U	74.2	ug/kg	22.3	74.2
207-08-9	Benzo(k)fluoranthene	U	74.2	ug/kg	22.3	74.2
50-32-8	Benzo(a)pyrene	U	74.2	ug/kg	22.3	74.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	74.2	ug/kg	22.3	74.2
53-70-3	Dibenzo(a,h)anthracene	U	74.2	ug/kg	22.3	74.2
191-24-2	Benzo(ghi)perylene	U	74.2	ug/kg	22.3	74.2
120-82-1	1,2,4-Trichlorobenzene	U	742	ug/kg	148	742

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	348	ug/kg		J
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	350	ug/kg	95	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	%Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:17	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1317.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.82	470	ug/kg		J
1599-67-3	1-Docosene	8.01	937	ug/kg	90	NJ
	Unknown	8.43	1470	ug/kg		J
	Unknown	8.68	781	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1690	ug/kg	96	NJ
	Unknown	11.32	509	ug/kg		J
	Unknown	11.45	756	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7425
Batch ID: 960459
Run Date: 03/13/2010 22:04
Prep Date: 03/03/2010 23:09
Data File: s3c1335.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	853	ug/kg	171	853
108-95-2	Phenol	U	853	ug/kg	171	853
95-57-8	2-Chlorophenol	U	853	ug/kg	171	853
106-46-7	1,4-Dichlorobenzene	U	853	ug/kg	171	853
621-64-7	N-Nitrosodipropylamine	U	853	ug/kg	171	853
59-50-7	4-Chloro-3-methylphenol	U	853	ug/kg	171	853
83-32-9	Accnaphthene	J	35.3	ug/kg	28.1	85.3
121-14-2	2,4-Dinitrotoluene	U	853	ug/kg	85.3	853
100-02-7	4-Nitrophenol	U	853	ug/kg	281	853
87-86-5	Pentachlorophenol	U	853	ug/kg	213	853
110-86-1	Pyridine	U	853	ug/kg	171	853
62-53-3	Aniline	U	853	ug/kg	256	853
111-44-4	bis(2-Chloroethyl) ether	U	853	ug/kg	171	853
541-73-1	1,3-Dichlorobenzene	U	853	ug/kg	171	853
100-51-6	Benzyl alcohol	U	853	ug/kg	256	853
95-50-1	1,2-Dichlorobenzene	U	853	ug/kg	171	853
108-60-1	bis(2-Chloroisopropyl)ether	U	853	ug/kg	171	853
95-48-7	o-Cresol	U	853	ug/kg	171	853
65794-96-9	m,p-Cresols	U	853	ug/kg	256	853
67-72-1	Hexachloroethane	U	853	ug/kg	171	853
98-95-3	Nitrobenzene	U	853	ug/kg	171	853
78-59-1	Isophorone	U	853	ug/kg	171	853
88-75-5	2-Nitrophenol	U	853	ug/kg	171	853
105-67-9	2,4-Dimethylphenol	U	853	ug/kg	298	853
111-91-1	bis(2-Chloroethoxy)methane	U	853	ug/kg	171	853
120-83-2	2,4-Dichlorophenol	U	853	ug/kg	171	853
65-85-0	Benzoic acid	U	1710	ug/kg	426	1710
91-20-3	Naphthalene	J	66.1	ug/kg	25.6	85.3
106-47-8	4-Chloroaniline	U	853	ug/kg	171	853
87-68-3	Hexachlorobutadiene	U	853	ug/kg	171	853
91-57-6	2-Methylnaphthalene	J	23.5	ug/kg	17.1	85.3
77-47-4	Hexachlorocyclopentadiene	U	853	ug/kg	171	853
88-06-2	2,4,6-Trichlorophenol	U	853	ug/kg	171	853
95-95-4	2,4,5-Trichlorophenol	U	853	ug/kg	171	853
91-58-7	2-Chloronaphthalene	U	85.3	ug/kg	28.1	85.3
88-74-4	2-Nitroaniline	U	853	ug/kg	171	853
99-09-2	<i>o</i> -Nitroaniline	U	853	ug/kg	171	853
	3-Nitroaniline					
	<i>m</i> -Nitroaniline					

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

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7425
Batch ID: 960459
Run Date: 03/13/2010 22:04
Prep Date: 03/03/2010 23:09
Data File: s3c1335.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	853	ug/kg	171	853
606-20-2	2,6-Dinitrotoluene	U	853	ug/kg	85.3	853
208-96-8	Acenaphthylene	U	85.3	ug/kg	25.6	85.3
51-28-5	2,4-Dinitrophenol	U	1710	ug/kg	324	1710
132-64-9	Dibenzofuran	U	853	ug/kg	171	853
84-66-2	Diethylphthalate	U	853	ug/kg	171	853
86-73-7	Fluorene	J	60.5	ug/kg	25.6	85.3
7005-72-3	4-Chlorophenylphenylether	U	853	ug/kg	171	853
534-52-1	2-Methyl-4,6-dinitrophenol	U	853	ug/kg	171	853
100-01-6	4-Nitroaniline	U	853	ug/kg	256	853
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	853	ug/kg	171	853
122-66-7	Azobenzene	U	853	ug/kg	171	853
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether	U	853	ug/kg	171	853
118-74-1	Hexachlorobenzene	U	853	ug/kg	171	853
85-01-8	Phenanthrene		1170	ug/kg	25.6	85.3
120-12-7	Anthracene		709	ug/kg	17.1	85.3
84-74-2	Di-n-butylphthalate	U	853	ug/kg	171	853
206-44-0	Fluoranthene		8250	ug/kg	25.6	85.3
85-68-7	Butylbenzylphthalate	U	853	ug/kg	171	853
56-55-3	Benzo(a)anthracene		6250	ug/kg	25.6	85.3
91-94-1	3,3'-Dichlorobenzidine	U	853	ug/kg	256	853
218-01-9	Chrysene		6760	ug/kg	25.6	85.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	853	ug/kg	171	853
117-84-0	Di-n-octylphthalate	U	853	ug/kg	171	853
207-08-9	Benzo(k)fluoranthene	U	85.3	ug/kg	25.6	85.3
50-32-8	Benzo(a)pyrene		6520	ug/kg	25.6	85.3
193-39-5	Indeno(1,2,3-cd)pyrene		2730	ug/kg	25.6	85.3
53-70-3	Dibenzo(a,h)anthracene	U	85.3	ug/kg	25.6	85.3
191-24-2	Benzo(ghi)perylene		2720	ug/kg	25.6	85.3
120-82-1	1,2,4-Trichlorobenzene	U	853	ug/kg	171	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2531-84-2	Phenanthrene, 2-methyl-	6.91	888	ug/kg	98	NJ
	Unknown	6.97	1440	ug/kg		J
2789-88-0	di-p-Tolylacetylene	7.22	839	ug/kg	93	NJ
	Unknown	7.26	814	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 22:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1335.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
2381-21-7	Pyrene, 1-methyl-	7.58	628	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	1150	ug/kg	96	NJ
	Unknown	7.68	974	ug/kg		J
	Unknown	7.71	1010	ug/kg		J
	Unknown	7.76	461	ug/kg		J
	Unknown	7.78	584	ug/kg		J
64401-21-4	Pyrene, 1,3-dimethyl-	7.88	818	ug/kg	83	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	851	ug/kg	96	NJ
195-19-7	Benzo[c]phenanthrene	8.02	1030	ug/kg	90	NJ
	Unknown	8.05	683	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	656	ug/kg	97	NJ
	Unknown	8.25	640	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	707	ug/kg	95	NJ
3351-28-8	Chrysene, 1-methyl-	8.43	522	ug/kg	97	NJ
	Unknown	8.51	775	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.54	818	ug/kg	89	NJ
198-55-0	Perylene	9.24	3620	ug/kg	99	NJ
	Unknown	9.74	2260	ug/kg		J
1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,	10.12	4380	ug/kg	97	NJ
213-46-7	1,2:7,8-Dibenzophenanthrene	10.81	2350	ug/kg	99	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 20
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
129-00-0	Pyrene		19100	ug/kg	256	853
205-99-2	Benzo(b)fluoranthene		17800	ug/kg	256	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2381-21-7	Pyrene, 1-methyl-	7.64	4500	ug/kg	97	NJ
3442-78-2	Pyrene, 2-methyl-	7.71	3700	ug/kg	97	NJ
	Unknown	7.78	3540	ug/kg		J
195-19-7	Benzo(c)phenanthrene	8.02	4090	ug/kg	86	NJ
	Unknown	8.04	3680	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.53	4300	ug/kg	89	NJ
198-55-0	Perylene	9.22	8020	ug/kg	99	NJ
	Unknown	10.18	7560	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.11 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 12.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7426
Batch ID: 960459
Run Date: 03/13/2010 17:15
Prep Date: 03/03/2010 23:09
Data File: s3c1320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1520	ug/kg	303	1520
108-95-2	Phenol	U	1520	ug/kg	303	1520
95-57-8	2-Chlorophenol	U	1520	ug/kg	303	1520
106-46-7	1,4-Dichlorobenzene	U	1520	ug/kg	303	1520
621-64-7	N-Nitrosodipropylamine	U	1520	ug/kg	303	1520
59-50-7	4-Chloro-3-methylphenol	U	1520	ug/kg	303	1520
83-32-9	Accnaphthene	U	152	ug/kg	50.1	152
121-14-2	2,4-Dinitrotoluene	U	1520	ug/kg	152	1520
100-02-7	4-Nitrophenol	U	1520	ug/kg	501	1520
87-86-5	Pentachlorophenol	U	1520	ug/kg	379	1520
129-00-0	Pyrene		2710	ug/kg	45.5	152
110-86-1	Pyridine	U	1520	ug/kg	303	1520
62-53-3	Aniline	U	1520	ug/kg	455	1520
111-44-4	bis(2-Chloroethyl) ether	U	1520	ug/kg	303	1520
541-73-1	1,3-Dichlorobenzene	U	1520	ug/kg	303	1520
100-51-6	Benzyl alcohol	U	1520	ug/kg	455	1520
95-50-1	1,2-Dichlorobenzene	U	1520	ug/kg	303	1520
108-60-1	bis(2-Chloroisopropyl)ether	U	1520	ug/kg	303	1520
95-48-7	o-Cresol	U	1520	ug/kg	303	1520
65794-96-9	m,p-Cresols	U	1520	ug/kg	455	1520
67-72-1	Hexachloroethane	U	1520	ug/kg	303	1520
98-95-3	Nitrobenzene	U	1520	ug/kg	303	1520
78-59-1	Isophorone	U	1520	ug/kg	303	1520
88-75-5	2-Nitrophenol	U	1520	ug/kg	303	1520
105-67-9	2,4-Dimethylphenol	U	1520	ug/kg	531	1520
111-91-1	bis(2-Chloroethoxy)methane	U	1520	ug/kg	303	1520
120-83-2	2,4-Dichlorophenol	U	1520	ug/kg	303	1520
65-85-0	Benzoic acid	U	3030	ug/kg	759	3030
91-20-3	Naphthalene	U	152	ug/kg	45.5	152
106-47-8	4-Chloroaniline	U	1520	ug/kg	303	1520
87-68-3	Hexachlorobutadiene	U	1520	ug/kg	303	1520
91-57-6	2-Methylnaphthalene	U	152	ug/kg	30.3	152
77-47-4	Hexachlorocyclopentadiene	U	1520	ug/kg	303	1520
88-06-2	2,4,6-Trichlorophenol	U	1520	ug/kg	303	1520
95-95-4	2,4,5-Trichlorophenol	U	1520	ug/kg	303	1520
91-58-7	2-Chloronaphthalene	U	152	ug/kg	50.1	152
88-74-4	2-Nitroaniline	U	1520	ug/kg	303	1520
99-09-2	<i>o</i> -Nitroaniline 3-Nitroaniline	U	1520	ug/kg	303	1520

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7426	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 17:15	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.11 g	Final Volume: 1 mL
Data File: s3c1320.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	1520	ug/kg	303	1520
606-20-2	2,6-Dinitrotoluene	U	1520	ug/kg	152	1520
208-96-8	Acenaphthylene	U	152	ug/kg	45.5	152
51-28-5	2,4-Dinitrophenol	U	3030	ug/kg	577	3030
132-64-9	Dibenzofuran	U	1520	ug/kg	303	1520
84-66-2	Diethylphthalate	U	1520	ug/kg	303	1520
86-73-7	Fluorene	U	152	ug/kg	45.5	152
7005-72-3	4-Chlorophenylphenylether	U	1520	ug/kg	303	1520
534-52-1	2-Methyl-4,6-dinitrophenol	U	1520	ug/kg	303	1520
100-01-6	4-Nitroaniline	U	1520	ug/kg	455	1520
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1520	ug/kg	303	1520
122-66-7	Azobenzene	U	1520	ug/kg	303	1520
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1520	ug/kg	303	1520
118-74-1	Hexachlorobenzene	U	1520	ug/kg	303	1520
85-01-8	Phenanthrene		278	ug/kg	45.5	152
120-12-7	Anthracene		171	ug/kg	30.3	152
84-74-2	Di-n-butylphthalate	U	1520	ug/kg	303	1520
206-44-0	Fluoranthene		2020	ug/kg	45.5	152
85-68-7	Butylbenzylphthalate	U	1520	ug/kg	303	1520
56-55-3	Benzo(a)anthracene		1610	ug/kg	45.5	152
91-94-1	3,3'-Dichlorobenzidine	U	1520	ug/kg	455	1520
218-01-9	Chrysene		1480	ug/kg	45.5	152
117-81-7	bis(2-Ethylhexyl)phthalate	U	1520	ug/kg	303	1520
117-84-0	Di-n-octylphthalate	U	1520	ug/kg	303	1520
205-99-2	Benzo(b)fluoranthene		2530	ug/kg	45.5	152
207-08-9	Benzo(k)fluoranthene	U	152	ug/kg	45.5	152
50-32-8	Benzo(a)pyrene		1510	ug/kg	45.5	152
193-39-5	Indeno(1,2,3-cd)pyrene		628	ug/kg	45.5	152
53-70-3	Dibenzo(a,h)anthracene	U	152	ug/kg	45.5	152
191-24-2	Benzo(ghi)perylene		623	ug/kg	45.5	152
120-82-1	1,2,4-Trichlorobenzene	U	1520	ug/kg	303	1520

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R- α -Pinene	3.05	2010	ug/kg	98	NJ
79-92-5	Camphene	3.15	988	ug/kg	97	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.11 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 12.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7426
Batch ID: 960459
Run Date: 03/13/2010 17:15
Prep Date: 03/03/2010 23:09
Data File: s3c1320.d

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
123-35-3	.beta.-Myrcene	3.29	2020	ug/kg	91	NJ
4230-32-4	Bicyclo[2.2.1]heptane-2,5-dione, 1,7,7-t	4.66	792	ug/kg	91	NJ
	Unknown	5.24	873	ug/kg		J
	Unknown	6.89	1020	ug/kg		J
	Unknown	6.98	1160	ug/kg		J
	Unknown	8.01	981	ug/kg		J
3351-32-4	Chrysene, 2-methyl-	8.43	1210	ug/kg	94	NJ
	Unknown	10.67	1850	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	3090	ug/kg	93	NJ
	Unknown	11.27	1360	ug/kg		J
	Unknown	11.4	6910	ug/kg		J
	Unknown	11.49	1660	ug/kg		J
469-38-5	9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	11.69	2690	ug/kg	83	NJ
	Unknown	11.8	2790	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197012

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.18 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 29.7
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7429
Batch ID: 960459
Run Date: 03/13/2010 18:13
Prep Date: 03/03/2010 23:09
Data File: s3c1323.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	943	ug/kg	189	943
108-95-2	Phenol	U	943	ug/kg	189	943
95-57-8	2-Chlorophenol	U	943	ug/kg	189	943
106-46-7	1,4-Dichlorobenzene	U	943	ug/kg	189	943
621-64-7	N-Nitrosodipropylamine	U	943	ug/kg	189	943
59-50-7	4-Chloro-3-methylphenol	U	943	ug/kg	189	943
83-32-9	Acenaphthene	U	94.3	ug/kg	31.1	94.3
121-14-2	2,4-Dinitrotoluene	U	943	ug/kg	94.3	943
100-02-7	4-Nitrophenol	U	943	ug/kg	311	943
87-86-5	Pentachlorophenol	U	943	ug/kg	236	943
129-00-0	Pyrene	J	77.5	ug/kg	28.3	94.3
110-86-1	Pyridine	U	943	ug/kg	189	943
62-53-3	Aniline	U	943	ug/kg	283	943
111-44-4	bis(2-Chloroethyl) ether	U	943	ug/kg	189	943
541-73-1	1,3-Dichlorobenzene	U	943	ug/kg	189	943
100-51-6	Benzyl alcohol	U	943	ug/kg	283	943
95-50-1	1,2-Dichlorobenzene	U	943	ug/kg	189	943
108-60-1	bis(2-Chloroisopropyl)ether	U	943	ug/kg	189	943
95-48-7	o-Cresol	U	943	ug/kg	189	943
65794-96-9	m,p-Cresols	U	943	ug/kg	283	943
67-72-1	Hexachloroethane	U	943	ug/kg	189	943
98-95-3	Nitrobenzene	U	943	ug/kg	189	943
78-59-1	Isophorone	U	943	ug/kg	189	943
88-75-5	2-Nitrophenol	U	943	ug/kg	189	943
105-67-9	2,4-Dimethylphenol	U	943	ug/kg	330	943
111-91-1	bis(2-Chloroethoxy)methane	U	943	ug/kg	189	943
120-83-2	2,4-Dichlorophenol	U	943	ug/kg	189	943
65-85-0	Benzoic acid	U	1890	ug/kg	471	1890
91-20-3	Naphthalene	U	94.3	ug/kg	28.3	94.3
106-47-8	4-Chloroaniline	U	943	ug/kg	189	943
87-68-3	Hexachlorobutadiene	U	943	ug/kg	189	943
91-57-6	2-Methylnaphthalene	U	94.3	ug/kg	18.9	94.3
77-47-4	Hexachlorocyclopentadiene	U	943	ug/kg	189	943
88-06-2	2,4,6-Trichlorophenol	U	943	ug/kg	189	943
95-95-4	2,4,5-Trichlorophenol	U	943	ug/kg	189	943
91-58-7	2-Chloronaphthalene	U	94.3	ug/kg	31.1	94.3
88-74-4	2-Nitroaniline	U	943	ug/kg	189	943
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	943	ug/kg	189	943

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:13	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.18 g	Final Volume: 1 mL
Data File: s3c1323.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	943	ug/kg	189	943
606-20-2	2,6-Dinitrotoluene	U	943	ug/kg	94.3	943
208-96-8	Acenaphthylene	U	94.3	ug/kg	28.3	94.3
51-28-5	2,4-Dinitrophenol	U	1890	ug/kg	358	1890
132-64-9	Dibenzofuran	U	943	ug/kg	189	943
84-66-2	Diethylphthalate	U	943	ug/kg	189	943
86-73-7	Fluorene	U	94.3	ug/kg	28.3	94.3
7005-72-3	4-Chlorophenylphenylether	U	943	ug/kg	189	943
534-52-1	2-Methyl-4,6-dinitrophenol	U	943	ug/kg	189	943
100-01-6	4-Nitroaniline	U	943	ug/kg	283	943
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	943	ug/kg	189	943
122-66-7	Azobenzene	U	943	ug/kg	189	943
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	943	ug/kg	189	943
118-74-1	Hexachlorobenzene	U	943	ug/kg	189	943
85-01-8	Phenanthrene	J	52.4	ug/kg	28.3	94.3
120-12-7	Anthracene	U	94.3	ug/kg	18.9	94.3
84-74-2	Di-n-butylphthalate	U	943	ug/kg	189	943
206-44-0	Fluoranthene	J	74.9	ug/kg	28.3	94.3
85-68-7	Butylbenzylphthalate	U	943	ug/kg	189	943
56-55-3	Benzo(a)anthracene	J	48.8	ug/kg	28.3	94.3
91-94-1	3,3'-Dichlorobenzidine	U	943	ug/kg	283	943
218-01-9	Chrysene	J	39.4	ug/kg	28.3	94.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	943	ug/kg	189	943
117-84-0	Di-n-octylphthalate	U	943	ug/kg	189	943
205-99-2	Benzo(b)fluoranthene	J	74.0	ug/kg	28.3	94.3
207-08-9	Benzo(k)fluoranthene	U	94.3	ug/kg	28.3	94.3
50-32-8	Benzo(a)pyrene	J	37.1	ug/kg	28.3	94.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	94.3	ug/kg	28.3	94.3
53-70-3	Dibenzo(a,h)anthracene	U	94.3	ug/kg	28.3	94.3
191-24-2	Benzo(ghi)perylene	U	94.3	ug/kg	28.3	94.3
120-82-1	1,2,4-Trichlorobenzene	U	943	ug/kg	189	943

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	7.61	929	ug/kg	99	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	885	ug/kg	98	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:13	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.18 g	Final Volume: 1 mL
Data File: s3c1323.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
77899-03-7	1-Heneicosyl formate	8.01	1420	ug/kg	90	NJ
110936-78-2	7-Oxodehydroabietic acid, methyl ester	8.3	808	ug/kg	92	NJ
1599-67-3	1-Docosene	8.43	2330	ug/kg	97	NJ
112-95-8	Eicosane	8.93	839	ug/kg	96	NJ
	Unknown	9.4	845	ug/kg		J
	Unknown	9.67	1060	ug/kg		J
57-87-4	Ergosterol	10.45	2060	ug/kg	96	NJ
83-47-6	.gamma.-Sitosterol	11.08	5500	ug/kg	95	NJ
	Unknown	11.27	1810	ug/kg		J
	Unknown	11.39	1770	ug/kg		J
	Unknown	11.5	4370	ug/kg		J
	Unknown	11.81	2100	ug/kg		J
1058-61-3	Stigmast-4-en-3-one	11.98	1890	ug/kg	91	NJ
	Unknown	12.49	811	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7431
Batch ID: 960459
Run Date: 03/13/2010 21:07
Prep Date: 03/03/2010 23:09
Data File: s3c1332.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1730	ug/kg	346	1730
108-95-2	Phenol	U	1730	ug/kg	346	1730
95-57-8	2-Chlorophenol	U	1730	ug/kg	346	1730
106-46-7	1,4-Dichlorobenzene	U	1730	ug/kg	346	1730
621-64-7	N-Nitrosodipropylamine	U	1730	ug/kg	346	1730
59-50-7	4-Chloro-3-methylphenol	U	1730	ug/kg	346	1730
83-32-9	Acenaphthene		3430	ug/kg	57.0	173
121-14-2	2,4-Dinitrotoluene	U	1730	ug/kg	173	1730
100-02-7	4-Nitrophenol	U	1730	ug/kg	570	1730
87-86-5	Pentachlorophenol	U	1730	ug/kg	432	1730
110-86-1	Pyridine	U	1730	ug/kg	346	1730
62-53-3	Aniline	U	1730	ug/kg	518	1730
111-44-4	bis(2-Chloroethyl) ether	U	1730	ug/kg	346	1730
541-73-1	1,3-Dichlorobenzene	U	1730	ug/kg	346	1730
100-51-6	Benzyl alcohol	U	1730	ug/kg	518	1730
95-50-1	1,2-Dichlorobenzene	U	1730	ug/kg	346	1730
108-60-1	bis(2-Chloroisopropyl)ether	U	1730	ug/kg	346	1730
95-48-7	o-Cresol	U	1730	ug/kg	346	1730
65794-96-9	m,p-Cresols	U	1730	ug/kg	518	1730
67-72-1	Hexachloroethane	U	1730	ug/kg	346	1730
98-95-3	Nitrobenzene	U	1730	ug/kg	346	1730
78-59-1	Isophorone	U	1730	ug/kg	346	1730
88-75-5	2-Nitrophenol	U	1730	ug/kg	346	1730
105-67-9	2,4-Dimethylphenol	U	1730	ug/kg	605	1730
111-91-1	bis(2-Chloroethoxy)methane	U	1730	ug/kg	346	1730
120-83-2	2,4-Dichlorophenol	U	1730	ug/kg	346	1730
65-85-0	Benzoic acid	U	3460	ug/kg	864	3460
91-20-3	Naphthalene		2670	ug/kg	51.8	173
106-47-8	4-Chloroaniline	U	1730	ug/kg	346	1730
87-68-3	Hexachlorobutadiene	U	1730	ug/kg	346	1730
91-57-6	2-Methylnaphthalene		1300	ug/kg	34.6	173
77-47-4	Hexachlorocyclopentadiene	U	1730	ug/kg	346	1730
88-06-2	2,4,6-Trichlorophenol	U	1730	ug/kg	346	1730
95-95-4	2,4,5-Trichlorophenol	U	1730	ug/kg	346	1730
91-58-7	2-Chloronaphthalene	U	173	ug/kg	57.0	173
88-74-4	2-Nitroaniline	U	1730	ug/kg	346	1730
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1730	ug/kg	346	1730
	<i>m</i> -Nitroaniline					

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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	1730	ug/kg	346	1730
606-20-2	2,6-Dinitrotoluene	U	1730	ug/kg	173	1730
208-96-8	Acenaphthylene	J	63.8	ug/kg	51.8	173
51-28-5	2,4-Dinitrophenol	U	3460	ug/kg	657	3460
132-64-9	Dibenzofuran		2940	ug/kg	346	1730
84-66-2	Diethylphthalate	U	1730	ug/kg	346	1730
86-73-7	Fluorene		4000	ug/kg	51.8	173
7005-72-3	4-Chlorophenylphenylether	U	1730	ug/kg	346	1730
534-52-1	2-Methyl-4,6-dinitrophenol	U	1730	ug/kg	346	1730
100-01-6	4-Nitroaniline	U	1730	ug/kg	518	1730
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1730	ug/kg	346	1730
122-66-7	Azobenzene	U	1730	ug/kg	346	1730
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether	U	1730	ug/kg	346	1730
118-74-1	Hexachlorobenzene	U	1730	ug/kg	346	1730
120-12-7	Anthracene		5030	ug/kg	34.6	173
84-74-2	Di-n-butylphthalate	J	377	ug/kg	346	1730
85-68-7	Butylbenzylphthalate	U	1730	ug/kg	346	1730
56-55-3	Benzo(a)anthracene		11400	ug/kg	51.8	173
91-94-1	3,3'-Dichlorobenzidine	U	1730	ug/kg	518	1730
218-01-9	Chrysene		12300	ug/kg	51.8	173
117-81-7	bis(2-Ethylhexyl)phthalate	J	436	ug/kg	346	1730
117-84-0	Di-n-octylphthalate	U	1730	ug/kg	346	1730
205-99-2	Benzo(b)fluoranthene		19600	ug/kg	51.8	173
207-08-9	Benzo(k)fluoranthene	U	173	ug/kg	51.8	173
50-32-8	Benzo(a)pyrene		10100	ug/kg	51.8	173
193-39-5	Indeno(1,2,3-cd)pyrene		4650	ug/kg	51.8	173
53-70-3	Dibenzo(a,h)anthracene	U	173	ug/kg	51.8	173
191-24-2	Benzo(ghi)perylene		4880	ug/kg	51.8	173
120-82-1	1,2,4-Trichlorobenzene	U	1730	ug/kg	346	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
244-99-5	5H-Indeno[1,2-b]pyridine	6.73	807	ug/kg	96	NJ
	Unknown	6.98	1330	ug/kg		J
84-65-1	9,10-Anthracenedione	7.1	1040	ug/kg	98	NJ
2381-21-7	Pyrene, 1-methyl-	7.58	1450	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	2610	ug/kg	96	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7431
Batch ID: 960459
Run Date: 03/13/2010 21:07
Prep Date: 03/03/2010 23:09
Data File: s3c1332.d

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
	Unknown	7.68	1350	ug/kg		J
3442-78-2	Pyrene, 2-methyl-	7.71	2320	ug/kg	95	NJ
	Unknown	7.78	1170	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	1700	ug/kg	97	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	1250	ug/kg	97	NJ
239-01-0	11H-Benzo[a]carbazole	8.32	1450	ug/kg	80	NJ
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	1380	ug/kg	86	NJ
1482-93-5	Cyclohexane, hexaethylidene-	8.54	1560	ug/kg	90	NJ
	Unknown	8.85	6360	ug/kg		J
629-92-5	Nonadecane	8.93	3670	ug/kg	95	NJ
198-55-0	Perylene	9.24	5200	ug/kg	99	NJ
112-95-8	Eicosane	9.61	3800	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431DL	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 40
Run Date: 03/13/2010 20:47	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1331.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDI/LOD	PQL/LOQ
129-00-0	Pyrene		75600	ug/kg	518	1730
85-01-8	Phenanthrene		85700	ug/kg	518	1730
206-44-0	Fluoranthene		79800	ug/kg	518	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
238-84-6	11H-Benzo[a]fluorene	7.64	6950	ug/kg	97	NJ
	Unknown	8.85	14000	ug/kg		J
198-55-0	Perylene	9.23	14100	ug/kg	99	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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	768	ug/kg	154	768
108-95-2	Phenol	U	768	ug/kg	154	768
95-57-8	2-Chlorophenol	U	768	ug/kg	154	768
106-46-7	1,4-Dichlorobenzene	U	768	ug/kg	154	768
621-64-7	N-Nitrosodipropylamine	U	768	ug/kg	154	768
59-50-7	4-Chloro-3-methylphenol	U	768	ug/kg	154	768
83-32-9	Acenaphthene		563	ug/kg	25.3	76.8
121-14-2	2,4-Dinitrotoluene	U	768	ug/kg	76.8	768
100-02-7	4-Nitrophenol	U	768	ug/kg	253	768
87-86-5	Pentachlorophenol	U	768	ug/kg	192	768
129-00-0	Pyrene		5340	ug/kg	23.0	76.8
110-86-1	Pyridine	U	768	ug/kg	154	768
62-53-3	Aniline	U	768	ug/kg	230	768
111-44-4	bis(2-Chloroethyl) ether	U	768	ug/kg	154	768
541-73-1	1,3-Dichlorobenzene	U	768	ug/kg	154	768
100-51-6	Benzyl alcohol	U	768	ug/kg	230	768
95-50-1	1,2-Dichlorobenzene	U	768	ug/kg	154	768
108-60-1	bis(2-Chloroisopropyl)ether	U	768	ug/kg	154	768
95-48-7	o-Cresol	U	768	ug/kg	154	768
65794-96-9	m,p-Cresols	U	768	ug/kg	230	768
67-72-1	Hexachloroethane	U	768	ug/kg	154	768
98-95-3	Nitrobenzene	U	768	ug/kg	154	768
78-59-1	Isophorone	U	768	ug/kg	154	768
88-75-5	2-Nitrophenol	U	768	ug/kg	154	768
105-67-9	2,4-Dimethylphenol	U	768	ug/kg	269	768
111-91-1	bis(2-Chloroethoxy)methane	U	768	ug/kg	154	768
120-83-2	2,4-Dichlorophenol	U	768	ug/kg	154	768
65-85-0	Benzoic acid	U	1540	ug/kg	384	1540
91-20-3	Naphthalene		277	ug/kg	23.0	76.8
106-47-8	4-Chloroaniline	U	768	ug/kg	154	768
87-68-3	Hexachlorobutadiene	U	768	ug/kg	154	768
91-57-6	2-Methylnaphthalene		153	ug/kg	15.4	76.8
77-47-4	Hexachlorocyclopentadiene	U	768	ug/kg	154	768
88-06-2	2,4,6-Trichlorophenol	U	768	ug/kg	154	768
95-95-4	2,4,5-Trichlorophenol	U	768	ug/kg	154	768
91-58-7	2-Chloronaphthalene	U	76.8	ug/kg	25.3	76.8
88-74-4	2-Nitroaniline	U	768	ug/kg	154	768
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	768	ug/kg	154	768

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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	768	ug/kg	154	768
606-20-2	2,6-Dinitrotoluene	U	768	ug/kg	76.8	768
208-96-8	Acenaphthylene	U	76.8	ug/kg	23.0	76.8
51-28-5	2,4-Dinitrophenol	U	1540	ug/kg	292	1540
132-64-9	Dibenzofuran	J	404	ug/kg	154	768
84-66-2	Diethylphthalate	U	768	ug/kg	154	768
86-73-7	Fluorene		627	ug/kg	23.0	76.8
7005-72-3	4-Chlorophenylphenylether	U	768	ug/kg	154	768
534-52-1	2-Methyl-4,6-dinitrophenol	U	768	ug/kg	154	768
100-01-6	4-Nitroaniline	U	768	ug/kg	230	768
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	768	ug/kg	154	768
122-66-7	Azobenzene	U	768	ug/kg	154	768
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	768	ug/kg	154	768
118-74-1	Hexachlorobenzene	U	768	ug/kg	154	768
85-01-8	Phenanthrene		5580	ug/kg	23.0	76.8
120-12-7	Anthracene		958	ug/kg	15.4	76.8
84-74-2	Di-n-butylphthalate	J	193	ug/kg	154	768
206-44-0	Fluoranthene		5880	ug/kg	23.0	76.8
85-68-7	Butylbenzylphthalate	U	768	ug/kg	154	768
56-55-3	Benzo(a)anthracene		2550	ug/kg	23.0	76.8
91-94-1	3,3'-Dichlorobenzidine	U	768	ug/kg	230	768
218-01-9	Chrysene		2350	ug/kg	23.0	76.8
117-81-7	bis(2-Ethylhexyl)phthalate	J	178	ug/kg	154	768
117-84-0	Di-n-octylphthalate	U	768	ug/kg	154	768
205-99-2	Benzo(b)fluoranthene		4120	ug/kg	23.0	76.8
207-08-9	Benzo(k)fluoranthene	U	76.8	ug/kg	23.0	76.8
50-32-8	Benzo(a)pyrene		2080	ug/kg	23.0	76.8
193-39-5	Indeno(1,2,3-cd)pyrene		810	ug/kg	23.0	76.8
53-70-3	Dibenzo(a,h)anthracene	U	76.8	ug/kg	23.0	76.8
191-24-2	Benzo(ghi)perylene		802	ug/kg	23.0	76.8
120-82-1	1,2,4-Trichlorobenzene	U	768	ug/kg	154	768

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	6.97	443	ug/kg		J
238-84-6	11H-Benzo[a]fluorene	7.65	508	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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
3442-78-2	Pyrene, 2-methyl-	7.71	361	ug/kg	95	NJ
2381-21-7	Pyrene, 1-methyl-	7.78	316	ug/kg	93	NJ
243-46-9	Benzo[b]naphtho[2,3-d]thiophene	8.01	439	ug/kg	93	NJ
3351-32-4	Chrysene, 2-methyl-	8.43	496	ug/kg	97	NJ
	Unknown	8.85	3330	ug/kg		J
198-55-0	Perylene	9.23	1720	ug/kg	99	NJ
38651-65-9	Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl	9.67	1080	ug/kg	89	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.2 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 28.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7433
Batch ID: 960459
Run Date: 03/13/2010 18:32
Prep Date: 03/03/2010 23:09
Data File: s3c1324.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	928	ug/kg	186	928
108-95-2	Phenol	U	928	ug/kg	186	928
95-57-8	2-Chlorophenol	U	928	ug/kg	186	928
106-46-7	1,4-Dichlorobenzene	U	928	ug/kg	186	928
621-64-7	N-Nitrosodipropylamine	U	928	ug/kg	186	928
59-50-7	4-Chloro-3-methylphenol	U	928	ug/kg	186	928
83-32-9	Acenaphthene	J	61.3	ug/kg	30.6	92.8
121-14-2	2,4-Dinitrotoluene	U	928	ug/kg	92.8	928
100-02-7	4-Nitrophenol	U	928	ug/kg	306	928
87-86-5	Pentachlorophenol	U	928	ug/kg	232	928
129-00-0	Pyrene		737	ug/kg	27.8	92.8
110-86-1	Pyridine	U	928	ug/kg	186	928
62-53-3	Aniline	U	928	ug/kg	278	928
111-44-4	bis(2-Chloroethyl) ether	U	928	ug/kg	186	928
541-73-1	1,3-Dichlorobenzene	U	928	ug/kg	186	928
100-51-6	Benzyl alcohol	U	928	ug/kg	278	928
95-50-1	1,2-Dichlorobenzene	U	928	ug/kg	186	928
108-60-1	bis(2-Chloroisopropyl)ether	U	928	ug/kg	186	928
95-48-7	o-Cresol	U	928	ug/kg	186	928
65794-96-9	m,p-Cresols	U	928	ug/kg	278	928
67-72-1	Hexachloroethane	U	928	ug/kg	186	928
98-95-3	Nitrobenzene	U	928	ug/kg	186	928
78-59-1	Isophorone	U	928	ug/kg	186	928
88-75-5	2-Nitrophenol	U	928	ug/kg	186	928
105-67-9	2,4-Dimethylphenol	U	928	ug/kg	325	928
111-91-1	bis(2-Chloroethoxy)methane	U	928	ug/kg	186	928
120-83-2	2,4-Dichlorophenol	U	928	ug/kg	186	928
65-85-0	Benzoic acid	J	1560	ug/kg	464	1860
91-20-3	Naphthalene	U	92.8	ug/kg	27.8	92.8
106-47-8	4-Chloroaniline	U	928	ug/kg	186	928
87-68-3	Hexachlorobutadiene	U	928	ug/kg	186	928
91-57-6	2-Methylnaphthalene	U	92.8	ug/kg	18.6	92.8
77-47-4	Hexachlorocyclopentadiene	U	928	ug/kg	186	928
88-06-2	2,4,6-Trichlorophenol	U	928	ug/kg	186	928
95-95-4	2,4,5-Trichlorophenol	U	928	ug/kg	186	928
91-58-7	2-Chloronaphthalene	U	92.8	ug/kg	30.6	92.8
88-74-4	2-Nitroaniline	U	928	ug/kg	186	928
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	928	ug/kg	186	928

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:32	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.2 g	Final Volume: 1 mL
Data File: s3c1324.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQI/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	928	ug/kg	186	928
606-20-2	2,6-Dinitrotoluene	U	928	ug/kg	92.8	928
208-96-8	Acenaphthylene	U	92.8	ug/kg	27.8	92.8
51-28-5	2,4-Dinitrophenol	U	1860	ug/kg	353	1860
132-64-9	Dibenzofuran	U	928	ug/kg	186	928
84-66-2	Diethylphthalate	U	928	ug/kg	186	928
86-73-7	Fluorene	J	50.7	ug/kg	27.8	92.8
7005-72-3	4-Chlorophenylphenylether	U	928	ug/kg	186	928
534-52-1	2-Methyl-4,6-dinitrophenol	U	928	ug/kg	186	928
100-01-6	4-Nitroaniline	U	928	ug/kg	278	928
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	928	ug/kg	186	928
122-66-7	Azobenzene	U	928	ug/kg	186	928
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	928	ug/kg	186	928
118-74-1	Hexachlorobenzene	U	928	ug/kg	186	928
85-01-8	Phenanthrene		522	ug/kg	27.8	92.8
120-12-7	Anthracene	J	88.9	ug/kg	18.6	92.8
84-74-2	Di-n-butylphthalate	J	403	ug/kg	186	928
206-44-0	Fluoranthene		617	ug/kg	27.8	92.8
85-68-7	Butylbenzylphthalate	U	928	ug/kg	186	928
56-55-3	Benzo(a)anthracene		297	ug/kg	27.8	92.8
91-94-1	3,3'-Dichlorobenzidine	U	928	ug/kg	278	928
218-01-9	Chrysene		290	ug/kg	27.8	92.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	928	ug/kg	186	928
117-84-0	Di-n-octylphthalate	U	928	ug/kg	186	928
205-99-2	Benzo(b)fluoranthene		517	ug/kg	27.8	92.8
207-08-9	Benzo(k)fluoranthene	U	92.8	ug/kg	27.8	92.8
50-32-8	Benzo(a)pyrene		263	ug/kg	27.8	92.8
193-39-5	Indeno(1,2,3-cd)pyrene		130	ug/kg	27.8	92.8
53-70-3	Dibenzo(a,h)anthracene	U	92.8	ug/kg	27.8	92.8
191-24-2	Benzo(ghi)perylene		134	ug/kg	27.8	92.8
120-82-1	1,2,4-Trichlorobenzene	U	928	ug/kg	186	928

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.77	5940	ug/kg		J
559-74-0	Friedelan-3-one	7.13	5580	ug/kg	87	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:32	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.2 g	Final Volume: 1 mL
Data File: s3c1324.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	7.17	2080	ug/kg		J
	Unknown	7.19	2580	ug/kg		J
	Unknown	7.41	444	ug/kg		J
25269-17-4	Thunbergol	7.62	813	ug/kg	91	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	1100	ug/kg	94	NJ
661-19-8	1-Docosanol	8.01	1810	ug/kg	94	NJ
	Unknown	8.28	607	ug/kg		J
661-19-8	1-Docosanol	8.43	3040	ug/kg	99	NJ
112-95-8	Eicosane	8.65	544	ug/kg	93	J
75581-03-2	2,6,10,14,18-Pentamethyl-2,6,10,14,18-ei	8.72	1180	ug/kg	90	J
	Unknown	8.78	1350	ug/kg		J
	Unknown	8.93	2790	ug/kg		J
	Unknown	9	2560	ug/kg		J
	Unknown	9.42	1540	ug/kg		J
	Unknown	9.6	1920	ug/kg		J
	Unknown	9.67	2510	ug/kg		J
7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	10.04	992	ug/kg	91	NJ
	Unknown	10.45	1130	ug/kg		J
	Unknown	10.71	1320	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	2510	ug/kg	96	NJ
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	11.5	1310	ug/kg	83	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	985	ug/kg	84	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7434
Batch ID: 960459
Run Date: 03/15/2010 19:04
Prep Date: 03/03/2010 23:09
Data File: s3c1517.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	859	ug/kg	172	859
108-95-2	Phenol	U	859	ug/kg	172	859
95-57-8	2-Chlorophenol	U	859	ug/kg	172	859
106-46-7	1,4-Dichlorobenzene	U	859	ug/kg	172	859
621-64-7	N-Nitrosodipropylamine	U	859	ug/kg	172	859
59-50-7	4-Chloro-3-methylphenol	U	859	ug/kg	172	859
83-32-9	Acenaphthene	U	85.9	ug/kg	28.4	85.9
121-14-2	2,4-Dinitrotoluene	U	859	ug/kg	85.9	859
100-02-7	4-Nitrophenol	U	859	ug/kg	284	859
87-86-5	Pentachlorophenol	U	859	ug/kg	215	859
129-00-0	Pyrene		145	ug/kg	25.8	85.9
110-86-1	Pyridine	U	859	ug/kg	172	859
62-53-3	Aniline	U	859	ug/kg	258	859
111-44-4	bis(2-Chloroethyl) ether	U	859	ug/kg	172	859
541-73-1	1,3-Dichlorobenzene	U	859	ug/kg	172	859
100-51-6	Benzyl alcohol	U	859	ug/kg	258	859
95-50-1	1,2-Dichlorobenzene	U	859	ug/kg	172	859
108-60-1	bis(2-Chloroisopropyl)ether	U	859	ug/kg	172	859
95-48-7	o-Cresol	U	859	ug/kg	172	859
65794-96-9	m,p-Cresols	U	859	ug/kg	258	859
67-72-1	Hexachloroethane	U	859	ug/kg	172	859
98-95-3	Nitrobenzene	U	859	ug/kg	172	859
78-59-1	Isophorone	U	859	ug/kg	172	859
88-75-5	2-Nitrophenol	U	859	ug/kg	172	859
105-67-9	2,4-Dimethylphenol	U	859	ug/kg	301	859
111-91-1	bis(2-Chloroethoxy)methane	U	859	ug/kg	172	859
120-83-2	2,4-Dichlorophenol	U	859	ug/kg	172	859
65-85-0	Benzoic acid	J	1650	ug/kg	430	1720
91-20-3	Naphthalene	U	85.9	ug/kg	25.8	85.9
106-47-8	4-Chloroaniline	U	859	ug/kg	172	859
87-68-3	Hexachlorobutadiene	U	859	ug/kg	172	859
91-57-6	2-Methylnaphthalene	U	85.9	ug/kg	17.2	85.9
77-47-4	Hexachlorocyclopentadiene	U	859	ug/kg	172	859
88-06-2	2,4,6-Trichlorophenol	U	859	ug/kg	172	859
95-95-4	2,4,5-Trichlorophenol	U	859	ug/kg	172	859
91-58-7	2-Chloronaphthalene	U	85.9	ug/kg	28.4	85.9
88-74-4	2-Nitroaniline	U	859	ug/kg	172	859
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	859	ug/kg	172	859

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197010	Date Received: 02/26/2010 08:45	%Moisture: 22.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7434	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/15/2010 19:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1517.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	859	ug/kg	172	859
606-20-2	2,6-Dinitrotoluene	U	859	ug/kg	85.9	859
208-96-8	Acenaphthylene	U	85.9	ug/kg	25.8	85.9
51-28-5	2,4-Dinitrophenol	U	1720	ug/kg	327	1720
132-64-9	Dibenzofuran	U	859	ug/kg	172	859
84-66-2	Diethylphthalate	U	859	ug/kg	172	859
86-73-7	Fluorene	U	85.9	ug/kg	25.8	85.9
7005-72-3	4-Chlorophenylphenylether	U	859	ug/kg	172	859
534-52-1	2-Methyl-4,6-dinitrophenol	U	859	ug/kg	172	859
100-01-6	4-Nitroaniline	U	859	ug/kg	258	859
	<i>p-Nitroaniline</i>					
122-39-4	Diphenylamine	U	859	ug/kg	172	859
122-66-7	Azobenzene	U	859	ug/kg	172	859
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether	U	859	ug/kg	172	859
118-74-1	Hexachlorobenzene	U	859	ug/kg	172	859
85-01-8	Phenanthrene		118	ug/kg	25.8	85.9
120-12-7	Anthracene	U	85.9	ug/kg	17.2	85.9
84-74-2	Di-n-butylphthalate	U	859	ug/kg	172	859
206-44-0	Fluoranthene		149	ug/kg	25.8	85.9
85-68-7	Butylbenzylphthalate	U	859	ug/kg	172	859
56-55-3	Benzo(a)anthracene	J	79.3	ug/kg	25.8	85.9
91-94-1	3,3'-Dichlorobenzidine	U	859	ug/kg	258	859
218-01-9	Chrysene	J	65.3	ug/kg	25.8	85.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	859	ug/kg	172	859
117-84-0	Di-n-octylphthalate	U	859	ug/kg	172	859
205-99-2	Benzo(b)fluoranthene		119	ug/kg	25.8	85.9
207-08-9	Benzo(k)fluoranthene	U	85.9	ug/kg	25.8	85.9
50-32-8	Benzo(a)pyrene	J	61.0	ug/kg	25.8	85.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	33.7	ug/kg	25.8	85.9
53-70-3	Dibenzo(a,h)anthracene	U	85.9	ug/kg	25.8	85.9
191-24-2	Benzo(ghi)perylene	J	37.4	ug/kg	25.8	85.9
120-82-1	1,2,4-Trichlorobenzene	U	859	ug/kg	172	859

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.83	1510	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.37	522	ug/kg	97	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7434
Batch ID: 960459
Run Date: 03/15/2010 19:04
Prep Date: 03/03/2010 23:09
Data File: s3c1517.d

CAS No.	Parname	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
112-95-8	Unknown	7.89	691	ug/kg		J
	Unknown	8.39	451	ug/kg		J
	Unknown	8.5	349	ug/kg		J
	Unknown	8.9	473	ug/kg		J
	Unknown	8.93	677	ug/kg		J
	Eicosane	9.03	624	ug/kg	96	NJ
	Unknown	9.75	406	ug/kg		J
	Unknown	12.23	555	ug/kg		J

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

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 18.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7516
Batch ID: 960459
Run Date: 03/13/2010 16:56
Prep Date: 03/03/2010 23:09
Data File: s3c1319.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	809	ug/kg	162	809
108-95-2	Phenol	U	809	ug/kg	162	809
95-57-8	2-Chlorophenol	U	809	ug/kg	162	809
106-46-7	1,4-Dichlorobenzene	U	809	ug/kg	162	809
621-64-7	N-Nitrosodipropylamine	U	809	ug/kg	162	809
59-50-7	4-Chloro-3-methylphenol	U	809	ug/kg	162	809
83-32-9	Acenaphthene	U	80.9	ug/kg	26.7	80.9
121-14-2	2,4-Dinitrotoluene	U	809	ug/kg	80.9	809
100-02-7	4-Nitrophenol	U	809	ug/kg	267	809
87-86-5	Pentachlorophenol	U	809	ug/kg	202	809
129-00-0	Pyrene		96.7	ug/kg	24.3	80.9
110-86-1	Pyridine	U	809	ug/kg	162	809
62-53-3	Aniline	U	809	ug/kg	243	809
111-44-4	bis(2-Chloroethyl) ether	U	809	ug/kg	162	809
541-73-1	1,3-Dichlorobenzene	U	809	ug/kg	162	809
100-51-6	Benzyl alcohol	U	809	ug/kg	243	809
95-50-1	1,2-Dichlorobenzene	U	809	ug/kg	162	809
108-60-1	bis(2-Chloroisopropyl)ether	U	809	ug/kg	162	809
95-48-7	o-Cresol	U	809	ug/kg	162	809
65794-96-9	m,p-Cresols	U	809	ug/kg	243	809
67-72-1	Hexachloroethane	U	809	ug/kg	162	809
98-95-3	Nitrobenzene	U	809	ug/kg	162	809
78-59-1	Isophorone	U	809	ug/kg	162	809
88-75-5	2-Nitrophenol	U	809	ug/kg	162	809
105-67-9	2,4-Dimethylphenol	U	809	ug/kg	283	809
111-91-1	bis(2-Chloroethoxy)methane	U	809	ug/kg	162	809
120-83-2	2,4-Dichlorophenol	U	809	ug/kg	162	809
65-85-0	Benzoic acid	U	1620	ug/kg	404	1620
91-20-3	Naphthalene	U	80.9	ug/kg	24.3	80.9
106-47-8	4-Chloroaniline	U	809	ug/kg	162	809
87-68-3	Hexachlorobutadiene	U	809	ug/kg	162	809
91-57-6	2-Methylnaphthalene	U	80.9	ug/kg	16.2	80.9
77-47-4	Hexachlorocyclopentadiene	U	809	ug/kg	162	809
88-06-2	2,4,6-Trichlorophenol	U	809	ug/kg	162	809
95-95-4	2,4,5-Trichlorophenol	U	809	ug/kg	162	809
91-58-7	2-Chloronaphthalene	U	80.9	ug/kg	26.7	80.9
88-74-4	2-Nitroaniline	U	809	ug/kg	162	809
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	809	ug/kg	162	809

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7516	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:56	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s3c1319.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	809	ug/kg	162	809
606-20-2	2,6-Dinitrotoluene	U	809	ug/kg	80.9	809
208-96-8	Acenaphthylene	U	80.9	ug/kg	24.3	80.9
51-28-5	2,4-Dinitrophenol	U	1620	ug/kg	307	1620
132-64-9	Dibenzofuran	U	809	ug/kg	162	809
84-66-2	Diethylphthalate	U	809	ug/kg	162	809
86-73-7	Fluorene	U	80.9	ug/kg	24.3	80.9
7005-72-3	4-Chlorophenylphenylether	U	809	ug/kg	162	809
534-52-1	2-Methyl-4,6-dinitrophenol	U	809	ug/kg	162	809
100-01-6	4-Nitroaniline	U	809	ug/kg	243	809
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	809	ug/kg	162	809
122-66-7	Azobenzene	U	809	ug/kg	162	809
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	809	ug/kg	162	809
118-74-1	Hexachlorobenzene	U	809	ug/kg	162	809
85-01-8	Phenanthrene	J	63.1	ug/kg	24.3	80.9
120-12-7	Anthracene	U	80.9	ug/kg	16.2	80.9
84-74-2	Di-n-butylphthalate	U	809	ug/kg	162	809
206-44-0	Fluoranthene		87.1	ug/kg	24.3	80.9
85-68-7	Butylbenzylphthalate	U	809	ug/kg	162	809
56-55-3	Benzo(a)anthracene	J	54.4	ug/kg	24.3	80.9
91-94-1	3,3'-Dichlorobenzidine	U	809	ug/kg	243	809
218-01-9	Chrysene	J	58.3	ug/kg	24.3	80.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	809	ug/kg	162	809
117-84-0	Di-n-octylphthalate	U	809	ug/kg	162	809
205-99-2	Benzo(b)fluoranthene		113	ug/kg	24.3	80.9
207-08-9	Benzo(k)fluoranthene	U	80.9	ug/kg	24.3	80.9
50-32-8	Benzo(a)pyrene	J	49.5	ug/kg	24.3	80.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	24.9	ug/kg	24.3	80.9
53-70-3	Dibenzo(a,h)anthracene	U	80.9	ug/kg	24.3	80.9
191-24-2	Benzo(ghi)perylene	J	32.7	ug/kg	24.3	80.9
120-82-1	1,2,4-Trichlorobenzene	U	809	ug/kg	162	809

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.62	492	ug/kg		J
3386-33-2	Octadecane, 1-chloro-	8	516	ug/kg	89	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7516	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 16:56	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s3c1319.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
506-51-4	1-Tetracosanol		8.43	930	ug/kg	87	NJ
17312-55-9	Decane, 3,8-dimethyl-		8.93	826	ug/kg	90	NJ
112-95-8	Eicosane		9.61	527	ug/kg	95	NJ
	Unknown		9.66	1100	ug/kg		J
	Unknown		10.44	436	ug/kg		J
83-46-5	.beta.-Sitosterol		11.07	641	ug/kg	93	NJ
	Unknown		11.46	1180	ug/kg		J

QC Summary

Semi-Volatile
Surrogate Recovery Report

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SDG Number: 10-2121

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
1202060169	MB for batch 960457	82	80	87	80	89	97
1202060170	LCS for batch 960457	78	76	78	73	90	85
248197001	RE36-10-7405	55 D	54 D	58 D	55 D	55 D	68 D
248197002	RE36-10-7403	63 D	61 D	66 D	62 D	59 D	77 D
248197003	RE36-10-7406	72 D	70 D	74 D	71 D	71 D	85 D
248197004	RE36-10-7404	72 D	71 D	72 D	70 D	73 D	96 D
248197005	RE36-10-7516	64 D	62 D	65 D	63 D	66 D	88 D
248197007	RE36-10-7426	84 D	80 D	90 D	85 D	81 D	122 D
248197008	RE36-10-7432	70 D	69 D	72 D	69 D	67 D	84 D
248197012	RE36-10-7429	78 D	78 D	82 D	79 D	82 D	102 D
248197013	RE36-10-7433	78 D	76 D	82 D	79 D	80 D	118 D
248197009	RE36-10-7431DL	151 * D	149 * D	176 * D	165 * D	121 * D	208 * D
248197009	RE36-10-7431	58 D	58 D	64 D	62 D	57 D	89 D
248197011	RE36-10-7425DL	126 * D	113 * D	142 * D	132 * D	97 D	178 * D
248197011	RE36-10-7425	79 D	79 D	87 D	80 D	76 D	106 D
248197010	RE36-10-7434	64 D	63 D	70 D	62 D	56 D	79 D

Surrogate**Acceptance Limits**

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = p-Terphenyl-d14

(29%-99%)
 (33%-98%)
 (31%-105%)
 (25%-109%)
 (37%-106%)
 (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

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SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 960457

Matrix: SOIL

Lab Sample ID: 1202060170

Instrument: MSD3.I

Analysis Date: 03/13/2010 13:19

Dilution: 1

Analyst: JLD1

Prep Batch ID: 960457

Inj. Vol: .5 uL

Batch ID: 960459

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	1200	72	22-114
108-95-2	LCS Phenol	1670	0.0	1330	80	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1350	81	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1210	73	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1430	86	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1390	84	42-114
83-32-9	LCS Acenaphthene	1670	0.0	1260	76	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1360	82	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	1340	80	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1440	86	27-116
129-00-0	LCS Pyrene	1670	0.0	1200	72	42-113
110-86-1	LCS Pyridine	1670	0.0	1280	77	8-125
62-53-3	LCS Aniline	1670	0.0	865	52	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	1240	74	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1230	74	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	1250	75	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1240	74	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	1360	82	28-117
95-48-7	LCS o-Cresol	1670	0.0	1350	81	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1520	91	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	1250	75	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1390	83	33-116

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 4

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 960457

Matrix: SOIL

Lab Sample ID: 1202060170

Instrument: MSD3.I

Analysis Date: 03/13/2010 13:19

Dilution: 1

Analyst: JLD1

Prep Batch ID: 960457

Inj. Vol: .5 uL

Batch ID: 960459

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	1340	80	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1350	81	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1350	81	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1300	78	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1330	80	34-116
65-85-0	LCS Benzoic acid	3330	0.0	3160	95	22-138
91-20-3	LCS Naphthalene	1670	0.0	1240	74	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	893	54	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1310	79	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1330	80	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1560	94	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1290	78	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1340	81	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1250	75	37-111
88-74-4	LCS 2-Nitroaniline o-Nitroaniline	1670	0.0	1380	83	41-113
99-09-2	LCS 3-Nitroaniline m-Nitroaniline	1670	0.0	1220	73	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1360	81	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1300	78	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1320	79	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	1480	89	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1310	79	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1420	85	51-126

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 960457

Matrix: SOIL

Lab Sample ID: 1202060170

Instrument: MSD3.I

Analysis Date: 03/13/2010 13:19

Dilution: 1

Analyst: JLD1

Prep Batch II 960457

Inj. Vol: .5 uL

Batch ID: 960459

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	1280	77	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1310	78	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	1590	95	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1440	86	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1520	91	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1310	79	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1290	77	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1310	78	46-107
120-12-7	LCS Anthracene	1670	0.0	1280	77	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1500	90	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1380	83	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1450	87	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1290	78	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	1120	67	36-103
218-01-9	LCS Chrysene	1670	0.0	1260	75	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1510	91	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1510	91	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1390	83	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1210	72	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1300	78	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1420	85	53-120

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 960457

Matrix: SOIL

Lab Sample ID: 1202060170

Instrument: MSD3.I

Analysis Date: 03/13/2010 13:19

Dilution: 1

Analyst: JLD1

Pre Batch ID: 960457

Inj. Vol: .5 uL

Batch ID: 960459

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	1460	88	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1340	81	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1270	76	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-2121

Client ID: WST36-10-8928MS

Lab Sample ID: 1202060171

Instrument: MSD3.I

Analyst: JLD1

Inj. Vol: .5 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 2.1

Analysis Date: 03/13/2010 19:30

Dilution: 2

Prep Batch ID: 960457

Batch ID: 960459

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	1690	0.00 U	911	54	27-98
108-95-2	MS Phenol	1690	0.00 U	1110	66	33-94
95-57-8	MS 2-Chlorophenol	1690	0.00 U	1130	67	29-96
106-46-7	MS 1,4-Dichlorobenzene	1690	0.00 U	1000	59	27-96
621-64-7	MS N-Nitrosodipropylamine	1690	0.00 U	1250	74	29-102
59-50-7	MS 4-Chloro-3-methylphenol	1690	0.00 U	1430	84	29-110
83-32-9	MS Acenaphthene	1690	0.00 U	1200	71	17-109
121-14-2	MS 2,4-Dinitrotoluene	1690	0.00 U	1330	79	33-107
100-02-7	MS 4-Nitrophenol	1690	0.00 U	1360	80	15-110
87-86-5	MS Pentachlorophenol	1690	0.00 U	1360	80	23-110
129-00-0	MS Pyrene	1690	0.00 U	1600	94	24-118
110-86-1	MS Pyridine	1690	0.00 U	719	42	25-102
62-53-3	MS Aniline	1690	0.00 U	938	55	18-109
111-44-4	MS bis(2-Chloroethyl) ether	1690	0.00 U	1020	60	29-96
541-73-1	MS 1,3-Dichlorobenzene	1690	0.00 U	981	58	26-97
100-51-6	MS Benzyl alcohol	1690	0.00 U	907	54	19-112
95-50-1	MS 1,2-Dichlorobenzene	1690	0.00 U	1010	60	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	1690	0.00 U	1210	71	28-103
95-48-7	MS o-Cresol	1690	0.00 U	1250	74	32-107
65794-96-9	MS m,p-Cresols	1690	0.00 U	1370	81	33-115
67-72-1	MS Hexachloroethane	1690	0.00 U	893	53	25-100
98-95-3	MS Nitrobenzene	1690	0.00 U	1210	71	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Matrix Spike

Client ID: WST36-10-8928MS

Matrix: R

Lab Sample ID: 1202060171

%Moisture: 2.1

Instrument: MSD3.I

Analysis Date: 03/13/2010 19:30

Dilution: 2

Analyst: JLD1

Prep Batch ID: 960457

Inj. Vol: .5 uL

Batch ID: 960459

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg		Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	1690	0.00	U	1280	76	29-104
88-75-5	MS 2-Nitrophenol	1690	0.00	U	1120	66	26-102
105-67-9	MS 2,4-Dimethylphenol	1690	0.00	U	1270	75	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	1690	0.00	U	1200	71	27-101
120-83-2	MS 2,4-Dichlorophenol	1690	0.00	U	1270	75	26-103
65-85-0	MS Benzoic acid	3380	0.00	U	1640	48	13-131
91-20-3	MS Naphthalene	1690	0.00	U	1120	66	23-103
106-47-8	MS 4-Chloroaniline	1690	0.00	U	1050	62	26-103
87-68-3	MS Hexachlorobutadiene	1690	0.00	U	1100	65	28-101
91-57-6	MS 2-Methylnaphthalene	1690	0.00	U	1280	76	27-106
77-47-4	MS Hexachlorocyclopentadiene	1690	0.00	U	701	41	24-117
88-06-2	MS 2,4,6-Trichlorophenol	1690	0.00	U	1290	76	26-105
95-95-4	MS 2,4,5-Trichlorophenol	1690	0.00	U	1290	76	30-110
91-58-7	MS 2-Chloronaphthalene	1690	0.00	U	1240	73	28-102
88-74-4	MS 2-Nitroaniline <i>o</i> -Nitroaniline	1690	0.00	U	1400	83	33-106
99-09-2	MS 3-Nitroaniline <i>m</i> -Nitroaniline	1690	0.00	U	1400	83	33-116
131-11-3	MS Dimethylphthalate	1690	0.00	U	1440	85	38-113
606-20-2	MS 2,6-Dinitrotoluene	1690	0.00	U	1270	75	29-107
208-96-8	MS Acenaphthylene	1690	0.00	U	1340	79	25-108
51-28-5	MS 2,4-Dinitrophenol	1690	0.00	U	1060	63	14-102
132-64-9	MS Dibenzofuran	1690	0.00	U	1350	80	35-112
84-66-2	MS Diethylphthalate	1690	0.00	U	1530	91	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Matrix Spike

Client ID: WST36-10-8928MS

Matrix: R

Lab Sample ID: 1202060171

%Moisture: 2.1

Instrument: MSD3.I

Analysis Date: 03/13/2010 19:30

Dilution: 2

Analyst: JLD1

Prep Batch II 960457

Inj. Vol: .5 uL

Batch ID: 960459

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	1690	0.00 U	1330	79	33-105
7005-72-3	MS 4-Chlorophenylphenylether	1690	0.00 U	1330	78	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	1690	0.00 U	878	52	26-97
100-01-6	MS 4-Nitroaniline <i>p</i> -Nitroaniline	1690	0.00 U	1870	110	28-135
122-39-4	MS Diphenylamine	1690	0.00 U	1590	94	33-109
122-66-7	MS Azobenzene <i>1,2</i> -Diphenylhydrazine	1690	0.00 U	1690	100	31-113
101-55-3	MS 4-Bromophenylphenylether	1690	0.00 U	1380	82	31-109
118-74-1	MS Hexachlorobenzene	1690	0.00 U	1380	81	37-99
85-01-8	MS Phenanthrene	1690	0.00 U	1410	84	29-109
120-12-7	MS Anthracene	1690	0.00 U	1430	84	19-118
84-74-2	MS Di-n-butylphthalate	1690	0.00 U	1710	101	39-123
206-44-0	MS Fluoranthene	1690	0.00 U	1340	79	33-114
85-68-7	MS Butylbenzylphthalate	1690	0.00 U	2010	119	35-131
56-55-3	MS Benzo(a)anthracene	1690	0.00 U	1540	91	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	1690	0.00 U	1410	83	30-124
218-01-9	MS Chrysene	1690	0.00 U	1290	76	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	1690	0.00 U	2090	124	37-129
117-84-0	MS Di-n-octylphthalate	1690	0.00 U	2910	172 *	31-143
205-99-2	MS Benzo(b)fluoranthene	1690	0.00 U	1700	100	29-118
207-08-9	MS Benzo(k)fluoranthene	1690	0.00 U	1510	89	32-118
50-32-8	MS Benzo(a)pyrene	1690	0.00 U	1440	85	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	1690	0.00 U	1060	63	29-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Client ID: WST36-10-8928MS

Lab Sample ID:1202060171

Instrument: MSD3.I

Analyst: JLD1

Inj. Vol: .5 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 2.1

Analysis Date: 03/13/2010 19:30

Dilution: 2

Prep Batch ID: 960457

Batch ID: 960459

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	1690	0.00 U	1100	65	27-119
191-24-2	MS Benzo(ghi)perylene	1690	0.00 U	937	55	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	1690	0.00 U	1130	67	28-99

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Client ID: WST36-10-8928MSD

Lab Sample ID: 1202060172

Instrument: MSD3.I

Analyst: JLD1

Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 2.1

Analysis Date: 03/13/2010 19:49

Dilution: 2

Prep Batch ID: 960457

Batch ID: 960459

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	1700	0.00 U	1010	59	27-98	10	0-30
108-95-2	MSD Phenol	1700	0.00 U	1170	69	33-94	5	0-30
95-57-8	MSD 2-Chlorophenol	1700	0.00 U	1200	71	29-96	6	0-30
106-46-7	MSD 1,4-Dichlorobenzene	1700	0.00 U	1090	64	27-96	9	0-30
621-64-7	MSD N-Nitrosodipropylamine	1700	0.00 U	1280	75	29-102	2	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	1700	0.00 U	1290	76	29-110	10	0-30
83-32-9	MSD Acenaphthene	1700	0.00 U	1130	66	17-109	6	0-30
121-14-2	MSD 2,4-Dinitrotoluene	1700	0.00 U	1170	69	33-107	13	0-30
100-02-7	MSD 4-Nitrophenol	1700	0.00 U	1180	70	15-110	14	0-30
87-86-5	MSD Pentachlorophenol	1700	0.00 U	1200	71	23-110	12	0-30
129-00-0	MSD Pyrene	1700	0.00 U	1410	83	24-118	13	0-30
110-86-1	MSD Pyridine	1700	0.00 U	863	51	25-102	18	0-30
62-53-3	MSD Aniline	1700	0.00 U	991	58	18-109	5	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	1700	0.00 U	1110	65	29-96	9	0-30
541-73-1	MSD 1,3-Dichlorobenzene	1700	0.00 U	1090	64	26-97	11	0-30
100-51-6	MSD Benzyl alcohol	1700	0.00 U	671	39	19-112	30	0-30
95-50-1	MSD 1,2-Dichlorobenzene	1700	0.00 U	1100	65	30-97	8	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	1700	0.00 U	1280	75	28-103	6	0-30
95-48-7	MSD o-Cresol	1700	0.00 U	1290	76	32-107	3	0-30
65794-96-9	MSD m,p-Cresols	1700	0.00 U	1400	82	33-115	2	0-30
67-72-1	MSD Hexachloroethane	1700	0.00 U	998	59	25-100	11	0-30
98-95-3	MSD Nitrobenzene	1700	0.00 U	1280	75	27-106	6	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Client ID: WST36-10-8928MSD

Lab Sample ID: 1202060172

Instrument: MSD3.I

Analyst: JLD1

Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 2.1

Analysis Date: 03/13/2010 19:49

Dilution: 2

Prep Batch II 960457

Batch ID: 960459

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	U	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	1700	0.00	U	1250	73	29-104	3	0-30
88-75-5	MSD 2-Nitrophenol	1700	0.00	U	1170	69	26-102	4	0-30
105-67-9	MSD 2,4-Dimethylphenol	1700	0.00	U	1230	72	22-104	4	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	1700	0.00	U	1220	72	27-101	2	0-30
120-83-2	MSD 2,4-Dichlorophenol	1700	0.00	U	1230	73	26-103	3	0-30
65-85-0	MSD Benzoic acid	3400	0.00	U	1560	46	13-131	5	0-30
91-20-3	MSD Naphthalene	1700	0.00	U	1170	69	23-103	4	0-30
106-47-8	MSD 4-Chloroaniline	1700	0.00	U	992	58	26-103	6	0-30
87-68-3	MSD Hexachlorobutadiene	1700	0.00	U	1200	71	28-101	9	0-30
91-57-6	MSD 2-Methylnaphthalene	1700	0.00	U	1260	74	27-106	1	0-30
77-47-4	MSD Hexachlorocyclopentadiene	1700	0.00	U	846	50	24-117	19	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	1700	0.00	U	1140	67	26-105	13	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	1700	0.00	U	1220	72	30-110	6	0-30
91-58-7	MSD 2-Chloronaphthalene	1700	0.00	U	1170	69	28-102	6	0-30
88-74-4	MSD 2-Nitroaniline <i>o</i> -Nitroaniline	1700	0.00	U	1270	75	33-106	10	0-30
99-09-2	MSD 3-Nitroaniline <i>m</i> -Nitroaniline	1700	0.00	U	1240	73	33-116	12	0-30
131-11-3	MSD Dimethylphthalate	1700	0.00	U	1270	75	38-113	12	0-30
606-20-2	MSD 2,6-Dinitrotoluene	1700	0.00	U	1140	67	29-107	11	0-30
208-96-8	MSD Acenaphthylene	1700	0.00	U	1240	73	25-108	8	0-30
51-28-5	MSD 2,4-Dinitrophenol	1700	0.00	U	1060	62	14-102	0	0-30
132-64-9	MSD Dibenzofuran	1700	0.00	U	1220	72	35-112	10	0-30
84-66-2	MSD Diethylphthalate	1700	0.00	U	1320	78	36-122	15	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Sample Type: Matrix Spike Duplicate

Client ID: WST36-10-8928MSD

Matrix: R

Lab Sample ID: 1202060172

%Moisture: 2.1

Instrument: MSD3.I

Analysis Date: 03/13/2010 19:49

Dilution: 2

Analyst: JLD1

Prep Batch II 960457

Inj. Vol: .5 uL

Batch ID: 960459

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	1700	0.00 U	1190	70	33-105	12	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	1700	0.00 U	1200	71	30-110	10	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	1700	0.00 U	814	48	26-97	8	0-30
100-01-6	MSD 4-Nitroaniline <i>p</i> -Nitroaniline	1700	0.00 U	1720	101	28-135	8	0-30
122-39-4	MSD Diphenylamine	1700	0.00 U	1390	82	33-109	14	0-30
122-66-7	MSD Azobenzene <i>1,2</i> -Diphenylhydrazine	1700	0.00 U	1470	87	31-113	14	0-30
101-55-3	MSD 4-Bromophenylphenylether	1700	0.00 U	1200	70	31-109	14	0-30
118-74-1	MSD Hexachlorobenzene	1700	0.00 U	1170	69	37-99	16	0-30
85-01-8	MSD Phenanthrene	1700	0.00 U	1230	72	29-109	14	0-30
120-12-7	MSD Anthracene	1700	0.00 U	1210	71	19-118	16	0-30
84-74-2	MSD Di-n-butylphthalate	1700	0.00 U	1430	84	39-123	18	0-30
206-44-0	MSD Fluoranthene	1700	0.00 U	1140	67	33-114	17	0-30
85-68-7	MSD Butylbenzylphthalate	1700	0.00 U	1710	101	35-131	16	0-30
56-55-3	MSD Benzo(a)anthracene	1700	0.00 U	1310	77	30-111	17	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	1700	0.00 U	1190	70	30-124	17	0-30
218-01-9	MSD Chrysene	1700	0.00 U	1120	66	32-108	15	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	1700	0.00 U	1810	107	37-129	14	0-30
117-84-0	MSD Di-n-octylphthalate	1700	0.00 U	2430	143	31-143	18	0-30
205-99-2	MSD Benzo(b)fluoranthene	1700	0.00 U	1370	81	29-118	21	0-30
207-08-9	MSD Benzo(k)fluoranthene	1700	0.00 U	1350	79	32-118	12	0-30
50-32-8	MSD Benzo(a)pyrene	1700	0.00 U	1240	73	33-115	15	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	1700	0.00 U	941	55	29-114	12	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-2121

Client ID: WST36-10-8928MSD

Lab Sample ID: 1202060172

Instrument: MSD3.I

Analyst: JLD1

Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 2.1

Analysis Date: 03/13/2010 19:49

Dilution: 2

Prep Batch ID: 960457

Batch ID: 960459

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	1700	0.00	U	948	56	27-119	15	0-30
191-24-2	MSD Benzo(ghi)perylene	1700	0.00	U	815	48	28-112	14	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	1700	0.00	U	1180	70	28-99	5	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-2121	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 960457	Instrument ID:	MSD3.I	Data File:	s3c1307-1.d
Lab Sample ID:	1202060169	Prep Date:	03/03/2010 23:09	Analyzed:	03/13/10 12:59
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 960457	1202060170	s3c1308-1.d	03/13/10	1319
02 RE36-10-7405	248197001	s3c1315.d	03/13/10	1538
03 RE36-10-7403	248197002	s3c1316.d	03/13/10	1558
04 RE36-10-7406	248197003	s3c1317.d	03/13/10	1617
05 RE36-10-7404	248197004	s3c1318.d	03/13/10	1636
06 RE36-10-7516	248197005	s3c1319.d	03/13/10	1656
07 RE36-10-7426	248197007	s3c1320.d	03/13/10	1715
08 RE36-10-7432	248197008	s3c1321.d	03/13/10	1734
09 RE36-10-7429	248197012	s3c1323.d	03/13/10	1813
10 RE36-10-7433	248197013	s3c1324.d	03/13/10	1832
13 RE36-10-7431DL	248197009	s3c1331.d	03/13/10	2047
14 RE36-10-7431	248197009	s3c1332.d	03/13/10	2107
15 RE36-10-7425DL	248197011	s3c1334.d	03/13/10	2145
16 RE36-10-7425	248197011	s3c1335.d	03/13/10	2204
17 RE36-10-7434	248197010	s3c1517.d	03/15/10	1904

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: MSD3.1

Injection Date/Time: 09-MAR-10 15:53

Column Description: J&W DB-5MS

Lab File ID /chem/MSD3.i/s030910a.b/s3c0917.d

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	43.3
68	Less than 2% of mass 69	1.8
198	Base Peak, 100% Relative Abundance	100
69	Mass 69 Relative Abundance	38
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	54.2
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	22.3
365	Greater than 1% of mass 198	2.2
441	Present, but less than mass 443	77
442	Greater than 40% of mass 198	65
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
MEGAICAL01	WBN100309-08	s3c0919.d	09-MAR-10 16:24
MEGAICAL010	WBN100309-07	s3c0920.d	09-MAR-10 16:47
MEGAICAL020	WBN100309-06	s3c0921.d	09-MAR-10 17:11
MEGAICAL	WBN100309-05.1	s3c0922.d	09-MAR-10 17:34
MEGAICAL	WBN100309-04	s3c0923.d	09-MAR-10 17:58
MEGAICAL	WBN100309-03	s3c0924.d	09-MAR-10 18:22
MEGAICAL	WBN100309-02	s3c0925.d	09-MAR-10 18:46
MEGAICAL	WBN100309-01	s3c0926.d	09-MAR-10 19:10
MEGAICV	WBN100225-09.1	s3c0927.d	09-MAR-10 19:33

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: MSD3.I

Injection Date/Time: 09-MAR-10 20:38

Column Description: J&W DB-5MS

Lab File ID /chem/MSD3.i/s030910a.b/s3c0928.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	48.9
68	Less than 2% of mass 69	1.7
69	Mass 69 Relative Abundance	40.8
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	57.3
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	21
365	Greater than 1% of mass 198	2.2
441	Present, but less than mass 443	77.9
442	Greater than 40% of mass 198	54.8
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
AP010	WBN100218-01	s3c0930.d	09-MAR-10 21:10
AP020	WBN100218-02	s3c0931.d	09-MAR-10 21:29
AP040	WBN100218-03.1	s3c0932.d	09-MAR-10 21:49
AP050	WBN100218-04	s3c0933.d	09-MAR-10 22:08
AP080	WBN100218-05	s3c0934.d	09-MAR-10 22:27
AP100	WBN100218-06	s3c0935.d	09-MAR-10 22:47
AP120	WBN100218-07	s3c0936.d	09-MAR-10 23:06
APICV	WBN100218-08.1	s3c0950.d	10-MAR-10 03:36

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: MSD3.1

Injection Date/Time: 13-MAR-10 10:37

Column Description: J&W DB-5MS

Lab File ID /chem/MSD3.i/s031310.b/s3c1301.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	45.8
68	Less than 2% of mass 69	1.7
69	Mass 69 Relative Abundance	40.1
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	56.6
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	22.1
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	76.3
442	Greater than 40% of mass 198	63.1
443	17 - 23% of mass 442	19.7

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
MEGACVS	WBN100309-09.2	s3c1303.d	13-MAR-10 11:13
APCVS	WBN100218-08.3	s3c1304.d	13-MAR-10 11:36
SBLK01	1202060169	s3c1307-1.d	13-MAR-10 12:59
SBLK01LCS	1202060170	s3c1308-1.d	13-MAR-10 13:19
RE36-10-7405	248197001	s3c1315.d	13-MAR-10 15:38
RE36-10-7403	248197002	s3c1316.d	13-MAR-10 15:58
RE36-10-7406	248197003	s3c1317.d	13-MAR-10 16:17
RE36-10-7404	248197004	s3c1318.d	13-MAR-10 16:36
RE36-10-7516	248197005	s3c1319.d	13-MAR-10 16:56
RE36-10-7426	248197007	s3c1320.d	13-MAR-10 17:15
RE36-10-7432	248197008	s3c1321.d	13-MAR-10 17:34
RE36-10-7429	248197012	s3c1323.d	13-MAR-10 18:13
RE36-10-7433	248197013	s3c1324.d	13-MAR-10 18:32
RE36-10-7431DL	248197009	s3c1331.d	13-MAR-10 20:47
RE36-10-7431	248197009	s3c1332.d	13-MAR-10 21:07
RE36-10-7425DL	248197011	s3c1334.d	13-MAR-10 21:45

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: MSD3.I

Injection Date/Time: 13-MAR-10 10:37

Column Description: J&W DB-5MS

Lab File ID /chem/MSD3.i/s031310.b/s3c1301.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	45.8
68	Less than 2% of mass 69	1.7
69	Mass 69 Relative Abundance	40.1
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	56.6
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	22.1
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	76.3
442	Greater than 40% of mass 198	63.1
443	17 - 23% of mass 442	19.7

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
RE36-10-7425	248197011	s3c1335.d	13-MAR-10 22:04

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-2121

Instrument ID: MSD3.I

Injection Date/Time: 15-MAR-10 15:17

Column Description: J&W DB-5MS

Lab File ID /chem/MSD3.i/s031510.b/s3c1507.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	49.1
68	Less than 2% of mass 69	1.7
69	Mass 69 Relative Abundance	41.8
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	58.8
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	21.4
365	Greater than 1% of mass 198	2.2
441	Present, but less than mass 443	77.4
442	Greater than 40% of mass 198	57.5
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
APCVS	WBN100312-03.3	s3c1509.d	15-MAR-10 15:51
MEGACVS	WBN100309-05.2	s3c1510.d	15-MAR-10 16:32
RE36-10-7434	248197010	s3c1517.d	15-MAR-10 19:04

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-2121

Instrument: MSD3.1

STD Analysis Time: 13-MAR-10 11:13

GC Column: J&W DB-5MS

Data File: s3c1303.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	420090		3.47	1737890		4.33	865868		5.57	1487152		6.59	1106909		8.17	840849		9.33
Upper Limit	840180		3.97	3475780		4.83	1731736		6.07	2974304		7.09	2213818		8.67	1681698		9.83
Lower Limit	210045		2.97	868945		3.83	432934		5.07	743576		6.09	553455		7.67	420425		8.83
Sample ID																		
BLK01	524010		3.47	1985095		4.33	1063348		5.57	1822171		6.59	1403639		8.17	1038135		9.34
BLK01LCS	583675		3.48	2402078		4.33	1222935		5.57	2098530		6.59	1724575		8.17	1326318		9.34
RE36-10-7405	681090		3.48	2560189		4.33	1377678		5.57	2318295		6.59	1435273		8.17	795277		9.34
RE36-10-7403	619134		3.48	2346854		4.33	1262980		5.57	2133616		6.59	1316043		8.17	639035		9.33
RE36-10-7406	528218		3.48	2008216		4.33	1100519		5.57	1882517		6.59	1263589		8.17	708147		9.33
RE36-10-7404	543761		3.48	2095432		4.33	1140024		5.57	1926795		6.59	1087137		8.17	607802		9.33
RE36-10-7516	626869		3.48	2373156		4.33	1283214		5.57	2111689		6.59	1173837		8.17	631167		9.33
RE36-10-7426	507567		3.48	1956097		4.33	1028387		5.57	1653883		6.59	900898		8.17	481475		9.33
RE36-10-7432	649298		3.48	2495900		4.33	1325708		5.57	2144197		6.59	1327933		8.17	717641		9.34
RE36-10-7429	598251		3.48	2297595		4.33	1228720		5.57	2051998		6.59	1323536		8.17	733967		9.34
RE36-10-7433	624949		3.48	2365709		4.33	1249203		5.57	2027757		6.59	993817		8.17	491213		9.33
RE36-10-7431DL	647687		3.48	2482222		4.33	1324318		5.57	2187446		6.59	1309766		8.17	706072		9.33
RE36-10-7431	637319		3.48	2445071		4.33	1287465		5.57	2144919		6.59	1080018		8.18	513714		9.34
RE36-10-7425DL	626241		3.48	2396948		4.33	1283519		5.57	2040493		6.59	1090122		8.17	553844		9.33
RE36-10-7425	563209		3.48	2182709		4.33	1164943		5.57	1915178		6.59	1097686		8.18	552148		9.34

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: 10-2121

Instrument: MSD3.I

STD Analysis Time: 15-MAR-10 16:32

GC Column: J&W DB-5MS

Data File: s3c1510.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	531357		3.55	2231127		4.4	1121632		5.64	1840988		6.66	1216449		8.26	777802		9.47
Upper Limit	1062714		4.05	4462254		4.9	2243264		6.14	3681976		7.16	2432898		8.76	1555604		9.97
Lower Limit	265679		3.05	1115564		3.9	560816		5.14	920494		6.16	608225		7.76	388901		8.97
Sample ID																		
RE36-10-7434	525412		3.54	2018406		4.4	1062421		5.64	1719003		6.66	1064764		8.25	709450		9.47

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: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7403
Batch ID: 960459
Run Date: 03/13/2010 15:58
Prep Date: 03/03/2010 23:09
Data File: s3c1316.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1550	ug/kg	309	1550
108-95-2	Phenol	U	1550	ug/kg	309	1550
95-57-8	2-Chlorophenol	U	1550	ug/kg	309	1550
106-46-7	1,4-Dichlorobenzene	U	1550	ug/kg	309	1550
621-64-7	N-Nitrosodipropylamine	U	1550	ug/kg	309	1550
59-50-7	4-Chloro-3-methylphenol	U	1550	ug/kg	309	1550
83-32-9	Acenaphthene	U	155	ug/kg	51.0	155
121-14-2	2,4-Dinitrotoluene	U	1550	ug/kg	155	1550
100-02-7	4-Nitrophenol	U	1550	ug/kg	510	1550
87-86-5	Pentachlorophenol	U	1550	ug/kg	386	1550
129-00-0	Pyrene		412	ug/kg	46.4	155
110-86-1	Pyridine	U	1550	ug/kg	309	1550
62-53-3	Aniline	U	1550	ug/kg	464	1550
111-44-4	bis(2-Chloroethyl) ether	U	1550	ug/kg	309	1550
541-73-1	1,3-Dichlorobenzene	U	1550	ug/kg	309	1550
100-51-6	Benzyl alcohol	U	1550	ug/kg	464	1550
95-50-1	1,2-Dichlorobenzene	U	1550	ug/kg	309	1550
108-60-1	bis(2-Chloroisopropyl)ether	U	1550	ug/kg	309	1550
95-48-7	o-Cresol	U	1550	ug/kg	309	1550
65794-96-9	m,p-Cresols	U	1550	ug/kg	464	1550
67-72-1	Hexachloroethane	U	1550	ug/kg	309	1550
98-95-3	Nitrobenzene	U	1550	ug/kg	309	1550
78-59-1	Isophorone	U	1550	ug/kg	309	1550
88-75-5	2-Nitrophenol	U	1550	ug/kg	309	1550
105-67-9	2,4-Dimethylphenol	U	1550	ug/kg	541	1550
111-91-1	bis(2-Chloroethoxy)methane	U	1550	ug/kg	309	1550
120-83-2	2,4-Dichlorophenol	U	1550	ug/kg	309	1550
65-85-0	Benzoic acid	U	3090	ug/kg	773	3090
91-20-3	Naphthalene	U	155	ug/kg	46.4	155
106-47-8	4-Chloroaniline	U	1550	ug/kg	309	1550
87-68-3	Hexachlorobutadiene	U	1550	ug/kg	309	1550
91-57-6	2-Methylnaphthalene	U	155	ug/kg	30.9	155
77-47-4	Hexachlorocyclopentadiene	U	1550	ug/kg	309	1550
88-06-2	2,4,6-Trichlorophenol	U	1550	ug/kg	309	1550
95-95-4	2,4,5-Trichlorophenol	U	1550	ug/kg	309	1550
91-58-7	2-Chloronaphthalene	U	155	ug/kg	51.0	155
88-74-4	2-Nitroaniline	U	1550	ug/kg	309	1550
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	1550	ug/kg	309	1550

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

SDG Number: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.13 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
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	1550	ug/kg	309	1550
606-20-2	2,6-Dinitrotoluene	U	1550	ug/kg	155	1550
208-96-8	Acenaphthylene	U	155	ug/kg	46.4	155
51-28-5	2,4-Dinitrophenol	U	3090	ug/kg	587	3090
132-64-9	Dibenzofuran	U	1550	ug/kg	309	1550
84-66-2	Diethylphthalate	U	1550	ug/kg	309	1550
86-73-7	Fluorene	U	155	ug/kg	46.4	155
7005-72-3	4-Chlorophenylphenylether	U	1550	ug/kg	309	1550
534-52-1	2-Methyl-4,6-dinitrophenol	U	1550	ug/kg	309	1550
100-01-6	4-Nitroaniline	U	1550	ug/kg	464	1550
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1550	ug/kg	309	1550
122-66-7	Azobenzene	U	1550	ug/kg	309	1550
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1550	ug/kg	309	1550
118-74-1	Hexachlorobenzene	U	1550	ug/kg	309	1550
85-01-8	Phenanthrene		265	ug/kg	46.4	155
120-12-7	Anthracene	J	48.4	ug/kg	30.9	155
84-74-2	Di-n-butylphthalate	U	1550	ug/kg	309	1550
206-44-0	Fluoranthene		411	ug/kg	46.4	155
85-68-7	Butylbenzylphthalate	U	1550	ug/kg	309	1550
56-55-3	Benzo(a)anthracene		242	ug/kg	46.4	155
91-94-1	3,3'-Dichlorobenzidine	U	1550	ug/kg	464	1550
218-01-9	Chrysene		267	ug/kg	46.4	155
117-81-7	bis(2-Ethylhexyl)phthalate	U	1550	ug/kg	309	1550
117-84-0	Di-n-octylphthalate	U	1550	ug/kg	309	1550
205-99-2	Benzo(b)fluoranthene		705	ug/kg	46.4	155
207-08-9	Benzo(k)fluoranthene	U	155	ug/kg	46.4	155
50-32-8	Benzo(a)pyrene		234	ug/kg	46.4	155
193-39-5	Indeno(1,2,3-cd)pyrene		157	ug/kg	46.4	155
53-70-3	Dibenzo(a,h)anthracene	U	155	ug/kg	46.4	155
191-24-2	Benzo(ghi)perylene	J	153	ug/kg	46.4	155
120-82-1	1,2,4-Trichlorobenzene	U	1550	ug/kg	309	1550

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.83	690	ug/kg		J
	Unknown	8	1260	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197002	Date Received: 02/26/2010 08:45	% Moisture: 14.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7403	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 4
Run Date: 03/13/2010 15:58	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.13 g	Final Volume: 1 mL
Data File: s3c1316.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	8.43	1620	ug/kg		J
	Unknown	8.54	810	ug/kg		J
	Unknown	9.66	4340	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1000	ug/kg	91	NJ
1058-61-3	Stigmast-4-en-3-one	11.96	799	ug/kg	93	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1316.d
Report Date: 14-Mar-2010 16:04

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1316.d
Lab Smp Id: 248197002 Client Smp ID: RE36-10-7403
Inj Date : 13-MAR-2010 15:58
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197002|960459|4|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	4.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.13000	weight of sample
M	14.08920	% 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	3.475	3.473	(1.000)	619134	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2346854	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570	(1.000)	1262980	40.0000	
* 67 Phenanthrene-d10	188	6.588	6.592	(1.000)	2133616	40.0000	
* 91 Chrysene-d12	240	8.171	8.169	(1.000)	1316043	40.0000	
* 98 Perylene-d12	264	9.332	9.330	(1.000)	639035	40.0000	
\$ 3 2-Fluorophenol	112	2.684	2.682	(0.772)	218085	15.6740	2420
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	249802	15.2817	2360
\$ 20 Nitrobenzene-d5	82	3.834	3.837	(0.886)	110465	8.26821	1280
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	248286	7.72683	1190
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126	(1.100)	42853	14.7982	2290
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	196738	9.64438	1490

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.460	7.463	(0.913)	101589	2.66587	412
68 Phenanthrene	178	6.604	6.608	(1.002)	83033	1.71800	265
69 Anthracene	178	6.636	6.640	(1.007)	14820	0.31318	48.4(a)
76 Fluoranthene	202	7.326	7.324	(1.112)	116394	2.65873	411
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	47951	1.56891	242
92 Chrysene	228	8.182	8.185	(1.001)	54013	1.72841	267
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	74003	4.56237	705
97 Benzo(a)pyrene	252	9.278	9.277	(0.994)	21117	1.51549	234
99 Indeno(1,2,3-cd)pyrene	276	10.594	10.603	(1.135)	12216	1.01676	157
101 Benzo(ghi)perylene	276	10.990	10.993	(1.178)	9744	0.98722	152(a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1316.d

Report Date: 03/14/2010 14:31

Lab. ID: 248197002

SampleType: SAMPLE

Injection Date: 13-MAR-2010 15:58

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197002|960459|4|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 4.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Isophorone			CAS#: 78-59-1			
82	110591	3.83	4.00	80-120	100	(T)
138	473	4.11	4.00	0- 55	0	(T)

27 Benzoic acid			CAS#: 65-85-0			
105	3791	4.11	4.12	80-120	100	()
122	1357	4.11	4.12	55-115	36	(Q)
77	8306	4.11	4.12	29- 89	219	(Q)

43 Dimethylphthalate			CAS#: 131-11-3			
163	230747	5.57	5.35	80-120	100	(T)
164	1267154	5.57	5.35	0- 40	549	(QT)

44 2,6-Dinitrotoluene			CAS#: 606-20-2			
165	165519	5.57	5.40	80-120	100	(T)
63	2751	5.57	5.40	49-109	2	(QT)

50 2,4-Dinitrotoluene			CAS#: 121-14-2			
165	165519	5.57	5.69	80-120	100	(T)
89	2717	5.57	5.69	48-108	2	(QT)
63	2751	5.57	5.69	21- 81	2	(QT)

52 4-Nitrophenol			CAS#: 100-02-7			
139	119	5.66	5.63	80-120	100	()
109	623	5.65	5.63	39- 99	522	(Q)
65	1034	5.63	5.63	60-120	867	(Q)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	178	6.12	5.98	80-120	100	(T)
105	1656	6.14	5.98	14- 74	926	(QT)
51	1225	6.12	5.98	40-100	685	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	354	5.98	5.97	80-120	100	()
108	1038	6.02	5.97	35- 95	293	(Q)
92	455	6.02	5.97	5- 65	128	(Q)

68 Phenanthrene				CAS#: 85-01-8		
178	83033	6.60	6.61	80-120	100	()
179	14382	6.60	6.61	0- 46	17	()
176	15900	6.60	6.61	0- 49	19	()

69 Anthracene				CAS#: 120-12-7		
178	14820	6.64	6.64	80-120	100	()
179	2866	6.64	6.64	0- 46	19	()
176	2587	6.64	6.64	0- 49	17	()

76 Fluoranthene				CAS#: 206-44-0		
202	116394	7.33	7.32	80-120	100	()
203	20231	7.33	7.32	0- 47	17	()
101	15330	7.33	7.32	0- 43	13	()

79 Pyrene				CAS#: 129-00-0		
202	101589	7.46	7.46	80-120	100	()
200	21757	7.46	7.46	0- 51	21	()
101	16175	7.46	7.46	0- 46	16	()

89 Benzo(a)anthracene				CAS#: 56-55-3		
228	47951	8.16	8.16	80-120	100	()
226	13032	8.16	8.16	0- 57	27	()
229	18583	8.16	8.16	0- 50	39	()

92 Chrysene				CAS#: 218-01-9		
228	54013	8.18	8.19	80-120	100	()
229	15120	8.18	8.19	0- 50	28	()
226	16242	8.18	8.19	0- 59	30	()

95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	74003	8.97	8.97	80-120	100	()
253	17876	8.97	8.97	0- 52	24	()
125	15061	8.97	8.96	0- 44	20	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	74003	8.97	8.99	80-120	100	()
253	18610	8.97	8.99	0- 52	25	()
125	15040	8.97	8.99	0- 48	20	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
97 Benzo(a)pyrene			CAS#: 50-32-8			
252	21117	9.28	9.28	80-120	100	()
253	5209	9.28	9.28	0- 52	25	()
125	4966	9.27	9.28	0- 48	24	()

99 Indeno(1,2,3-cd)pyrene			CAS#: 193-39-5			
276	12216	10.59	10.60	80-120	100	()
138	4026	10.59	10.60	14- 74	33	()

100 Dibenzo(a,h)anthracene			CAS#: 53-70-3			
278	3259	10.60	10.61	80-120	100	()
139	1121	10.60	10.60	0- 60	34	()

101 Benzo(ghi)perylene			CAS#: 191-24-2			
276	9744	10.99	10.99	80-120	100	()
138	3899	10.99	10.99	9- 69	40	()

Q qualifier indicates ion failed ratio requirement						

Data File: /chem/MSD3.i/s031310.b/s3c1316.d
 Report Date: 14-Mar-2010 16:04

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1316.d
 Lab Smp Id: 248197002 Client Smp ID: RE36-10-7403
 Inj Date : 13-MAR-2010 15:58
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |248197002|960459|4|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 16
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: 10-2121.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	4.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.13000	weight of sample
M	14.08920	% moisture

Cpnd Variable

Local Compound Variable

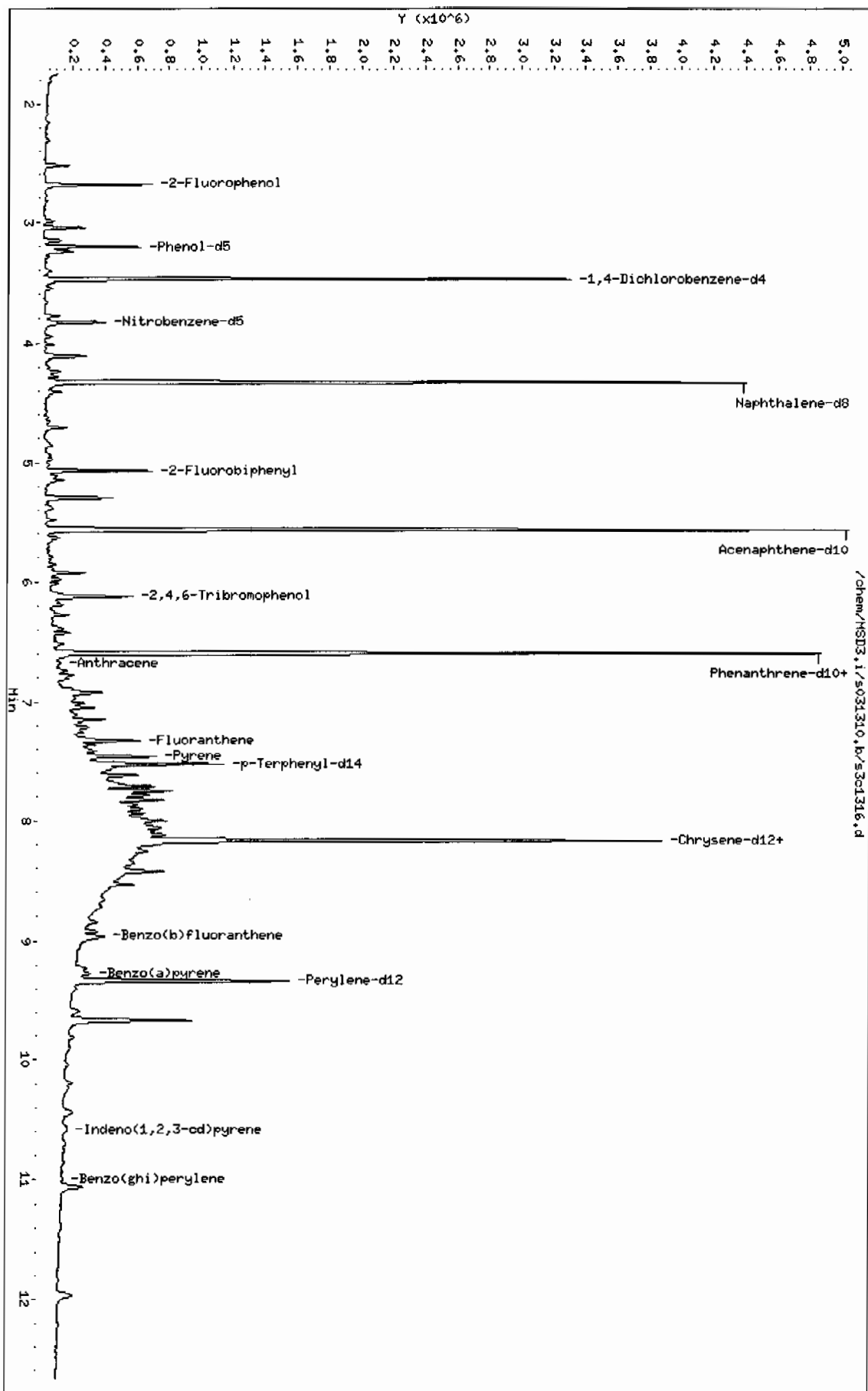
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.171	5641801	40.000
* 98 Perylene-d12	9.332	1989347	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
7.829	629473	4.46292011	690	0		0	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
8.000	1150940	8.16009174	1260	0		0	91
Unknown					CAS #:		
8.433	1479400	10.4888496	1620	0		0	91
Unknown					CAS #:		
8.535	739284	5.24147410	810	0		0	91
Unknown					CAS #:		
9.664	1395921	28.0679131	4340	0		0	98
.beta.-Sitosterol					CAS #: 83-46-5		
11.060	322640	6.48735716	1000	91	NIST05.L	174400	98
Stigmast-4-en-3-one					CAS #: 1058-61-3		
11.963	257207	5.17168374	799	93	NIST05.L	173936	98

Data File: /chem/MSD3.i/s031310.b/s3c1316.d
 Date: 13-MAR-2010 15:58
 Client ID: RE36-10-7403
 Sample Info: 12481970021960459141SVHF11LHNL
 Volume Injected (uL): 0.5
 Column phase: J&M DB-SHS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960459141SVMF111LANL

Volume Injected (uL): 0.5

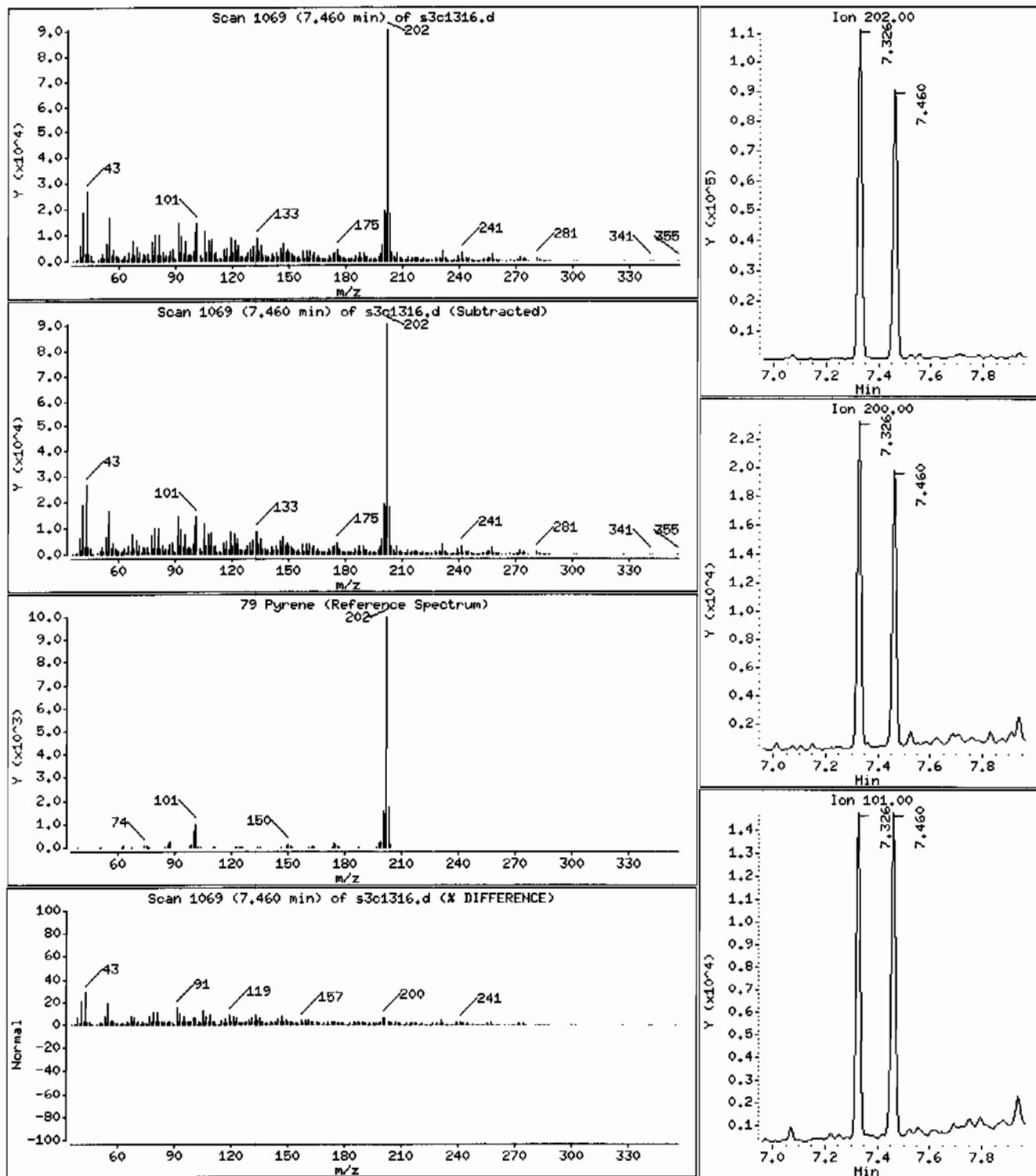
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 412 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.i

Sample Info: 12481970021960459141SVMF11ILANL

Volume Injected (uL): 0.5

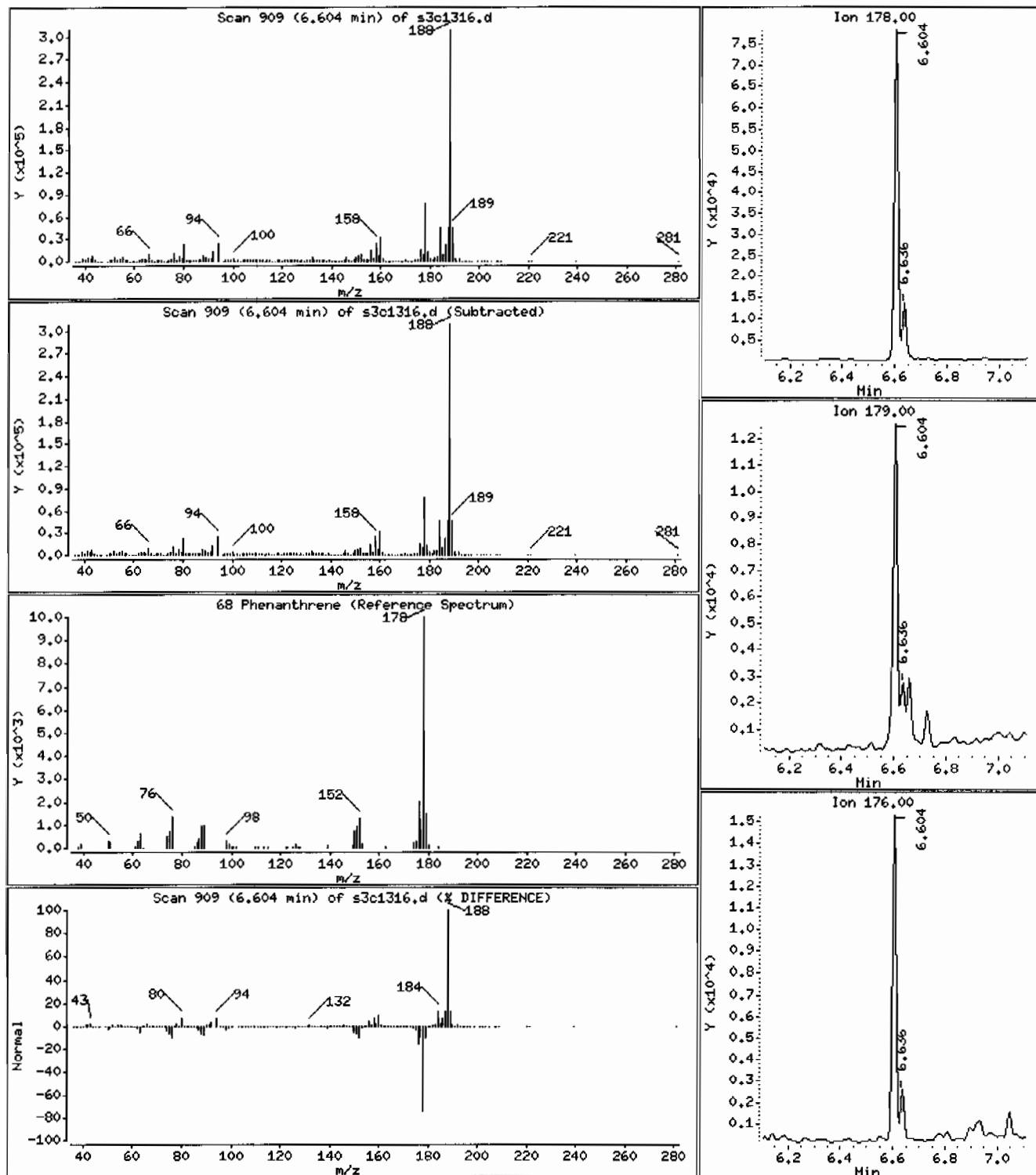
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 265 ug/Kg



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.1

Sample Info: 1248197002196045914ISVMF111LANL

Volume Injected (uL): 0.5

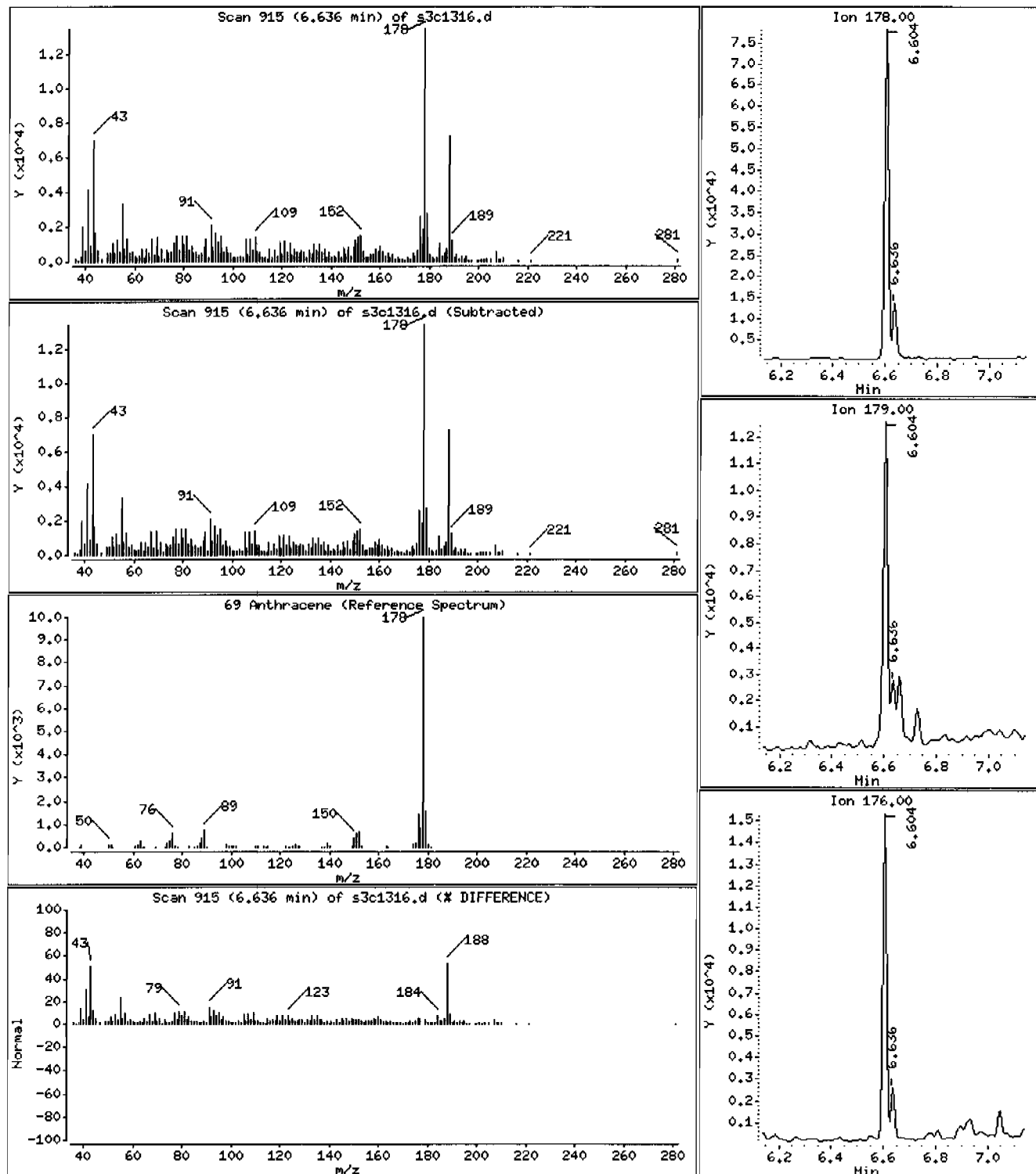
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 48.4 ug/Kg



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.1

Sample Info: 12481970021960459141SVMF11ILANL

Volume Injected (uL): 0.5

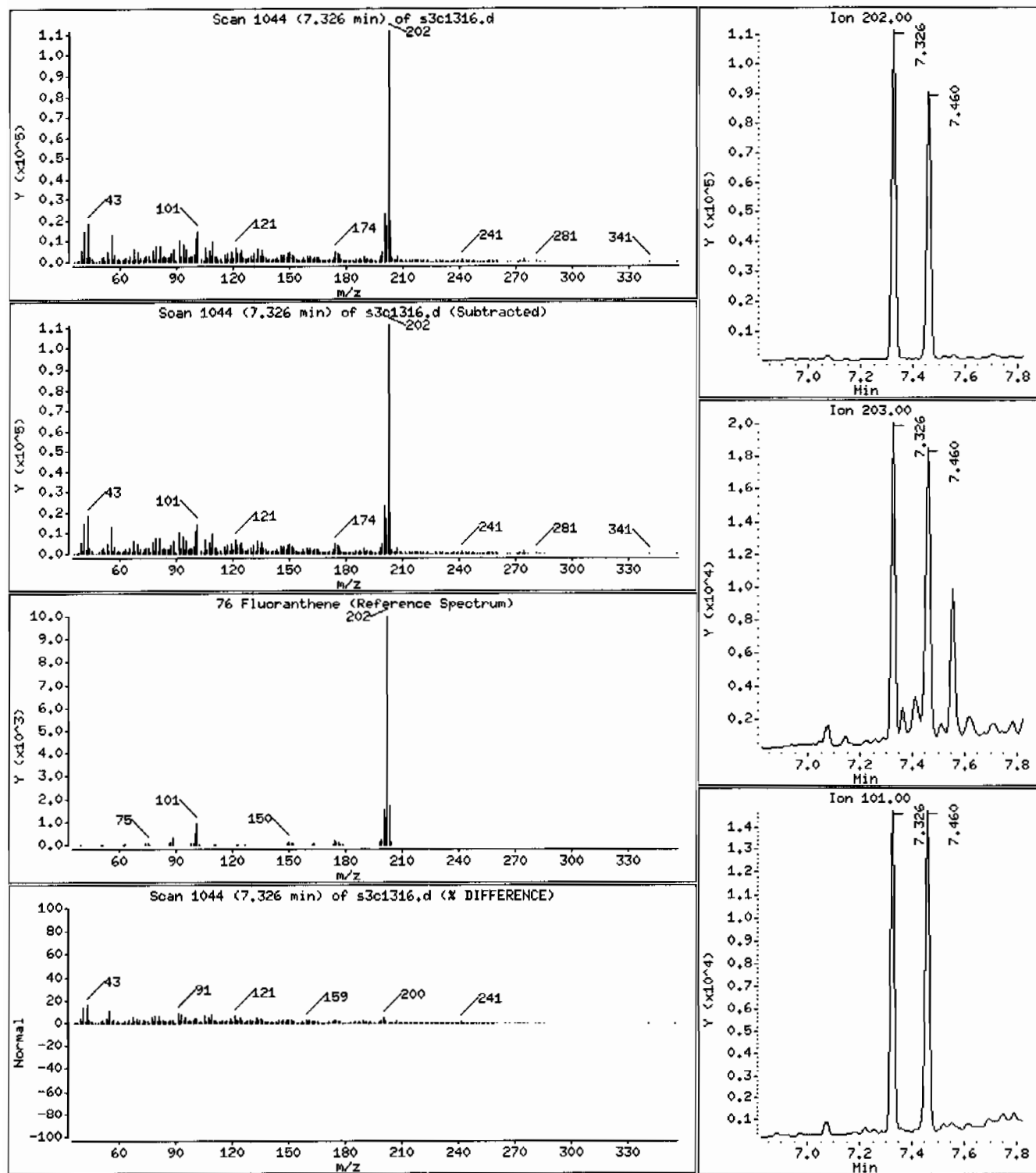
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 411 ug/Kg



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.i

Sample Info: 12481970021960459141SVHF11ILANL

Volume Injected (uL): 0.5

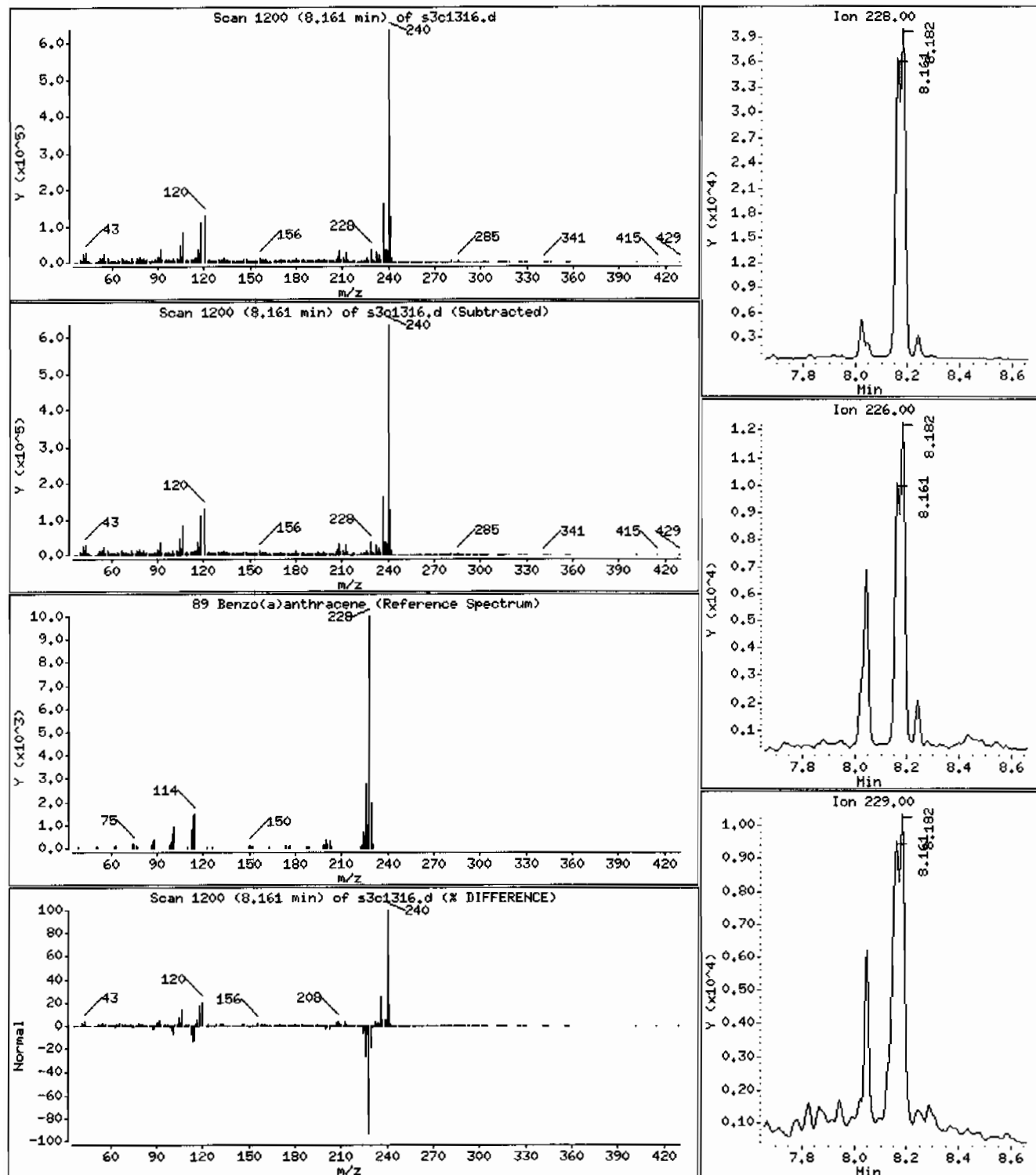
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 242 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 1248197002196045914ISVMF11ILANL

Volume Injected (uL): 0.5

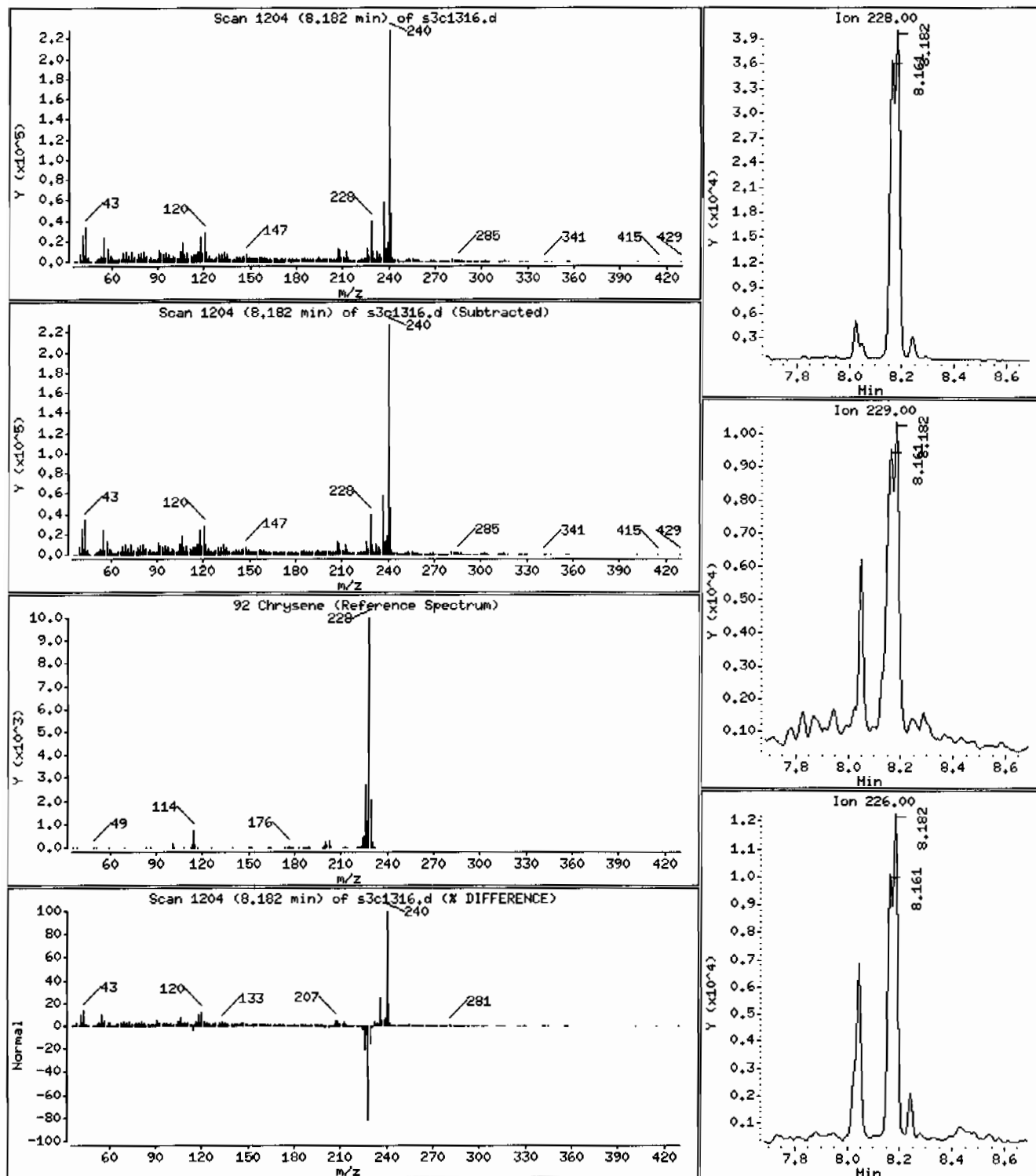
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 267 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.1

Sample Info: 12481970021960459141SVHF11ILANL

Volume Injected (uL): 0.5

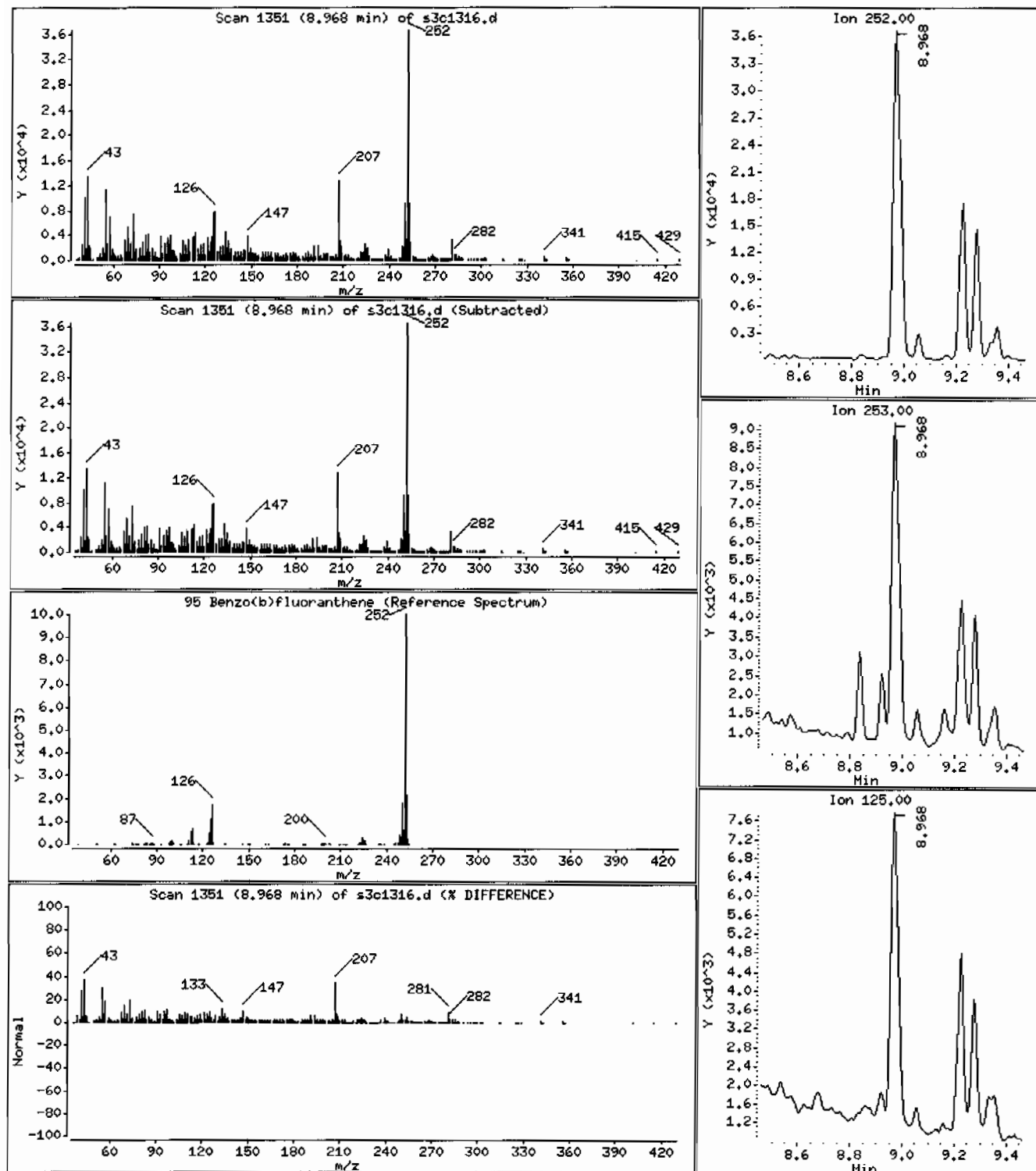
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 705 ug/Kg



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960489141SVHF11ILANL

Volume Injected (uL): 0.5

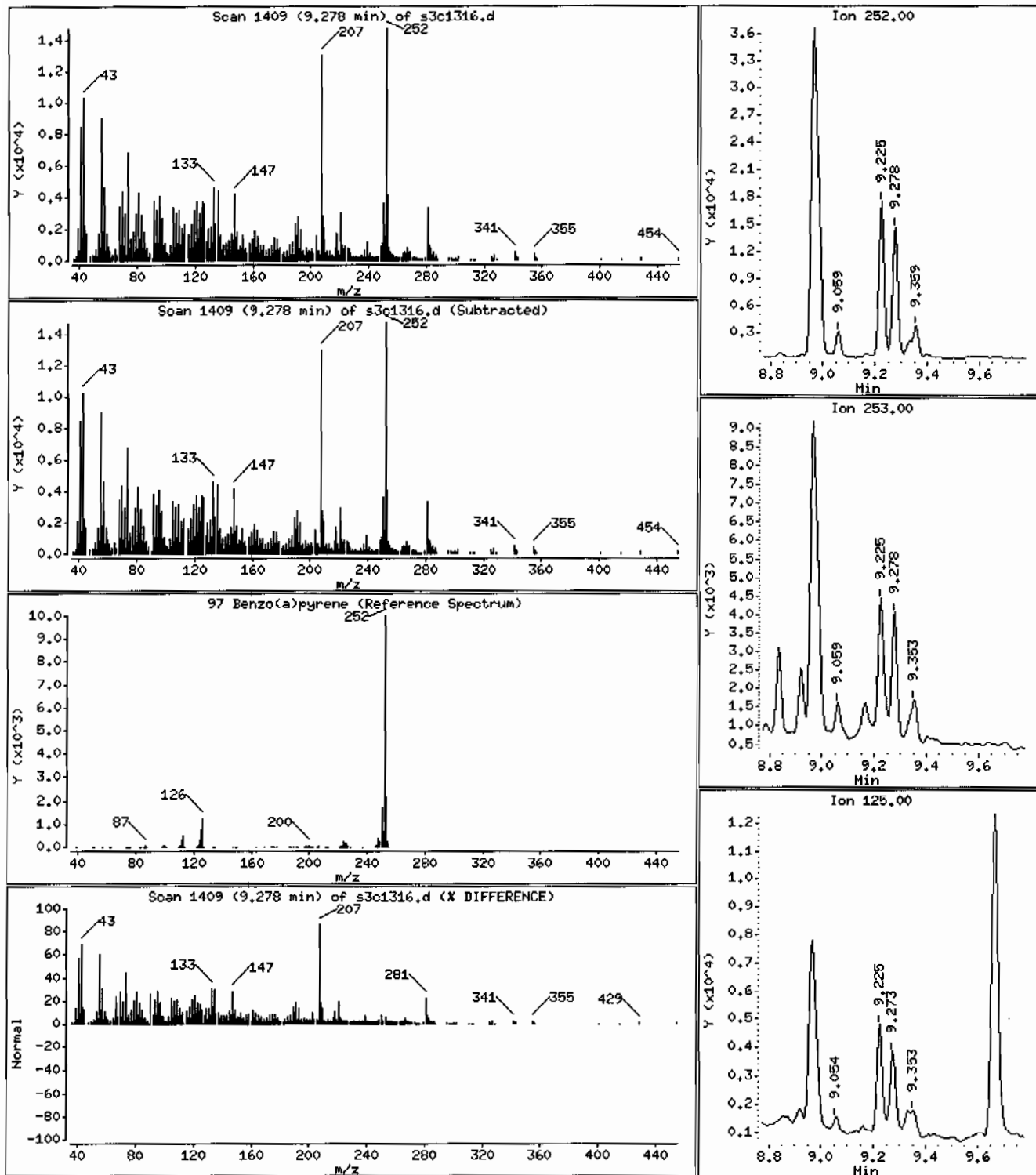
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 234 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.i

Sample Info: 12481970021960459141SVHF11ILANL

Volume Injected (uL): 0.5

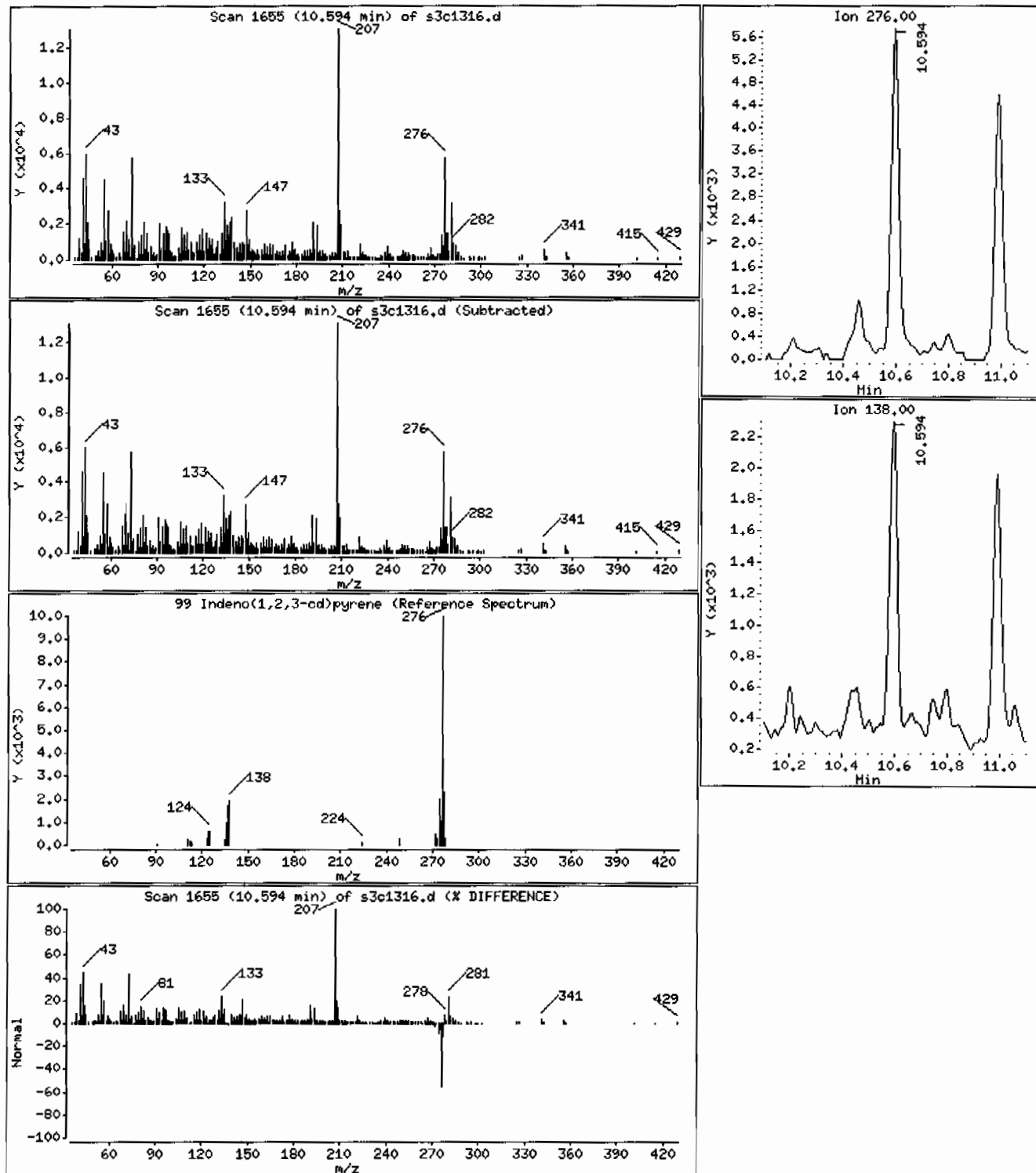
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 157 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.1

Sample Info: I248197002I960459I4ISVMF11ILANL

Volume Injected (uL): 0.5

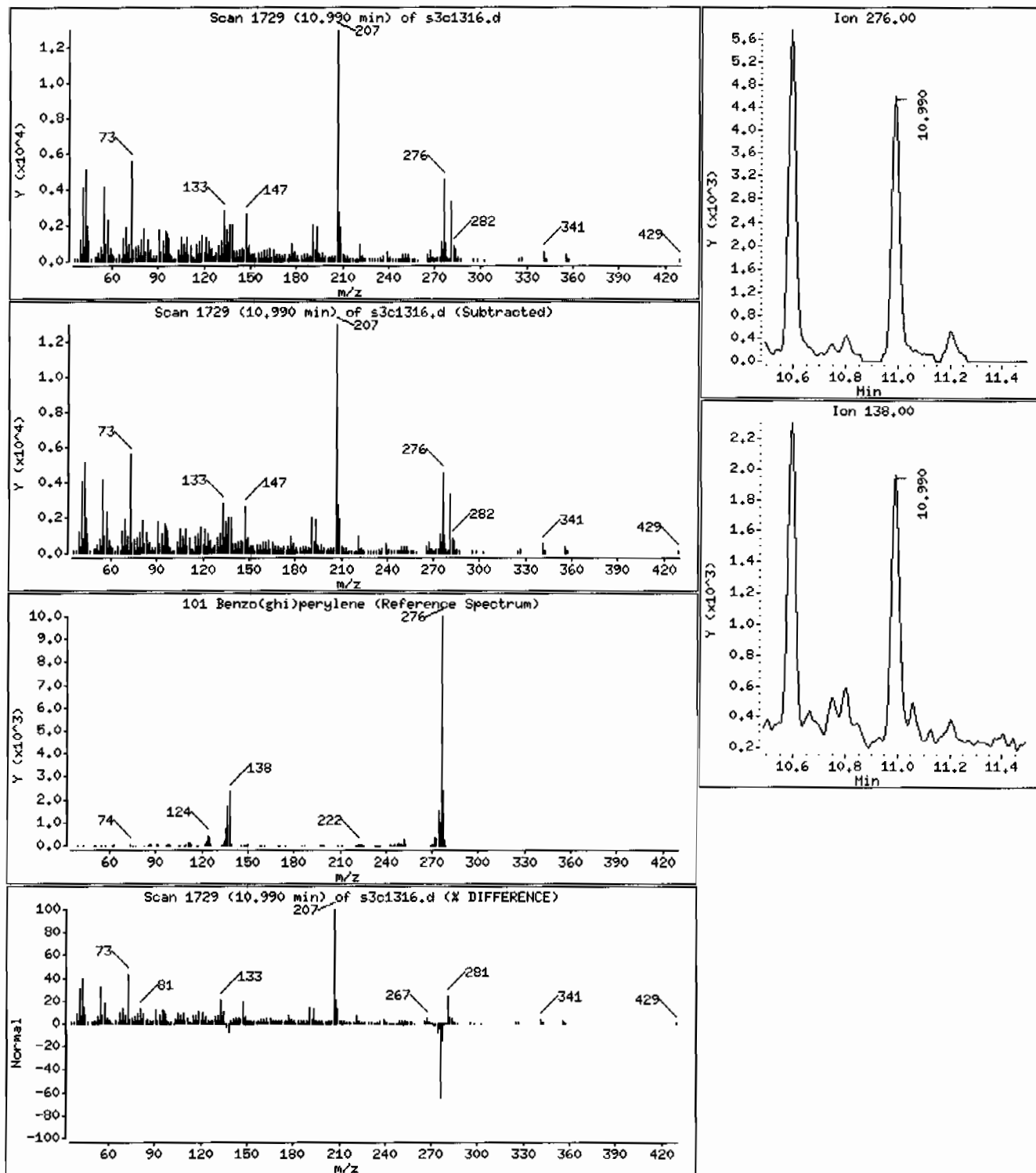
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 152 ug/Kg



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960459141SVMF111LANL

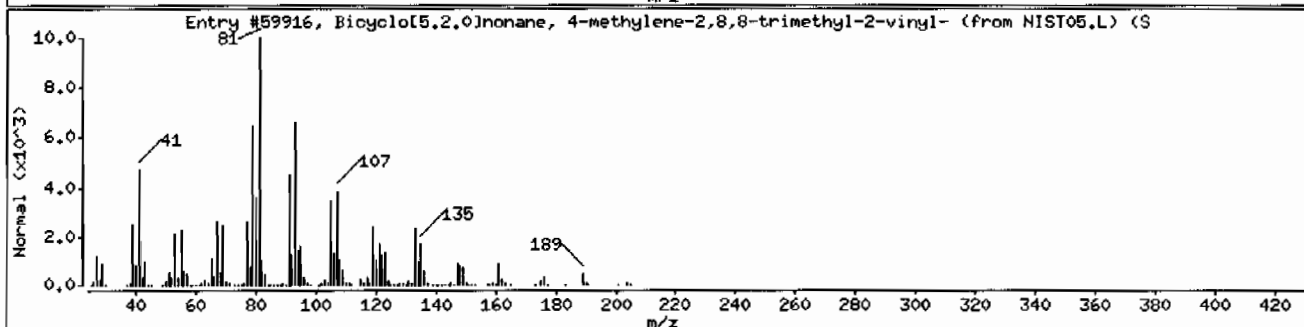
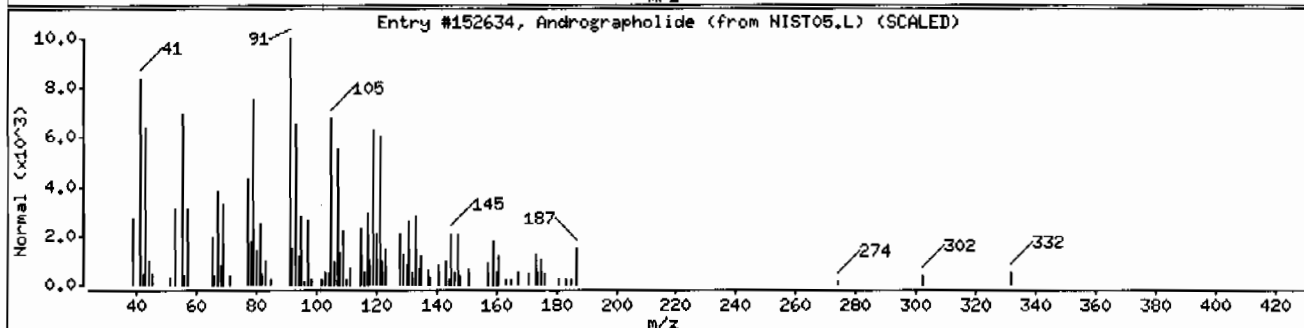
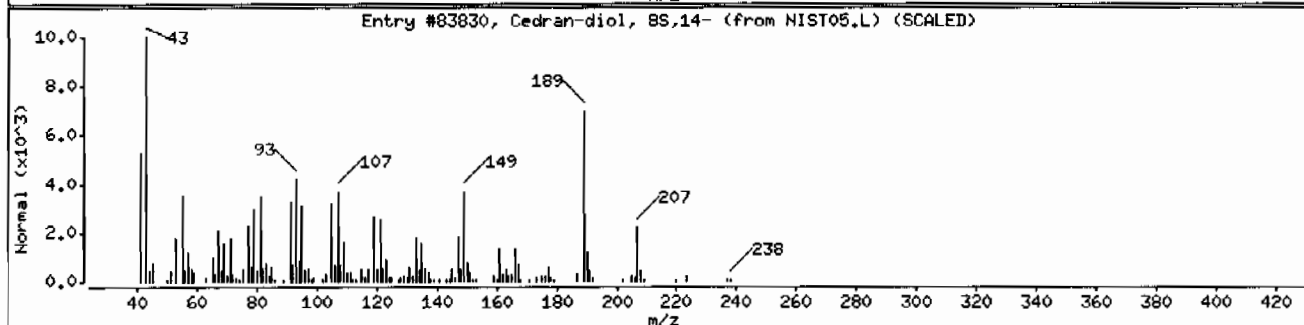
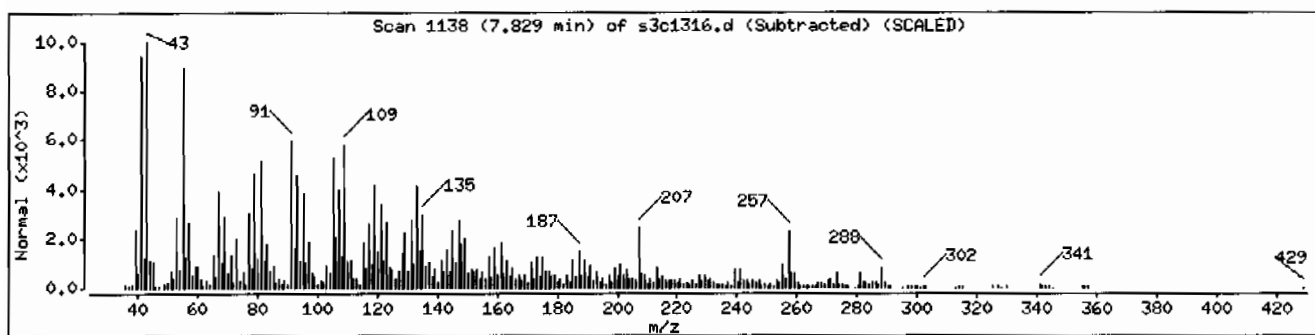
Volume Injected (uL): 0.5

Operator: JLD1

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	45	C ₁₅ H ₂₆ O ₂	238
Andrographolide	5508-58-7	NIST05.L	152634	42	C ₂₀ H ₃₀ O ₅	350
Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-	1000159-38-2	NIST05.L	59916	38	C ₁₅ H ₂₄	204



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.i

Sample Info: 12481970021960459141SVMF111LANL

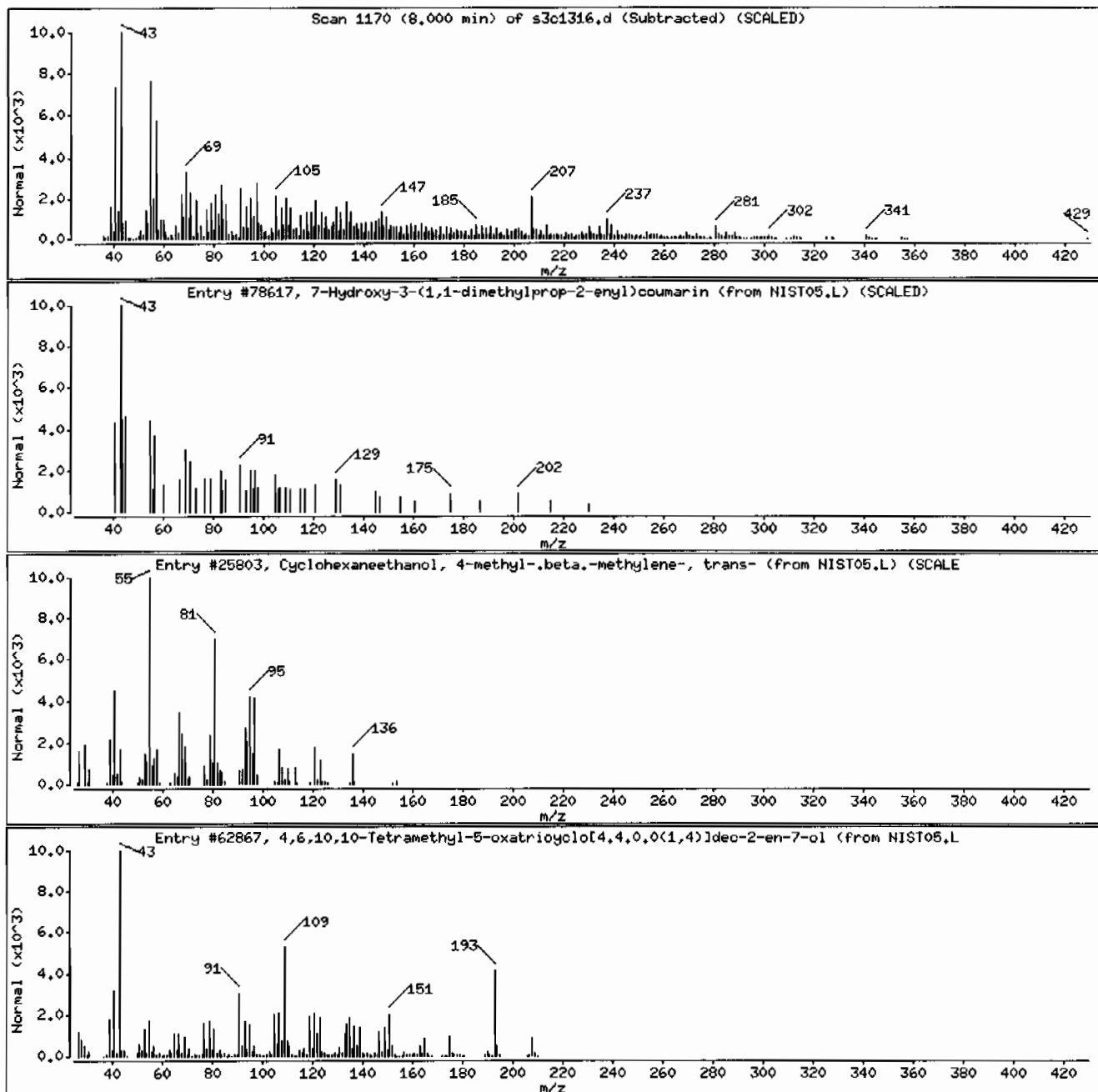
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Hydroxy-3-(1,1-dimethylprop-2-enyl)cou	56881-08-4	NIST05.L	78617	56	C14H14O3	230
Cyclohexaneethanol, 4-methyl-.beta.-meth	15714-12-2	NIST05.L	25803	35	C10H18O	154
4,6,10,10-Tetramethyl-5-oxatricyclo[4.4.	97371-50-1	NIST05.L	62867	25	C13H20O2	208



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960459141SVHF11ILANL

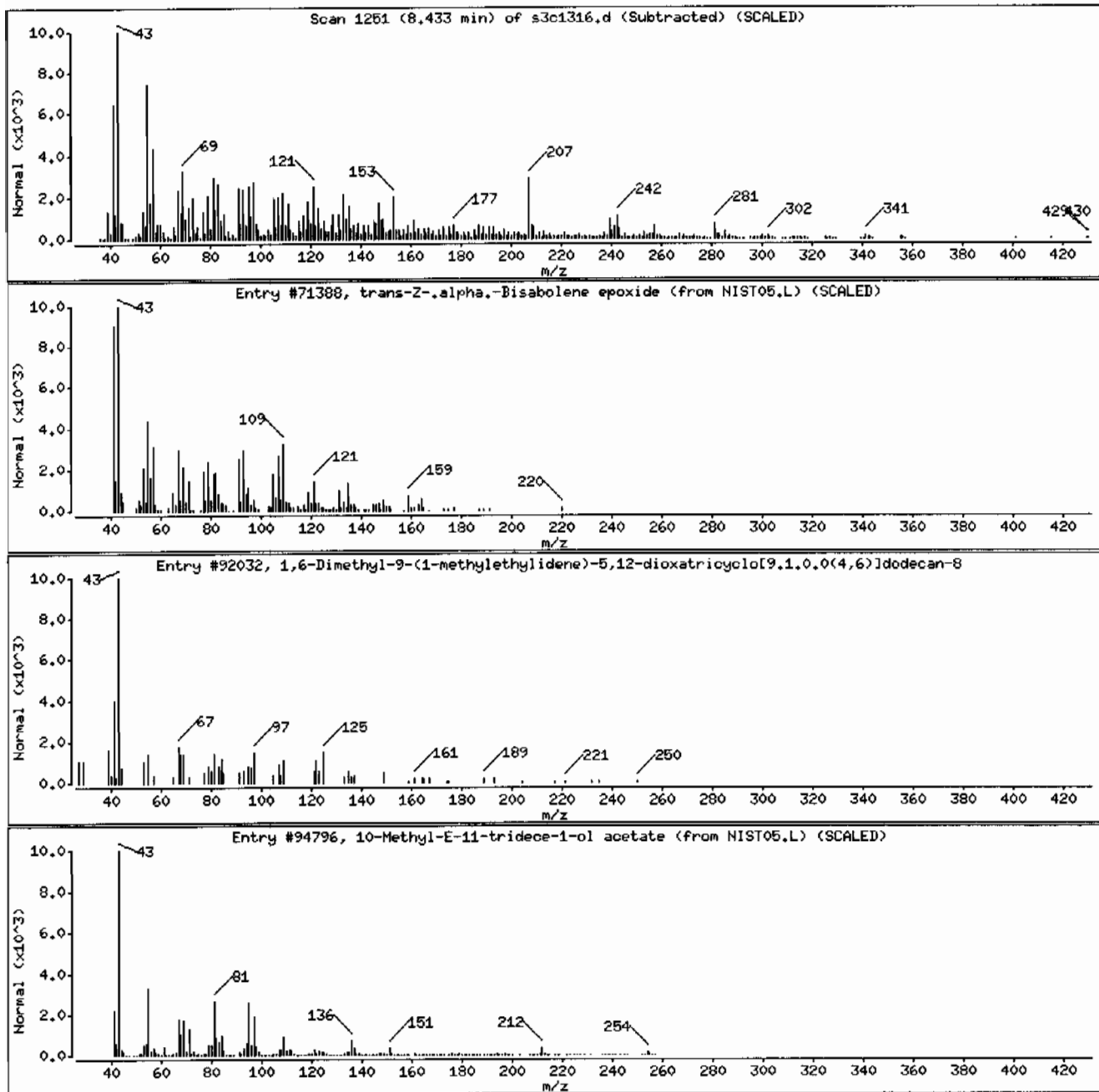
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
trans-Z,.alpha.-Bisabolene epoxide	1000131-71-1	NIST05.L	71388	44	C15H24O	220
1,6-Dimethyl-9-(1-methylethylidene)-5,12	1000072-83-2	NIST05.L	92032	27	C15H22O3	250
10-Methyl-E-11-tridece-1-ol acetate	1000130-97-3	NIST05.L	94796	25	C16H30O2	254



Date: 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: HSD3.i

Sample Info: 12481970021960459141SVHF11ILANL

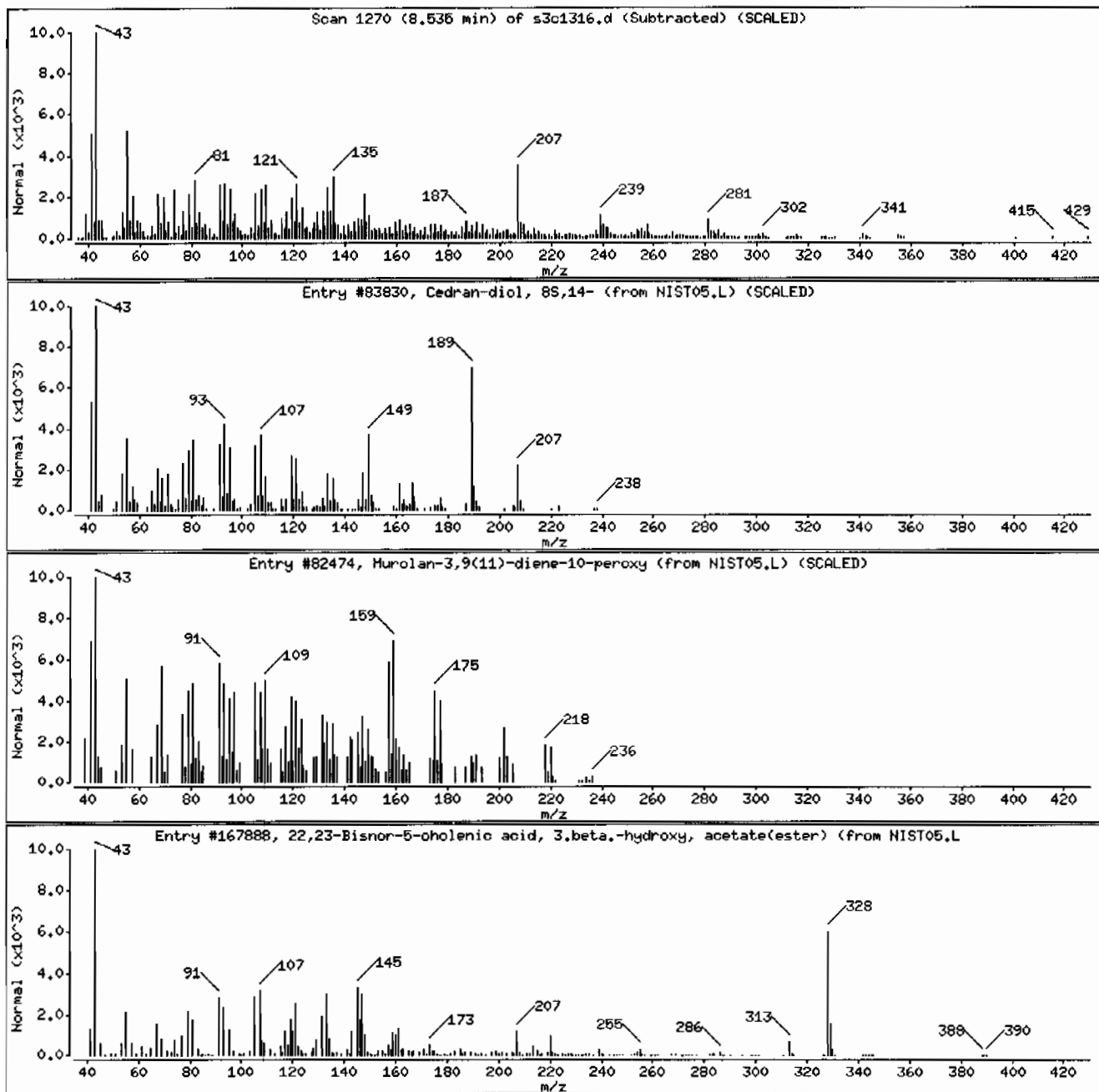
Volume Injected (uL): 0.5

Operator: JLD1

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	46	C15H26O2	238
Murolan-3,9(11)-diene-10-peroxy	1000140-33-3	NIST05.L	82474	35	C15H24O2	236
22,23-Bisnor-5-choleonic acid, 3,β,α-hy	1000127-30-8	NIST05.L	167888	27	C24H36O4	388



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: I248197002I960459I4ISVMF11ILANL

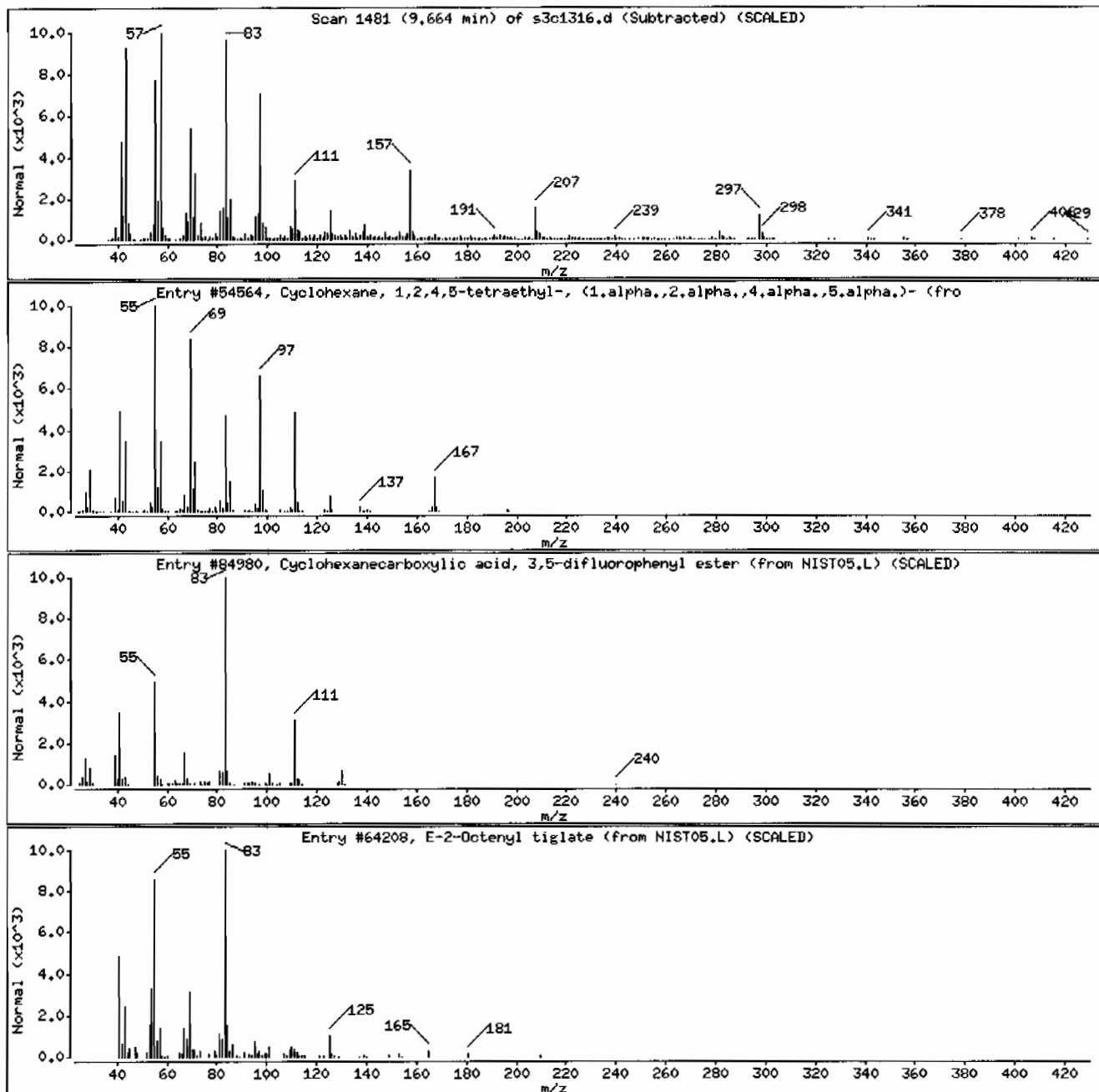
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,2,4,5-tetraethyl-, (1.alpha.	61142-24-3	NIST05.L	54564	43	C14H28	196
Cyclohexanecarboxylic acid, 3,5-difluoro	1000293-69-2	NIST05.L	84980	41	C13H14F2O2	240
E-2-Octenyl tiglate	84271-97-6	NIST05.L	64208	38	C13H22O2	210



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960459141SVHF11ILANL

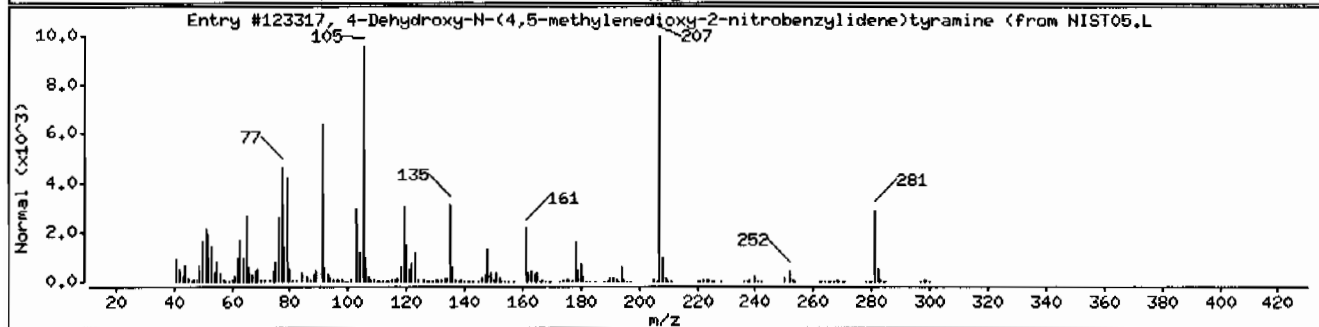
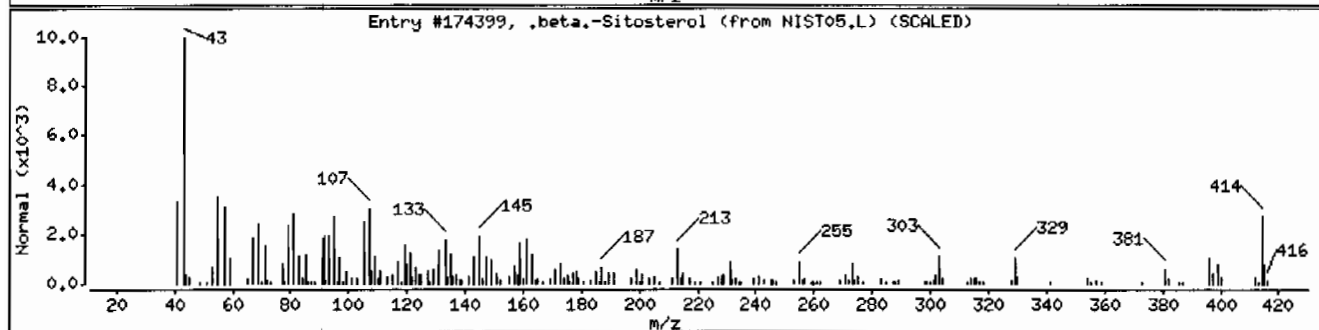
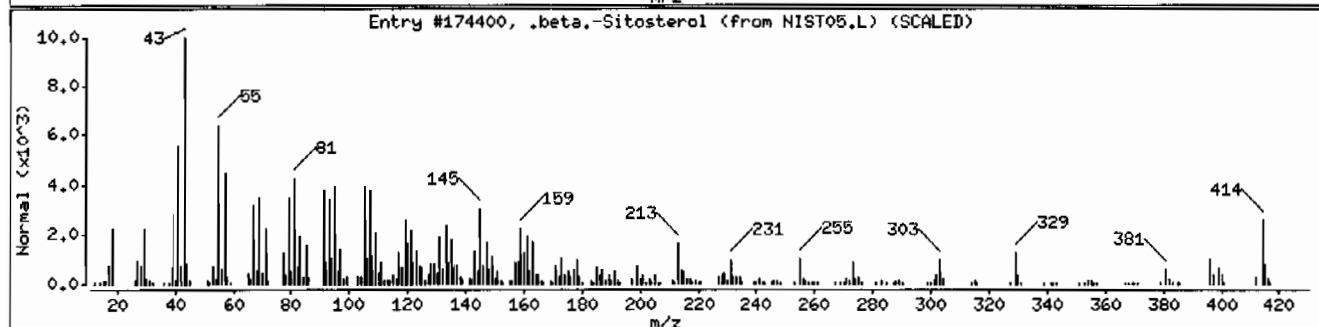
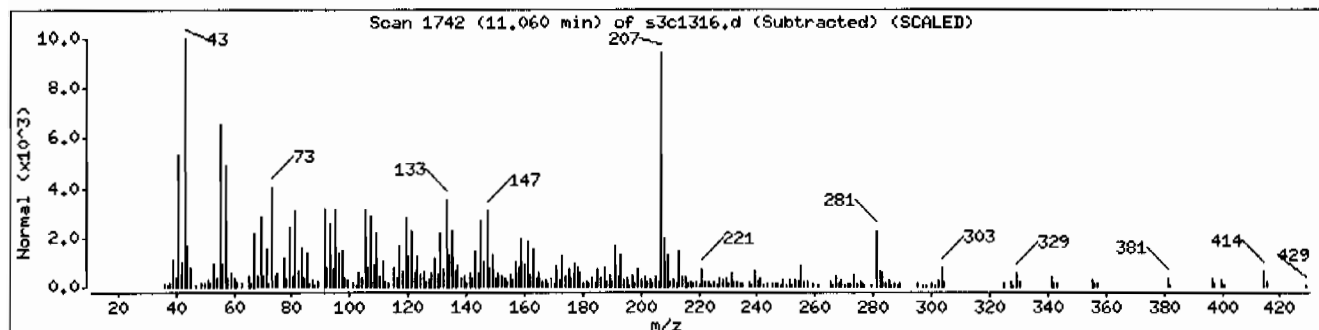
Volume Injected (uL): 0.5

Operator: JLD1

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	91	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	56	C ₂₉ H ₅₀ O	414
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	45	C ₁₆ H ₁₄ N ₂ O ₄	298



Date : 13-MAR-2010 15:58

Client ID: RE36-10-7403

Instrument: MSD3.i

Sample Info: 12481970021960459141SVMF111LANL

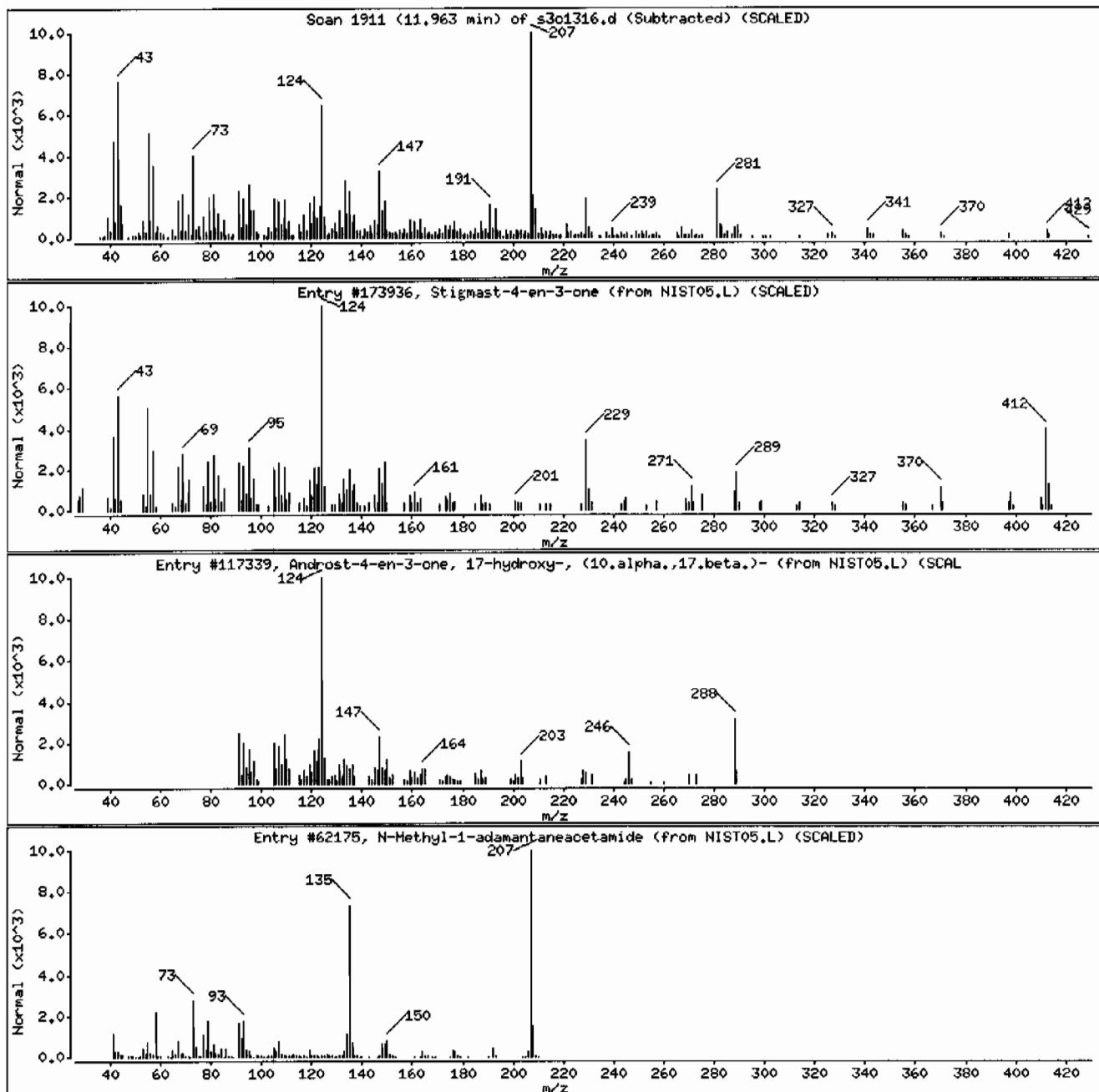
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	93	C ₂₉ H ₄₈ O	412
Androst-4-en-3-one, 17-hydroxy-, (10.alpha.)	604-39-7	NIST05.L	117339	41	C ₁₉ H ₂₈ O ₂	288
N-Methyl-1-adamantanecetamide	31897-93-5	NIST05.L	62175	38	C ₁₃ H ₂₁ NO	207



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:36	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1318.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	753	ug/kg	151	753
108-95-2	Phenol	U	753	ug/kg	151	753
95-57-8	2-Chlorophenol	U	753	ug/kg	151	753
106-46-7	1,4-Dichlorobenzene	U	753	ug/kg	151	753
621-64-7	N-Nitrosodipropylamine	U	753	ug/kg	151	753
59-50-7	4-Chloro-3-methylphenol	U	753	ug/kg	151	753
83-32-9	Acenaphthene	U	75.3	ug/kg	24.8	75.3
121-14-2	2,4-Dinitrotoluene	U	753	ug/kg	75.3	753
100-02-7	4-Nitrophenol	U	753	ug/kg	248	753
87-86-5	Pentachlorophenol	U	753	ug/kg	188	753
129-00-0	Pyrene		379	ug/kg	22.6	75.3
110-86-1	Pyridine	U	753	ug/kg	151	753
62-53-3	Aniline	U	753	ug/kg	226	753
111-44-4	bis(2-Chloroethyl) ether	U	753	ug/kg	151	753
541-73-1	1,3-Dichlorobenzene	U	753	ug/kg	151	753
100-51-6	Benzyl alcohol	U	753	ug/kg	226	753
95-50-1	1,2-Dichlorobenzene	U	753	ug/kg	151	753
108-60-1	bis(2-Chloroisopropyl)ether	U	753	ug/kg	151	753
95-48-7	o-Cresol	U	753	ug/kg	151	753
65794-96-9	m,p-Cresols	U	753	ug/kg	226	753
67-72-1	Hexachloroethane	U	753	ug/kg	151	753
98-95-3	Nitrobenzene	U	753	ug/kg	151	753
78-59-1	Isophorone	U	753	ug/kg	151	753
88-75-5	2-Nitrophenol	U	753	ug/kg	151	753
105-67-9	2,4-Dimethylphenol	U	753	ug/kg	263	753
111-91-1	bis(2-Chloroethoxy)methane	U	753	ug/kg	151	753
120-83-2	2,4-Dichlorophenol	U	753	ug/kg	151	753
65-85-0	Benzoic acid	U	1510	ug/kg	376	1510
91-20-3	Naphthalene	U	75.3	ug/kg	22.6	75.3
106-47-8	4-Chloroaniline	U	753	ug/kg	151	753
87-68-3	Hexachlorobutadiene	U	753	ug/kg	151	753
91-57-6	2-Methylnaphthalene	U	75.3	ug/kg	15.1	75.3
77-47-4	Hexachlorocyclopentadiene	U	753	ug/kg	151	753
88-06-2	2,4,6-Trichlorophenol	U	753	ug/kg	151	753
95-95-4	2,4,5-Trichlorophenol	U	753	ug/kg	151	753
91-58-7	2-Chloronaphthalene	U	75.3	ug/kg	24.8	75.3
88-74-4	2-Nitroaniline	U	753	ug/kg	151	753
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	753	ug/kg	151	753

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:36	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1318.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	753	ug/kg	151	753
606-20-2	2,6-Dinitrotoluene	U	753	ug/kg	75.3	753
208-96-8	Acenaphthylene	U	75.3	ug/kg	22.6	75.3
51-28-5	2,4-Dinitrophenol	U	1510	ug/kg	286	1510
132-64-9	Dibenzofuran	U	753	ug/kg	151	753
84-66-2	Diethylphthalate	U	753	ug/kg	151	753
86-73-7	Fluorene	U	75.3	ug/kg	22.6	75.3
7005-72-3	4-Chlorophenylphenylether	U	753	ug/kg	151	753
534-52-1	2-Methyl-4,6-dinitrophenol	U	753	ug/kg	151	753
100-01-6	4-Nitroaniline	U	753	ug/kg	226	753
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	753	ug/kg	151	753
122-66-7	Azobenzene	U	753	ug/kg	151	753
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	753	ug/kg	151	753
118-74-1	Hexachlorobenzene	U	753	ug/kg	151	753
85-01-8	Phenanthrene		252	ug/kg	22.6	75.3
120-12-7	Anthracene	J	42.0	ug/kg	15.1	75.3
84-74-2	Di-n-butylphthalate	U	753	ug/kg	151	753
206-44-0	Fluoranthene		362	ug/kg	22.6	75.3
85-68-7	Butylbenzylphthalate	U	753	ug/kg	151	753
56-55-3	Benzo(a)anthracene		190	ug/kg	22.6	75.3
91-94-1	3,3'-Dichlorobenzidine	U	753	ug/kg	226	753
218-01-9	Chrysene		208	ug/kg	22.6	75.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	753	ug/kg	151	753
117-84-0	Di-n-octylphthalate	U	753	ug/kg	151	753
205-99-2	Benzo(b)fluoranthene		414	ug/kg	22.6	75.3
207-08-9	Benzo(k)fluoranthene	U	75.3	ug/kg	22.6	75.3
50-32-8	Benzo(a)pyrene		194	ug/kg	22.6	75.3
193-39-5	Indeno(1,2,3-cd)pyrene		117	ug/kg	22.6	75.3
53-70-3	Dibenzo(a,h)anthracene	U	75.3	ug/kg	22.6	75.3
191-24-2	Benzo(ghi)perylene		123	ug/kg	22.6	75.3
120-82-1	1,2,4-Trichlorobenzene	U	753	ug/kg	151	753

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.52	342	ug/kg		JA
	Unknown	6.93	345	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197004	Date Received: 02/26/2010 08:45	%Moisture: 11.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7404	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 16:36	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1318.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	7.83	316	ug/kg		J
	Unknown	8	413	ug/kg		J
	Unknown	8.43	1870	ug/kg		J
	Unknown	8.85	1500	ug/kg		J
112-95-8	Eicosane	8.93	822	ug/kg	93	NJ
	Unknown	9.66	2670	ug/kg		J
	Unknown	10.44	1030	ug/kg		J
	Unknown	10.71	622	ug/kg		J
83-46-5	.beta.-Sitosterol	11.07	939	ug/kg	93	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	663	ug/kg	84	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1318.d
Report Date: 14-Mar-2010 16:10

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1318.d
Lab Smp Id: 248197004 Client Smp ID: RE36-10-7404
Inj Date : 13-MAR-2010 16:36
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197004|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 18
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	11.94220	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473 (1.000)	543761	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329 (1.000)	2095432	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570 (1.000)	1140024	40.0000	
* 67 Phenanthrene-d10	188	6.594	6.592 (1.000)	1926795	40.0000	
* 91 Chrysene-d12	240	8.171	8.169 (1.000)	1087137	40.0000	
* 98 Perylene-d12	264	9.332	9.330 (1.000)	607802	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682 (0.774)	441122	36.0985	2720
\$ 5 Phenol-d5	99	3.208	3.206 (0.923)	506659	35.2913	2660
\$ 20 Nitrobenzene-d5	82	3.834	3.837 (0.886)	215826	18.0927	1360
\$ 39 2-Fluorobiphenyl	172	5.069	5.073 (0.911)	510333	17.5948	1320
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126 (1.100)	95220	36.4282	2740
\$ 81 p-Terphenyl-d14	244	7.524	7.522 (0.921)	404202	23.9867	1800

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.465	7.463	(0.914)	158669	5.04047	379
68 Phenanthrene	178	6.604	6.608	(1.002)	146322	3.35245	252
69 Anthracene	178	6.636	6.640	(1.006)	23857	0.55827	42.0(a)
76 Fluoranthene	202	7.326	7.324	(1.111)	190151	4.80976	362
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	63633	2.52039	190
92 Chrysene	228	8.182	8.185	(1.001)	71490	2.76935	208
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	84782	5.49550	414
97 Benzo(a)pyrene	252	9.279	9.277	(0.994)	34085	2.57185	194
99 Indeno(1,2,3-cd)pyrene	276	10.594	10.603	(1.135)	17739	1.55232	117
101 Benzo(ghi)perylene	276	10.990	10.993	(1.178)	15300	1.62978	123

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1318.d

Report Date: 03/14/2010 14:32

Lab. ID: 248197004

SampleType: SAMPLE

Injection Date: 13-MAR-2010 16:36

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197004|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	26670	3.21	3.26	80-120	100	()
93	13888	3.25	3.26	200-260	52	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	31852	3.83	3.72	80-120	100	(T)
42	27009	3.83	3.72	76-136	85	(T)

22	Isophorone	CAS#: 78-59-1				
82	222702	3.83	4.00	80-120	100	(T)
138	298	4.11	4.00	0- 55	0	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	2498	4.11	4.12	80-120	100	()
122	577	4.11	4.12	55-115	23	(Q)
77	4980	4.11	4.12	29- 89	199	(Q)

43	Dimethylphthalate	CAS#: 131-11-3				
163	203324	5.57	5.35	80-120	100	(T)
164	1139261	5.57	5.35	0- 40	560	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	148710	5.57	5.40	80-120	100	(T)
63	2715	5.57	5.40	49-109	2	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	148710	5.57	5.69	80-120	100	(T)
89	3012	5.57	5.69	48-108	2	(QT)
63	2715	5.57	5.69	21- 81	2	(QT)
<hr/>						
52 4-Nitrophenol		CAS#: 100-02-7				
139	150	5.65	5.63	80-120	100	()
109	1044	5.65	5.63	39- 99	692	(Q)
65	953	5.64	5.63	60-120	632	(Q)
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	508	6.12	5.98	80-120	100	(T)
105	1795	6.12	5.98	14- 74	353	(QT)
51	1338	6.12	5.98	40-100	263	(QT)
<hr/>						
56 p-Nitroaniline		CAS#: 100-01-6				
138	280	5.92	5.97	80-120	100	()
108	567	5.92	5.97	35- 95	202	(Q)
92	482	5.92	5.97	5- 65	172	(Q)
<hr/>						
68 Phenanthrene		CAS#: 85-01-8				
178	146322	6.60	6.61	80-120	100	()
179	25211	6.60	6.61	0- 46	17	()
176	27683	6.60	6.61	0- 49	19	()
<hr/>						
69 Anthracene		CAS#: 120-12-7				
178	23857	6.64	6.64	80-120	100	()
179	4420	6.64	6.64	0- 46	19	()
176	4089	6.64	6.64	0- 49	17	()
<hr/>						
76 Fluoranthene		CAS#: 206-44-0				
202	190151	7.33	7.32	80-120	100	()
203	32702	7.33	7.32	0- 47	17	()
101	24945	7.33	7.32	0- 43	13	()
<hr/>						
79 Pyrene		CAS#: 129-00-0				
202	158669	7.47	7.46	80-120	100	()
200	33518	7.47	7.46	0- 51	21	()
101	25684	7.46	7.46	0- 46	16	()
<hr/>						
89 Benzo(a)anthracene		CAS#: 56-55-3				
228	63633	8.16	8.16	80-120	100	()
226	17636	8.16	8.16	0- 57	28	()
229	20653	8.16	8.16	0- 50	32	()
<hr/>						
92 Chrysene		CAS#: 218-01-9				
228	71490	8.18	8.19	80-120	100	()
229	17830	8.18	8.19	0- 50	25	()
226	21376	8.18	8.19	0- 59	30	()
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	84782	8.97	8.97	80-120	100	()
253	19442	8.97	8.97	0- 52	23	()
125	16684	8.97	8.96	0- 44	20	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	84782	8.97	8.99	80-120	100	()
253	19428	8.97	8.99	0- 52	23	()
125	16170	8.97	8.99	0- 48	19	()

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	34085	9.28	9.28	80-120	100	()
253	7697	9.28	9.28	0- 52	23	()
125	11483	9.28	9.28	0- 48	34	()

99 Indeno(1,2,3-cd)pyrene				CAS#: 193-39-5		
276	17739	10.59	10.60	80-120	100	()
138	6362	10.59	10.60	14- 74	36	()

100 Dibenzo(a,h)anthracene				CAS#: 53-70-3		
278	5270	10.59	10.61	80-120	100	()
139	1392	10.59	10.60	0- 60	26	()

101 Benzo(ghi)perylene				CAS#: 191-24-2		
276	15300	10.99	10.99	80-120	100	()
138	5405	10.99	10.99	9- 69	35	()

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD3.i/s031310.b/s3c1318.d
Report Date: 14-Mar-2010 16:10

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1318.d
Lab Smp Id: 248197004 Client Smp ID: RE36-10-7404
Inj Date : 13-MAR-2010 16:36
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197004|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 18
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	11.94220	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.475	3327626	40.000
* 67 Phenanthrene-d10	6.594	5343264	40.000
* 91 Chrysene-d12	8.171	3912994	40.000
* 98 Perylene-d12	9.332	2552860	40.000

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

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
2.523	378135	4.54539719	342	0		0	10
Unknown				CAS #:			
6.931	611755	4.57963652	345	0		0	67
Unknown				CAS #:			
7.829	411130	4.20271219	316	0		0	91
Unknown				CAS #:			
8.000	537177	5.49121097	413	0		0	91
Unknown				CAS #:			
8.434	2434769	24.8890571	1870	0		0	91
Unknown				CAS #:			
8.851	1271364	19.9206125	1500	0		0	98
Eicosane				CAS #: 112-95-8			
8.926	697103	10.9226900	822	93	NIST05.L	113492	98
Unknown				CAS #:			
9.664	2265548	35.4981896	2670	0		0	98
Unknown				CAS #:			
10.439	870786	13.6440774	1030	0		0	98
Unknown				CAS #:			
10.707	527398	8.26363356	622	0		0	98
.beta.-Sitosterol				CAS #: 83-46-5			
11.065	796193	12.4753150	939	93	NIST05.L	174399	98
Stigmast-4-en-3-one				CAS #: 1058-61-3			
11.974	561770	8.80221095	663	84	NIST05.L	173936	98

Data File: /chem/MSD3.i/s031310.b/s301318.d

Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Sample Info: 12481970041960459121SYMF11LPLNL

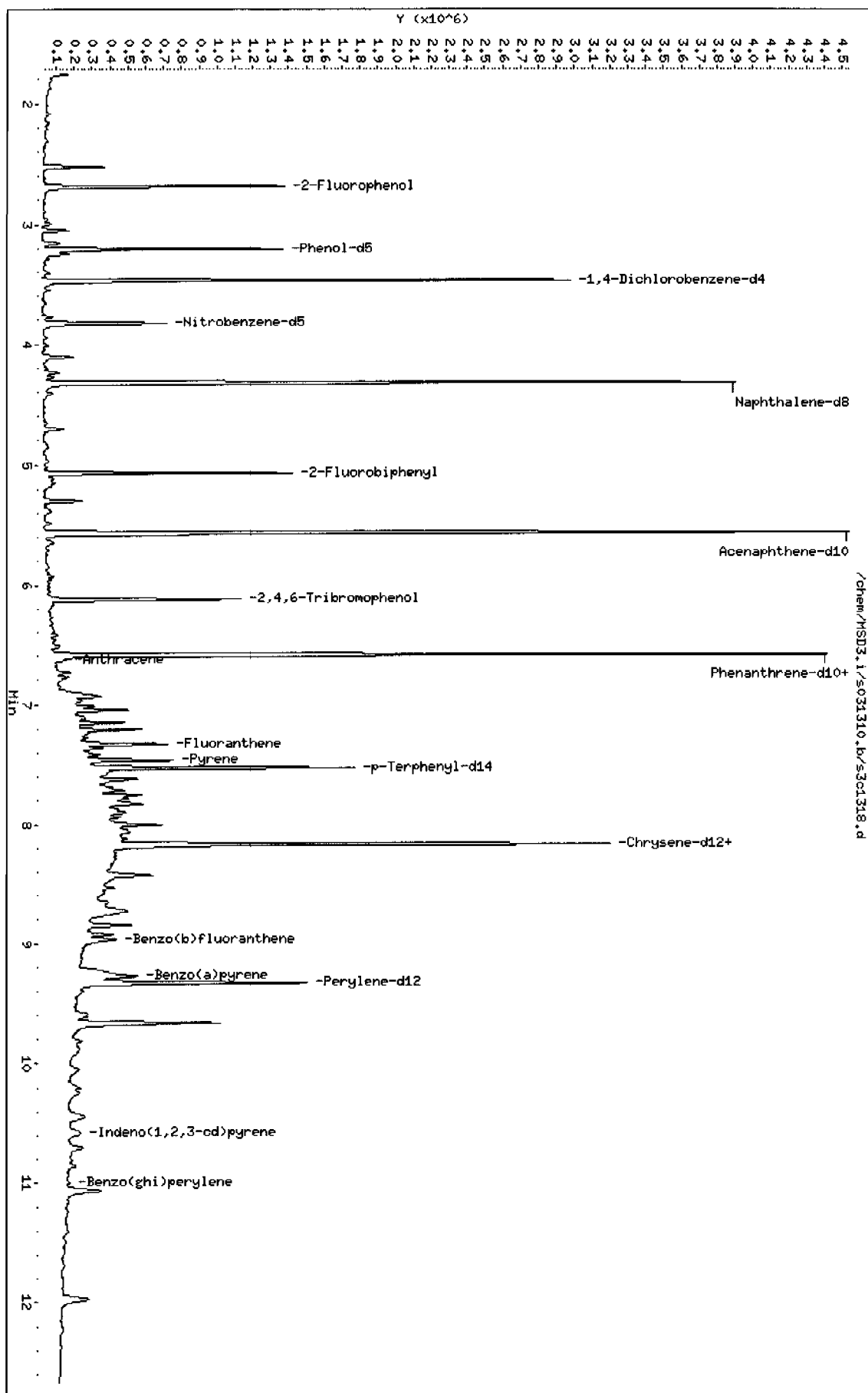
Volume Injected (uL): 0.5

Column phase: J&W DB-5MS

Instrument: MSD3.i

Operator: JLD1

Column diameter: 0.20



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 1248197004196045912ISVMF11ILANL

Volume Injected (uL): 0.5

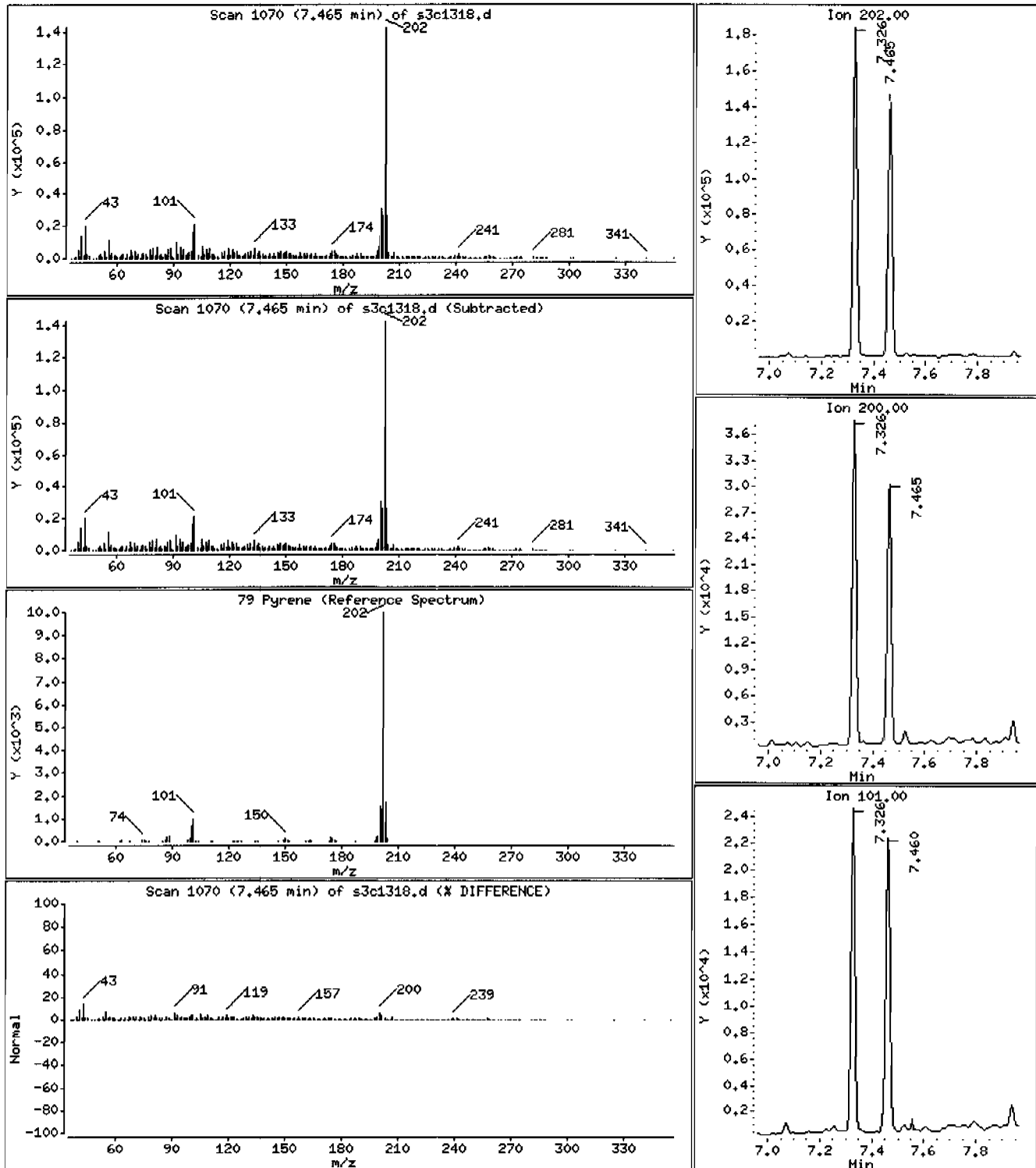
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 379 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: HSD3.i

Sample Info: 12481970041960459121SVHF11ILANL

Volume Injected (uL): 0.5

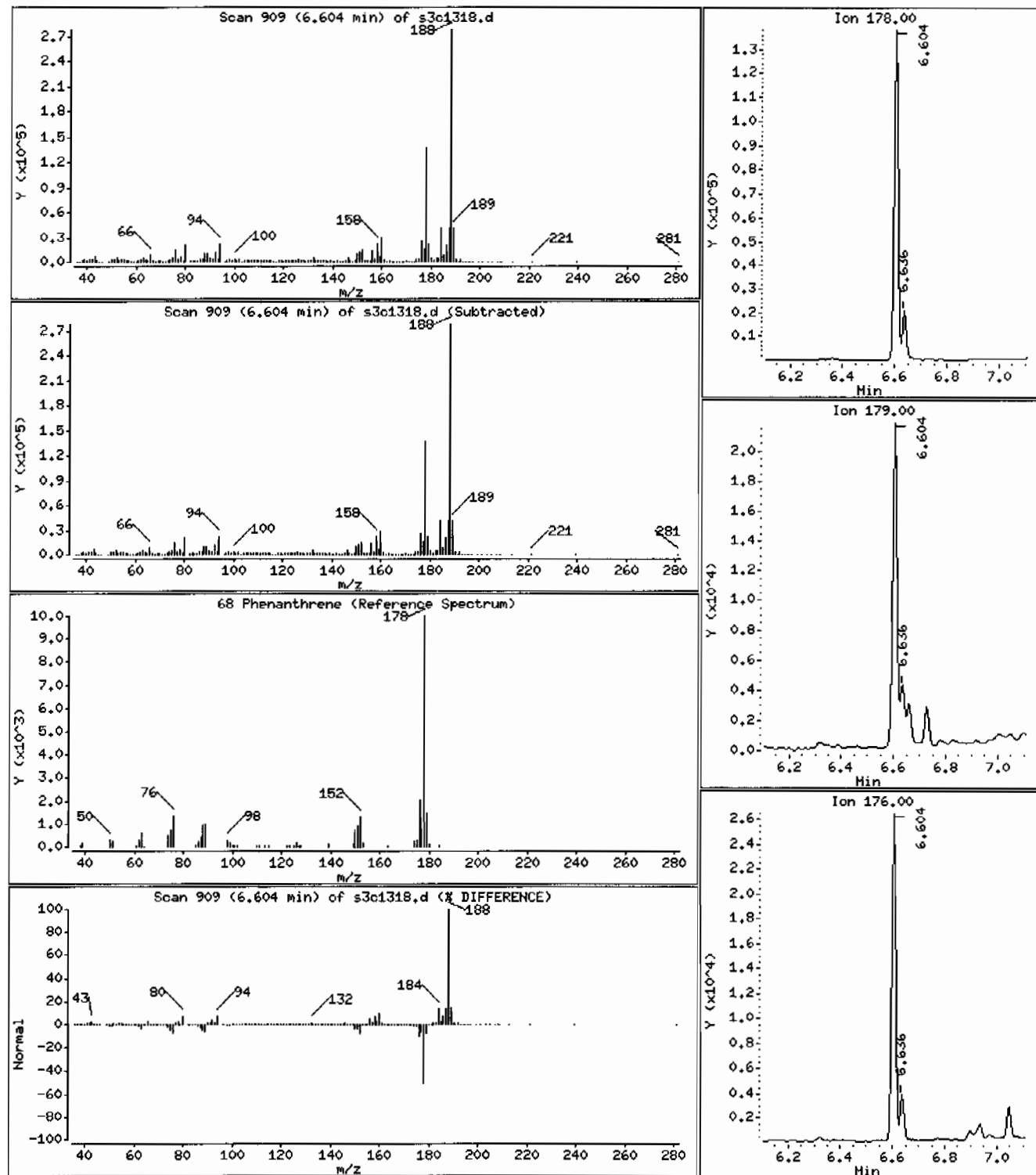
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 252 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: I248197004I960459I2ISVHF11ILANL

Volume Injected (uL): 0.5

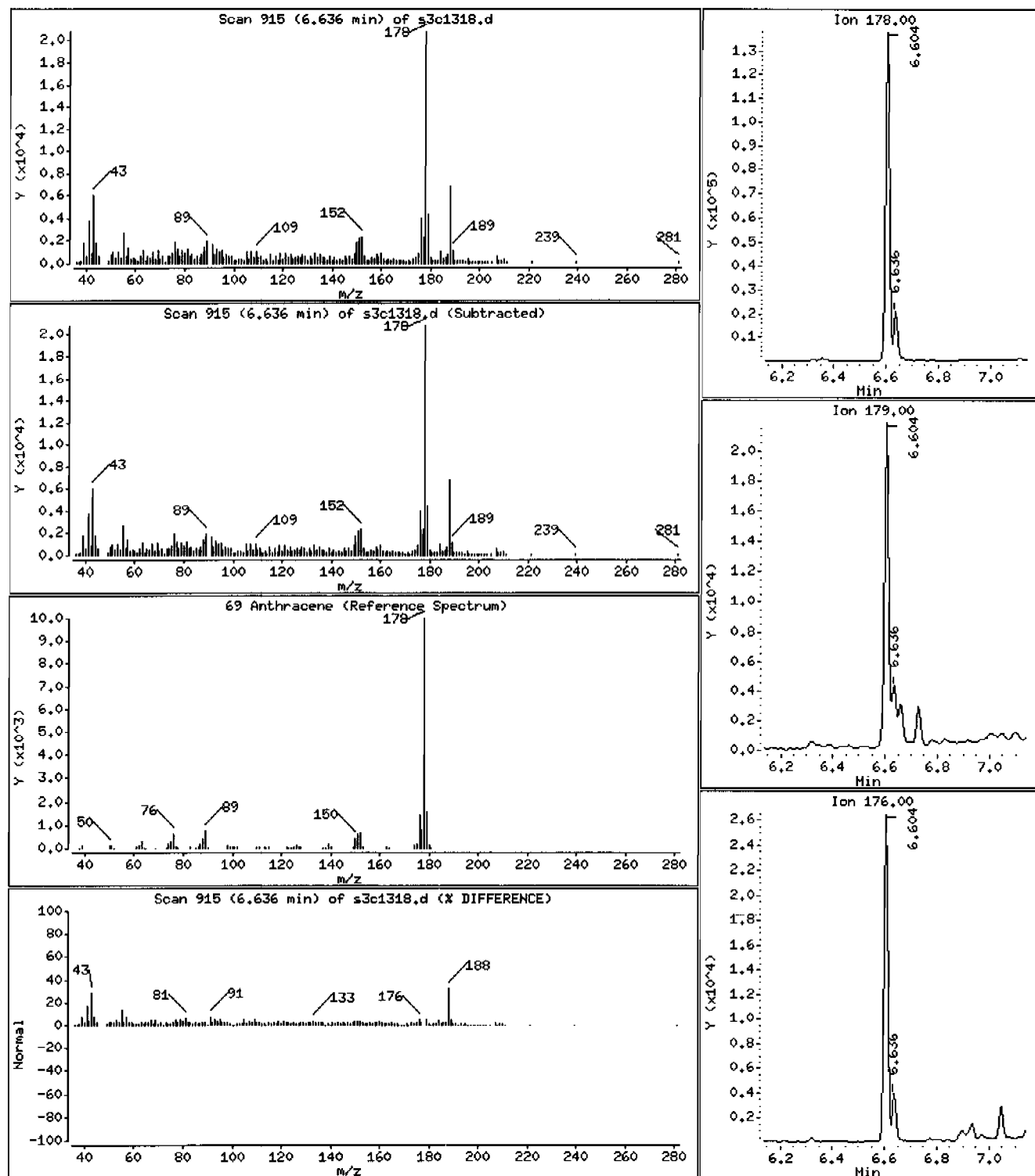
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 42.0 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: I248197004I960459I2ISVHF1IILANL

Volume Injected (uL): 0.5

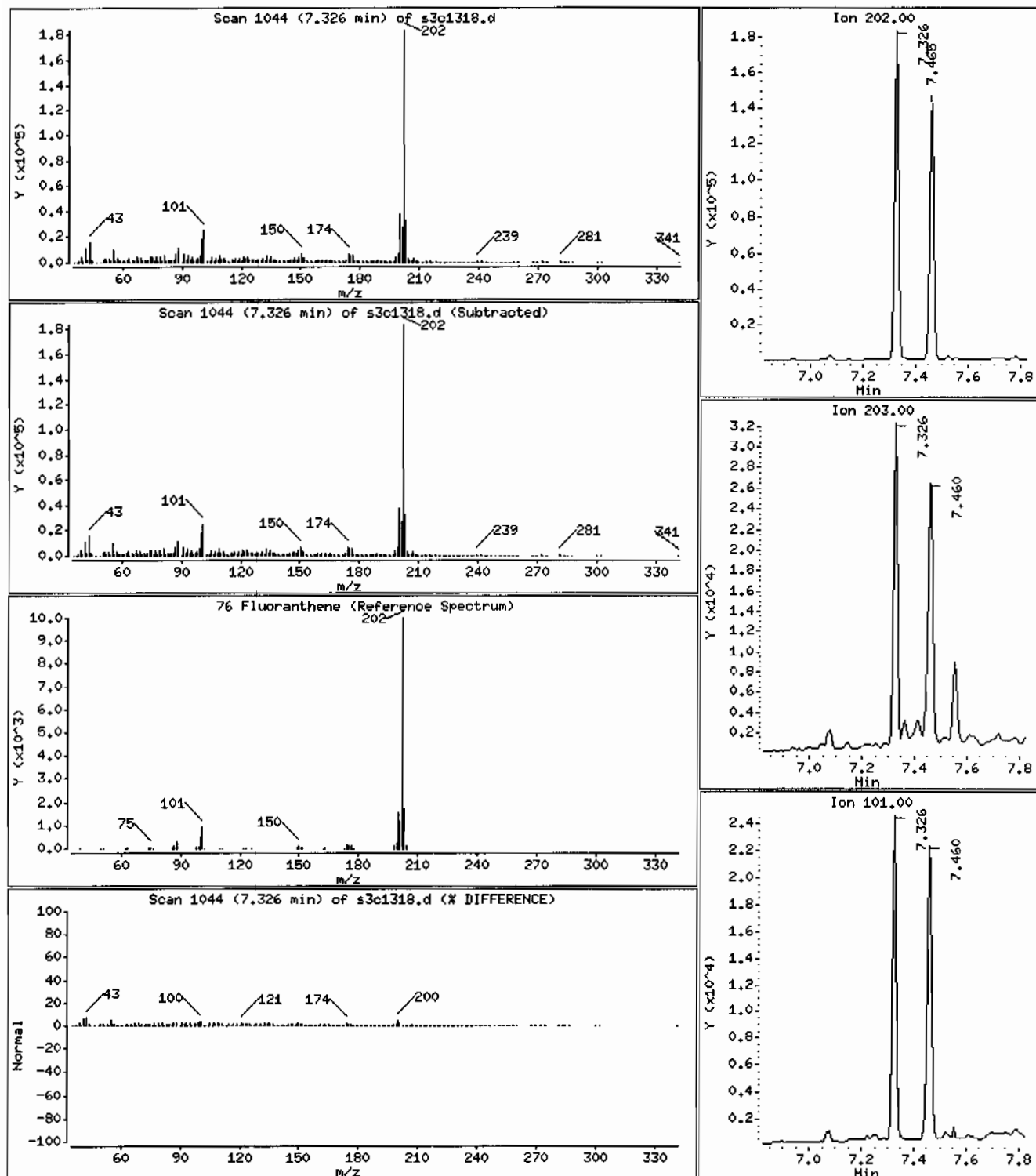
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 362 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 1248197004196045912ISVMFI11LANL

Volume Injected (uL): 0.5

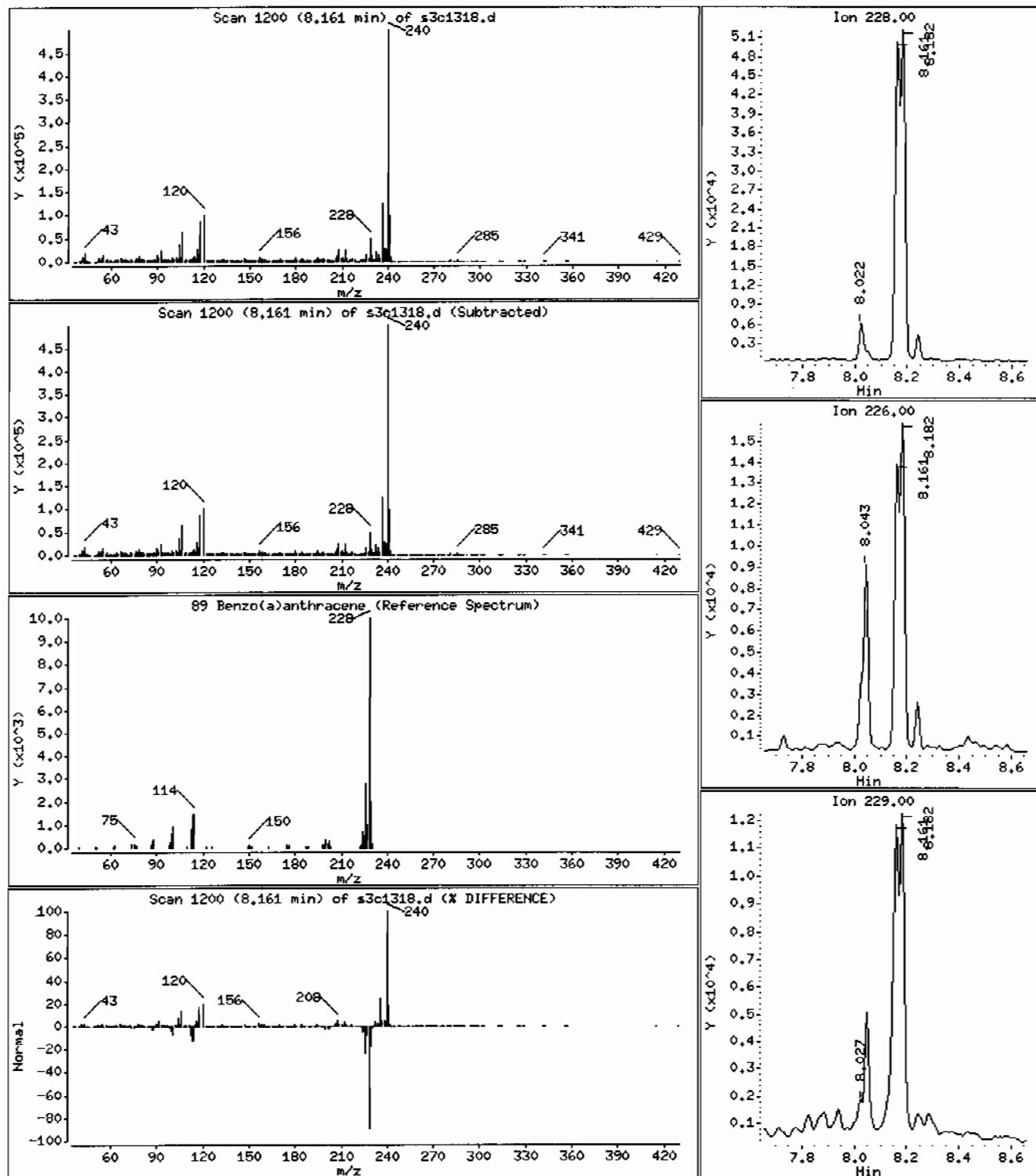
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 190 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF11ILANL

Volume Injected (uL): 0.5

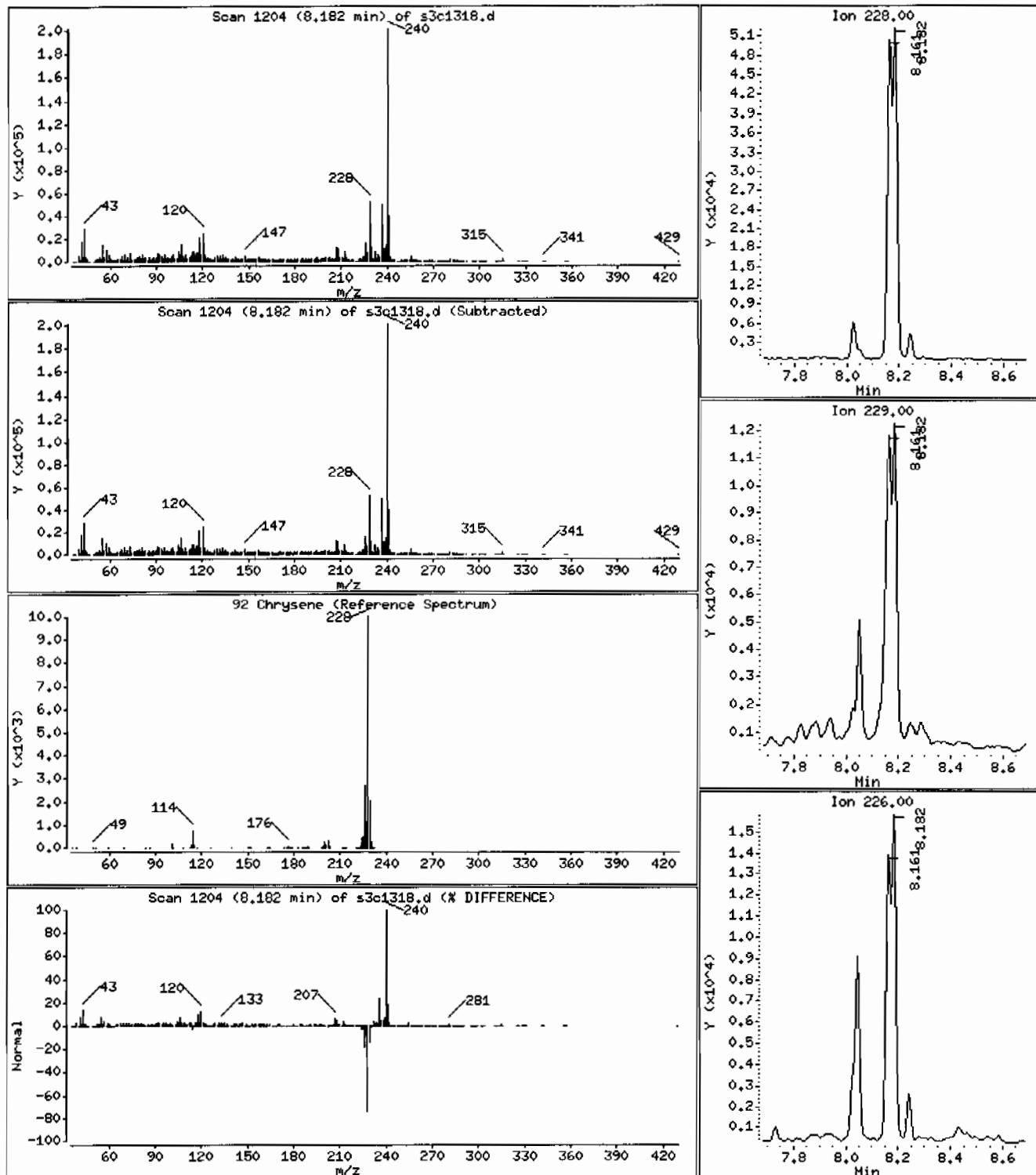
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 208 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF11ILANL

Volume Injected (uL): 0.5

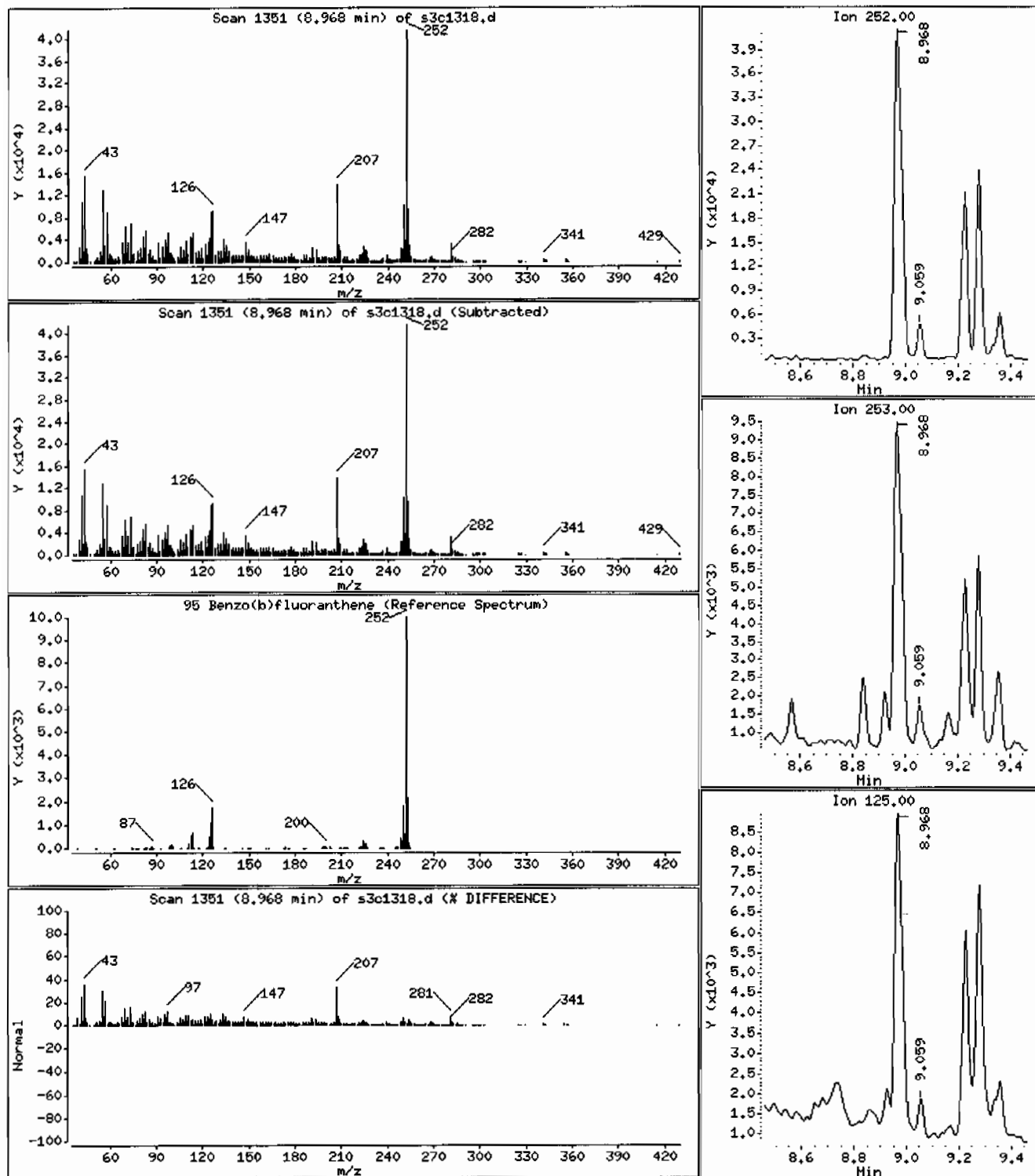
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 414 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 1248197004196045912ISVMFI11ILANL

Volume Injected (uL): 0.5

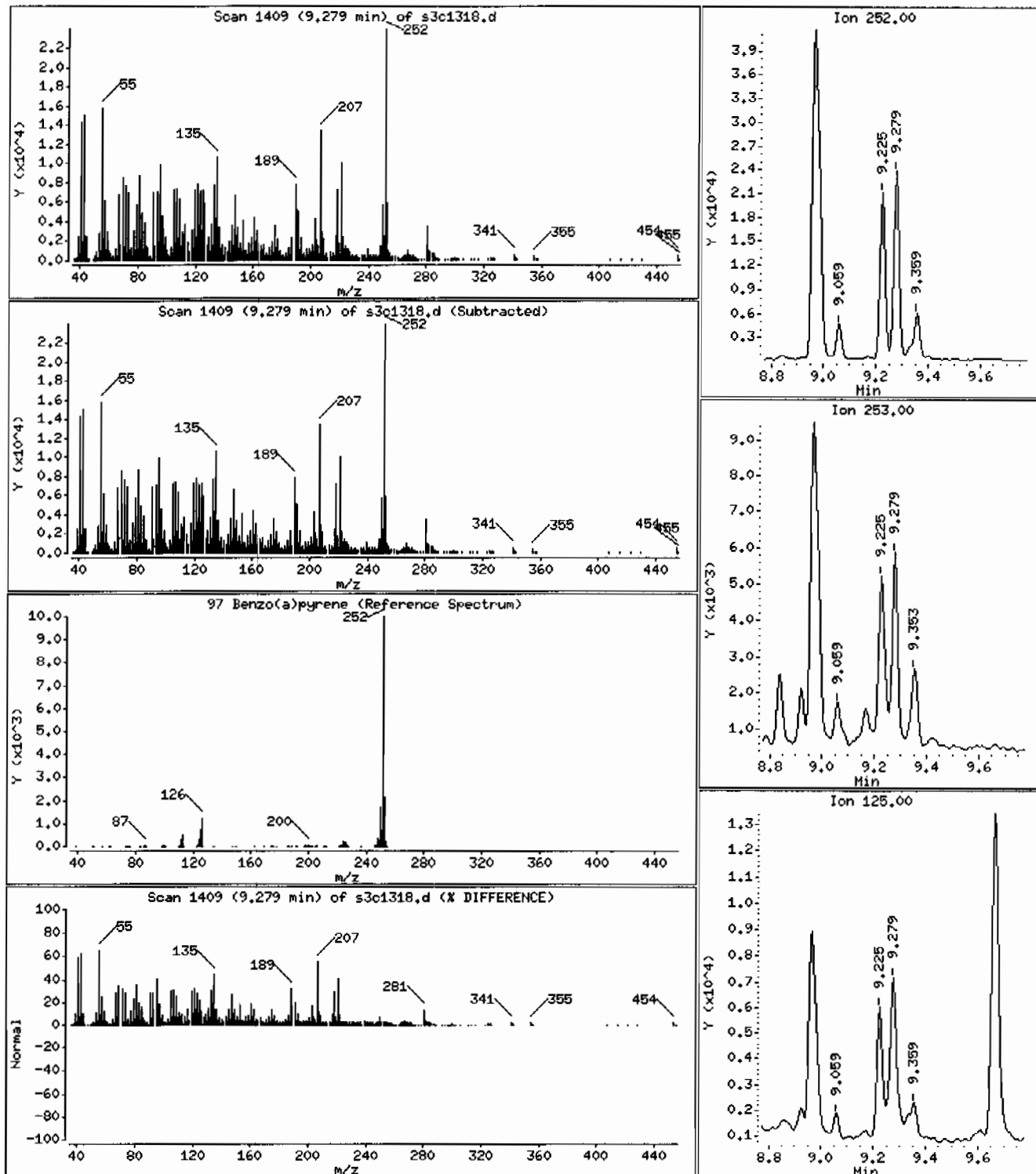
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 194 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

Volume Injected (uL): 0.5

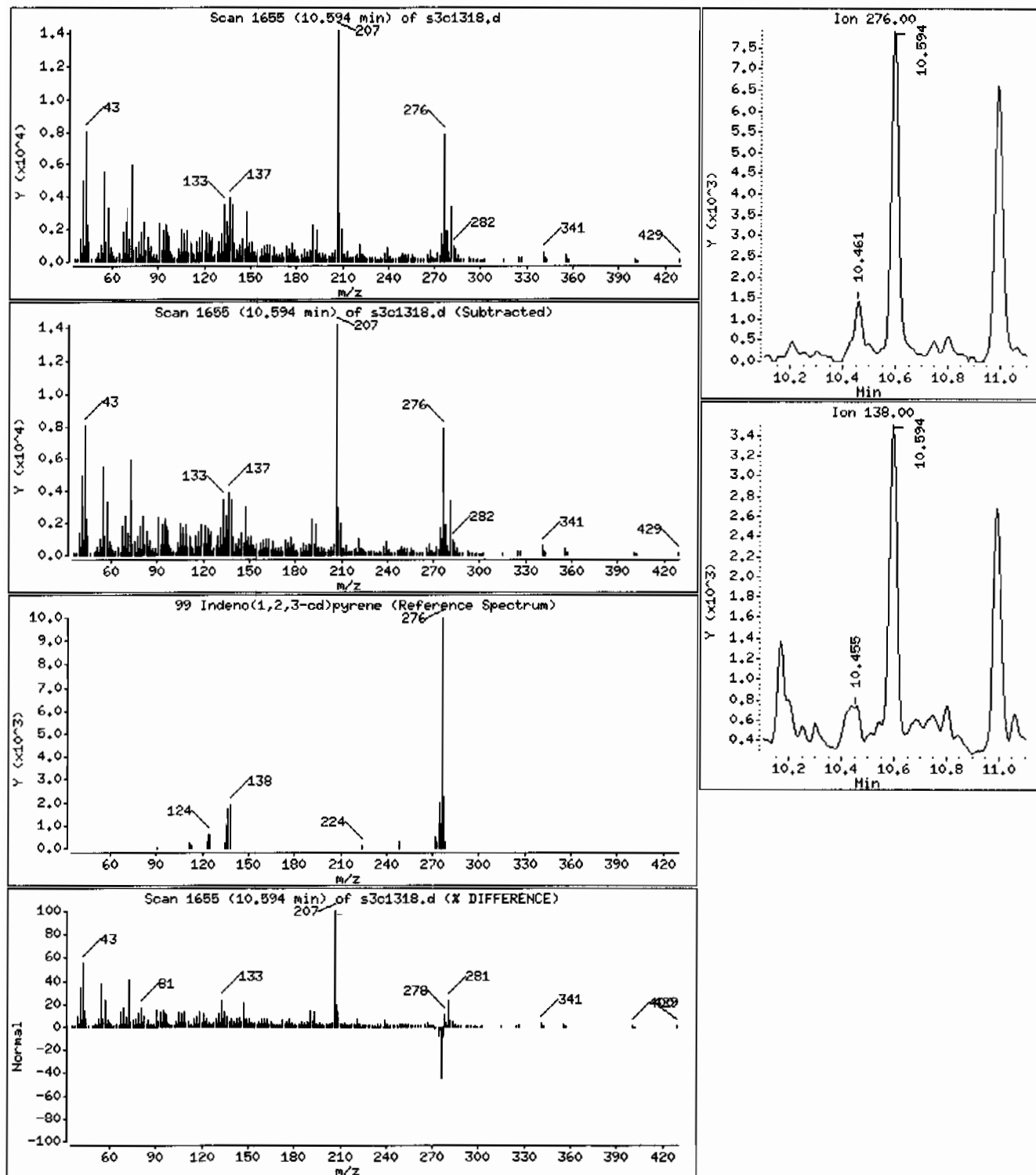
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 117 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: I248197004I960459I2ISVMF11ILANL

Volume Injected (uL): 0.5

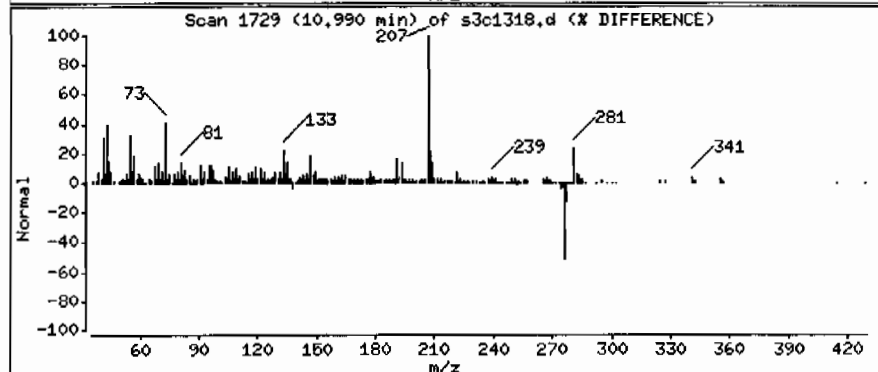
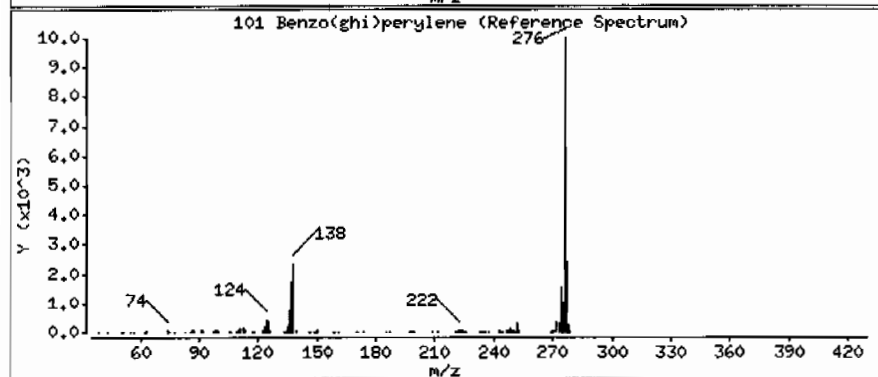
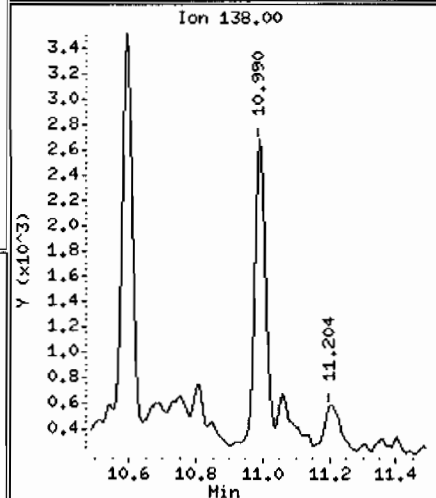
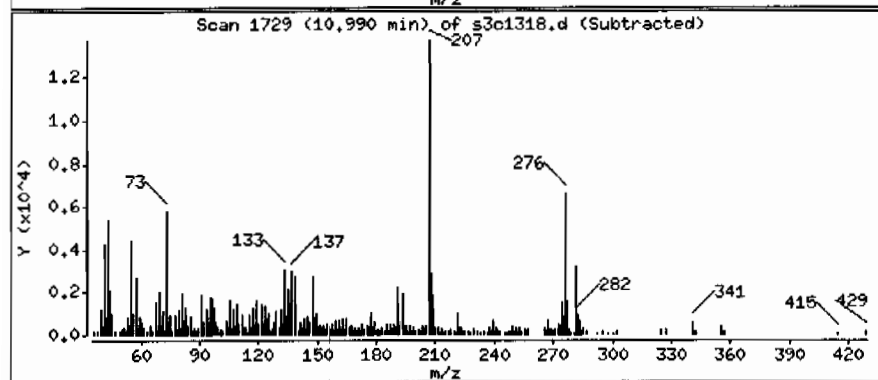
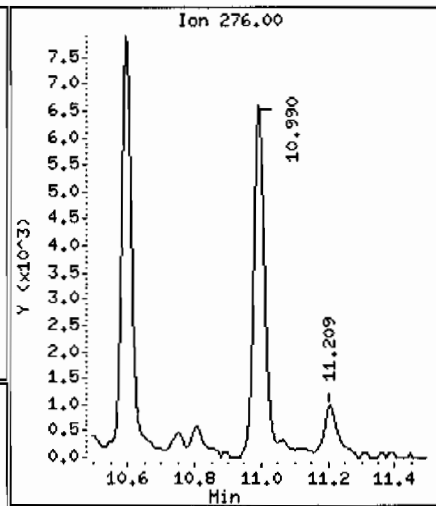
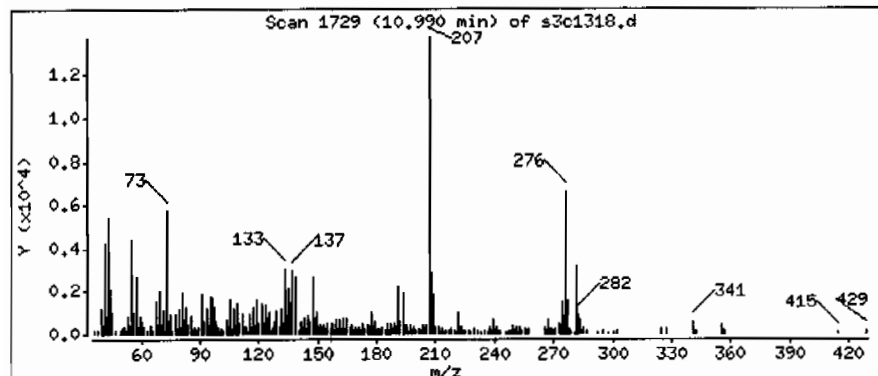
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 123 ug/Kg



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVMF111LANL

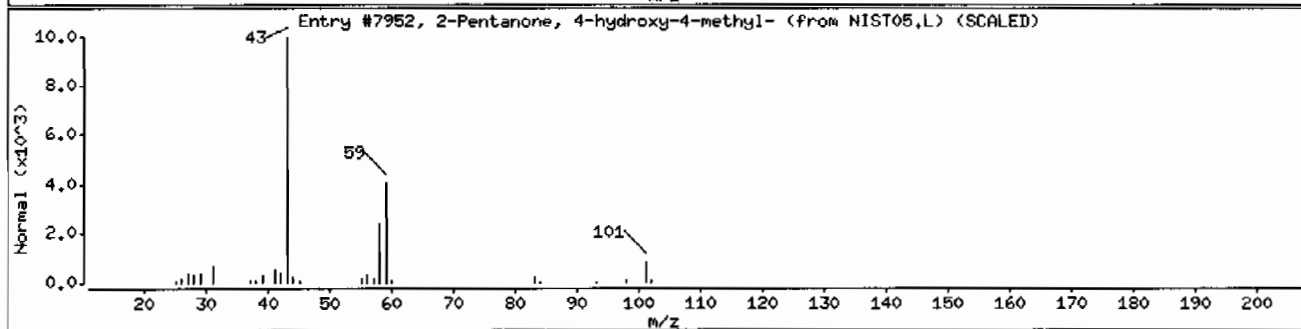
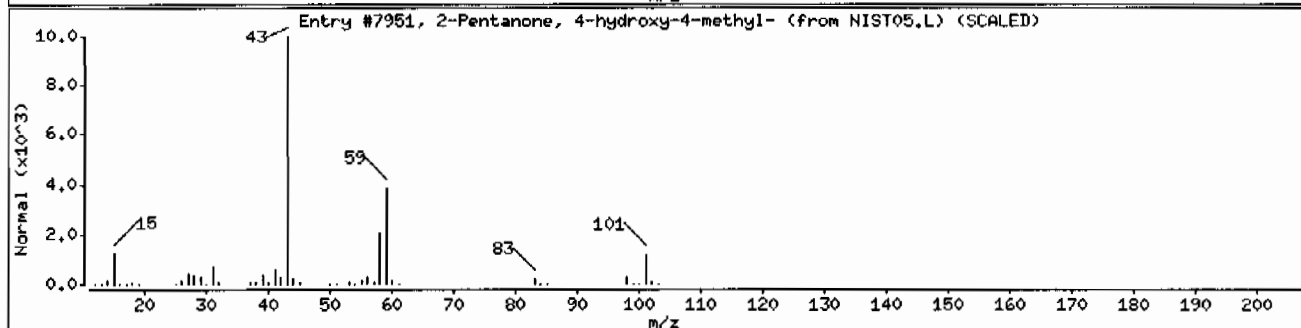
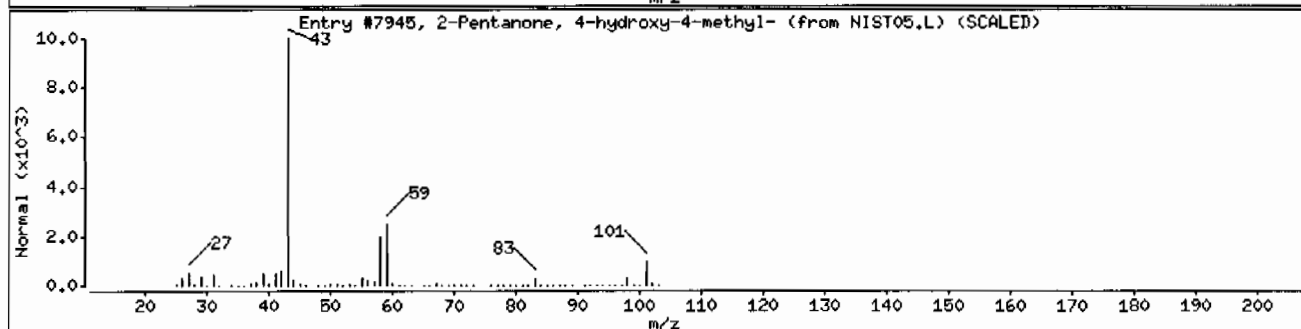
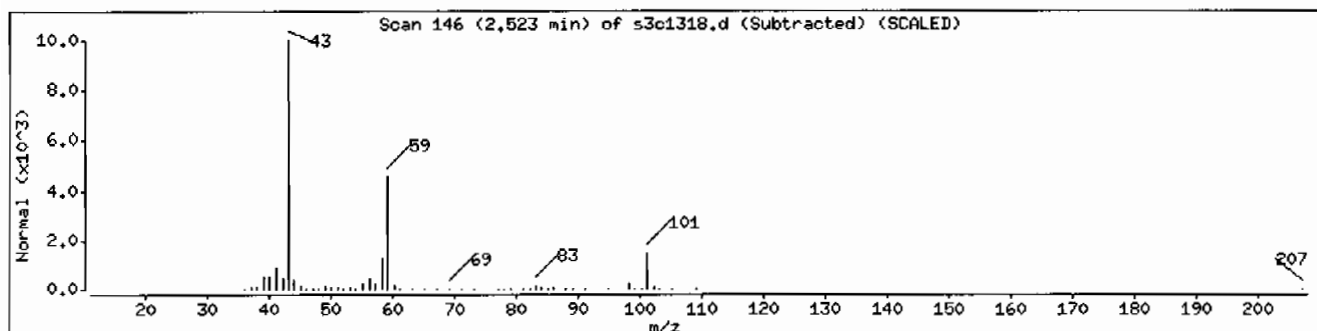
Volume Injected (uL): 0.5

Operator: JLD1

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	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: I248197004I960459I2ISVHF1I1LANL

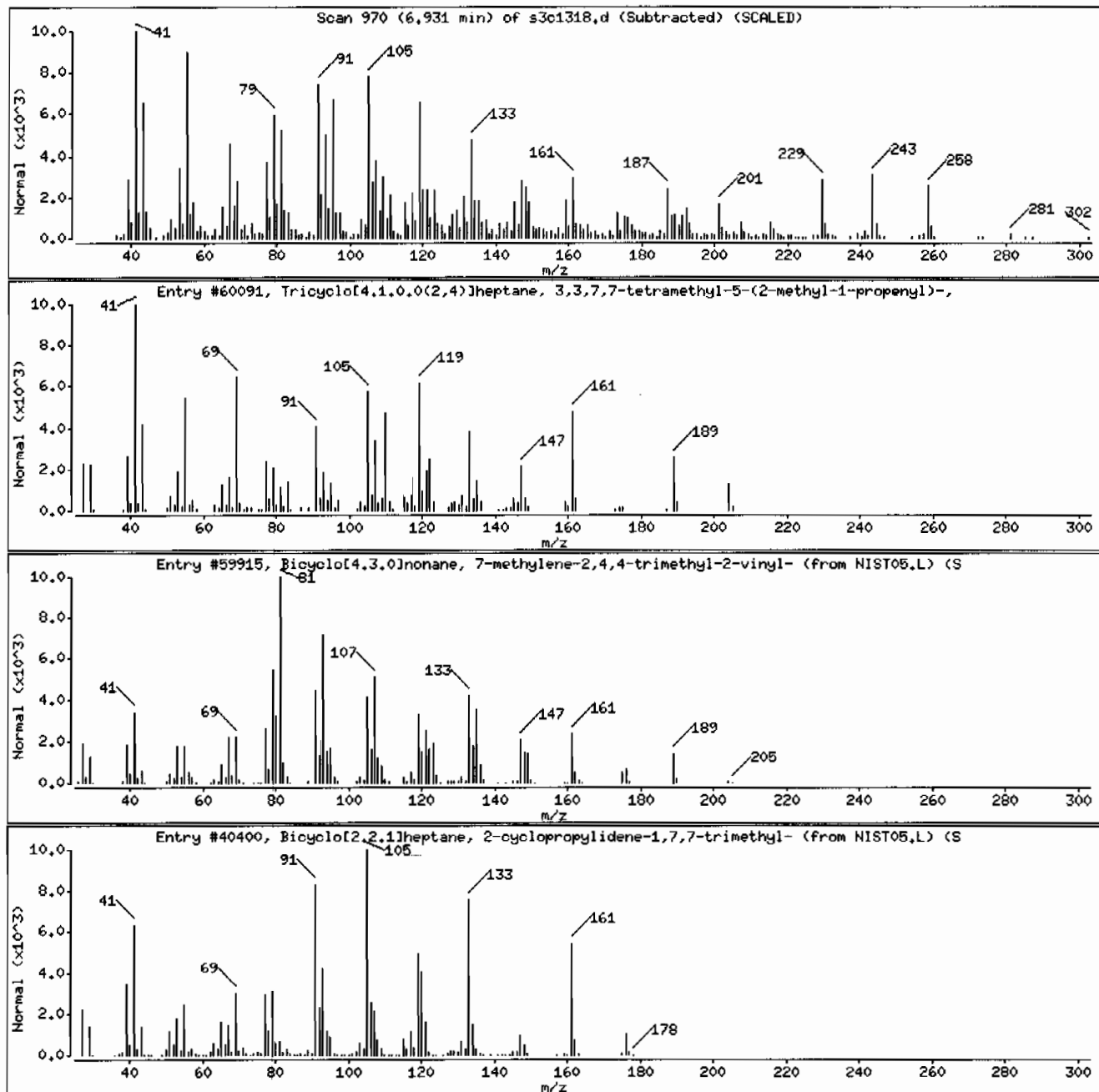
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tricyclo[4.1.0.0(2,4)]heptane, 3,3,7,7-t	67843-59-8	NIST05.L	60091	38	C ₁₅ H ₂₄	204
Bicyclo[4.3.0]nonane, 7-methylene-2,4,4-	1000156-11-9	NIST05.L	59915	35	C ₁₅ H ₂₄	204
Bicyclo[2.2.1]heptane, 2-cyclopropyliden	1000159-45-7	NIST05.L	40400	25	C ₁₃ H ₂₀	176



Date: 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

Unknown

1-Hydroxy-1,7-dimethyl-4-isopropyl-2,7-o

CAS Number

Library

Entry

Quality

Formula

Weight

72120-50-4

NIST05.L

72955

38

C15H26O

222

1,6-Bis(methyl(trimethylene)silyloxy)hex

1000217-00-5

NIST05.L

115743

38

C14H30O2Si2

286

Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-

4630-07-3

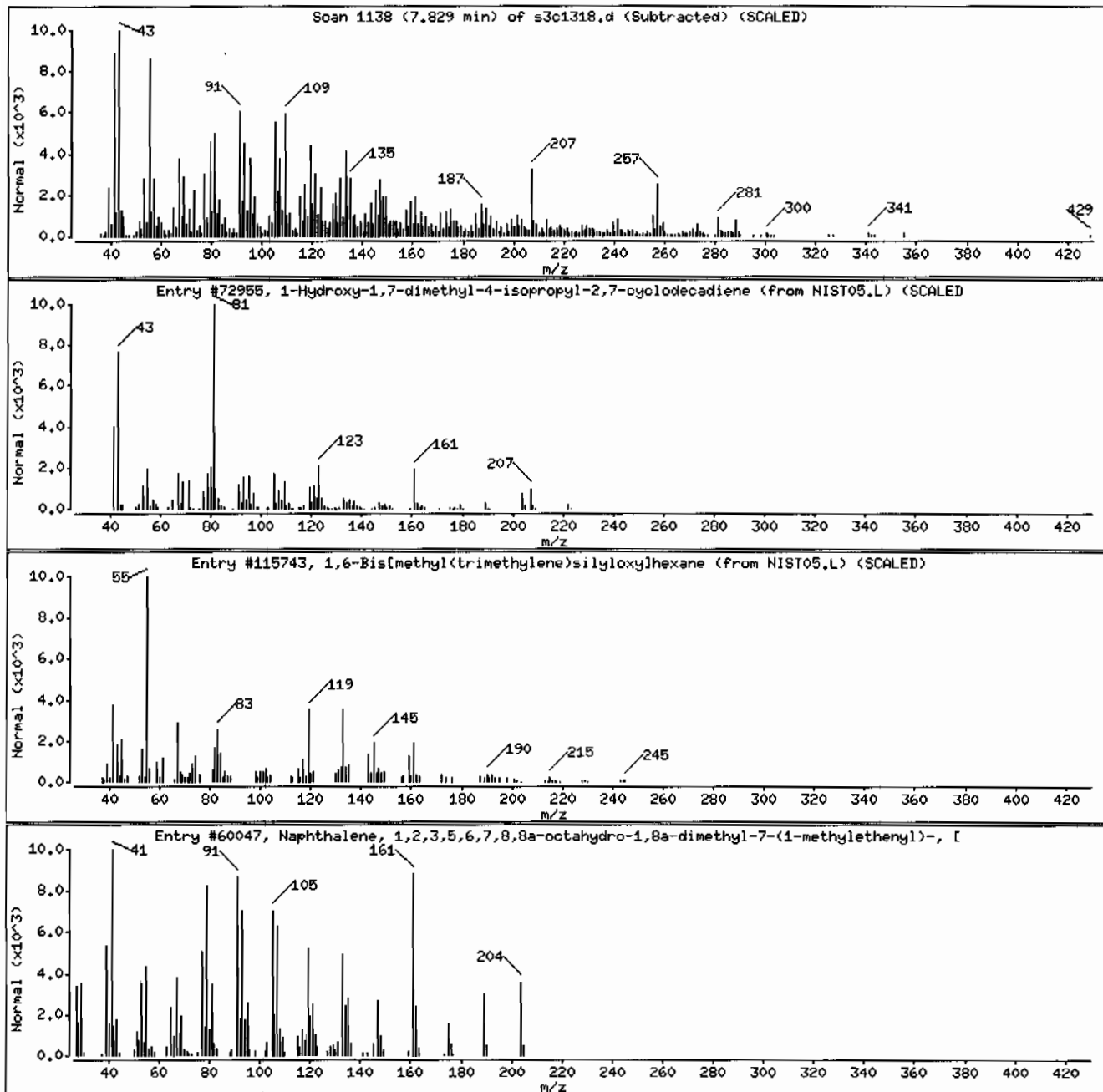
NIST05.L

60047

35

C15H24

204



Date: 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVMF111LANL

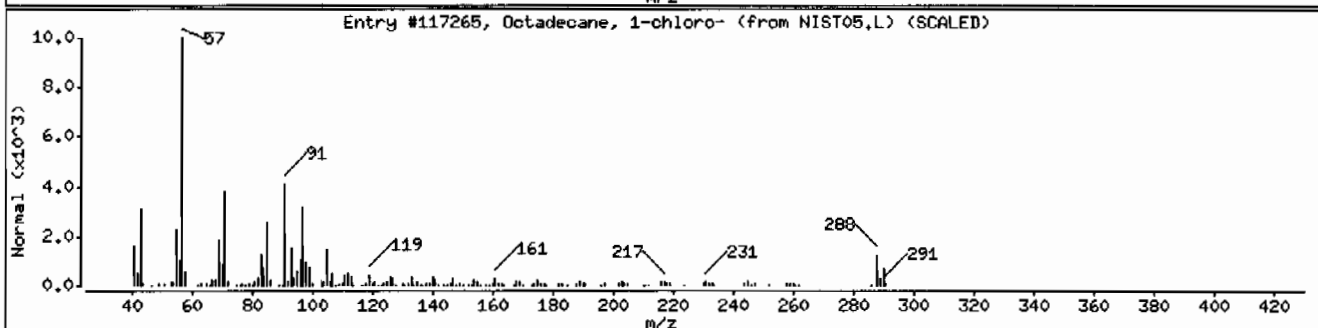
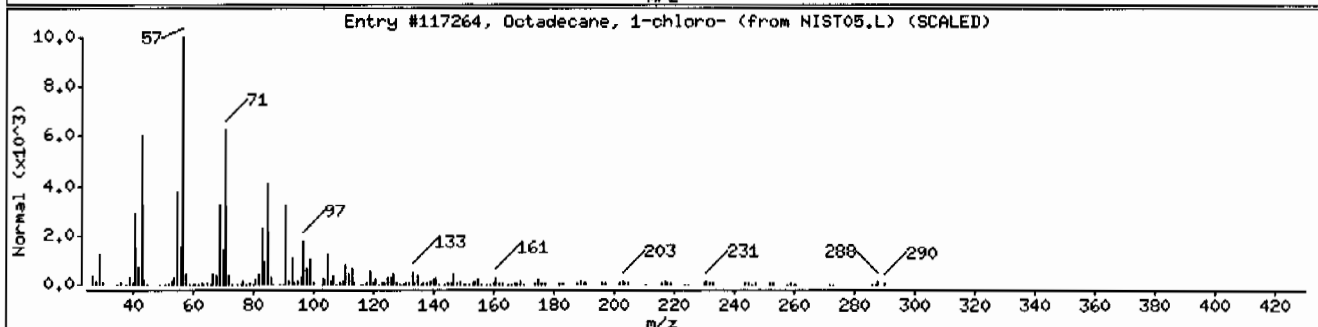
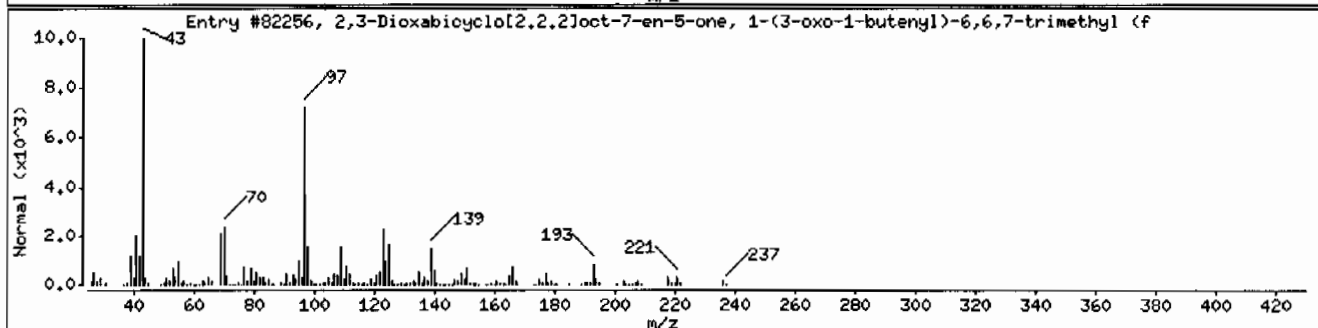
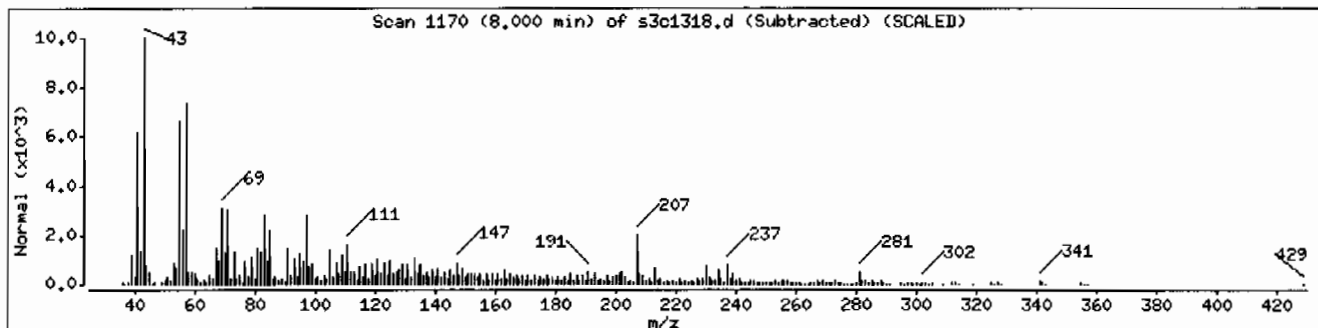
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,3-Dioxabicyclo[2.2.2]oct-7-en-5-one, 1	1000196-81-3	NIST05.L	82256	53	C13H16O4	236
Octadecane, 1-chloro-	3386-33-2	NIST05.L	117264	52	C18H37Cl	288
Octadecane, 1-chloro-	3386-33-2	NIST05.L	117265	49	C18H37Cl	288



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVMF11ILANL

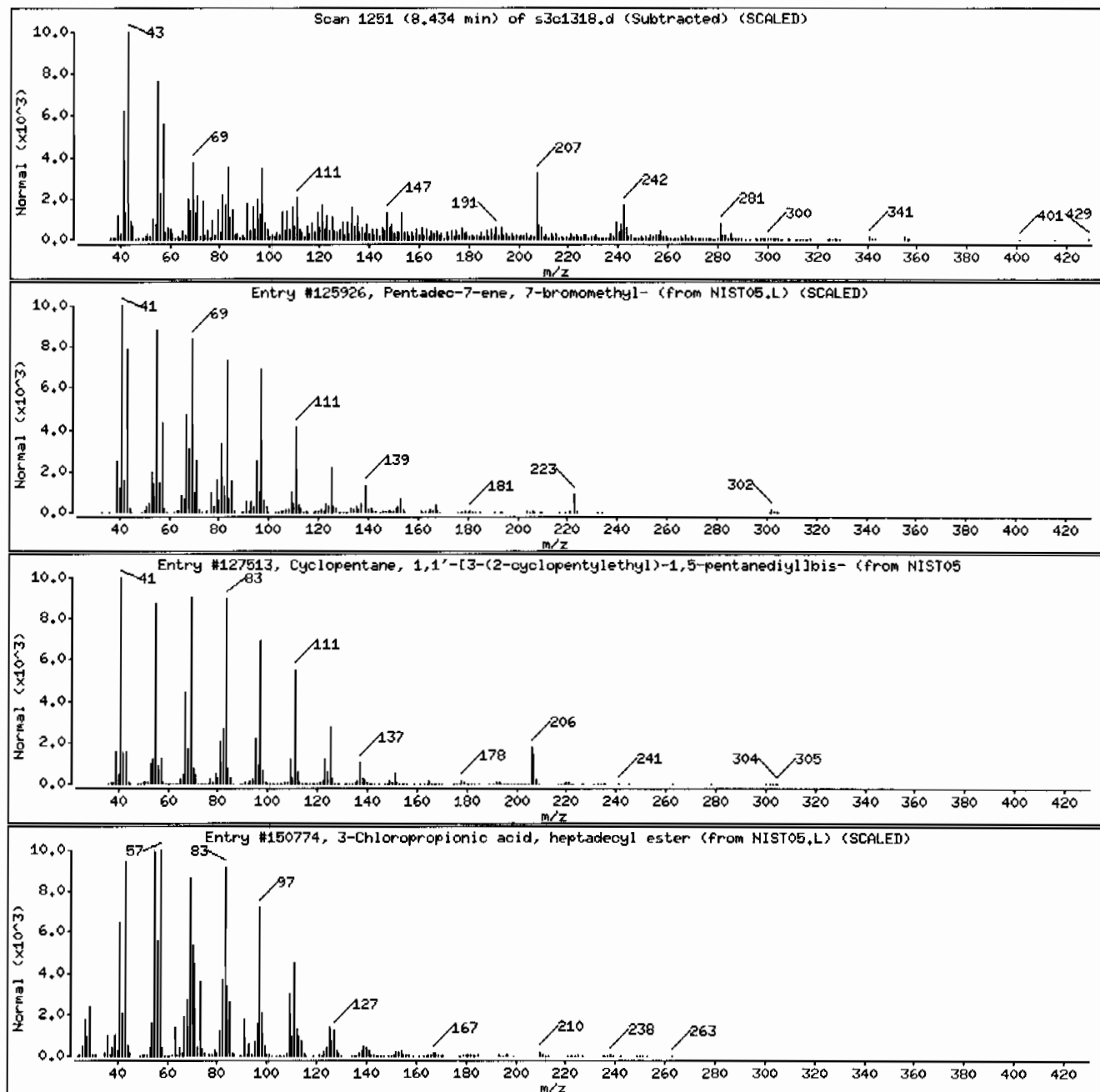
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentadec-7-ene, 7-bromomethyl-	1000259-58-5	NIST05.L	125926	52	C16H31Br	302
Cyclopentane, 1,1'-[3-(2-cyclopentylethy	55255-85-1	NIST05.L	127513	42	C22H40	304
3-Chloropropionic acid, heptadecyl ester	1000283-05-1	NIST05.L	150774	38	C20H39ClO2	346



Date: 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

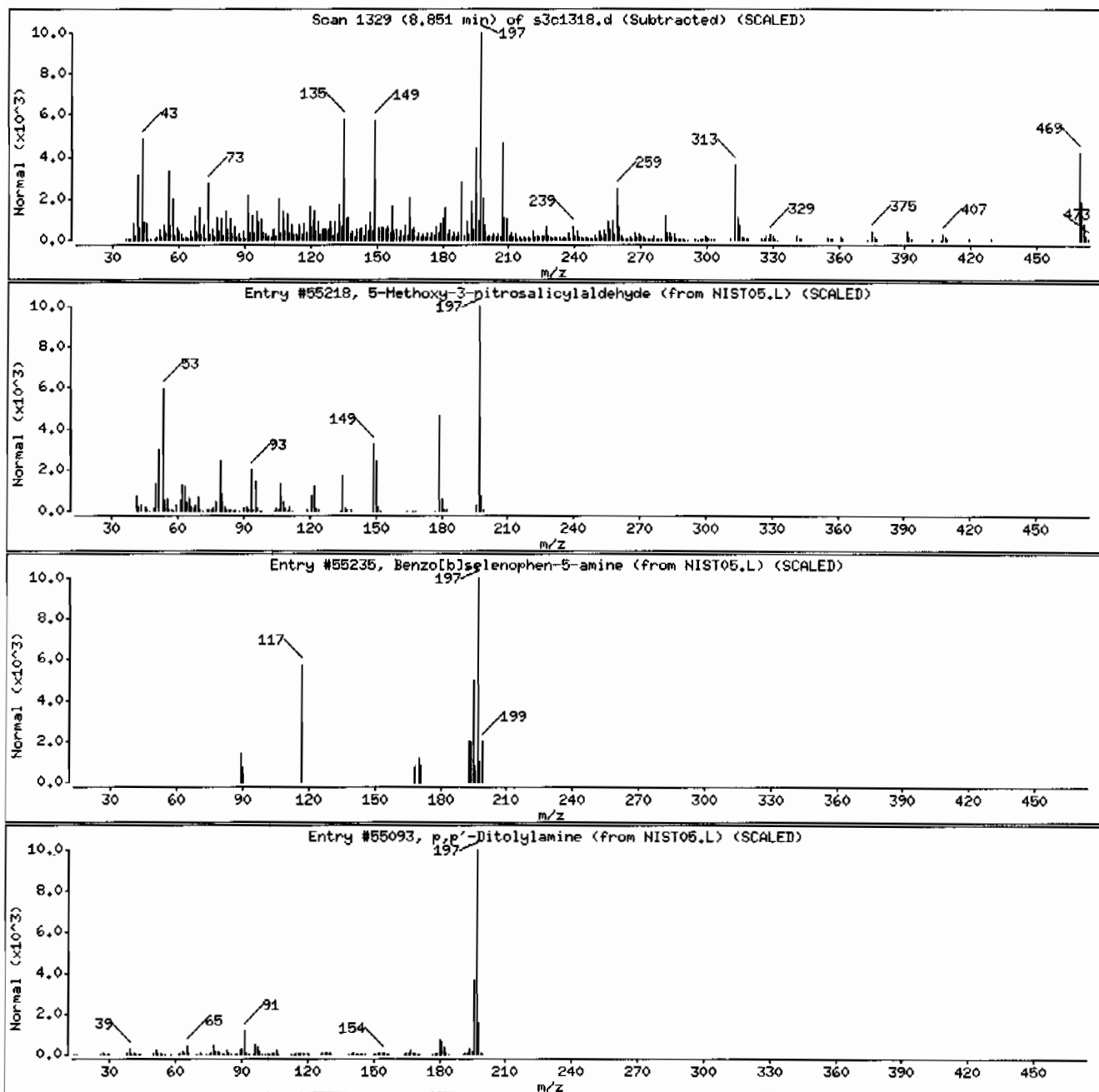
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
5-Methoxy-3-nitrosalicylaldehyde	34549-69-4	NIST05.L	55218	22	C8H7NO5	197
Benzo[b]selenophen-5-amine	30697-16-6	NIST05.L	55235	22	C8H7NSe	197
p,p'-Ditolylamine	620-93-9	NIST05.L	55093	20	C14H15N	197



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF11ILANL

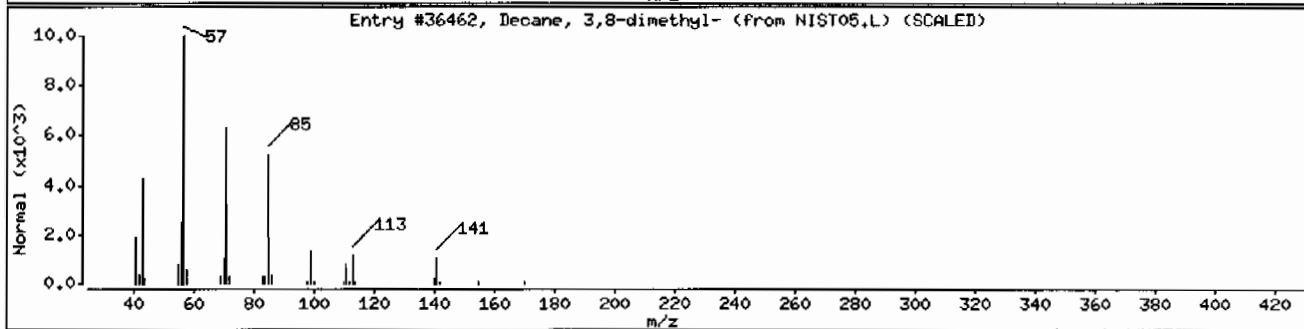
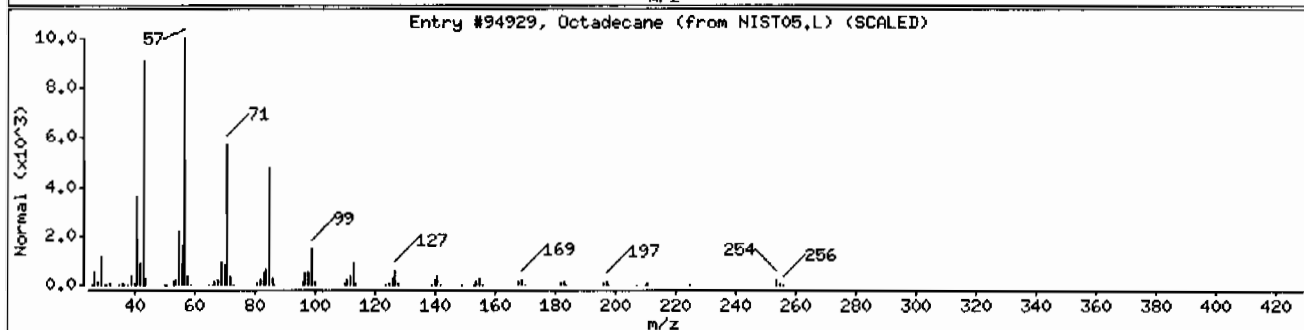
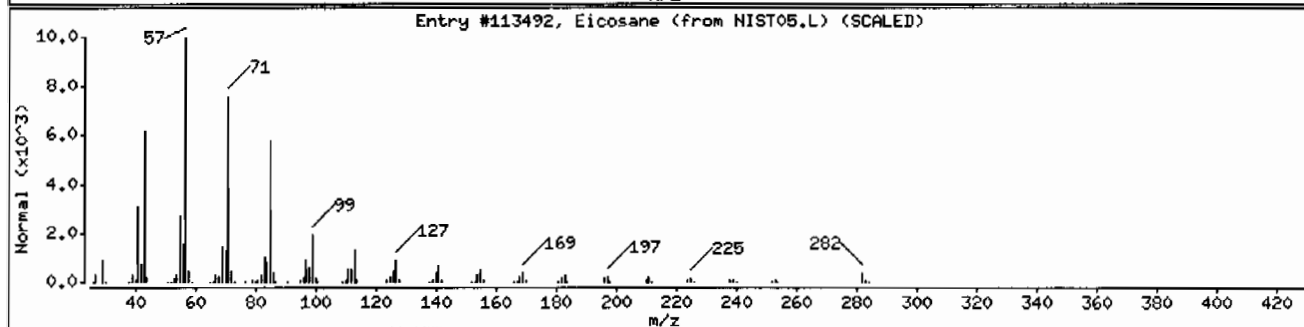
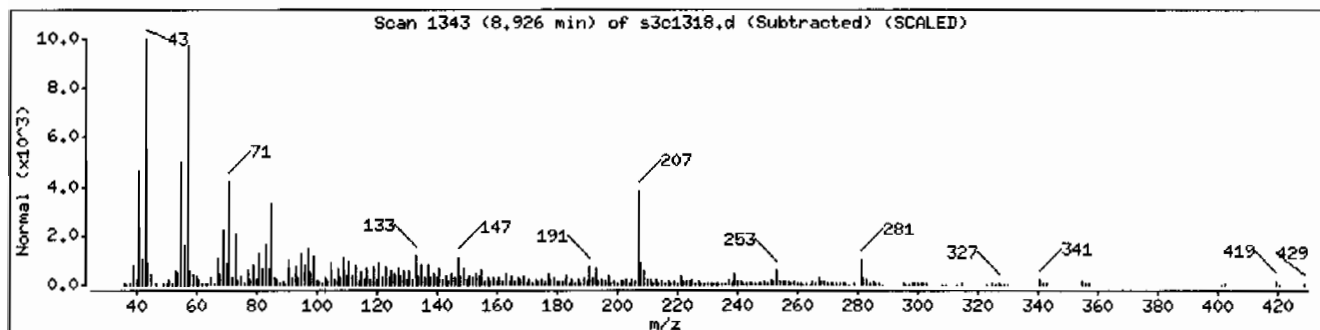
Volume Injected (uL): 0.5

Operator: JLD1

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	93	C ₂₀ H ₄₂	282
Octadecane	593-45-3	NIST05.L	94929	74	C ₁₈ H ₃₈	254
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	70	C ₁₂ H ₂₆	170



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

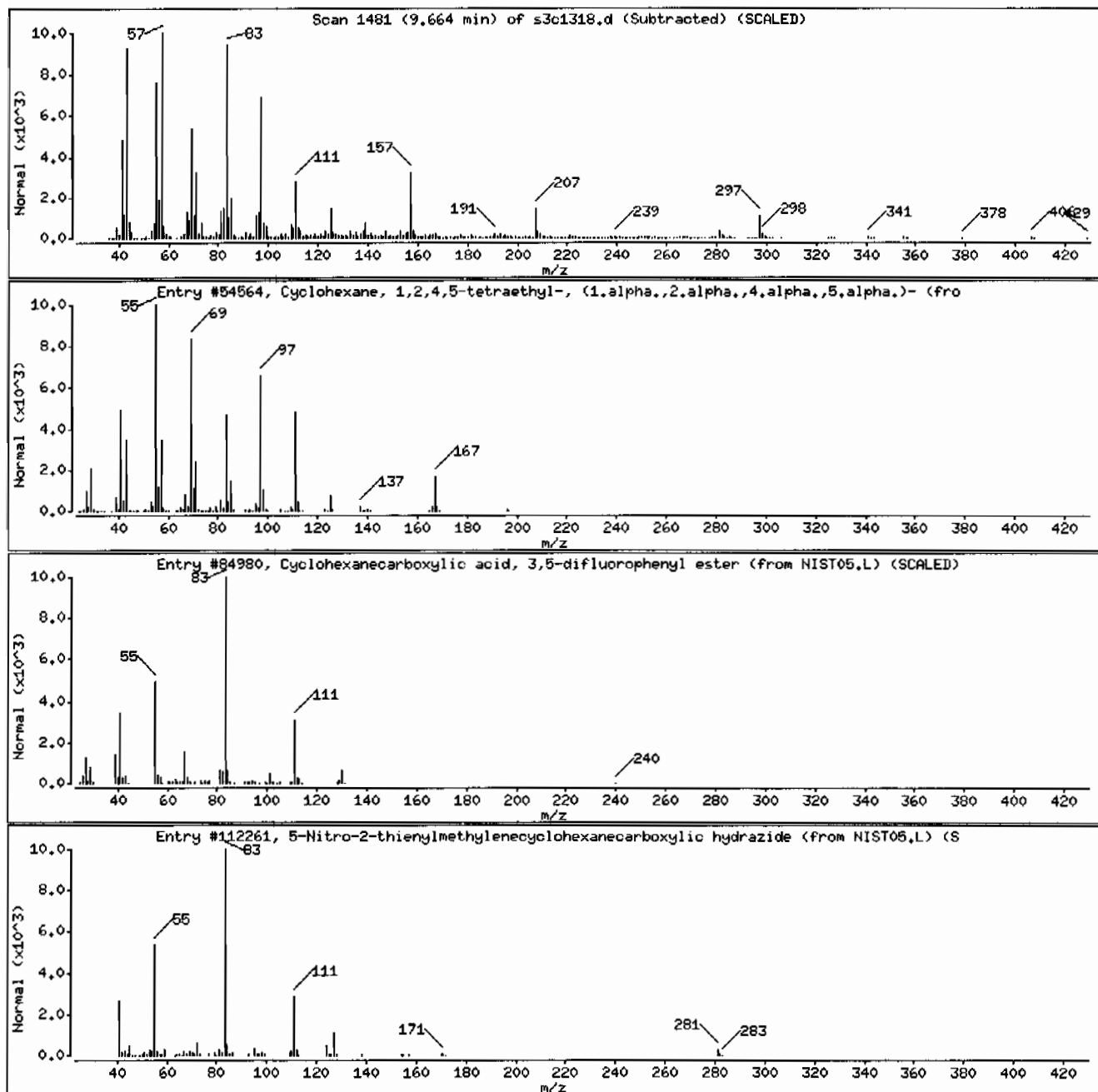
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,2,4,5-tetraethyl-, (1.alpha.,2.alpha.,4.alpha.,5.alpha.)-	61142-24-3	NIST05.L	54564	43	C14H28	196
Cyclohexanecarboxylic acid, 3,5-difluoro	1000293-69-2	NIST05.L	84980	41	C13H14F2O2	240
5-Nitro-2-thienylmethylenecyclohexanecar	42826-29-9	NIST05.L	112261	38	C12H15N3O3S	281



Date: 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVNF11ILANL

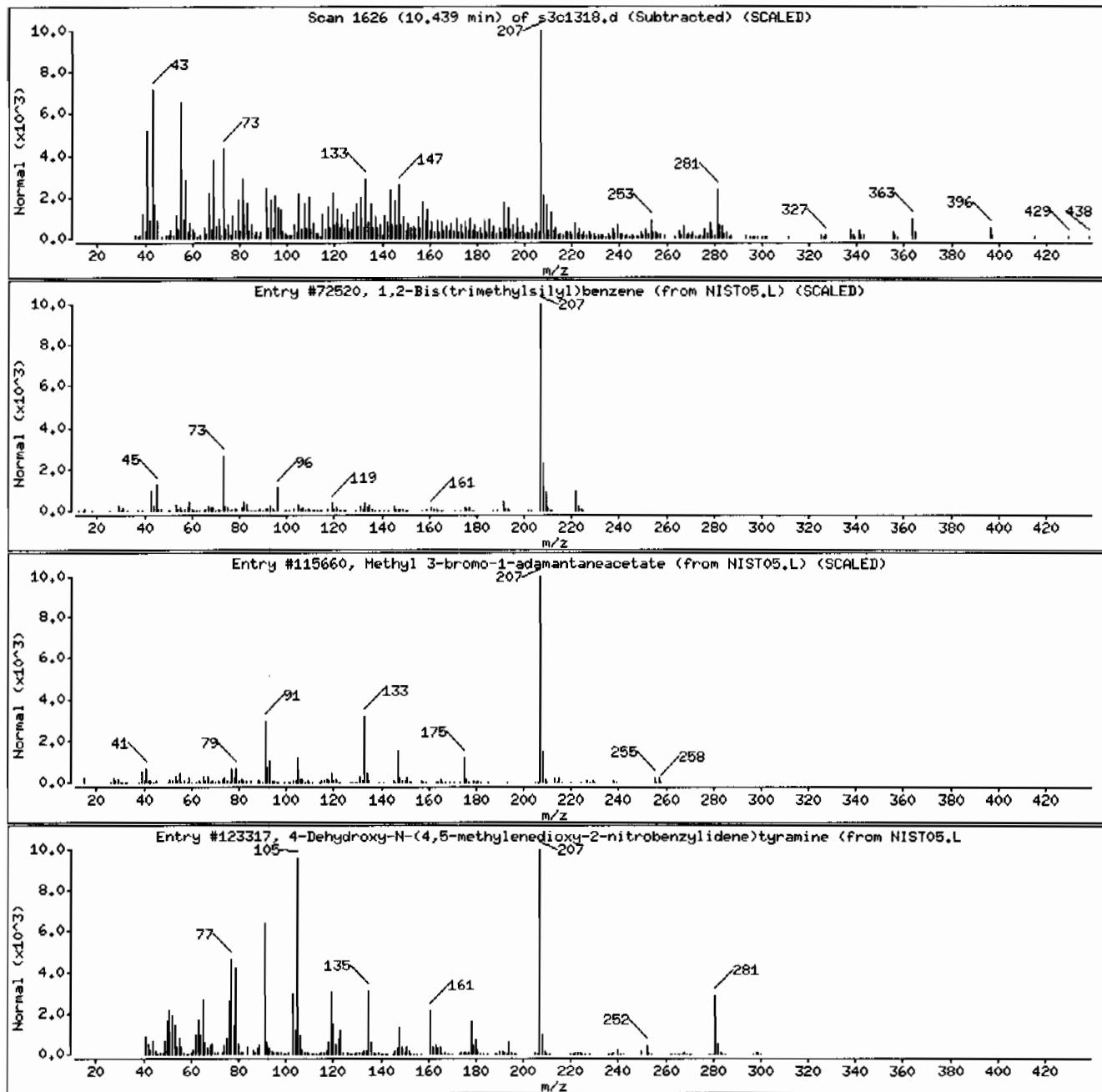
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2-Bis(trimethylsilyl)benzene	17151-09-6	NIST05.L	72520	35	C ₁₂ H ₂₂ Si ₂	222
Methyl 3-bromo-1-adamantaneacetate	14575-01-0	NIST05.L	115660	35	C ₁₃ H ₁₉ BrO ₂	286
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	35	C ₁₆ H ₁₄ N ₂ O ₄	298



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

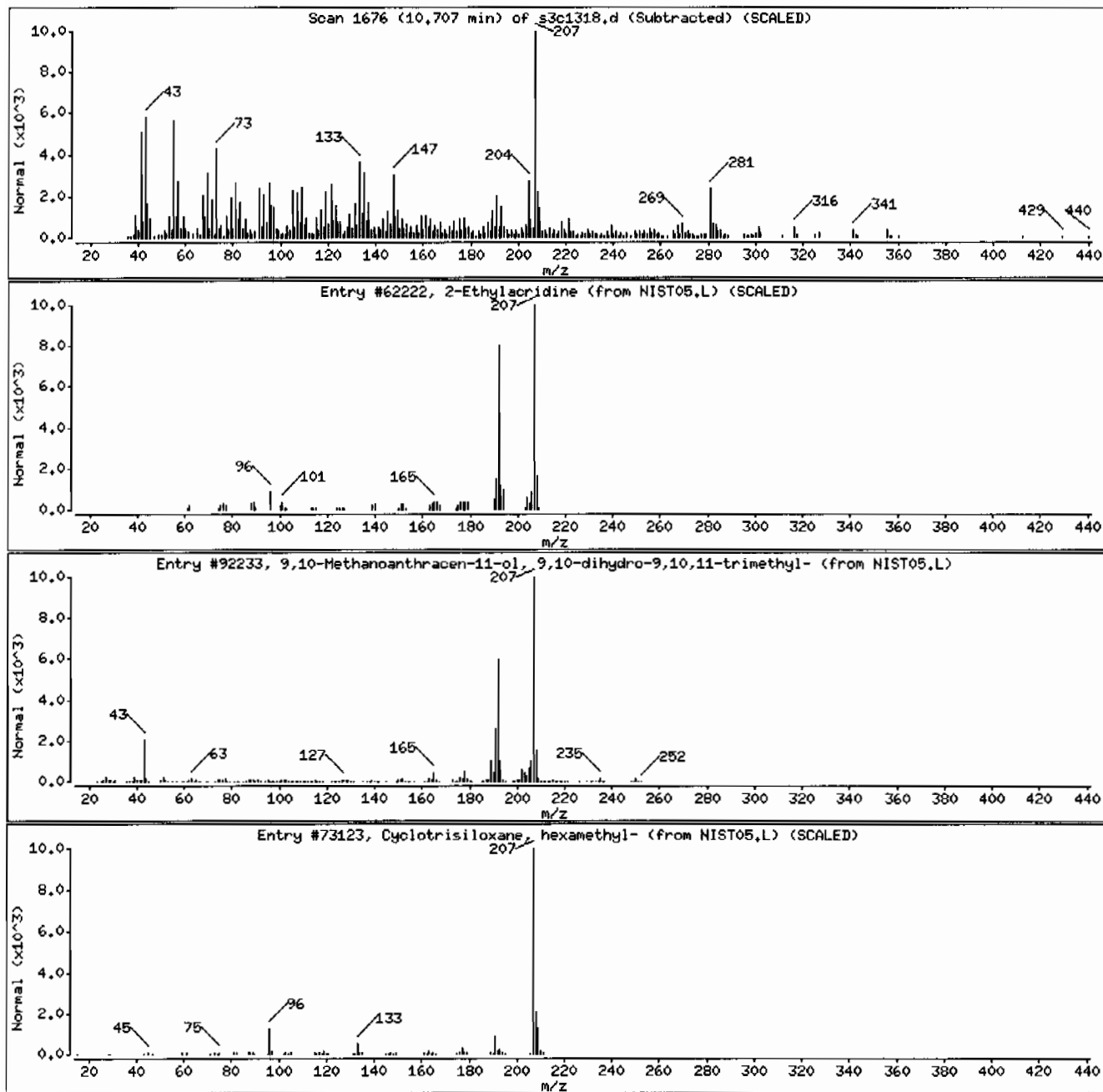
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Ethylacridine	55751-83-2	NIST05.L	62222	46	C15H13N	207
9,10-Methanoanthracen-11-ol, 9,10-dihydro	126615-74-5	NIST05.L	92233	42	C18H18O	250
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73123	38	C6H18O3Si3	222



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVHF111LANL

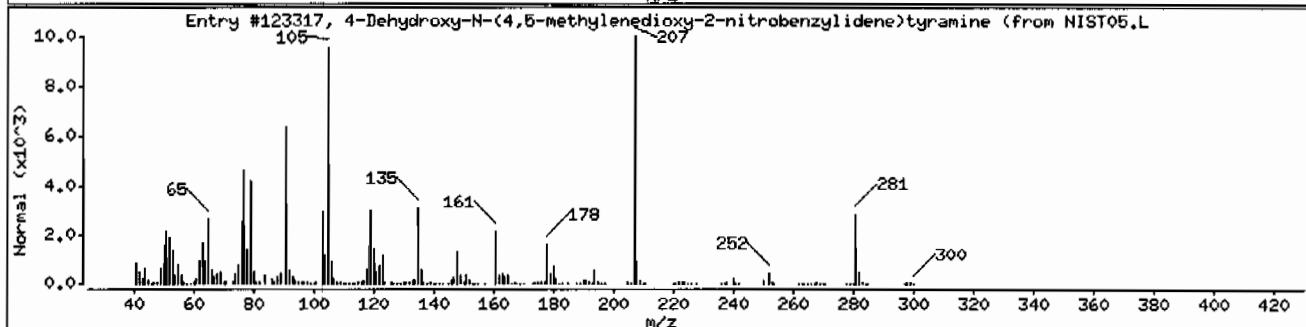
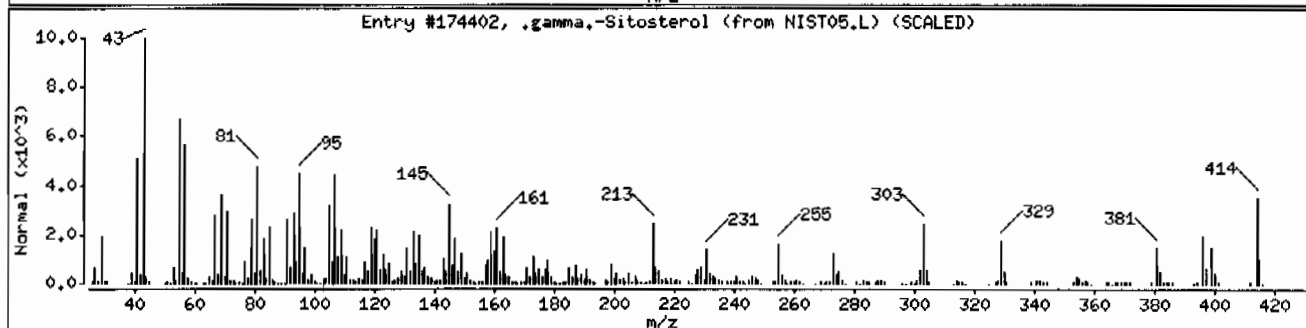
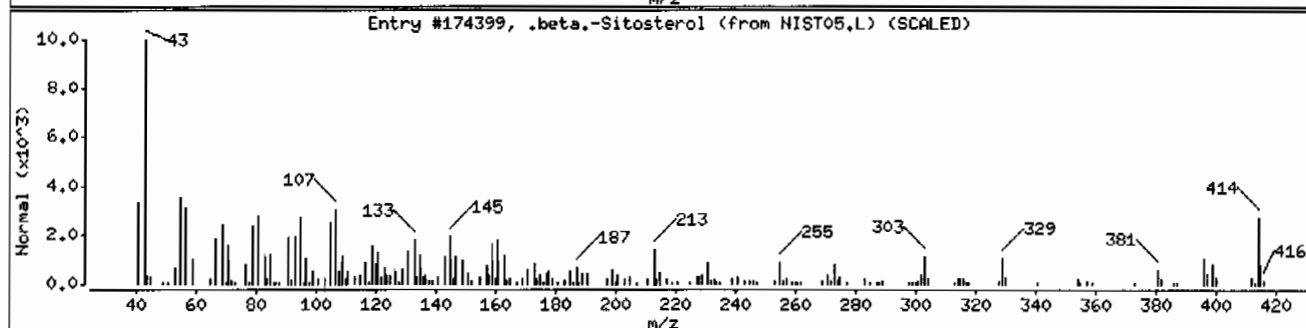
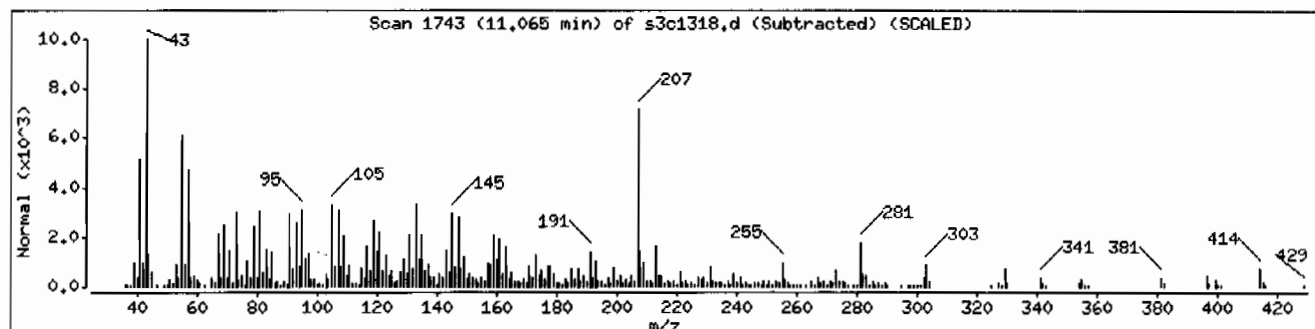
Volume Injected (uL): 0.5

Operator: JLD1

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	174399	93	C29H50O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	91	C29H50O	414
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	35	C16H14N2O4	298



Date : 13-MAR-2010 16:36

Client ID: RE36-10-7404

Instrument: MSD3.i

Sample Info: 12481970041960459121SVMF111LANL

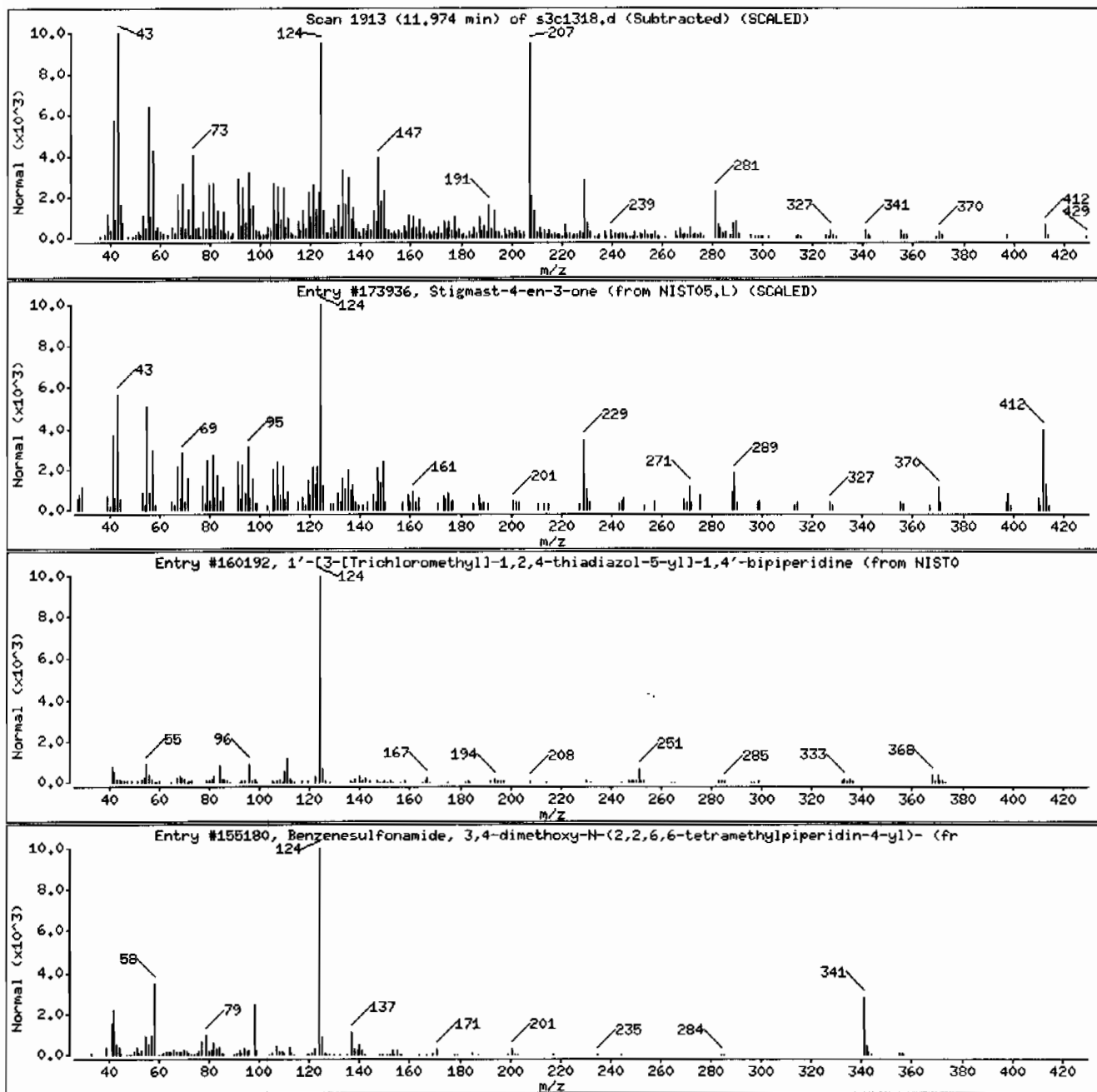
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	84	C29H48O	412
1'-[3-[Trichloromethyl]-1,2,4-thiadiazol	50350-57-7	NIST05.L	160192	25	C13H19Cl3N4S	368
Benzenesulfonamide, 3,4-dimethoxy-N-(2,2	1000297-50-1	NIST05.L	155180	25	C17H20N2O4S	356



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

SDG Number: 10-2121
Lab Sample ID: 248197001

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 17.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7405
Batch ID: 960459
Run Date: 03/13/2010 15:38
Prep Date: 03/03/2010 23:09
Data File: s3c1315.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	805	ug/kg	161	805
108-95-2	Phenol	U	805	ug/kg	161	805
95-57-8	2-Chlorophenol	U	805	ug/kg	161	805
106-46-7	1,4-Dichlorobenzene	U	805	ug/kg	161	805
621-64-7	N-Nitrosodipropylamine	U	805	ug/kg	161	805
59-50-7	4-Chloro-3-methylphenol	U	805	ug/kg	161	805
83-32-9	Acenaphthene	U	80.5	ug/kg	26.6	80.5
121-14-2	2,4-Dinitrotoluene	U	805	ug/kg	80.5	805
100-02-7	4-Nitrophenol	U	805	ug/kg	266	805
87-86-5	Pentachlorophenol	U	805	ug/kg	201	805
129-00-0	Pyrene	J	50.8	ug/kg	24.1	80.5
110-86-1	Pyridine	U	805	ug/kg	161	805
62-53-3	Aniline	U	805	ug/kg	241	805
111-44-4	bis(2-Chloroethyl) ether	U	805	ug/kg	161	805
541-73-1	1,3-Dichlorobenzene	U	805	ug/kg	161	805
100-51-6	Benzyl alcohol	U	805	ug/kg	241	805
95-50-1	1,2-Dichlorobenzene	U	805	ug/kg	161	805
108-60-1	bis(2-Chloroisopropyl)ether	U	805	ug/kg	161	805
95-48-7	o-Cresol	U	805	ug/kg	161	805
65794-96-9	m,p-Cresols	U	805	ug/kg	241	805
67-72-1	Hexachloroethane	U	805	ug/kg	161	805
98-95-3	Nitrobenzene	U	805	ug/kg	161	805
78-59-1	Isophorone	U	805	ug/kg	161	805
88-75-5	2-Nitrophenol	U	805	ug/kg	161	805
105-67-9	2,4-Dimethylphenol	U	805	ug/kg	282	805
111-91-1	bis(2-Chloroethoxy)methane	U	805	ug/kg	161	805
120-83-2	2,4-Dichlorophenol	U	805	ug/kg	161	805
65-85-0	Benzoic acid	U	1610	ug/kg	402	1610
91-20-3	Naphthalene	U	80.5	ug/kg	24.1	80.5
106-47-8	4-Chloroaniline	U	805	ug/kg	161	805
87-68-3	Hexachlorobutadiene	U	805	ug/kg	161	805
91-57-6	2-Methylnaphthalene	U	80.5	ug/kg	16.1	80.5
77-47-4	Hexachlorocyclopentadiene	U	805	ug/kg	161	805
88-06-2	2,4,6-Trichlorophenol	U	805	ug/kg	161	805
95-95-4	2,4,5-Trichlorophenol	U	805	ug/kg	161	805
91-58-7	2-Chloronaphthalene	U	80.5	ug/kg	26.6	80.5
88-74-4	2-Nitroaniline	U	805	ug/kg	161	805
99-09-2	<i>o</i> -Nitroaniline	U	805	ug/kg	161	805
	3-Nitroaniline					

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	% Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 15:38	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1315.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	805	ug/kg	161	805
606-20-2	2,6-Dinitrotoluene	U	805	ug/kg	80.5	805
208-96-8	Acenaphthylene	U	80.5	ug/kg	24.1	80.5
51-28-5	2,4-Dinitrophenol	U	1610	ug/kg	306	1610
132-64-9	Dibenzofuran	U	805	ug/kg	161	805
84-66-2	Diethylphthalate	U	805	ug/kg	161	805
86-73-7	Fluorene	U	80.5	ug/kg	24.1	80.5
7005-72-3	4-Chlorophenylphenylether	U	805	ug/kg	161	805
534-52-1	2-Methyl-4,6-dinitrophenol	U	805	ug/kg	161	805
100-01-6	4-Nitroaniline	U	805	ug/kg	241	805
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	805	ug/kg	161	805
122-66-7	Azobenzene	U	805	ug/kg	161	805
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	805	ug/kg	161	805
118-74-1	Hexachlorobenzene	U	805	ug/kg	161	805
85-01-8	Phenanthrene	J	27.2	ug/kg	24.1	80.5
120-12-7	Anthracene	U	80.5	ug/kg	16.1	80.5
84-74-2	Di-n-butylphthalate	U	805	ug/kg	161	805
206-44-0	Fluoranthene	J	49.7	ug/kg	24.1	80.5
85-68-7	Butylbenzylphthalate	U	805	ug/kg	161	805
56-55-3	Benzo(a)anthracene	J	41.6	ug/kg	24.1	80.5
91-94-1	3,3'-Dichlorobenzidine	U	805	ug/kg	241	805
218-01-9	Chrysene	J	33.7	ug/kg	24.1	80.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	805	ug/kg	161	805
117-84-0	Di-n-octylphthalate	U	805	ug/kg	161	805
205-99-2	Benzo(b)fluoranthene	J	77.2	ug/kg	24.1	80.5
207-08-9	Benzo(k)fluoranthene	U	80.5	ug/kg	24.1	80.5
50-32-8	Benzo(a)pyrene	J	34.8	ug/kg	24.1	80.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	80.5	ug/kg	24.1	80.5
53-70-3	Dibenzo(a,h)anthracene	U	80.5	ug/kg	24.1	80.5
191-24-2	Benzo(ghi)perylene	U	80.5	ug/kg	24.1	80.5
120-82-1	1,2,4-Trichlorobenzene	U	805	ug/kg	161	805

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	559	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	7.78	443	ug/kg	90	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197001	Date Received: 02/26/2010 08:45	%Moisture: 17.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7405	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 15:38	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1315.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
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	478	ug/kg	95	NJ
6971-40-0	17-Pentatriacontene	8.01	999	ug/kg	92	NJ
55255-85-1	Cyclopentane, 1,1'-[3-(2-cyclopentylethy	8.44	1450	ug/kg	87	NJ
	Unknown	8.66	775	ug/kg		J
112-95-8	Eicosane	8.93	1100	ug/kg	95	NJ
	Unknown	9.67	2080	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	720	ug/kg	91	NJ
	Unknown	11.46	855	ug/kg		J

Data File: /chem/MSD3.i/s031310.b/s3c1315.d
Report Date: 14-Mar-2010 16:02

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1315.d
Lab Smp Id: 248197001 Client Smp ID: RE36-10-7405
Inj Date : 13-MAR-2010 15:38
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197001|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_\$|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 15
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	17.50750	% 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	3.475	3.473	(1.000)	681090	40.0000		
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2560189	40.0000		
* 46 Acenaphthene-d10	164	5.566	5.570	(1.000)	1377678	40.0000		
* 67 Phenanthrene-d10	188	6.593	6.592	(1.000)	2318295	40.0000		
* 91 Chrysene-d12	240	8.171	8.169	(1.000)	1435273	40.0000		
* 98 Perylene-d12	264	9.337	9.330	(1.000)	795277	40.0000		
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	422500	27.6033	2220	
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	484358	26.9353	2170	
\$ 20 Nitrobenzene-d5	82	3.828	3.837	(0.885)	210449	14.4393	1160	
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	479169	13.6706	1100	
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126	(1.100)	87421	27.6752	2230	
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	376756	16.9349	1360	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.465	7.463	(0.914)	26243	0.63145	50.8(a)
68 Phenanthrene	178	6.604	6.608	(1.002)	17753	0.33806	27.2(a)
76 Fluoranthene	202	7.326	7.324	(1.111)	29390	0.61786	49.7(a)
89 Benzo(a)anthracene	228	8.166	8.159	(0.999)	17241	0.51725	41.6(a)
92 Chrysene	228	8.182	8.185	(1.001)	14261	0.41844	33.7(a)
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.960)	19355	0.95883	77.2(a)
97 Benzo(a)pyrene	252	9.278	9.277	(0.994)	7489	0.43187	34.8(a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1315.d

Report Date: 03/14/2010 14:31

Lab. ID: 248197001

SampleType: SAMPLE

Injection Date: 13-MAR-2010 15:38

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197001|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	26811	3.21	3.26	80-120	100	()
93	4895	3.25	3.26	200-260	18	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	30814	3.83	3.72	80-120	100	(T)
42	25551	3.83	3.72	76-136	83	(T)

27	Benzoic acid		CAS#: 65-85-0			
105	1121	4.14	4.12	80-120	100	()
122	1154	4.14	4.12	55-115	103	()
77	831	4.14	4.12	29- 89	74	()

43	Dimethylphthalate		CAS#: 131-11-3			
163	249596	5.57	5.35	80-120	100	(T)
164	1376779	5.57	5.35	0- 40	552	(QT)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	178150	5.57	5.40	80-120	100	(T)
63	2141	5.57	5.40	49-109	1	(QT)

50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	178150	5.57	5.69	80-120	100	(T)
89	2960	5.57	5.69	48-108	2	(QT)
63	2141	5.57	5.69	21- 81	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
52 4-Nitrophenol		CAS#: 100-02-7				
139	342	5.71	5.63	80-120	100	(T)
109	576	5.65	5.63	39- 99	168	(Q)
65	227	5.74	5.63	60-120	67	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	520	6.12	5.98	80-120	100	(T)
105	2353	6.13	5.98	14- 74	452	(QT)
51	1160	6.12	5.98	40-100	223	(QT)

56 p-Nitroaniline		CAS#: 100-01-6				
138	100	5.92	5.97	80-120	100	()
108	271	5.96	5.97	35- 95	271	(Q)
92	240	5.80	5.97	5- 65	240	(QT)

68 Phenanthrene		CAS#: 85-01-8				
178	17753	6.60	6.61	80-120	100	()
179	4100	6.60	6.61	0- 46	23	()
176	3251	6.60	6.61	0- 49	18	()

69 Anthracene		CAS#: 120-12-7				
178	17753	6.60	6.64	80-120	100	()
179	4100	6.60	6.64	0- 46	23	()
176	3251	6.60	6.64	0- 49	18	()

76 Fluoranthene		CAS#: 206-44-0				
202	29390	7.33	7.32	80-120	100	()
203	4871	7.33	7.32	0- 47	17	()
101	4205	7.33	7.32	0- 43	14	()

79 Pyrene		CAS#: 129-00-0				
202	26243	7.47	7.46	80-120	100	()
200	5766	7.47	7.46	0- 51	22	()
101	4641	7.46	7.46	0- 46	18	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	17241	8.17	8.16	80-120	100	()
226	3504	8.17	8.16	0- 57	20	()
229	5838	8.17	8.16	0- 50	34	()

92 Chrysene		CAS#: 218-01-9				
228	14261	8.18	8.19	80-120	100	()
229	4101	8.18	8.19	0- 50	29	()
226	5132	8.18	8.19	0- 59	36	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	19355	8.97	8.97	80-120	100	()
253	4290	8.97	8.97	0- 52	22	()
125	6576	8.97	8.96	0- 44	34	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
96 Benzo(k)fluoranthene			CAS#: 207-08-9			
252	19445	8.97	8.99	80-120	100	()
253	4290	8.97	8.99	0- 52	22	()
125	6732	8.97	8.99	0- 48	35	()

97 Benzo(a)pyrene			CAS#: 50-32-8			
252	7489	9.28	9.28	80-120	100	()
253	1638	9.28	9.28	0- 52	22	()
125	1695	9.28	9.28	0- 48	23	()

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD3.i/s031310.b/s3c1315.d
 Report Date: 14-Mar-2010 16:02

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1315.d
 Lab Smp Id: 248197001 Client Smp ID: RE36-10-7405
 Inj Date : 13-MAR-2010 15:38
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |248197001|960459|2|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 15
 Dil Factor: 2.00000
 Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	17.50750	% moisture

Cpnd Variable Local Compound Variable

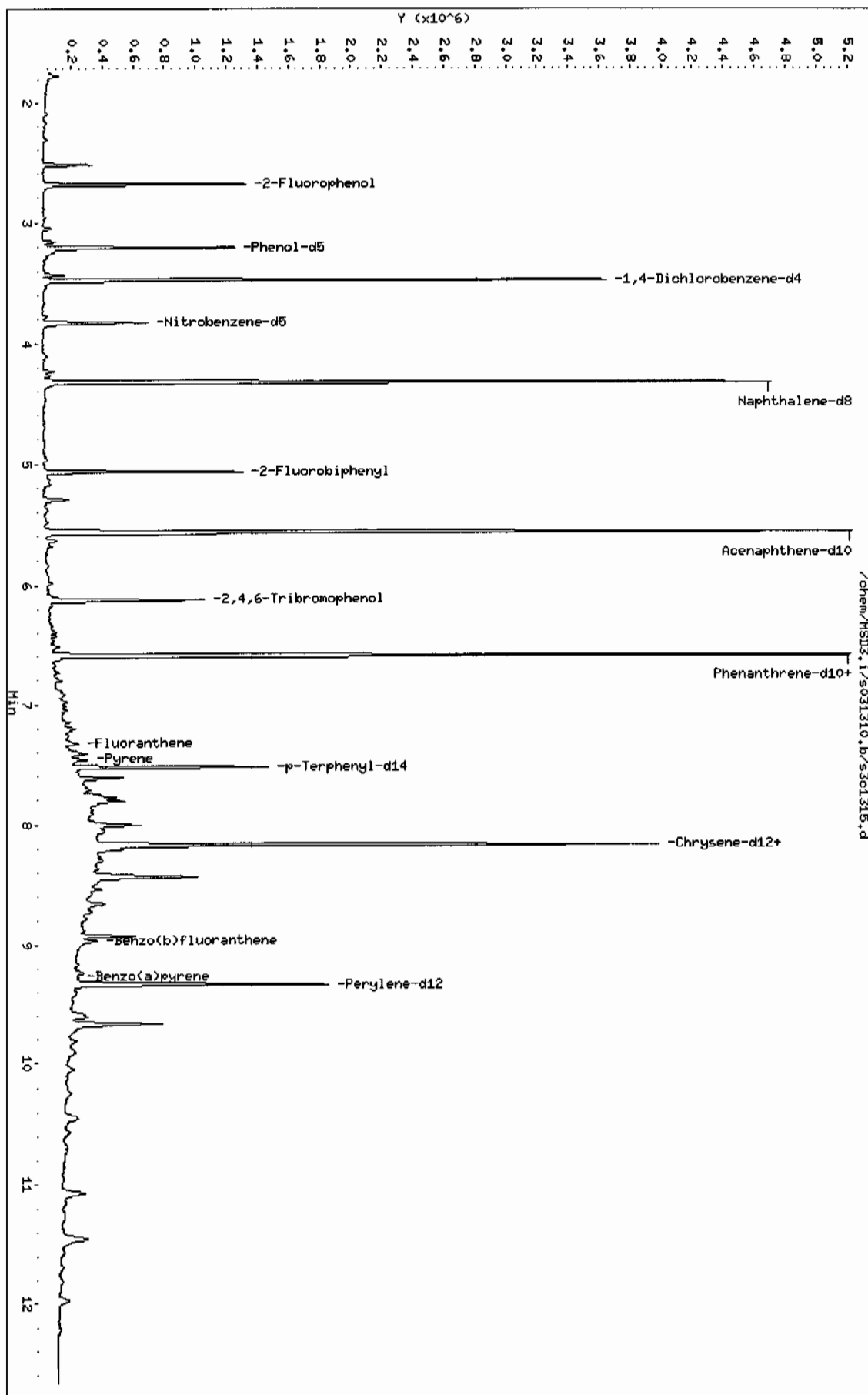
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.171	5728763	40.000
* 98 Perylene-d12	9.337	3099445	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
7.615	994246	6.94213487	559	0		0	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
7.775	788548	5.50588626	443	90	NIST05.L	112657	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1235-74-1		
7.802	851310	5.94410968	478	95	NIST05.L	133620	91
17-Pentatriacontene					CAS #: 6971-40-0		
8.005	1778343	12.4169385	999	92	NIST05.L	183898	91
Cyclopentane, 1,1'-(3-(2-cyclopentylethy					CAS #: 55255-85-1		
8.439	2587083	18.0638116	1450	87	NIST05.L	127513	91
Unknown					CAS #:		
8.658	1378135	9.62256741	774	0		0	91
Eicosane					CAS #: 112-95-8		
8.925	1059659	13.6754690	1100	95	NIST05.L	113490	98
Unknown					CAS #:		
9.669	2002671	25.8455412	2080	0		0	98
.gamma.-Sitosterol					CAS #: 83-47-6		
11.070	693503	8.95002236	720	91	NIST05.L	174402	98
Unknown					CAS #:		
11.455	823241	10.6243605	855	0		0	98

Data File: /chem/MSD3.i/s031310.b/s031315.d
 Date: 13-MAR-2010 15:38
 Client ID: RE36-10-7405
 Sample Info: 12481970011960459121SVHF11.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 12481970011960459121SVHF111LANL

Volume Injected (uL): 0.5

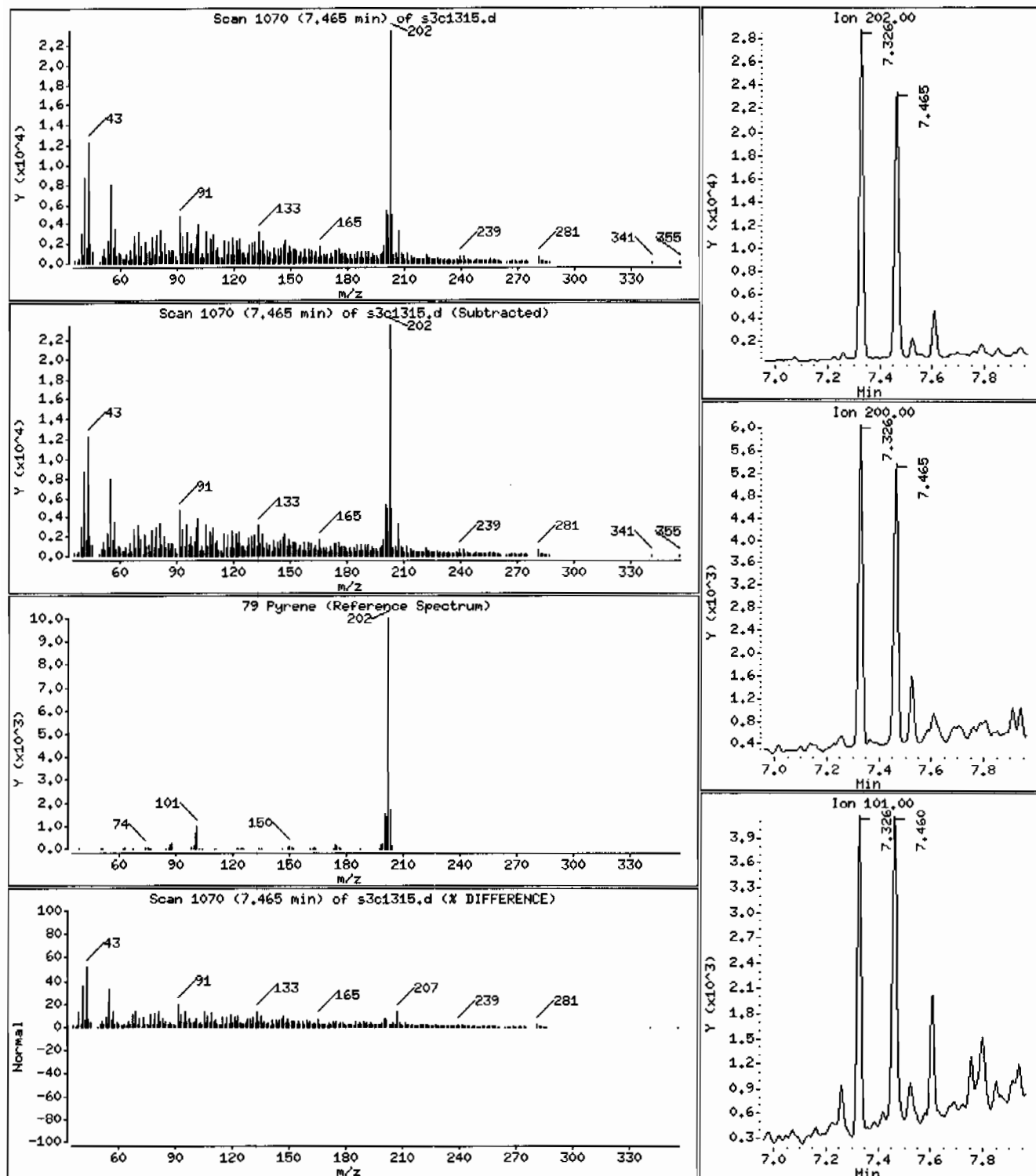
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 50.8 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: HSD3.i

Sample Info: I2481970011960459121SVHF11ILANL

Volume Injected (uL): 0.5

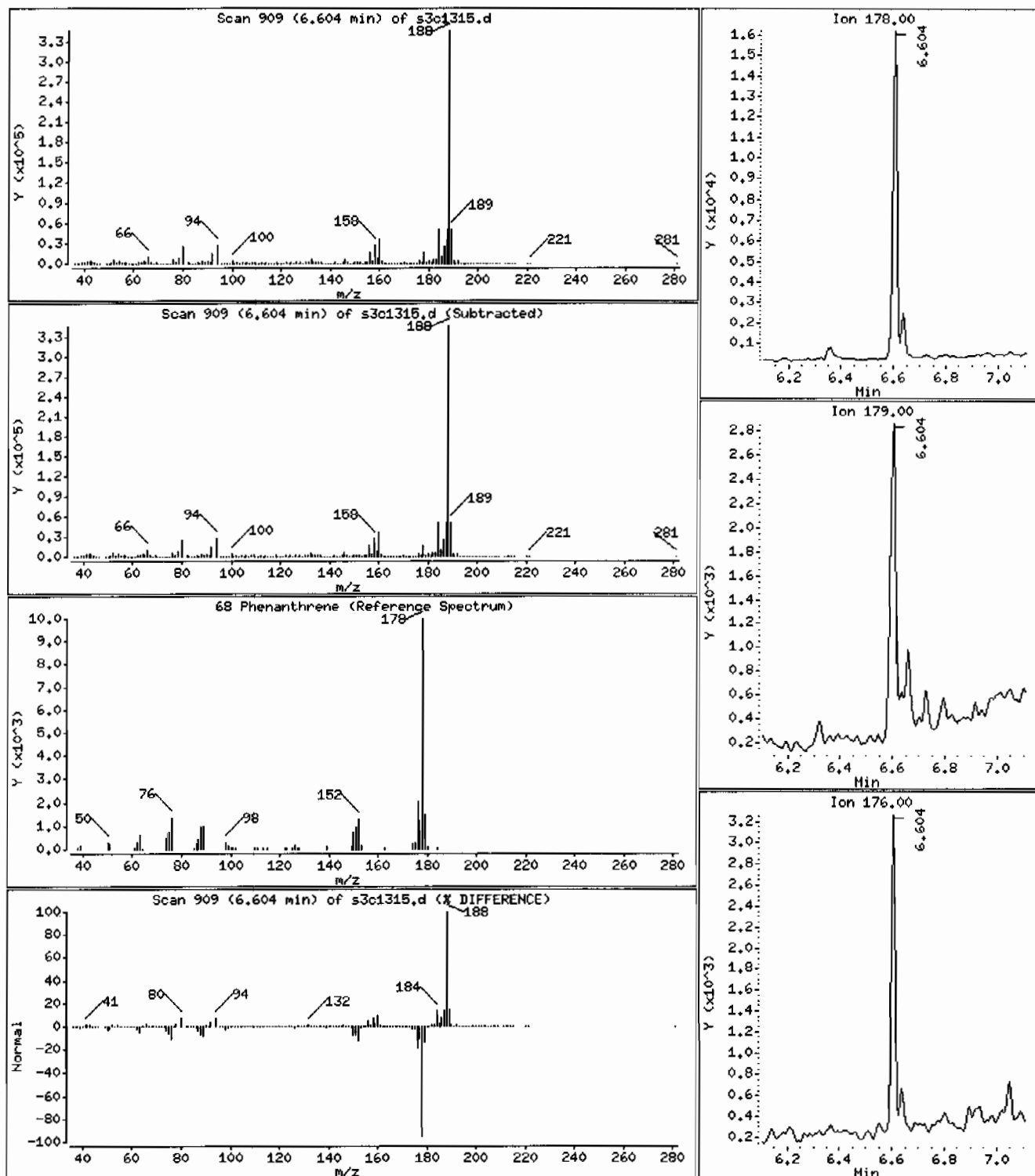
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 27.2 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001/960489121/SVMF11/LANL

Volume Injected (uL): 0.5

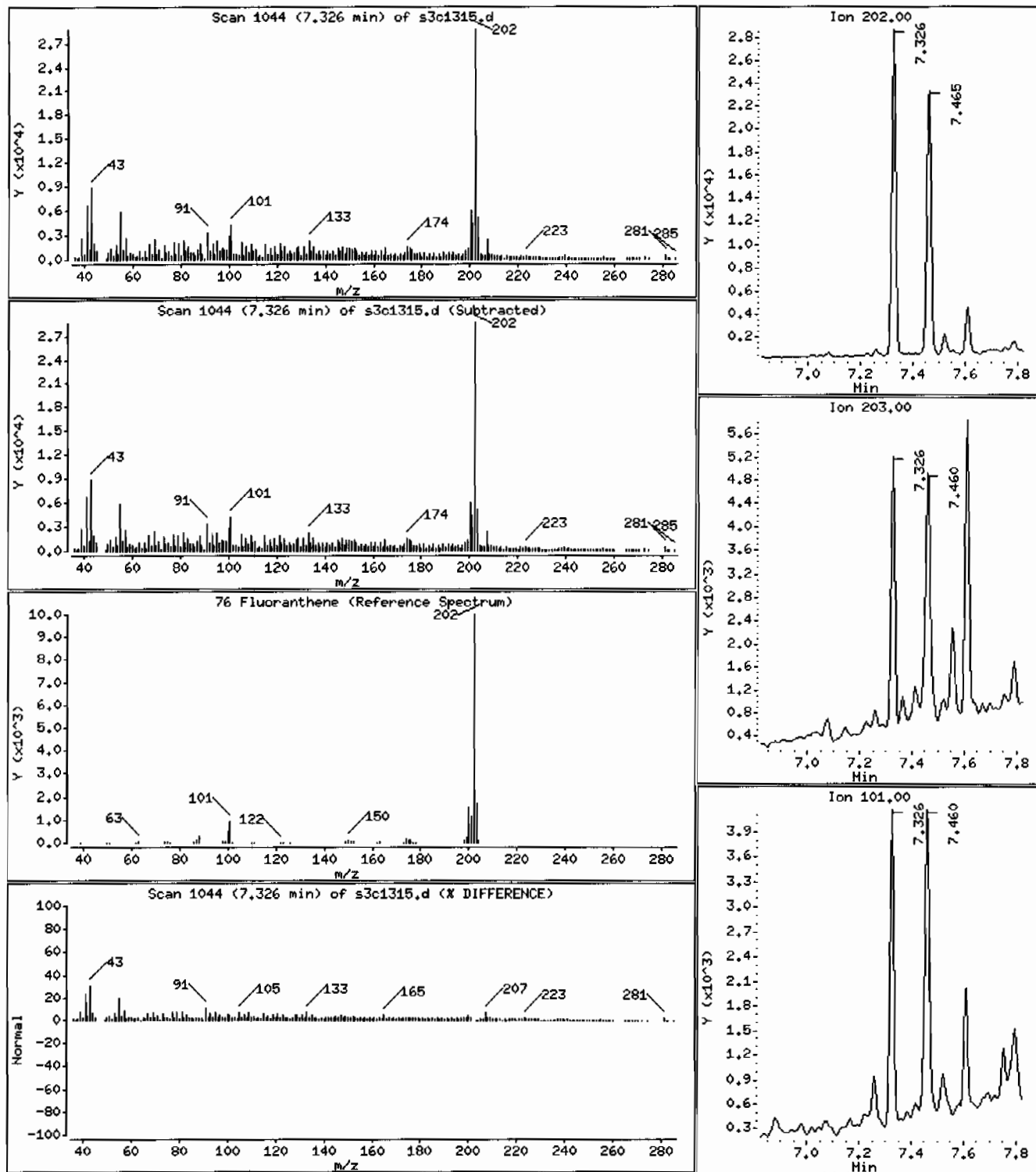
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 49.7 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 124819700196045912ISVHF111LANL

Volume Injected (uL): 0.5

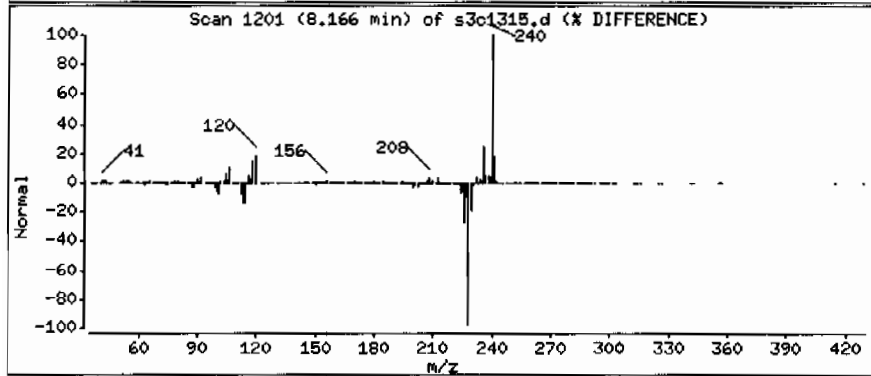
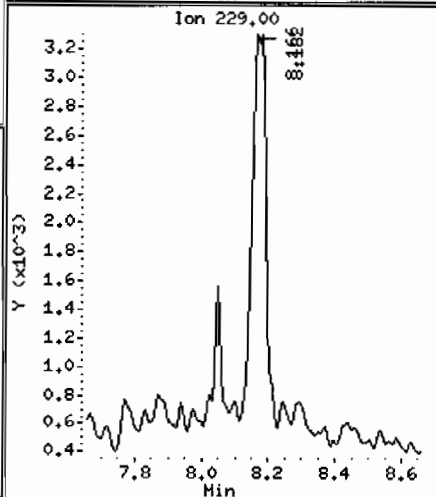
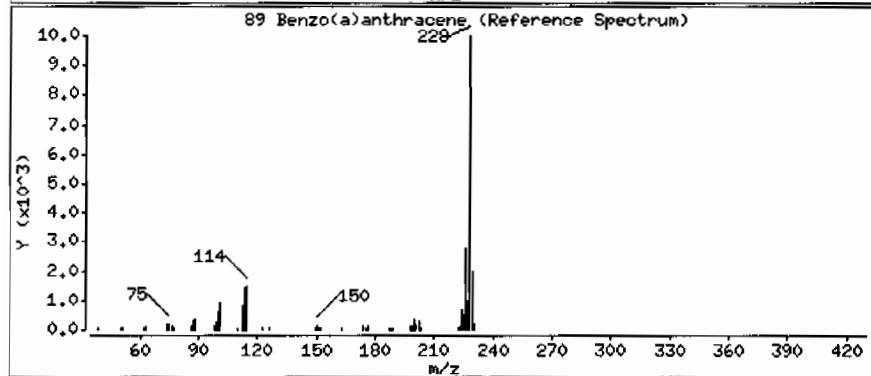
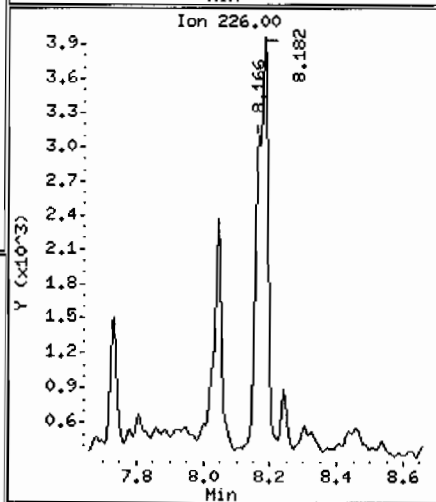
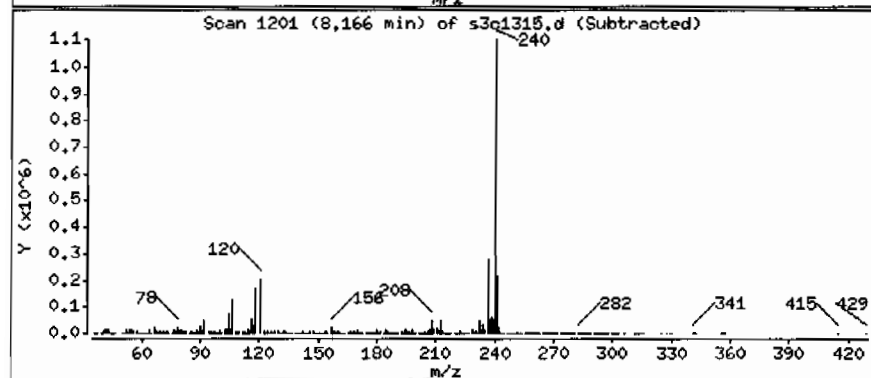
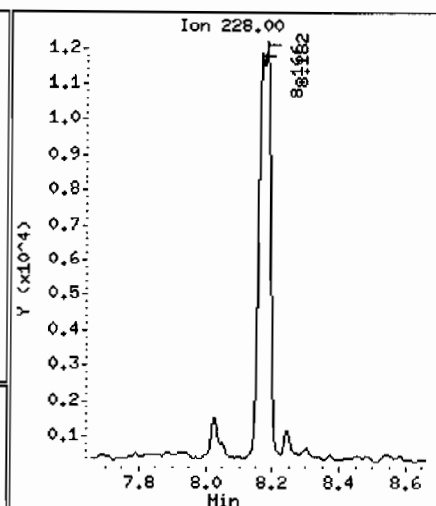
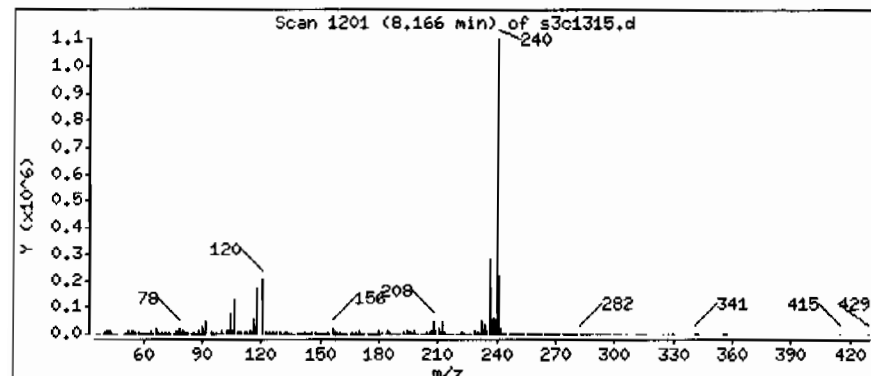
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 41.6 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.1

Sample Info: 1248197001|96045912|SVHF11|LANL

Volume Injected (uL): 0.5

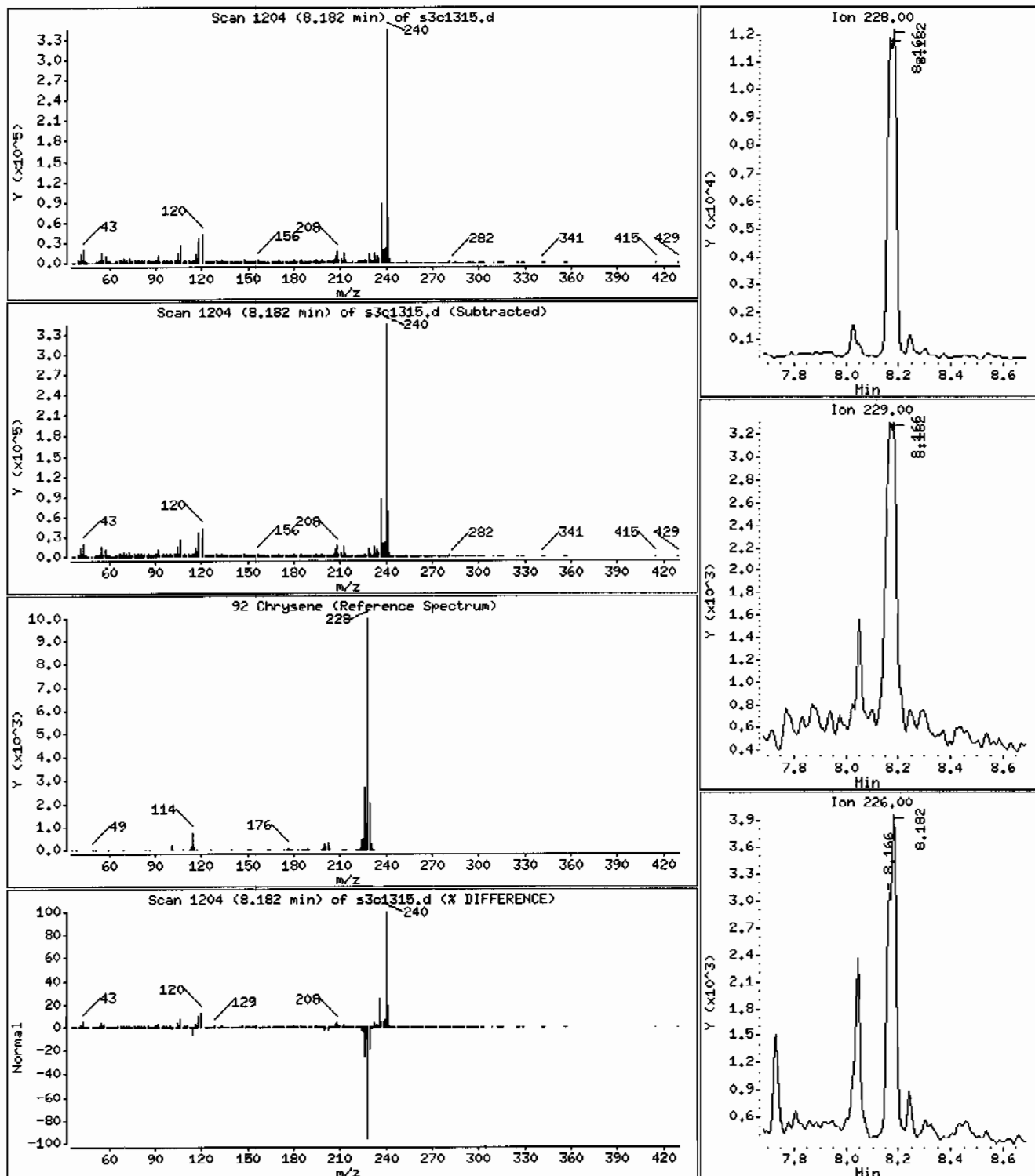
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 33.7 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: HSD3.i

Sample Info: 12481970011960459121SVMF11ILANL

Volume Injected (uL): 0.5

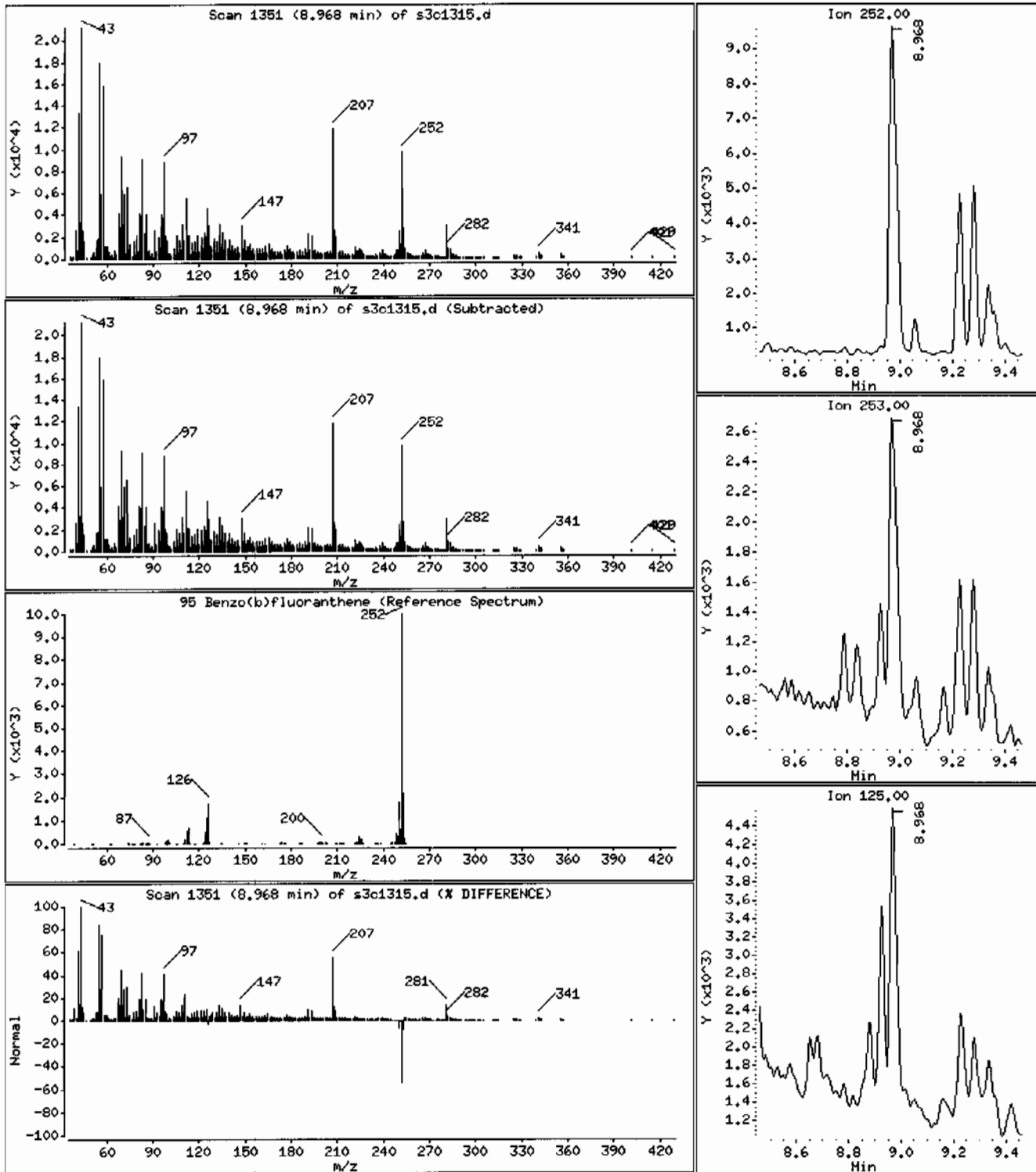
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 77.2 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001196045912ISVMF111LANL

Volume Injected (uL): 0.5

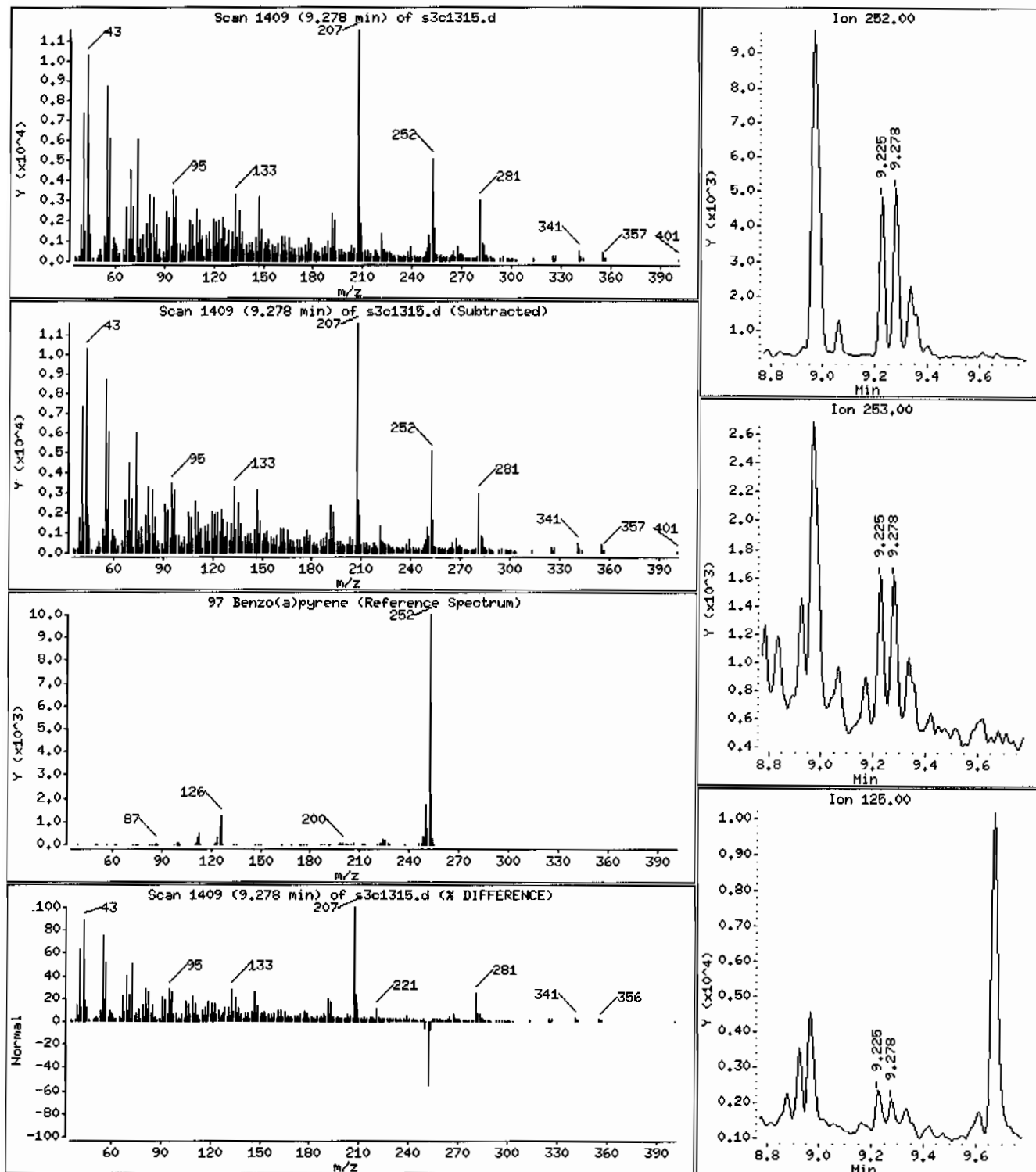
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 34.8 ug/Kg



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001196045912ISVHF11ILANL

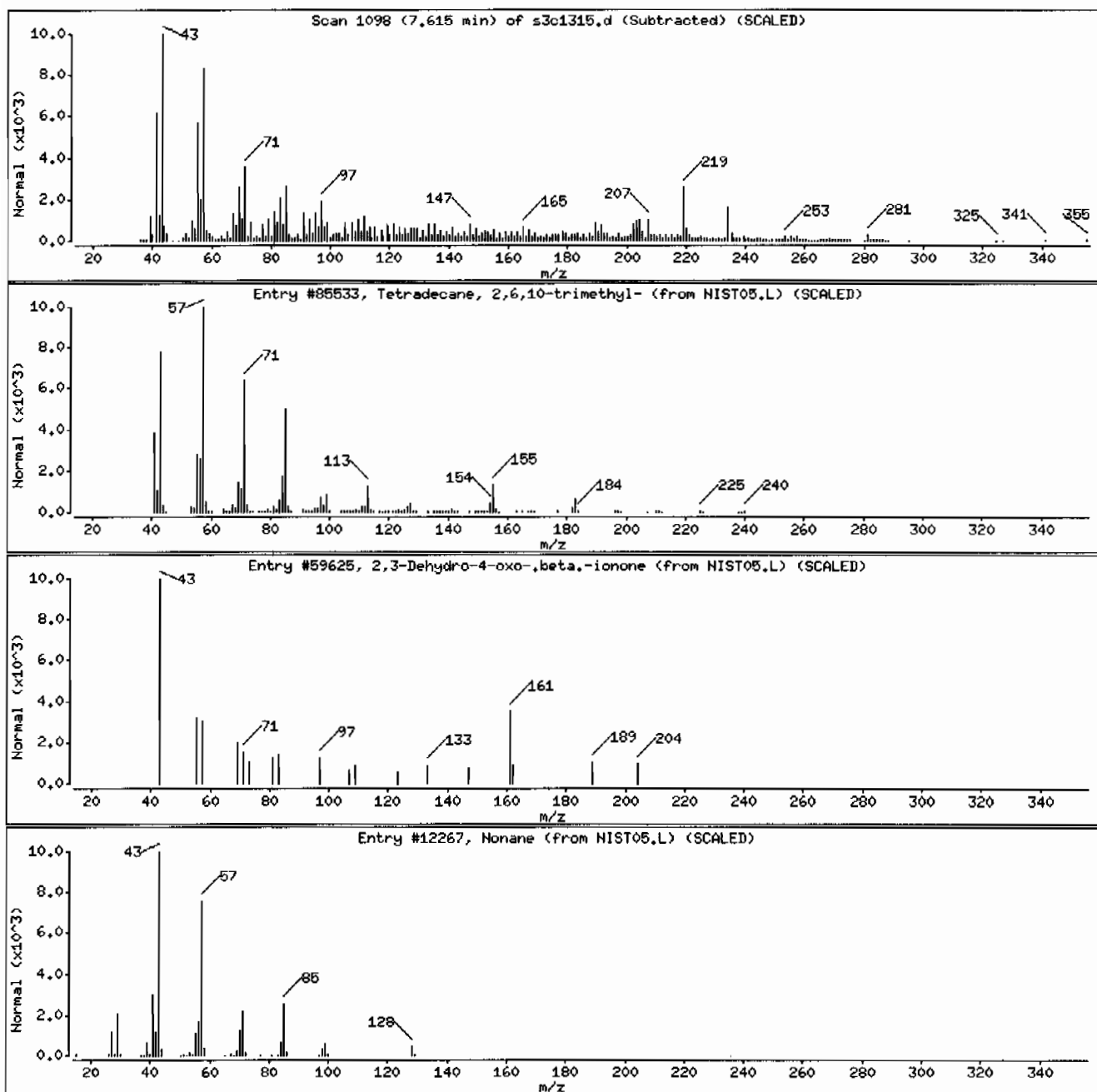
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetradecane, 2,6,10-trimethyl-	14905-56-7	NIST05.L	85533	25	C17H36	240
2,3-Dehydro-4-oxo-.beta.-ionone	77503-87-8	NIST05.L	59625	25	C13H16O2	204
Nonane	111-84-2	NIST05.L	12267	25	C9H20	128



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 12481970011960459121SVHF111LANL

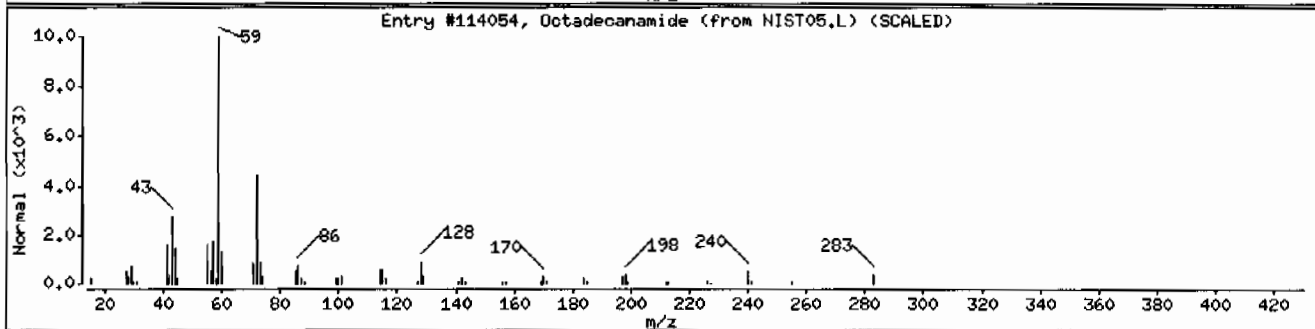
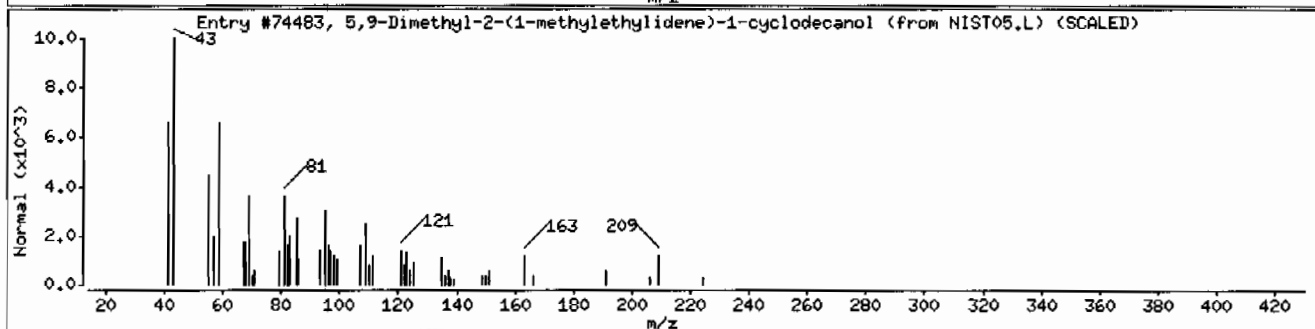
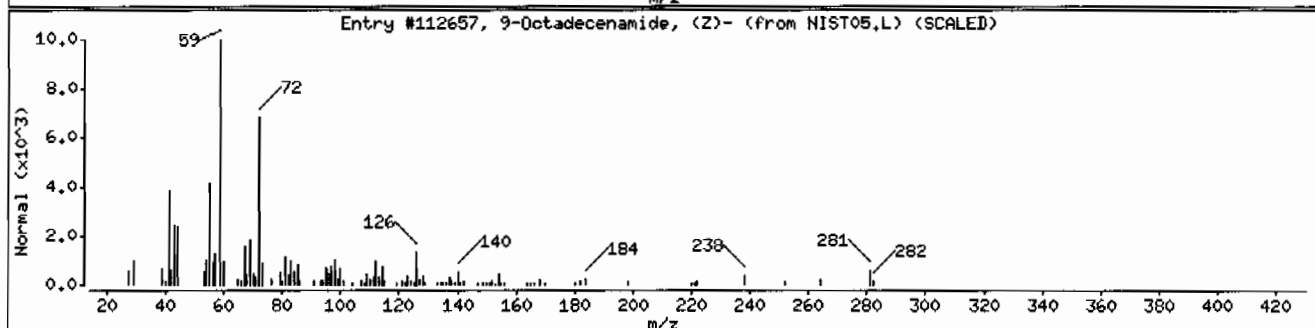
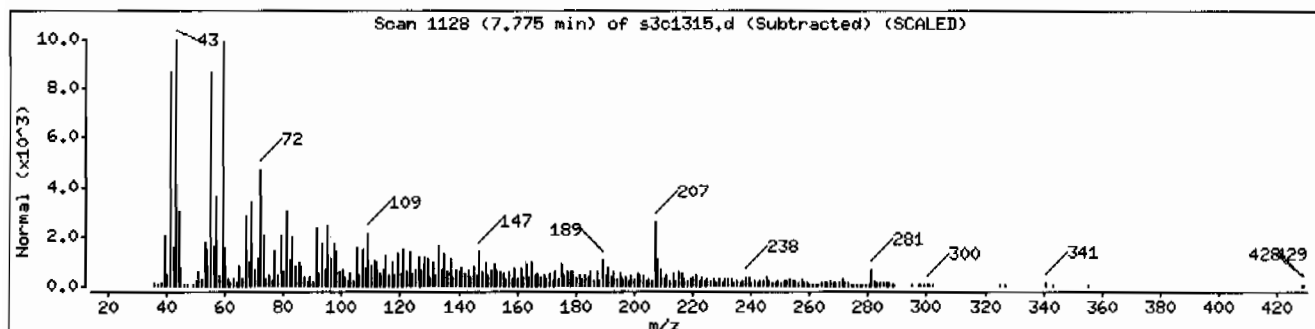
Volume Injected (UL): 0.5

Operator: JLD1

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	90	C18H35NO	281
5,9-Dimethyl-2-(1-methylethylidene)-1-cy	69239-72-1	NIST05.L	74483	55	C15H28O	224
Octadecanamide	124-26-5	NIST05.L	114054	55	C18H37NO	283



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 12481970011960459121SVHF111LANL

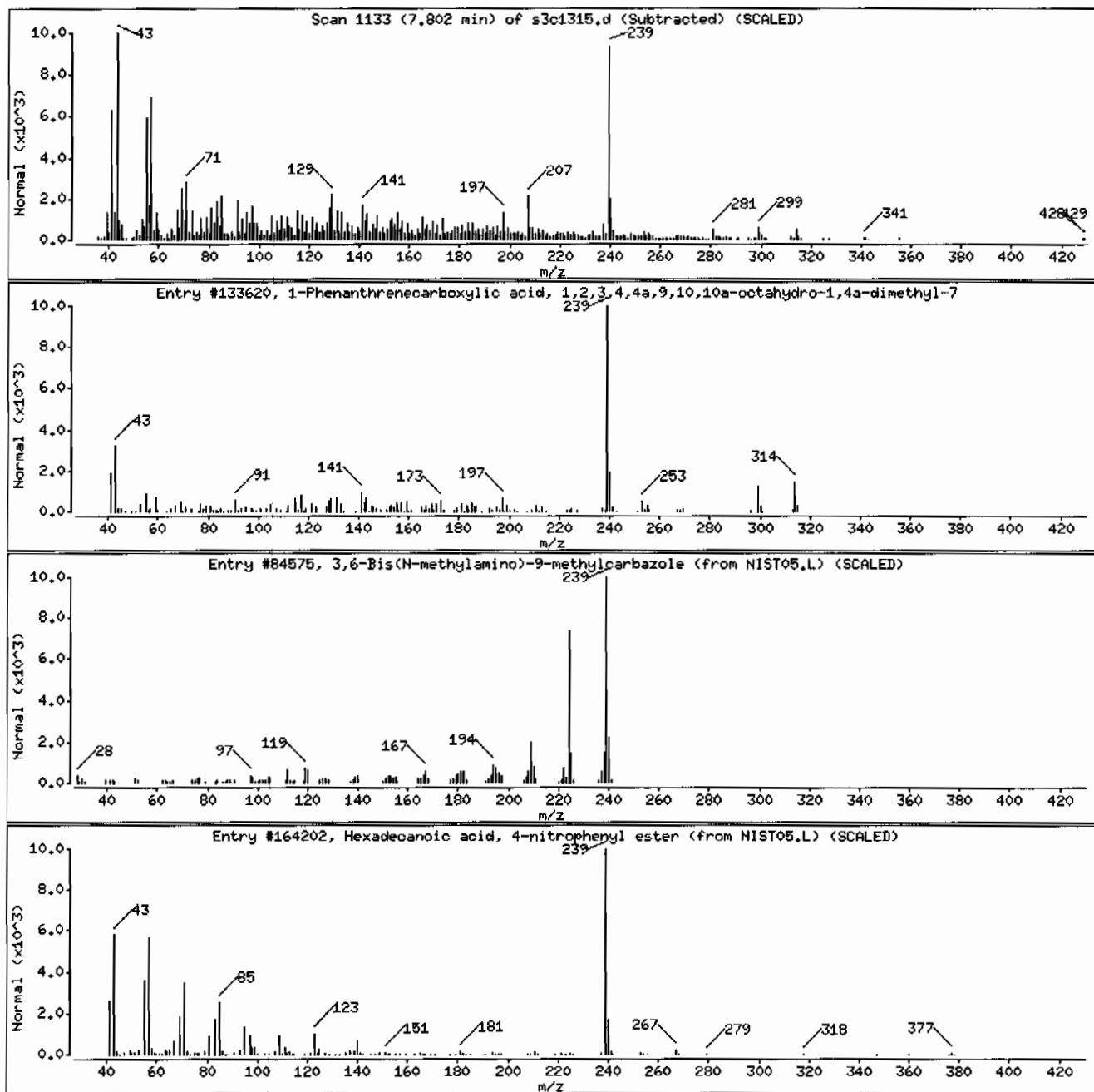
Volume Injected (uL): 0.5

Operator: JLD1

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	133620	95	C21H30O2	314
3,6-Bis(N-methylamino)-9-methylcarbazole	98786-00-6	NIST05.L	84575	60	C15H17N3	239
Hexadecanoic acid, 4-nitrophenyl ester	1492-30-4	NIST05.L	164202	50	C22H35NO4	377



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: HSD3.i

Sample Info: 12481970011960489121SVHF111LANL

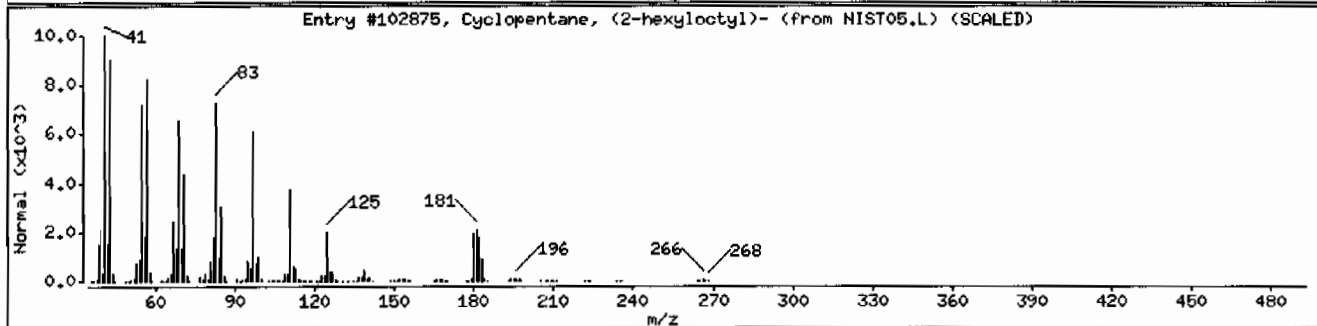
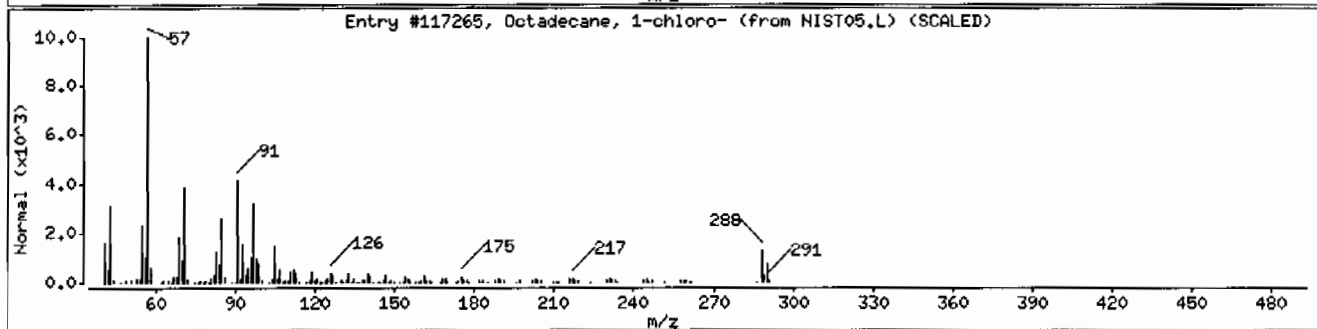
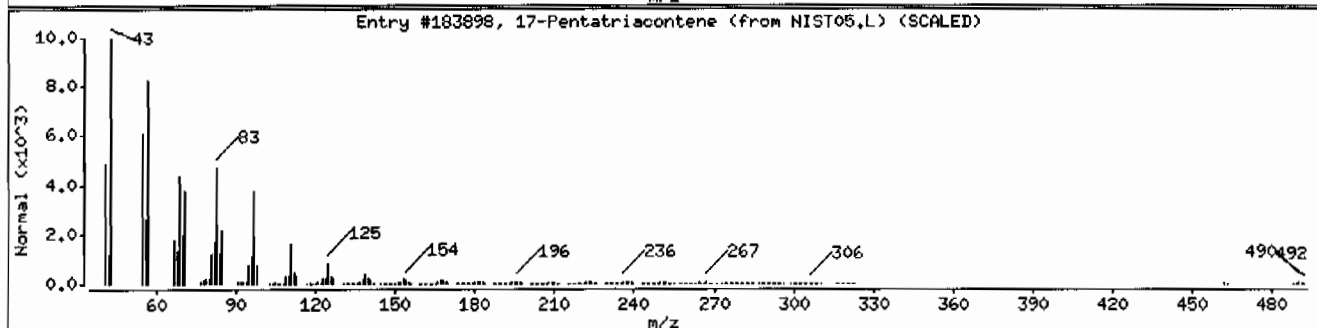
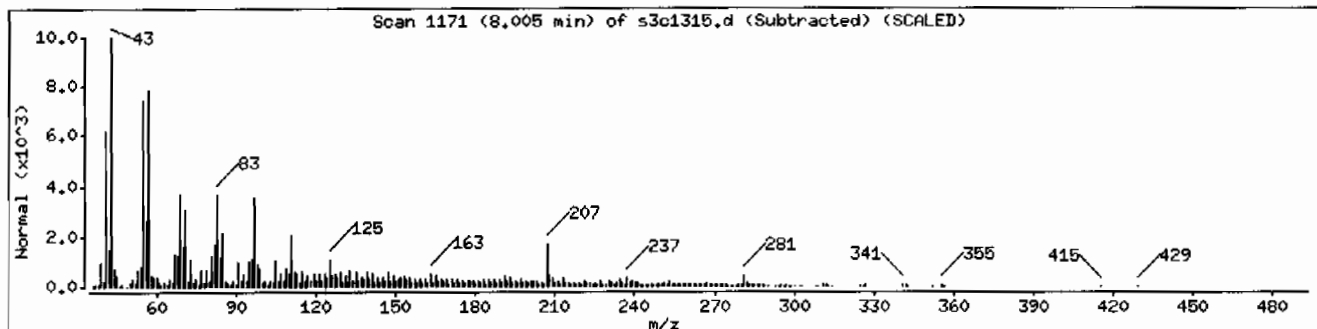
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
17-Pentatriacontene	6971-40-0	NIST05.L	183898	92	C35H70	491
Octadecane, 1-chloro-	3386-33-2	NIST05.L	117265	89	C18H37Cl	288
Cyclopentane, (2-hexyloctyl)-	55044-77-4	NIST05.L	102875	78	C19H38	266



Date: 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001960459121SVHF111LANL

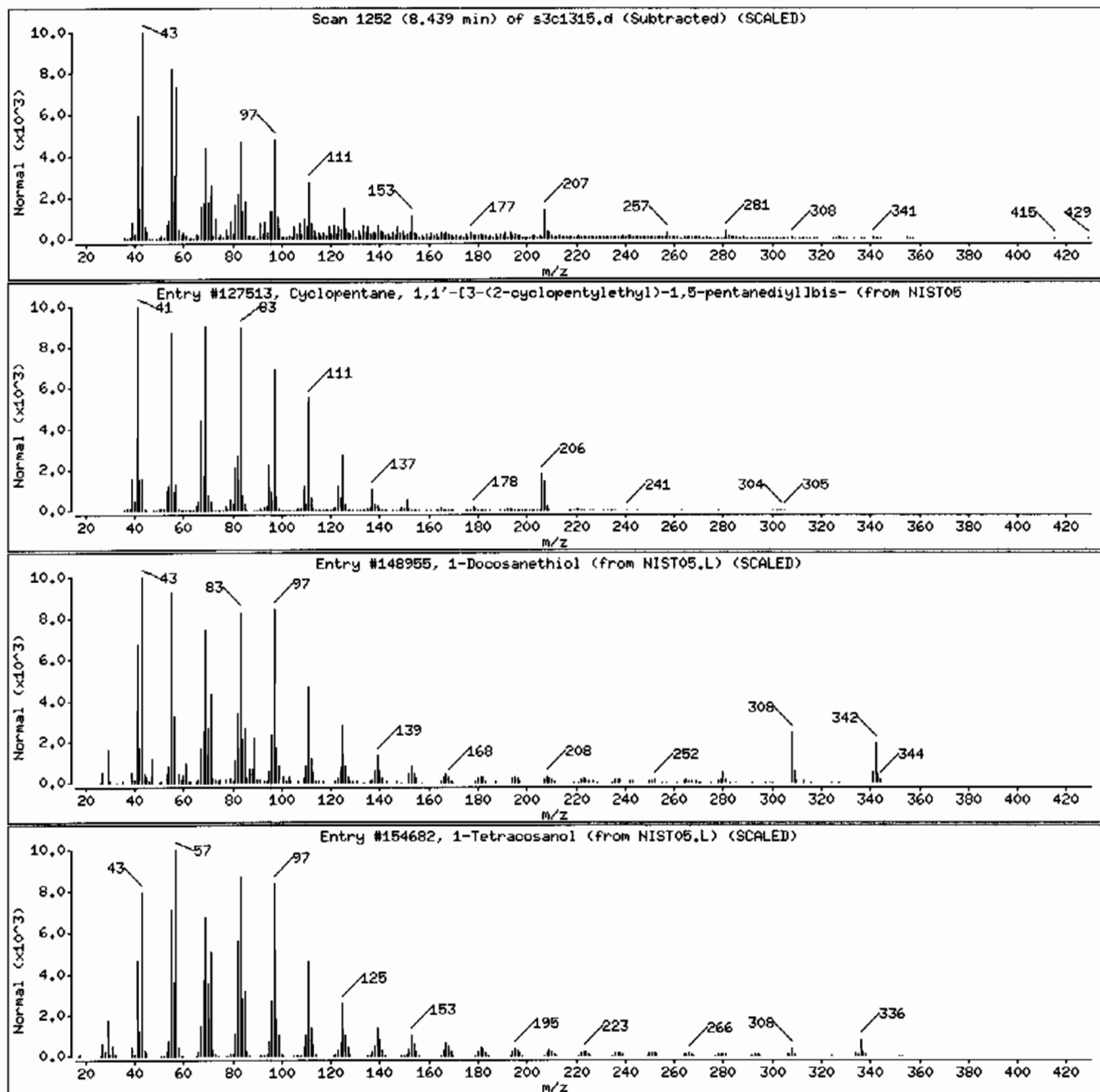
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, 1,1'-[3-(2-cyclopentylethyl	55255-85-1	NIST05.L	127513	87	C22H40	304
1-Docosanethiol	7773-83-3	NIST05.L	148955	76	C22H46S	342
1-Tetracosanol	506-51-4	NIST05.L	154682	70	C24H50O	354



Date: 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3,i

Sample Info: 1248197001960459121SVHF111LANL

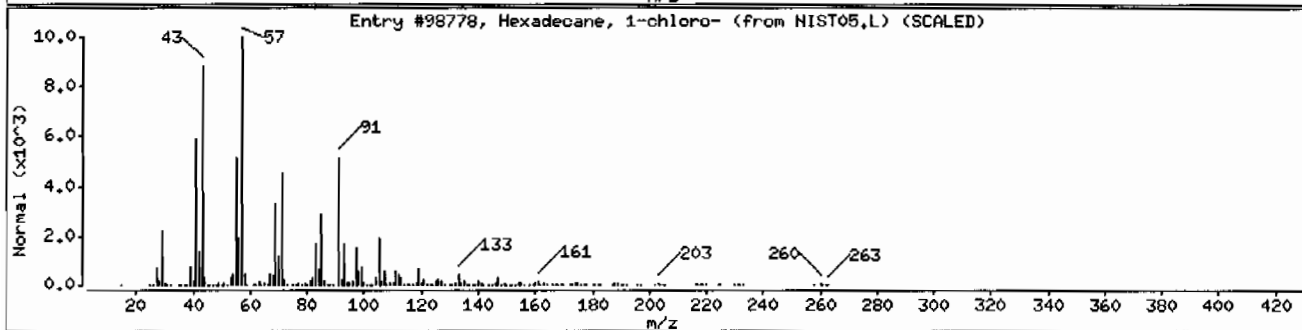
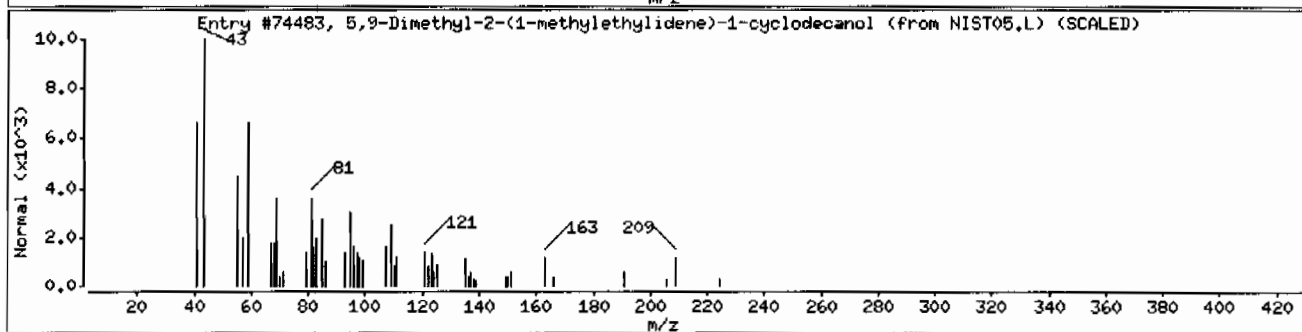
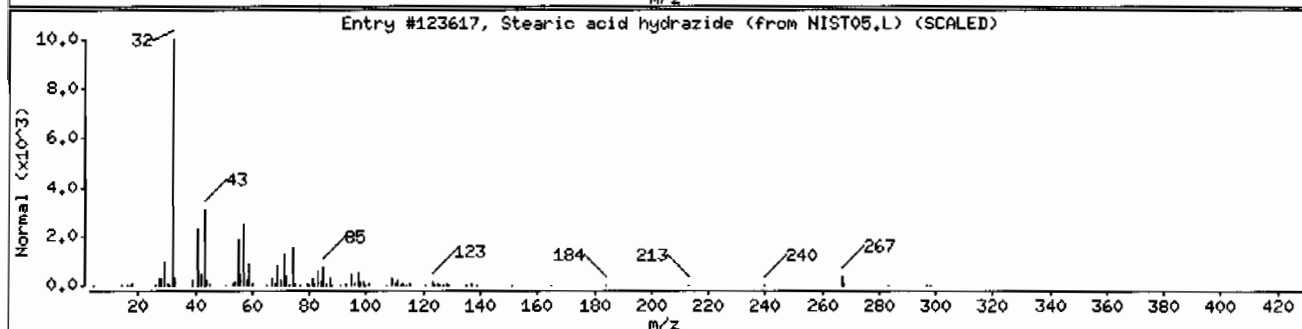
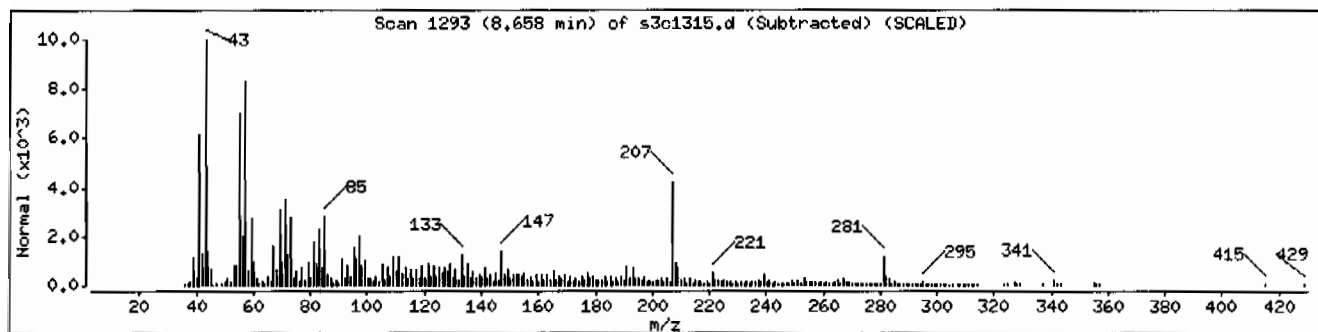
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Stearic acid hydrazide	4130-54-5	NIST05.L	123617	70	C18H38N2O	298
5,9-Dimethyl-2-(1-methylethylidene)-1-cy	69239-72-1	NIST05.L	74483	56	C15H28O	224
Hexadecane, 1-chloro-	4860-03-1	NIST05.L	98778	44	C16H33Cl	260



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001196045912ISVMF11ILANL

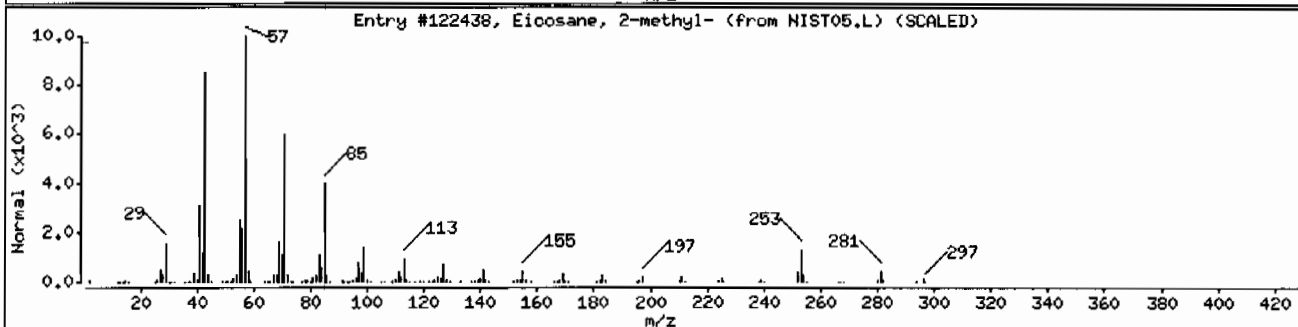
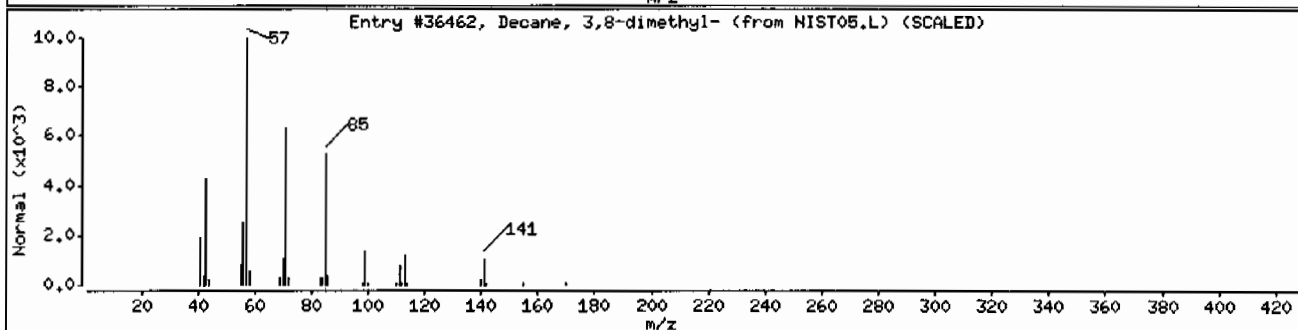
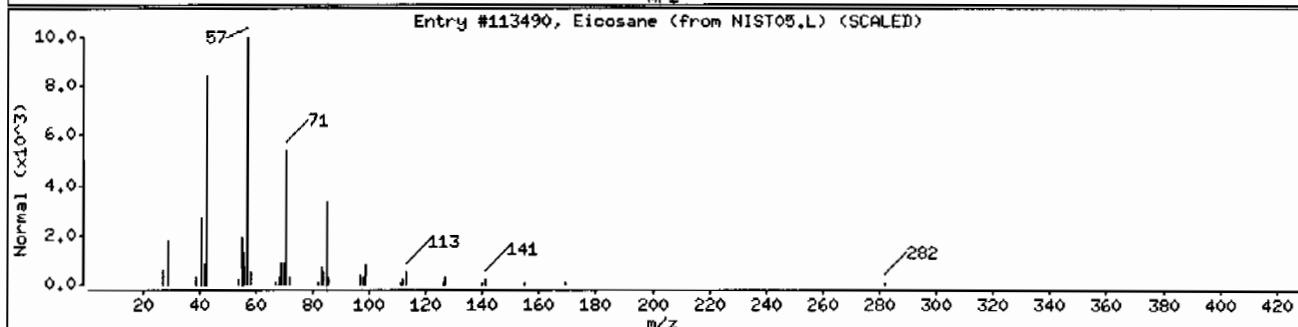
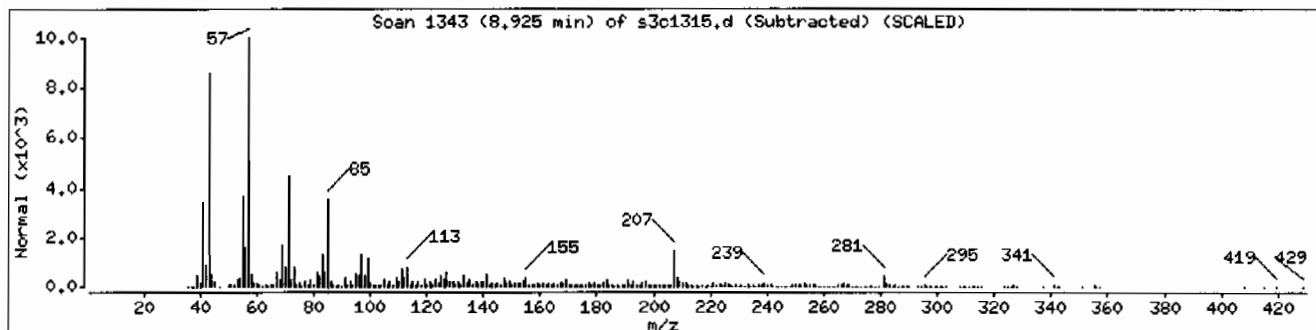
Volume Injected (uL): 0.5

Operator: JLD1

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	95	C ₂₀ H ₄₂	282
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	90	C ₁₂ H ₂₆	170
Eicosane, 2-methyl-	1560-84-5	NIST05.L	122438	89	C ₂₁ H ₄₄	296



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 124819700196045912ISVHF11ILANL

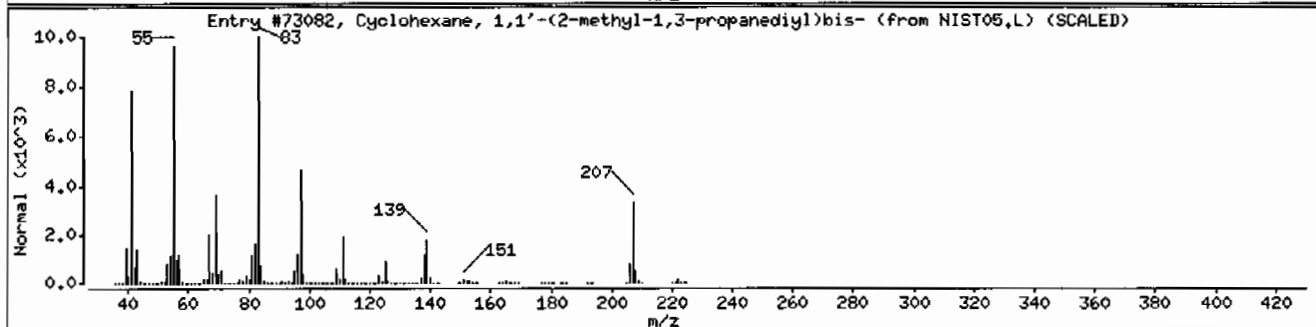
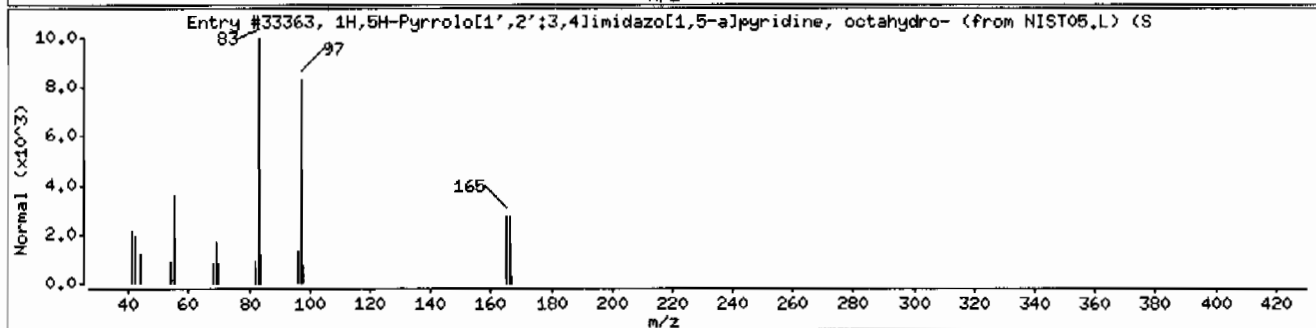
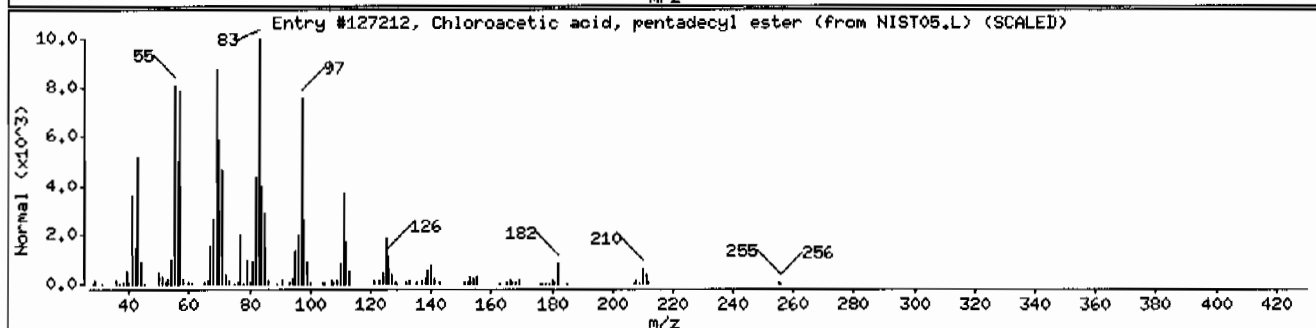
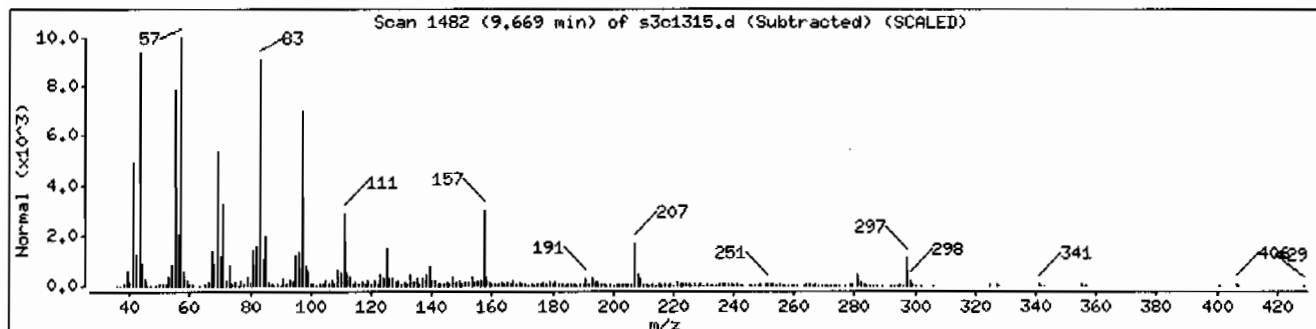
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Chloroacetic acid, pentadecyl ester	70301-47-2	NIST05.L	127212	64	C17H33ClO2	304
1H,5H-Pyrrolo[1',2':3,4]imidazo[1,5-a]py	54966-11-9	NIST05.L	33363	55	C10H18N2	166
Cyclohexane, 1,1'-(2-methyl-1,3-propanedi	2883-08-1	NIST05.L	73082	46	C16H30	222



Date : 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 1248197001960459121SVHF11ILANL

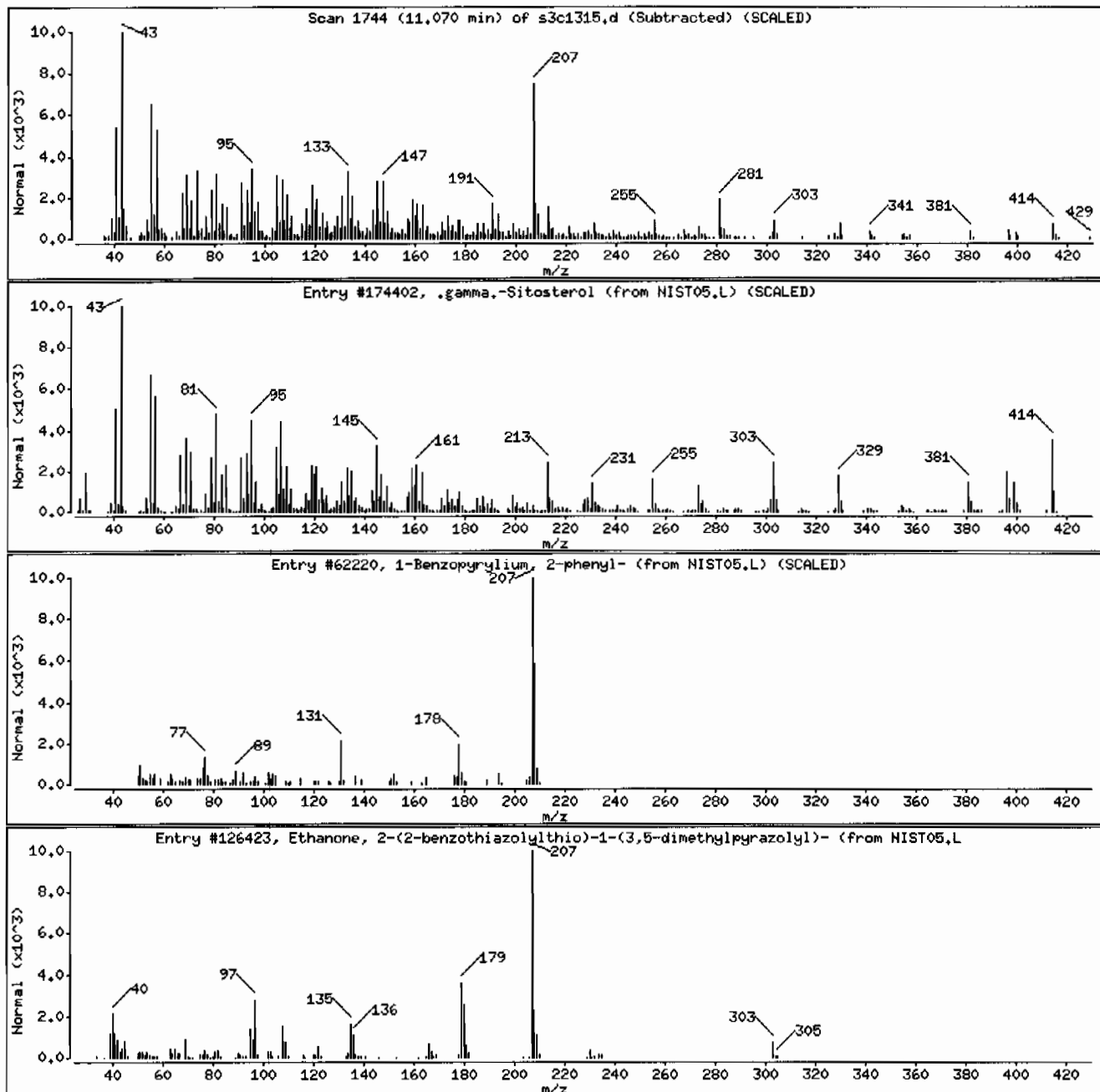
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	91	C29H50O	414
1-Benzopyrylium, 2-phenyl-	14051-63-7	NIST05.L	62220	46	C15H11O	207
Ethanone, 2-(2-benzothiazolylthio)-1-(3,	155670-84-1	NIST05.L	126423	38	C14H13N3OS2	303



Date: 13-MAR-2010 15:38

Client ID: RE36-10-7405

Instrument: MSD3.i

Sample Info: 12481970011960459121SVMF11ILANL

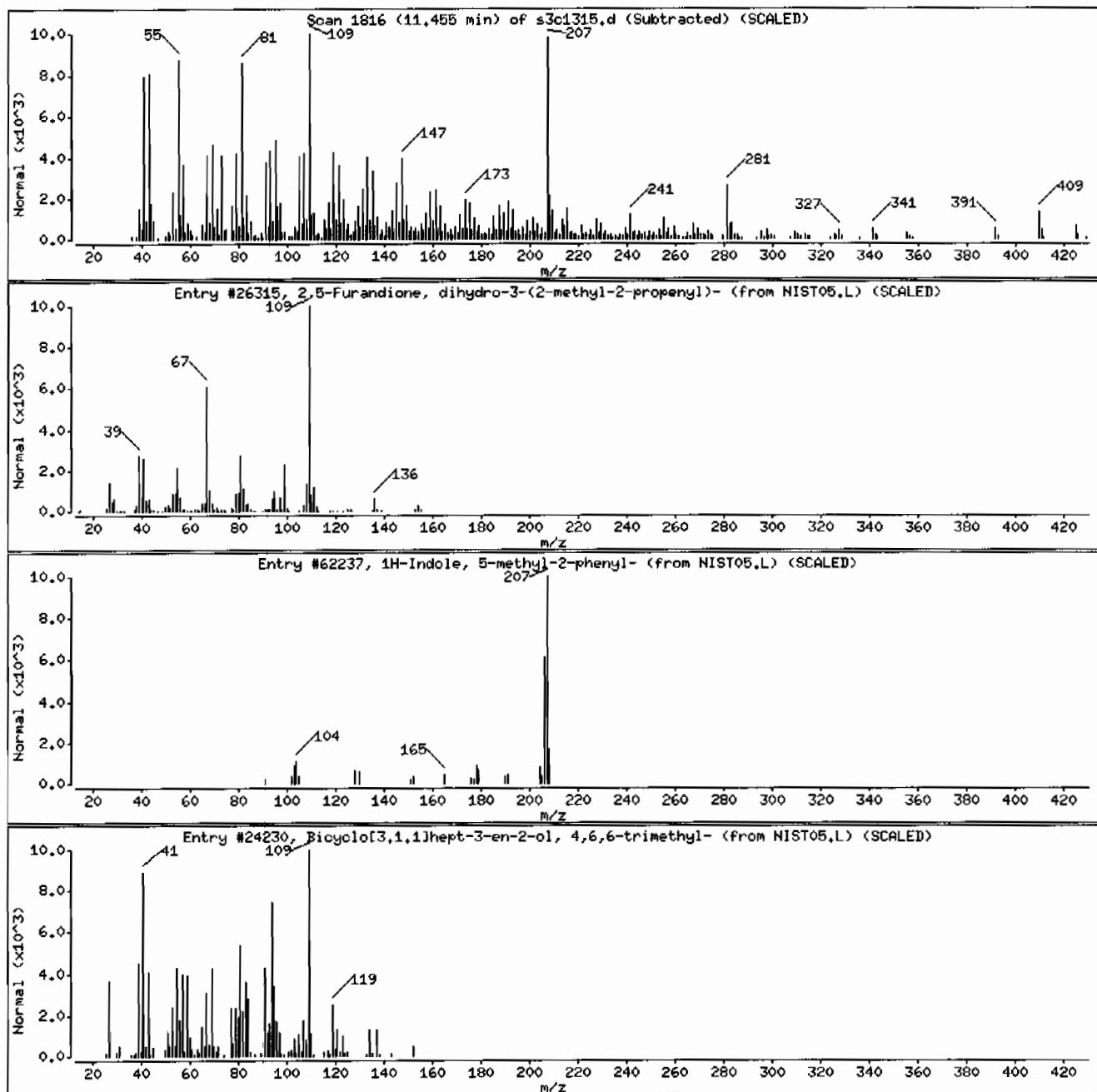
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,5-Furandione, dihydro-3-(2-methyl-2-pr	18908-20-8	NIST05.L	26315	44	C8H10O3	154
1H-Indole, 5-methyl-2-phenyl-	13228-36-9	NIST05.L	62237	25	C15H13N	207
Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trim	473-67-6	NIST05.L	24230	18	C10H16O	152



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

SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7406
Batch ID: 960459
Run Date: 03/13/2010 16:17
Prep Date: 03/03/2010 23:09
Data File: s3c1317.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	742	ug/kg	148	742
108-95-2	Phenol	U	742	ug/kg	148	742
95-57-8	2-Chlorophenol	U	742	ug/kg	148	742
106-46-7	1,4-Dichlorobenzene	U	742	ug/kg	148	742
621-64-7	N-Nitrosodipropylamine	U	742	ug/kg	148	742
59-50-7	4-Chloro-3-methylphenol	U	742	ug/kg	148	742
83-32-9	Acenaphthene	U	74.2	ug/kg	24.5	74.2
121-14-2	2,4-Dinitrotoluene	U	742	ug/kg	74.2	742
100-02-7	4-Nitrophenol	U	742	ug/kg	245	742
87-86-5	Pentachlorophenol	U	742	ug/kg	186	742
129-00-0	Pyrene	U	74.2	ug/kg	22.3	74.2
110-86-1	Pyridine	U	742	ug/kg	148	742
62-53-3	Aniline	U	742	ug/kg	223	742
111-44-4	bis(2-Chloroethyl) ether	U	742	ug/kg	148	742
541-73-1	1,3-Dichlorobenzene	U	742	ug/kg	148	742
100-51-6	Benzyl alcohol	U	742	ug/kg	223	742
95-50-1	1,2-Dichlorobenzene	U	742	ug/kg	148	742
108-60-1	bis(2-Chloroisopropyl)ether	U	742	ug/kg	148	742
95-48-7	o-Cresol	U	742	ug/kg	148	742
65794-96-9	m,p-Cresols	U	742	ug/kg	223	742
67-72-1	Hexachloroethane	U	742	ug/kg	148	742
98-95-3	Nitrobenzene	U	742	ug/kg	148	742
78-59-1	Isophorone	U	742	ug/kg	148	742
88-75-5	2-Nitrophenol	U	742	ug/kg	148	742
105-67-9	2,4-Dimethylphenol	U	742	ug/kg	260	742
111-91-1	bis(2-Chloroethoxy)methane	U	742	ug/kg	148	742
120-83-2	2,4-Dichlorophenol	U	742	ug/kg	148	742
65-85-0	Benzoic acid	U	1480	ug/kg	371	1480
91-20-3	Naphthalene	U	74.2	ug/kg	22.3	74.2
106-47-8	4-Chloroaniline	U	742	ug/kg	148	742
87-68-3	Hexachlorobutadiene	U	742	ug/kg	148	742
91-57-6	2-Methylnaphthalene	U	74.2	ug/kg	14.8	74.2
77-47-4	Hexachlorocyclopentadiene	U	742	ug/kg	148	742
88-06-2	2,4,6-Trichlorophenol	U	742	ug/kg	148	742
95-95-4	2,4,5-Trichlorophenol	U	742	ug/kg	148	742
91-58-7	2-Chloronaphthalene	U	74.2	ug/kg	24.5	74.2
88-74-4	2-Nitroaniline	U	742	ug/kg	148	742
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	742	ug/kg	148	742

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

SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	742	ug/kg	148	742
606-20-2	2,6-Dinitrotoluene	U	742	ug/kg	74.2	742
208-96-8	Acenaphthylene	U	74.2	ug/kg	22.3	74.2
51-28-5	2,4-Dinitrophenol	U	1480	ug/kg	282	1480
132-64-9	Dibenzofuran	U	742	ug/kg	148	742
84-66-2	Diethylphthalate	U	742	ug/kg	148	742
86-73-7	Fluorene	U	74.2	ug/kg	22.3	74.2
7005-72-3	4-Chlorophenylphenylether	U	742	ug/kg	148	742
534-52-1	2-Methyl-4,6-dinitrophenol	U	742	ug/kg	148	742
100-01-6	4-Nitroaniline	U	742	ug/kg	223	742
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	742	ug/kg	148	742
122-66-7	Azobenzene	U	742	ug/kg	148	742
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	742	ug/kg	148	742
118-74-1	Hexachlorobenzene	U	742	ug/kg	148	742
85-01-8	Phenanthrene	U	74.2	ug/kg	22.3	74.2
120-12-7	Anthracene	U	74.2	ug/kg	14.8	74.2
84-74-2	Di-n-butylphthalate	U	742	ug/kg	148	742
206-44-0	Fluoranthene	U	74.2	ug/kg	22.3	74.2
85-68-7	Butylbenzylphthalate	U	742	ug/kg	148	742
56-55-3	Benzo(a)anthracene	U	74.2	ug/kg	22.3	74.2
91-94-1	3,3'-Dichlorobenzidine	U	742	ug/kg	223	742
218-01-9	Chrysene	U	74.2	ug/kg	22.3	74.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	742	ug/kg	148	742
117-84-0	Di-n-octylphthalate	U	742	ug/kg	148	742
205-99-2	Benzo(b)fluoranthene	U	74.2	ug/kg	22.3	74.2
207-08-9	Benzo(k)fluoranthene	U	74.2	ug/kg	22.3	74.2
50-32-8	Benzo(a)pyrene	U	74.2	ug/kg	22.3	74.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	74.2	ug/kg	22.3	74.2
53-70-3	Dibenzo(a,h)anthracene	U	74.2	ug/kg	22.3	74.2
191-24-2	Benzo(ghi)perylene	U	74.2	ug/kg	22.3	74.2
120-82-1	1,2,4-Trichlorobenzene	U	742	ug/kg	148	742

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.61	348	ug/kg		J
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	350	ug/kg	95	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197003	Date Received: 02/26/2010 08:45	% Moisture: 10.4
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7406	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:17	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1317.d	Column: J&W DB-SMS	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	7.82	470	ug/kg		J
1599-67-3	1-Docosene	8.01	937	ug/kg	90	NJ
	Unknown	8.43	1470	ug/kg		J
	Unknown	8.68	781	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	1690	ug/kg	96	NJ
	Unknown	11.32	509	ug/kg		J
	Unknown	11.45	756	ug/kg		J

Data File: /chem/MSD3.i/s031310.b/s3c1317.d
Report Date: 14-Mar-2010 16:07

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1317.d
Lab Smp Id: 248197003 Client Smp ID: RE36-10-7406
Inj Date : 13-MAR-2010 16:17
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197003|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 17
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	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	10.44650	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473 (1.000)	528218	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329 (1.000)	2008216	40.0000	
* 46 Acenaphthene-d10	164	5.566	5.570 (1.000)	1100519	40.0000	
* 67 Phenanthrene-d10	188	6.588	6.592 (1.000)	1882517	40.0000	
* 91 Chrysene-d12	240	8.171	8.169 (1.000)	1263589	40.0000	
* 98 Perylene-d12	264	9.332	9.330 (1.000)	708147	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682 (0.774)	424848	35.7897	2660
\$ 5 Phenol-d5	99	3.208	3.206 (0.923)	485032	34.7790	2580
\$ 20 Nitrobenzene-d5	82	3.833	3.837 (0.886)	211781	18.5246	1380
\$ 39 2-Fluorobiphenyl	172	5.069	5.073 (0.911)	499913	17.8543	1320
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126 (1.100)	90122	35.7155	2650
\$ 81 p-Terphenyl-d14	244	7.524	7.522 (0.921)	417954	21.3392	1580

ION RATIO REPORT

SV REPORT

Data file: s3c1317.d

Report Date: 03/14/2010 14:32

Lab. ID: 248197003

SampleType: SAMPLE

Injection Date: 13-MAR-2010 16:17

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197003|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	26558	3.21	3.26	80-120	100	()
93	11636	3.25	3.26	200-260	44	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	31647	3.83	3.72	80-120	100	(T)
42	26801	3.83	3.72	76-136	85	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	648	4.11	4.12	80-120	100	()
122	302	4.11	4.12	55-115	47	(Q)
77	801	4.11	4.12	29- 89	124	(Q)

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	12737	5.30	5.17	80-120	100	(T)
164	746	5.30	5.17	2- 62	6	(T)
127	1185	5.30	5.17	12- 72	9	(QT)

42 o-Nitroaniline		CAS#: 88-74-4				
65	15275	5.29	5.24	80-120	100	()
92	18165	5.30	5.24	35- 95	119	(QT)
138	1504	5.29	5.24	93-153	10	(Q)

43 Dimethylphthalate		CAS#: 131-11-3				
163	199192	5.57	5.35	80-120	100	(T)
164	1100519	5.57	5.35	0- 40	552	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
44	2,6-Dinitrotoluene			CAS#: 606-20-2		
165	143876	5.57	5.40	80-120	100	(T)
63	1745	5.57	5.40	49-109	1	(QT)

50	2,4-Dinitrotoluene			CAS#: 121-14-2		
165	143876	5.57	5.69	80-120	100	(T)
89	2309	5.57	5.69	48-108	2	(QT)
63	1745	5.57	5.69	21- 81	1	(QT)

52	4-Nitrophenol			CAS#: 100-02-7		
139	358	5.72	5.63	80-120	100	(T)
109	265	5.85	5.63	39- 99	74	(T)
65	496	5.64	5.63	60-120	139	(Q)

55	2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1		
198	475	6.12	5.98	80-120	100	(T)
105	911	6.12	5.98	14- 74	192	(QT)
51	908	6.12	5.98	40-100	191	(QT)

56	p-Nitroaniline			CAS#: 100-01-6		
138	194	6.02	5.97	80-120	100	()
108	654	6.02	5.97	35- 95	336	(Q)
92	208	6.02	5.97	5- 65	107	(Q)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD3.i/s031310.b/s3c1317.d
 Report Date: 14-Mar-2010 16:07

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1317.d
 Lab Smp Id: 248197003 Client Smp ID: RE36-10-7406
 Inj Date : 13-MAR-2010 16:17
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |248197003|960459|2|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 17
 Dil Factor: 2.00000
 Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	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	10.44650	% moisture

Cpnd Variable

Local Compound Variable

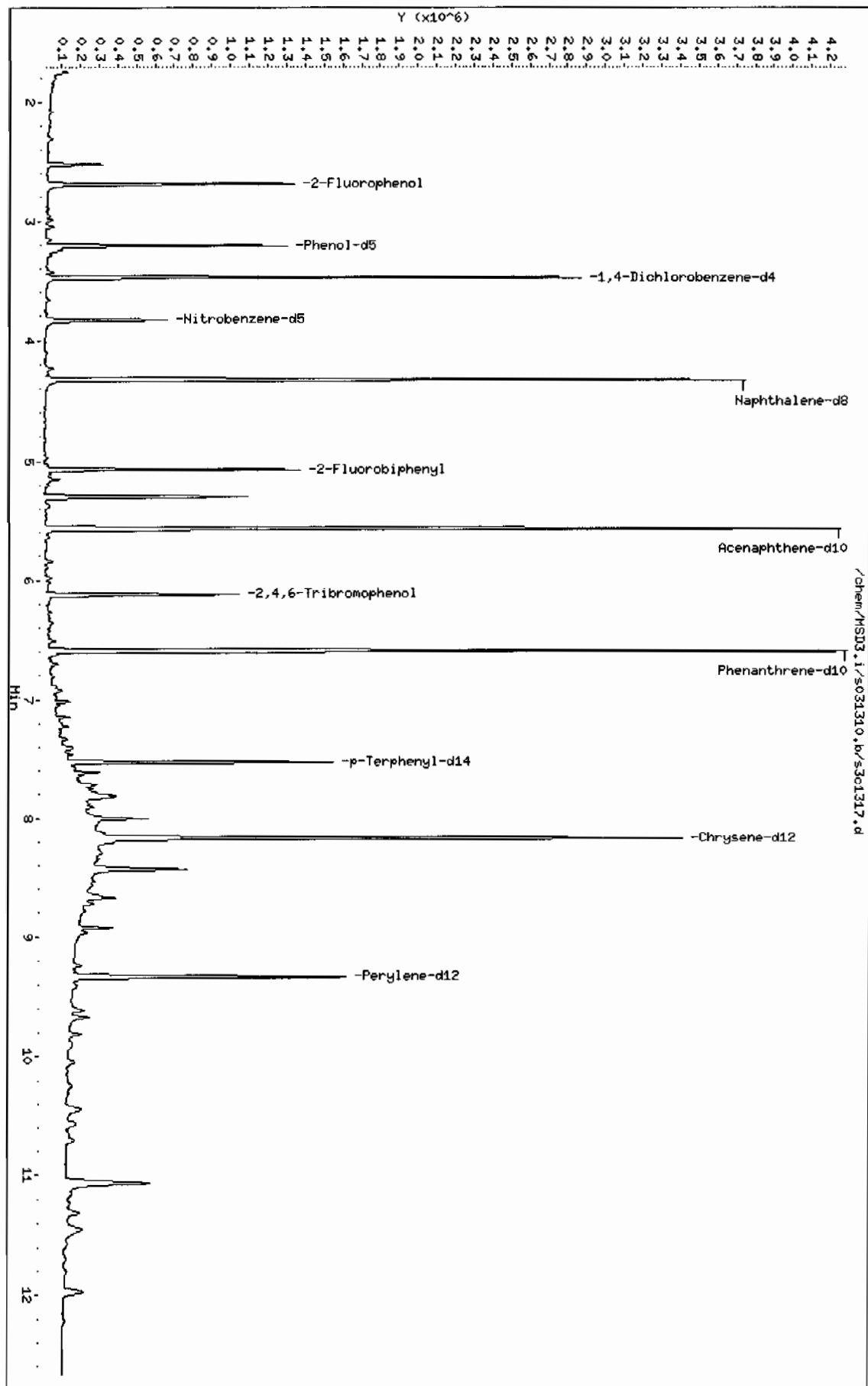
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.171	4648921	40.000
* 98 Perylene-d12	9.332	2582161	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
7.615	544258	4.68287303	348	0		0	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1235-74-1		
7.802	547928	4.71445595	350	95	NIST05.L	133618	91
Unknown					CAS #:		
7.824	736288	6.33513343	470	0		0	91
1-Docosene					CAS #: 1599-67-3		
8.005	1466523	12.6181778	937	90	NIST05.L	129889	91
Unknown					CAS #:		
8.433	2300313	19.7922332	1470	0		0	91
Unknown					CAS #:		
8.679	1222103	10.5151533	781	0		0	91
.beta.-Sitosterol					CAS #: 83-46-5		
11.065	1470081	22.7728704	1690	96	NIST05.L	174399	98
Unknown					CAS #:		
11.316	442164	6.84951433	508	0		0	98
Unknown					CAS #:		
11.450	657655	10.1876609	756	0		0	98

Data File: /chem/MSD3.i/s031310.b/s031317.d
Date: 13-MAR-2010 16:17
Client ID: RE36-10-7406
Sample Info: 12481970031960489121SYMF111LANL
Volume Injected (uL): 0.5
Column phase: J&W DB-SMS

Instrument: MSD3.i
Operator: JLD1
Column diameter: 0.20



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 12481970031960469121SVMF11ILANL

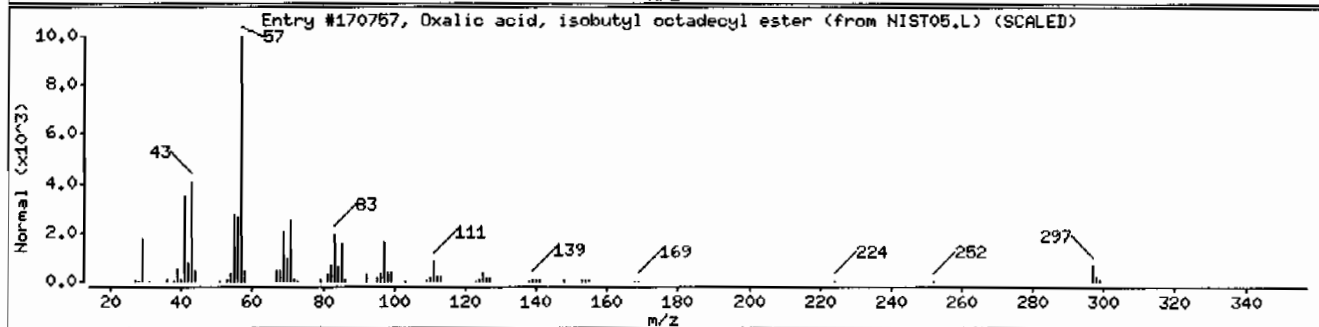
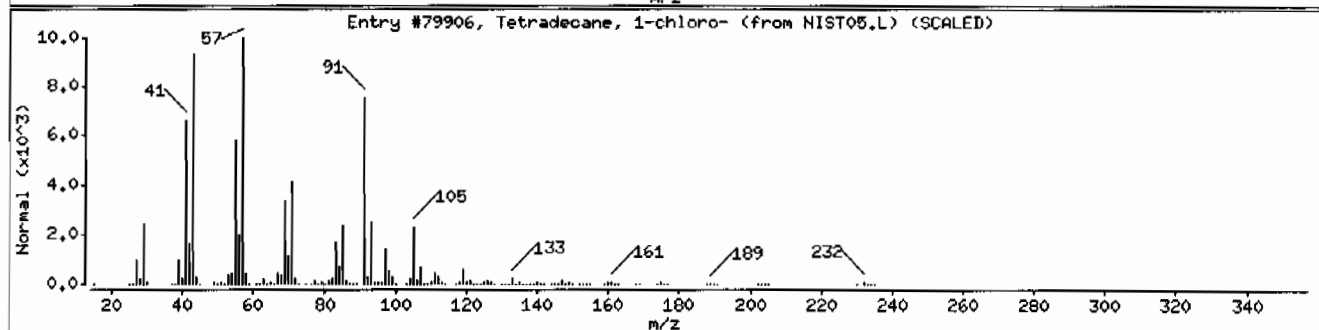
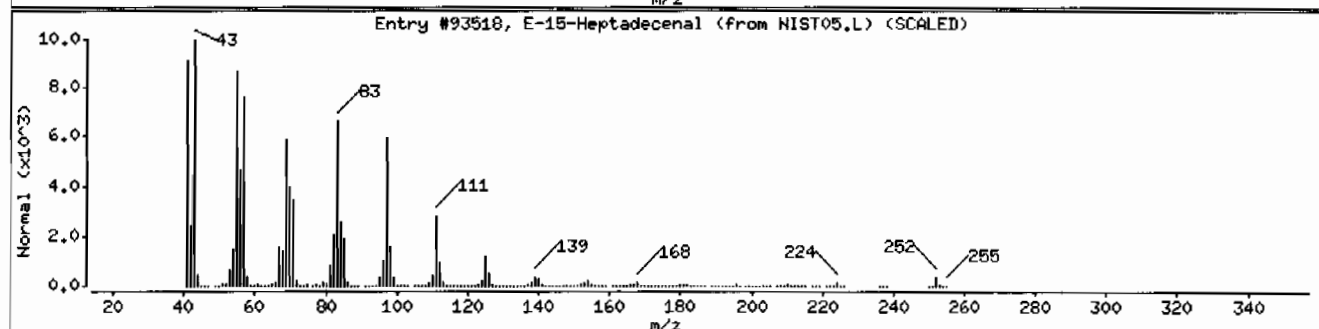
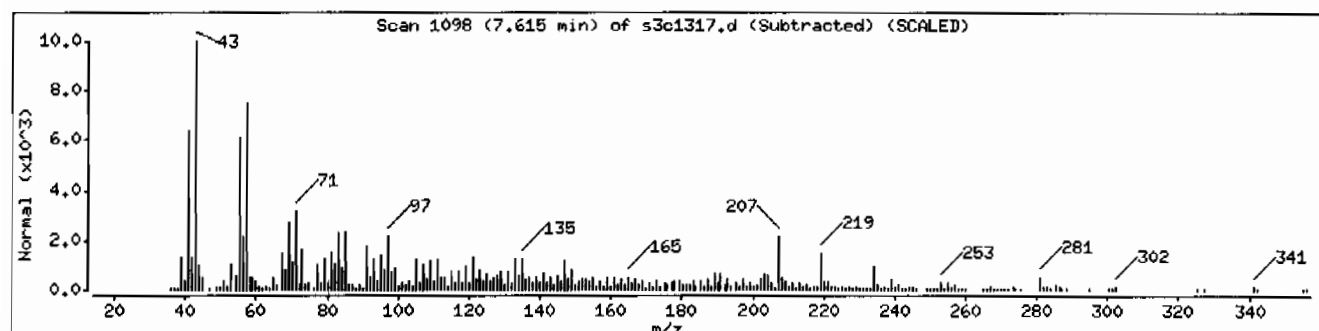
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
E-15-Heptadecenal	1000130-97-9	NIST05.L	93518	53	C17H32O	252
Tetradecane, 1-chloro-	2425-54-9	NIST05.L	79906	47	C14H29Cl	232
Oxalic acid, isobutyl octadecyl ester	1000309-38-3	NIST05.L	170757	30	C24H46O4	398



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: I2481970031960459121SVHF11ILANL

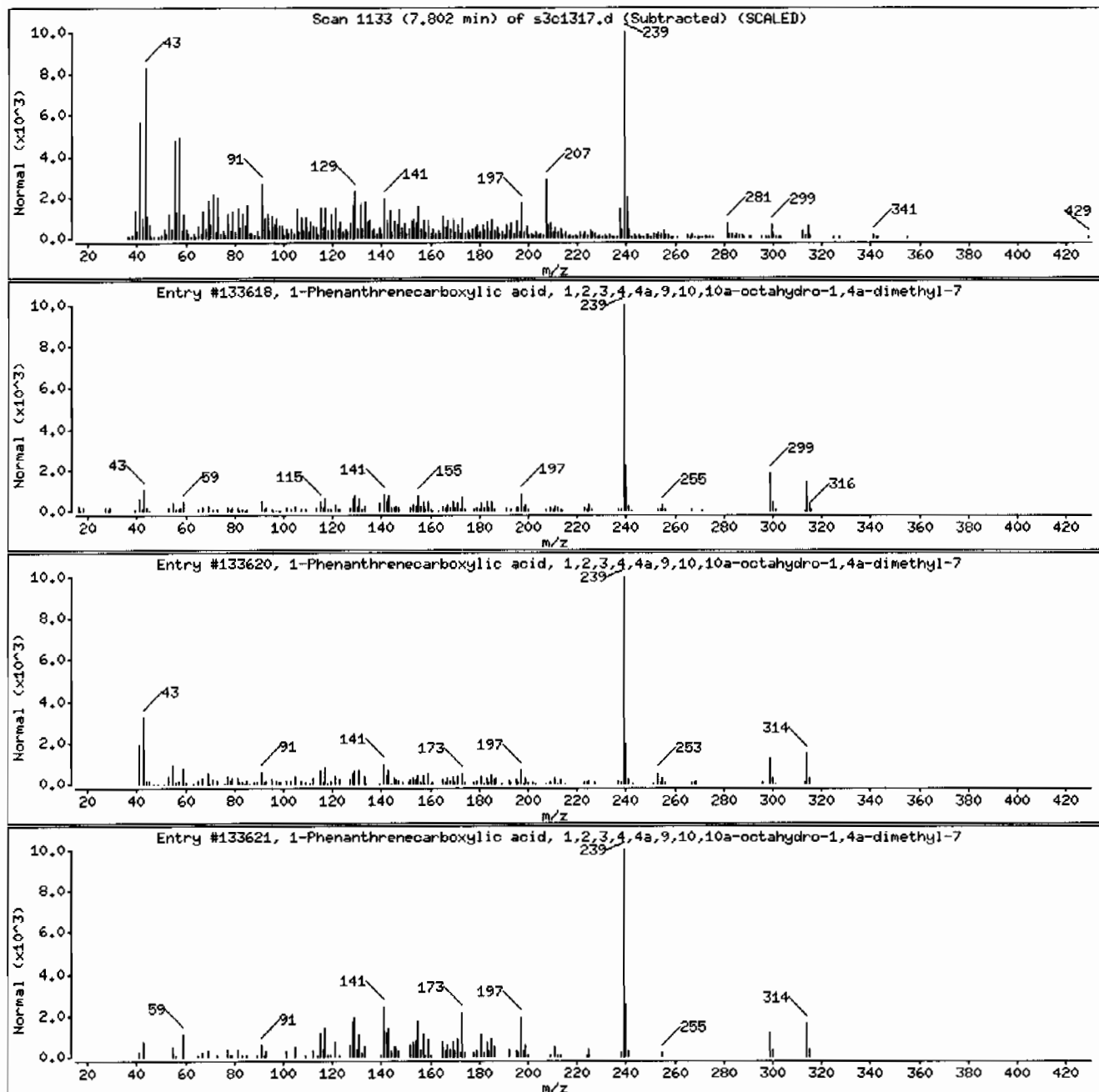
Volume Injected (uL): 0.5

Operator: JLD1

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	92	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133621	56	C21H30O2	314



Date: 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 12481970031960459121SVHF11ILANL

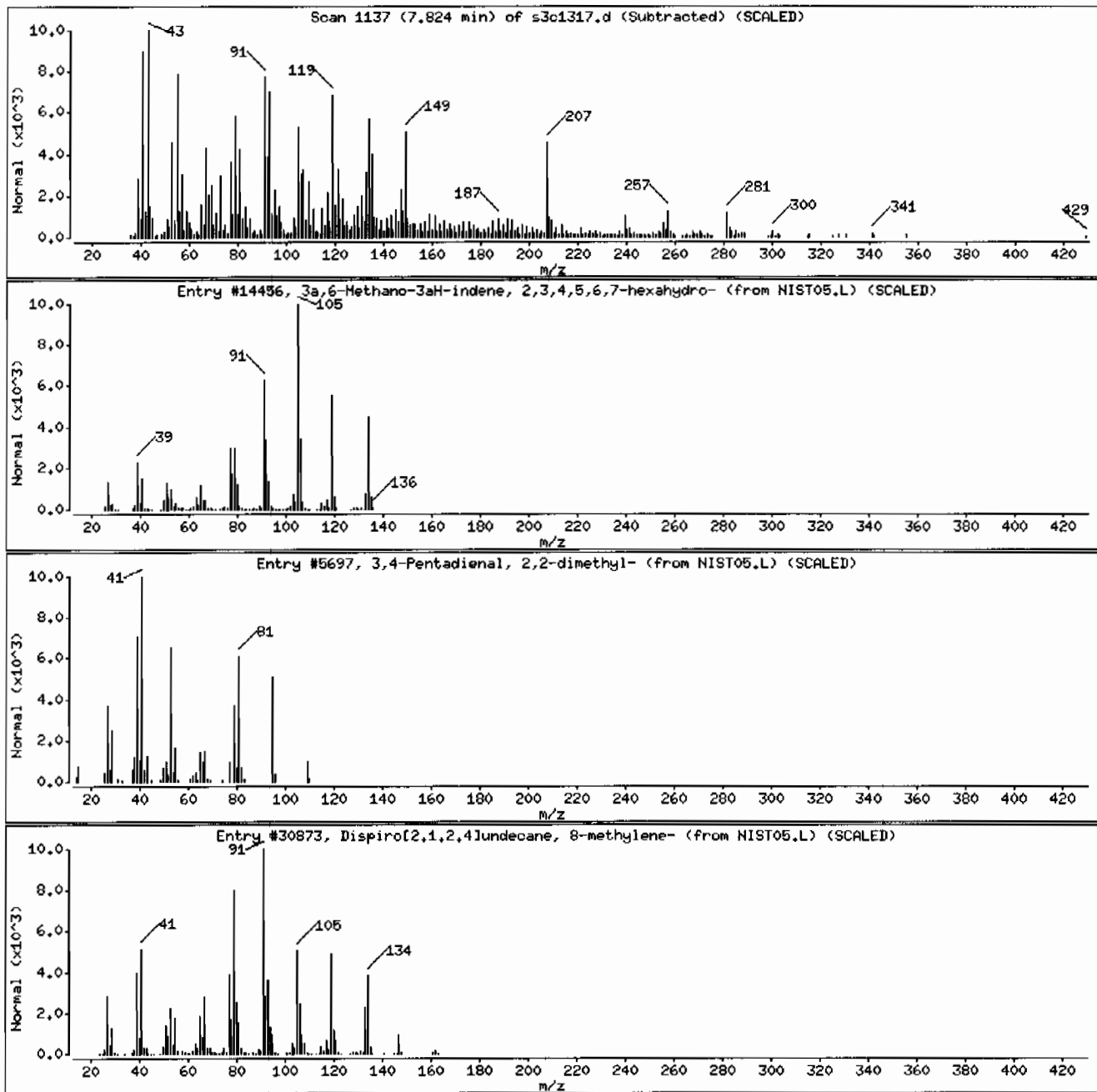
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3a,6-Methano-3aH-indene, 2,3,4,5,6,7-hex	98640-10-9	NIST05.L	14456	25	C10H14	134
3,4-Pentadienal, 2,2-dimethyl-	4058-51-9	NIST05.L	5697	22	C7H10O	110
Dispiro[2.1,2,4]undecane, 8-methylene-	51567-08-9	NIST05.L	30873	20	C12H18	162



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: HSD3.i

Sample Info: 12481970031960459121SVHF11ILANL

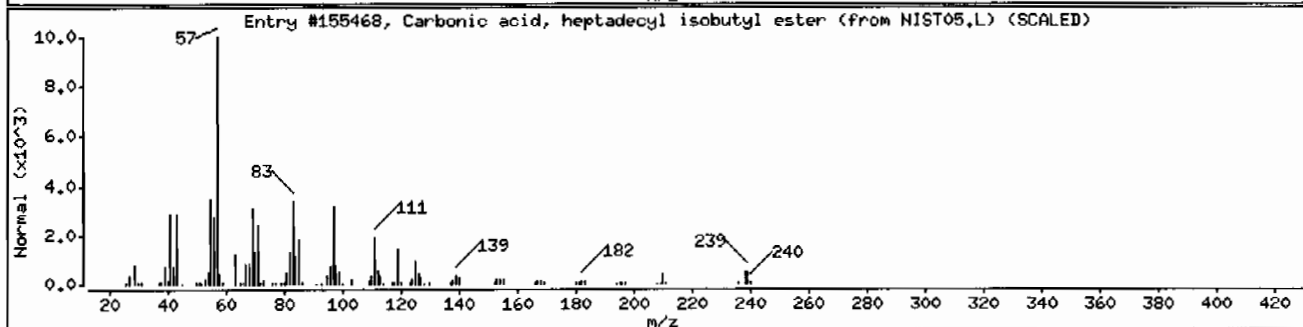
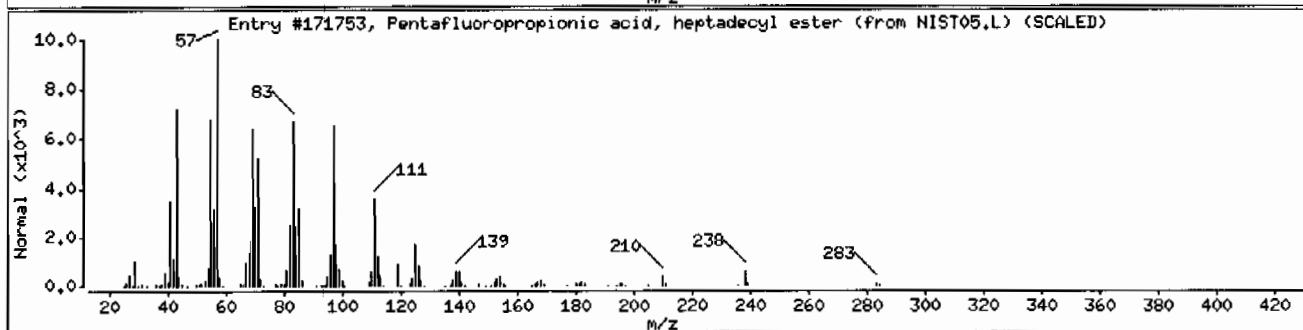
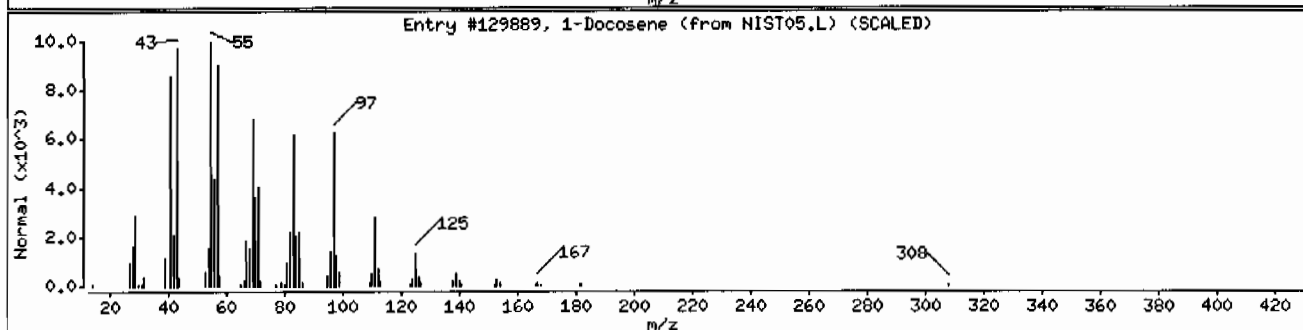
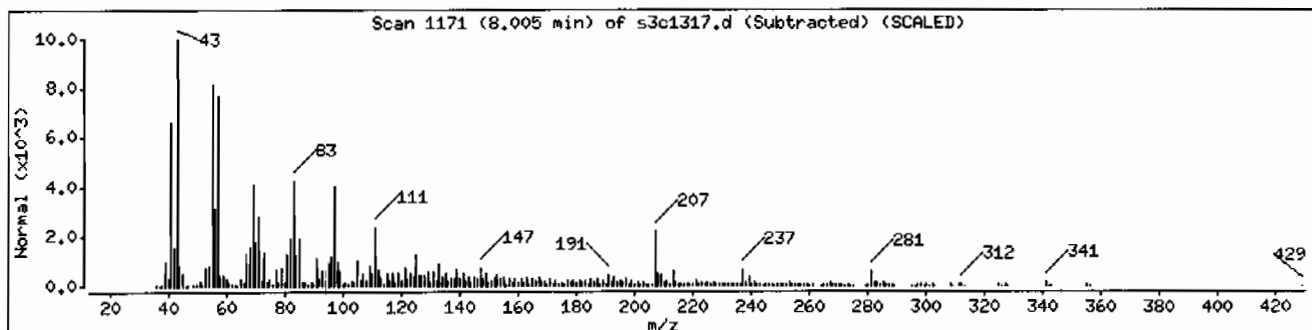
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Docosene	1599-67-3	NIST05.L	129889	90	C22H44	308
Pentafluoropropionic acid, heptadecyl es	1000283-04-2	NIST05.L	171753	90	C20H35F5O2	402
Carbonic acid, heptadecyl isobutyl ester	1000314-61-4	NIST05.L	155468	81	C22H44O3	356



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: HSD3.i

Sample Info: I2481970031960459121SVMF111LANL

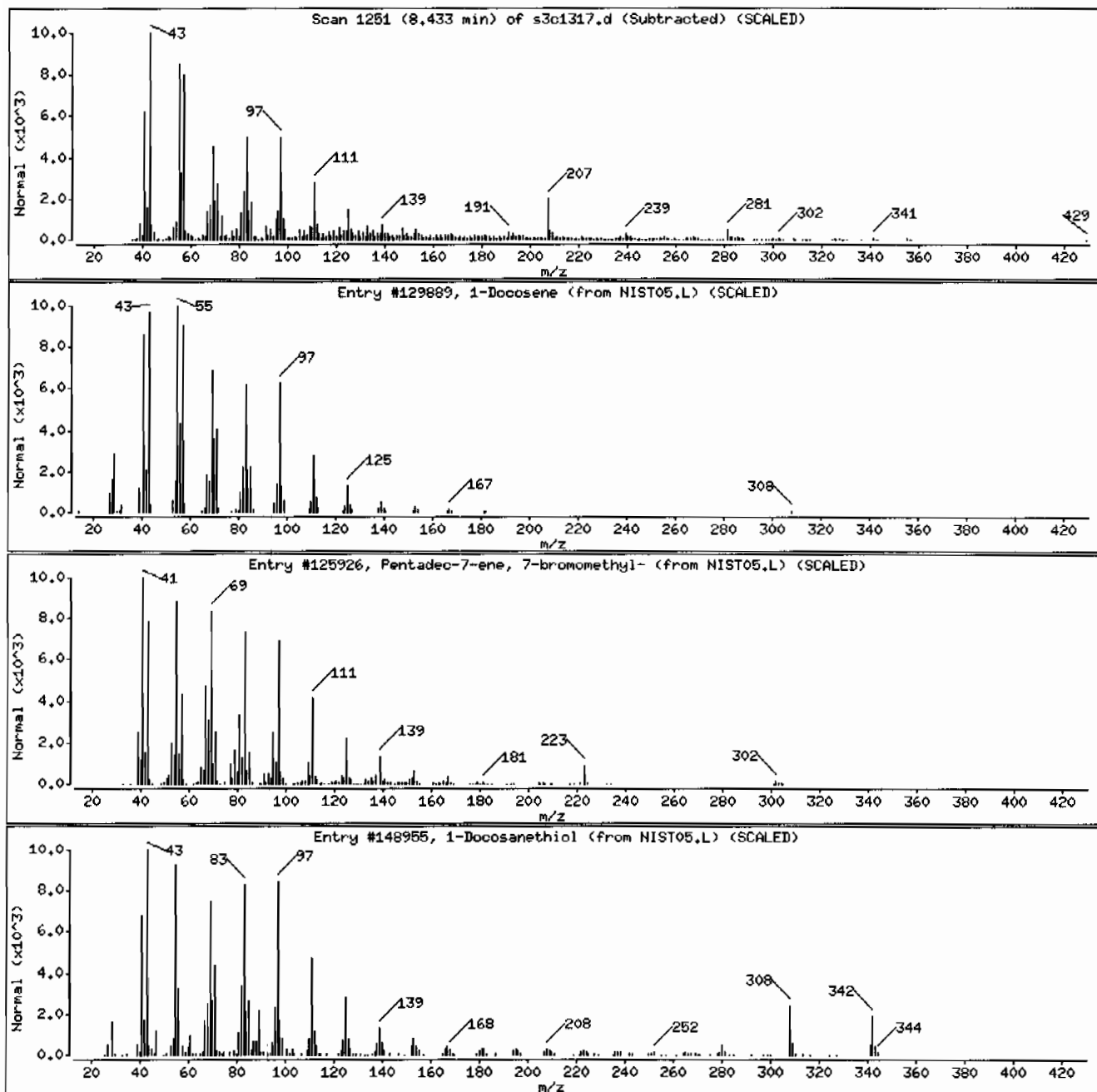
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Docosene	1599-67-3	NIST05.L	129889	86	C22H44	308
Pentadec-7-ene, 7-bromomethyl-	1000259-58-5	NIST05.L	125926	83	C16H31Br	302
1-Docosanethiol	7773-83-3	NIST05.L	148955	76	C22H46S	342



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 12481970031960459121SVHF111LANL

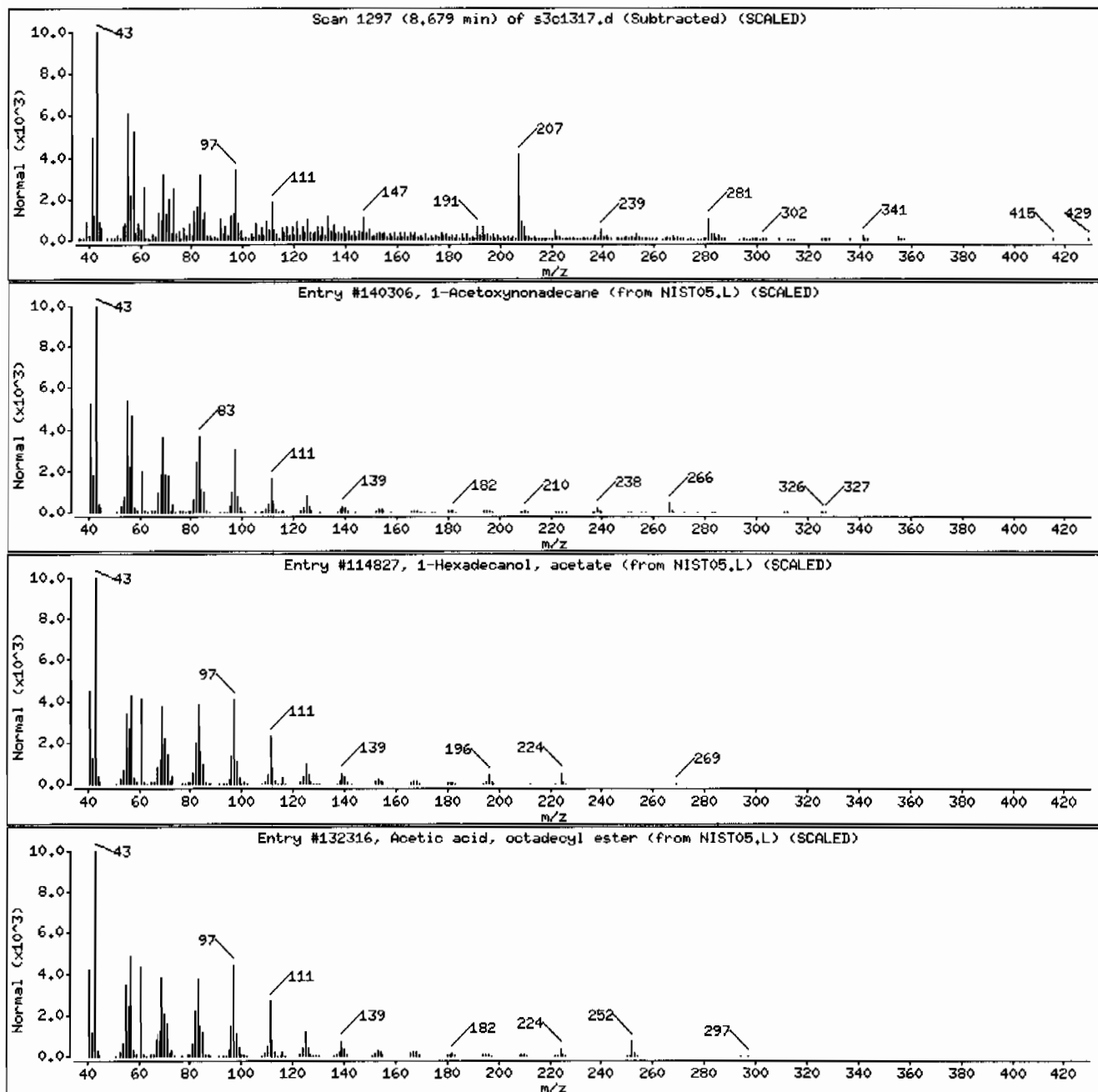
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Acetoxyundecane	1577-43-1	NIST05.L	140306	41	C ₂₁ H ₄₂ O ₂	326
1-Hexadecanol, acetate	629-70-9	NIST05.L	114827	35	C ₁₈ H ₃₆ O ₂	284
Acetic acid, octadecyl ester	822-23-1	NIST05.L	132316	35	C ₂₀ H ₄₀ O ₂	312



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 12481970031960459121SVMF111LANL

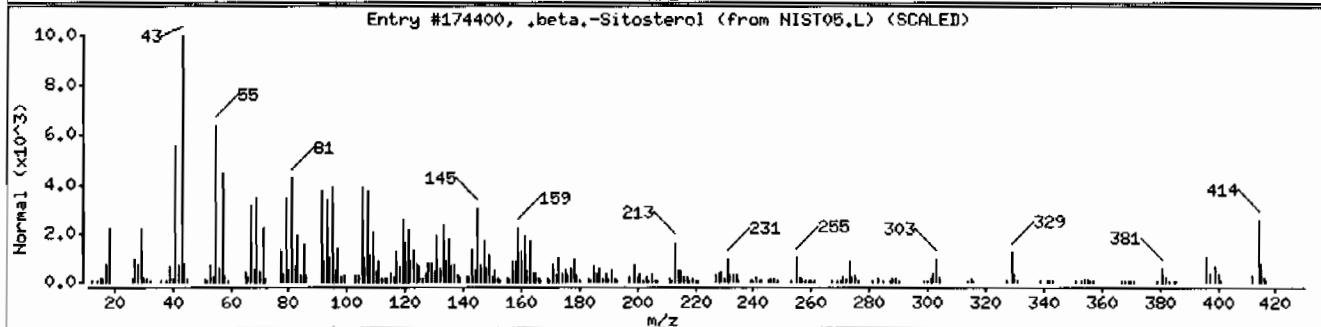
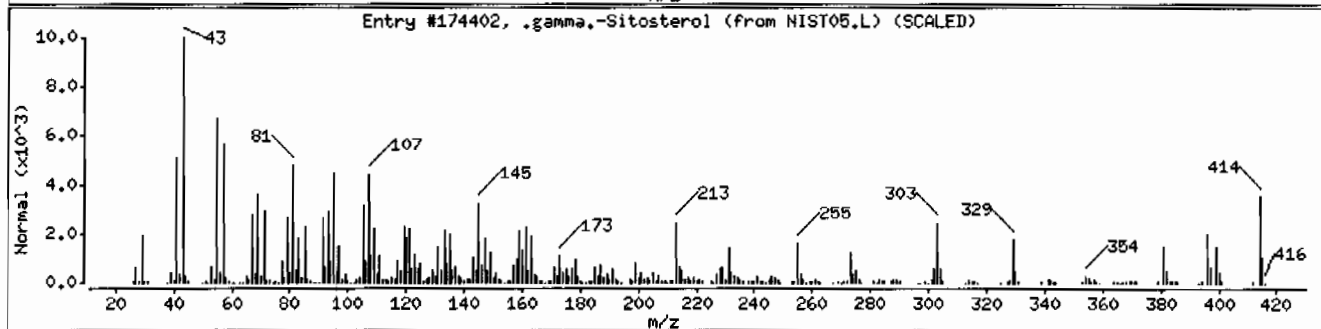
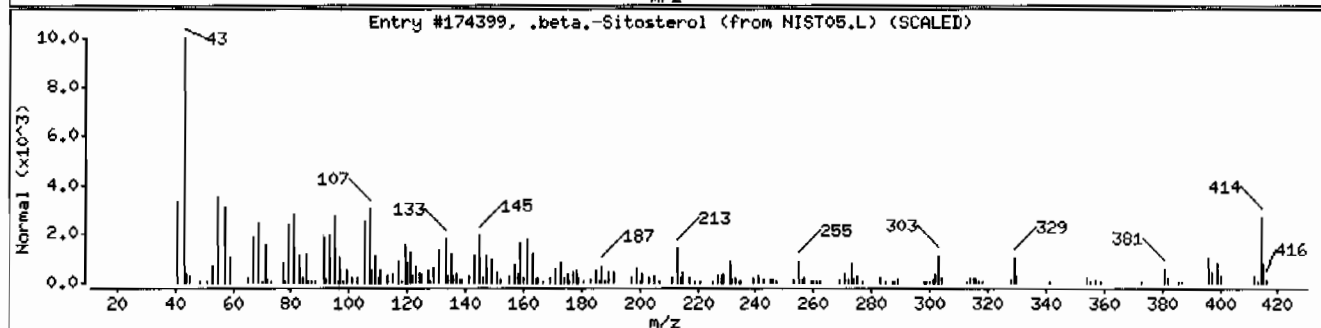
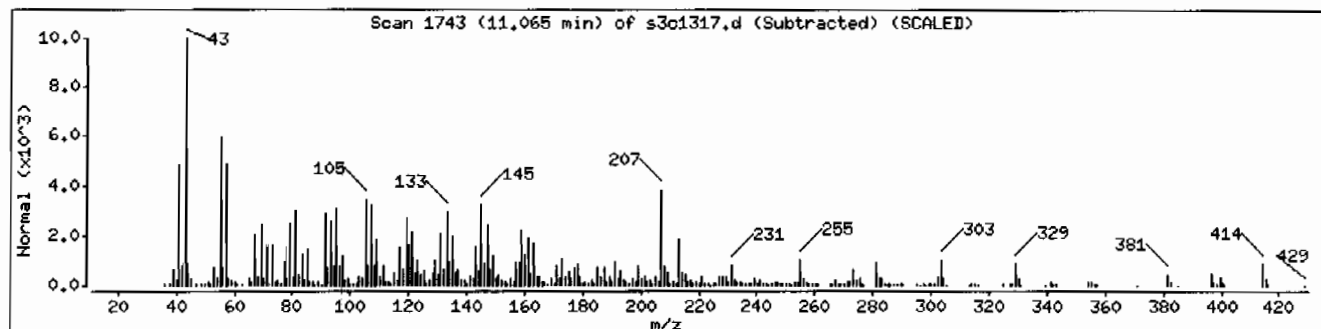
Volume Injected (uL): 0.5

Operator: JLD1

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	174399	96	C ₂₉ H ₅₀ O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	95	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174400	92	C ₂₉ H ₅₀ O	414



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 12481970031960459121SVMF111LANL

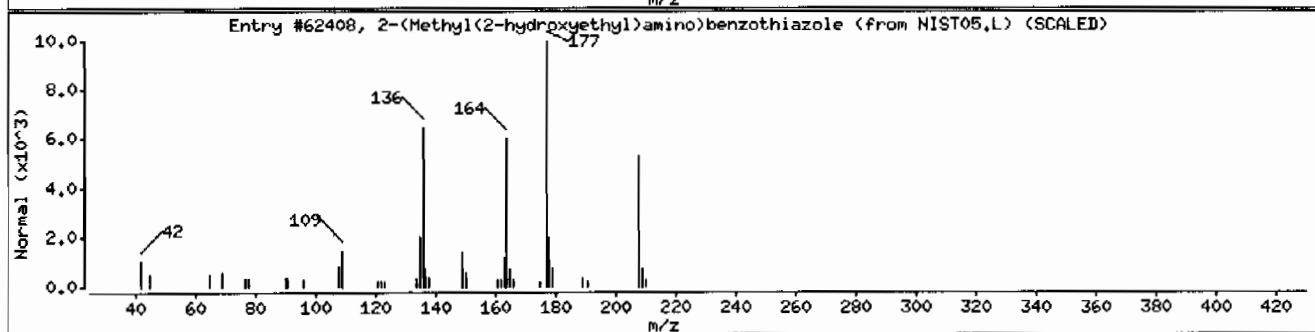
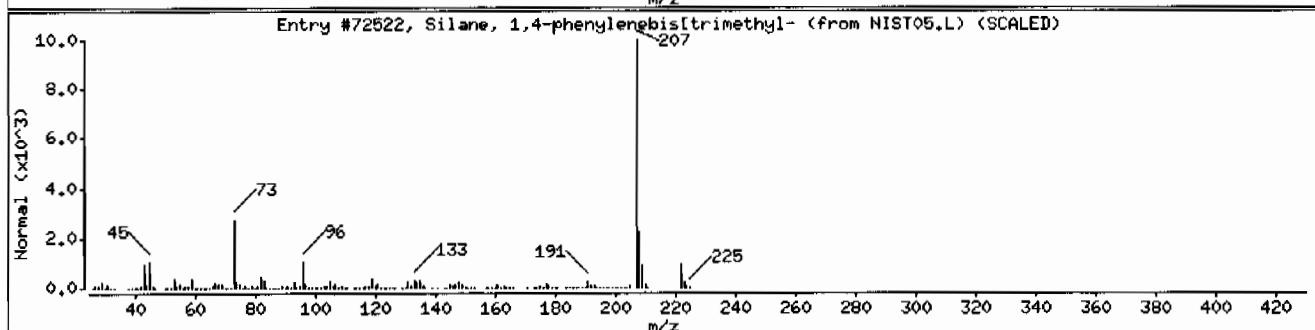
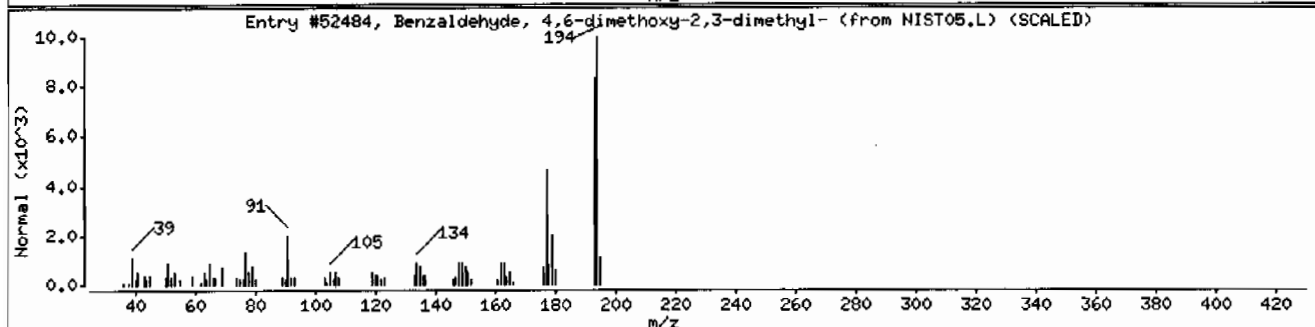
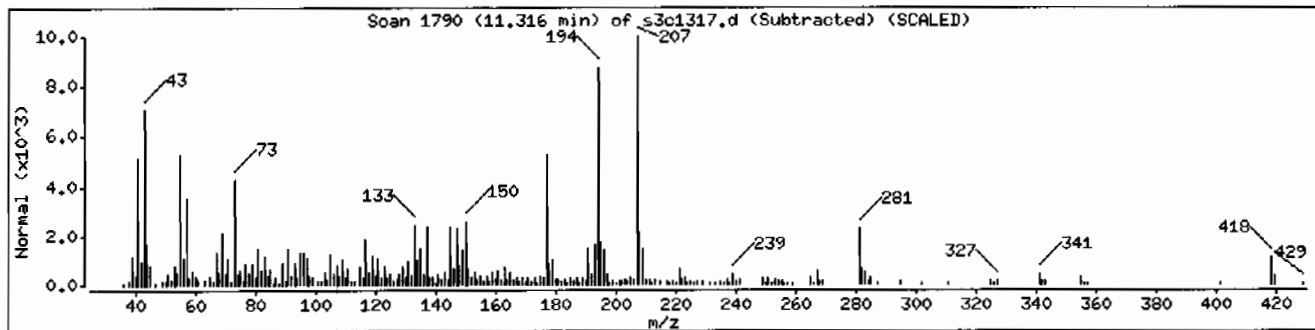
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzaldehyde, 4,6-dimethoxy-2,3-dimethyl	34883-13-1	NIST05.L	52484	38	C ₁₁ H ₁₄ O ₃	194
Silane, 1,4-phenylenebis(trimethyl-	13183-70-5	NIST05.L	72522	30	C ₁₂ H ₂₂ Si ₂	222
2-(Methyl(2-hydroxyethyl)amino)benzothia	68720-62-7	NIST05.L	62408	25	C ₁₀ H ₁₂ N ₂ O ₂ S	208



Date : 13-MAR-2010 16:17

Client ID: RE36-10-7406

Instrument: MSD3.i

Sample Info: 1248197003196045912ISVHF111LANL

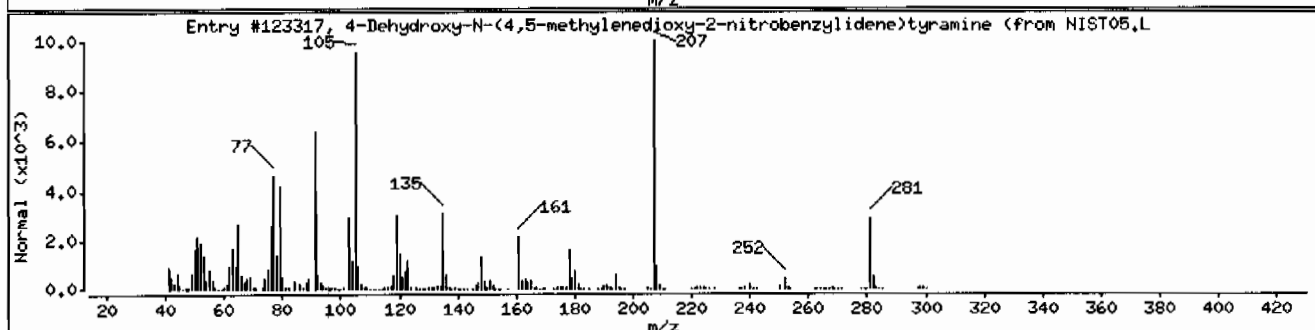
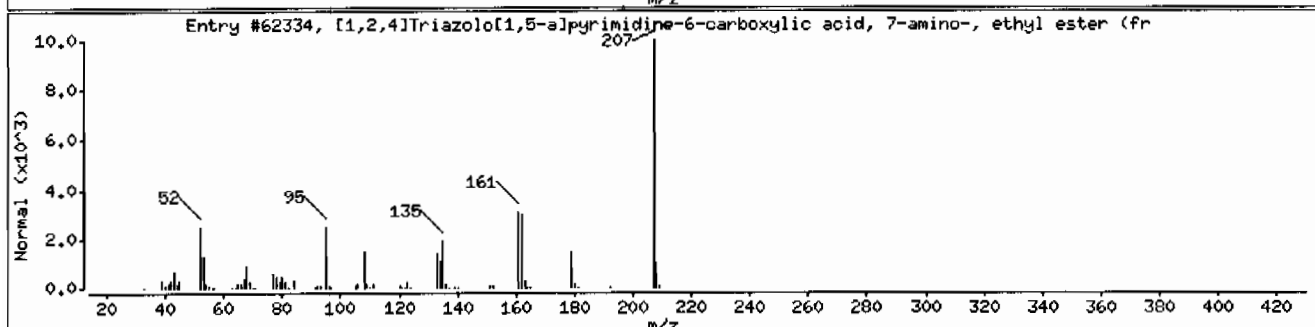
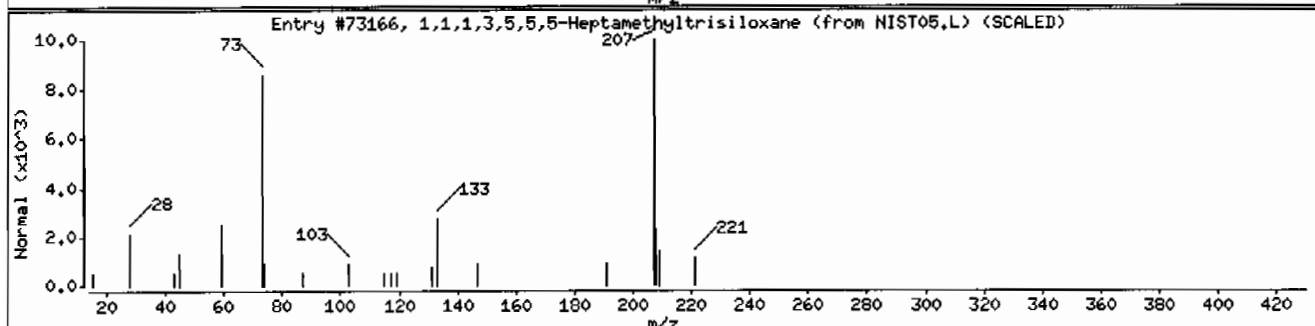
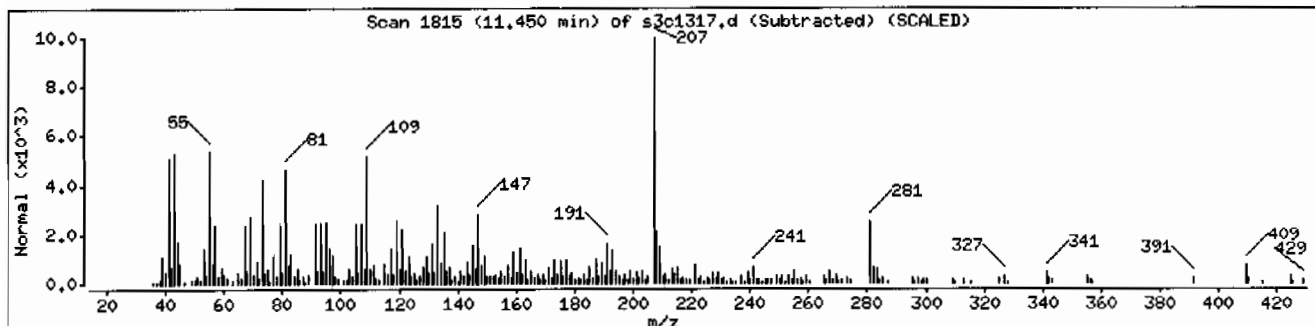
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,1,3,5,5-Heptamethyltrisiloxane	1873-88-7	NIST05.L	73166	38	C7H22O2Si3	222
[1,2,4]Triazolo[1,5-a]pyrimidine-6-carbo	1000316-75-8	NIST05.L	62334	35	C8H9N5O2	207
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	35	C16H14N2O4	298



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

SDG Number: 10-2121
Lab Sample ID: 248197011

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7425
Batch ID: 960459
Run Date: 03/13/2010 22:04
Prep Date: 03/03/2010 23:09
Data File: s3c1335.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	853	ug/kg	171	853
108-95-2	Phenol	U	853	ug/kg	171	853
95-57-8	2-Chlorophenol	U	853	ug/kg	171	853
106-46-7	1,4-Dichlorobenzene	U	853	ug/kg	171	853
621-64-7	N-Nitrosodipropylamine	U	853	ug/kg	171	853
59-50-7	4-Chloro-3-methylphenol	U	853	ug/kg	171	853
83-32-9	Acenaphthene	J	35.3	ug/kg	28.1	85.3
121-14-2	2,4-Dinitrotoluene	U	853	ug/kg	85.3	853
100-02-7	4-Nitrophenol	U	853	ug/kg	281	853
87-86-5	Pentachlorophenol	U	853	ug/kg	213	853
110-86-1	Pyridine	U	853	ug/kg	171	853
62-53-3	Aniline	U	853	ug/kg	256	853
111-44-4	bis(2-Chloroethyl) ether	U	853	ug/kg	171	853
541-73-1	1,3-Dichlorobenzene	U	853	ug/kg	171	853
100-51-6	Benzyl alcohol	U	853	ug/kg	256	853
95-50-1	1,2-Dichlorobenzene	U	853	ug/kg	171	853
108-60-1	bis(2-Chloroisopropyl)ether	U	853	ug/kg	171	853
95-48-7	o-Cresol	U	853	ug/kg	171	853
65794-96-9	m,p-Cresols	U	853	ug/kg	256	853
67-72-1	Hexachloroethane	U	853	ug/kg	171	853
98-95-3	Nitrobenzene	U	853	ug/kg	171	853
78-59-1	Isophorone	U	853	ug/kg	171	853
88-75-5	2-Nitrophenol	U	853	ug/kg	171	853
105-67-9	2,4-Dimethylphenol	U	853	ug/kg	298	853
111-91-1	bis(2-Chloroethoxy)methane	U	853	ug/kg	171	853
120-83-2	2,4-Dichlorophenol	U	853	ug/kg	171	853
65-85-0	Benzoic acid	U	1710	ug/kg	426	1710
91-20-3	Naphthalene	J	66.1	ug/kg	25.6	85.3
106-47-8	4-Chloroaniline	U	853	ug/kg	171	853
87-68-3	Hexachlorobutadiene	U	853	ug/kg	171	853
91-57-6	2-Methylnaphthalene	J	23.5	ug/kg	17.1	85.3
77-47-4	Hexachlorocyclopentadiene	U	853	ug/kg	171	853
88-06-2	2,4,6-Trichlorophenol	U	853	ug/kg	171	853
95-95-4	2,4,5-Trichlorophenol	U	853	ug/kg	171	853
91-58-7	2-Chloronaphthalene	U	85.3	ug/kg	28.1	85.3
88-74-4	2-Nitroaniline	U	853	ug/kg	171	853
99-09-2	<i>o</i> -Nitroaniline	U	853	ug/kg	171	853
	<i>m</i> -Nitroaniline					

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

SDG Number: 10-2121
Lab Sample ID: 248197011

Client ID: RE36-10-7425
Batch ID: 960459
Run Date: 03/13/2010 22:04
Prep Date: 03/03/2010 23:09
Data File: s3c1335.d

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.12 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	853	ug/kg	171	853
606-20-2	2,6-Dinitrotoluene	U	853	ug/kg	85.3	853
208-96-8	Accenaphthylene	U	85.3	ug/kg	25.6	85.3
51-28-5	2,4-Dinitrophenol	U	1710	ug/kg	324	1710
132-64-9	Dibenzofuran	U	853	ug/kg	171	853
84-66-2	Diethylphthalate	U	853	ug/kg	171	853
86-73-7	Fluorene	J	60.5	ug/kg	25.6	85.3
7005-72-3	4-Chlorophenylphenylether	U	853	ug/kg	171	853
534-52-1	2-Methyl-4,6-dinitrophenol	U	853	ug/kg	171	853
100-01-6	4-Nitroaniline	U	853	ug/kg	256	853
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	853	ug/kg	171	853
122-66-7	Azobenzene	U	853	ug/kg	171	853
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	853	ug/kg	171	853
118-74-1	Hexachlorobenzene	U	853	ug/kg	171	853
85-01-8	Phenanthrene		1170	ug/kg	25.6	85.3
120-12-7	Anthracene		709	ug/kg	17.1	85.3
84-74-2	Di-n-butylphthalate	U	853	ug/kg	171	853
206-44-0	Fluoranthene		8250	ug/kg	25.6	85.3
85-68-7	Butylbenzylphthalate	U	853	ug/kg	171	853
56-55-3	Benzo(a)anthracene		6250	ug/kg	25.6	85.3
91-94-1	3,3'-Dichlorobenzidine	U	853	ug/kg	256	853
218-01-9	Chrysene		6760	ug/kg	25.6	85.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	853	ug/kg	171	853
117-84-0	Di-n-octylphthalate	U	853	ug/kg	171	853
207-08-9	Benzo(k)fluoranthene	U	85.3	ug/kg	25.6	85.3
50-32-8	Benzo(a)pyrene		6520	ug/kg	25.6	85.3
193-39-5	Indeno(1,2,3-cd)pyrene		2730	ug/kg	25.6	85.3
53-70-3	Dibenzo(a,h)anthracene	U	85.3	ug/kg	25.6	85.3
191-24-2	Benzo(ghi)perylene		2720	ug/kg	25.6	85.3
120-82-1	1,2,4-Trichlorobenzene	U	853	ug/kg	171	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2531-84-2	Phenanthrene, 2-methyl-	6.91	888	ug/kg	98	NJ
	Unknown	6.97	1440	ug/kg		J
2789-88-0	di-p-Tolylacetylene	7.22	839	ug/kg	93	NJ
	Unknown	7.26	814	ug/kg		J

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 22:04	Analyst: JLDJ	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1335.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
2381-21-7	Pyrene, 1-methyl-	7.58	628	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	1150	ug/kg	96	NJ
	Unknown	7.68	974	ug/kg		J
	Unknown	7.71	1010	ug/kg		J
	Unknown	7.76	461	ug/kg		J
	Unknown	7.78	584	ug/kg		J
64401-21-4	Pyrene, 1,3-dimethyl-	7.88	818	ug/kg	83	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	851	ug/kg	96	NJ
195-19-7	Benzo[c]phenanthrene	8.02	1030	ug/kg	90	NJ
	Unknown	8.05	683	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	656	ug/kg	97	NJ
	Unknown	8.25	640	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	707	ug/kg	95	NJ
3351-28-8	Chrysene, 1-methyl-	8.43	522	ug/kg	97	NJ
	Unknown	8.51	775	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.54	818	ug/kg	89	NJ
198-55-0	Perylene	9.24	3620	ug/kg	99	NJ
	Unknown	9.74	2260	ug/kg		J
1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,	10.12	4380	ug/kg	97	NJ
213-46-7	1,2:7,8-Dibenzophenanthrene	10.81	2350	ug/kg	99	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1335.d
Report Date: 14-Mar-2010 17:04

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Data file : /chem/MSD3.i/s031310.b/s3c1335.d
Lab Smp Id: 248197011 Client Smp ID: RE36-10-7425
Inj Date : 13-MAR-2010 22:04
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197011|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 34
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.13550	% 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	3.475	3.473	(1.000)	563209	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2182709	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570	(1.000)	1164943	40.0000	
* 67 Phenanthrene-d10	188	6.594	6.592	(1.000)	1915178	40.0000	
* 91 Chrysene-d12	240	8.177	8.169	(1.000)	1097686	40.0000	
* 98 Perylene-d12	264	9.343	9.330	(1.000)	552148	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	502234	39.6803	3380
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	584361	39.2981	3350
\$ 20 Nitrobenzene-d5	82	3.834	3.837	(0.886)	271662	21.8628	1860
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	590724	19.9308	1700
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126	(1.101)	101591	38.0342	3240
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.920)	449508	26.4189	2250

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
47 Acenaphthene	154	5.588	5.591	(1.004)	11882	0.41426	35.3(a)
79 Pyrene	202	7.471	7.463	(0.914)	4008415	126.112	10800(A)
30 Naphthalene	128	4.342	4.340	(1.004)	33572	0.77521	66.1(a)
34 2-Methylnaphthalene	142	4.823	4.821	(1.115)	7747	0.27544	23.5(a)
53 Fluorene	166	5.957	5.960	(1.070)	22344	0.70975	60.5(a)
68 Phenanthrene	178	6.604	6.608	(1.002)	595966	13.7373	1170
69 Anthracene	178	6.636	6.640	(1.006)	353117	8.31335	709
76 Fluoranthene	202	7.332	7.324	(1.112)	3803881	96.8005	8250
89 Benzo(a)anthracene	228	8.166	8.159	(0.999)	1867575	73.2605	6250
92 Chrysene	228	8.193	8.185	(1.002)	2066060	79.2651	6760
95 Benzo(b)fluoranthene	252	8.979	8.966	(0.961)	1768777	126.207	10800(A)
97 Benzo(a)pyrene	252	9.289	9.277	(0.994)	920587	76.4635	6520
99 Indeno(1,2,3-cd)pyrene	276	10.610	10.603	(1.136)	331809	31.9629	2720
101 Benzo(ghi)perylene	276	11.006	10.993	(1.178)	271926	31.8857	2720

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1335.d

Report Date: 03/14/2010 14:37

Lab. ID: 248197011

SampleType: SAMPLE

Injection Date: 13-MAR-2010 22:04

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197011|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	32611	3.21	3.26	80-120	100	()
93	3749	3.25	3.26	200-260	11	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	37225	3.83	3.72	80-120	100	(T)
42	31931	3.83	3.72	76-136	86	(T)

22	Isophorone	CAS#: 78-59-1				
82	270067	3.83	4.00	80-120	100	(T)
138	127	3.76	4.00	0- 55	0	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	177	4.11	4.12	80-120	100	()
122	626	4.07	4.12	55-115	353	(Q)
77	715	4.17	4.12	29- 89	404	(Q)

30	Naphthalene	CAS#: 91-20-3				
128	33572	4.34	4.34	80-120	100	()
129	3791	4.34	4.34	0- 42	11	()
127	4352	4.34	4.34	0- 42	13	()

34	2-Methylnaphthalene	CAS#: 91-57-6				
142	7747	4.82	4.82	80-120	100	()
141	6637	4.82	4.82	55-115	86	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate				CAS#: 131-11-3		
163	214532	5.57	5.35	80-120	100	(T)
164	1168273	5.57	5.35	0- 40	545	(QT)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	153757	5.57	5.40	80-120	100	(T)
63	1792	5.57	5.40	49-109	1	(QT)

47 Acenaphthene				CAS#: 83-32-9		
154	11882	5.59	5.59	80-120	100	()
153	11796	5.59	5.59	71-131	99	()
152	5566	5.59	5.59	18- 78	47	()

48 2,4-Dinitrophenol				CAS#: 51-28-5		
184	281	5.81	5.61	80-120	100	(T)
154	553	5.82	5.59	1081-1141	197	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	153757	5.57	5.69	80-120	100	(T)
89	2132	5.57	5.69	48-108	1	(QT)
63	1792	5.57	5.69	21- 81	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	338	5.63	5.63	80-120	100	()
109	2736	5.57	5.63	39- 99	808	(QT)
65	365	5.64	5.63	60-120	108	()

53 Fluorene				CAS#: 86-73-7		
166	22344	5.96	5.96	80-120	100	()
165	20949	5.96	5.96	62-122	94	()
167	4244	5.96	5.96	0- 44	19	()

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	762	6.13	5.98	80-120	100	(T)
105	1377	6.12	5.98	14- 74	181	(QT)
51	2813	6.12	5.98	40-100	369	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	496	5.96	5.97	80-120	100	()
108	454	5.96	5.97	35- 95	92	()
92	227	5.80	5.97	5- 65	46	(T)

68 Phenanthrene				CAS#: 85-01-8		
178	595966	6.60	6.61	80-120	100	()
179	96237	6.60	6.61	0- 46	16	()
176	114017	6.60	6.61	0- 49	19	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
69 Anthracene		CAS#: 120-12-7				
178	353117	6.64	6.64	80-120	100	()
179	68701	6.64	6.64	0- 46	19	()
176	63473	6.64	6.64	0- 49	18	()

76 Fluoranthene		CAS#: 206-44-0				
202	3803881	7.33	7.32	80-120	100	()
203	715785	7.33	7.32	0- 47	19	()
101	544030	7.33	7.32	0- 43	14	()

79 Pyrene		CAS#: 129-00-0				
202	4008415	7.47	7.46	80-120	100	()
200	884802	7.47	7.46	0- 51	22	()
101	716333	7.47	7.46	0- 46	18	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	1867575	8.17	8.16	80-120	100	()
226	517108	8.17	8.16	0- 57	28	()
229	526893	8.17	8.16	0- 50	28	()

92 Chrysene		CAS#: 218-01-9				
228	2066060	8.19	8.19	80-120	100	()
229	506840	8.19	8.19	0- 50	25	()
226	622973	8.19	8.19	0- 59	30	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	1768777	8.98	8.97	80-120	100	()
253	401827	8.98	8.97	0- 52	23	()
125	300656	8.98	8.96	0- 44	17	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	1769903	8.98	8.99	80-120	100	()
253	411340	8.98	8.99	0- 52	23	()
125	302617	8.98	8.99	0- 48	17	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	920587	9.29	9.28	80-120	100	()
253	222150	9.29	9.28	0- 52	24	()
125	154233	9.29	9.28	0- 48	17	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	331809	10.61	10.60	80-120	100	()
138	124212	10.61	10.60	14- 74	37	()

100 Dibenzo(a,h)anthracene		CAS#: 53-70-3				
278	101807	10.62	10.61	80-120	100	()
139	11924	10.62	10.60	0- 60	12	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
101	Benzo(ghi)perylene			CAS#: 191-24-2		
276	271926	11.01	10.99	80-120	100	()
138	103961	11.01	10.99	9- 69	38	()

 Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD3.i/s031310.b/s3c1335.d
Report Date: 14-Mar-2010 17:04

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Data file : /chem/MSD3.i/s031310.b/s3c1335.d
Lab Smp Id: 248197011 Client Smp ID: RE36-10-7425
Inj Date : 13-MAR-2010 22:04
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197011|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 34
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclpl

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.13550	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 67 Phenanthrene-d10	6.594	6438157	40.000
* 91 Chrysene-d12	8.177	11288936	40.000
* 98 Perylene-d12	9.343	2463519	40.000

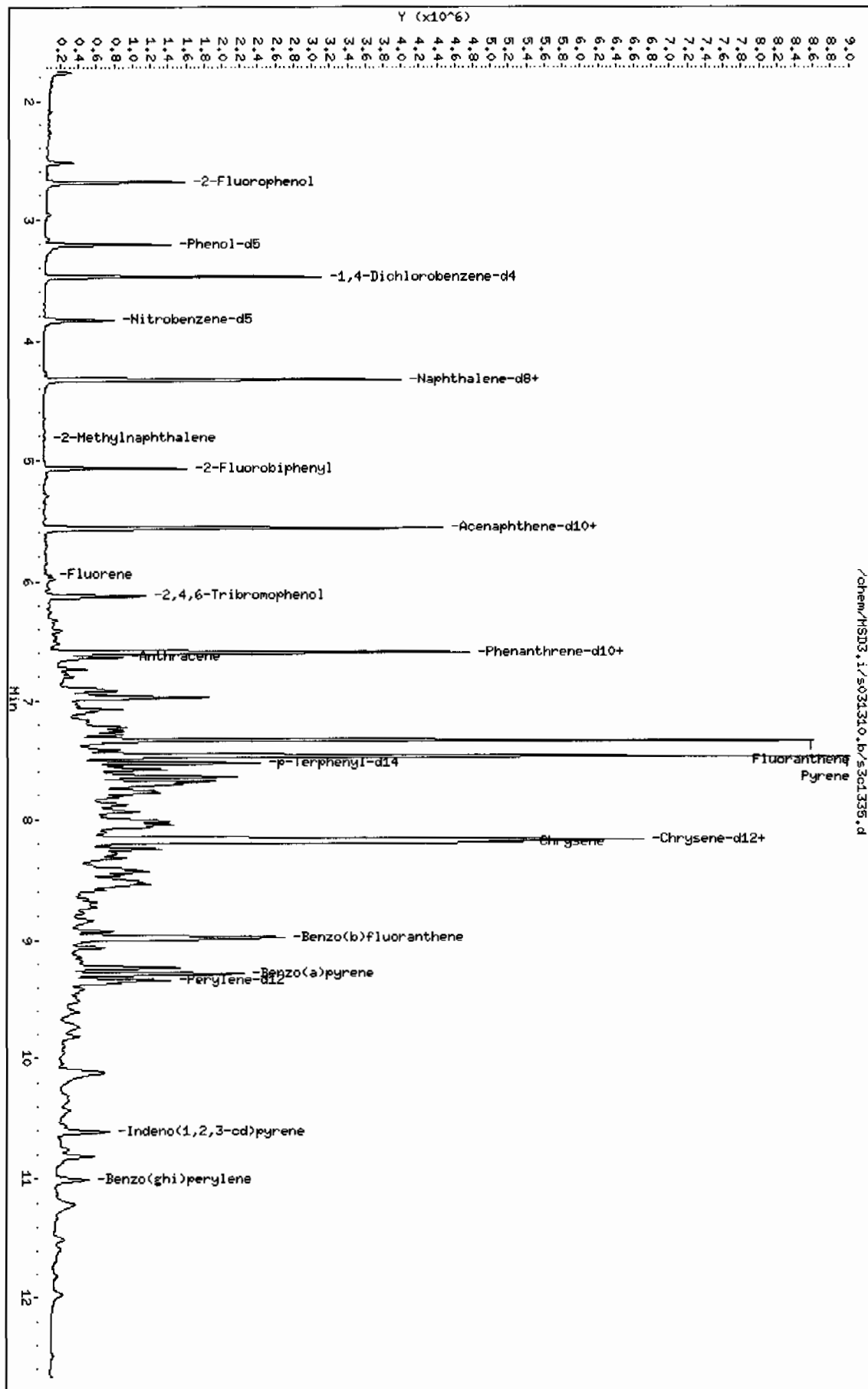
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Phenanthrene, 2-methyl-					CAS #: 2531-84-2		
6.914	1676351	10.4150973	888	98	NIST05.L	51412	67
Unknown					CAS #:		
6.973	2714887	16.8674744	1440	0		0	67
di-p-Tolylacetylene					CAS #: 2789-88-0		
7.225	1583070	9.83554595	839	93	NIST05.L	61575	67
Unknown					CAS #:		
7.257	1535443	9.53964019	814	0		0	67
Pyrene, 1-methyl-					CAS #: 2381-21-7		
7.583	2077431	7.36094388	628	96	NIST05.L	68689	91
11H-Benzo[b]fluorene					CAS #: 243-17-4		
7.647	3789847	13.4285343	1140	96	NIST05.L	68695	91
Unknown					CAS #:		
7.685	3225018	11.4271823	974	0		0	91
Unknown					CAS #:		
7.706	3358378	11.8997142	1010	0		0	91
Unknown					CAS #:		
7.765	1526317	5.40818591	461	0		0	91
Unknown					CAS #:		
7.781	1931546	6.84403118	584	0		0	91
Pyrene, 1,3-dimethyl-					CAS #: 64401-21-4		
7.883	2705904	9.58780761	818	83	NIST05.L	78799	91
11H-Benzo[a]fluoren-11-one					CAS #: 479-79-8		
7.941	2816456	9.97952694	851	96	NIST05.L	78768	91
Benzo[c]phenanthrene					CAS #: 195-19-7		
8.022	3414967	12.1002264	1030	90	NIST05.L	77469	91
Unknown					CAS #:		
8.048	2260727	8.01041759	683	0		0	91
11H-Benzo[a]fluoren-11-one					CAS #: 479-79-8		
8.070	2169391	7.68678697	656	97	NIST05.L	78768	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
8.246	2117063	7.50137374	640	0		0	91
4b,10b-Dihydro-4b,10b-methanochrysene					CAS #: 71949-03-6		
8.412	2340796	8.29412413	707	95	NIST05.L	86939	91
Chrysene, 1-methyl-					CAS #: 3351-28-8		
8.433	1728473	6.12448599	522	97	NIST05.L	86909	91
Unknown					CAS #:		
8.514	2565692	9.09099819	775	0		0	91
4b,10b-Dihydro-4b,10b-methanochrysene					CAS #: 71949-03-6		
8.535	2705628	9.58683108	818	89	NIST05.L	86939	91
Perylene					CAS #: 198-55-0		
9.236	2616310	42.4808424	3620	99	NIST05.L	93574	98
Unknown					CAS #:		
9.739	1632263	26.5029398	2260	0		0	98
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,					CAS #: 1000210-38-4		
10.118	3160204	51.3120119	4380	97	NIST05.L	167337	98
1,2:7,8-Dibenzophenanthrene					CAS #: 213-46-7		
10.814	1696363	27.5437243	2350	99	NIST05.L	110884	98

Data File: /chem/MSD3.1/s031310.b/s3c1335.d
 Date: 13-MAR-2010 22:04
 Client ID: RE36-10-7425
 Sample Info: 1248197011.960459121SVHF11.LNLN
 Volume Injected (uL): 0.5
 Column phase: 3uM DB-SMS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3,i

Sample Info: I248197011/96045912/ISVMF11/LANL

Volume Injected (uL): 0.5

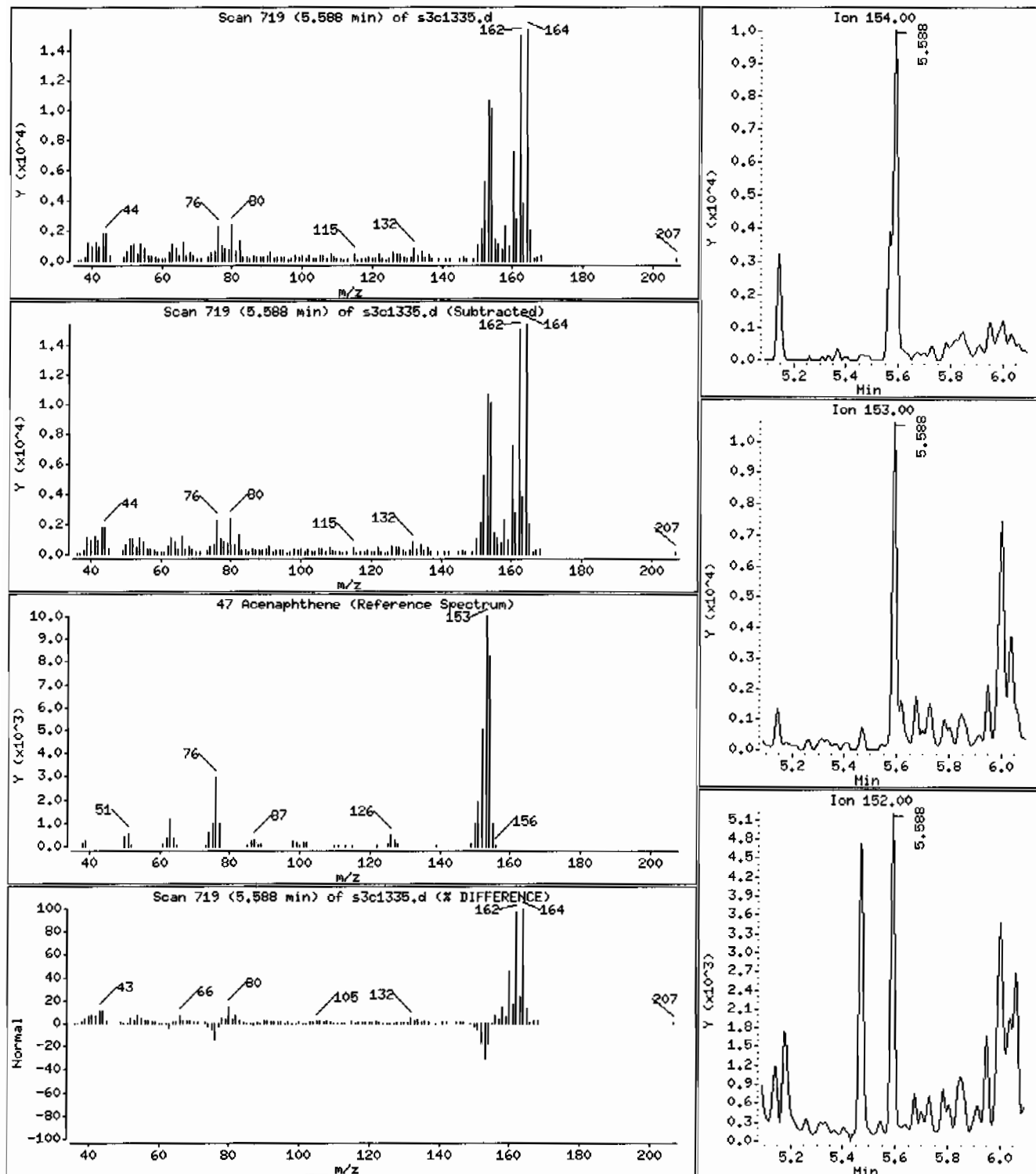
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

47 Acenaphthene

Concentration: 35.3 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 12481970111960459121SVMF11ILANL

Volume Injected (uL): 0.5

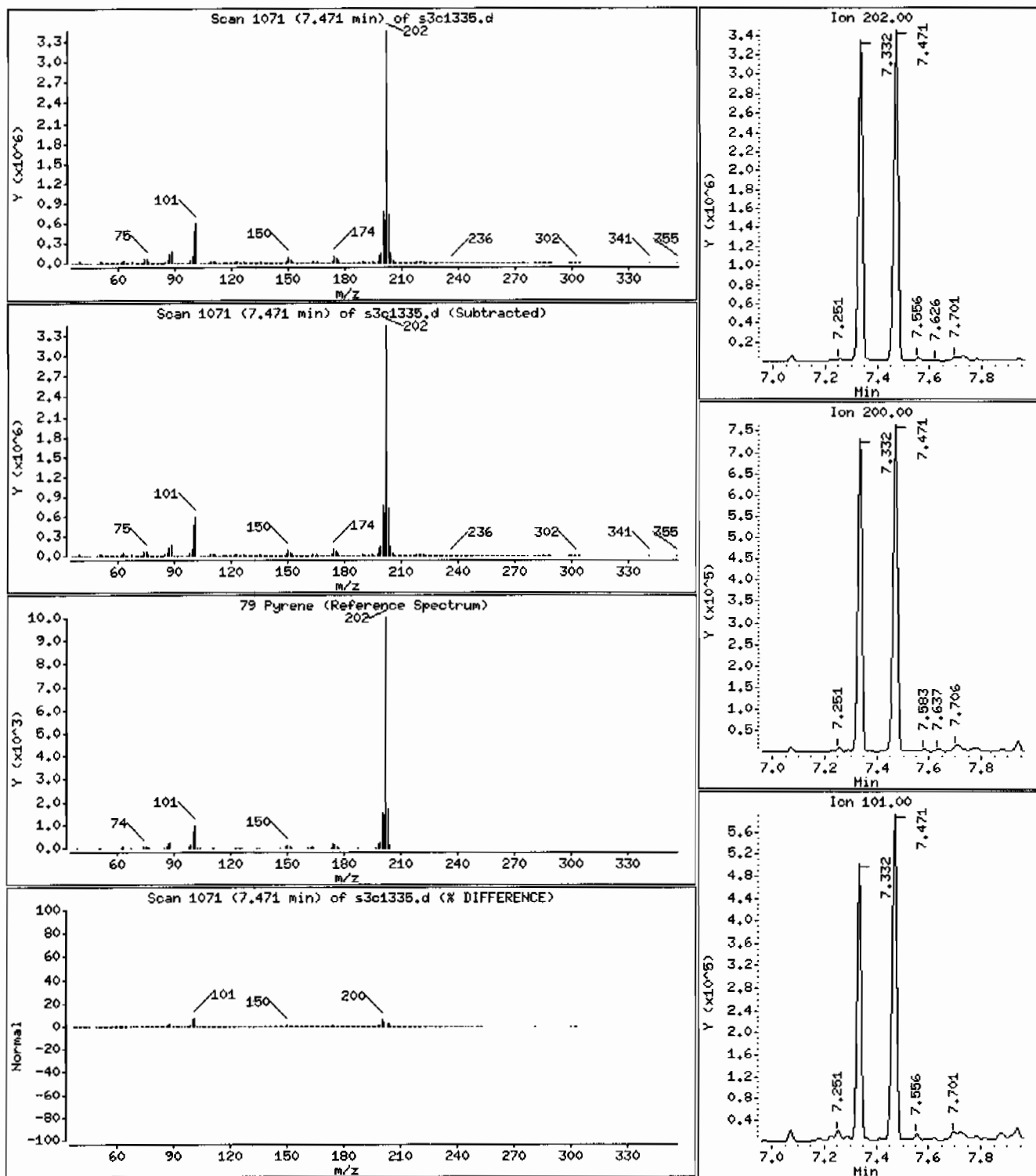
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 10800 ug/Kg



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011|960459|2|SVHF|1|LANL

Volume Injected (uL): 0.5

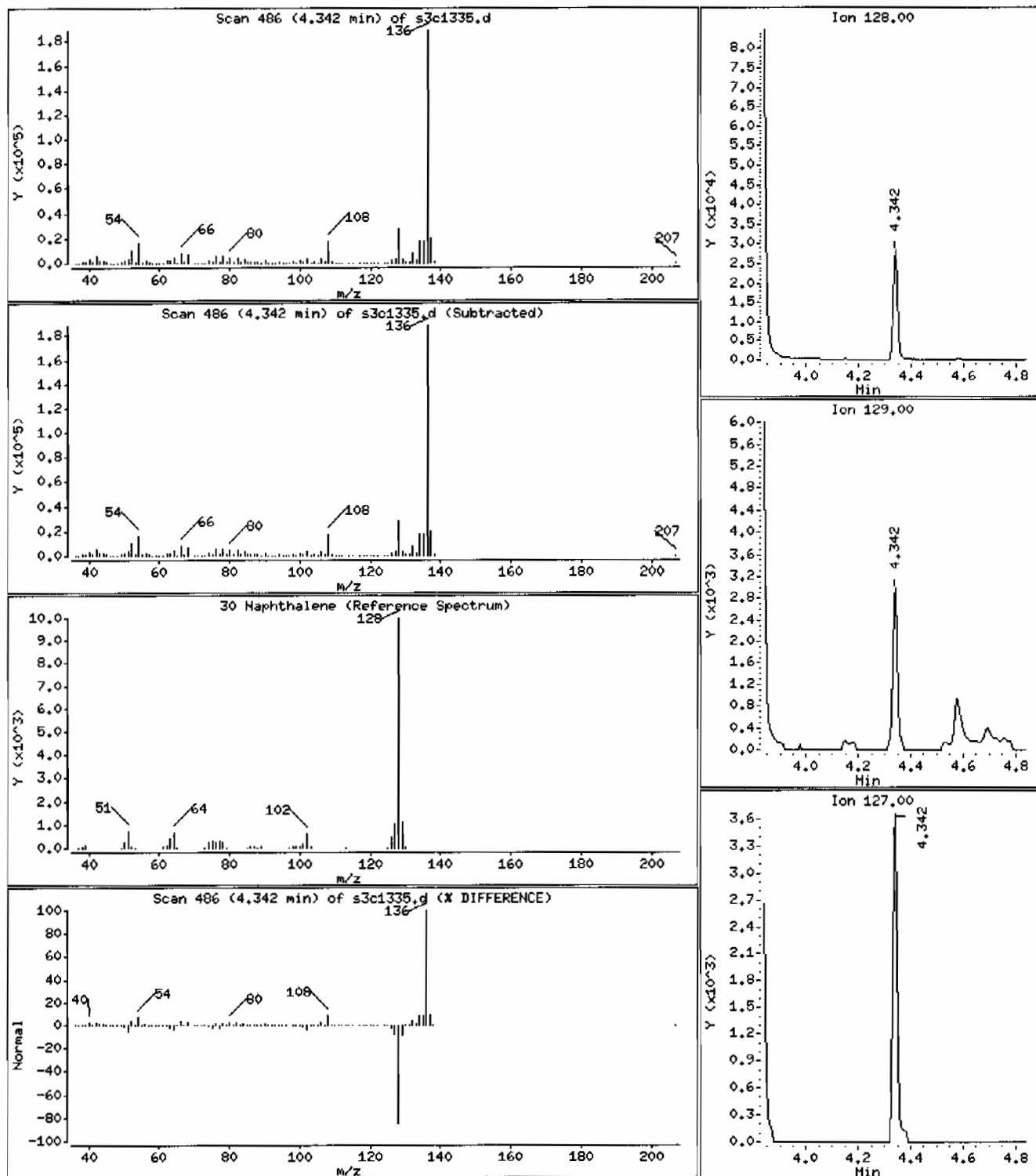
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

30 Naphthalene

Concentration: 66.1 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011196045912ISVMF11ILANL

Volume Injected (uL): 0.5

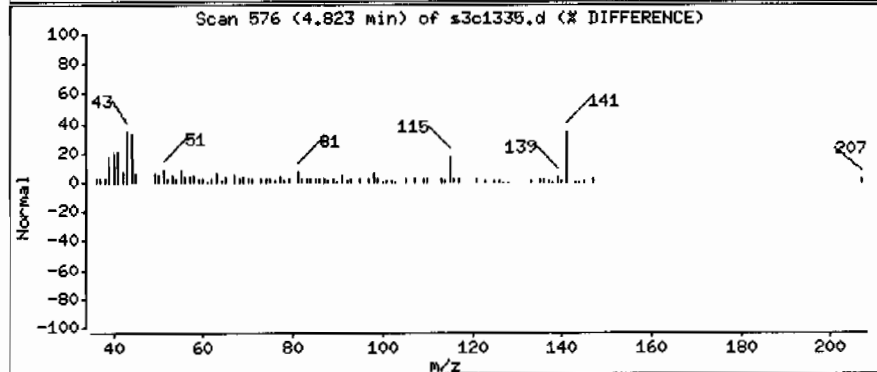
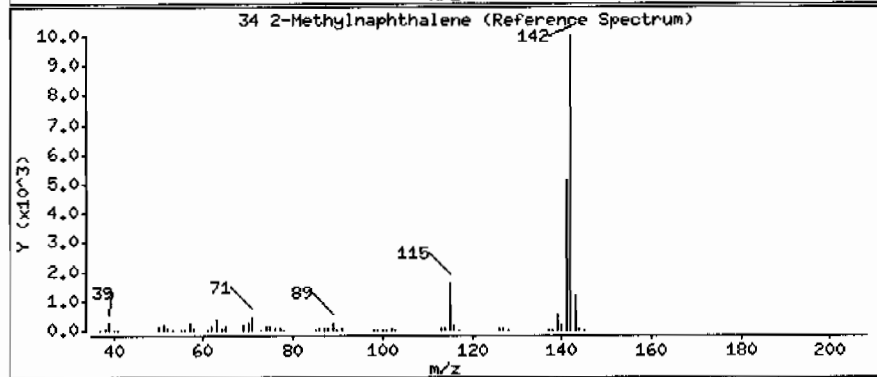
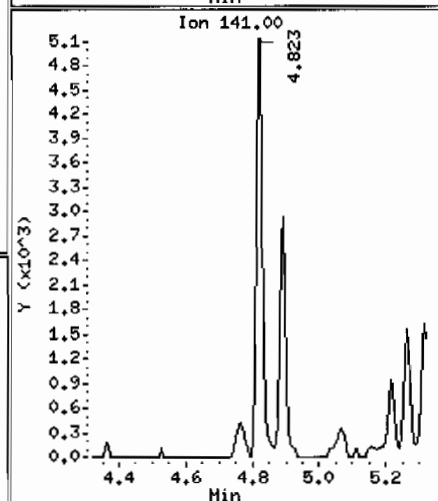
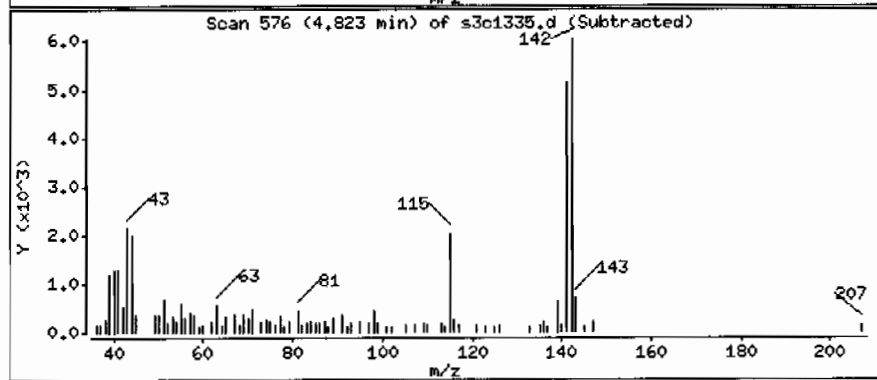
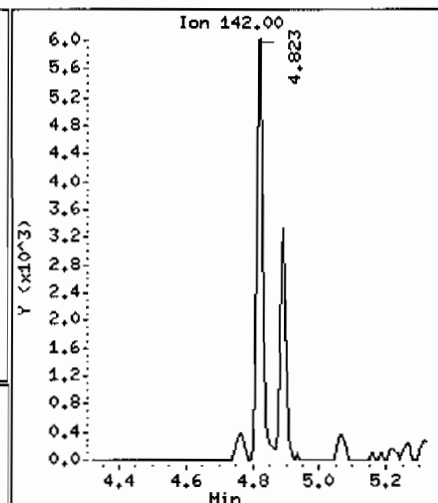
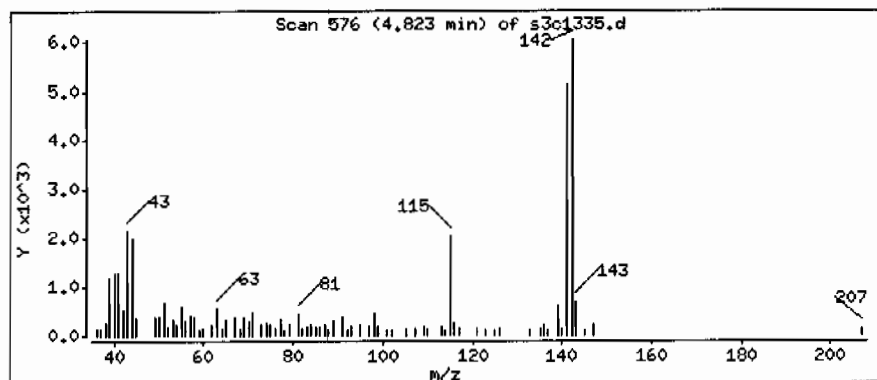
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

34 2-Methylnaphthalene

Concentration: 23.5 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011960459121SVMF111LANL

Volume Injected (uL): 0.5

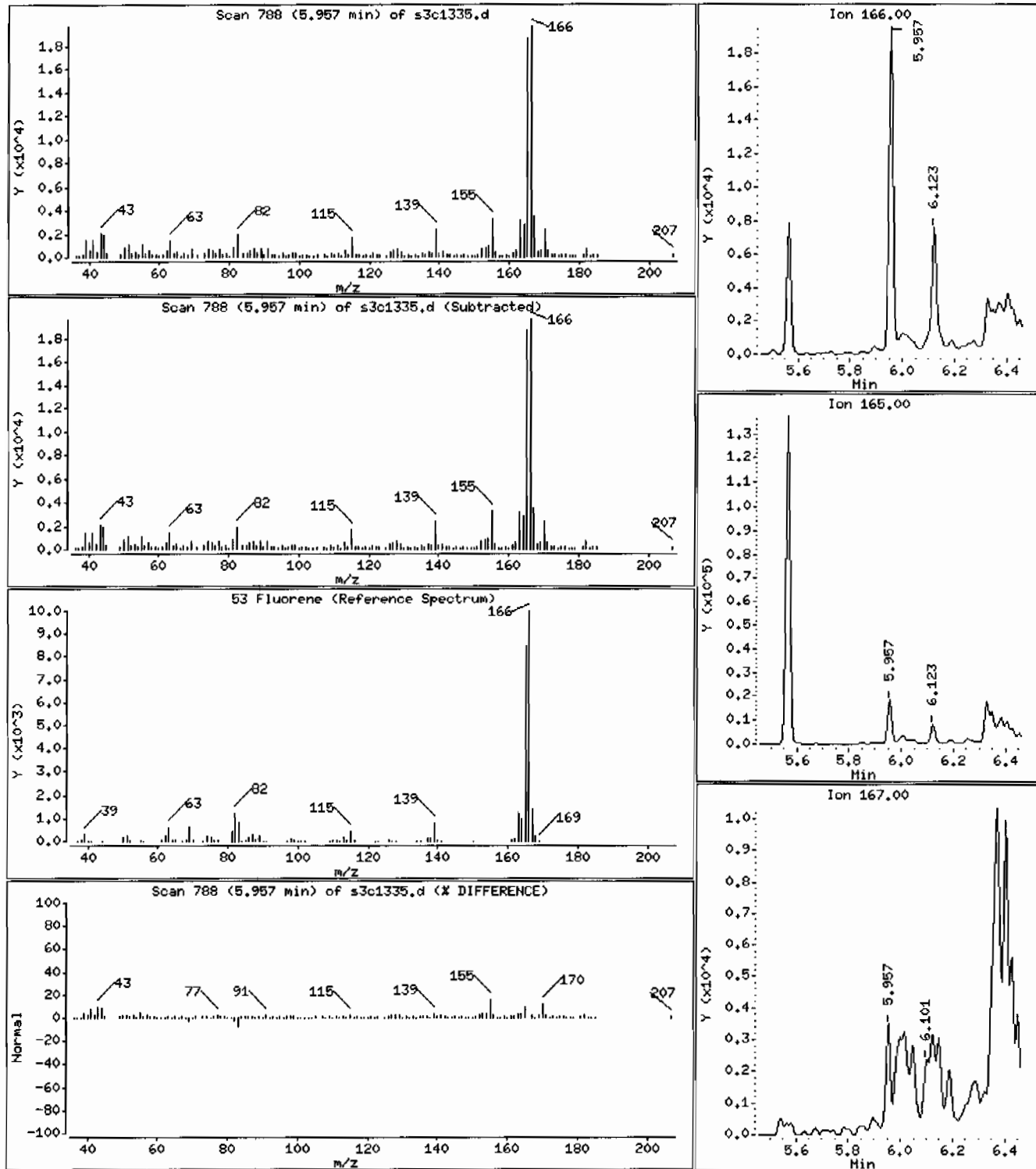
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 60,5 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011/960459121SVHF11ILANL

Volume Injected (uL): 0.5

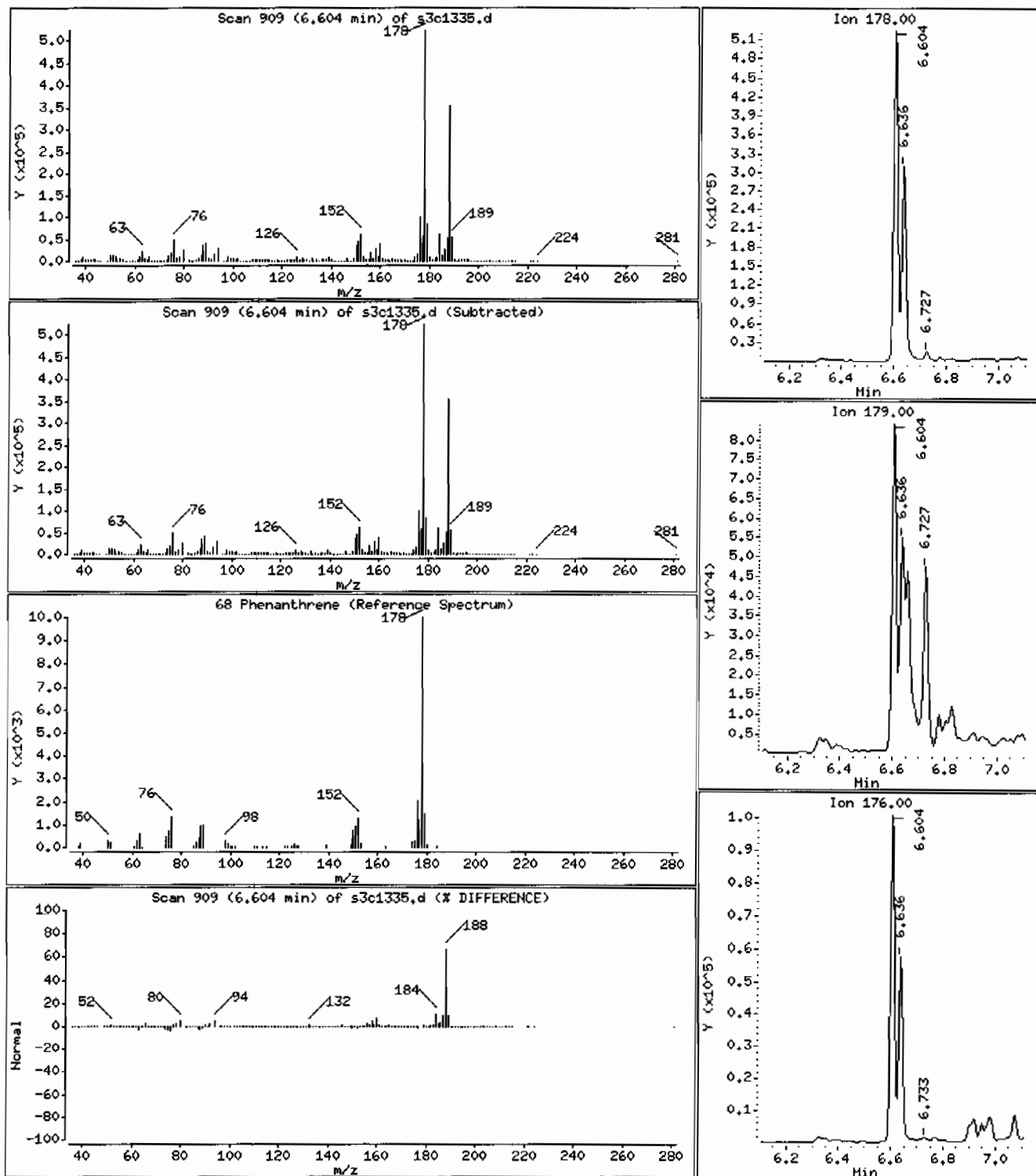
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 1170 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011/960459121SVHF11ILANL

Volume Injected (uL): 0.5

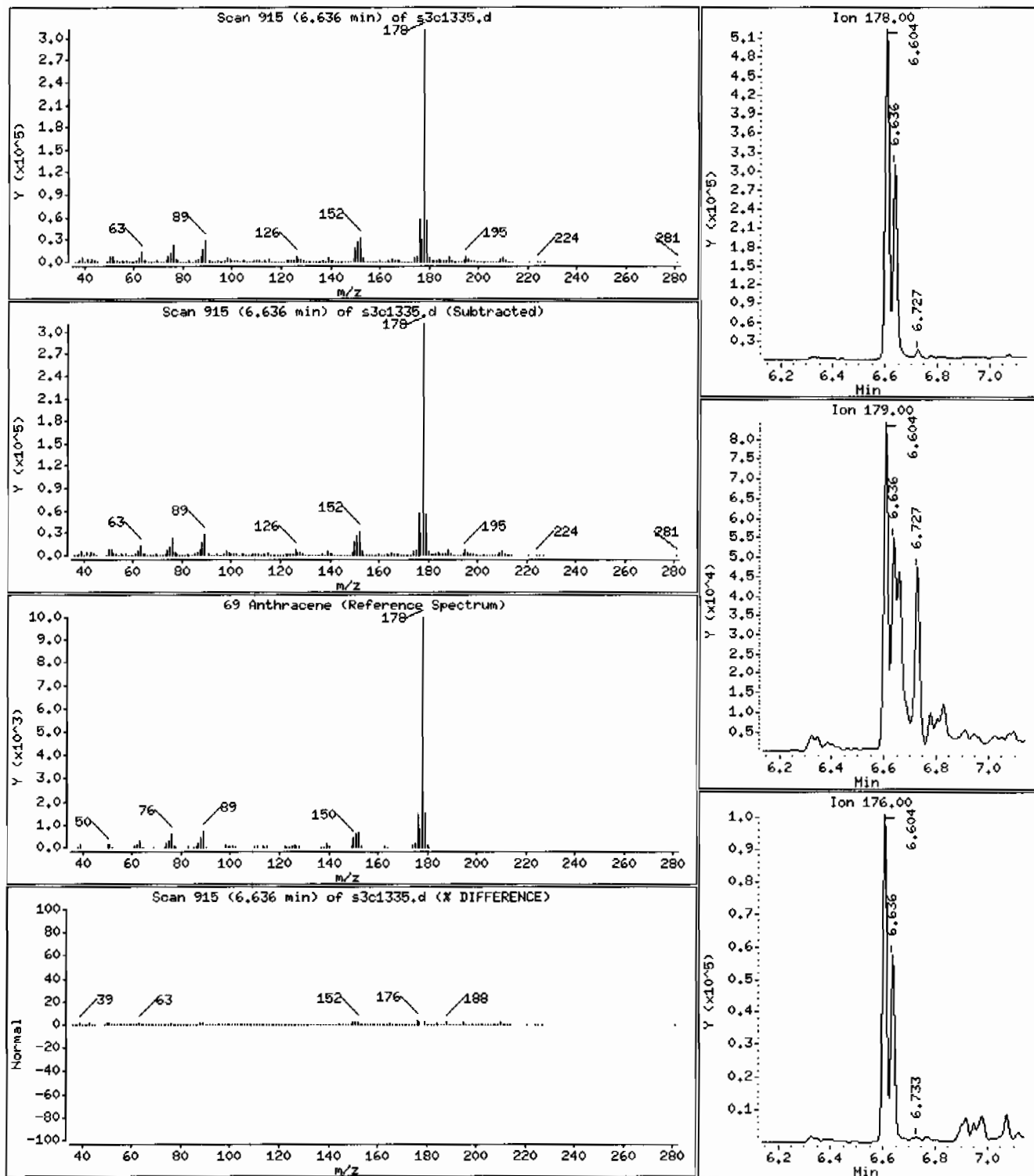
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 709 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

Volume Injected (uL): 0.5

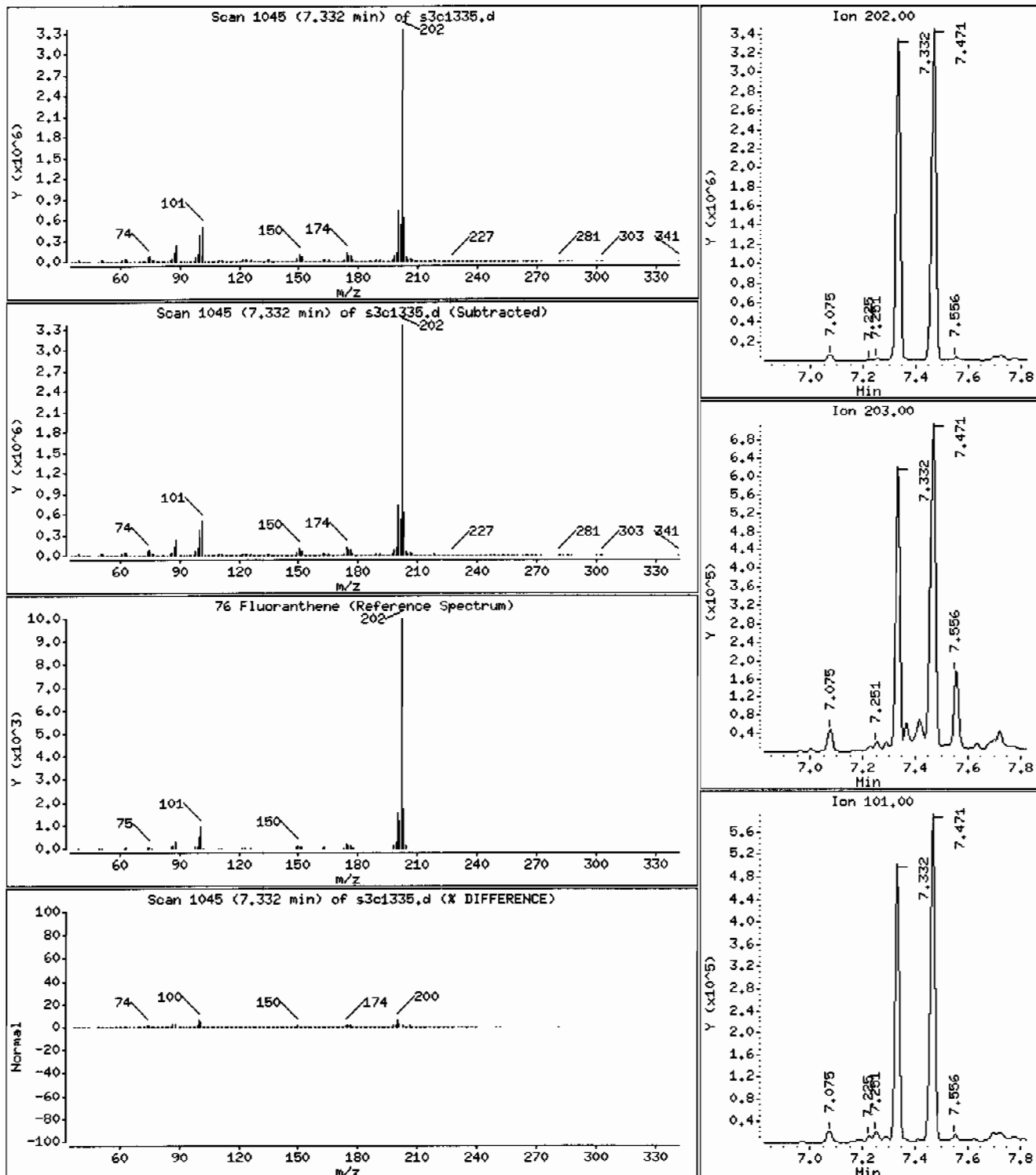
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 8250 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF111LANL

Volume Injected (uL): 0.5

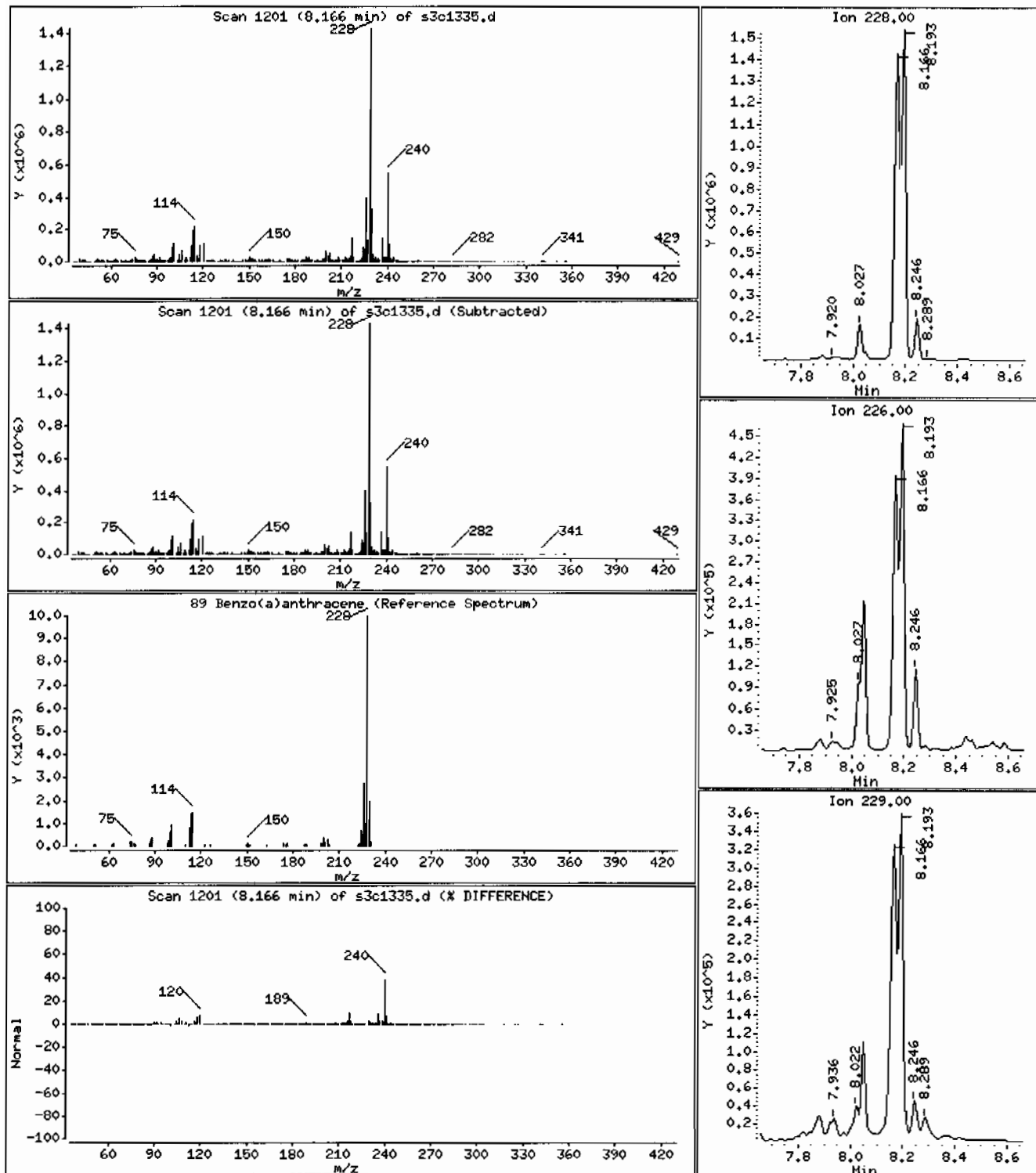
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 6250 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011960459121SVHF111LANL

Volume Injected (uL): 0.5

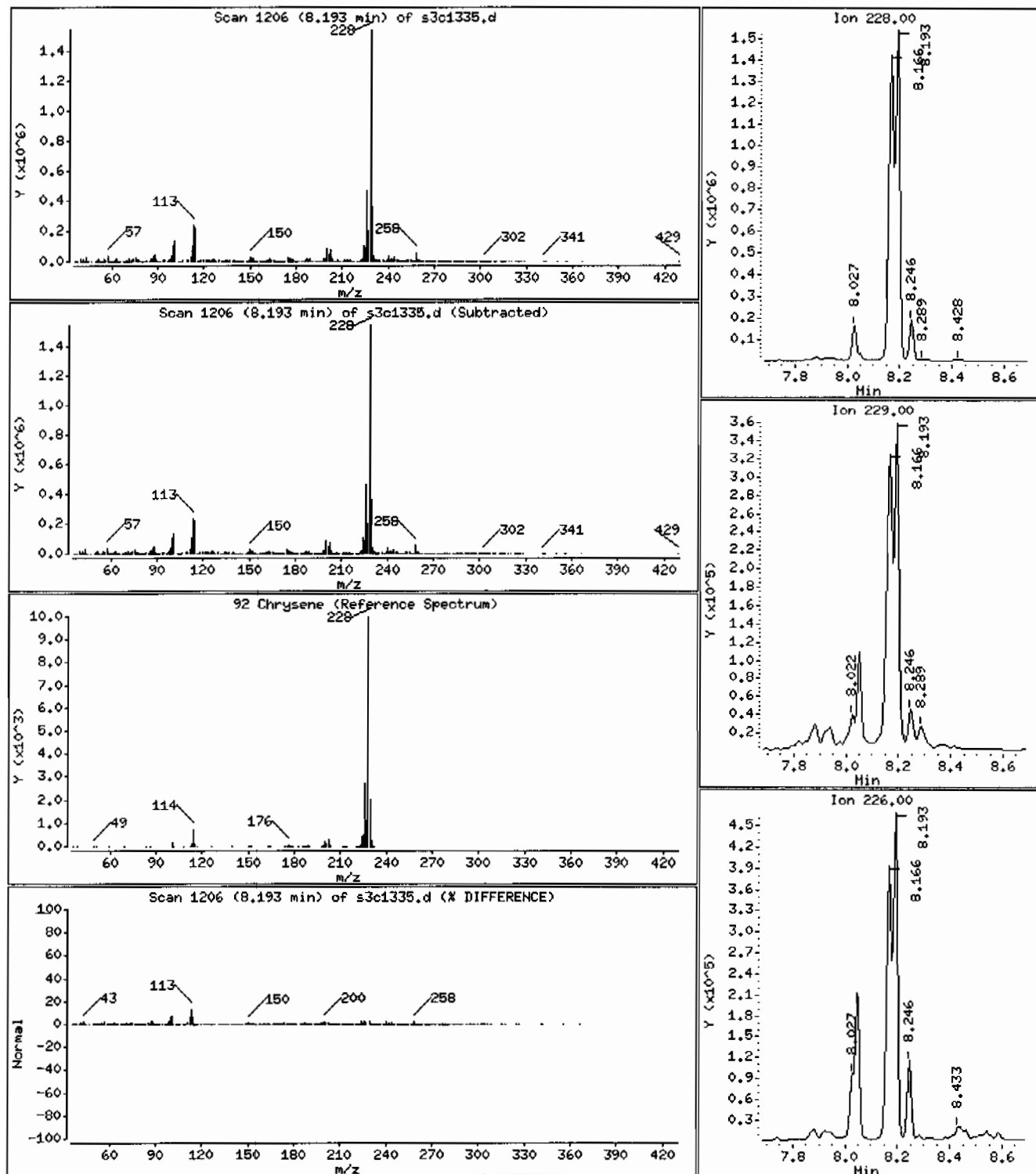
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 6760 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

Volume Injected (uL): 0.5

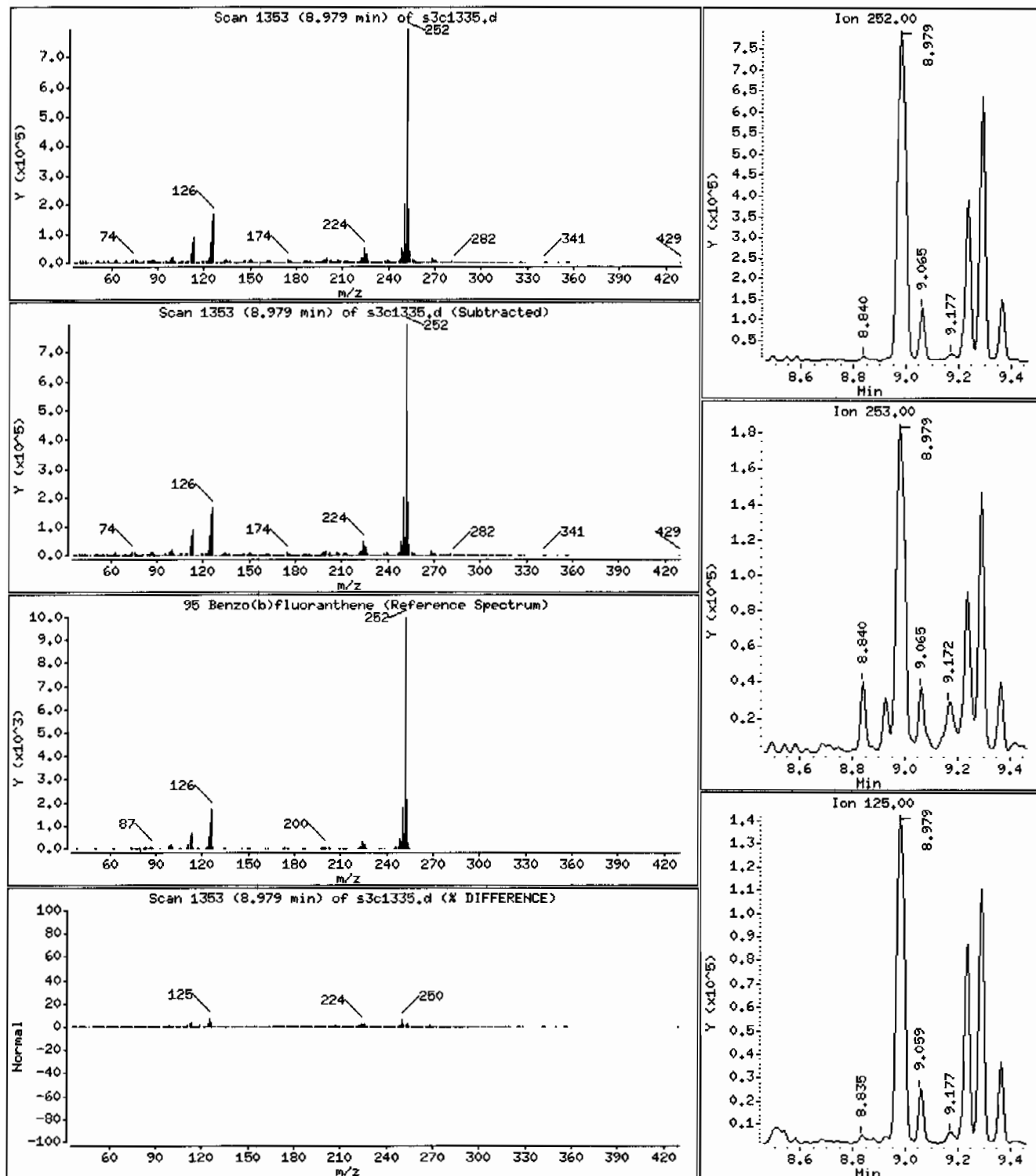
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 10800 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011196045912|SVHF11|LANL

Volume Injected (uL): 0.5

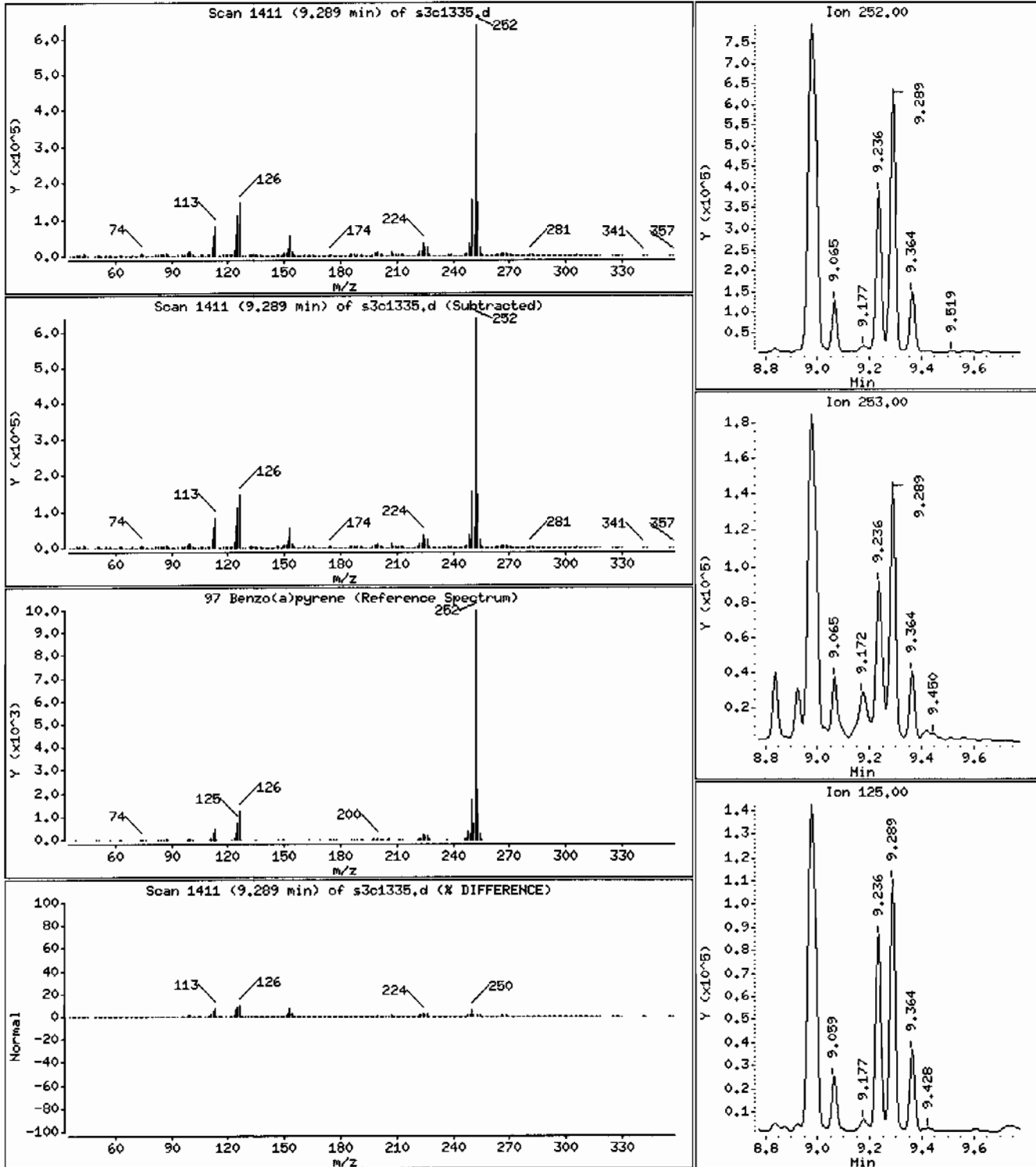
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 6520 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011/960459121SVHF11/LANL

Volume Injected (uL): 0.5

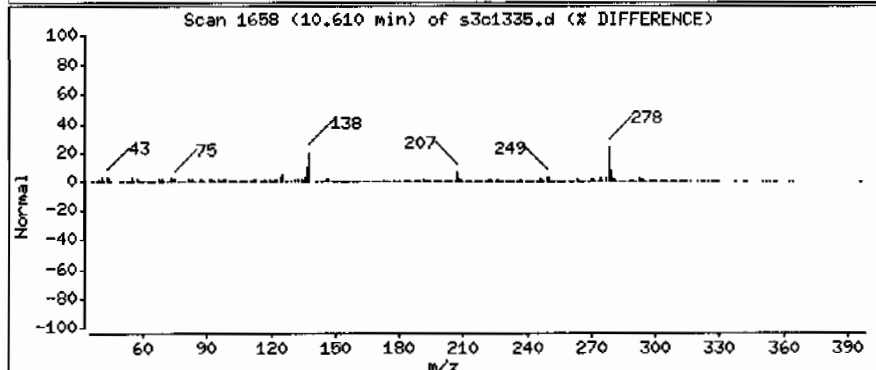
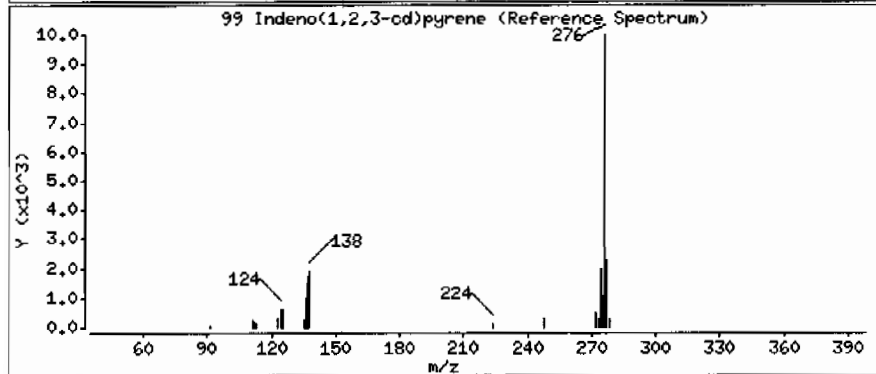
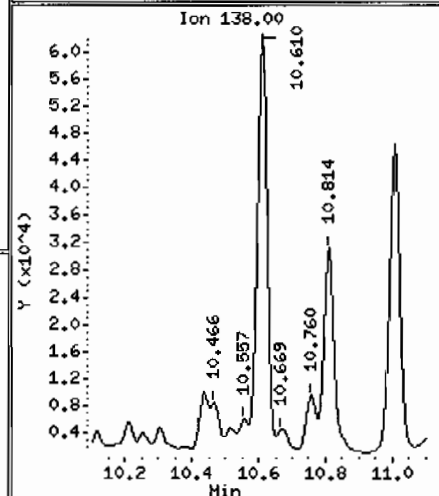
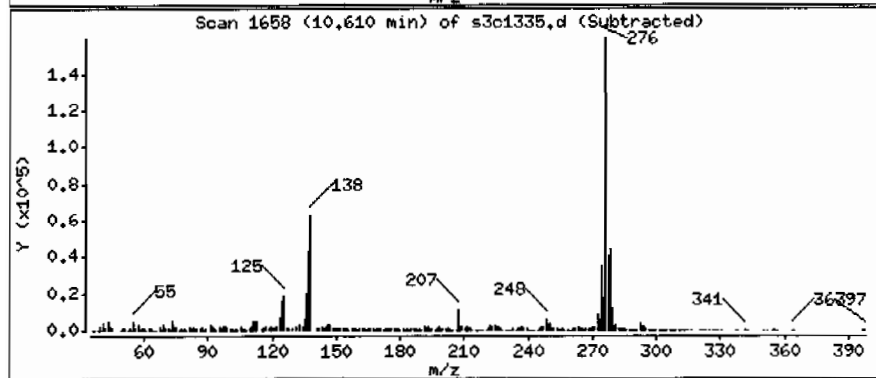
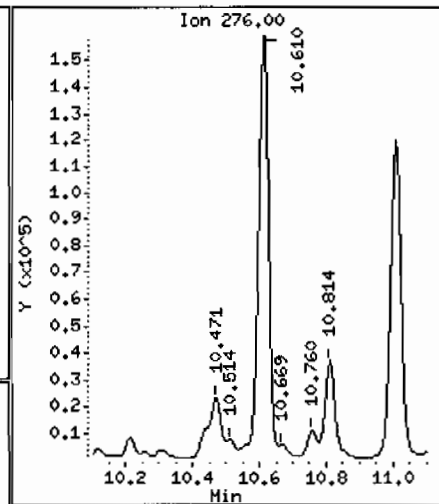
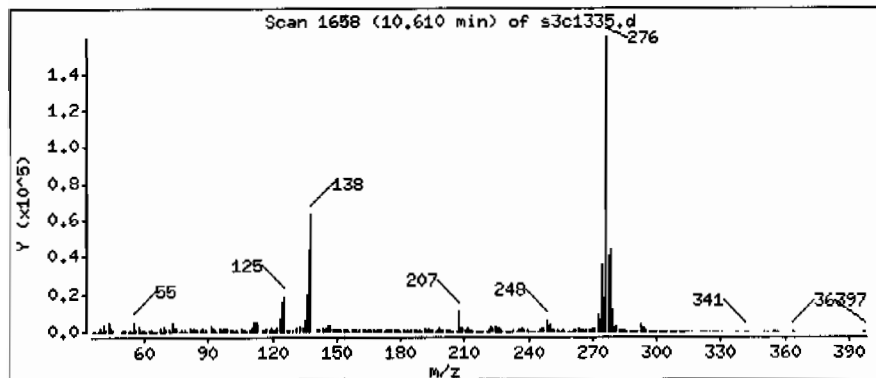
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 2720 ug/Kg



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF11ILANL

Volume Injected (uL): 0.5

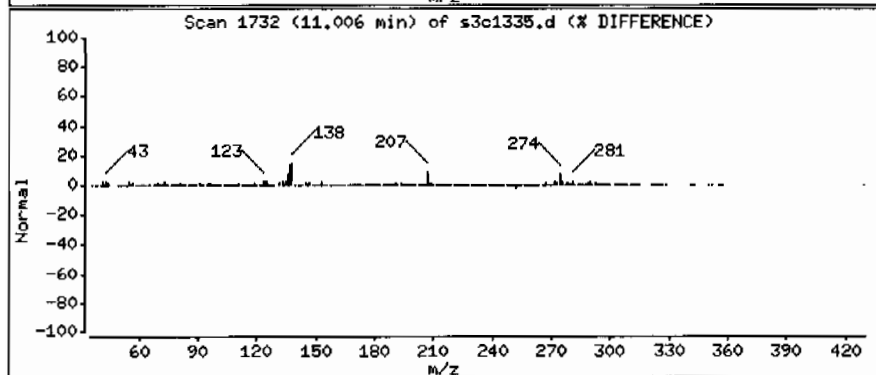
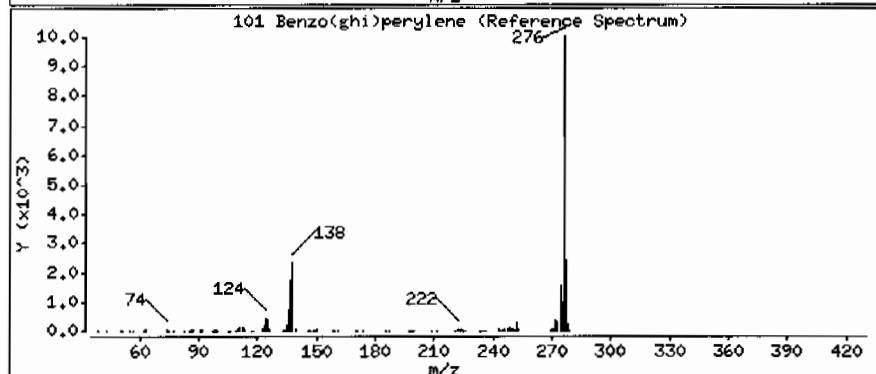
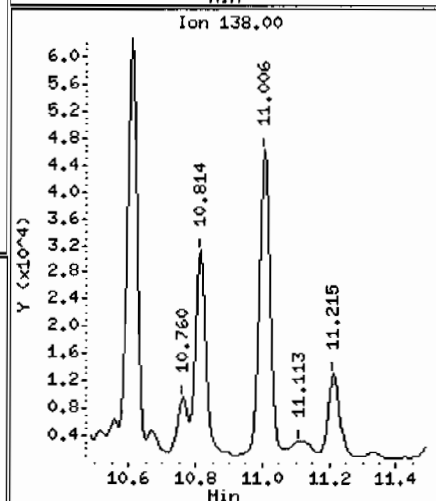
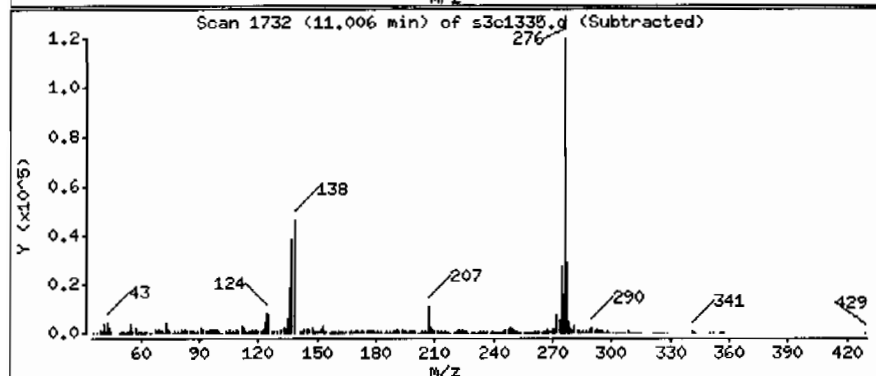
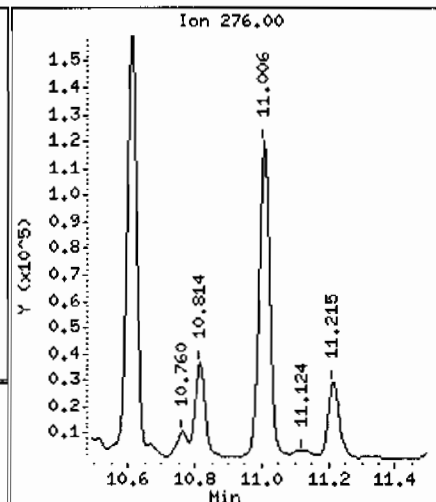
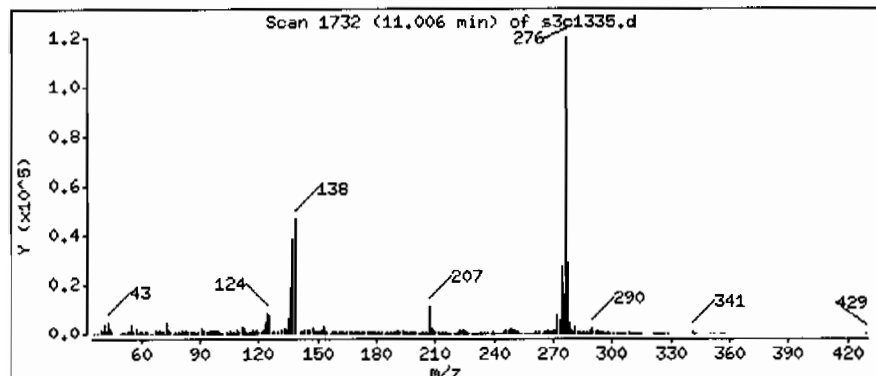
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 2720 ug/Kg



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF111LANL

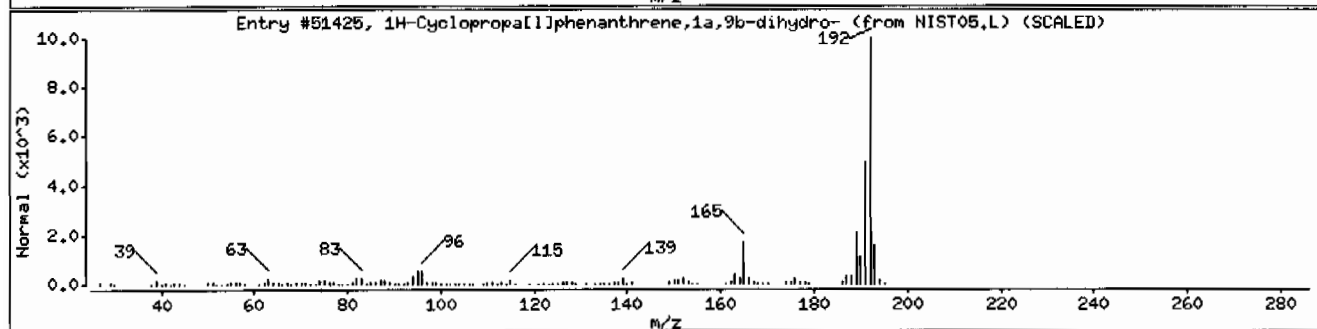
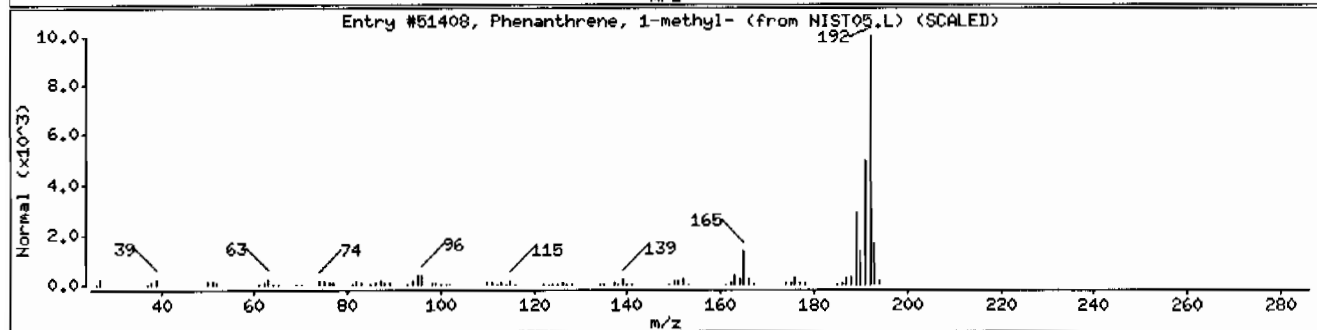
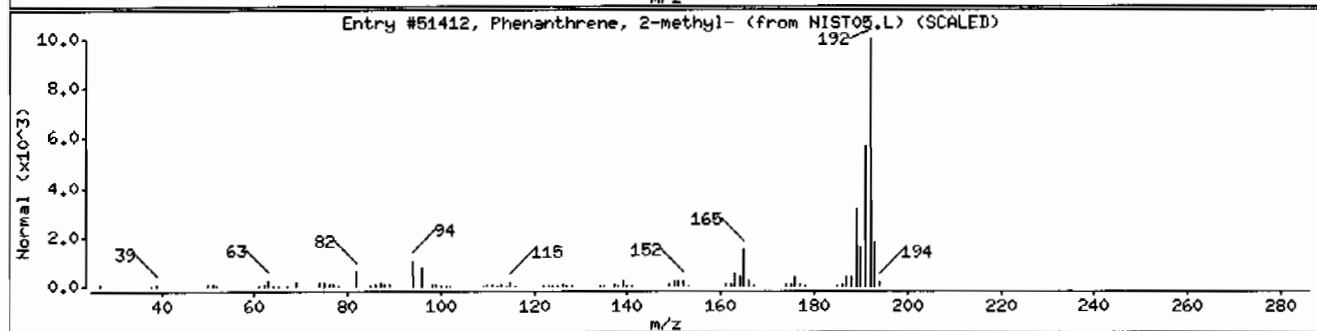
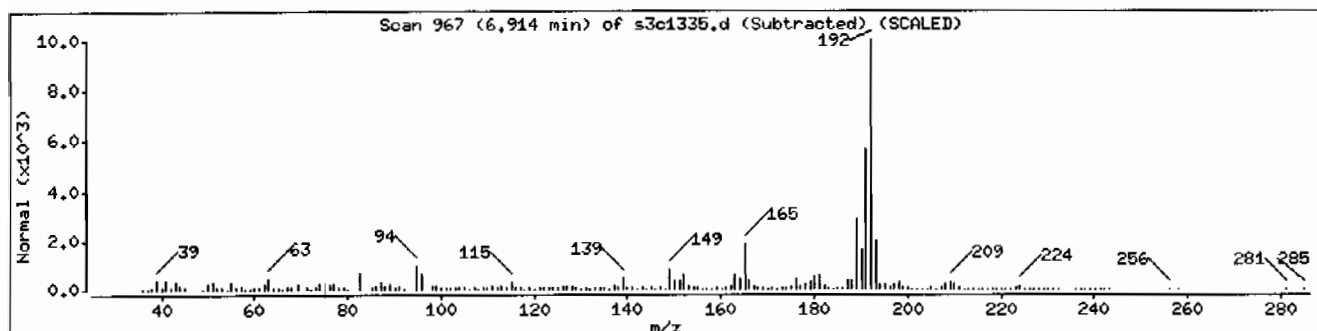
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenanthrene, 2-methyl-	2531-84-2	NIST05.L	51412	98	C15H12	192
Phenanthrene, 1-methyl-	832-69-9	NIST05.L	51408	96	C15H12	192
1H-Cyclopropa[1]phenanthrene,1a,9b-dihyd	949-41-7	NIST05.L	51425	95	C15H12	192



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011196045912ISVMF11ILANL

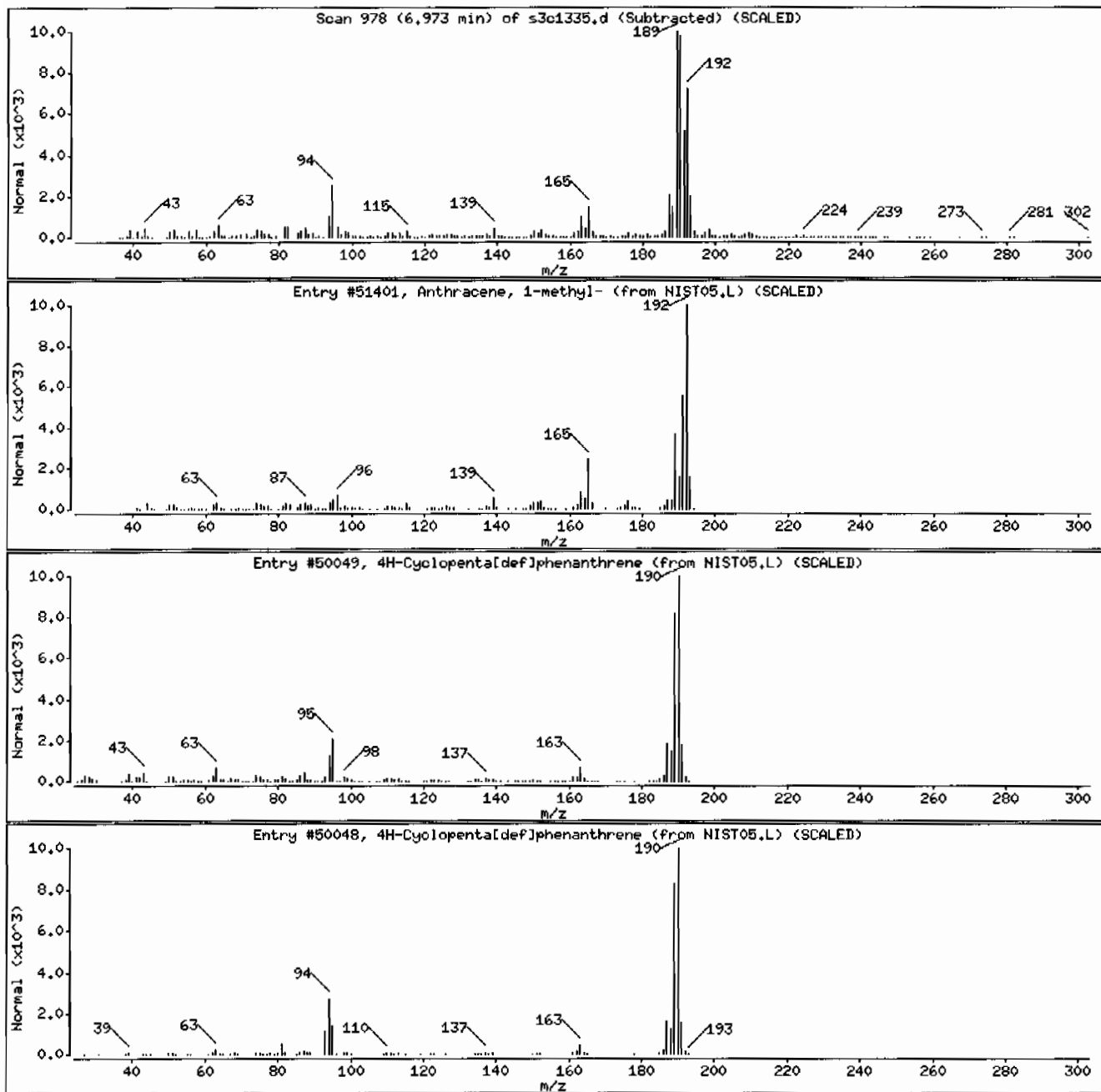
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Anthracene, 1-methyl-	610-48-0	NIST05.L	51401	64	C15H12	192
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50049	60	C15H10	190
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50048	58	C15H10	190



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

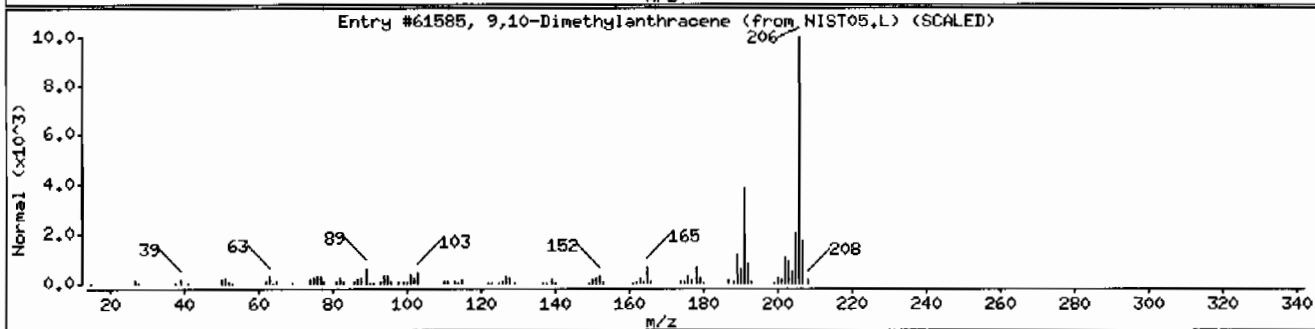
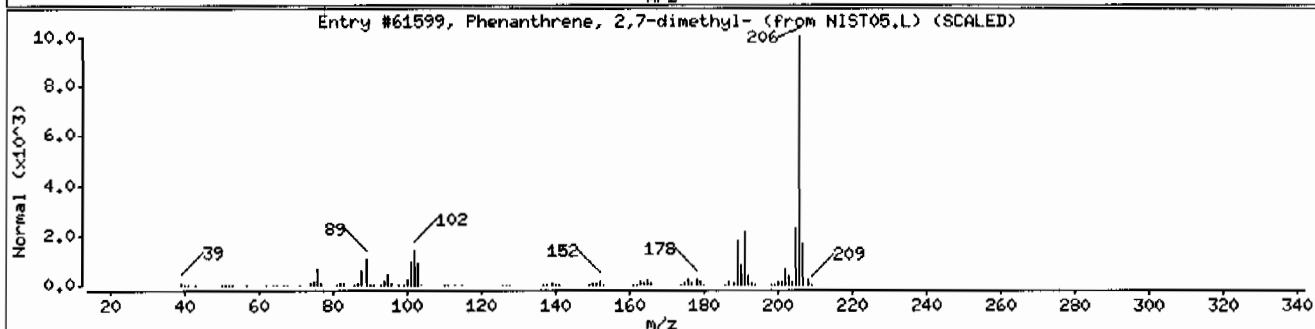
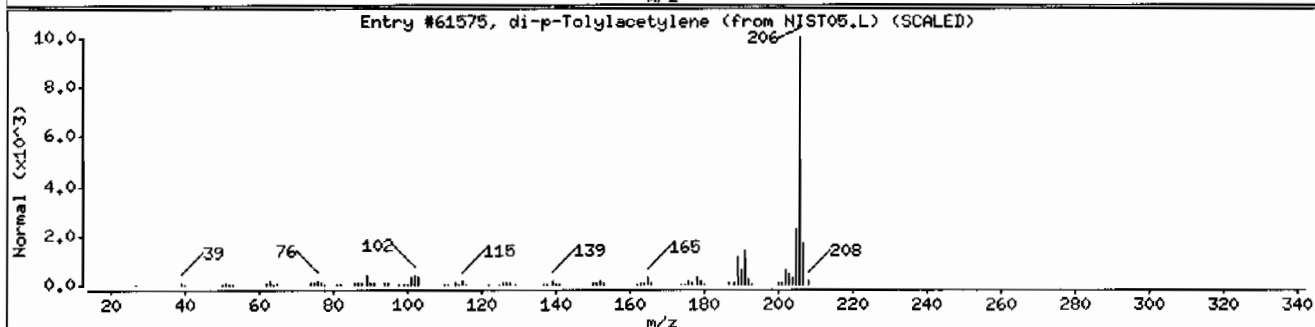
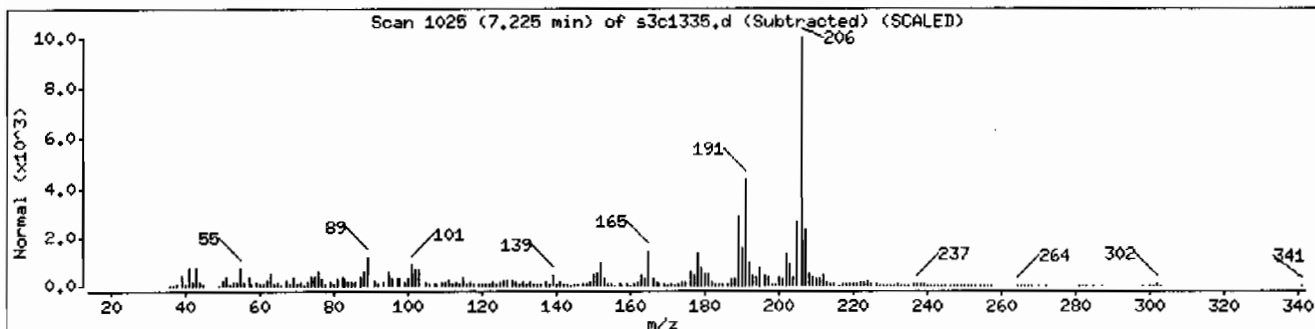
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
di-p-Tolylacetylene	2789-88-0	NIST05.L	61575	93	C16H14	206
Phenanthrene, 2,7-dimethyl-	1576-69-8	NIST05.L	61599	93	C16H14	206
9,10-Dimethylanthracene	781-43-1	NIST05.L	61585	91	C16H14	206



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011960459121SVMF11ILANL

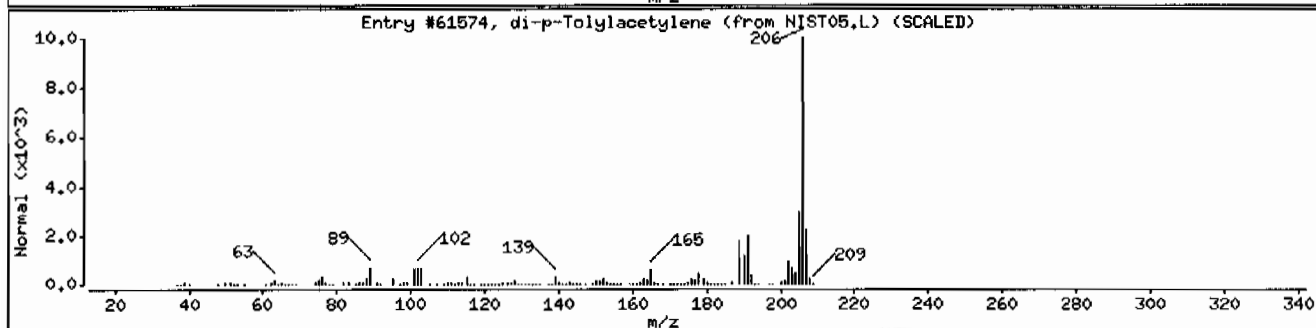
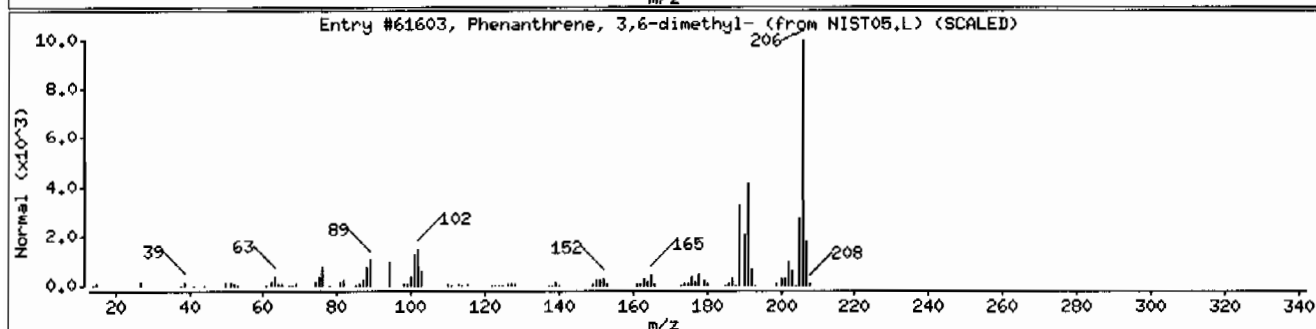
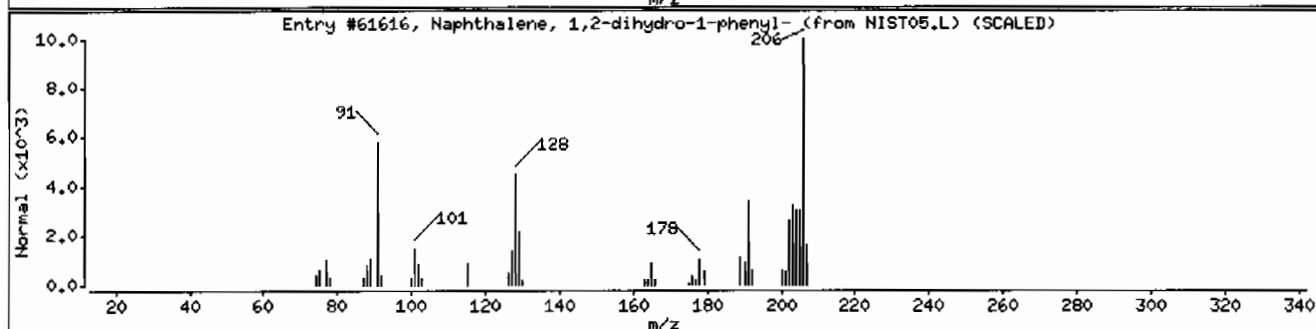
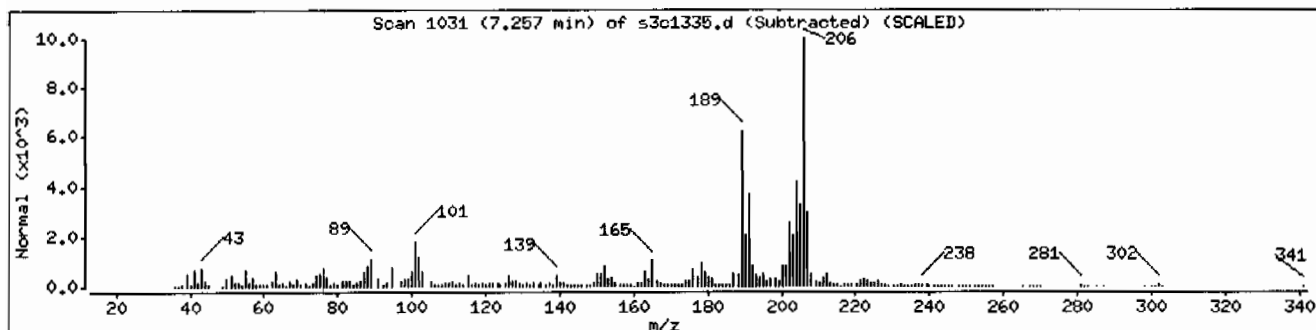
Volume Injected (uL): 0.5

Operator: JLD1

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-dihydro-1-phenyl-	16606-46-5	NIST05.L	61616	64	C16H14	206
Phenanthrene, 3,6-dimethyl-	1576-67-6	NIST05.L	61603	60	C16H14	206
di-p-Tolylacetylene	2789-88-0	NIST05.L	61574	53	C16H14	206



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011960459121SVHF11ILANL

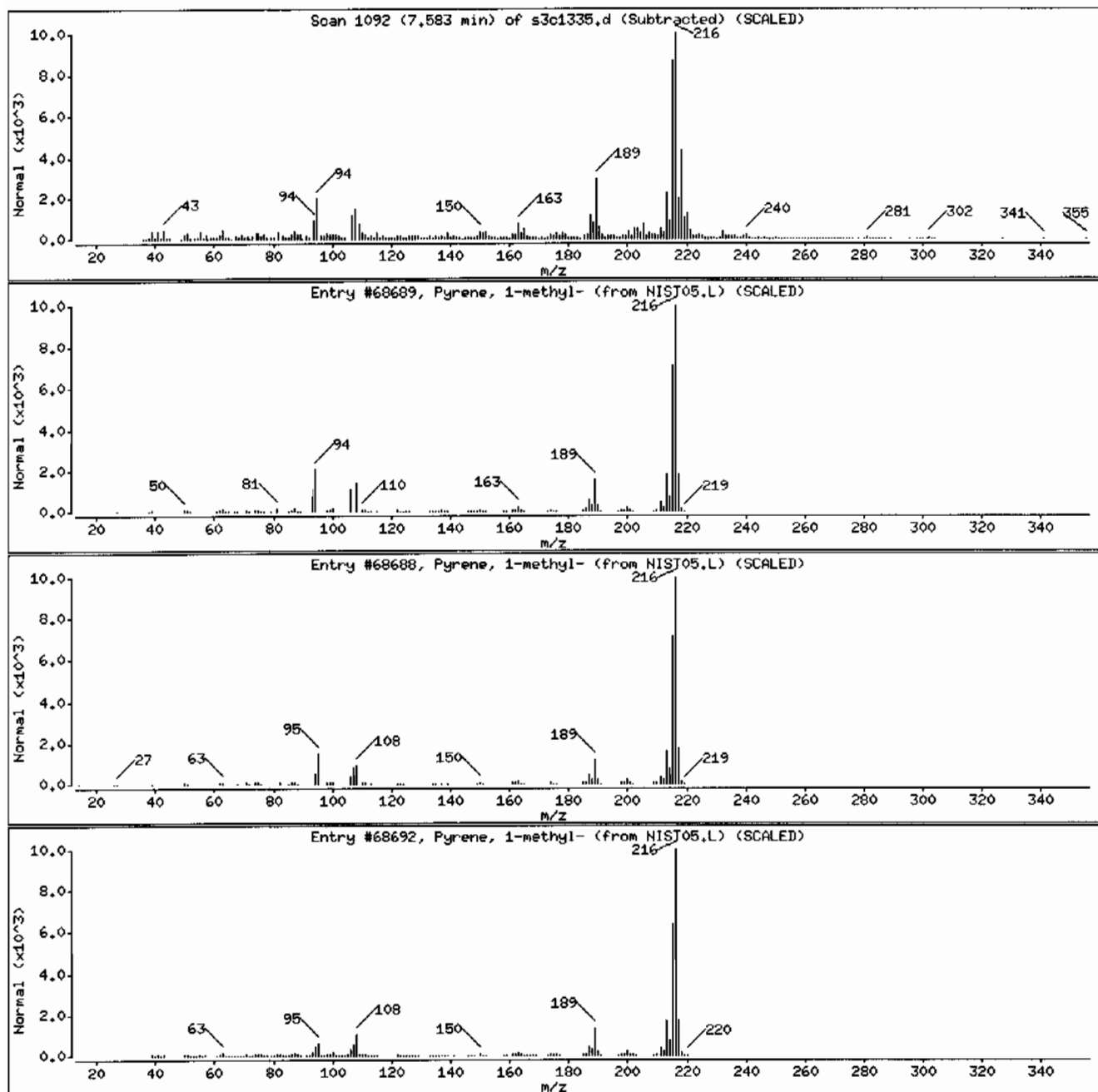
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	96	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68692	94	C17H12	216



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 12481970111960459121SVHF111LANL

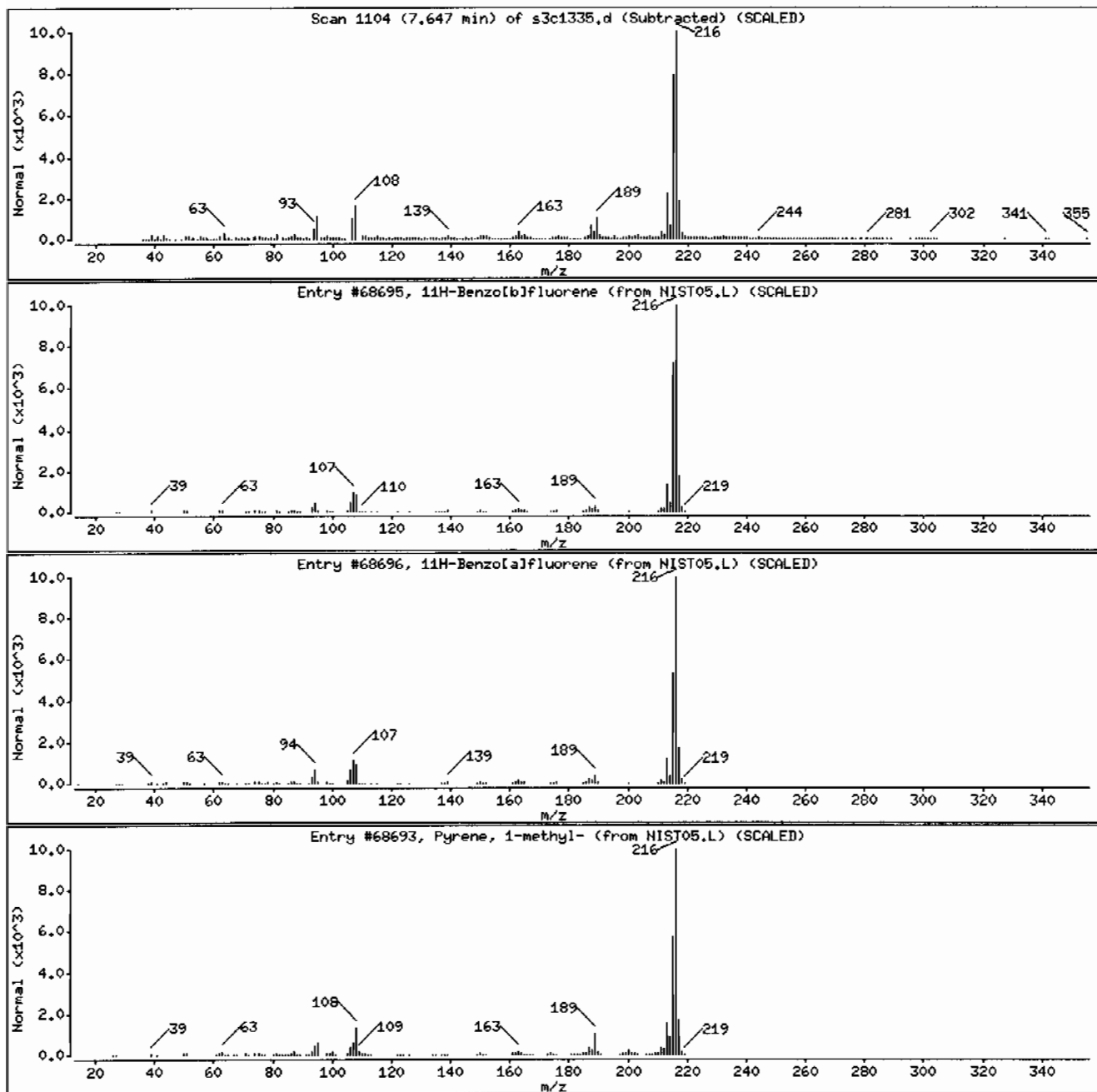
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	96	C17H12	216
11H-Benzo[a]fluorene	238-84-6	NIST05.L	68696	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68693	93	C17H12	216



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011/96045912/ISVMF11/LANL

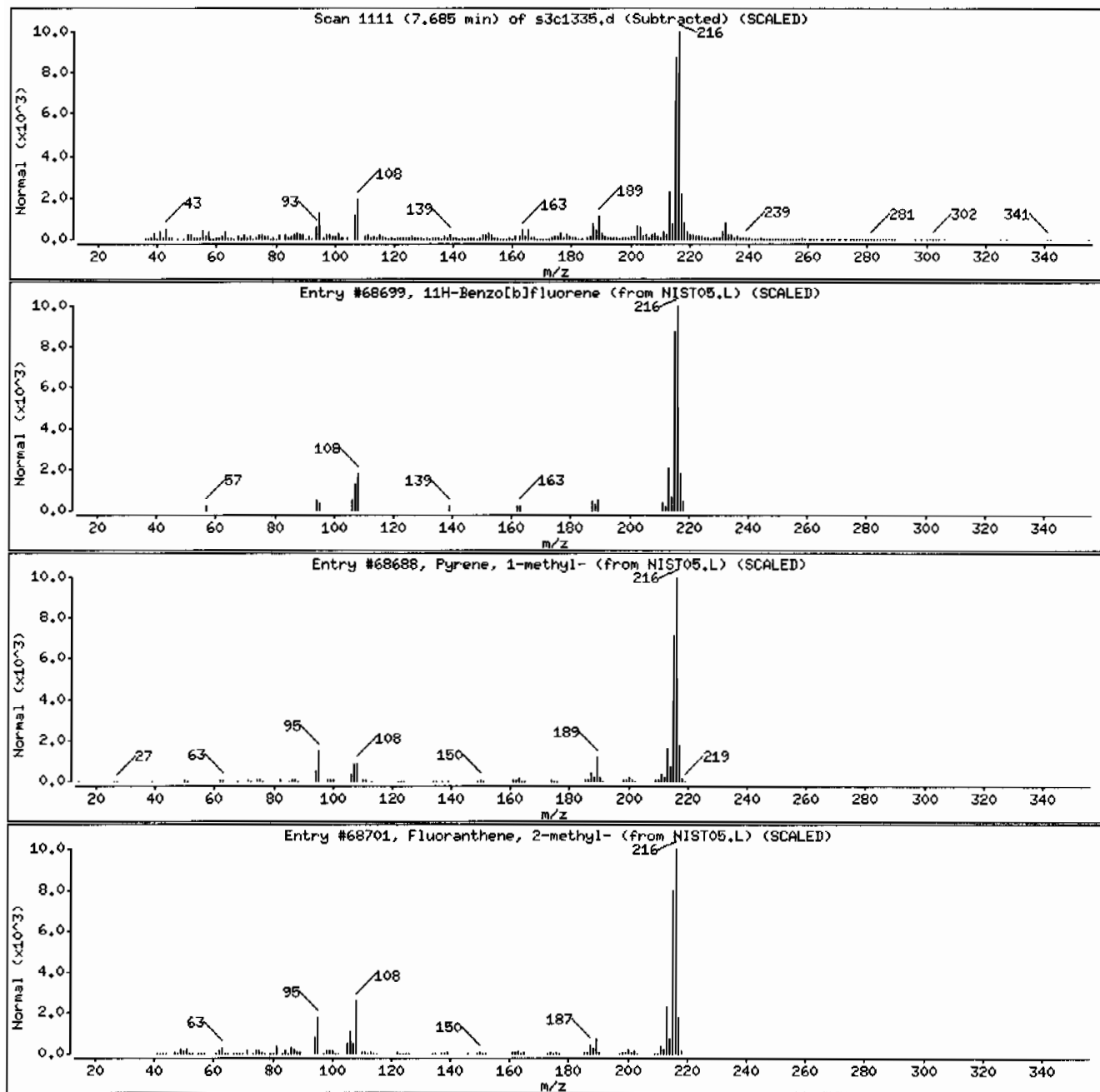
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68699	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	94	C17H12	216
Fluoranthene, 2-methyl-	33543-31-6	NIST05.L	68701	94	C17H12	216



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

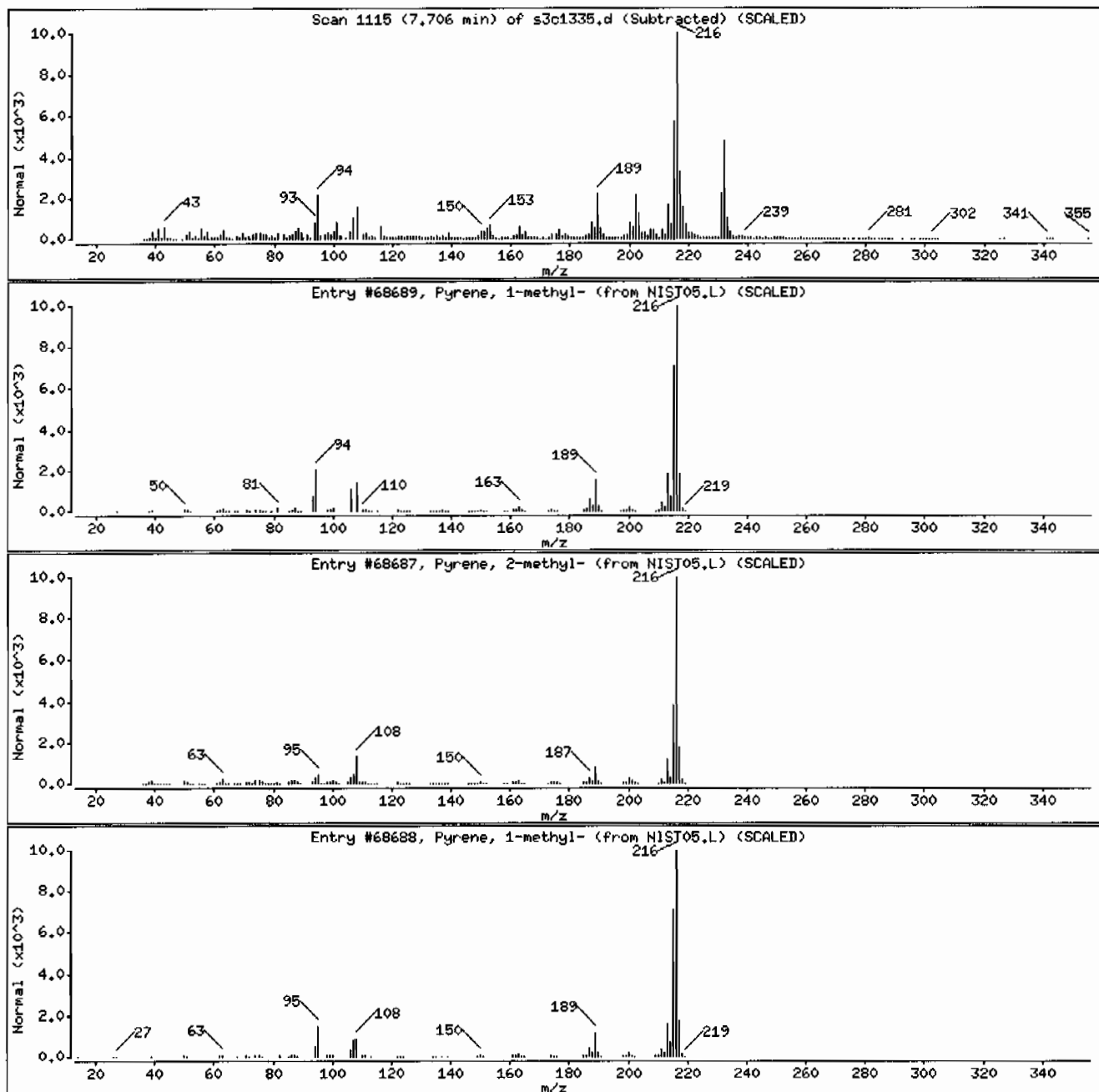
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	91	C17H12	216
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68687	91	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	90	C17H12	216



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

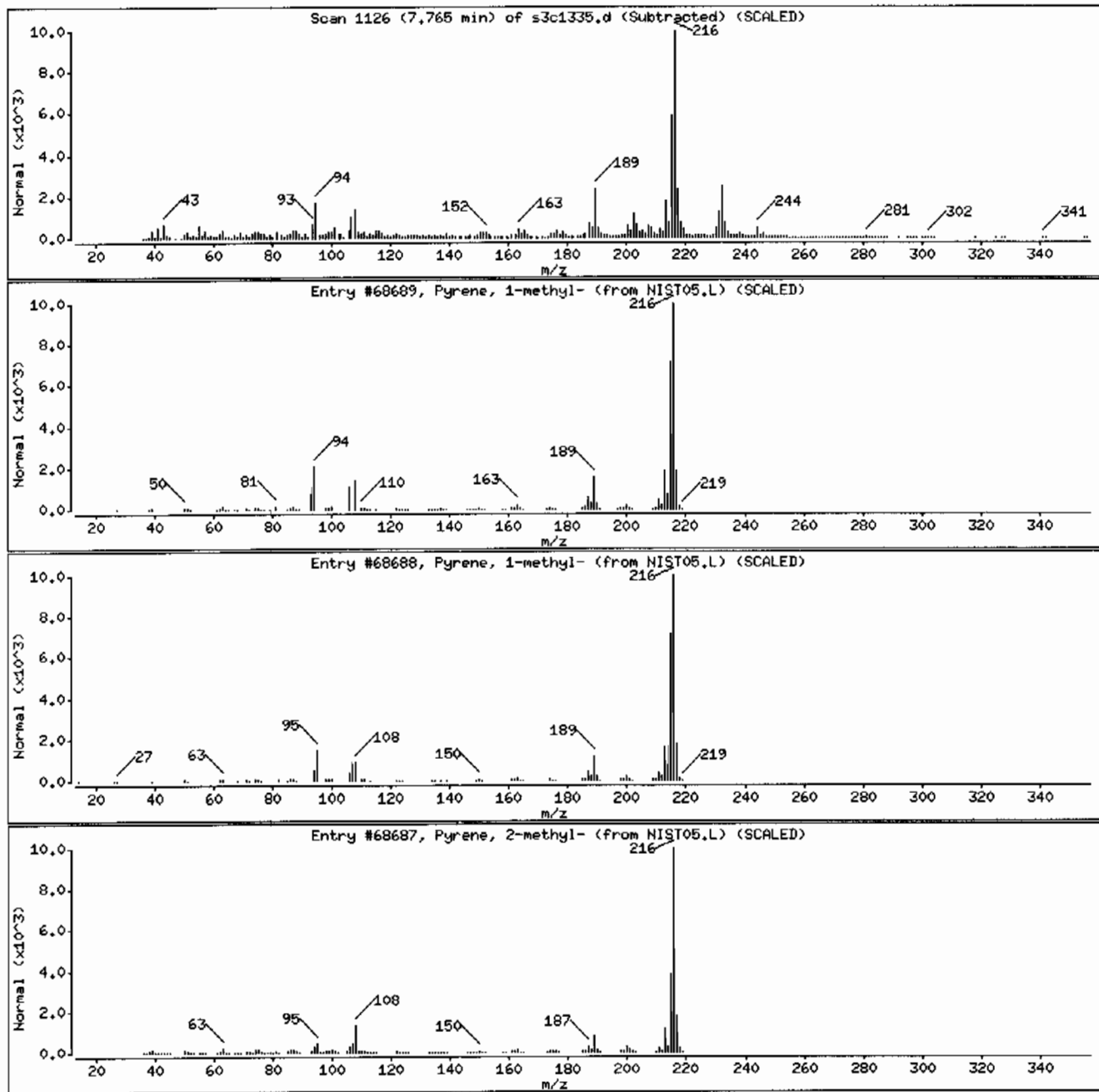
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5HS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	94	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	93	C17H12	216
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68687	93	C17H12	216



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF111LANL

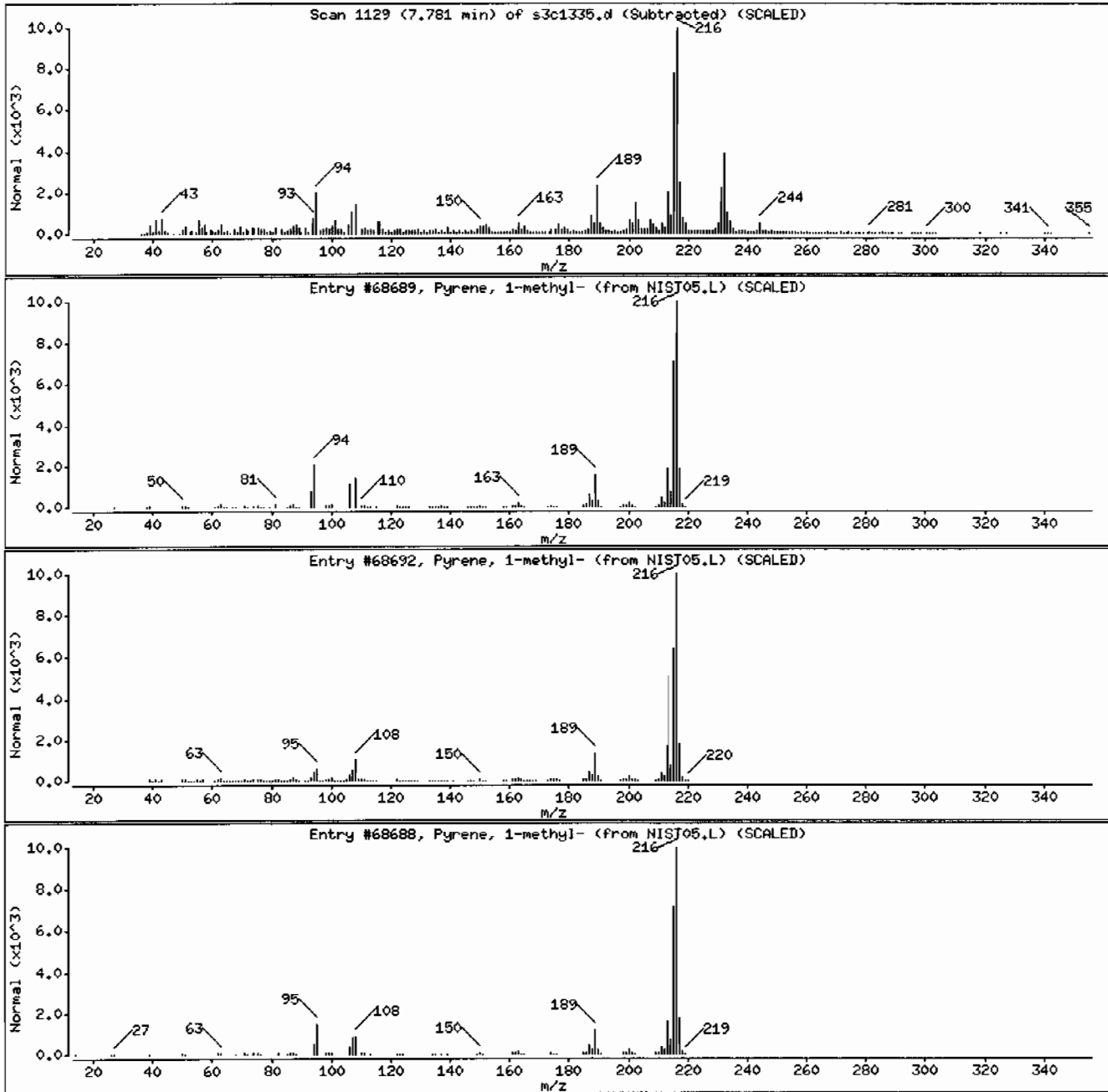
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	96	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68692	93	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	93	C17H12	216



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011|96045912|SVMF11|LANL

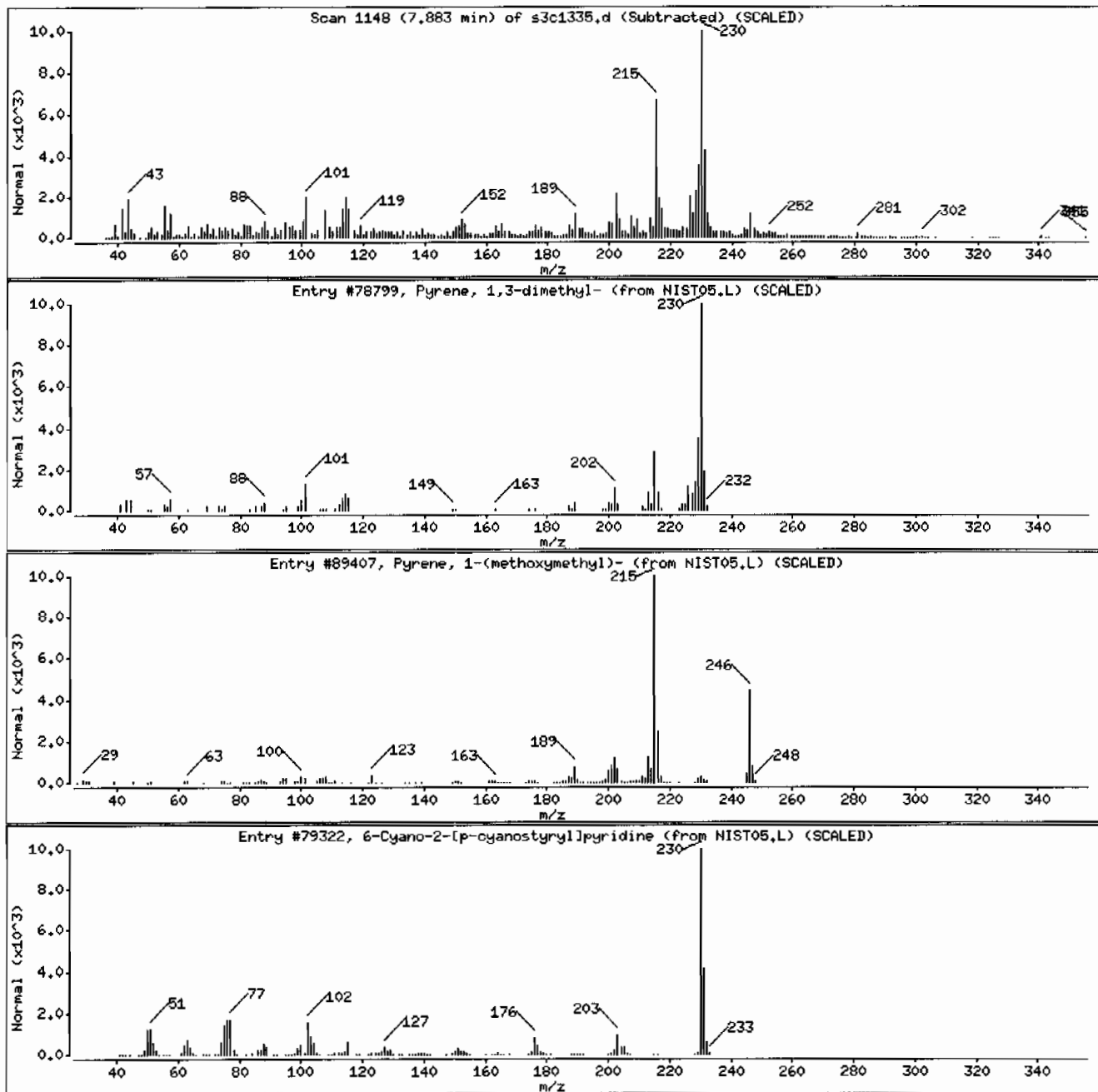
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1,3-dimethyl-	64401-21-4	NIST05.L	78799	83	C18H14	230
Pyrene, 1-(methoxymethyl)-	91385-15-8	NIST05.L	89407	55	C18H14O	246
6-Cyano-2-[p-cyanostyryl]pyridine	1000212-49-1	NIST05.L	79322	46	C15H9N3	231



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: I248197011196045912ISVMF11ILANL

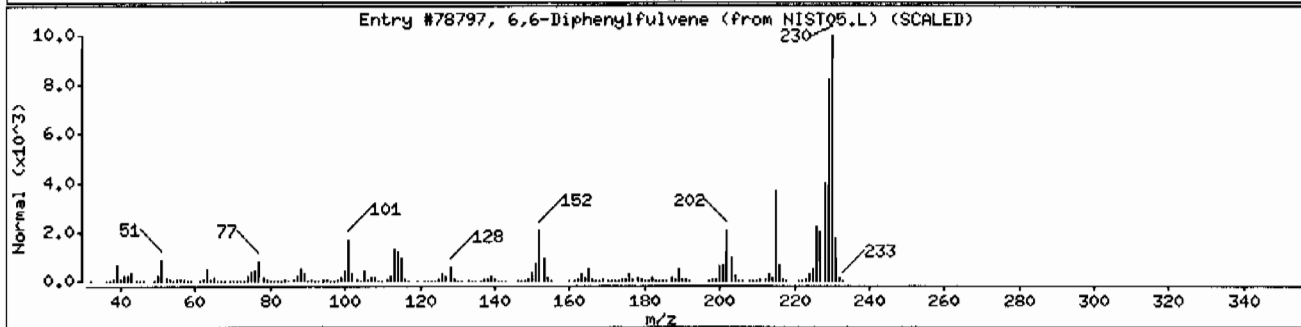
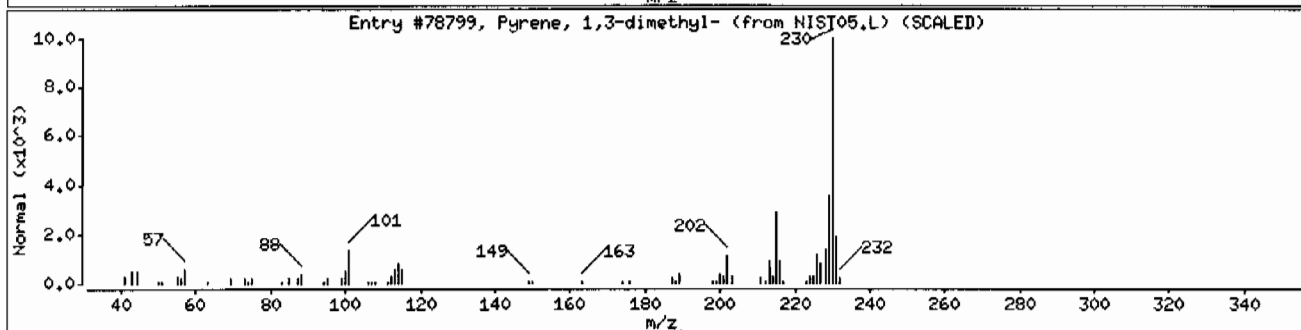
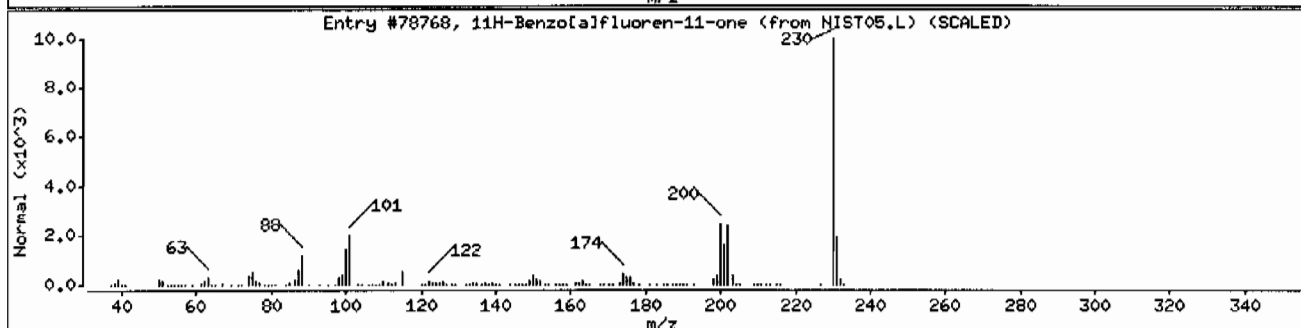
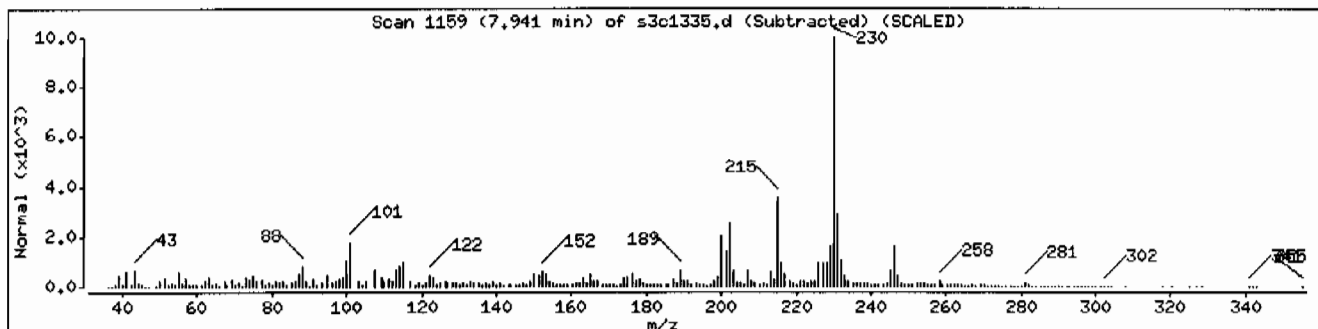
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluoren-11-one	479-79-8	NIST05.L	78768	96	C17H10O	230
Pyrene, 1,3-dimethyl-	64401-21-4	NIST05.L	78799	64	C18H14	230
6,6-Diphenylfulvene	2175-90-8	NIST05.L	78797	62	C18H14	230



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011960459121SVHF111LANL

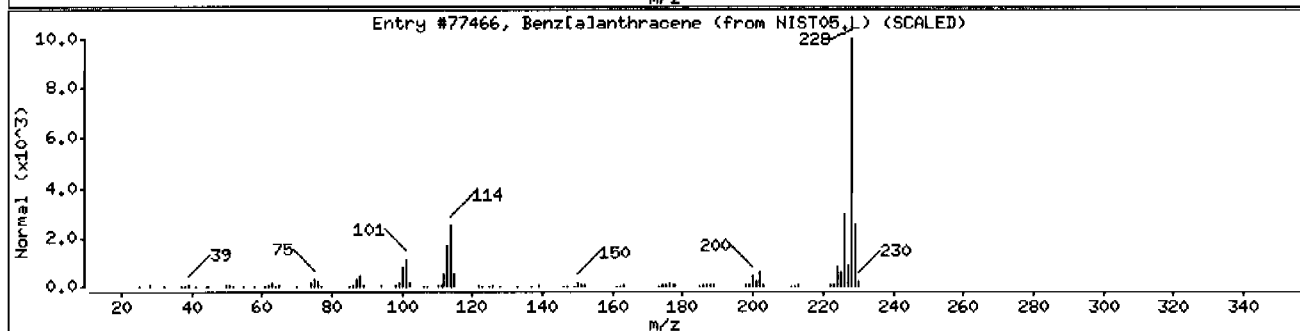
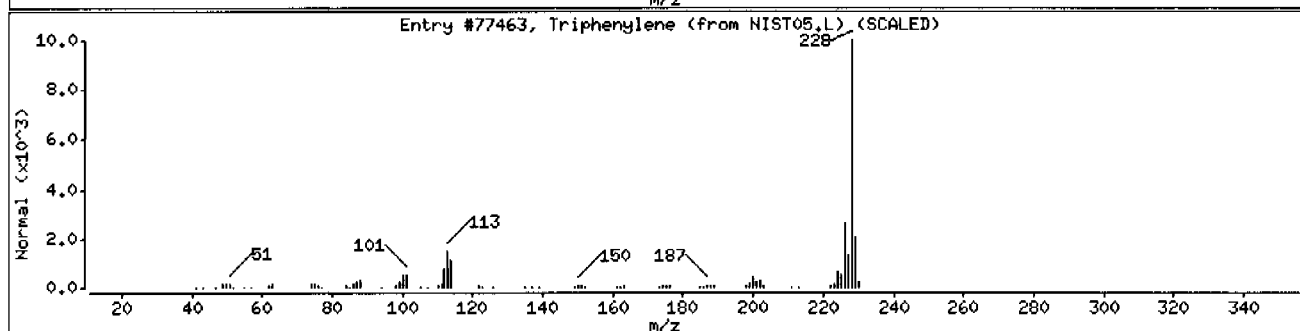
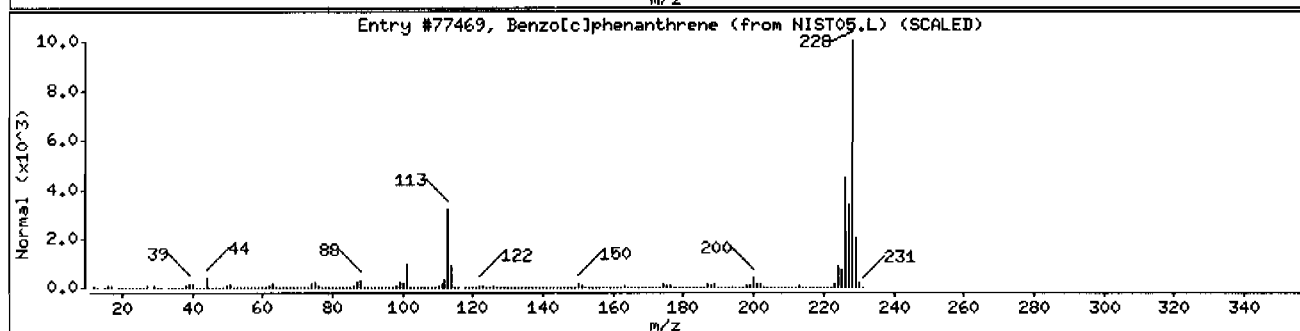
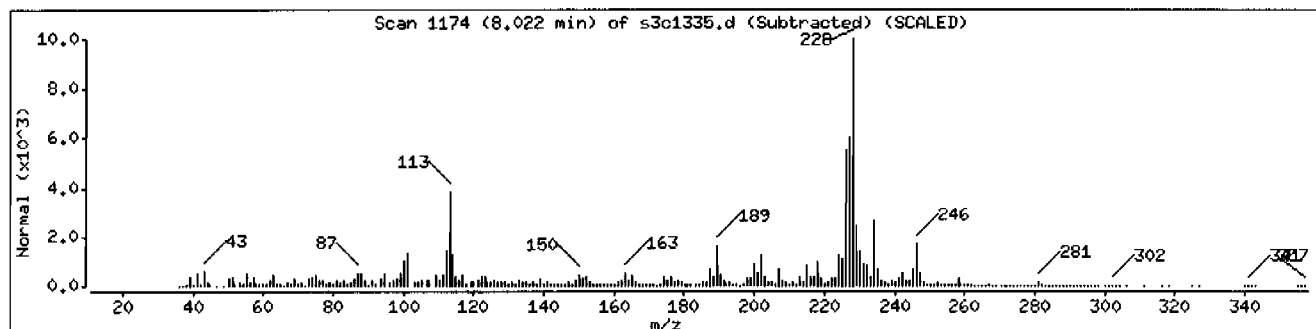
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzo[c]phenanthrene	195-19-7	NIST05.L	77469	90	C18H12	228
Triphenylene	217-59-4	NIST05.L	77463	70	C18H12	228
Benz[a]anthracene	56-55-3	NIST05.L	77466	64	C18H12	228



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

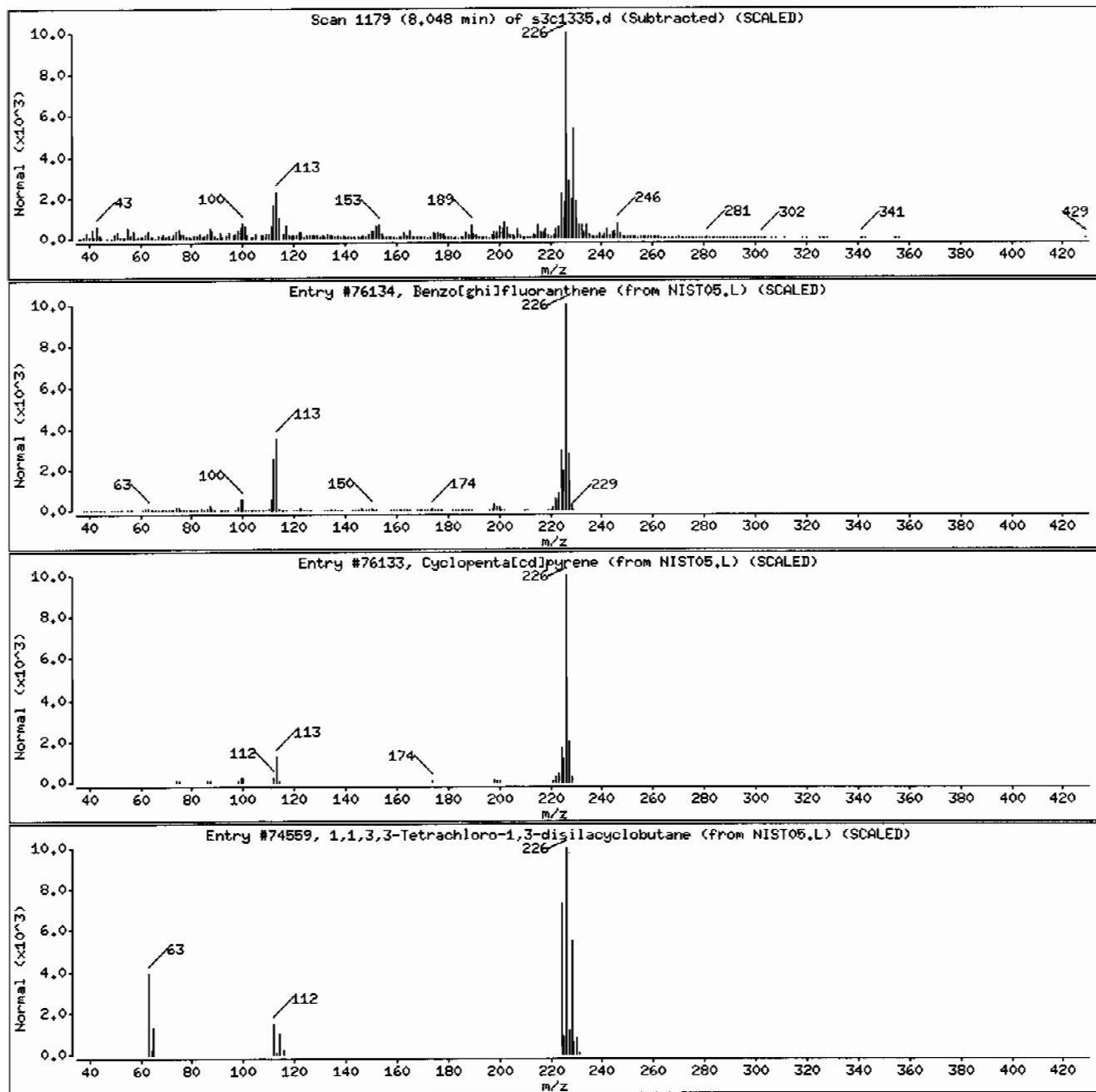
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzo[ghi]fluoranthene	203-12-3	NIST05.L	76134	50	C18H10	226
Cyclopenta[cd]pyrene	27208-37-3	NIST05.L	76133	43	C18H10	226
1,1,3,3-Tetrachloro-1,3-disilacyclobutan	2146-97-6	NIST05.L	74559	35	C2H4Cl4Si2	224



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF11ILANL

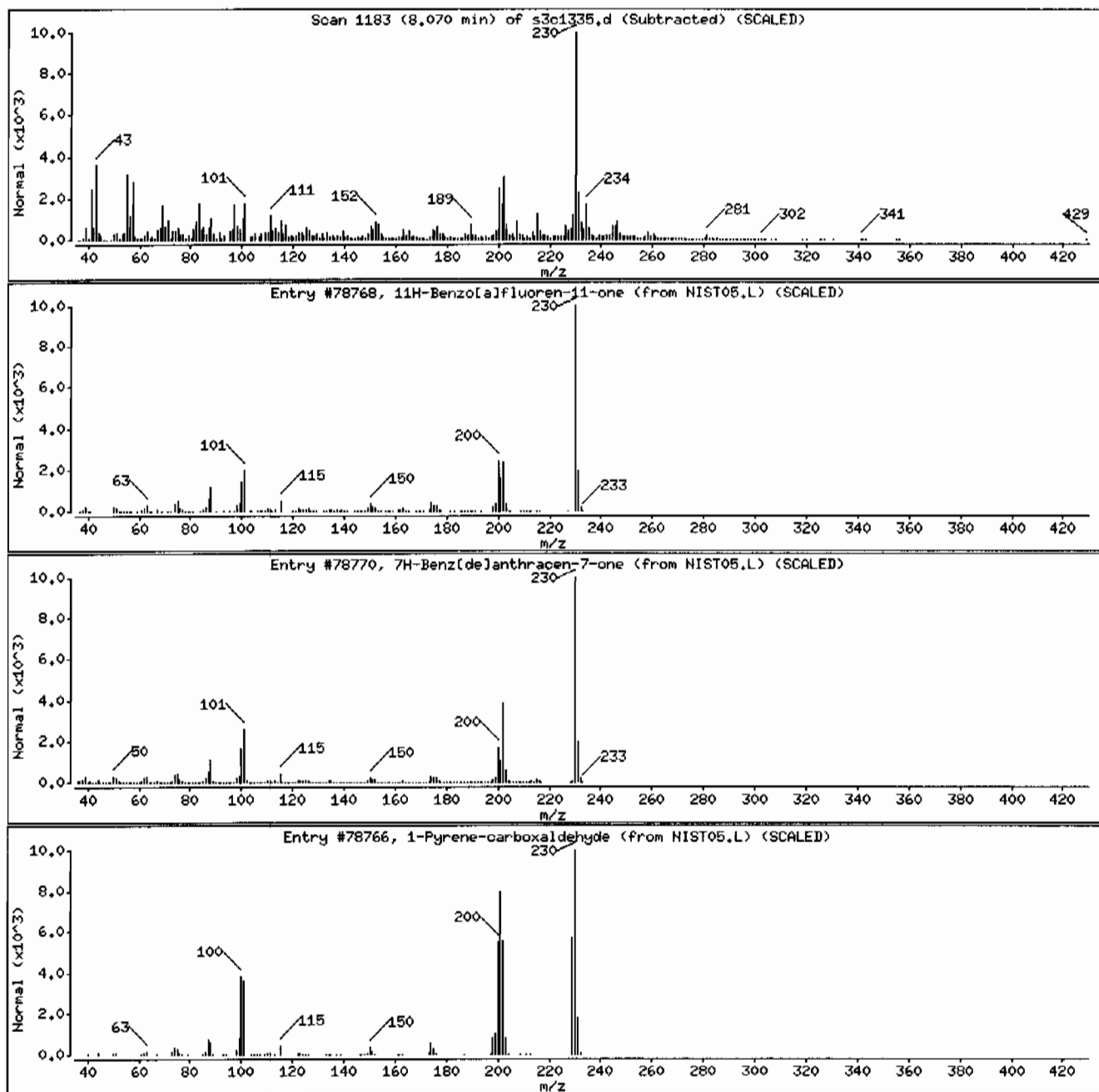
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluoren-11-one	479-79-8	NIST05.L	78768	97	C17H10O	230
7H-Benz[de]anthracen-7-one	82-05-3	NIST05.L	78770	76	C17H10O	230
1-Pyrene-carboxaldehyde	3029-19-4	NIST05.L	78766	74	C17H10O	230



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011196045912ISUMF11ILANL

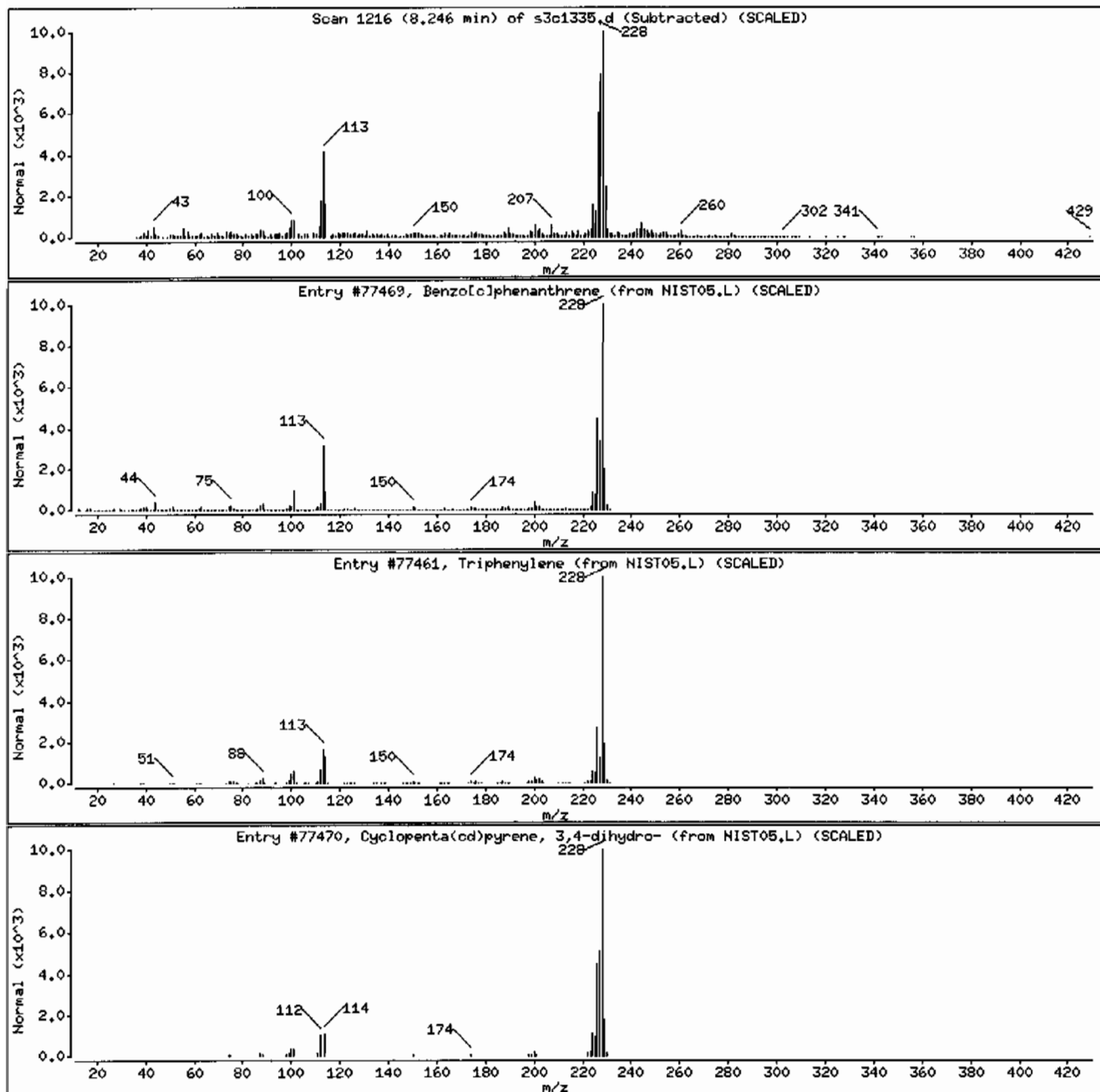
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzo[<i>c</i>]phenanthrene	195-19-7	NIST05.L	77469	60	C ₁₈ H ₁₂	228
Triphenylene	217-59-4	NIST05.L	77461	46	C ₁₈ H ₁₂	228
Cyclopenta[<i>cd</i>]pyrene, 3,4-dihydro-	25732-74-5	NIST05.L	77470	46	C ₁₈ H ₁₂	228



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 1248197011196045912ISVMF111LANL

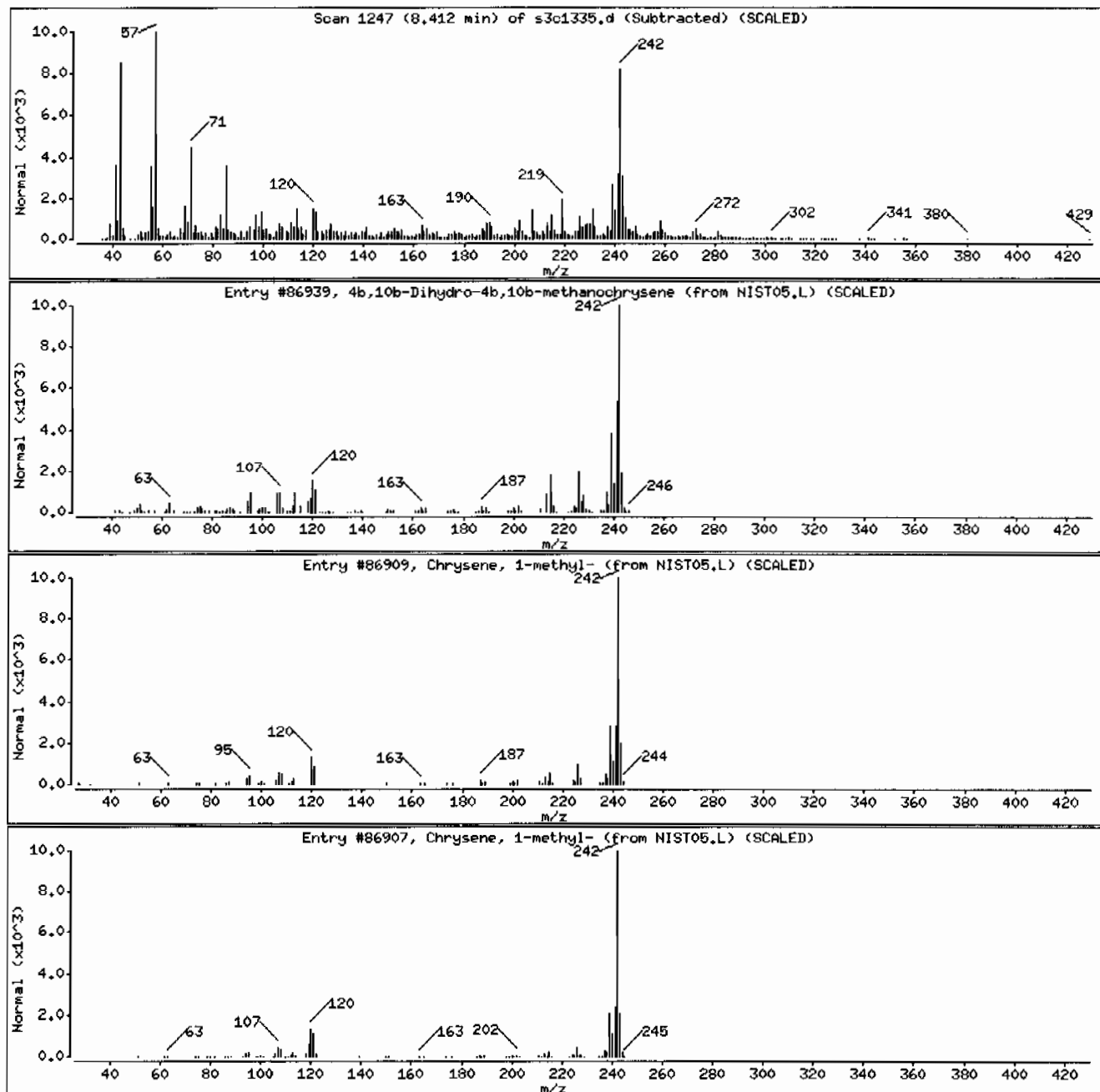
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4b,10b-Dihydro-4b,10b-methanochrysene	71949-03-6	NIST05.L	86939	95	C19H14	242
Chrysene, 1-methyl-	3351-28-8	NIST05.L	86909	87	C19H14	242
Chrysene, 1-methyl-	3351-28-8	NIST05.L	86907	70	C19H14	242



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: I248197011|960459|2|SVMF11|LANL

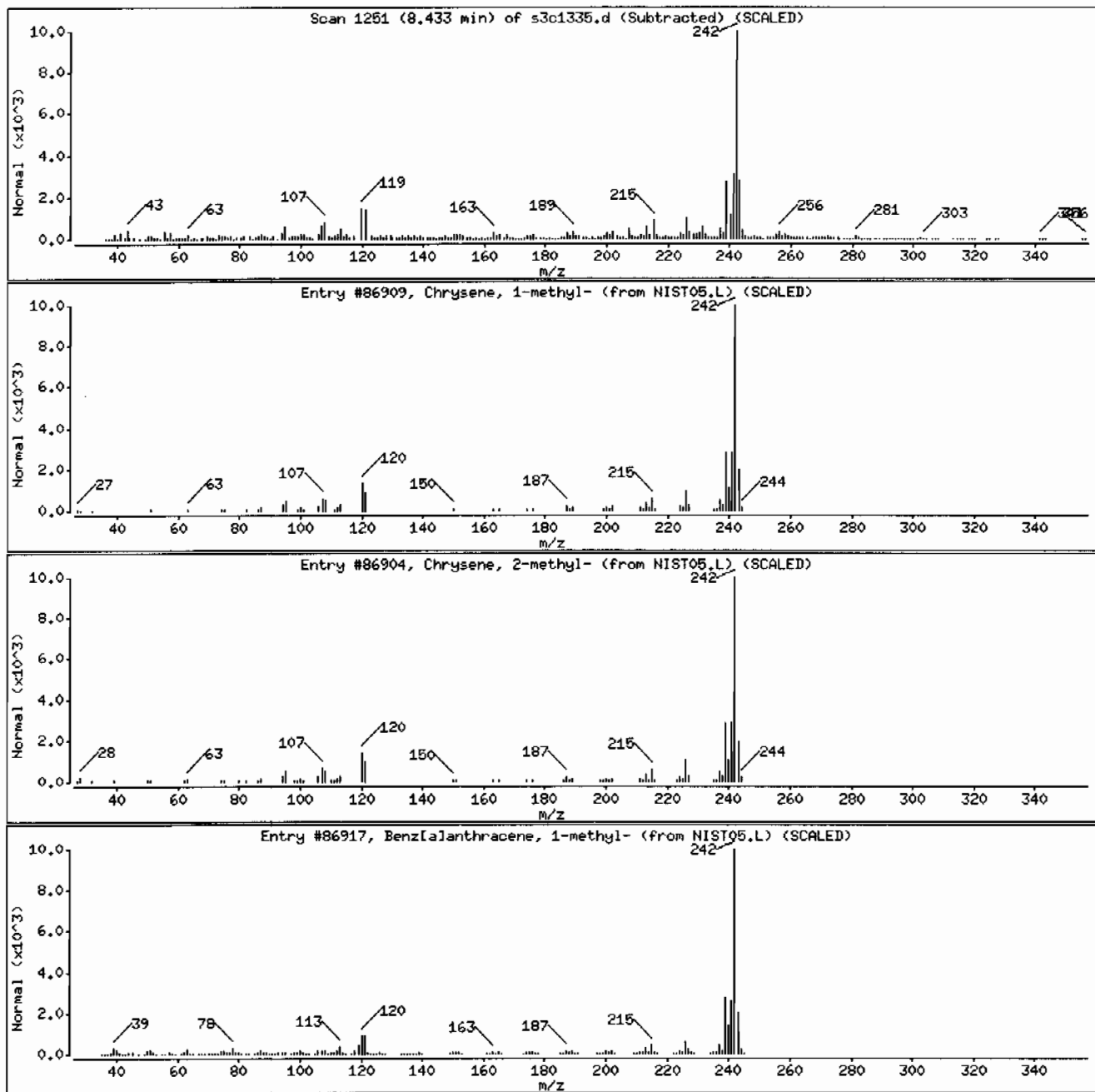
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chrysene, 1-methyl-	3351-28-8	NIST05.L	86909	97	C19H14	242
Chrysene, 2-methyl-	3351-32-4	NIST05.L	86904	97	C19H14	242
Benz[<i>a</i>]anthracene, 1-methyl-	2498-77-3	NIST05.L	86917	94	C19H14	242



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011196045912ISVMF111LANL

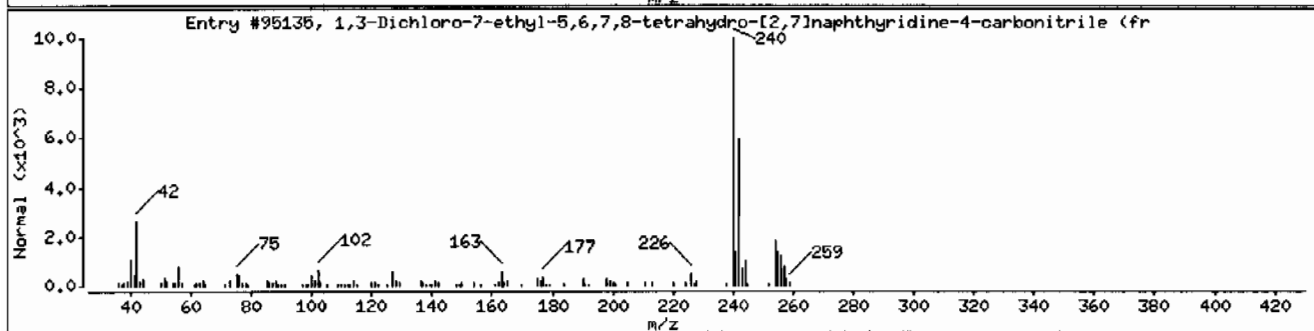
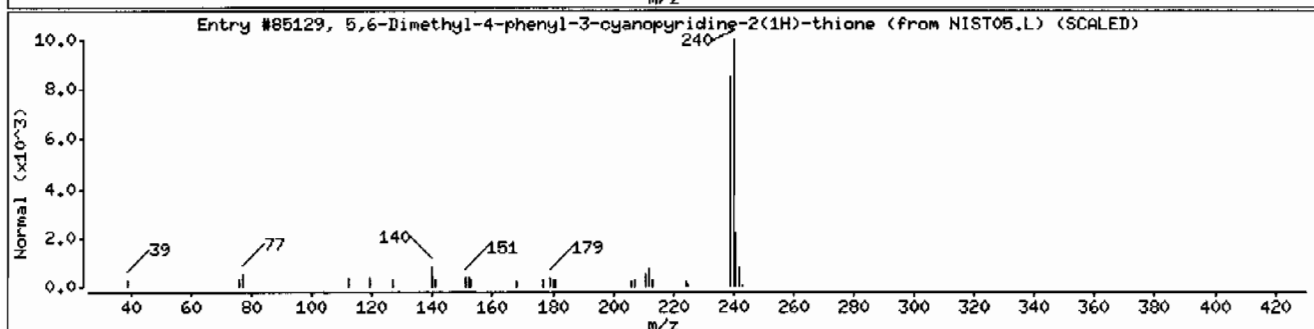
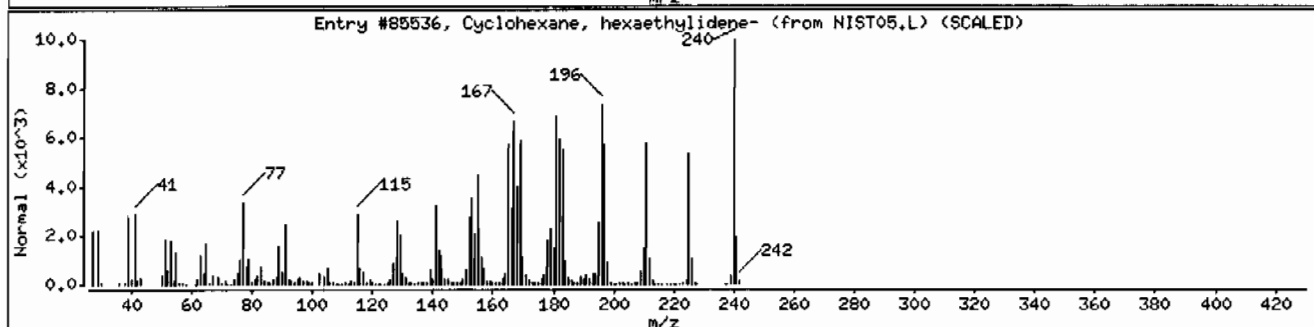
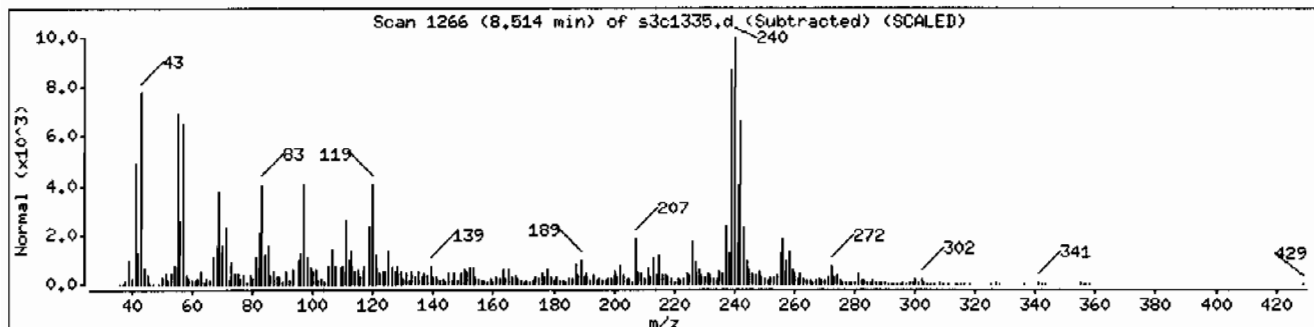
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, hexaethylidene-	1482-93-5	NIST05.L	85536	64	C18H24	240
5,6-Dimethyl-4-phenyl-3-cyanopyridine-2(	94639-18-6	NIST05.L	85129	43	C14H12N2S	240
1,3-Dichloro-7-ethyl-5,6,7,8-tetrahydro-	1000274-36-4	NIST05.L	95135	25	C11H11Cl2N3	255



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVHF111LANL

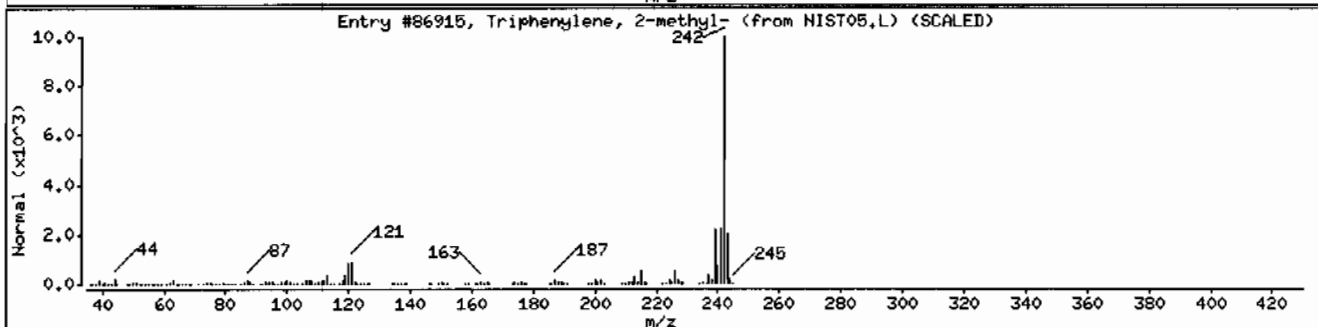
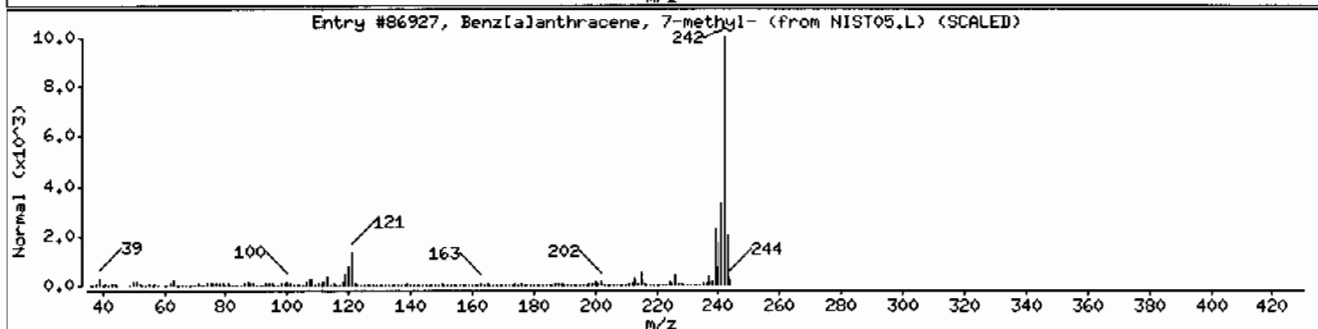
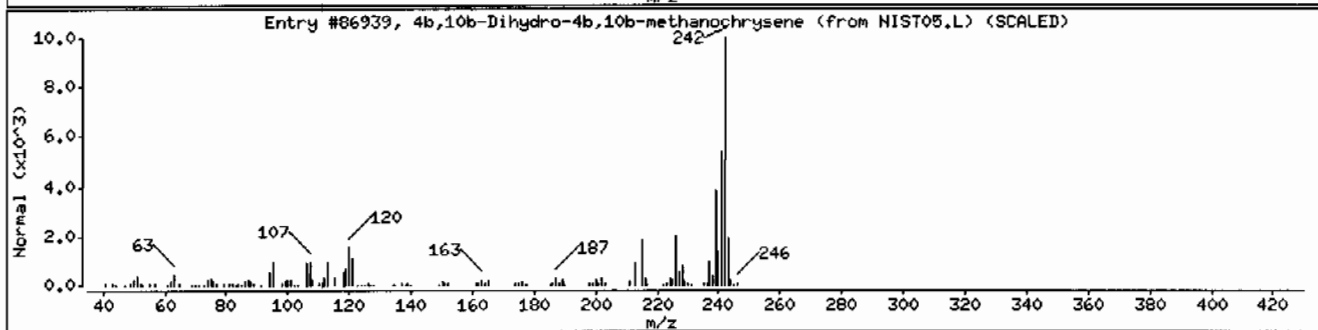
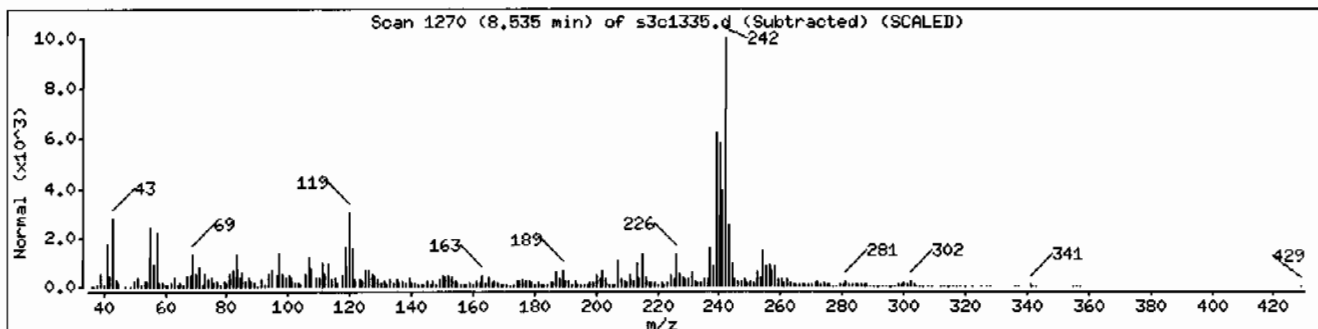
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4b,10b-Dihydro-4b,10b-methanochrysene	71949-03-6	NIST05.L	86939	89	C19H14	242
Benz[a]anthracene, 7-methyl-	2541-69-7	NIST05.L	86927	86	C19H14	242
Triphenylene, 2-methyl-	1705-84-6	NIST05.L	86915	83	C19H14	242



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 12481970111960459121SVMF111LANL

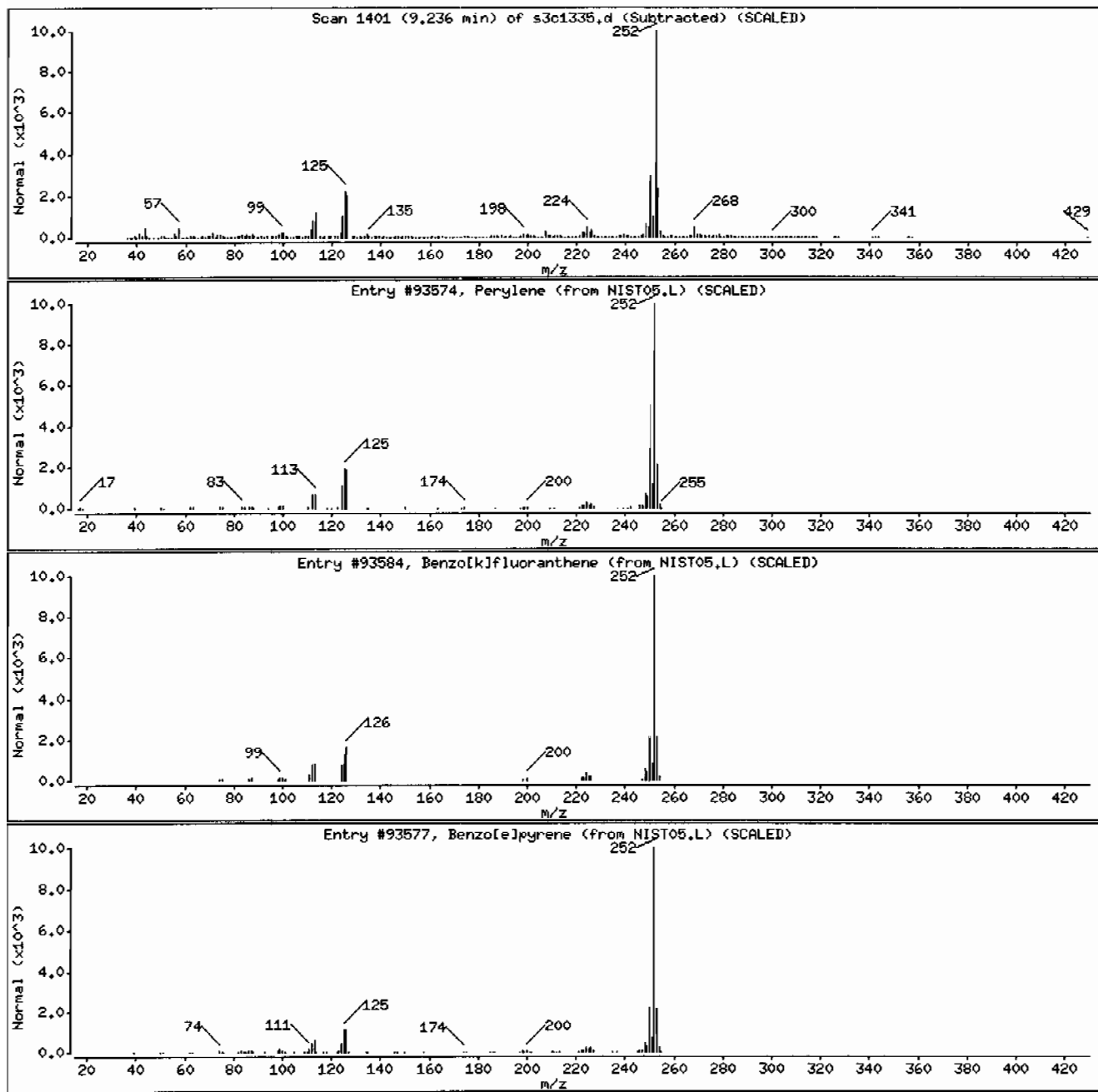
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5HS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NIST05.L	93574	99	C20H12	252
Benzo[k]fluoranthene	207-08-9	NIST05.L	93584	98	C20H12	252
Benzo[e]pyrene	192-97-2	NIST05.L	93577	98	C20H12	252



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 12481970111960459121SVHF111LANL

Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

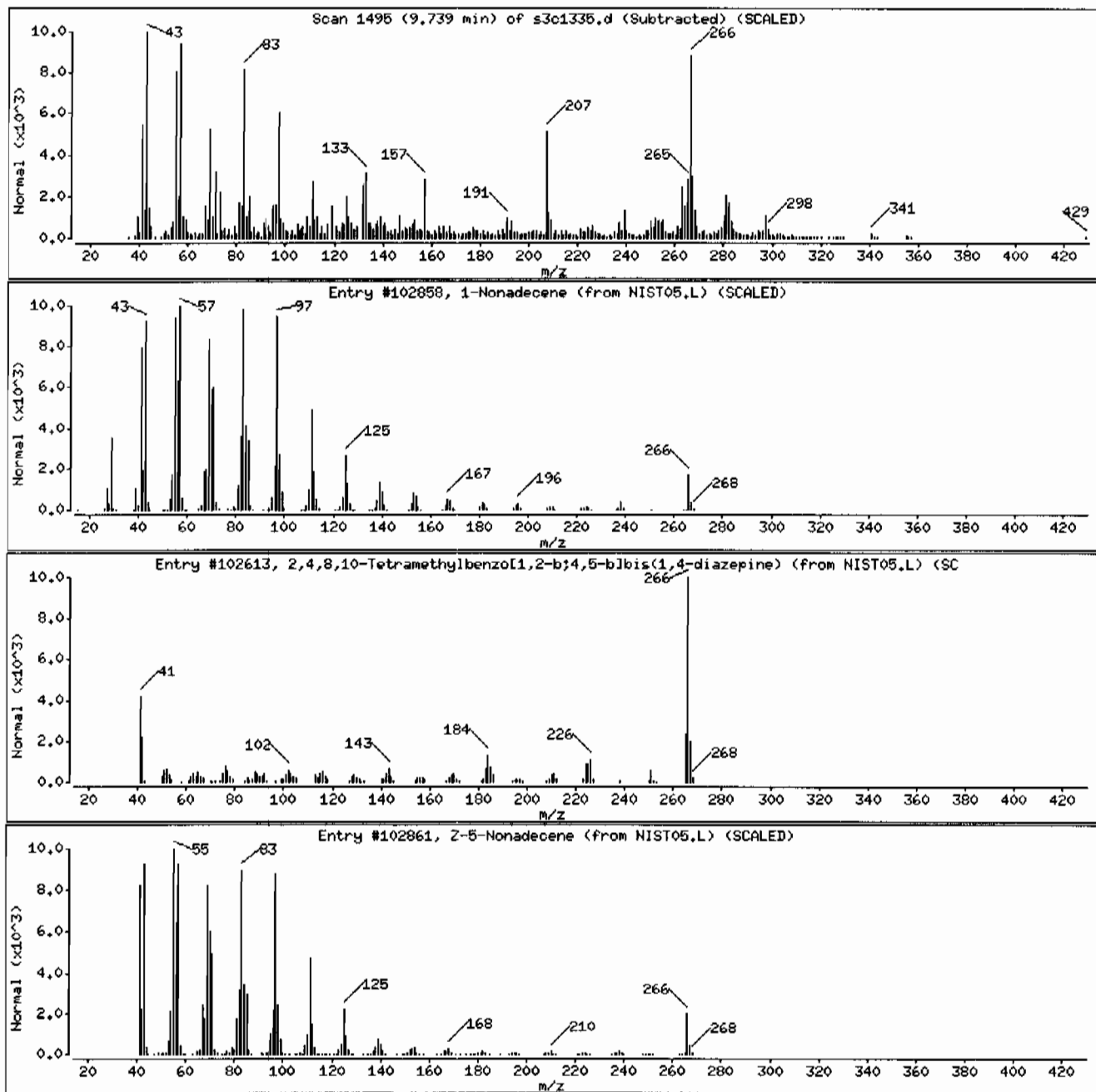
Unknown

1-Nonadecene

CAS Number	Library	Entry	Quality	Formula	Weight
18435-45-5	NIST05.L	102858	46	C19H38	266
17377-04-7	NIST05.L	102613	43	C16H18N4	266
1000131-11-8	NIST05.L	102861	38	C19H38	266

2,4,8,10-Tetramethylbenzo[1,2-b;4,5-b]bi

Z-5-Nonadecene



Date : 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: MSD3.i

Sample Info: 1248197011/960459121SVHF11ILANL

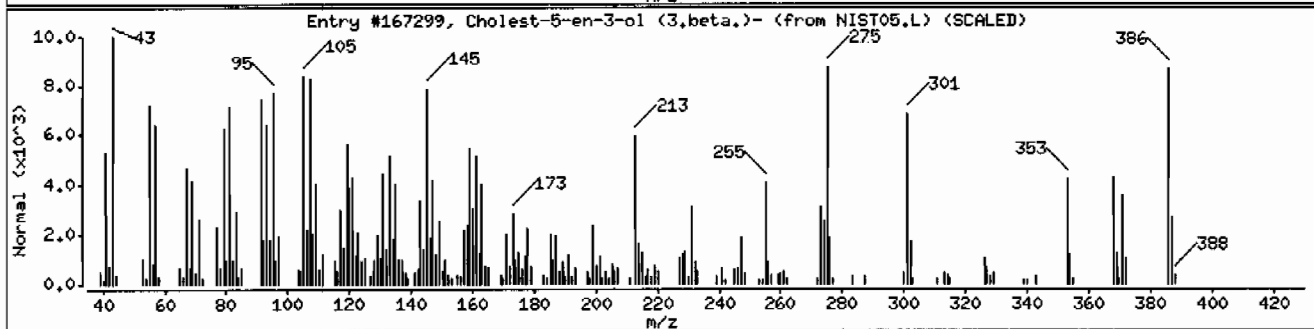
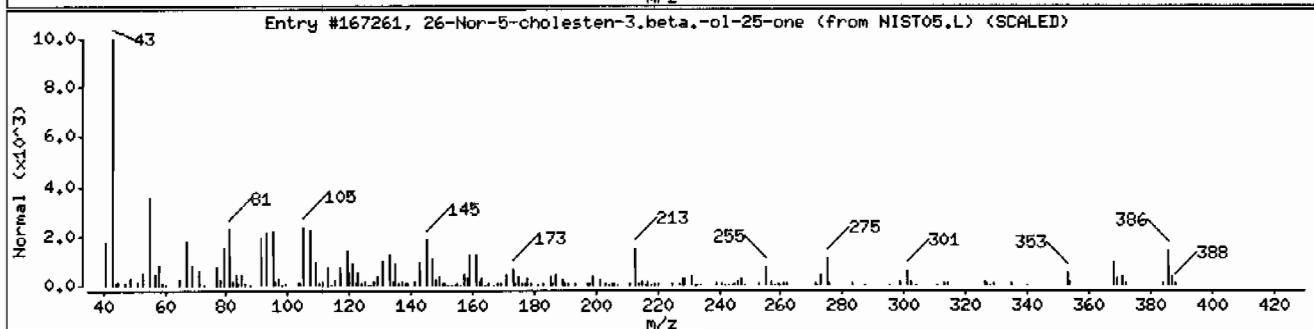
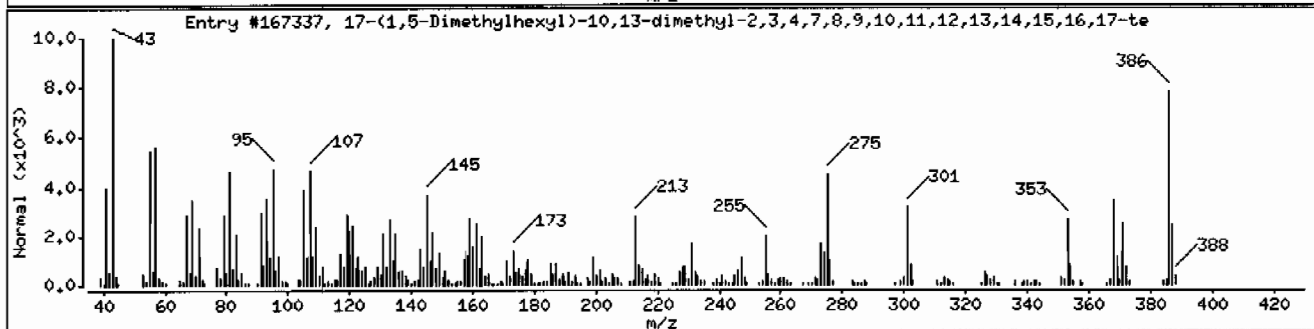
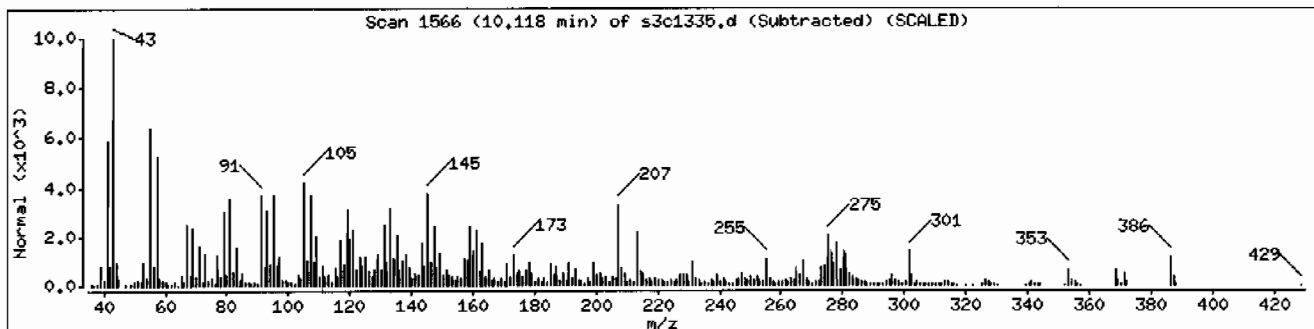
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,	1000210-38-4	NIST05.L	167337	97	C27H46O	386
26-Nor-5-cholesten-3,β-ol-25-one	7494-34-0	NIST05.L	167261	97	C26H42O2	386
Cholest-5-en-3-ol (3,β-)-	57-88-5	NIST05.L	167299	95	C27H46O	386



Date: 13-MAR-2010 22:04

Client ID: RE36-10-7425

Instrument: HSD3.i

Sample Info: 124819701196045912ISVHF11ILANL

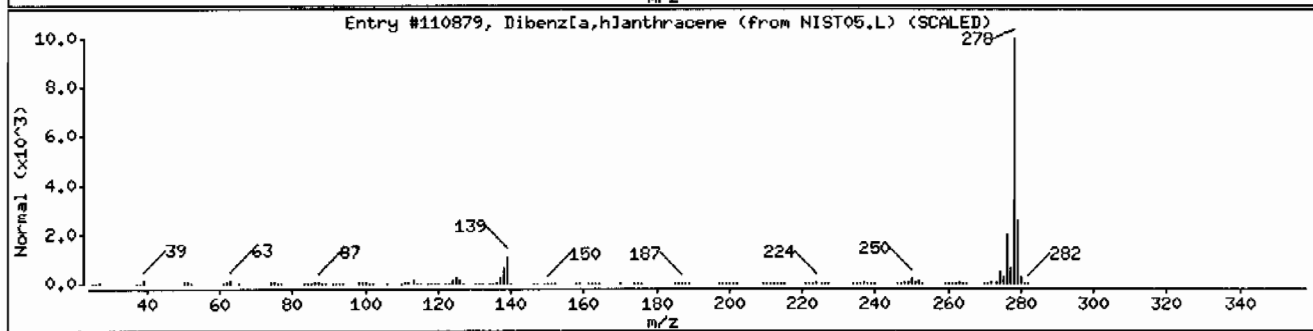
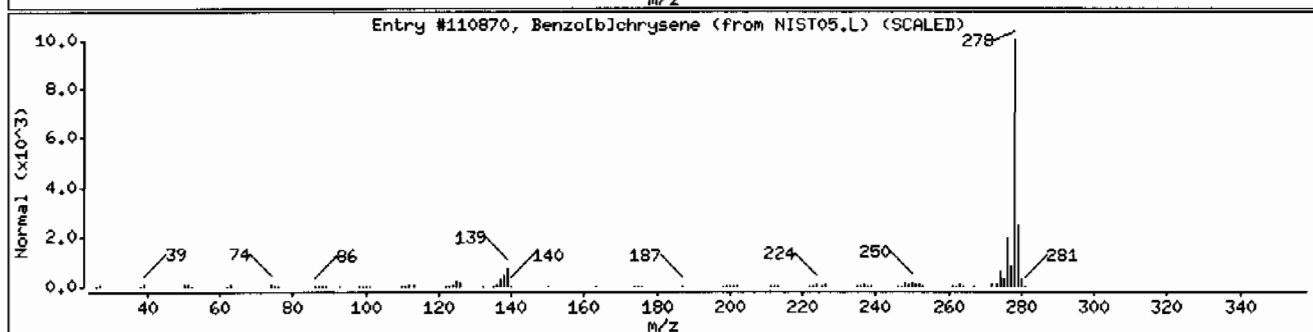
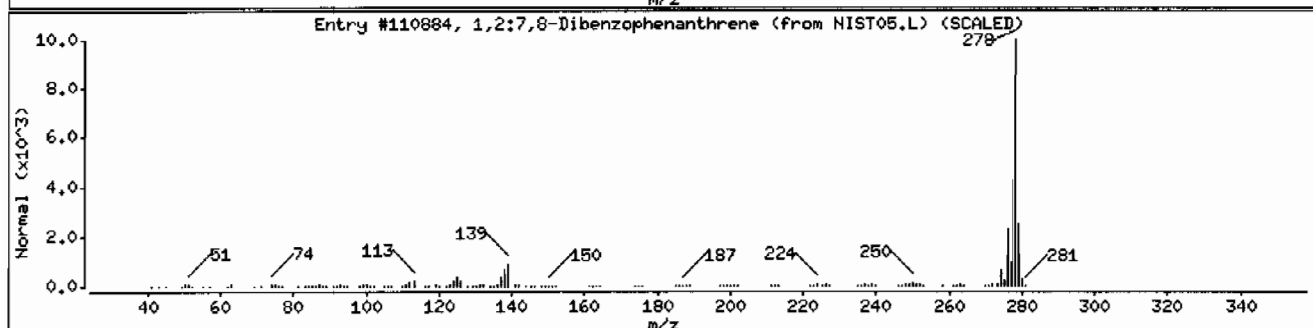
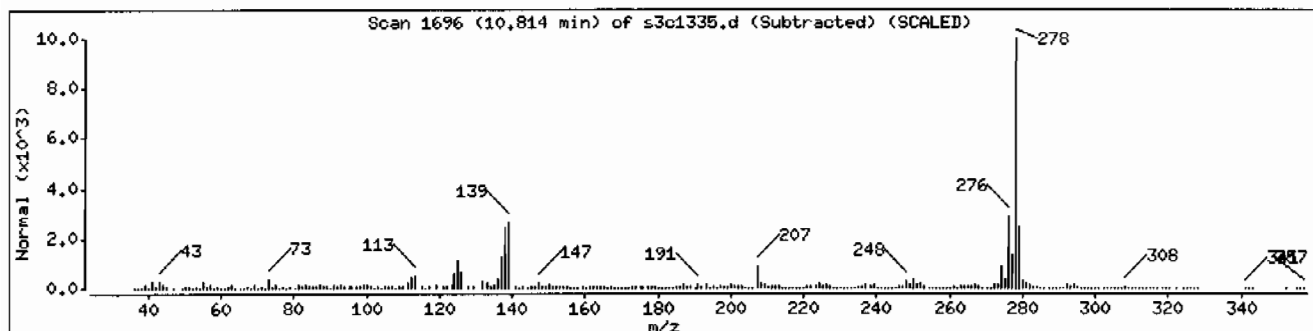
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2:7,8-Dibenzophenanthrene	213-46-7	NIST05.L	110884	99	C22H14	278
Benzo[b]chrysene	214-17-5	NIST05.L	110870	99	C22H14	278
Dibenz[a,h]anthracene	53-70-3	NIST05.L	110879	98	C22H14	278



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197011	Date Received: 02/26/2010 08:45	%Moisture: 22.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7425DL	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 20
Run Date: 03/13/2010 21:45	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.12 g	Final Volume: 1 mL
Data File: s3c1334.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
129-00-0	Pyrene		19100	ug/kg	256	853
205-99-2	Benzo(b)fluoranthene		17800	ug/kg	256	853

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
2381-21-7	Pyrene, 1-methyl-	7.64	4500	ug/kg	97	NJ
3442-78-2	Pyrene, 2-methyl-	7.71	3700	ug/kg	97	NJ
	Unknown	7.78	3540	ug/kg		J
195-19-7	Benzo[c]phenanthrene	8.02	4090	ug/kg	86	NJ
	Unknown	8.04	3680	ug/kg		J
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.53	4300	ug/kg	89	NJ
198-55-0	Perylene	9.22	8020	ug/kg	99	NJ
	Unknown	10.18	7560	ug/kg		J

Data File: /chem/MSD3.i/s031310.b/s3c1334.d
Report Date: 16-Mar-2010 14:50

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1334.d
Lab Smp Id: 248197011 Client Smp ID: RE36-10-7425DL
Inj Date : 13-MAR-2010 21:45
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197011|960459|20|SVMF|2|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 33
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	20.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.13550	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473 (1.000)	626241	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329 (1.000)	2396948	40.0000	
* 46 Acenaphthene-d10	164	5.566	5.570 (1.000)	1283519	40.0000	
* 67 Phenanthrene-d10	188	6.593	6.592 (1.000)	2040493	40.0000	
* 91 Chrysene-d12	240	8.166	8.169 (1.000)	1090122	40.0000	
* 98 Perylene-d12	264	9.332	9.330 (1.000)	553844	40.0000	
\$ 3 2-Fluorophenol	112	2.684	2.682 (0.772)	88705	6.30296	5380 (R)
\$ 5 Phenol-d5	99	3.213	3.206 (0.925)	93565	5.65890	4820 (R)
\$ 20 Nitrobenzene-d5	82	3.834	3.837 (0.886)	48282	3.53834	3020 (R)
\$ 39 2-Fluorobiphenyl	172	5.069	5.073 (0.911)	107704	3.29819	2810 (R)
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126 (1.101)	14232	4.83601	4120
\$ 81 p-Terphenyl-d14	244	7.524	7.522 (0.921)	74991	4.43803	3780 (R)

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	----	----	=====	=====	=====	=====	=====
79 Pyrene	202	7.465	7.463	(0.914)	706233	22.3736	19100
68 Phenanthrene	178	6.604	6.608	(1.002)	102217	2.21144	1880
69 Anthracene	178	6.636	6.640	(1.006)	65497	1.44728	1230
76 Fluoranthene	202	7.326	7.324	(1.111)	669596	15.9933	13600
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	315917	12.4787	10600
92 Chrysene	228	8.182	8.185	(1.002)	333006	12.8645	11000
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	294055	20.9174	17800
97 Benzo(a)pyrene	252	9.278	9.277	(0.994)	152457	12.6242	10800
99 Indeno(1,2,3-cd)pyrene	276	10.594	10.603	(1.135)	56795	5.45426	4650
101 Benzo(ghi)perylene	276	10.990	10.993	(1.178)	46568	5.44379	4640

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ION RATIO REPORT

SV REPORT

Data file: s3c1334.d

Report Date: 03/14/2010 14:37

Lab. ID: 248197011

SampleType: SAMPLE

Injection Date: 13-MAR-2010 21:45

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197011|960459|20|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 20.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
27 Benzoic acid			CAS#: 65-85-0			
105	2669	4.33	4.12	80-120	100	(T)
122	673	4.33	4.12	55-115	25	(QT)
77	7522	4.33	4.12	29- 89	282	(QT)

43 Dimethylphthalate			CAS#: 131-11-3			
163	232007	5.57	5.35	80-120	100	(T)
164	1288666	5.57	5.35	0- 40	555	(QT)

44 2,6-Dinitrotoluene			CAS#: 606-20-2			
165	167843	5.57	5.40	80-120	100	(T)
63	2233	5.57	5.40	49-109	1	(QT)

50 2,4-Dinitrotoluene			CAS#: 121-14-2			
165	167843	5.57	5.69	80-120	100	(T)
89	2175	5.57	5.69	48-108	1	(QT)
63	2233	5.57	5.69	21- 81	1	(QT)

52 4-Nitrophenol			CAS#: 100-02-7			
139	842	5.72	5.63	80-120	100	(T)
109	2536	5.57	5.63	39- 99	301	(QT)
65	103	5.79	5.63	60-120	12	(QT)

55 2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1			
198	386	6.19	5.98	80-120	100	(T)
105	144	6.22	5.98	14- 74	37	(T)
51	152	6.20	5.98	40-100	40	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
68 Phenanthrene			CAS#: 85-01-8			
178	102217	6.60	6.61	80-120	100	()
179	17457	6.60	6.61	0- 46	17	()
176	19760	6.60	6.61	0- 49	19	()

69 Anthracene			CAS#: 120-12-7			
178	65497	6.64	6.64	80-120	100	()
179	12958	6.64	6.64	0- 46	20	()
176	11089	6.64	6.64	0- 49	17	()

76 Fluoranthene			CAS#: 206-44-0			
202	669596	7.33	7.32	80-120	100	()
203	117368	7.33	7.32	0- 47	18	()
101	87528	7.33	7.32	0- 43	13	()

79 Pyrene			CAS#: 129-00-0			
202	706233	7.47	7.46	80-120	100	()
200	149460	7.47	7.46	0- 51	21	()
101	117243	7.47	7.46	0- 46	17	()

89 Benzo(a)anthracene			CAS#: 56-55-3			
228	315917	8.16	8.16	80-120	100	()
226	86559	8.16	8.16	0- 57	27	()
229	88755	8.16	8.16	0- 50	28	()

92 Chrysene			CAS#: 218-01-9			
228	333006	8.18	8.19	80-120	100	()
229	80629	8.18	8.19	0- 50	24	()
226	99637	8.18	8.19	0- 59	30	()

95 Benzo(b)fluoranthene			CAS#: 205-99-2			
252	294055	8.97	8.97	80-120	100	()
253	66115	8.97	8.97	0- 52	22	()
125	50168	8.97	8.96	0- 44	17	()

96 Benzo(k)fluoranthene			CAS#: 207-08-9			
252	295034	8.97	8.99	80-120	100	()
253	67666	8.97	8.99	0- 52	23	()
125	50174	8.97	8.99	0- 48	17	()

97 Benzo(a)pyrene			CAS#: 50-32-8			
252	152457	9.28	9.28	80-120	100	()
253	36775	9.28	9.28	0- 52	24	()
125	26196	9.28	9.28	0- 48	17	()

99 Indeno(1,2,3-cd)pyrene			CAS#: 193-39-5			
276	56795	10.59	10.60	80-120	100	()
138	20908	10.59	10.60	14- 74	37	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
100	Dibenzo(a,h)anthracene			CAS#: 53-70-3		
278	16734	10.60	10.61	80-120	100	()
139	2811	10.60	10.60	0- 60	17	()

101	Benzo(ghi)perylene			CAS#: 191-24-2		
276	46568	10.99	10.99	80-120	100	()
138	17913	10.99	10.99	9- 69	38	()

Q qualifier indicates ion failed ratio requirement						

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1334.d
Lab Smp Id: 248197011 Client Smp ID: RE36-10-7425DL
Inj Date : 13-MAR-2010 21:45
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197011|960459|20|SVMF|2|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 33
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	20.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.12000	weight of sample
M	22.13550	% moisture

Cpnd Variable Local Compound Variable

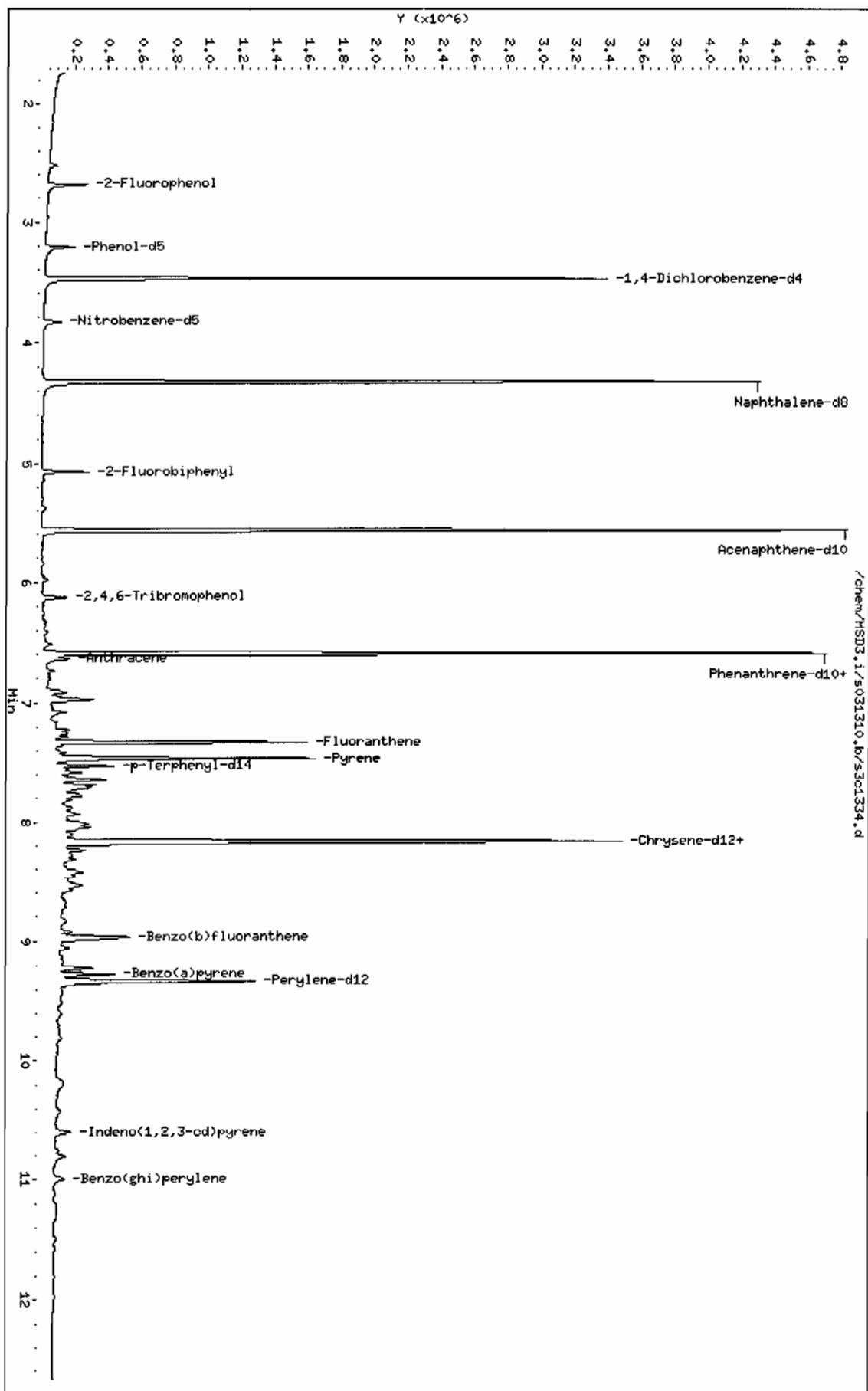
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.166	5577076	40.000
* 98 Perylene-d12	9.332	2108263	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	L1B ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Pyrene, 1-methyl-							
7.642	735508	5.27522466	4500	97	CAS #: 2381-21-7 NIST05.L	68688	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Pyrene, 2-methyl-					CAS #: 3442-78-2		
7.706	604550	4.33596255	3700	97	NIST05.L	68687	91
Unknown					CAS #:		
7.775	578405	4.14844888	3540	0		0	91
Benzo[c]phenanthrene					CAS #: 195-19-7		
8.021	668487	4.79453712	4090	86	NIST05.L	77469	91
Unknown					CAS #:		
8.043	600996	4.31047657	3680	0		0	91
4b,10b-Dihydro-4b,10b-methanochrysene					CAS #: 71949-03-6		
8.535	703784	5.04769125	4300	89	NIST05.L	86939	91
Perylene					CAS #: 198-55-0		
9.225	495707	9.40503445	8020	99	NIST05.L	93574	98
Unknown					CAS #:		
10.182	467185	8.86389009	7560	0		0	98

Data File: /chem/MSD3.1/s031310.b/s301334.d
 Date: 13-MAR-2010 21:45
 Client ID: RE36-10-7425DL
 Sample Info: 12481970119604691201SVHF121LNL
 Volume Injected (uL): 0.5
 Column phase: 3M DB-SHS

Instrument: MSD3.1
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 1248197011/9604591201SVHF12ILANL

Volume Injected (uL): 0.5

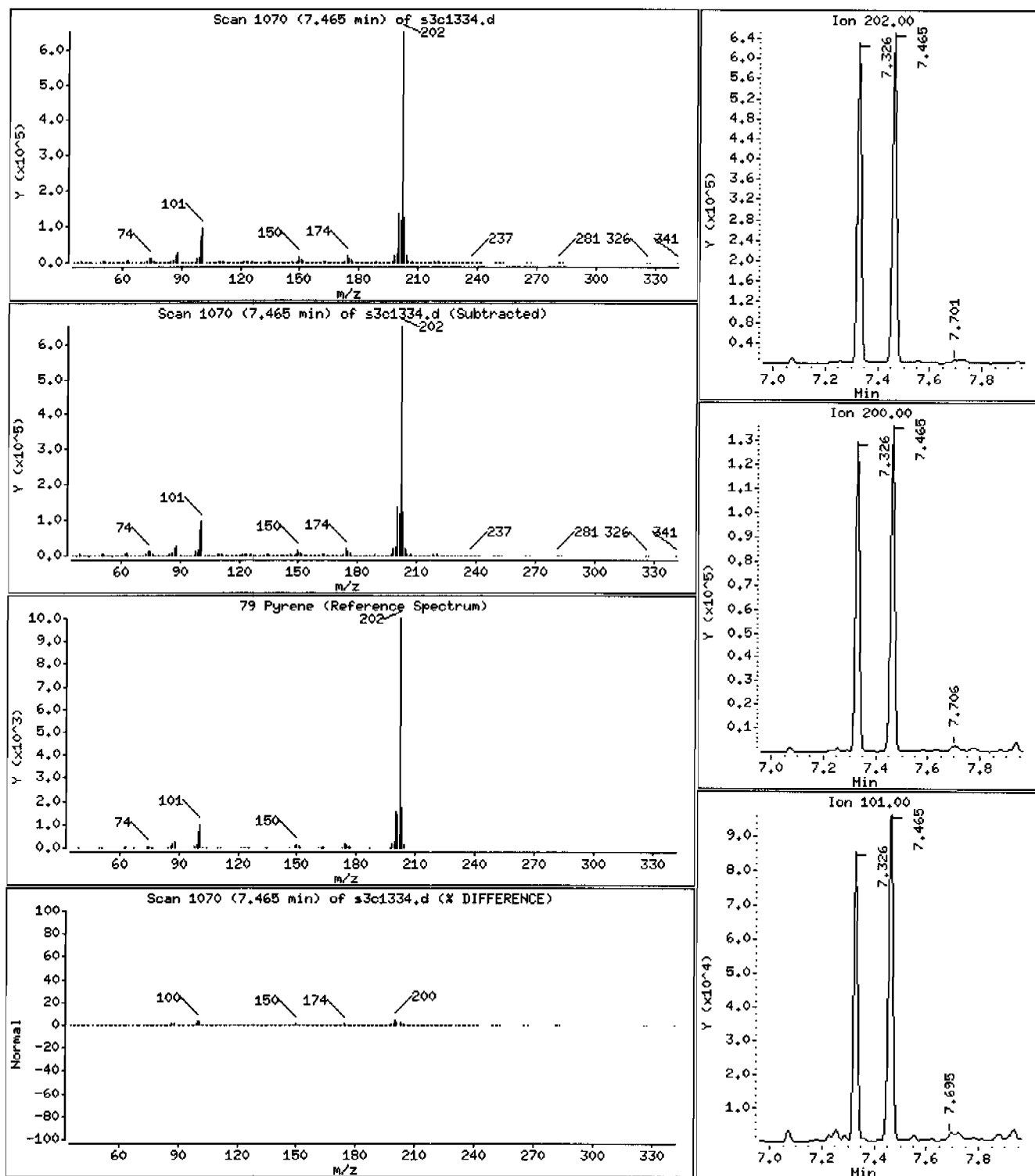
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 19100 ug/Kg



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 12481970119604591201SVHF12ILANL

Volume Injected (uL): 0.5

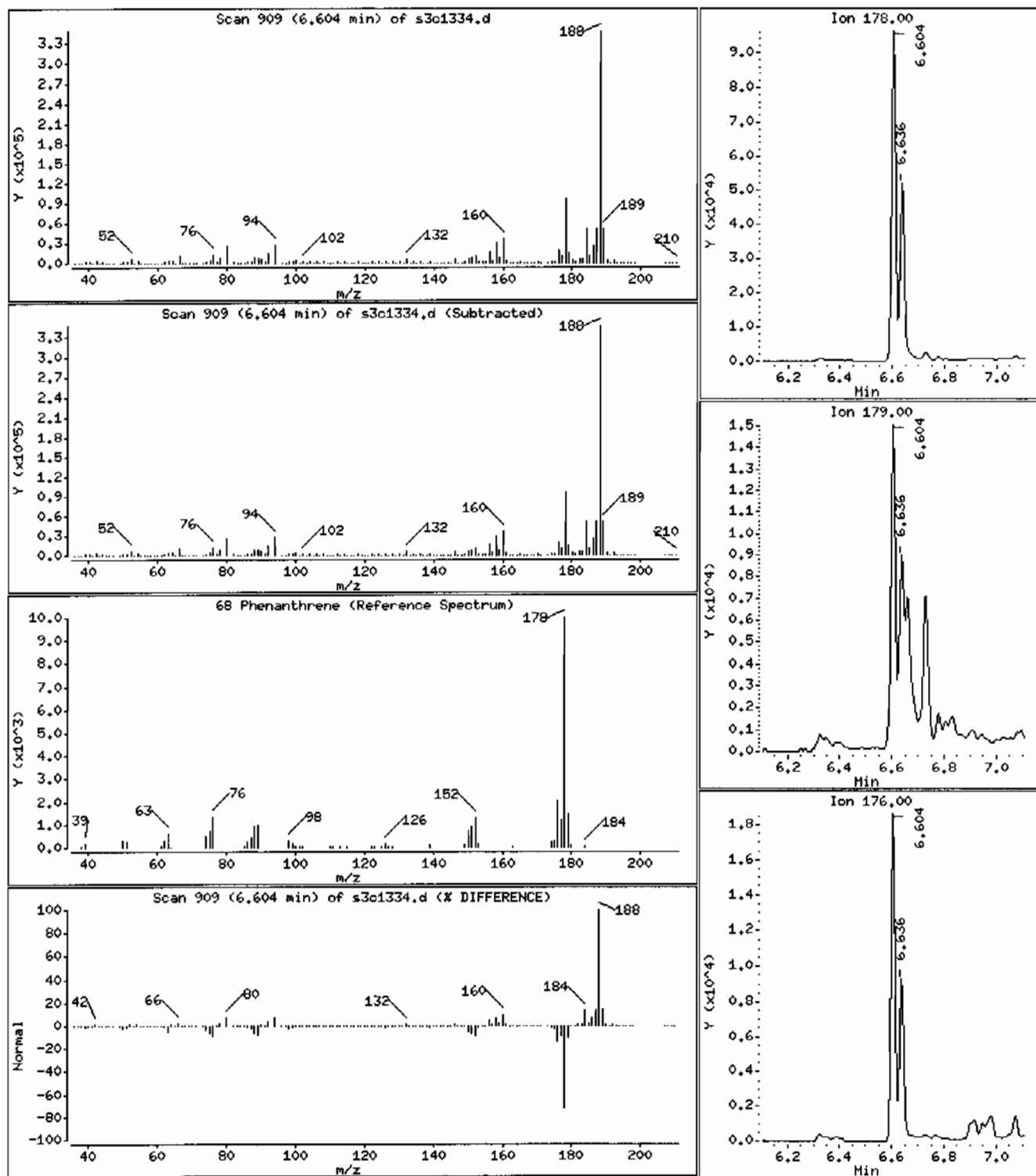
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 1880 ug/Kg



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.1

Sample Info: 124819701119604591201SVHF121LANL

Volume Injected (uL): 0.5

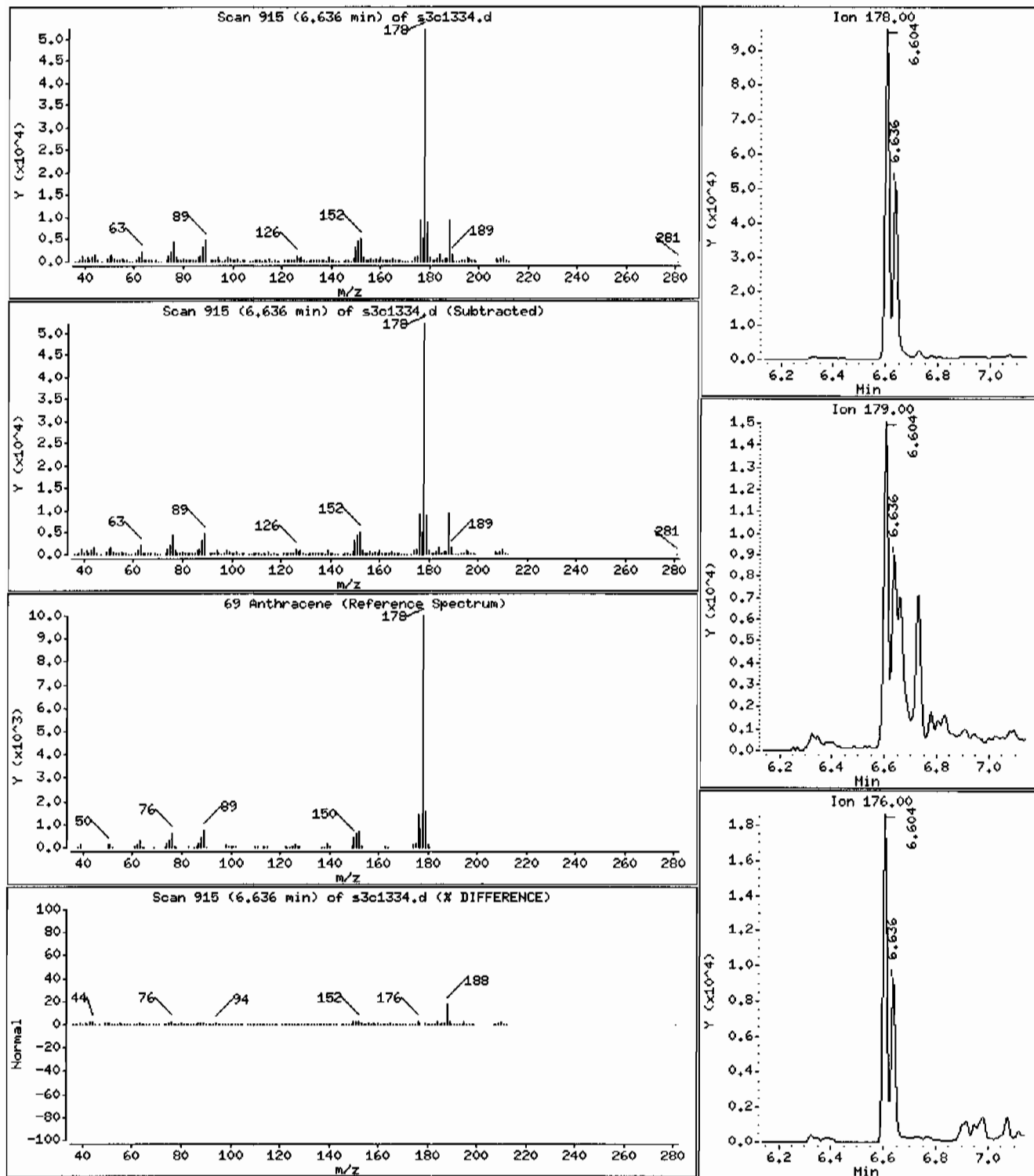
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 1230 ug/Kg



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 124819701119604591201SVMF121LANL

Volume Injected (uL): 0.5

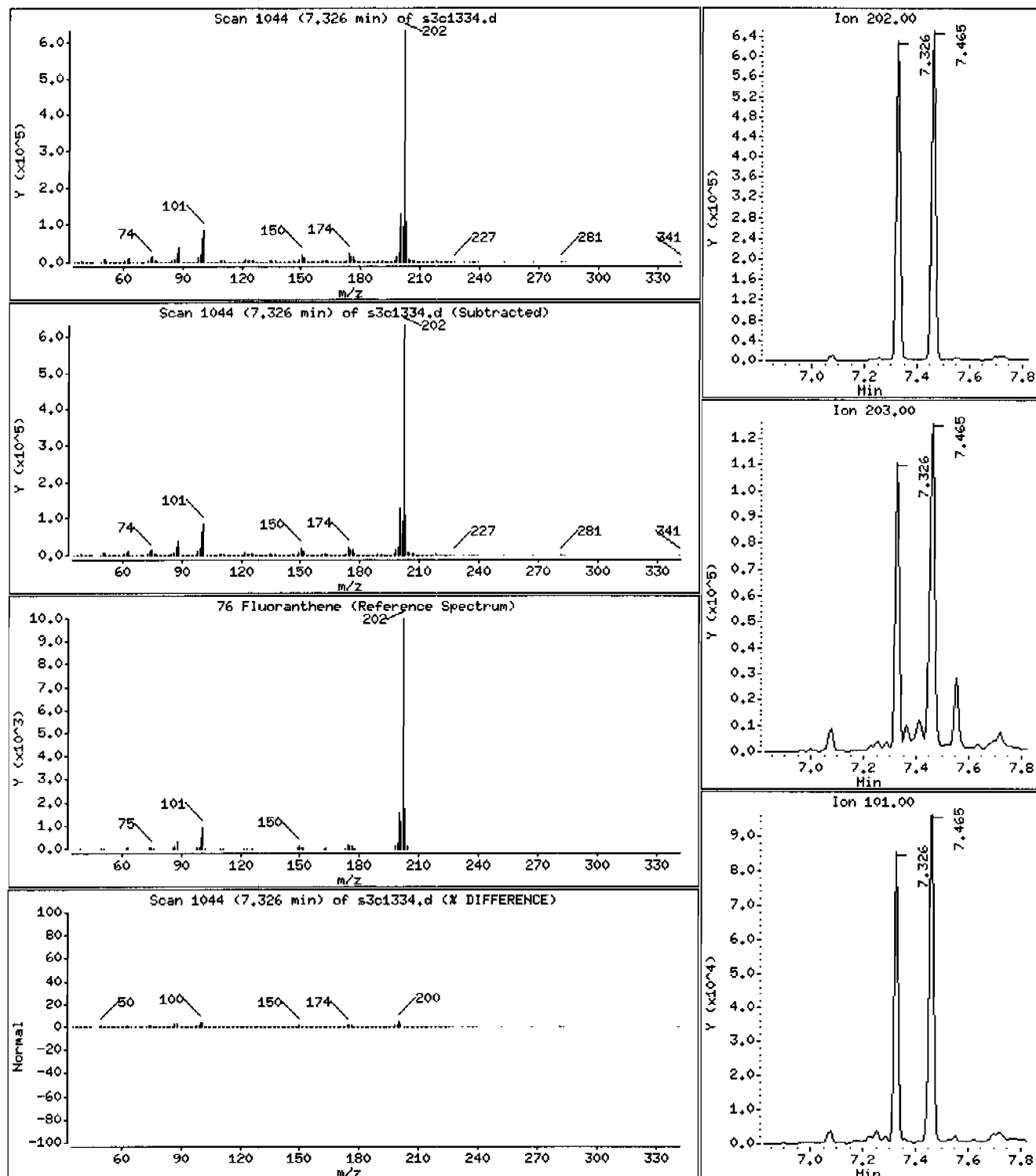
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 13600 ug/Kg



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 1248197011/9604591201SVHF121LANL

Volume Injected (uL): 0.5

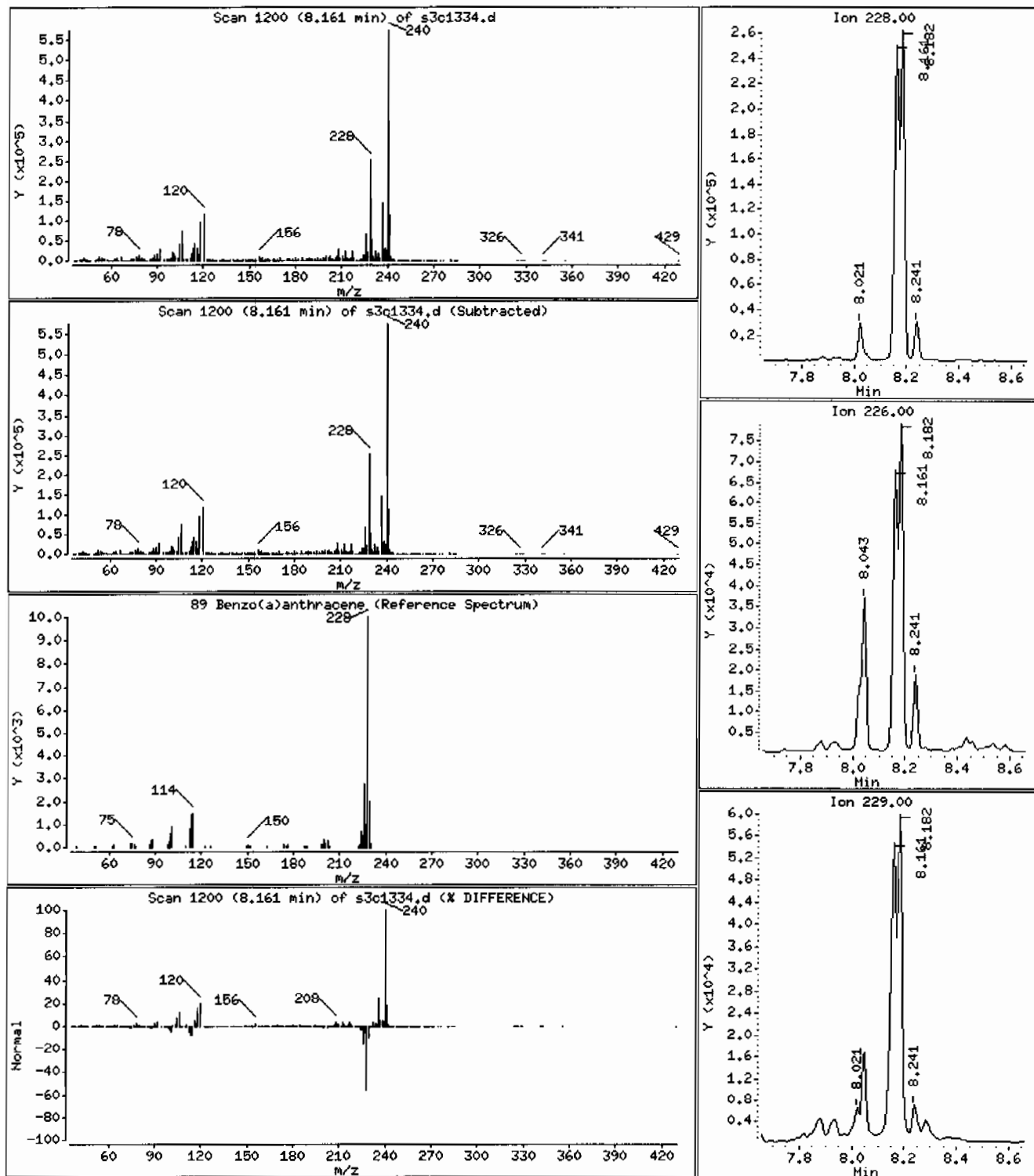
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 10600 ug/Kg



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: 12481970119604591201SVHF12ILANL

Volume Injected (uL): 0.5

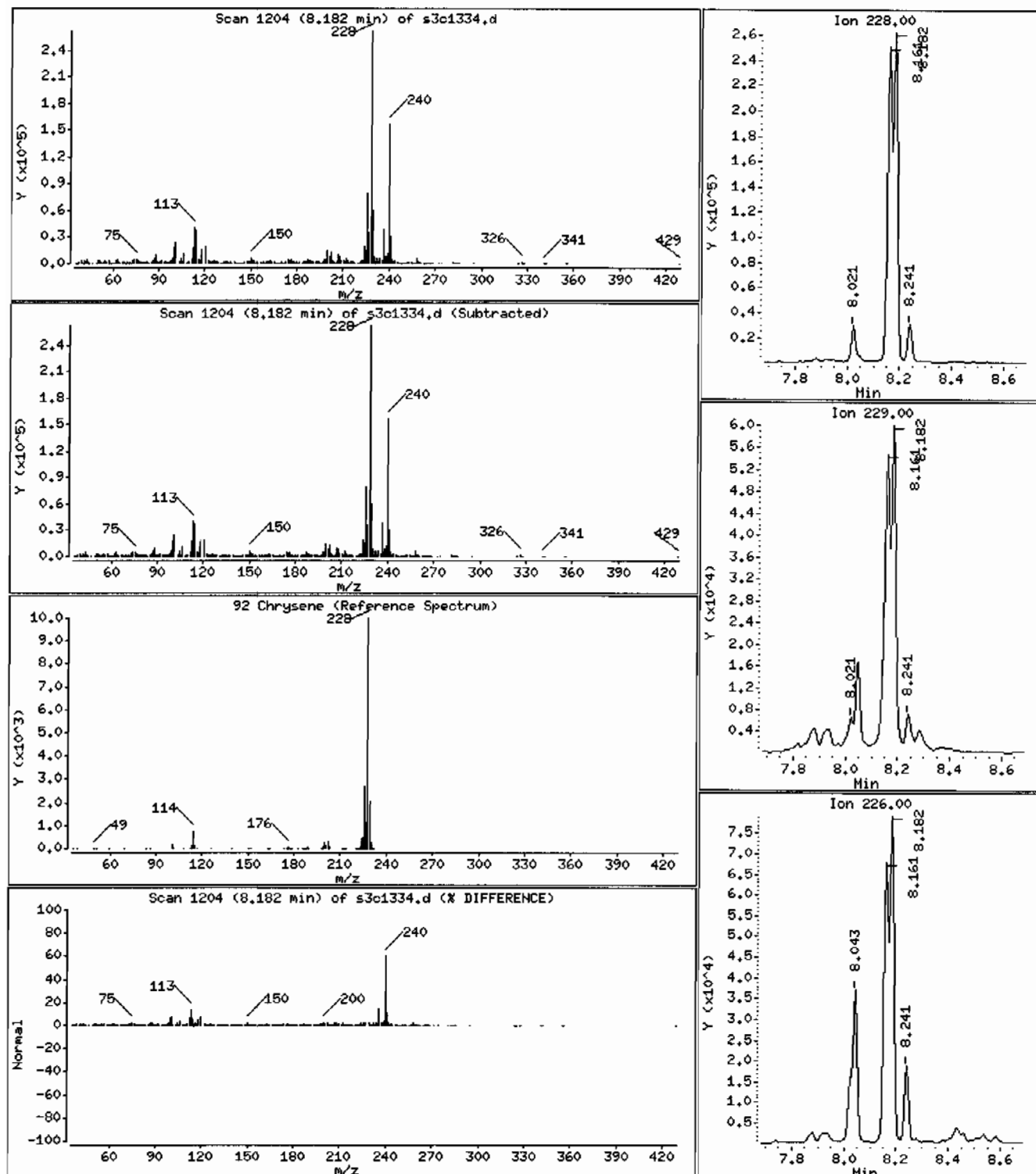
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 11000 ug/Kg



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: 124819701119604591201SVHF121LANL

Volume Injected (uL): 0.5

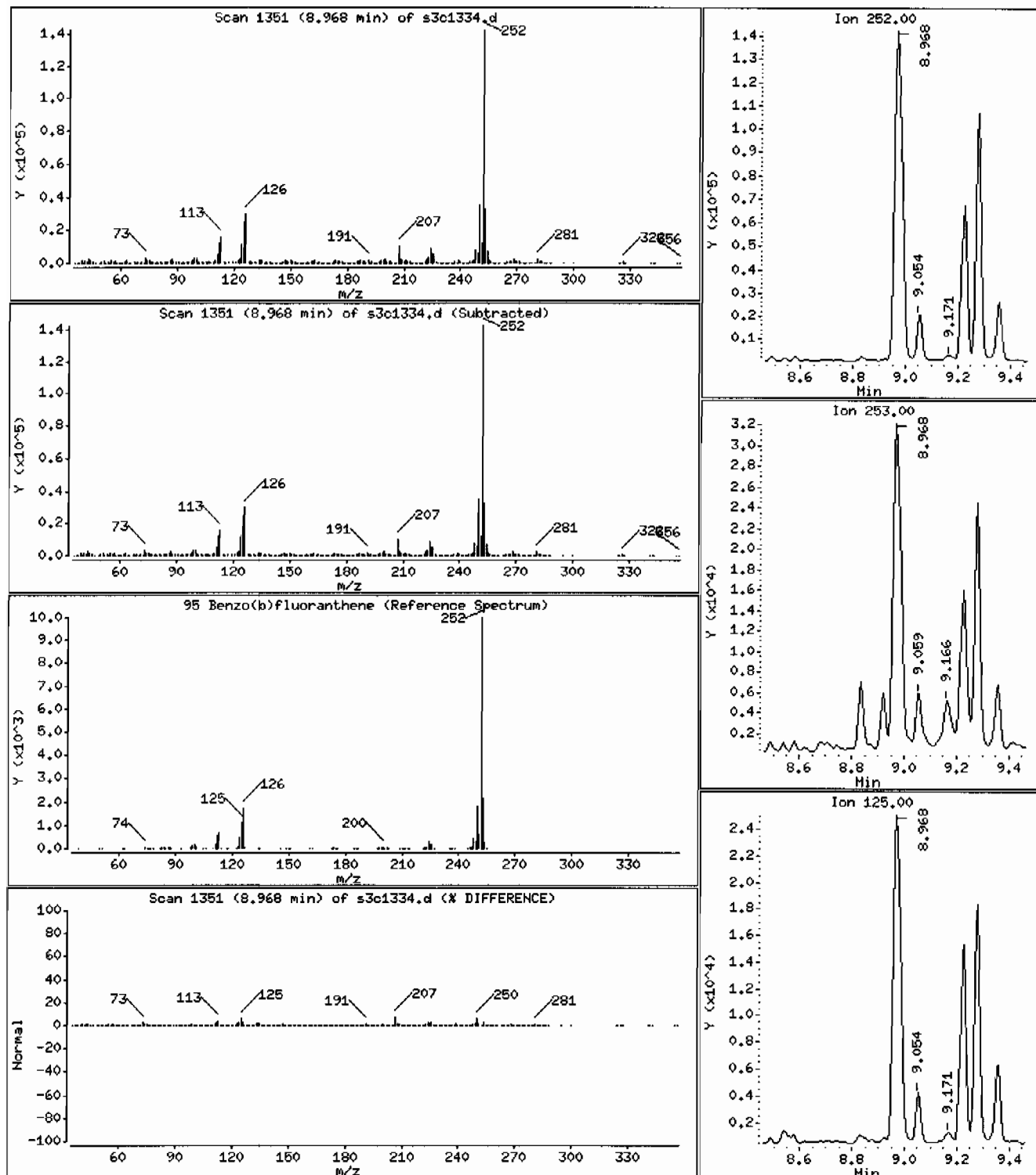
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 17800 ug/Kg



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: 124819701119604591201SVHF121LANL

Volume Injected (uL): 0.5

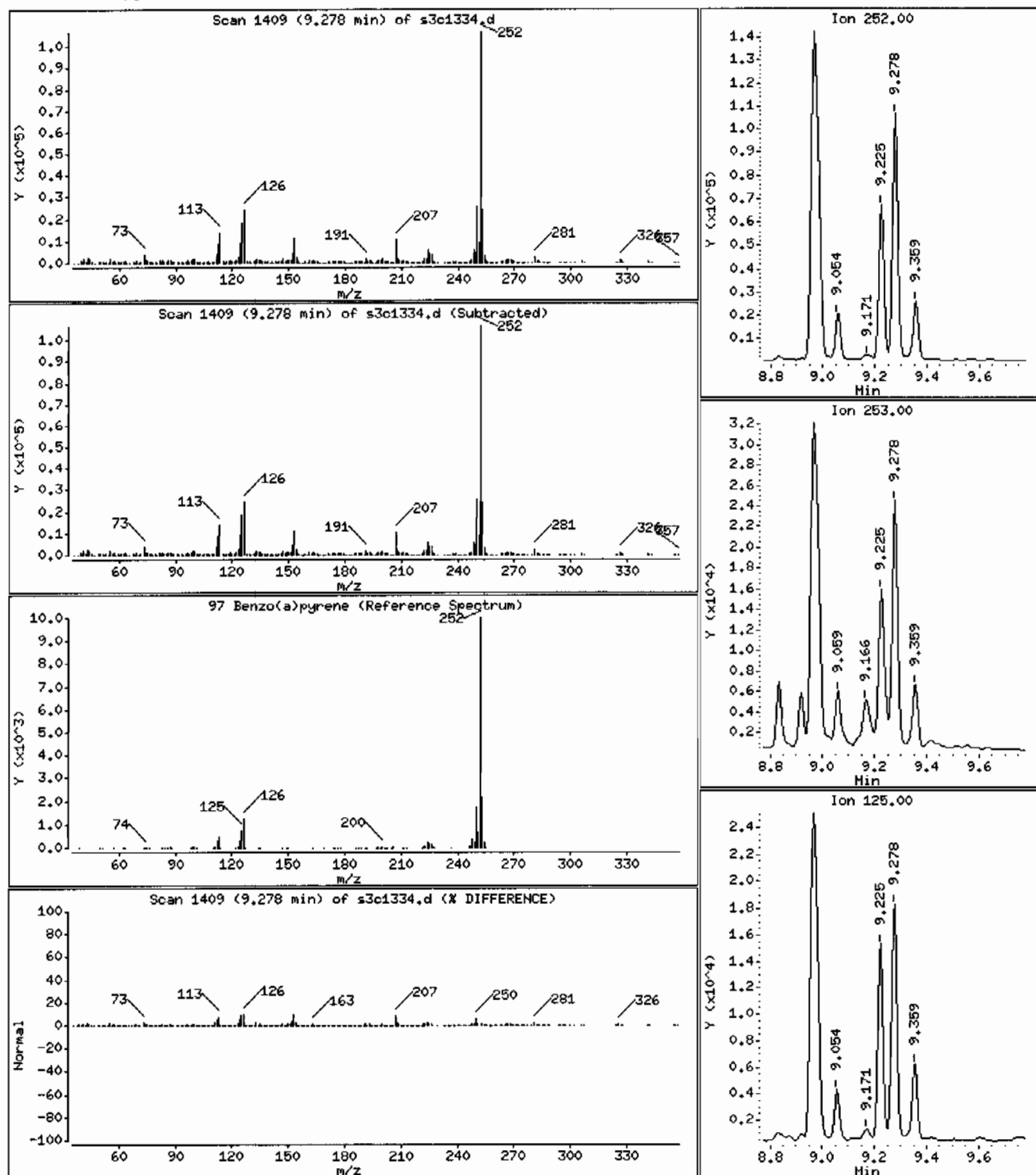
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 10800 ug/Kg



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: I24819701119604591201SVHF12ILANL

Volume Injected (uL): 0.5

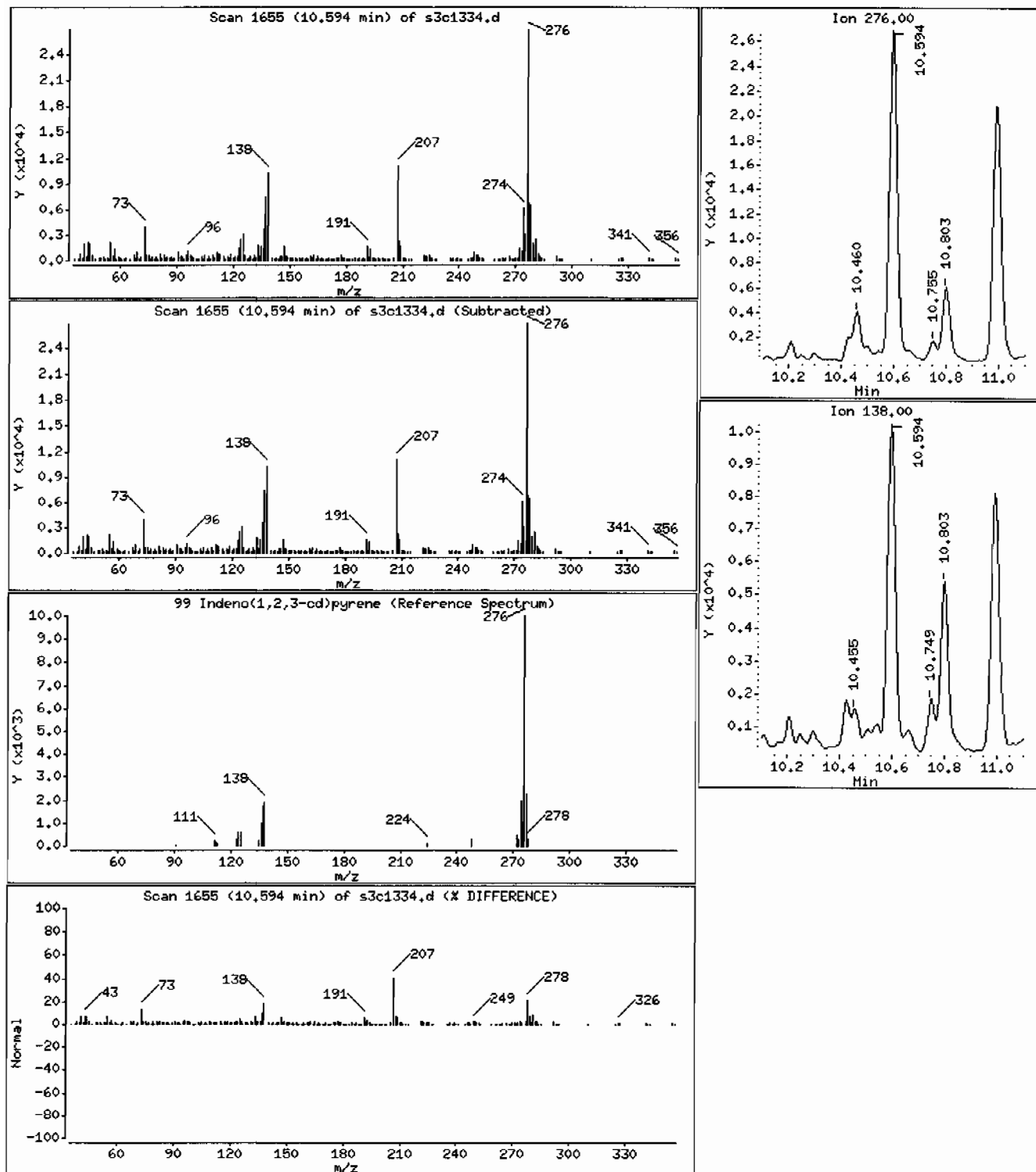
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 4650 ug/Kg



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 124819701119604591201SVHF121LANL

Volume Injected (uL): 0.5

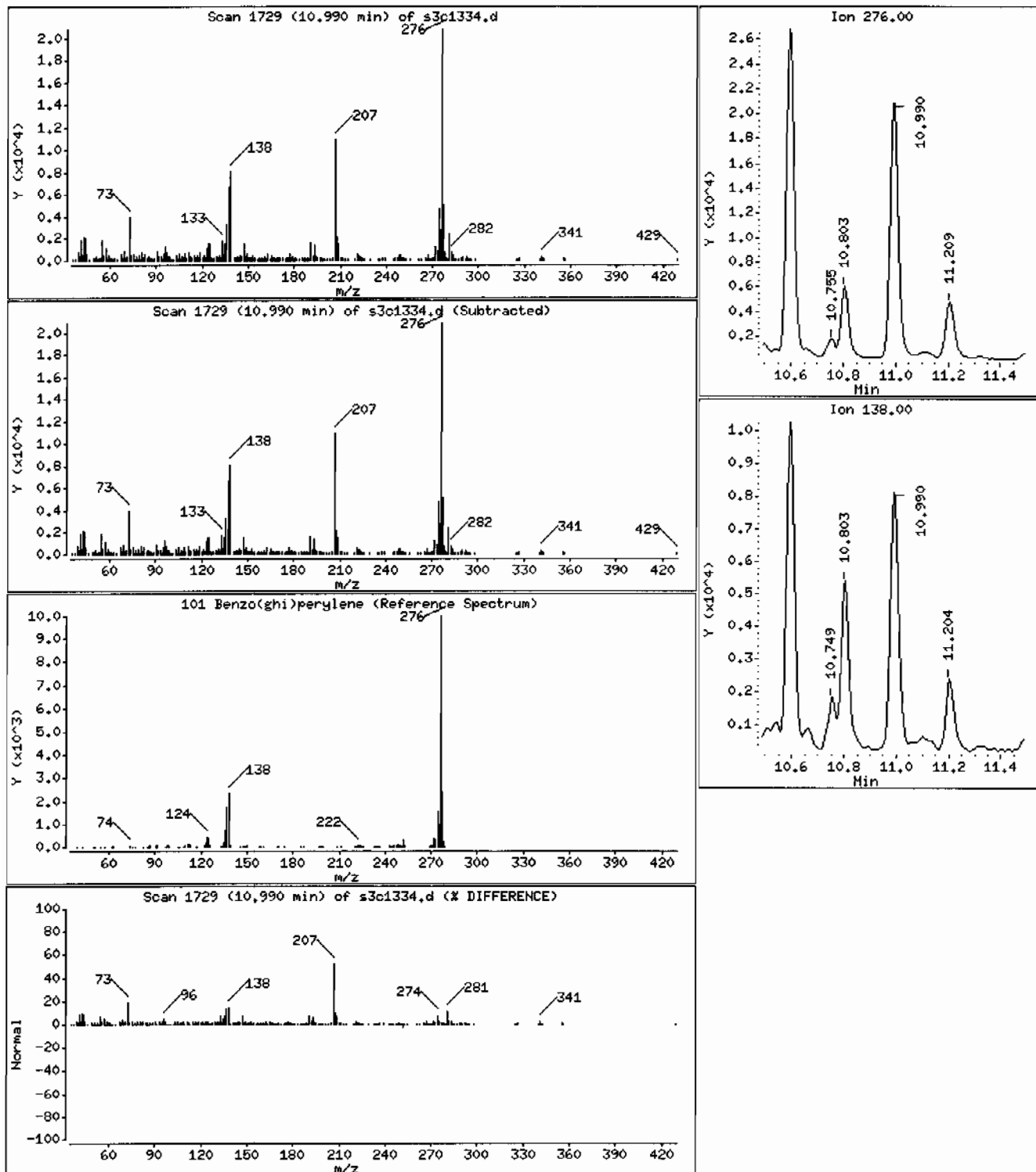
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 4640 ug/Kg



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 12481970119604591201SVMF12ILANL

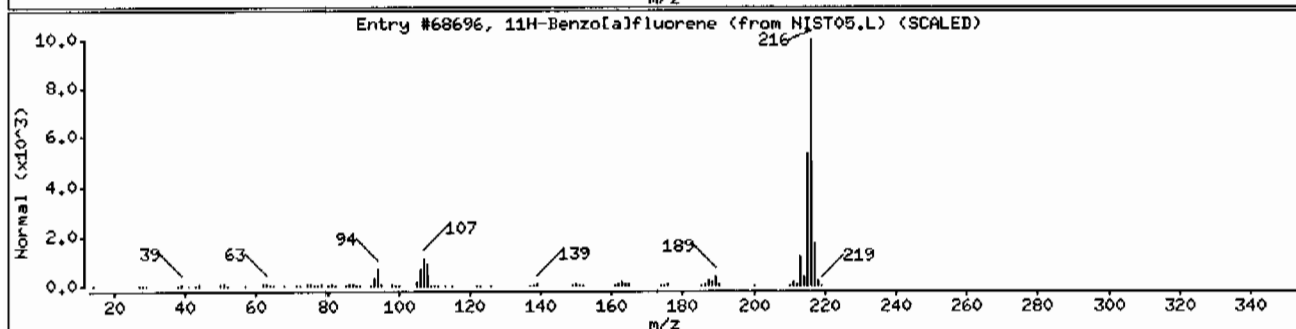
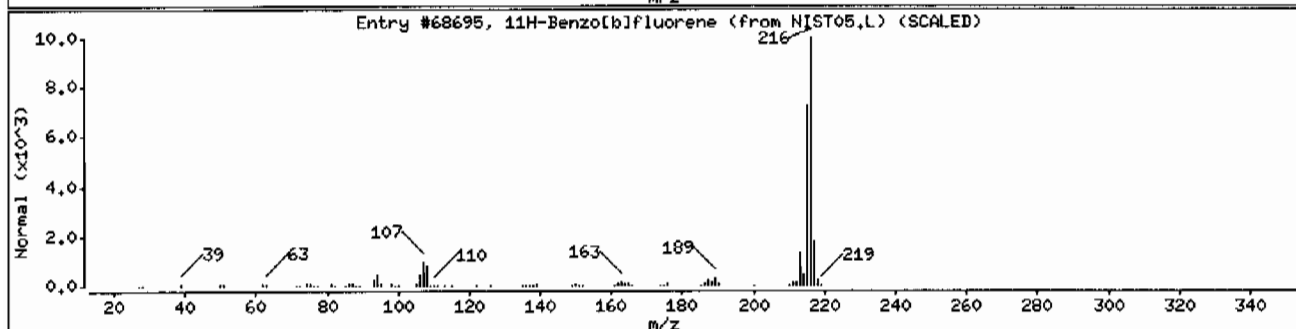
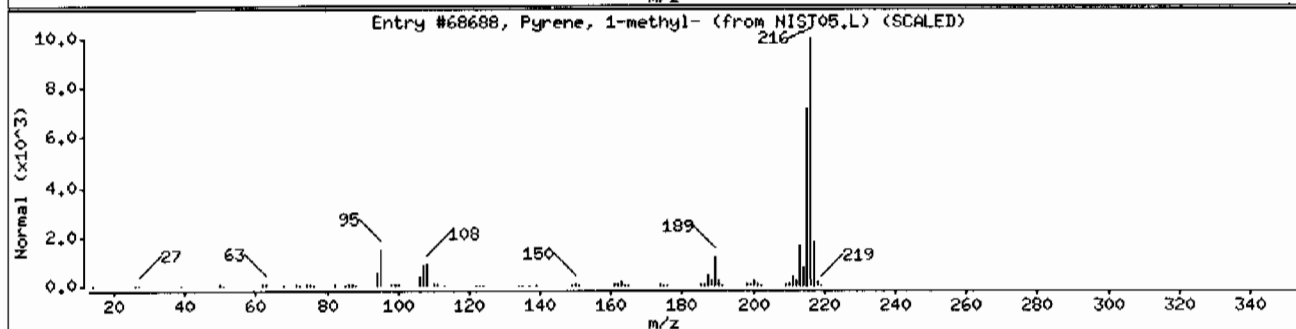
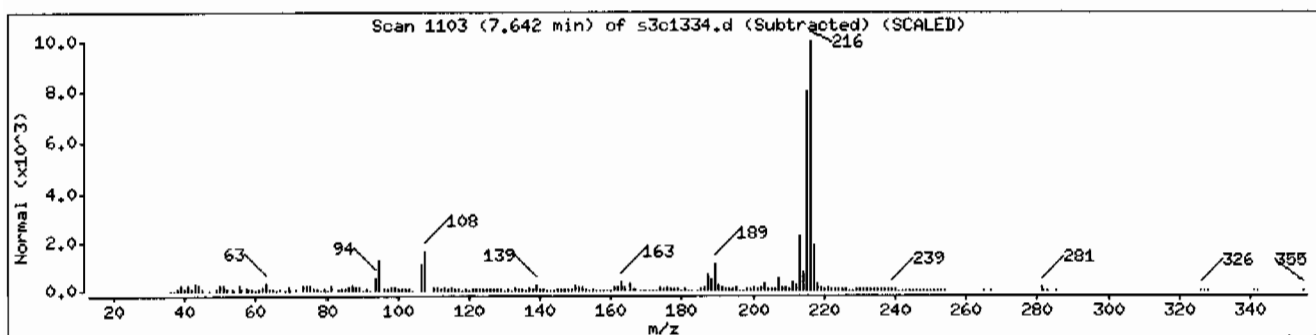
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	97	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	96	C17H12	216
11H-Benzo[a]fluorene	238-84-6	NIST05.L	68696	95	C17H12	216



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: 1248197011/9604591201SVHF121LANL

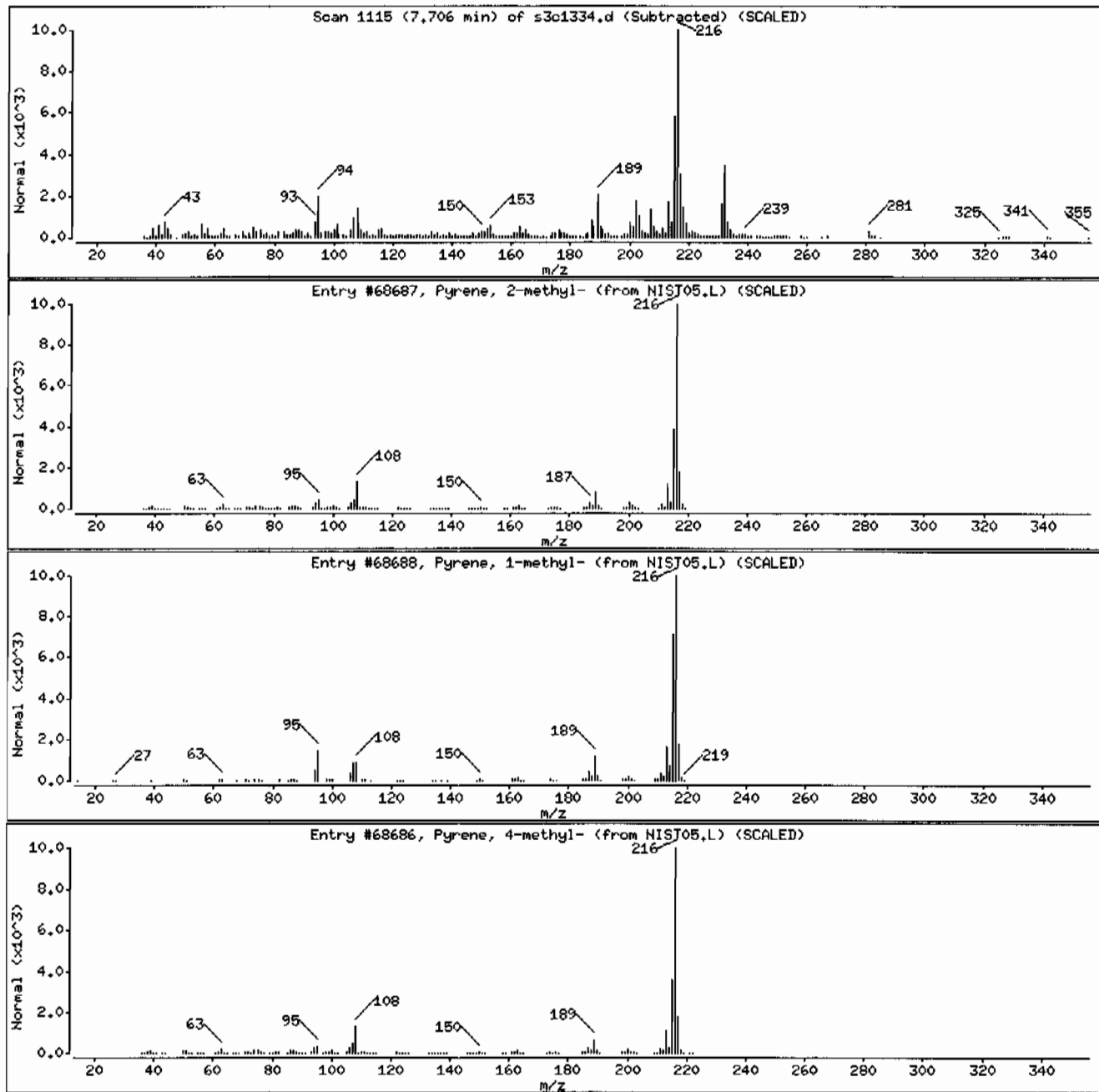
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68687	97	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	93	C17H12	216
Pyrene, 4-methyl-	3353-12-6	NIST05.L	68686	90	C17H12	216



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: I24819701119604591201SVHF12ILANL

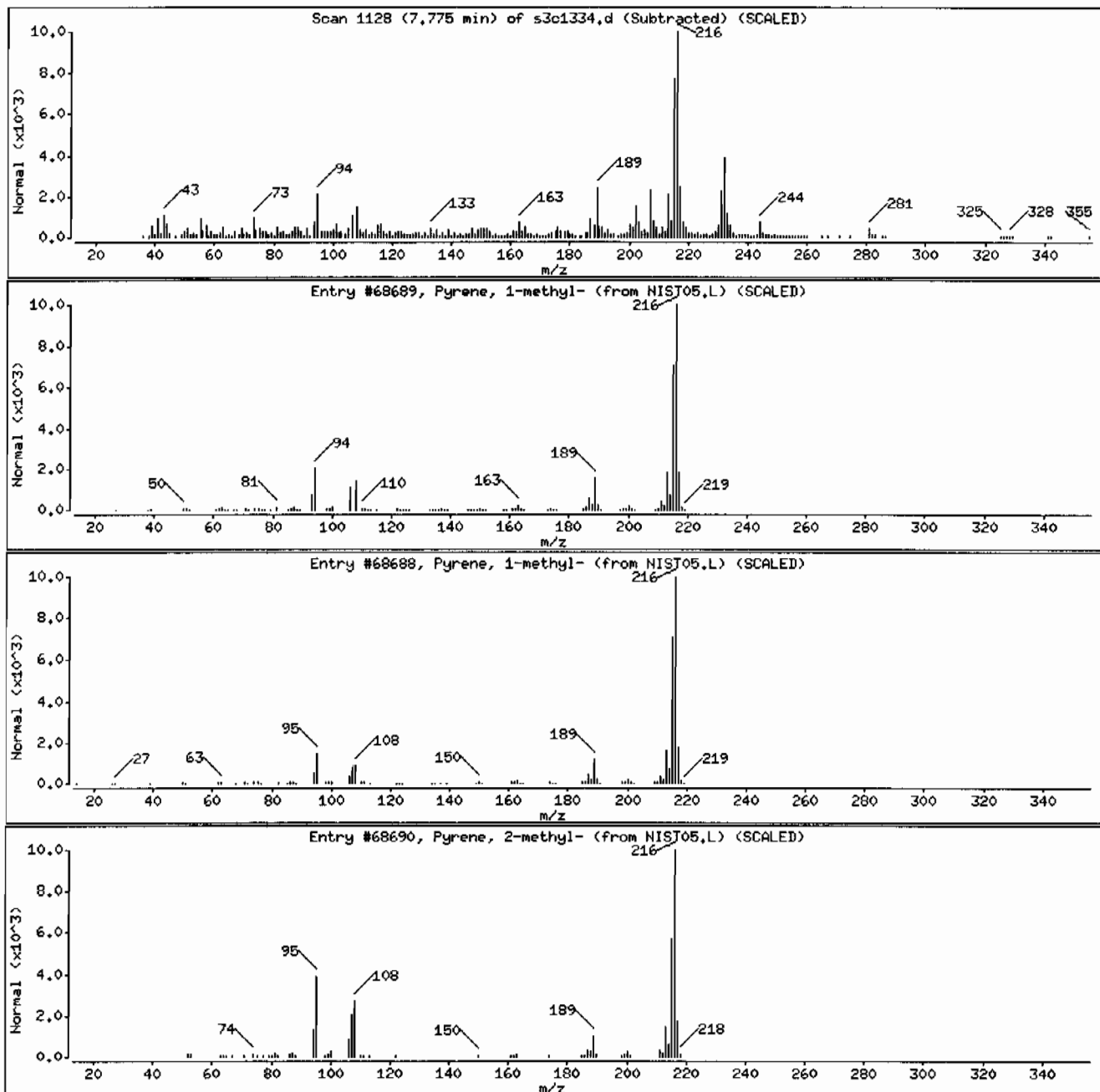
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	91	C17H12	216
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68690	83	C17H12	216



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: HSD3.i

Sample Info: 1248197011|960459|20|SVHF12|LANL

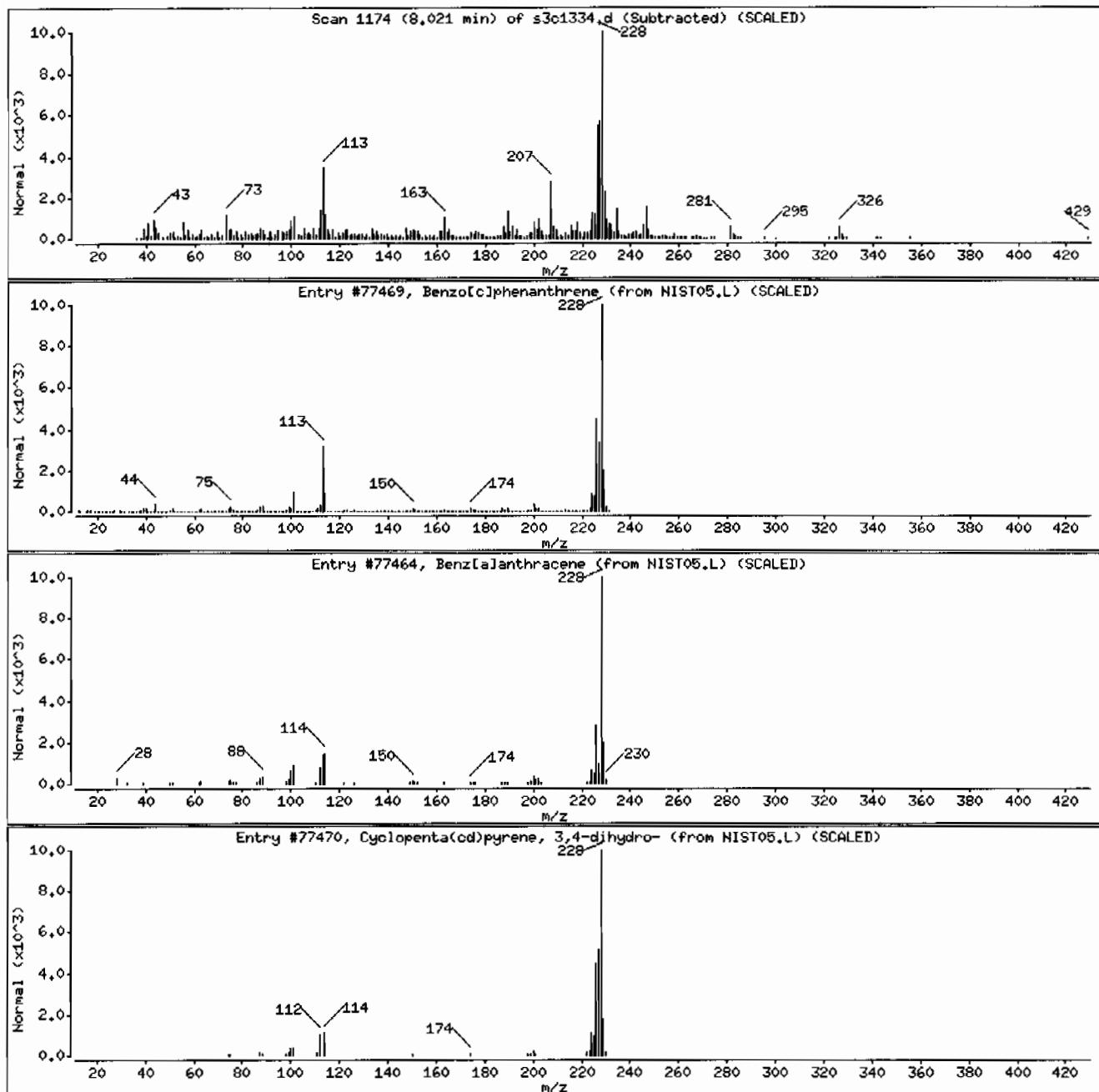
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzo[c]phenanthrene	195-19-7	NIST05.L	77469	86	C18H12	228
Benz[a]anthracene	56-55-3	NIST05.L	77464	66	C18H12	228
Cyclopenta[cd]pyrene, 3,4-dihydro-	25732-74-5	NIST05.L	77470	60	C18H12	228



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3,i

Sample Info: 124819701119604591201SVHF121LANL

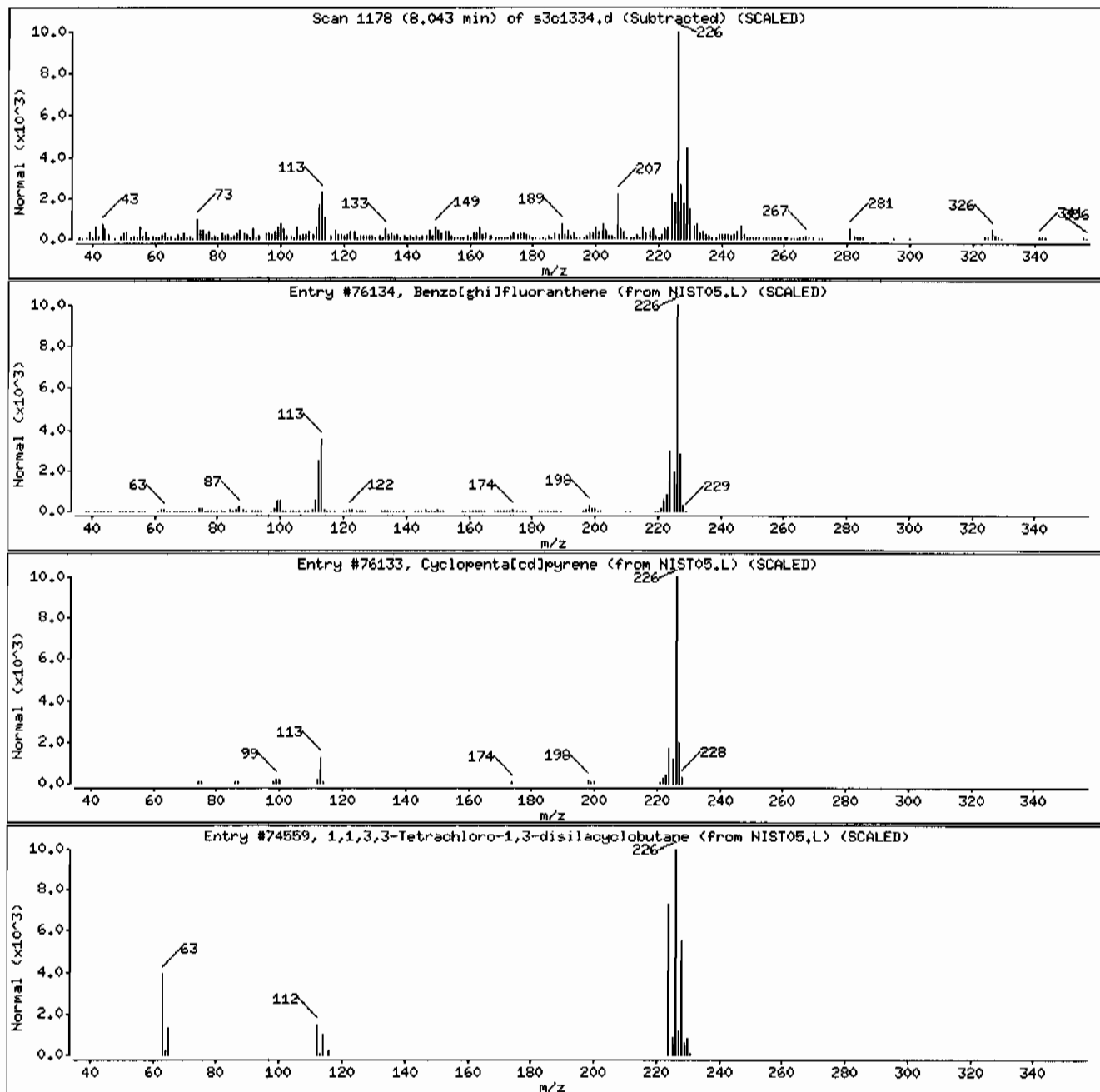
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzo[ghi]fluoranthene	203-12-3	NIST05.L	76134	50	C18H10	226
Cyclopenta[cd]pyrene	27208-37-3	NIST05.L	76133	43	C18H10	226
1,1,3,3-Tetrachloro-1,3-disilacyclobutan	2146-97-6	NIST05.L	74559	38	C2H4Cl4Si2	224



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: 124819701119604591201SVMF12ILANL

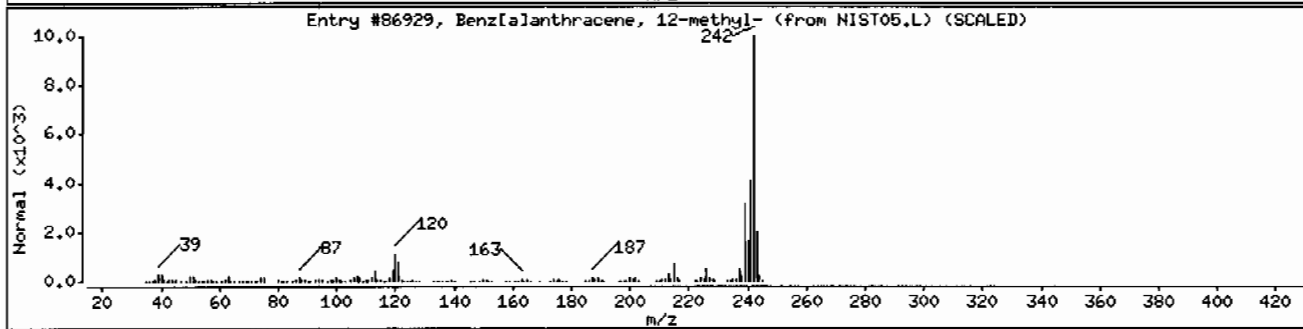
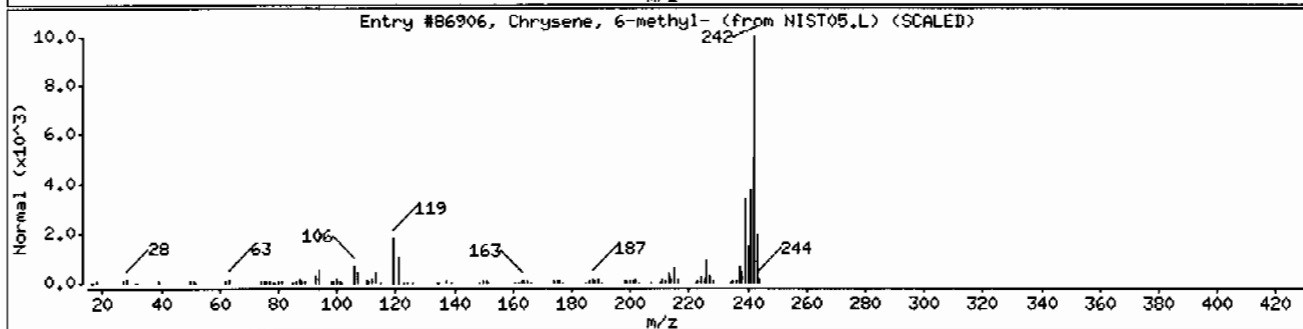
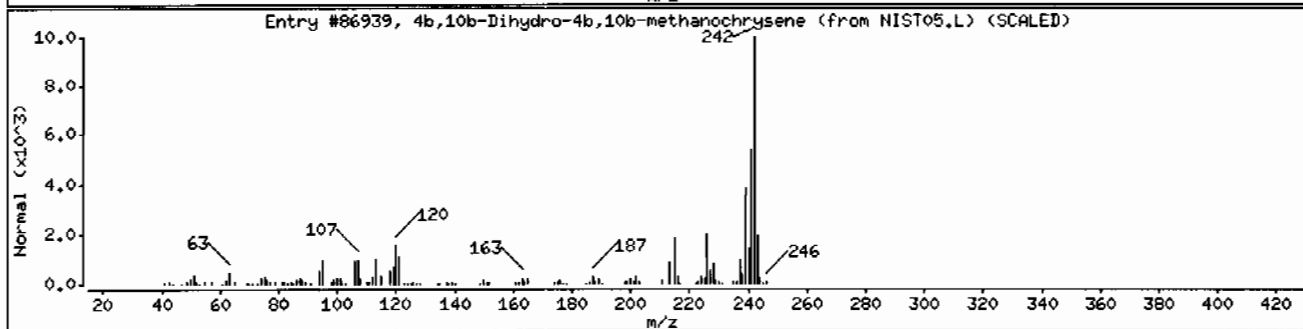
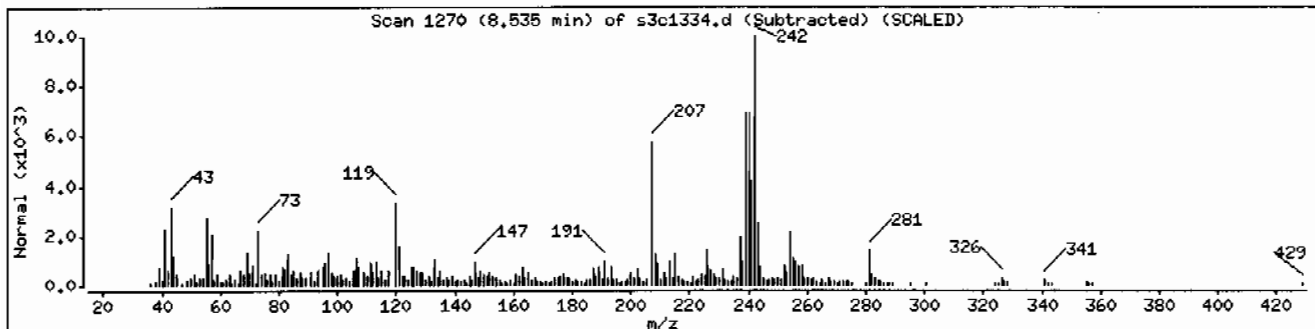
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4b,10b-Dihydro-4b,10b-methanochrysene	71949-03-6	NIST05.L	86939	89	C19H14	242
Chrysene, 6-methyl-	1705-85-7	NIST05.L	86906	84	C19H14	242
Benz[<i>a</i>]anthracene, 12-methyl-	2422-79-9	NIST05.L	86929	52	C19H14	242



Date : 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.1

Sample Info: 124819701119604591201SVHF121LANL

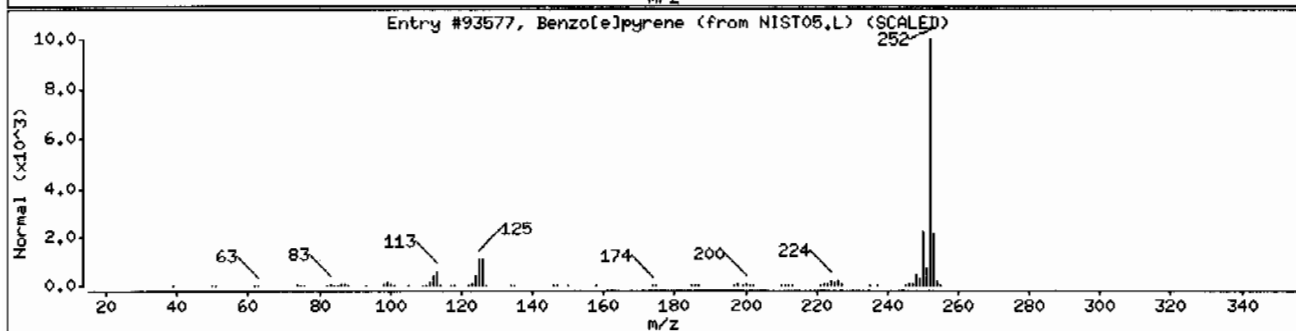
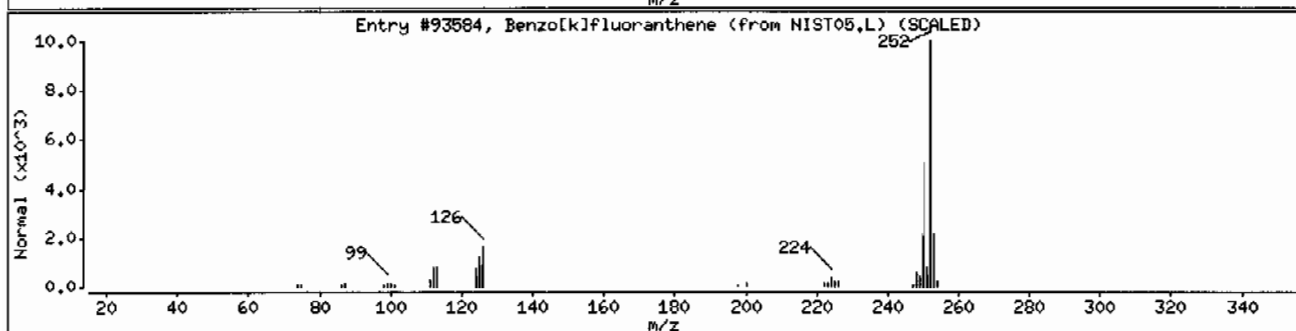
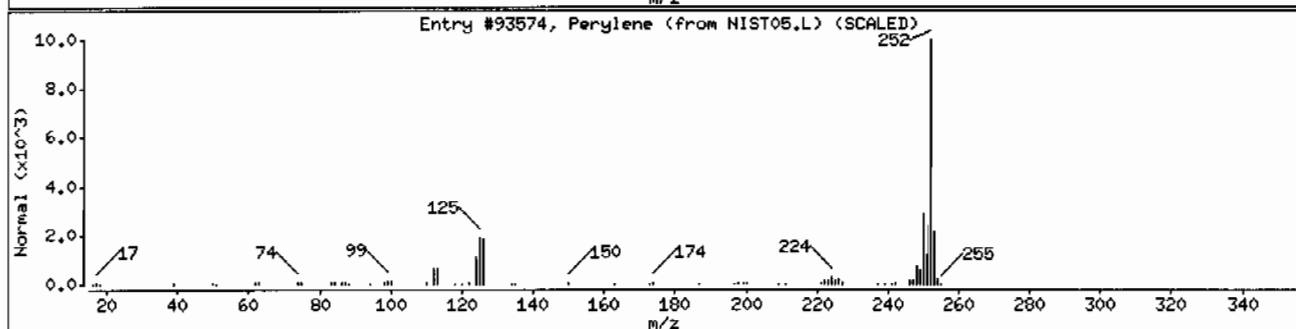
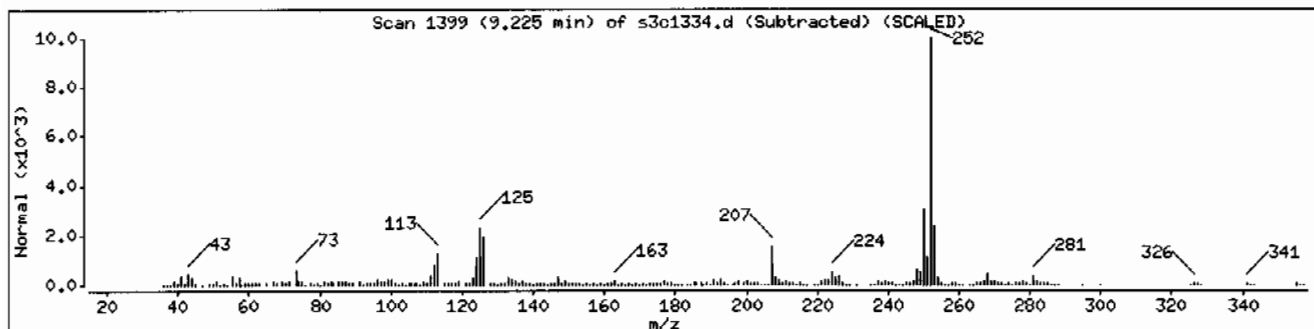
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NIST05.L	93574	99	C20H12	252
Benzo[k]fluoranthene	207-08-9	NIST05.L	93584	98	C20H12	252
Benzo[e]pyrene	192-97-2	NIST05.L	93577	98	C20H12	252



Date: 13-MAR-2010 21:45

Client ID: RE36-10-7425DL

Instrument: MSD3.i

Sample Info: I24819701119604591201SVMF121LANL

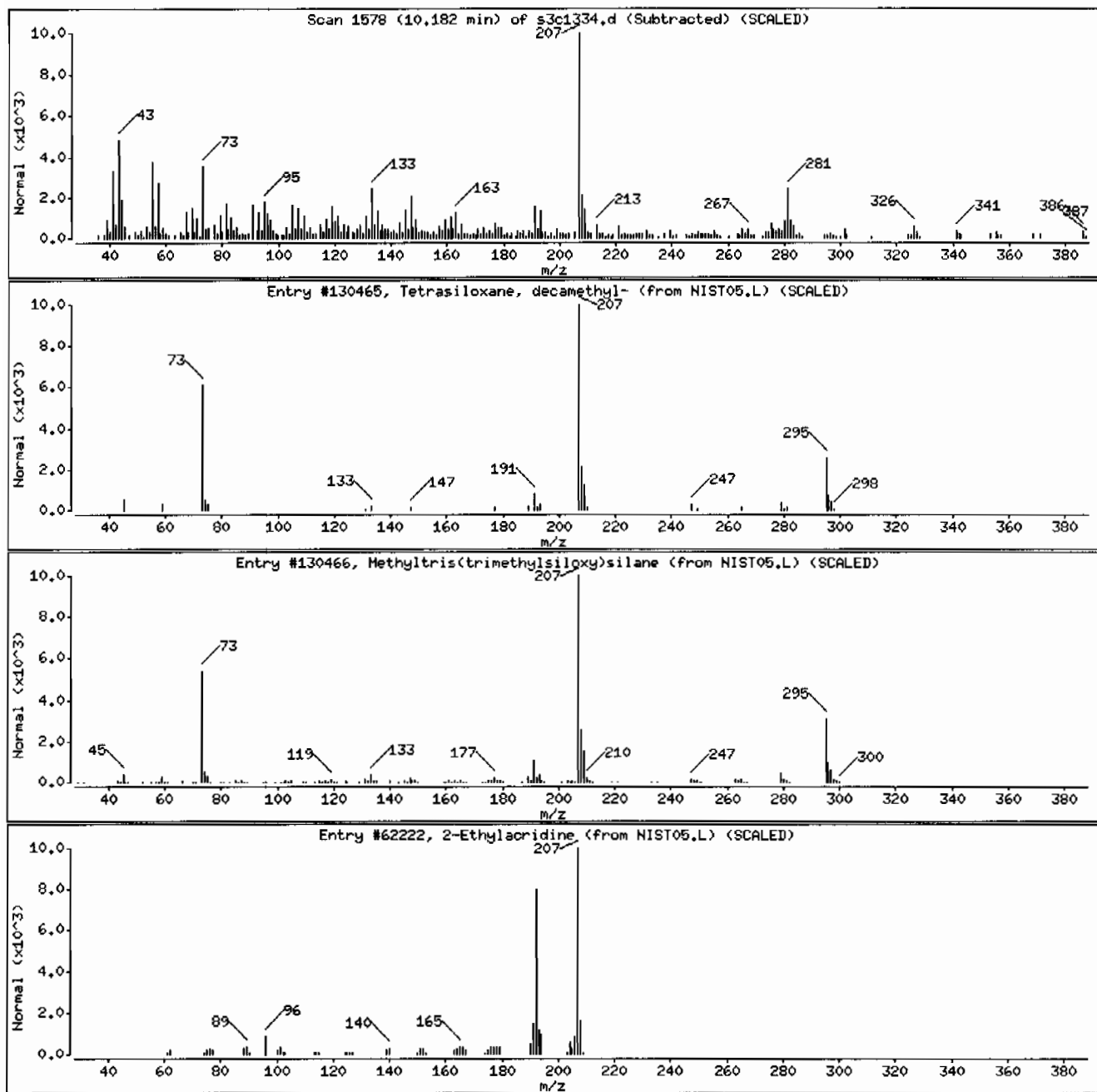
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetrasiloxane, decamethyl-	141-62-8	NIST05.L	130465	47	C10H30O3Si4	310
Methyltris(trimethylsiloxy)silane	17928-28-8	NIST05.L	130466	47	C10H30O3Si4	310
2-Ethylacridine	55751-83-2	NIST05.L	62222	46	C15H13N	207



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

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.11 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 12.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
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	1520	ug/kg	303	1520
108-95-2	Phenol	U	1520	ug/kg	303	1520
95-57-8	2-Chlorophenol	U	1520	ug/kg	303	1520
106-46-7	1,4-Dichlorobenzene	U	1520	ug/kg	303	1520
621-64-7	N-Nitrosodipropylamine	U	1520	ug/kg	303	1520
59-50-7	4-Chloro-3-methylphenol	U	1520	ug/kg	303	1520
83-32-9	Accnaphthene	U	152	ug/kg	50.1	152
121-14-2	2,4-Dinitrotoluene	U	1520	ug/kg	152	1520
100-02-7	4-Nitrophenol	U	1520	ug/kg	501	1520
87-86-5	Pentachlorophenol	U	1520	ug/kg	379	1520
129-00-0	Pyrene		2710	ug/kg	45.5	152
110-86-1	Pyridine	U	1520	ug/kg	303	1520
62-53-3	Aniline	U	1520	ug/kg	455	1520
111-44-4	bis(2-Chloroethyl) ether	U	1520	ug/kg	303	1520
541-73-1	1,3-Dichlorobenzene	U	1520	ug/kg	303	1520
100-51-6	Benzyl alcohol	U	1520	ug/kg	455	1520
95-50-1	1,2-Dichlorobenzene	U	1520	ug/kg	303	1520
108-60-1	bis(2-Chloroisopropyl)ether	U	1520	ug/kg	303	1520
95-48-7	o-Cresol	U	1520	ug/kg	303	1520
65794-96-9	m,p-Cresols	U	1520	ug/kg	455	1520
67-72-1	Hexachloroethane	U	1520	ug/kg	303	1520
98-95-3	Nitrobenzene	U	1520	ug/kg	303	1520
78-59-1	Isophorone	U	1520	ug/kg	303	1520
88-75-5	2-Nitrophenol	U	1520	ug/kg	303	1520
105-67-9	2,4-Dimethylphenol	U	1520	ug/kg	531	1520
111-91-1	bis(2-Chloroethoxy)methane	U	1520	ug/kg	303	1520
120-83-2	2,4-Dichlorophenol	U	1520	ug/kg	303	1520
65-85-0	Benzoic acid	U	3030	ug/kg	759	3030
91-20-3	Naphthalene	U	152	ug/kg	45.5	152
106-47-8	4-Chloroaniline	U	1520	ug/kg	303	1520
87-68-3	Hexachlorobutadiene	U	1520	ug/kg	303	1520
91-57-6	2-Methylnaphthalene	U	152	ug/kg	30.3	152
77-47-4	Hexachlorocyclopentadiene	U	1520	ug/kg	303	1520
88-06-2	2,4,6-Trichlorophenol	U	1520	ug/kg	303	1520
95-95-4	2,4,5-Trichlorophenol	U	1520	ug/kg	303	1520
91-58-7	2-Chloronaphthalene	U	152	ug/kg	50.1	152
88-74-4	2-Nitroaniline	U	1520	ug/kg	303	1520
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	1520	ug/kg	303	1520

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

SDG Number: 10-2121
Lab Sample ID: 248197007

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.1
Analyst: JLD1
Aliquot: 30.11 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 12.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7426
Batch ID: 960459
Run Date: 03/13/2010 17:15
Prep Date: 03/03/2010 23:09
Data File: s3c1320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	1520	ug/kg	303	1520
606-20-2	2,6-Dinitrotoluene	U	1520	ug/kg	152	1520
208-96-8	Acenaphthylene	U	152	ug/kg	45.5	152
51-28-5	2,4-Dinitrophenol	U	3030	ug/kg	577	3030
132-64-9	Dibenzofuran	U	1520	ug/kg	303	1520
84-66-2	Diethylphthalate	U	1520	ug/kg	303	1520
86-73-7	Fluorene	U	152	ug/kg	45.5	152
7005-72-3	4-Chlorophenylphenylether	U	1520	ug/kg	303	1520
534-52-1	2-Methyl-4,6-dinitrophenol	U	1520	ug/kg	303	1520
100-01-6	4-Nitroaniline	U	1520	ug/kg	455	1520
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	1520	ug/kg	303	1520
122-66-7	Azobenzene	U	1520	ug/kg	303	1520
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	1520	ug/kg	303	1520
118-74-1	Hexachlorobenzene	U	1520	ug/kg	303	1520
85-01-8	Phenanthrene		278	ug/kg	45.5	152
120-12-7	Anthracene		171	ug/kg	30.3	152
84-74-2	Di-n-butylphthalate	U	1520	ug/kg	303	1520
206-44-0	Fluoranthene		2020	ug/kg	45.5	152
85-68-7	Butylbenzylphthalate	U	1520	ug/kg	303	1520
56-55-3	Benzo(a)anthracene		1610	ug/kg	45.5	152
91-94-1	3,3'-Dichlorobenzidine	U	1520	ug/kg	455	1520
218-01-9	Chrysene		1480	ug/kg	45.5	152
117-81-7	bis(2-Ethylhexyl)phthalate	U	1520	ug/kg	303	1520
117-84-0	Di-n-octylphthalate	U	1520	ug/kg	303	1520
205-99-2	Benzo(b)fluoranthene		2530	ug/kg	45.5	152
207-08-9	Benzo(k)fluoranthene	U	152	ug/kg	45.5	152
50-32-8	Benzo(a)pyrene		1510	ug/kg	45.5	152
193-39-5	Indeno(1,2,3-cd)pyrene		628	ug/kg	45.5	152
53-70-3	Dibenzo(a,h)anthracene	U	152	ug/kg	45.5	152
191-24-2	Benzo(ghi)perylene		623	ug/kg	45.5	152
120-82-1	1,2,4-Trichlorobenzene	U	1520	ug/kg	303	1520

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
7785-70-8	1R-.alpha.-Pinene	3.05	2010	ug/kg	98	NJ
79-92-5	Camphene	3.15	988	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197007	Date Received: 02/26/2010 08:45	%Moisture: 12.5
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7426	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 4
Run Date: 03/13/2010 17:15	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.11 g	Final Volume: 1 mL
Data File: s3c1320.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
123-35-3	.beta.-Myrcene	3.29	2020	ug/kg	91	NJ
4230-32-4	Bicyclo[2.2.1]heptane-2,5-dione, 1,7,7-t	4.66	792	ug/kg	91	NJ
	Unknown	5.24	873	ug/kg		J
	Unknown	6.89	1020	ug/kg		J
	Unknown	6.98	1160	ug/kg		J
	Unknown	8.01	981	ug/kg		J
3351-32-4	Chrysene, 2-methyl-	8.43	1210	ug/kg	94	NJ
	Unknown	10.67	1850	ug/kg		J
83-46-5	.beta.-Sitosterol	11.06	3090	ug/kg	93	NJ
	Unknown	11.27	1360	ug/kg		J
	Unknown	11.4	6910	ug/kg		J
	Unknown	11.49	1660	ug/kg		J
469-38-5	9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	11.69	2690	ug/kg	83	NJ
	Unknown	11.8	2790	ug/kg		J

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1320.d
Lab Smp Id: 248197007 Client Smp ID: RE36-10-7426
Inj Date : 13-MAR-2010 17:15
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197007|960459|4|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclpl

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

Name	Value	Description
DF	4.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.11000	weight of sample
M	12.45700	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473	(1.000)	507567	40.0000		
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	1956097	40.0000		
* 46 Acenaphthene-d10	164	5.566	5.570	(1.000)	1028387	40.0000		
* 67 Phenanthrene-d10	188	6.588	6.592	(1.000)	1653883	40.0000		
* 91 Chrysene-d12	240	8.166	8.169	(1.000)	900898	40.0000		
* 98 Perylene-d12	264	9.327	9.330	(1.000)	481475	40.0000		
\$ 3 2-Fluorophenol	112	2.684	2.682	(0.772)	239241	20.9740		3180
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	267772	19.9817		3030
\$ 20 Nitrobenzene-d5	82	3.833	3.837	(0.886)	124649	11.1936		1700
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	279190	10.6706		1620
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126	(1.100)	47581	20.1790		3060
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	212599	15.2244		2310

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
79 Pyrene		202	7.460	7.463	(0.914)	466452	17.8811	2710
68 Phenanthrene		178	6.604	6.608	(1.002)	68668	1.83290	278
69 Anthracene		178	6.636	6.640	(1.007)	41360	1.12757	171
76 Fluoranthene		202	7.326	7.324	(1.112)	451659	13.3096	2020
89 Benzo(a)anthracene		228	8.161	8.159	(0.999)	222467	10.6331	1610
92 Chrysene		228	8.182	8.185	(1.002)	209247	9.78140	1480
95 Benzo(b)fluoranthene		252	8.963	8.966	(0.961)	203562	16.6567	2530
97 Benzo(a)pyrene		252	9.273	9.277	(0.994)	104525	9.95614	1510
99 Indeno(1,2,3-cd)pyrene		276	10.594	10.603	(1.136)	37457	4.13783	628
101 Benzo(ghi)perylene		276	10.990	10.993	(1.178)	30530	4.10539	623

ION RATIO REPORT

SV REPORT

Data file: s3c1320.d

Report Date: 03/14/2010 14:33

Lab. ID: 248197007

SampleType: SAMPLE

Injection Date: 13-MAR-2010 17:15

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197007|960459|4|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 4.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	17038	3.83	3.72	80-120	100	(T)
42	14570	3.83	3.72	76-136	86	(T)

22 Isophorone				CAS#: 78-59-1		
82	123648	3.83	4.00	80-120	100	(T)
138	163	3.91	4.00	0- 55	0	(T)

27 Benzoic acid				CAS#: 65-85-0		
105	263	4.11	4.12	80-120	100	()
122	307	4.16	4.12	55-115	116	(Q)
77	1542	4.14	4.12	29- 89	585	(Q)

43 Dimethylphthalate				CAS#: 131-11-3		
163	187120	5.57	5.35	80-120	100	(T)
164	1030245	5.57	5.35	0- 40	551	(QT)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	134864	5.57	5.40	80-120	100	(T)
63	2226	5.57	5.40	49-109	2	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	134864	5.57	5.69	80-120	100	(T)
89	2322	5.57	5.69	48-108	2	(QT)
63	2226	5.57	5.69	21- 81	2	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
52 4-Nitrophenol		CAS#: 100-02-7				
139	626	5.71	5.63	80-120	100	(T)
109	5051	5.57	5.63	39- 99	807	(QT)
65	538	5.63	5.63	60-120	86	()
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	397	6.06	5.98	80-120	100	(T)
105	746	6.02	5.98	14- 74	188	(Q)
51	388	6.06	5.98	40-100	98	(T)
<hr/>						
56 p-Nitroaniline		CAS#: 100-01-6				
138	295	6.02	5.97	80-120	100	()
108	306	6.02	5.97	35- 95	104	(Q)
92	386	6.02	5.97	5- 65	131	(Q)
<hr/>						
68 Phenanthrene		CAS#: 85-01-8				
178	68668	6.60	6.61	80-120	100	()
179	12069	6.60	6.61	0- 46	18	()
176	12777	6.60	6.61	0- 49	19	()
<hr/>						
69 Anthracene		CAS#: 120-12-7				
178	41360	6.64	6.64	80-120	100	()
179	8205	6.64	6.64	0- 46	20	()
176	7064	6.64	6.64	0- 49	17	()
<hr/>						
76 Fluoranthene		CAS#: 206-44-0				
202	451659	7.33	7.32	80-120	100	()
203	77021	7.33	7.32	0- 47	17	()
101	57742	7.33	7.32	0- 43	13	()
<hr/>						
79 Pyrene		CAS#: 129-00-0				
202	466452	7.46	7.46	80-120	100	()
200	99359	7.46	7.46	0- 51	21	()
101	78211	7.46	7.46	0- 46	17	()
<hr/>						
89 Benzo(a)anthracene		CAS#: 56-55-3				
228	222467	8.16	8.16	80-120	100	()
226	61593	8.16	8.16	0- 57	28	()
229	61589	8.16	8.16	0- 50	28	()
<hr/>						
92 Chrysene		CAS#: 218-01-9				
228	209247	8.18	8.19	80-120	100	()
229	50352	8.18	8.19	0- 50	24	()
226	62975	8.18	8.19	0- 59	30	()
<hr/>						
95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	203562	8.96	8.97	80-120	100	()
253	46554	8.96	8.97	0- 52	23	()
125	36987	8.96	8.96	0- 44	18	()
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	203596	8.96	8.99	80-120	100	()
253	47222	8.96	8.99	0- 52	23	()
125	37103	8.96	8.99	0- 48	18	()

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	104525	9.27	9.28	80-120	100	()
253	23990	9.27	9.28	0- 52	23	()
125	19997	9.27	9.28	0- 48	19	()

99 Indeno(1,2,3-cd)pyrene				CAS#: 193-39-5		
276	37457	10.59	10.60	80-120	100	()
138	14100	10.59	10.60	14- 74	38	()

100 Dibenzo(a,h)anthracene				CAS#: 53-70-3		
278	10081	10.60	10.61	80-120	100	()
139	3156	10.59	10.60	0- 60	31	()

101 Benzo(ghi)perylene				CAS#: 191-24-2		
276	30530	10.99	10.99	80-120	100	()
138	11286	10.99	10.99	9- 69	37	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1320.d
Lab Smp Id: 248197007 Client Smp ID: RE36-10-7426
Inj Date : 13-MAR-2010 17:15
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197007|960459|4|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 20
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	4.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.11000	weight of sample
M	12.45700	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.475	3116763	40.000
* 29 Naphthalene-d8	4.326	4043535	40.000
* 46 Acenaphthene-d10	5.566	4499623	40.000
* 67 Phenanthrene-d10	6.588	4442129	40.000
* 91 Chrysene-d12	8.166	4187750	40.000
* 98 Perylene-d12	9.327	1596345	40.000

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
1R-.alpha.-Pinene					CAS #: 7785-70-8		
3.047	1030650	13.2271768	2010	98	NIST05.L	15188	10
Camphene					CAS #: 79-92-5		
3.149	507344	6.51116564	988	97	NIST05.L	15152	10
.beta.-Myrcene					CAS #: 123-35-3		
3.288	1037348	13.3131385	2020	91	NIST05.L	15177	10
Bicyclo[2.2.1]heptane-2,5-dione, 1,7,7-t					CAS #: 4230-32-4		
4.657	527698	5.22016182	792	91	NIST05.L	33284	29
Unknown					CAS #:		
5.240	647417	5.75530312	873	0		0	46
Unknown					CAS #:		
6.893	747056	6.72700498	1020	0		0	67
Unknown					CAS #:		
6.978	849463	7.64915490	1160	0		0	67
Unknown					CAS #:		
8.005	676846	6.46500572	981	0		0	91 (L)
Chrysene, 2-methyl-					CAS #: 3351-32-4		
8.428	837673	8.00117145	1210	94	NIST05.L	86904	91
Unknown					CAS #:		
10.674	486598	12.1927885	1850	0		0	98
.beta.-Sitosterol					CAS #: 83-46-5		
11.059	812746	20.3651636	3090	93	NIST05.L	174399	98
Unknown					CAS #:		
11.268	358255	8.97687652	1360	0		0	98
Unknown					CAS #:		
11.396	1816282	45.5109938	6910	0		0	98
Unknown					CAS #:		
11.487	436874	10.9468507	1660	0		0	98
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-					CAS #: 469-38-5		
11.691	707658	17.7319636	2690	83	NIST05.L	176585	98

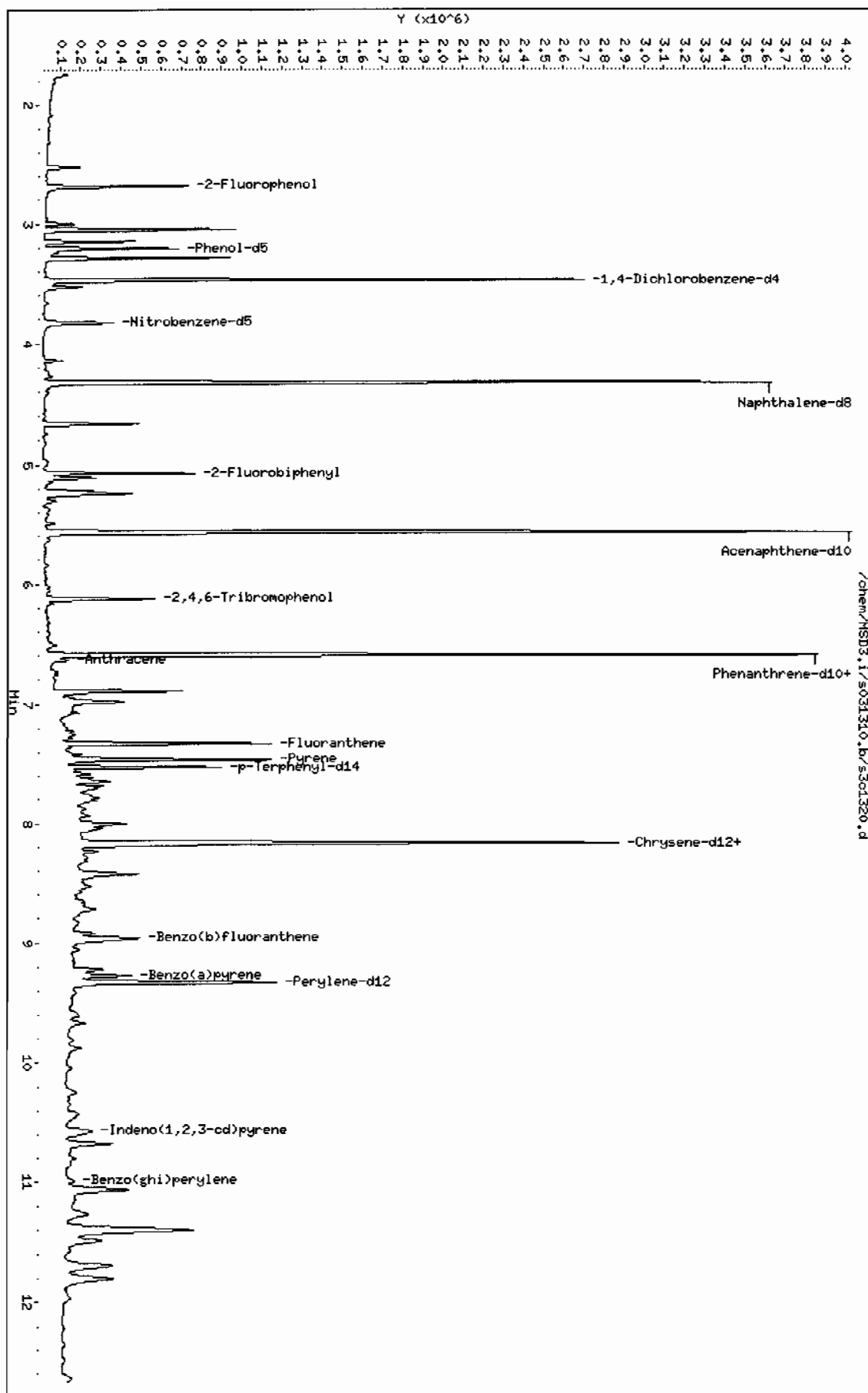
RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	==	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
11.798	734084	18.3941215	2790	0		0	98

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/HSD3.i/s031310.b/s3c1320.d
 Date : 13-MAR-2010 17:15
 Client ID: RE36-10-7426
 Sample Info: 12481970071960459141SWH111LNL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD3.i
 Operator: JLDL
 Column diameter: 0.20



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF111LANL

Volume Injected (uL): 0.5

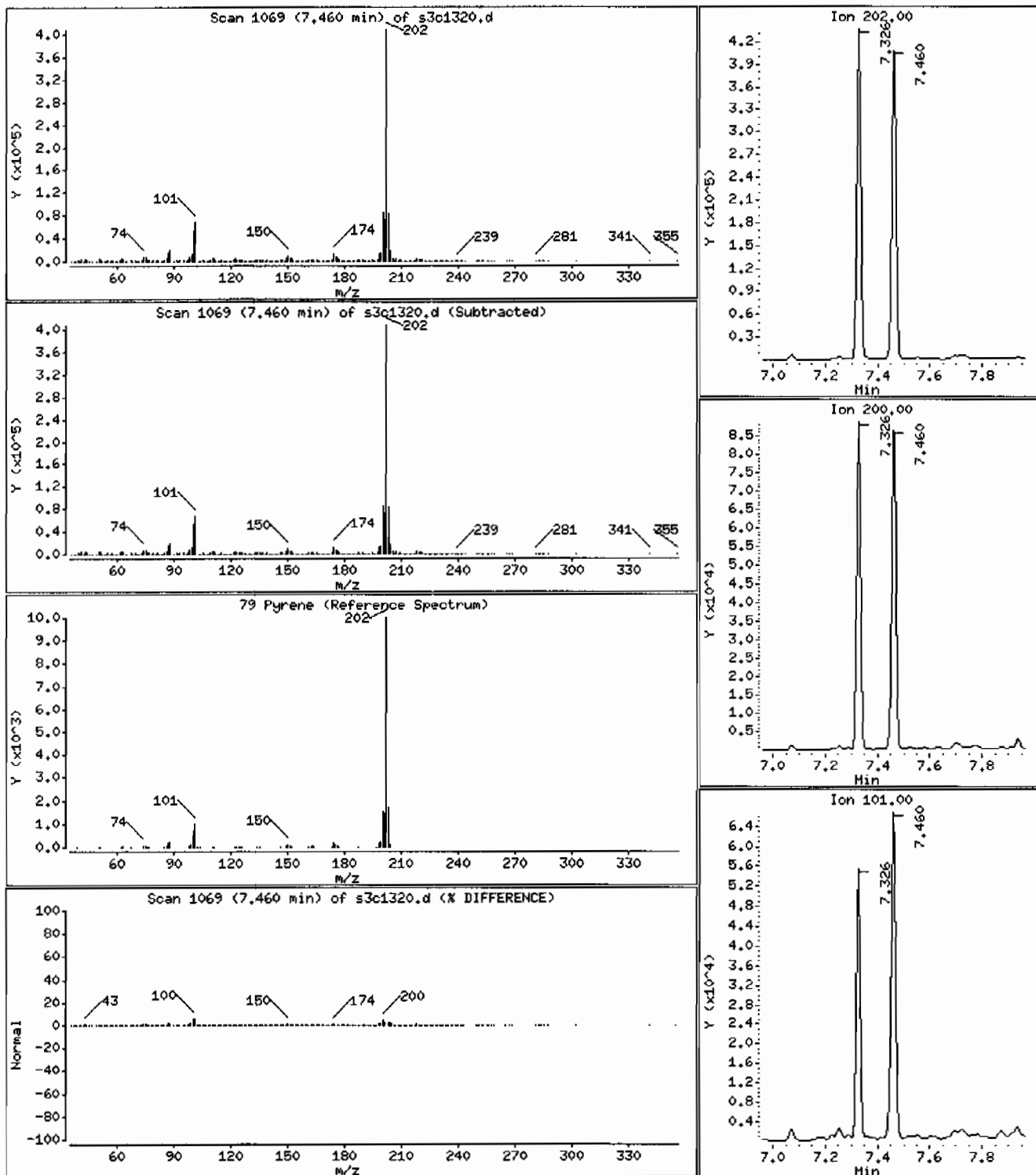
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 2710 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVNF11ILANL

Volume Injected (uL): 0.5

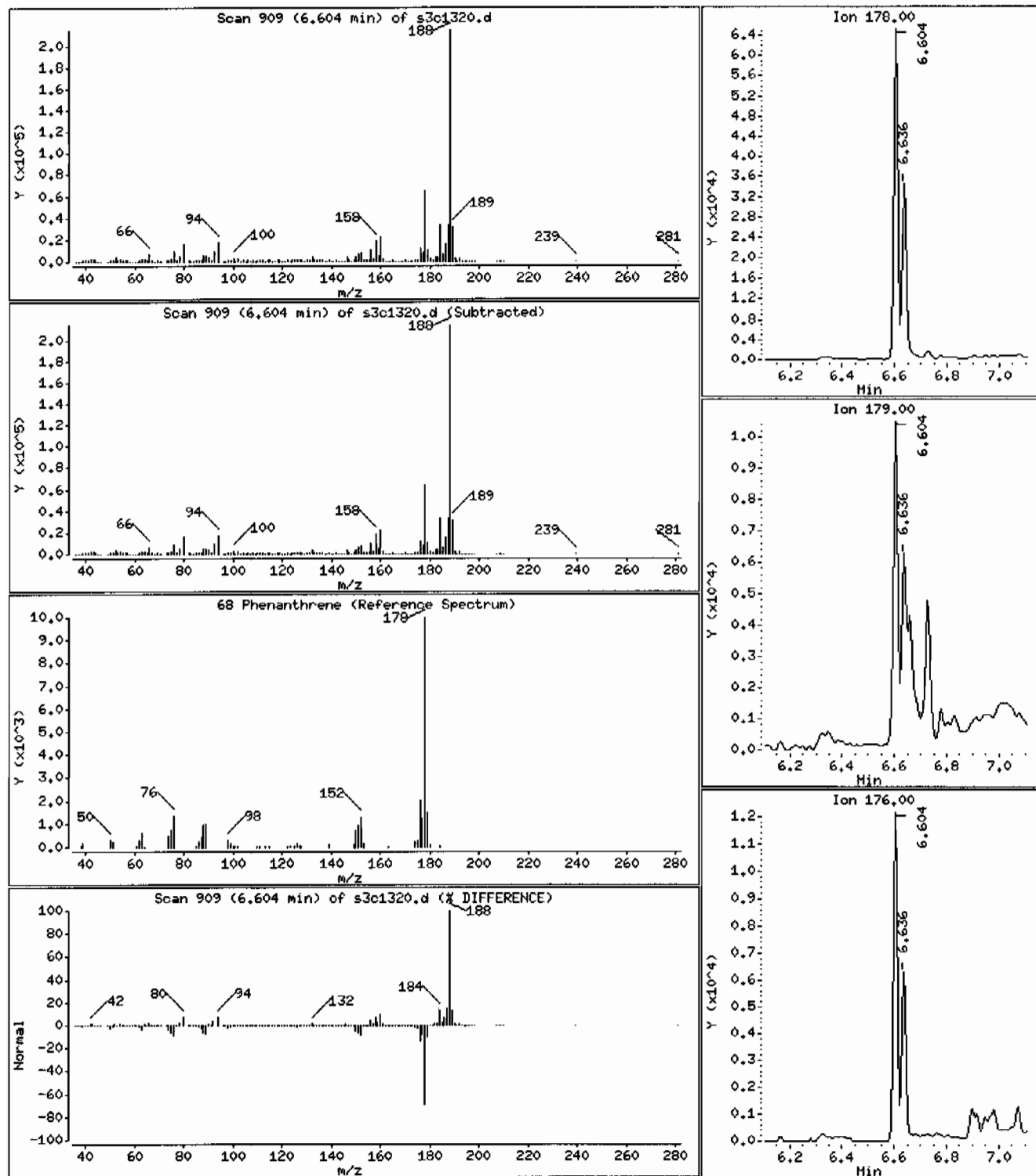
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 278 ug/Kg



Data File: /chem/MSD3.i/s031310.b/s3c1320.d

Page 4

Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: I248197007I960459I4ISVMF11ILANL

Volume Injected (uL): 0.5

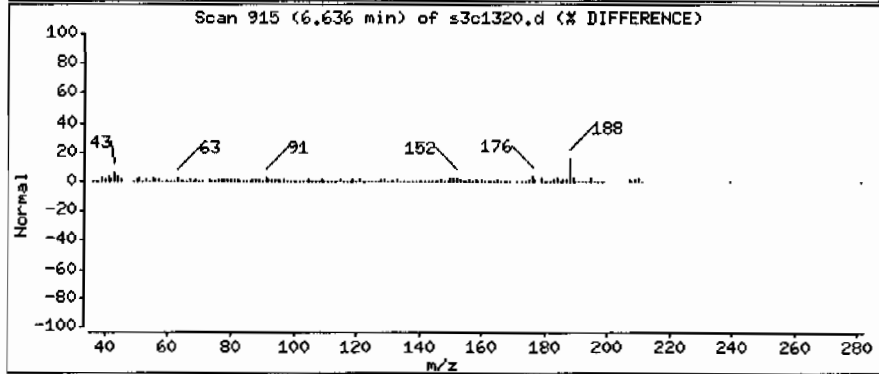
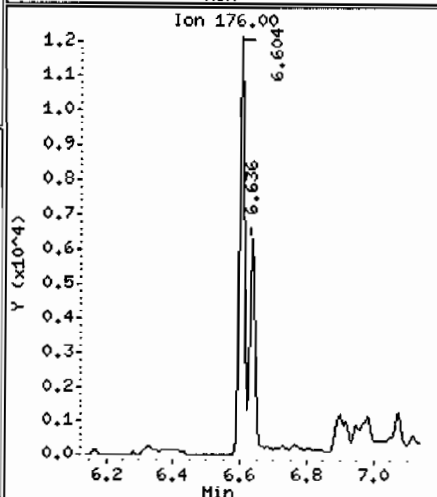
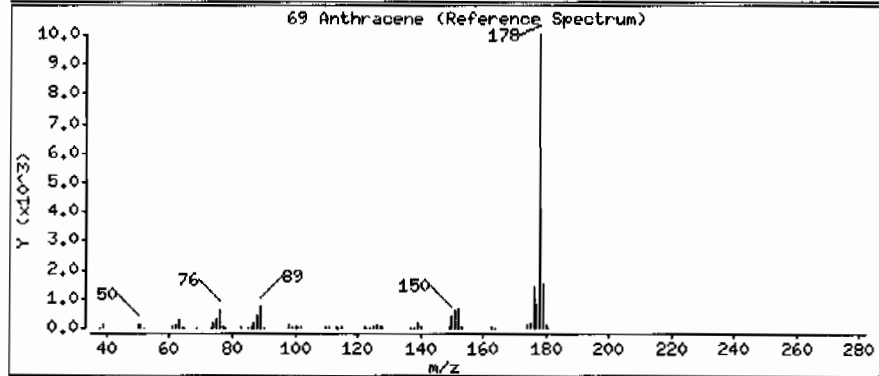
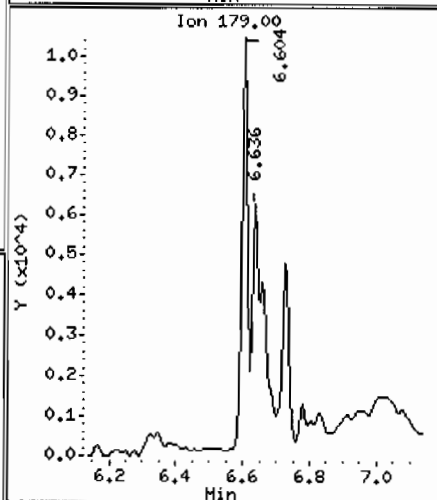
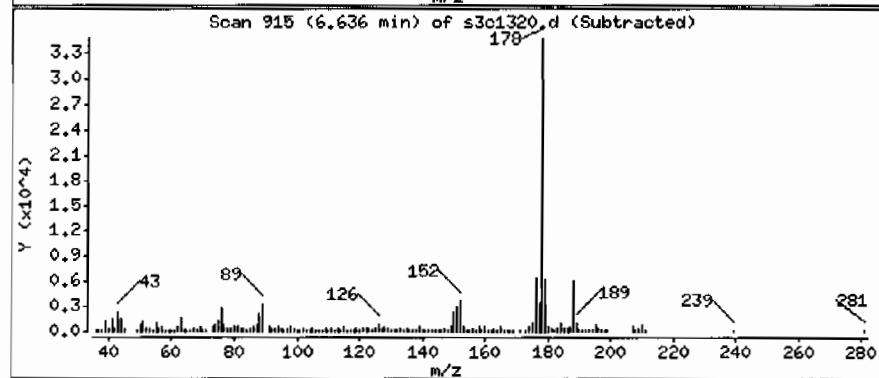
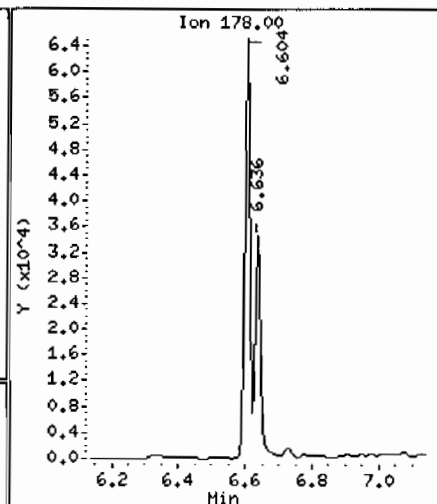
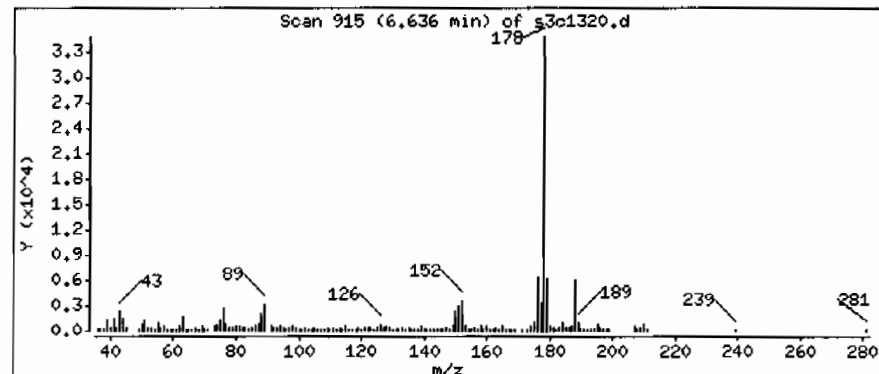
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 171 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: HSD3.i

Sample Info: 12481970071960459141SVHF11ILANL

Volume Injected (uL): 0.5

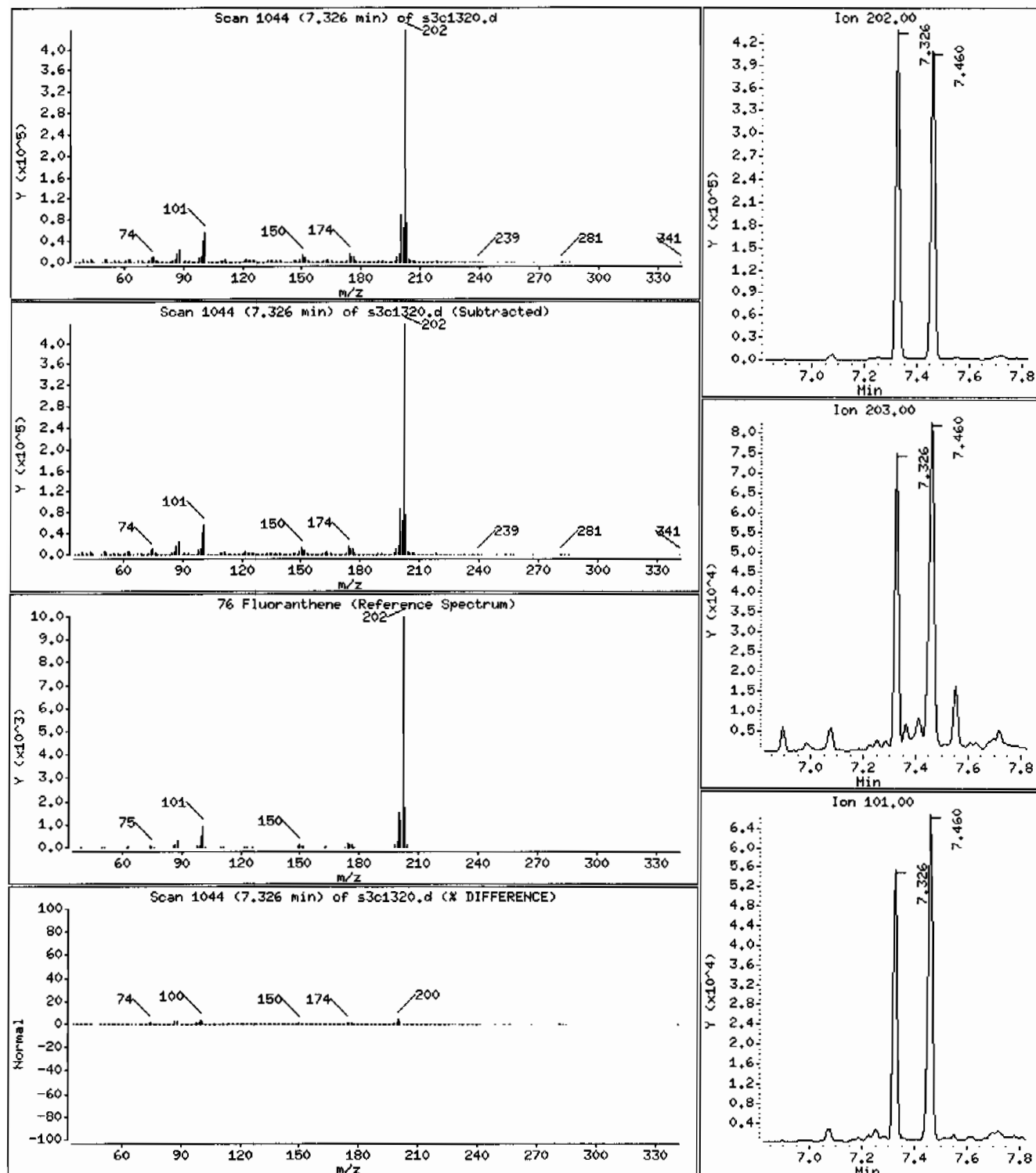
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 2020 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF11ILANL

Volume Injected (uL): 0.5

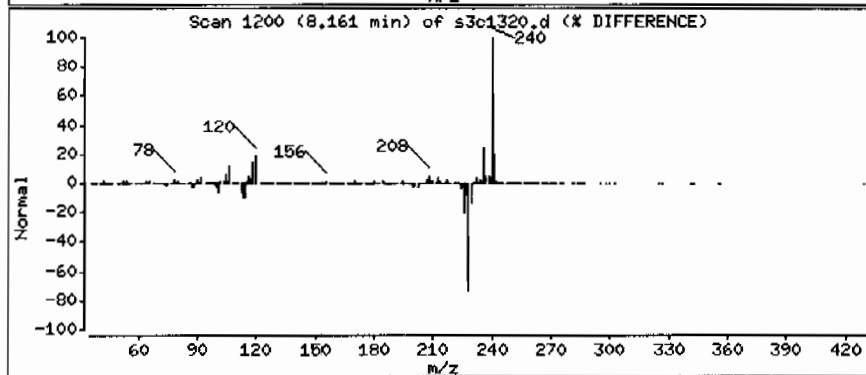
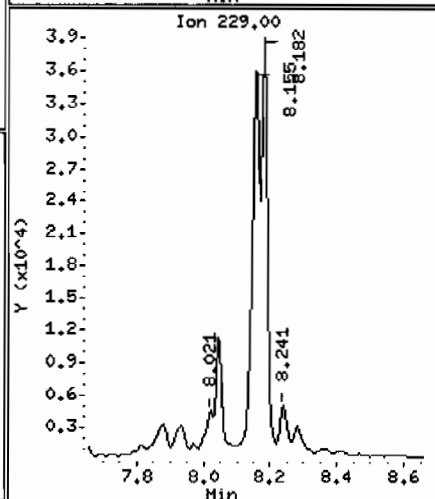
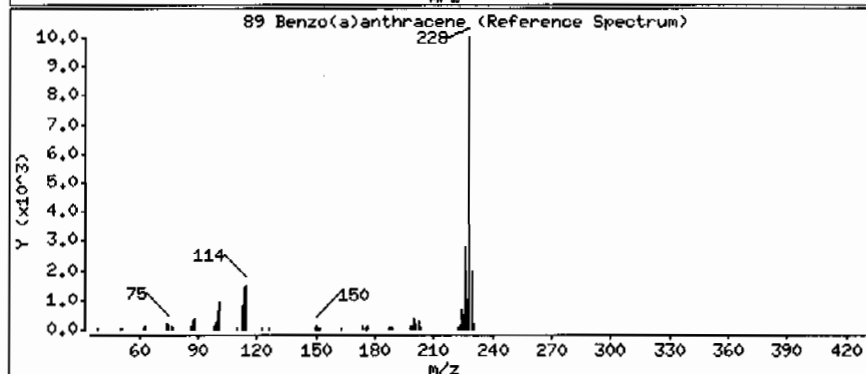
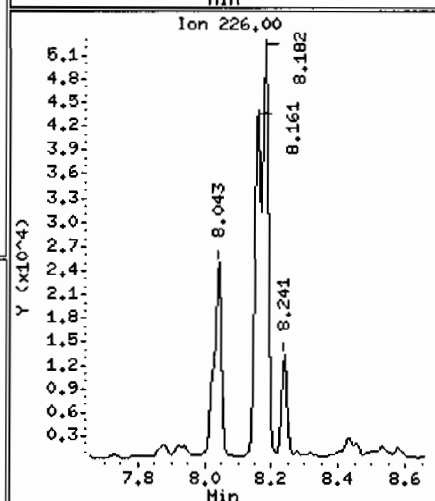
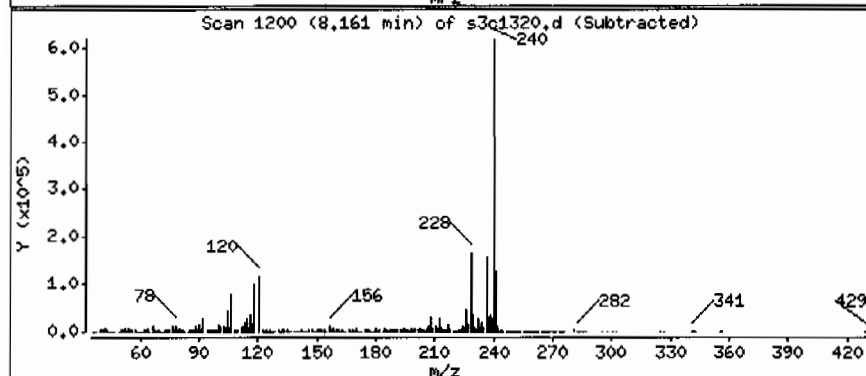
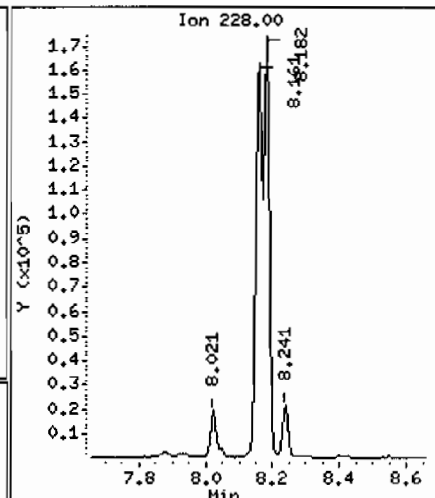
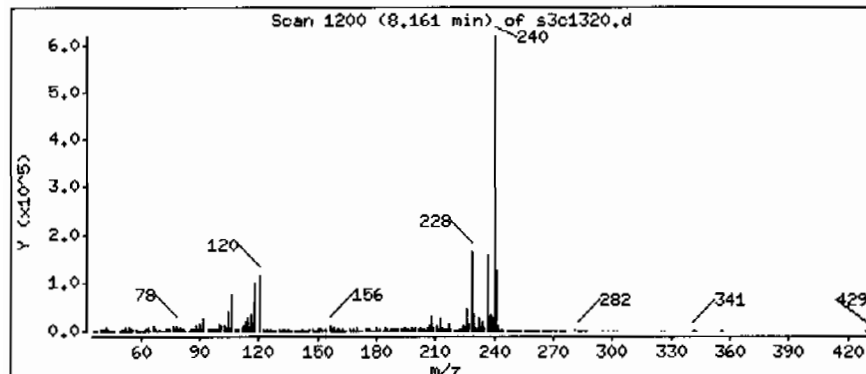
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 1610 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF11ILANL

Volume Injected (uL): 0.5

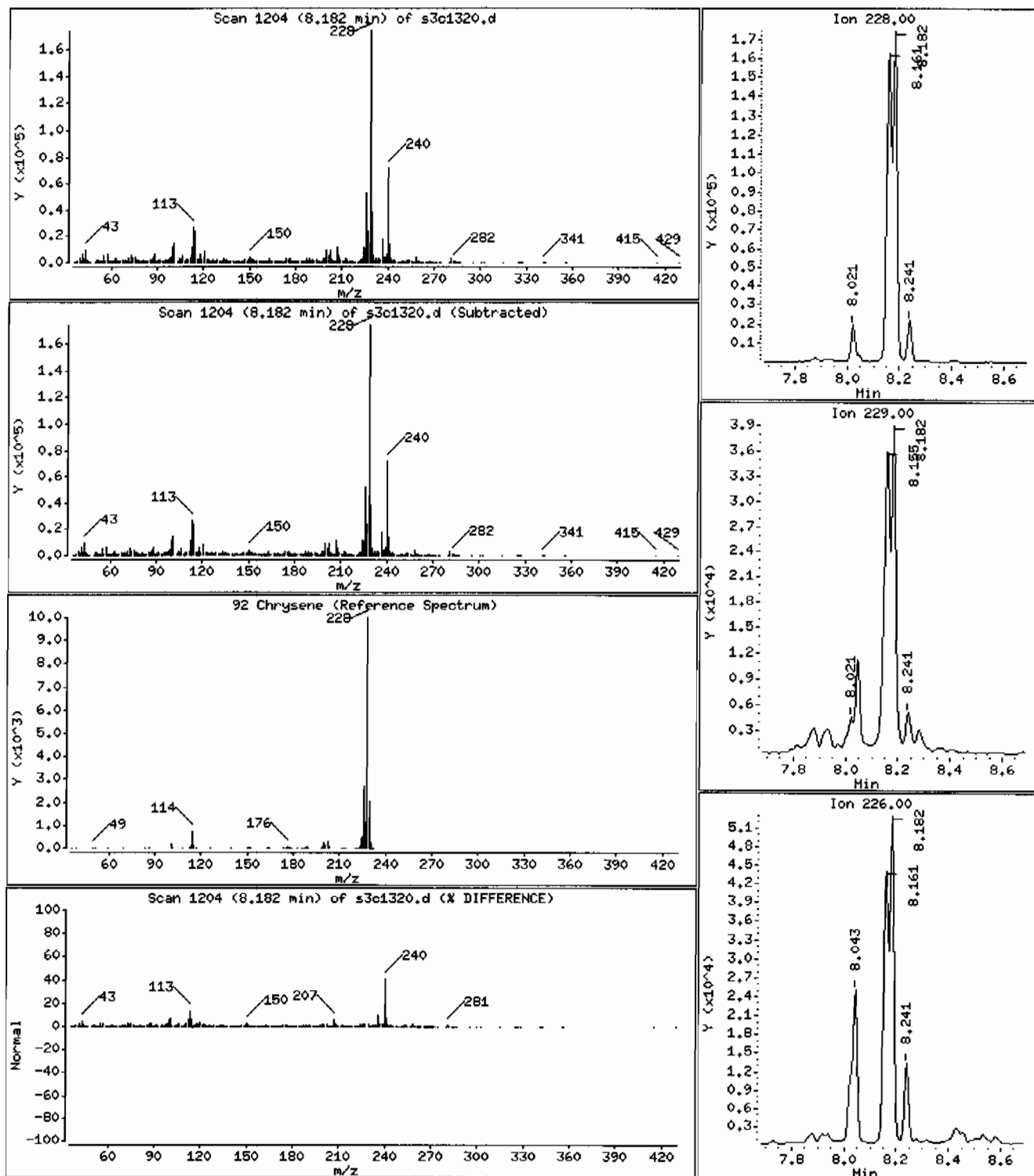
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 1480 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 1248197007196045914ISVHF11ILANL

Volume Injected (uL): 0.5

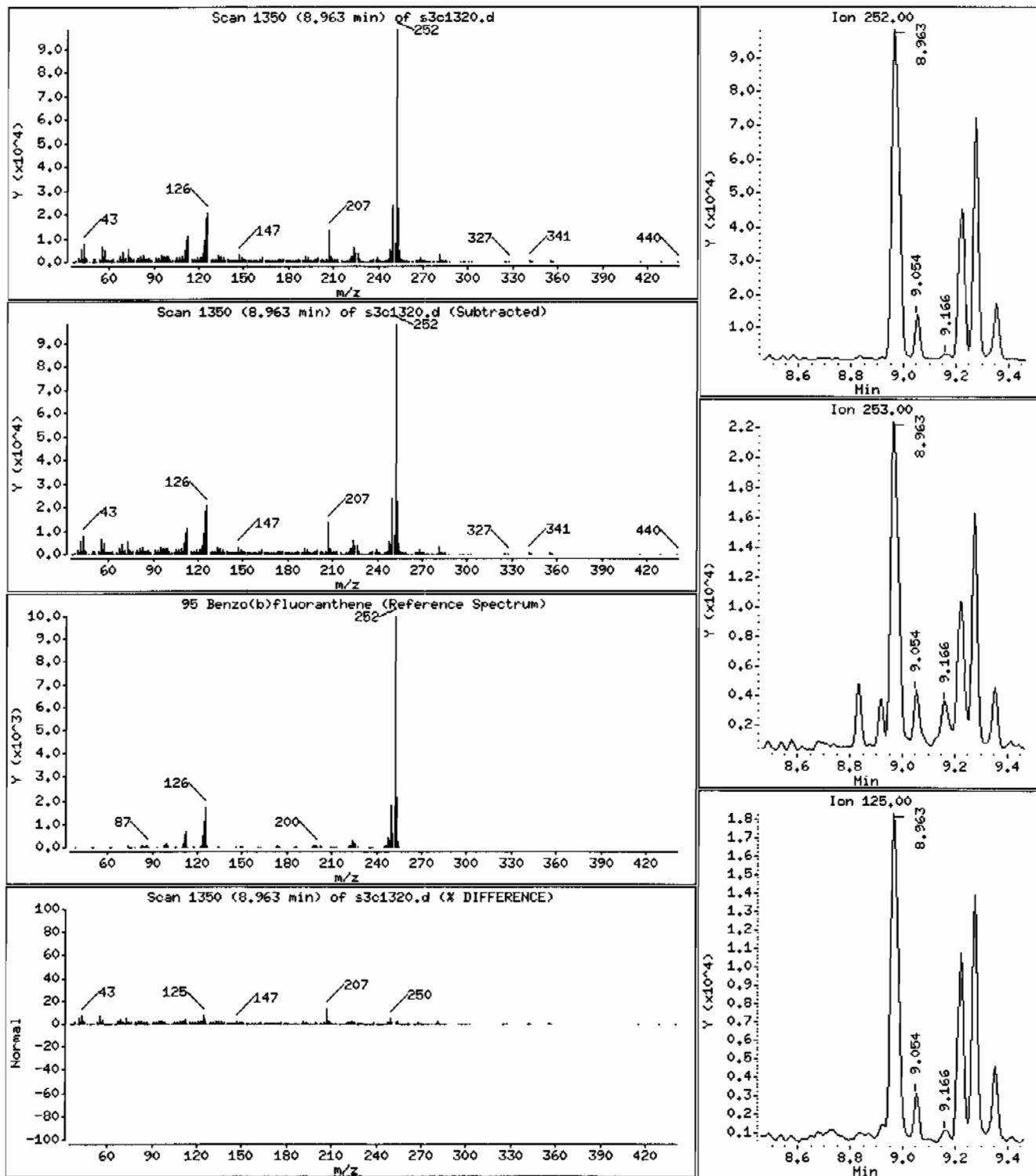
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 2530 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 1248197007196045914ISVHF11/LANL

Volume Injected (UL): 0.5

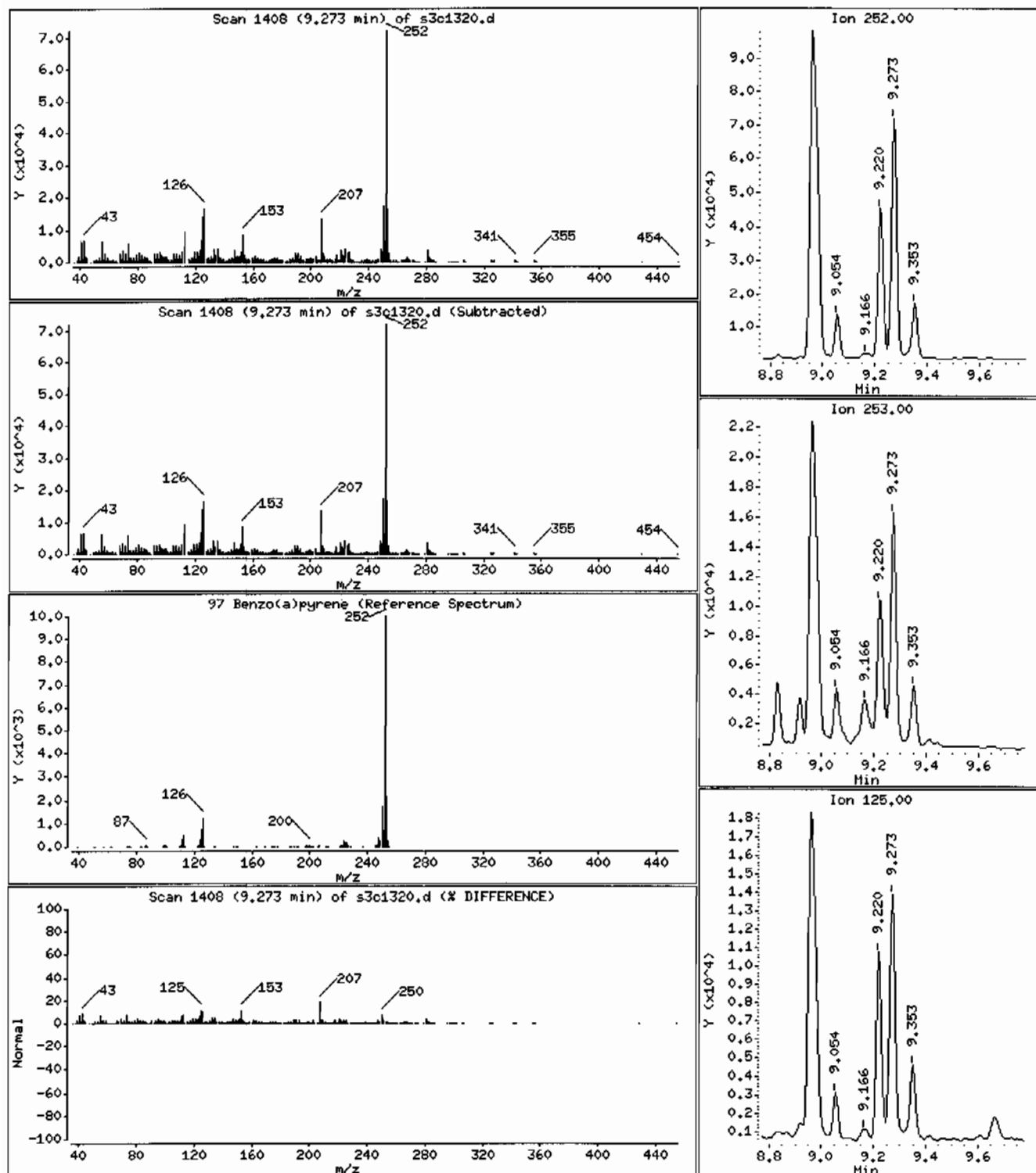
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 1510 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF11ILANL

Volume Injected (uL): 0.5

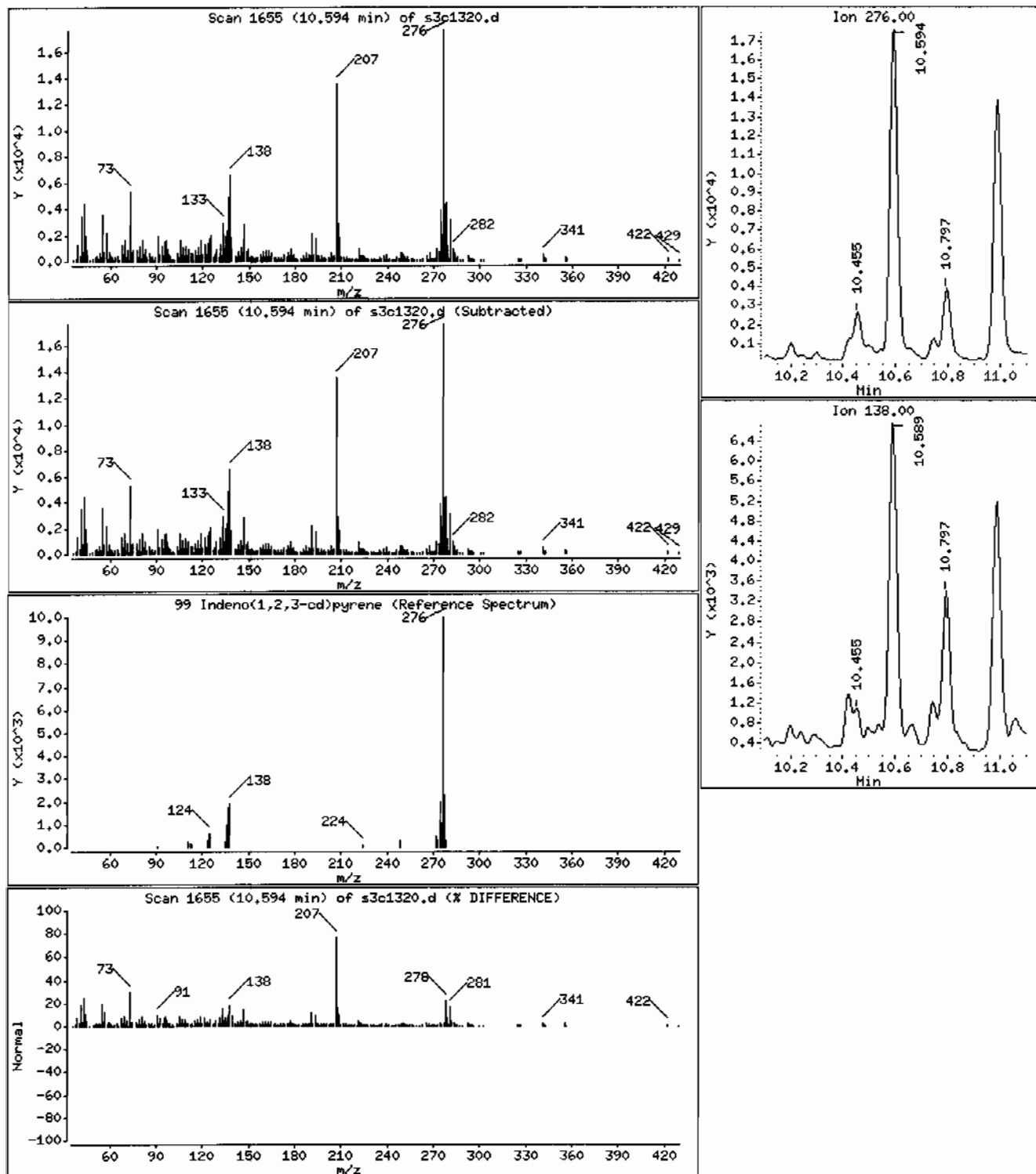
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 628 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF11ILANL

Volume Injected (uL): 0.5

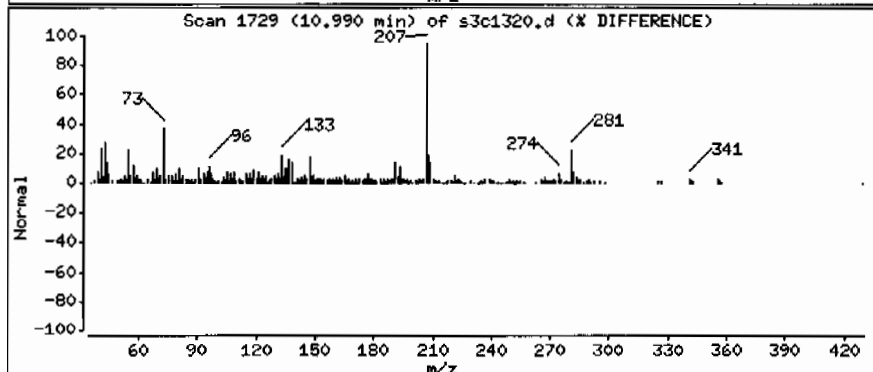
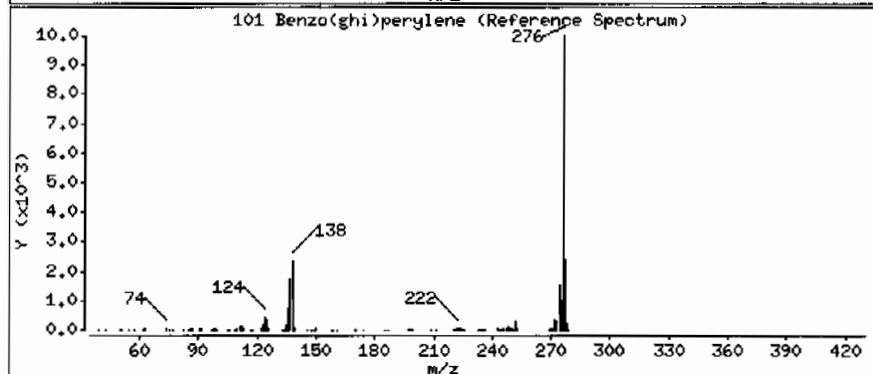
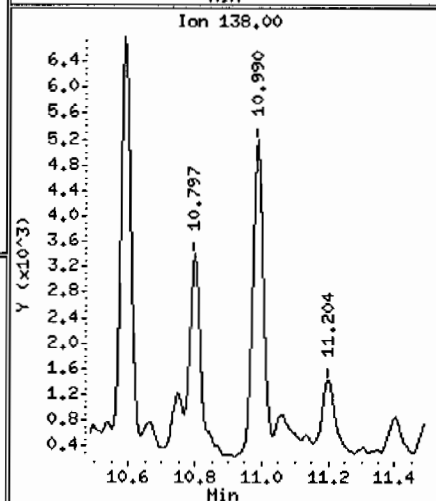
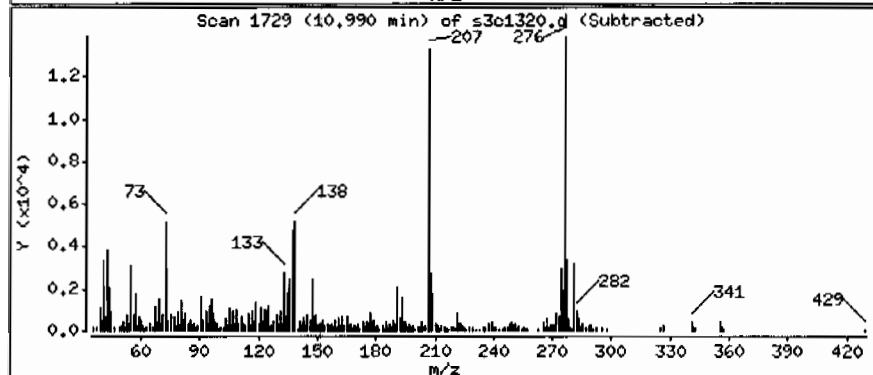
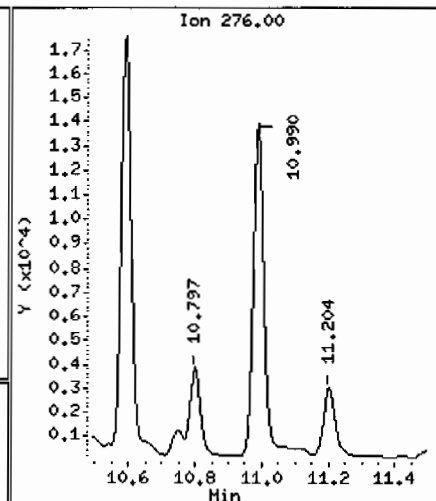
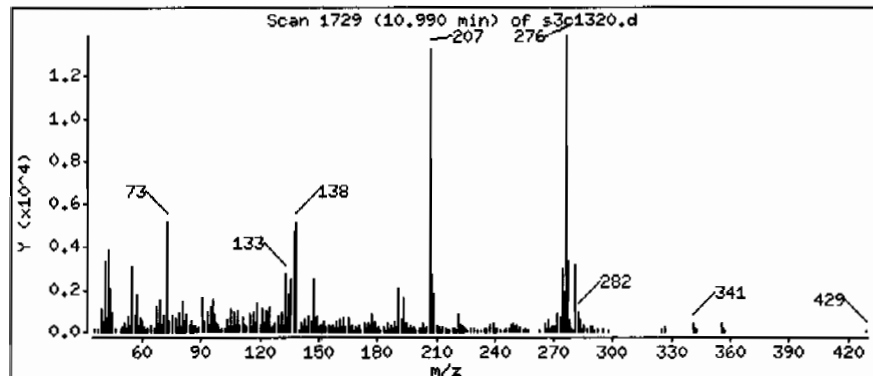
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 623 ug/Kg



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF111LANL

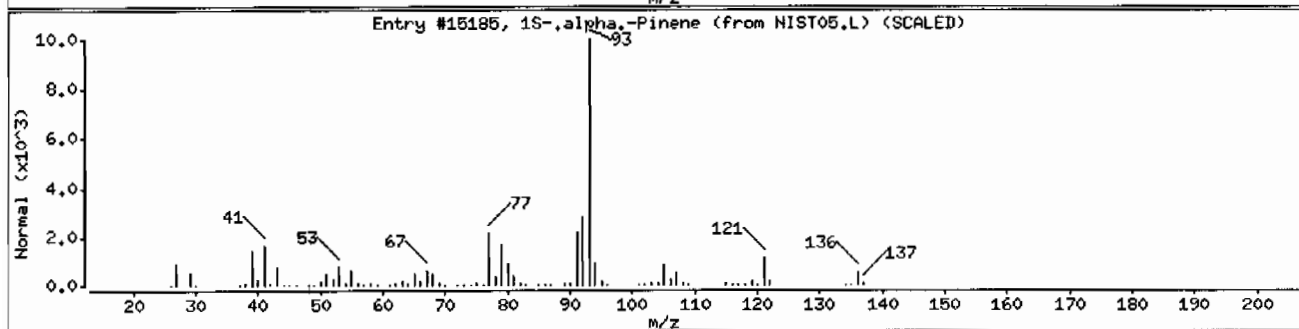
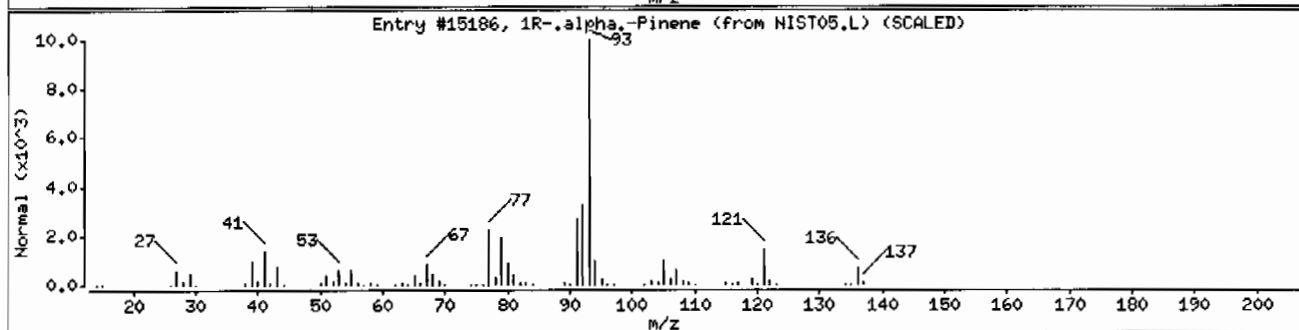
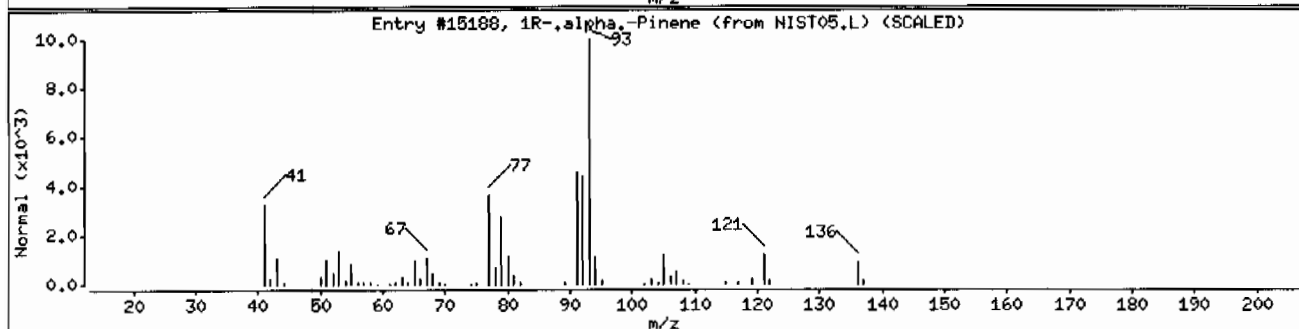
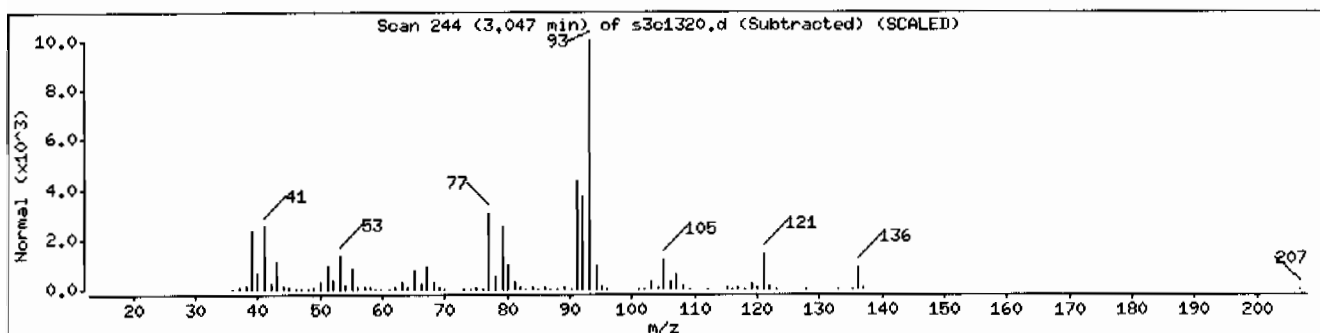
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15188	98	C10H16	136
1R-.alpha.-Pinene	7785-70-8	NIST05.L	15186	97	C10H16	136
1S-.alpha.-Pinene	7785-26-4	NIST05.L	15185	97	C10H16	136



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF11ILANL

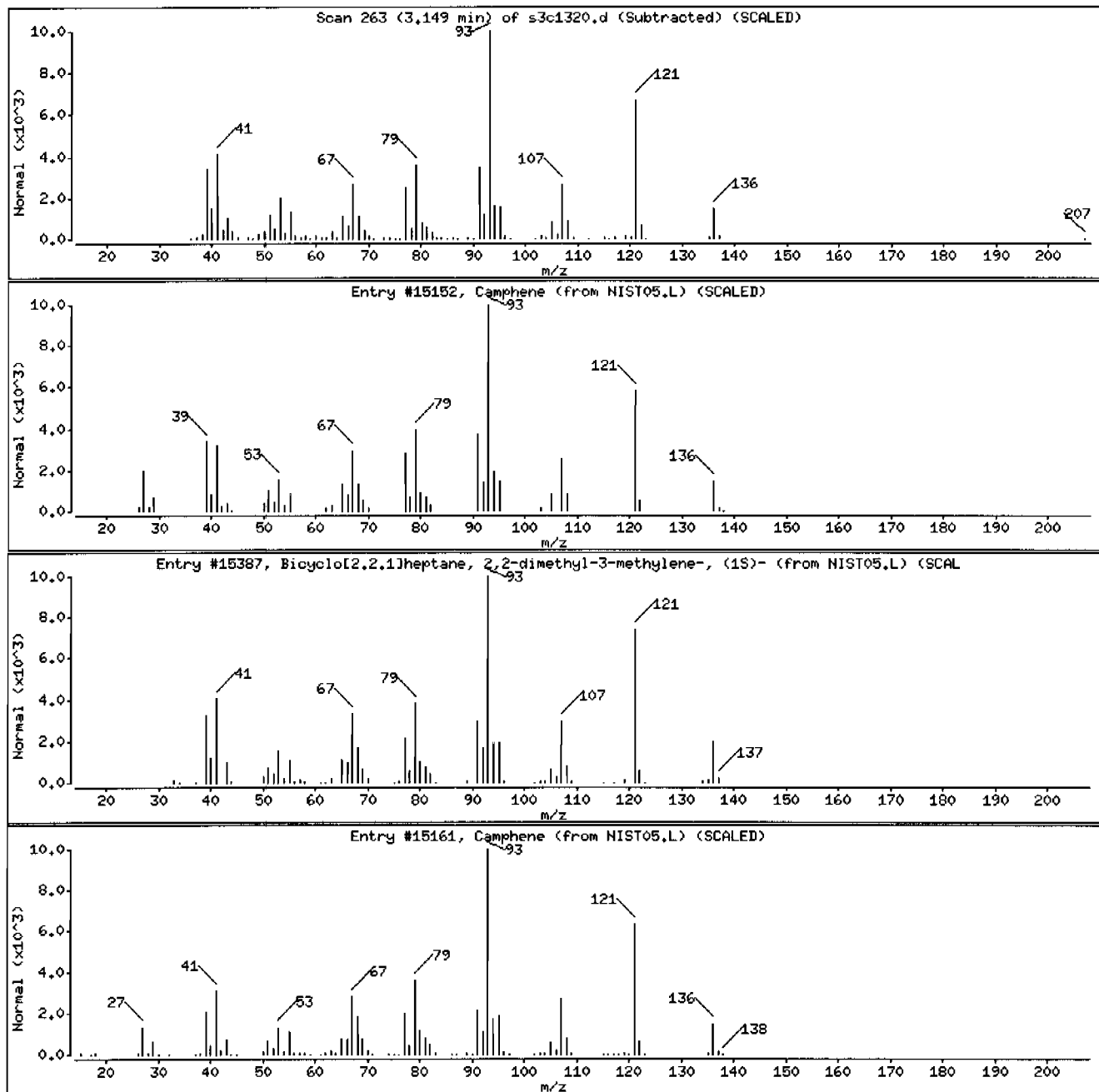
Volume Injected (uL): 0.5

Operator: JLD1

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
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-04-7	NIST05.L	15387	97	C10H16	136
Camphene	79-92-5	NIST05.L	15161	93	C10H16	136



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 1248197007196045914ISVMFI11LANL

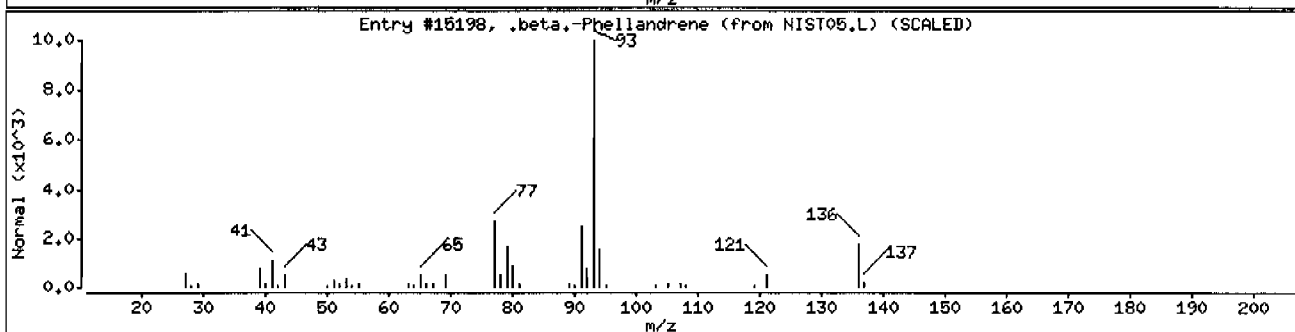
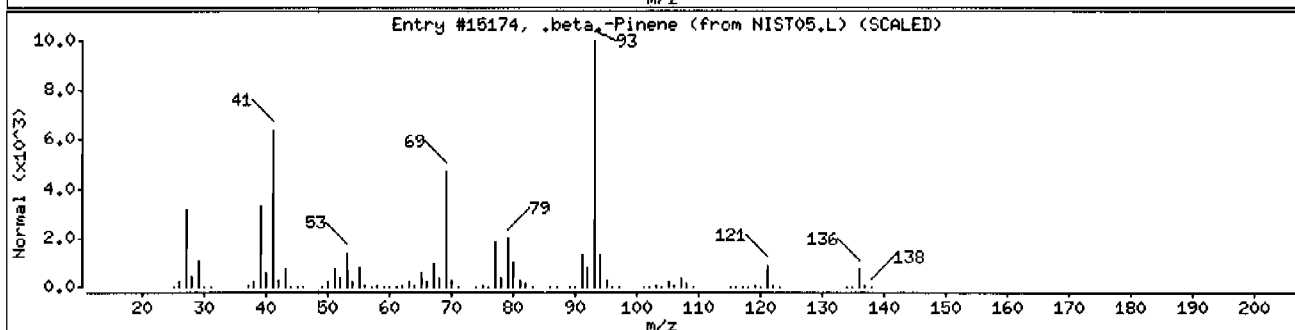
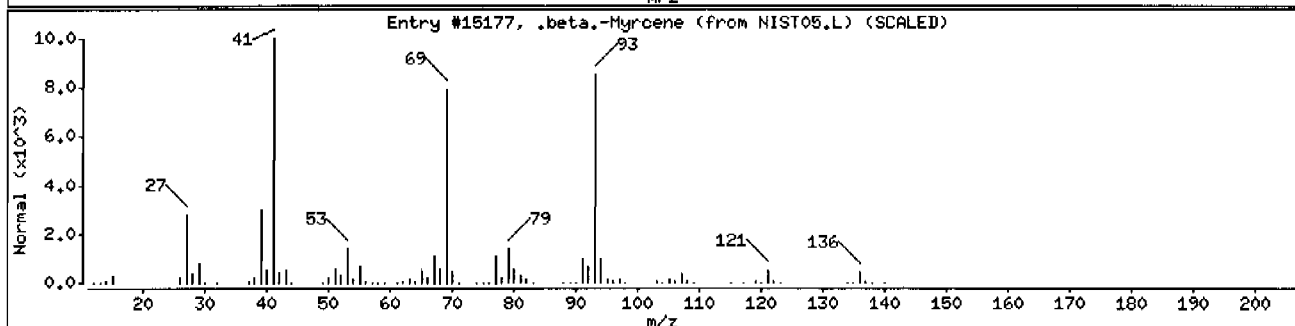
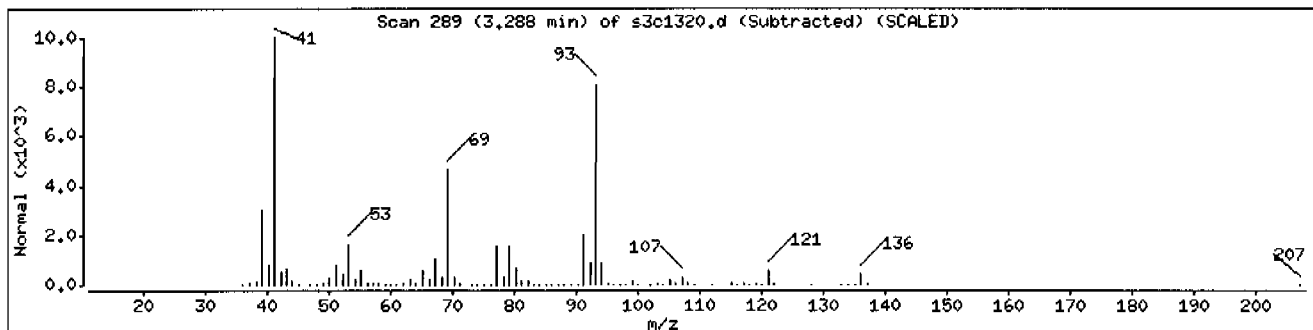
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.beta.-Myrcene	123-35-3	NIST05.L	15177	91	C10H16	136
.beta.-Pinene	127-91-3	NIST05.L	15174	91	C10H16	136
.beta.-Phellandrene	555-10-2	NIST05.L	15198	83	C10H16	136



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF111LANL

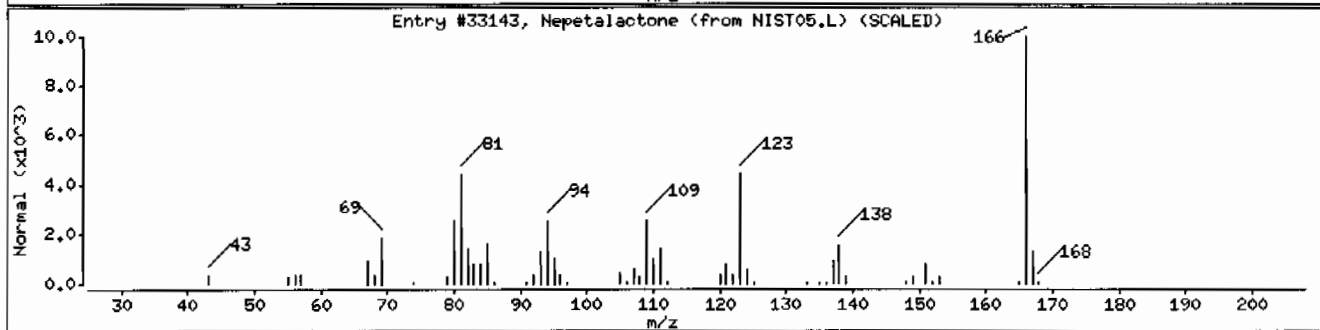
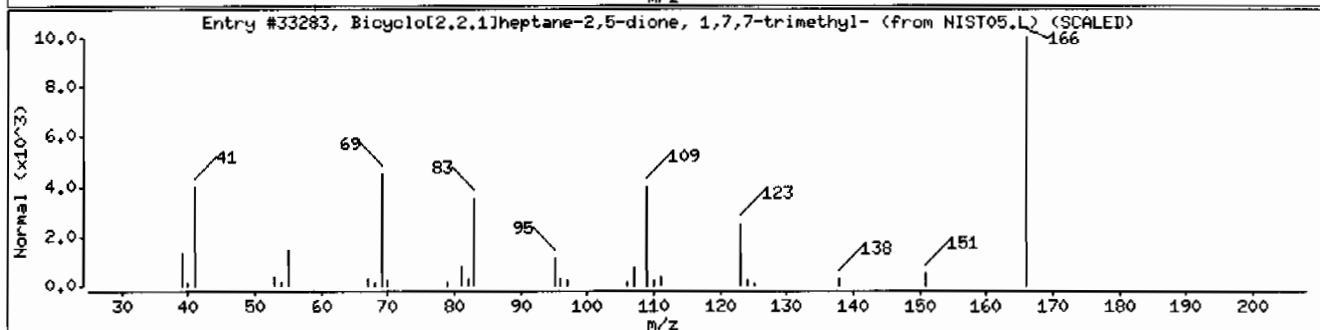
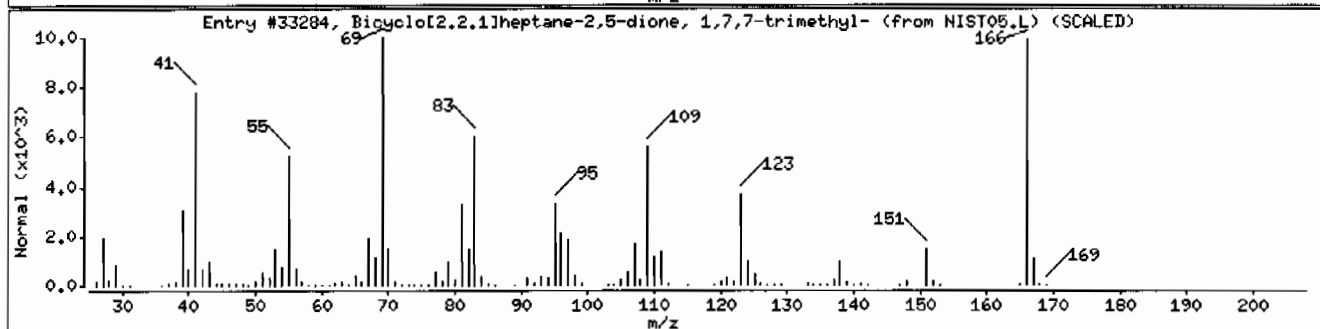
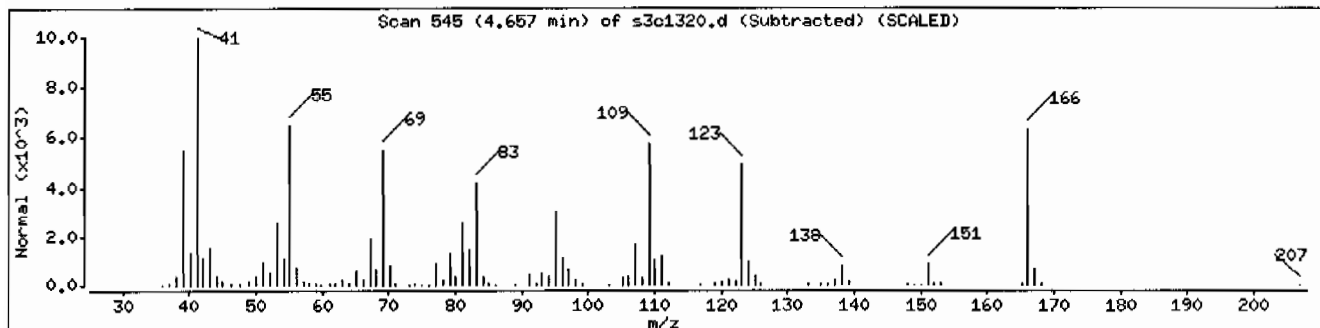
Volume Injected (uL): 0.5

Operator: JLD1

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]heptane-2,5-dione, 1,7,7-t	4230-32-4	NIST05.L	33284	91	C10H14O2	166
Bicyclo[2.2.1]heptane-2,5-dione, 1,7,7-t	4230-32-4	NIST05.L	33283	59	C10H14O2	166
Nepetalactone	490-10-8	NIST05.L	33143	46	C10H14O2	166



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3,i

Sample Info: I2481970071960459141SVMF11ILANL

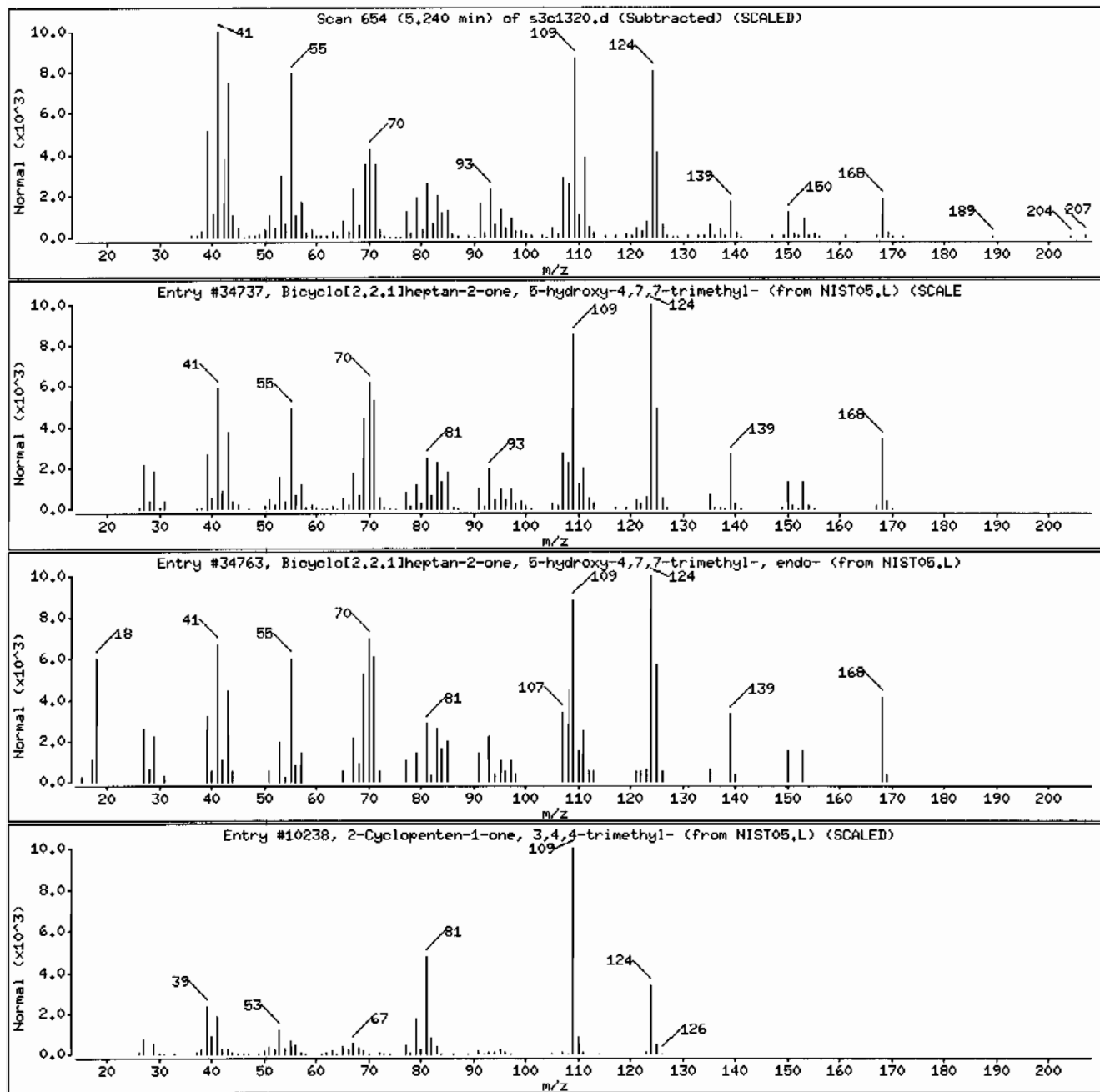
Volume Injected (uL): 0.5

Operator: JLD1

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-one, 5-hydroxy-4,	39850-78-7	NIST05.L	34737	64	C10H16O2	168
Bicyclo[2.2.1]heptan-2-one, 5-hydroxy-4,	59169-18-5	NIST05.L	34763	55	C10H16O2	168
2-Cyclopenten-1-one, 3,4,4-trimethyl-	30434-65-2	NIST05.L	10238	41	C8H12O	124



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF111LANL

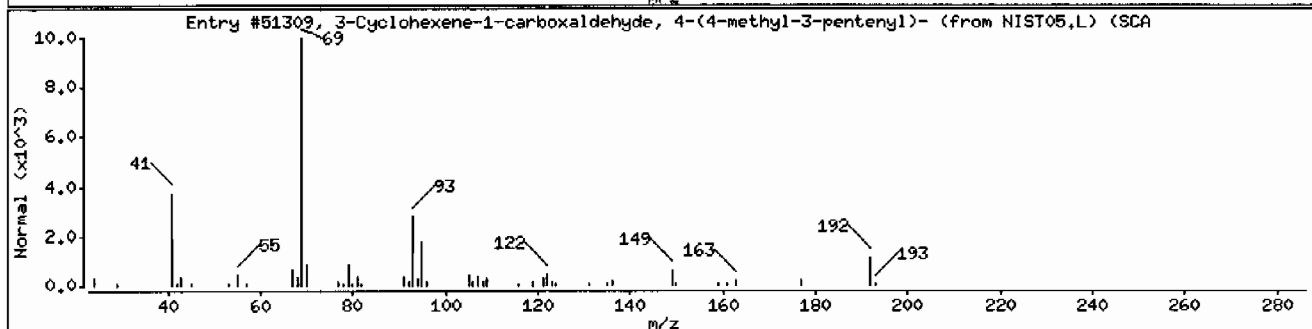
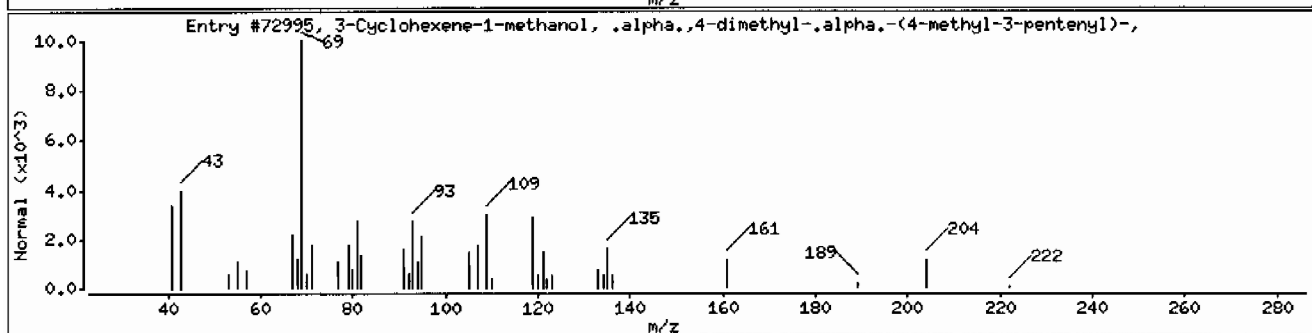
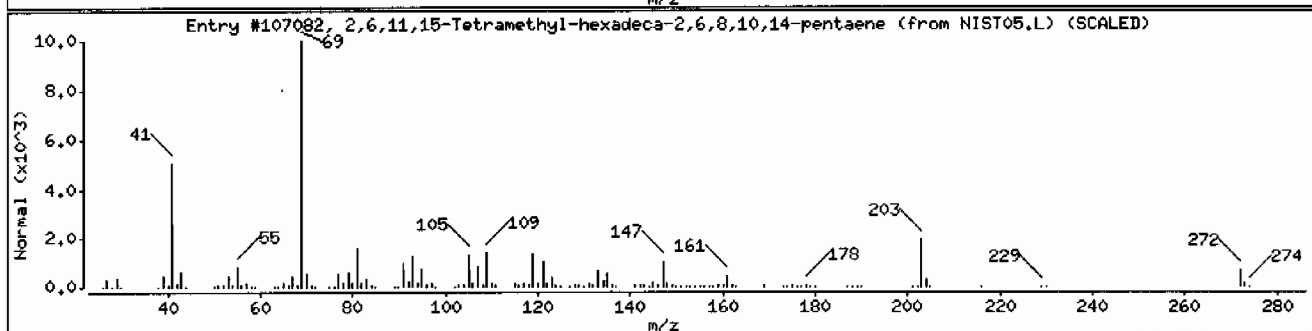
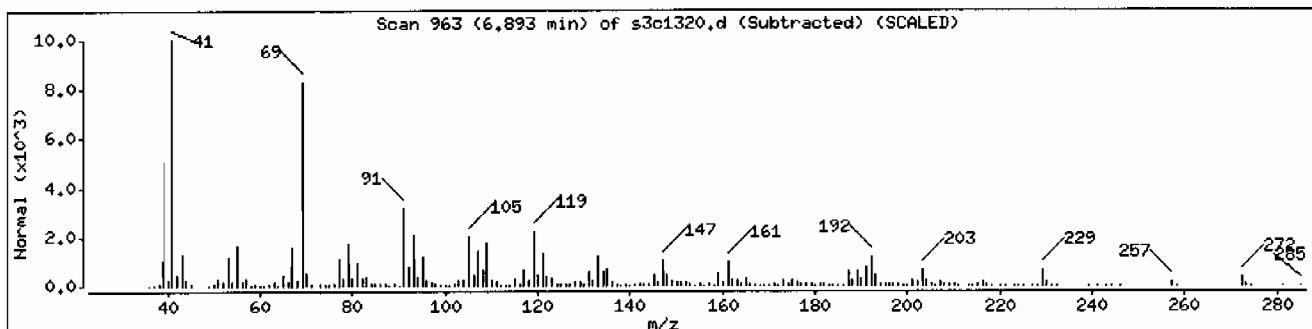
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,6,11,15-Tetramethyl-hexadeca-2,6,8,10,	38259-79-9	NIST05.L	107082	68	C20H32	272
3-Cyclohexene-1-methanol, .alpha.,4-dime	23178-88-3	NIST05.L	72995	64	C15H26O	222
3-Cyclohexene-1-carboxaldehyde, 4-(4-met	37677-14-8	NIST05.L	51309	46	C13H20O	192



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: HSD3.i

Sample Info: 12481970071960459141SVHF111LANL

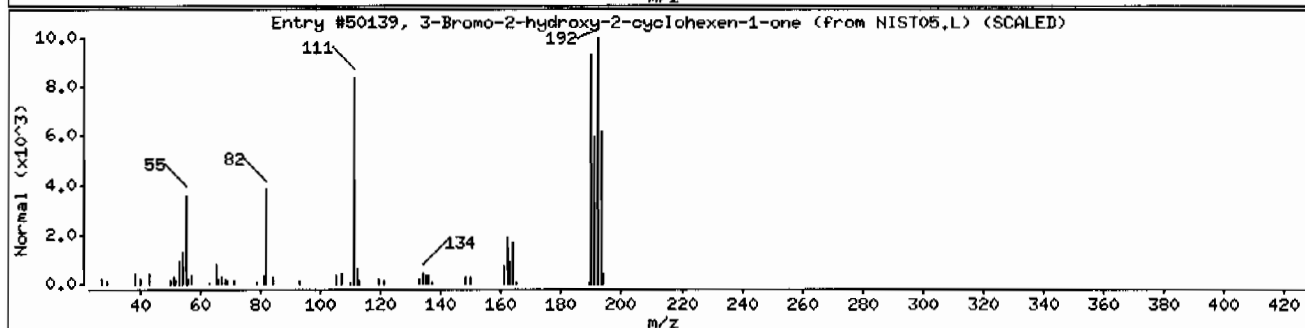
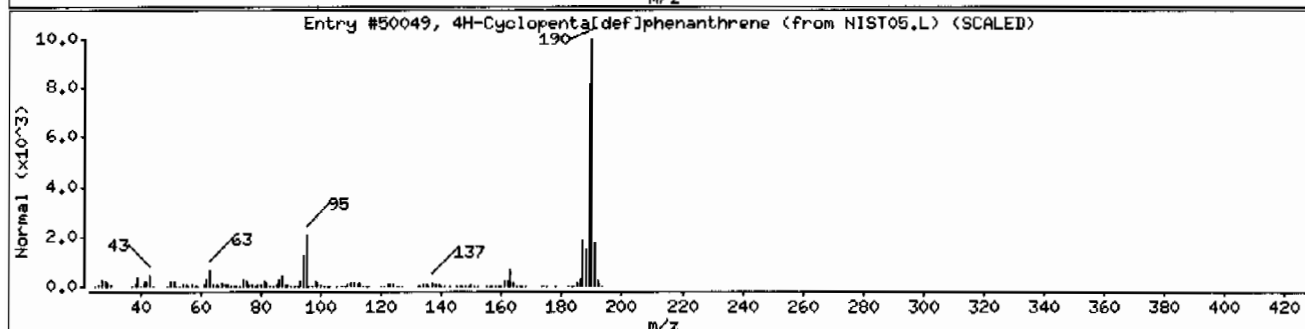
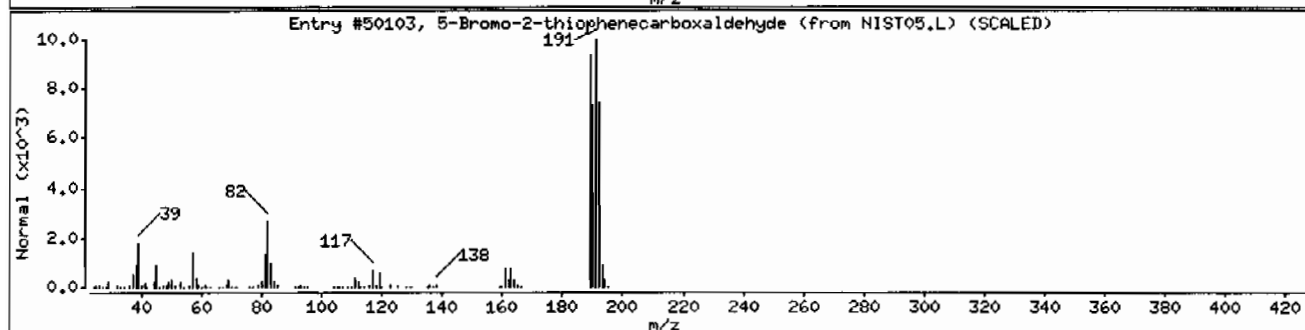
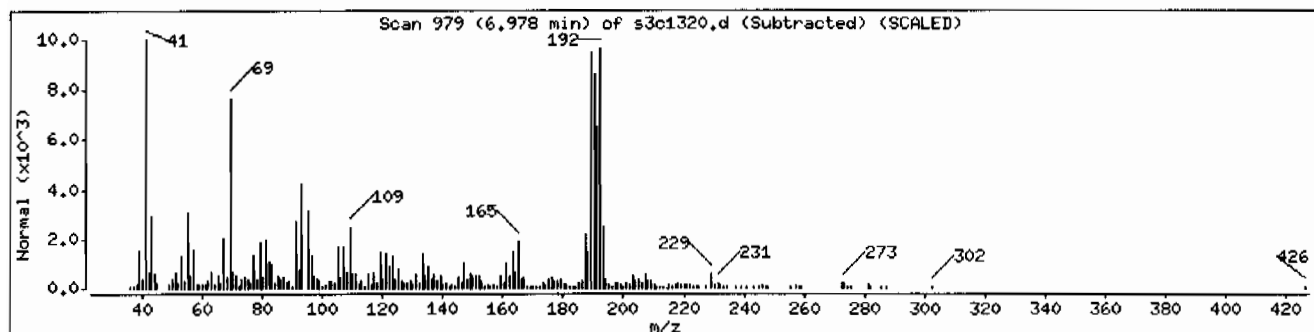
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
5-Bromo-2-thiophenecarboxaldehyde	4701-17-1	NIST05.L	50103	55	C5H3BrOS	190
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50049	42	C15H10	190
3-Bromo-2-hydroxy-2-cyclohexen-1-one	10324-65-9	NIST05.L	50139	41	C6H7BrO2	190



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF11ILANL

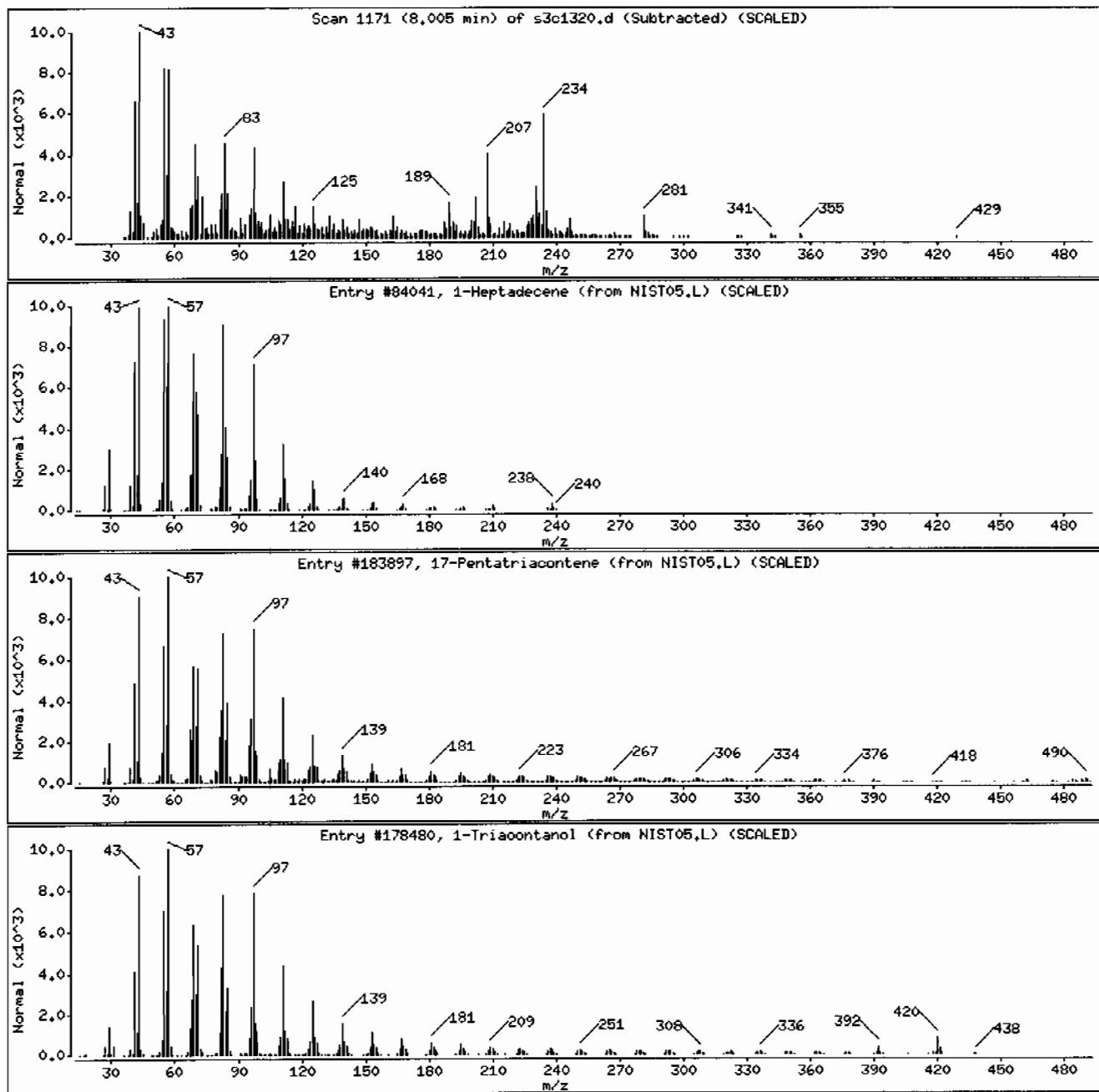
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Heptadecene	6765-39-5	NIST05.L	84041	42	C17H34	238
17-Pentatriacontene	6971-40-0	NIST05.L	183897	25	C35H70	491
1-Triacontanol	593-50-0	NIST05.L	178480	25	C30H62O	438



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF111LANL

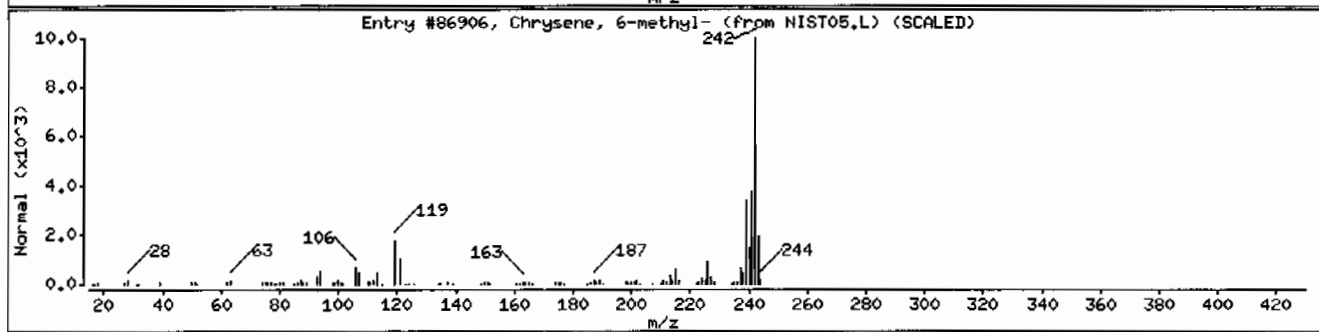
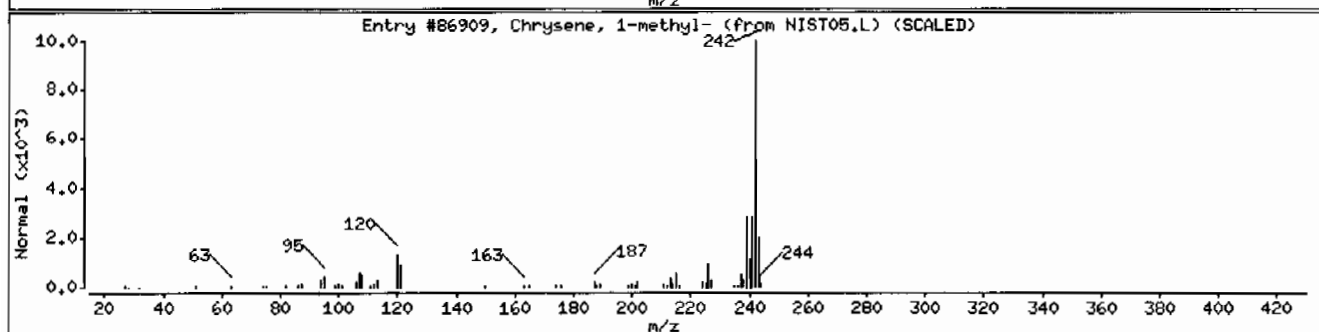
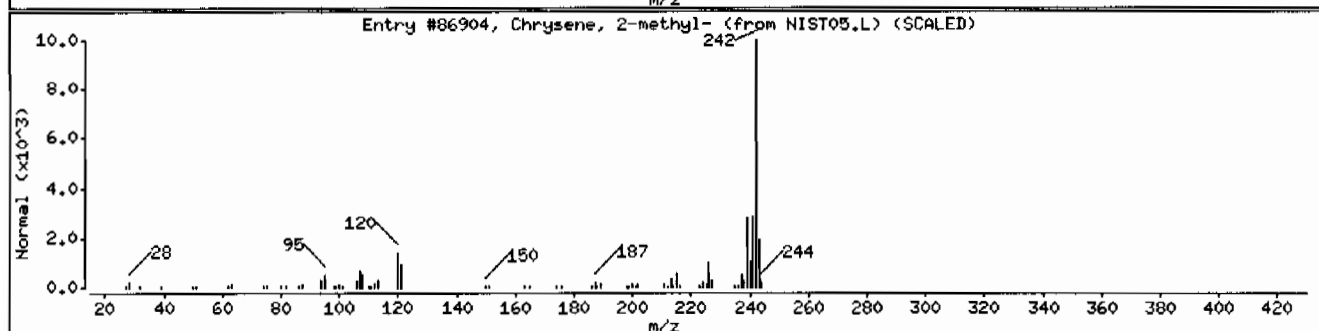
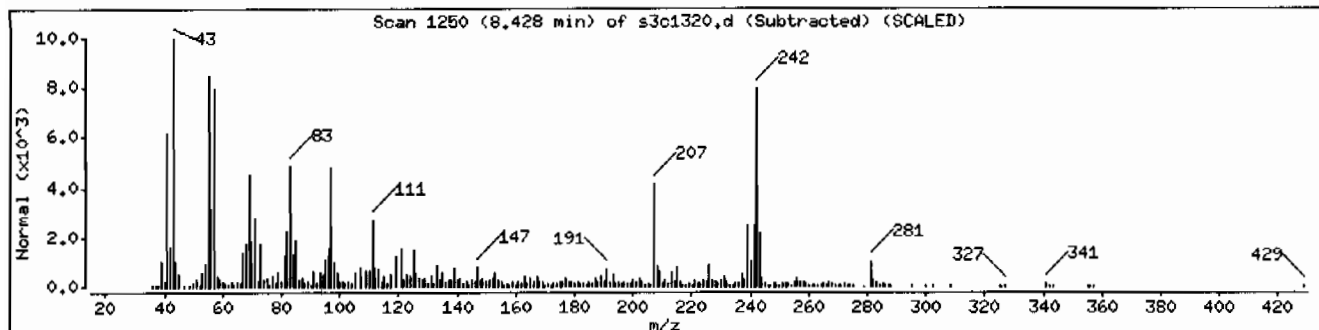
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chrysene, 2-methyl-	3351-32-4	NIST05.L	86904	94	C19H14	242
Chrysene, 1-methyl-	3351-28-8	NIST05.L	86909	89	C19H14	242
Chrysene, 6-methyl-	1705-85-7	NIST05.L	86906	81	C19H14	242



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: HSD3.i

Sample Info: I2481970071960459141SVHF11ILANL

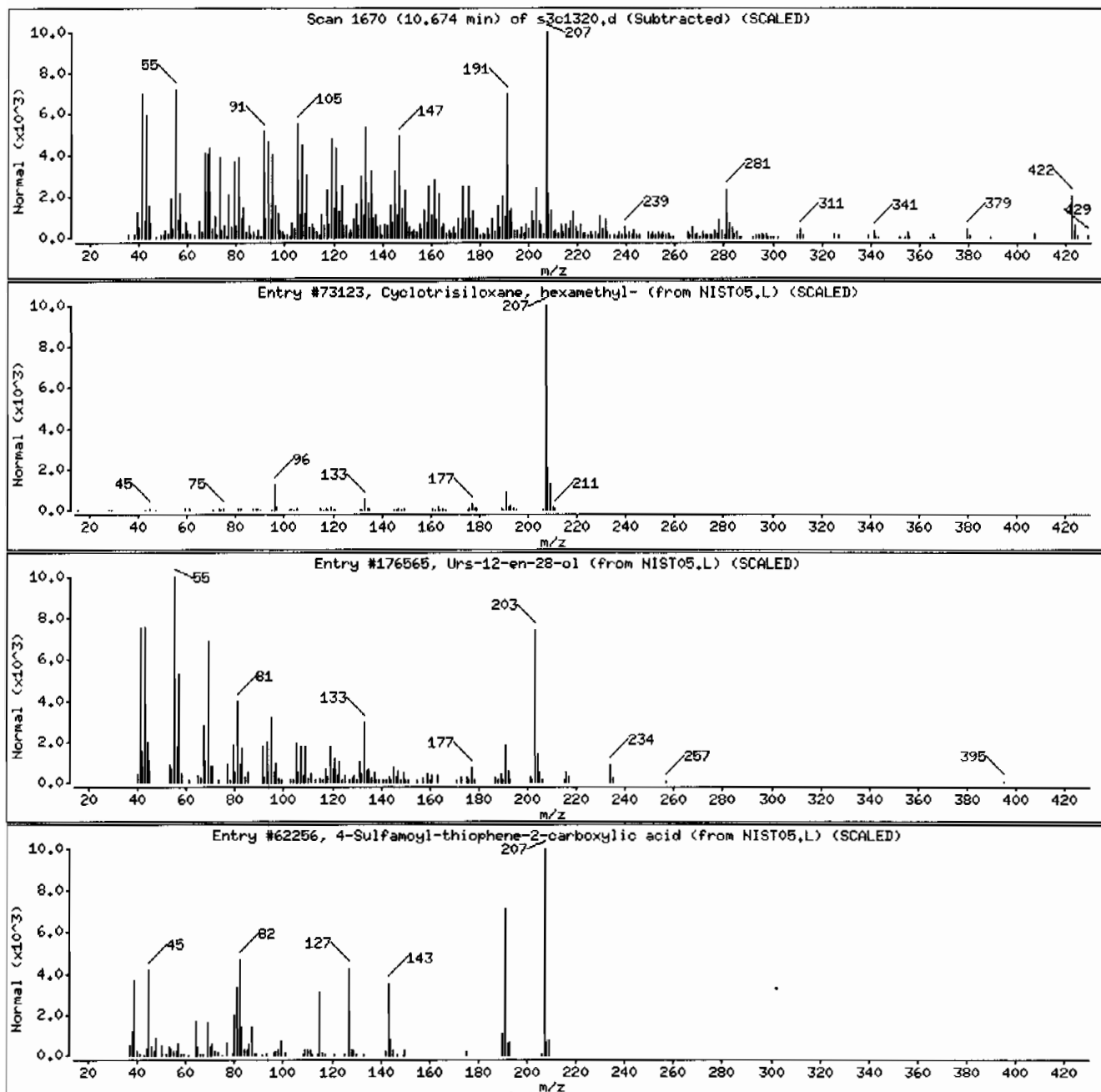
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73123	35	C ₆ H ₁₈ O ₃ Si ₃	222
Urs-12-en-28-ol	10153-88-5	NIST05.L	176565	22	C ₃₀ H ₅₀ O	426
4-Sulfamoyl-thiophene-2-carboxylic acid	1000300-36-6	NIST05.L	62256	20	C ₅ H ₅ N ₀ O ₄ S ₂	207



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 1248197007196045914|SVHF11|LANL

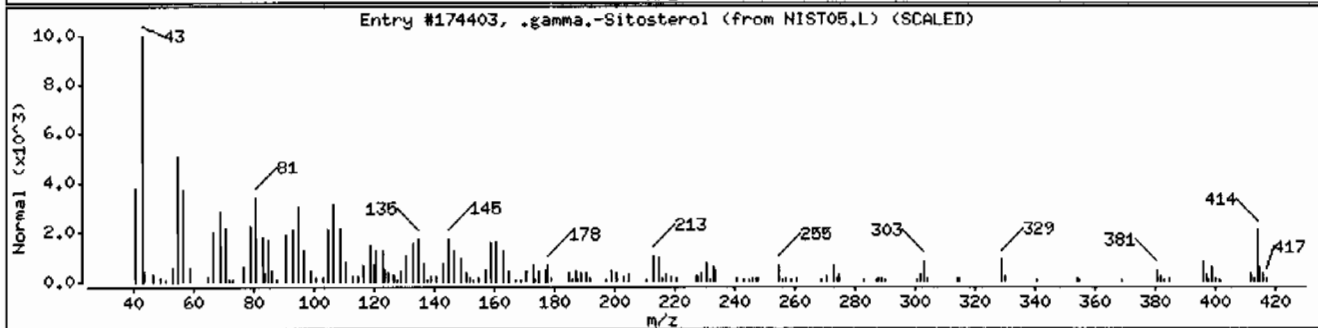
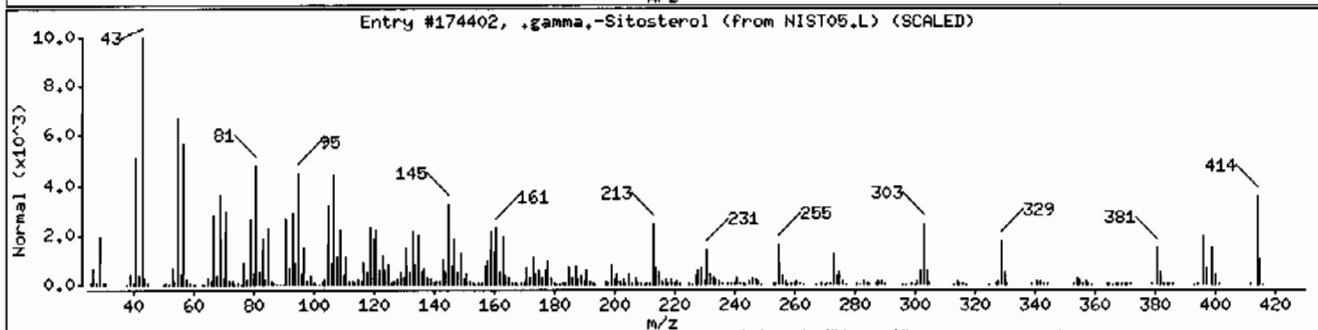
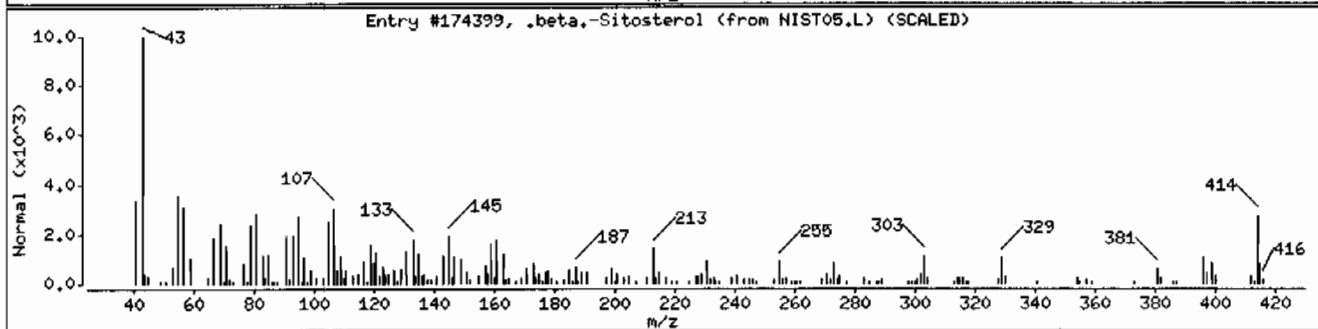
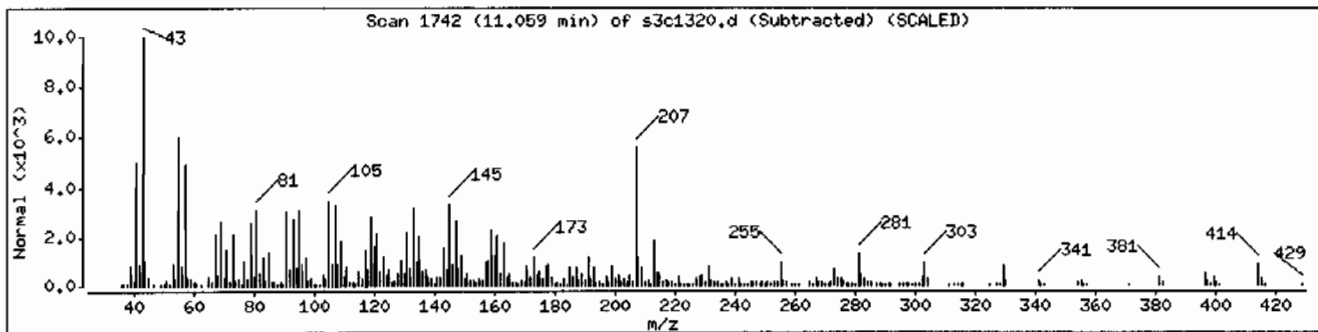
Volume Injected (uL): 0.5

Operator: JLD1

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	174399	93	C29H50O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	91	C29H50O	414
.gamma.-Sitosterol	83-47-6	NIST05.L	174403	53	C29H50O	414



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVHF111LANL

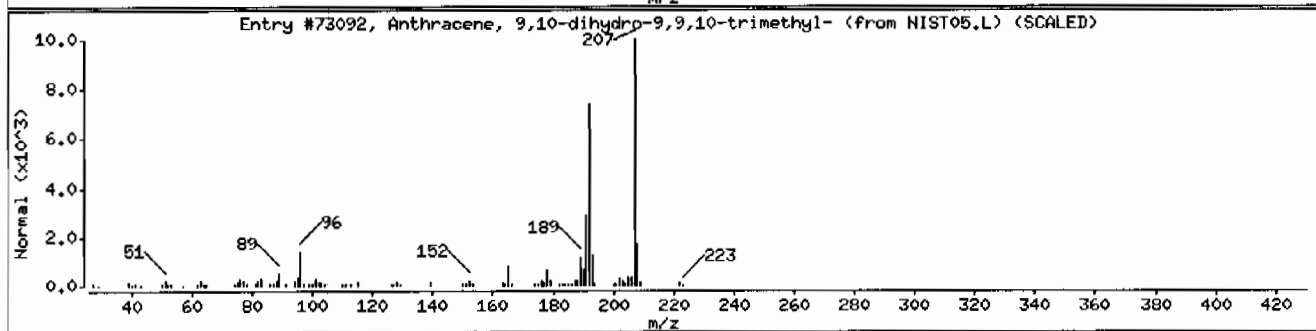
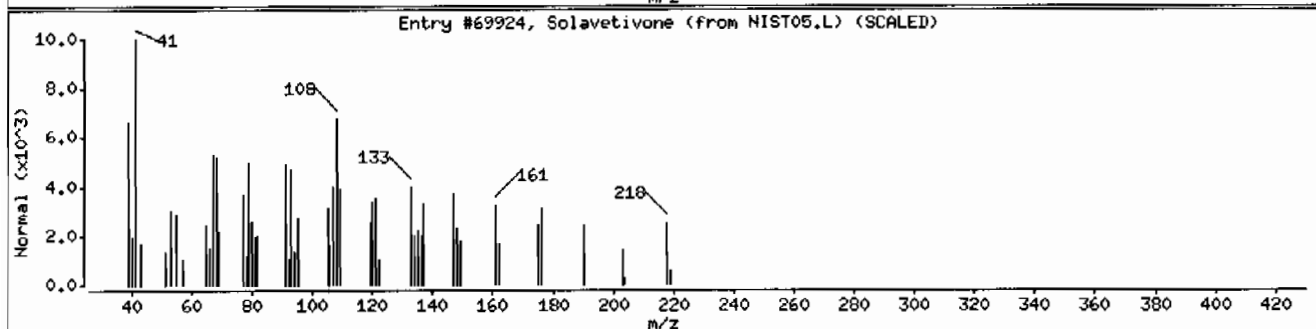
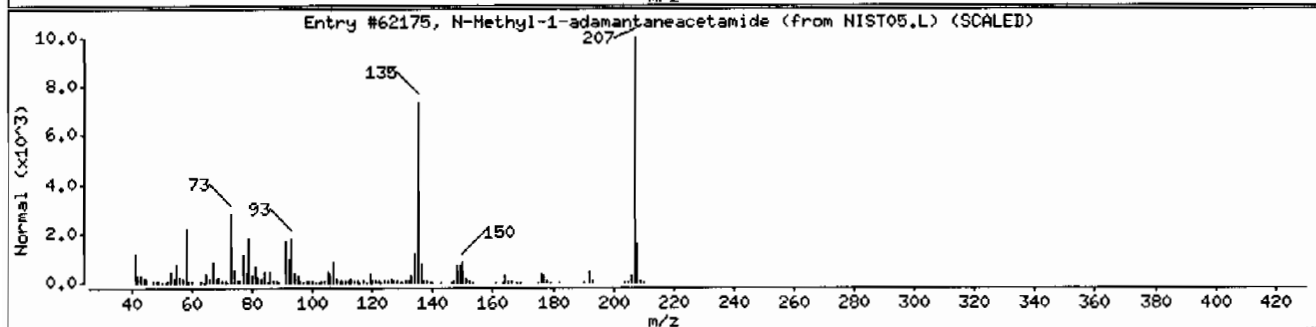
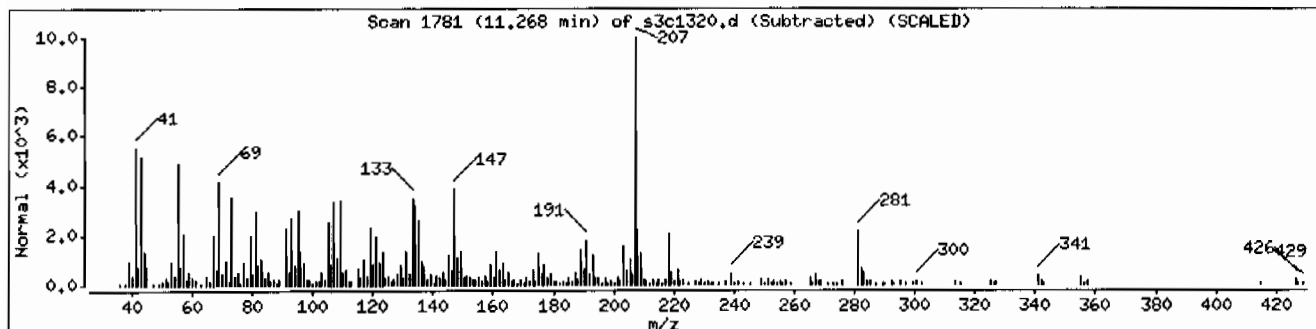
Volume Injected (uL): 0.5

Operator: JLD1

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	38	C13H21NO	207
Solavetivone	54878-25-0	NIST05.L	69924	38	C15H22O	218
Anthracene, 9,10-dihydro-9,9,10-trimethyl-	14923-29-6	NIST05.L	73092	30	C17H18	222



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: I2481970071960459141SVHF111LANL

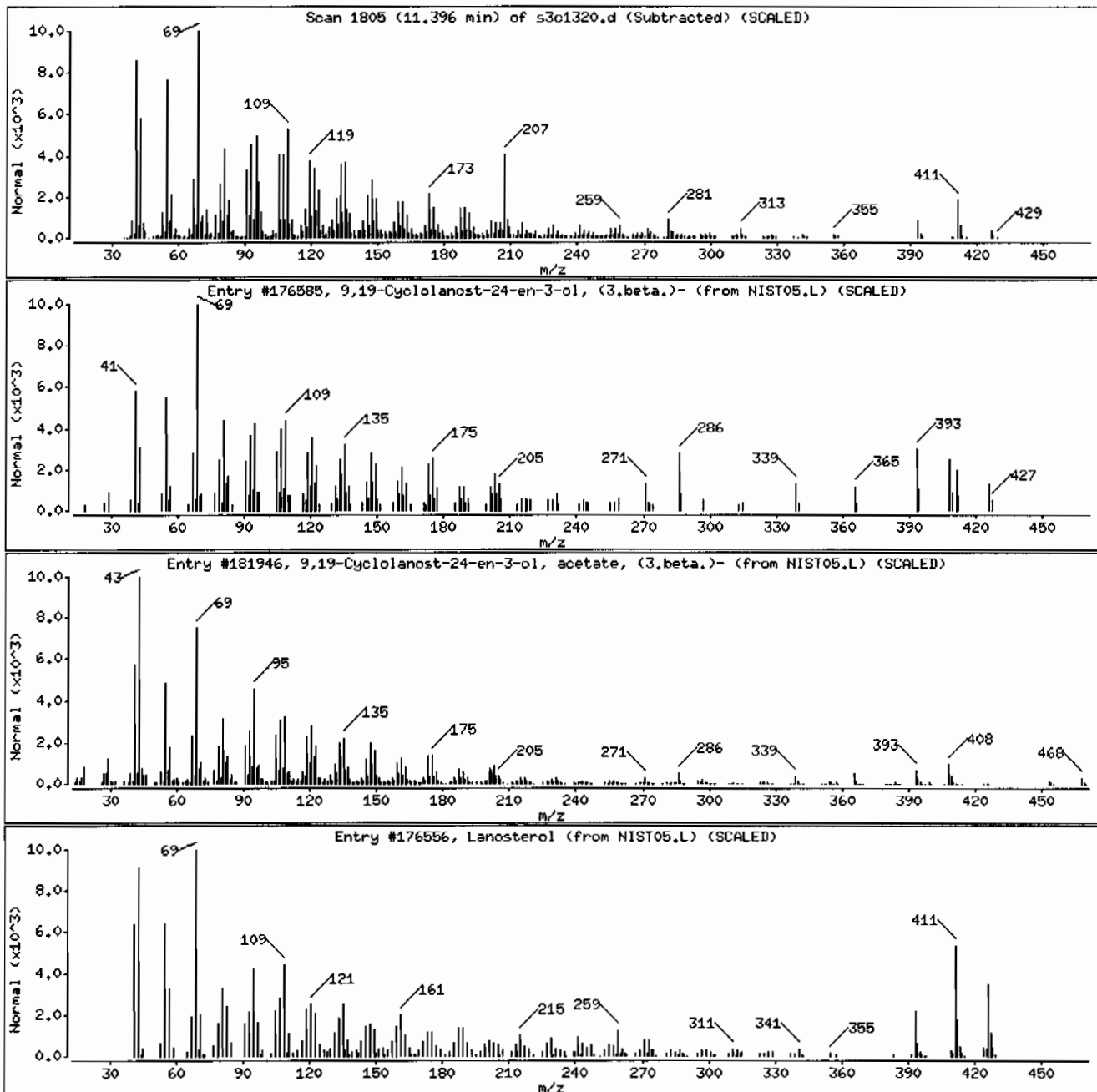
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	469-38-5	NIST05.L	176585	74	C30H50O	426
9,19-Cyclolanost-24-en-3-ol, acetate, (3	1259-10-5	NIST05.L	181946	52	C32H52O2	468
Lanosterol	79-63-0	NIST05.L	176556	52	C30H50O	426



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.i

Sample Info: 12481970071960459141SVMF11ILANL

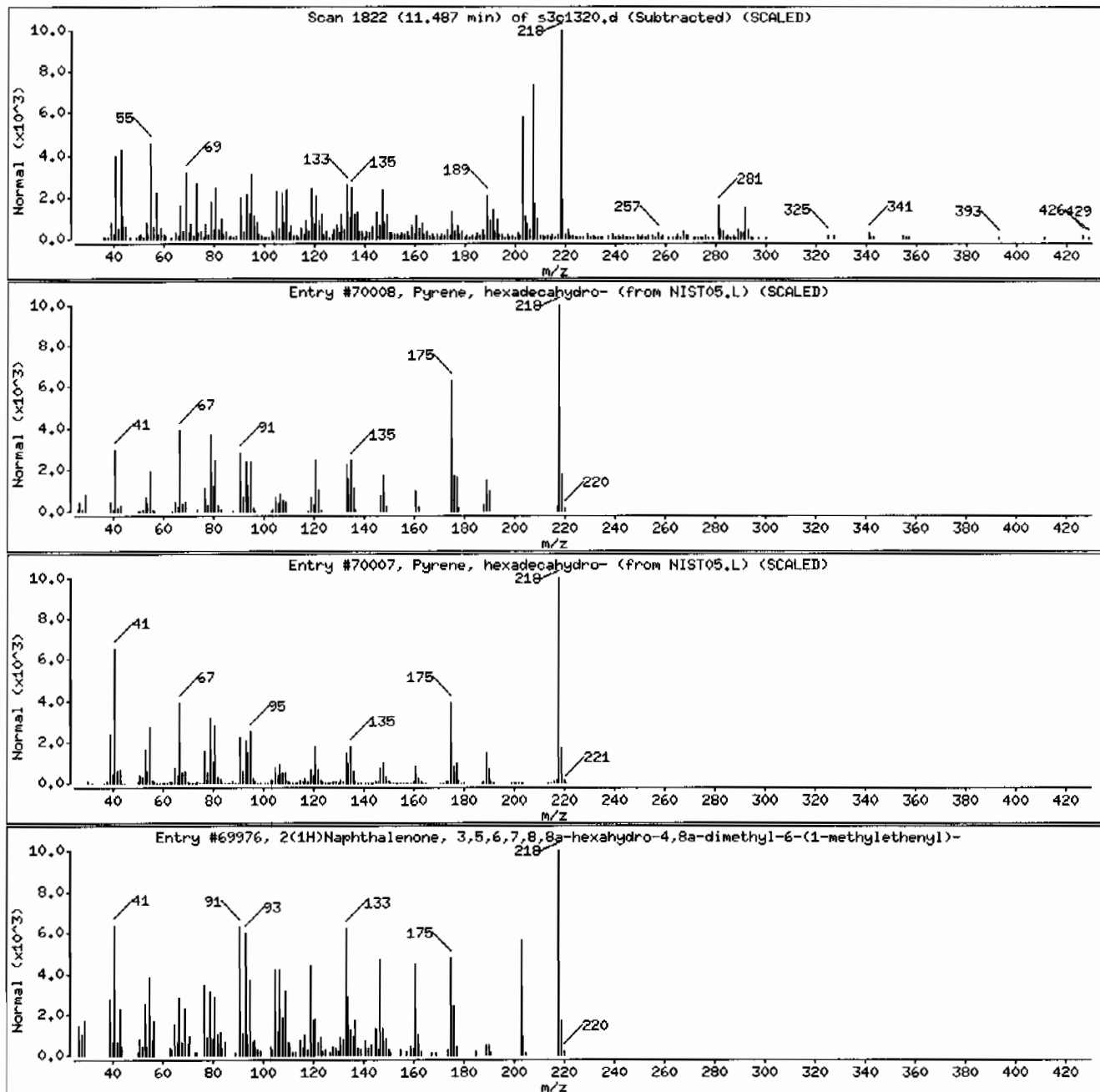
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, hexadecahydro-	2435-85-0	NIST05.L	70008	59	C16H26	218
Pyrene, hexadecahydro-	2435-85-0	NIST05.L	70007	55	C16H26	218
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	50	C15H22O	218



Date: 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: MSD3.1

Sample Info: 12481970071960459141SVHF111LANL

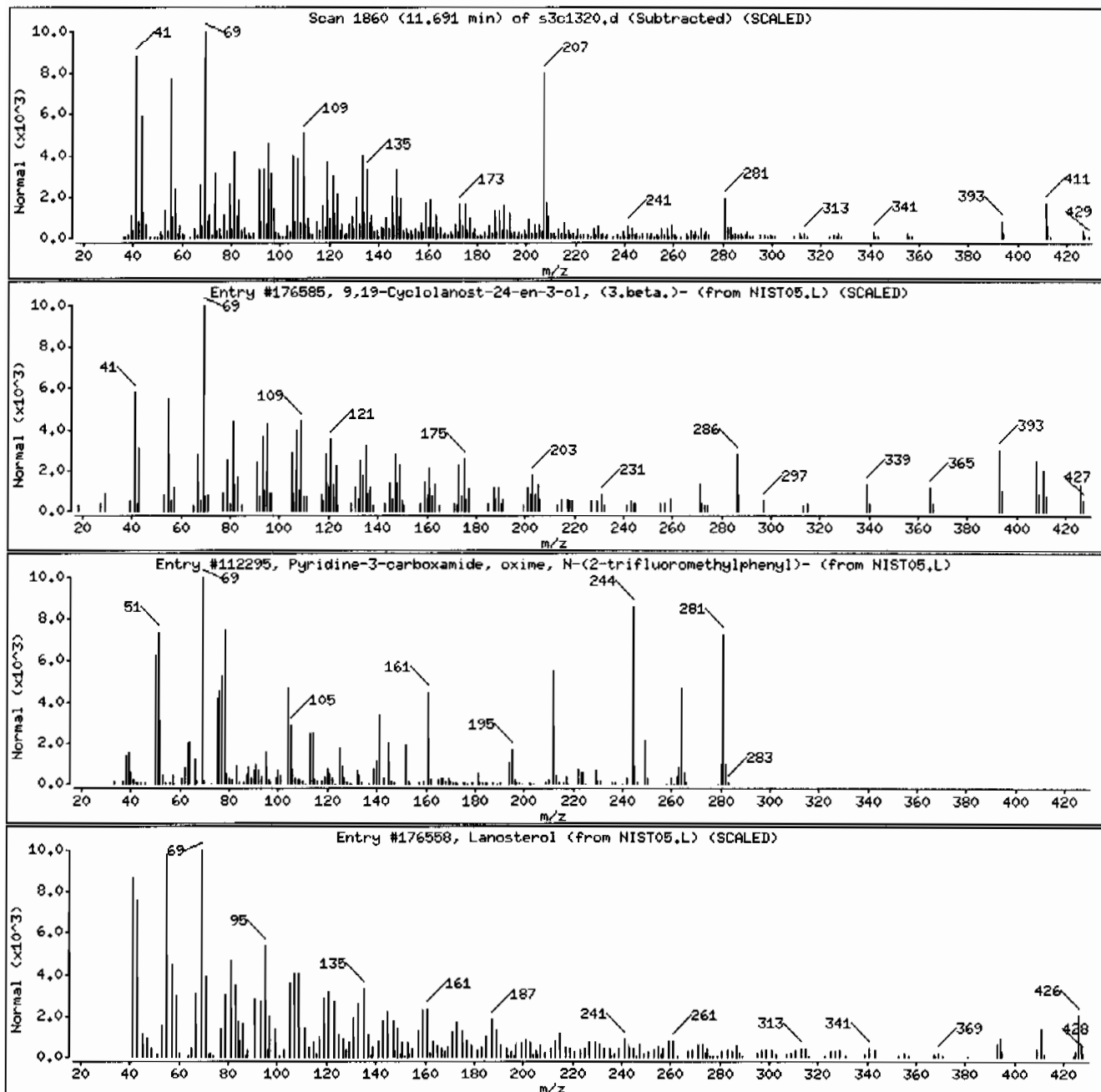
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	469-38-5	NIST05.L	176585	83	C30H50O	426
Pyridine-3-carboxamide, oxime, N-(2-trif	288246-53-7	NIST05.L	112295	59	C13H10F3N3O	281
Lanosterol	79-63-0	NIST05.L	176558	46	C30H50O	426



Date : 13-MAR-2010 17:15

Client ID: RE36-10-7426

Instrument: HSD3.i

Sample Info: 12481970071960459141SVHF111LANL

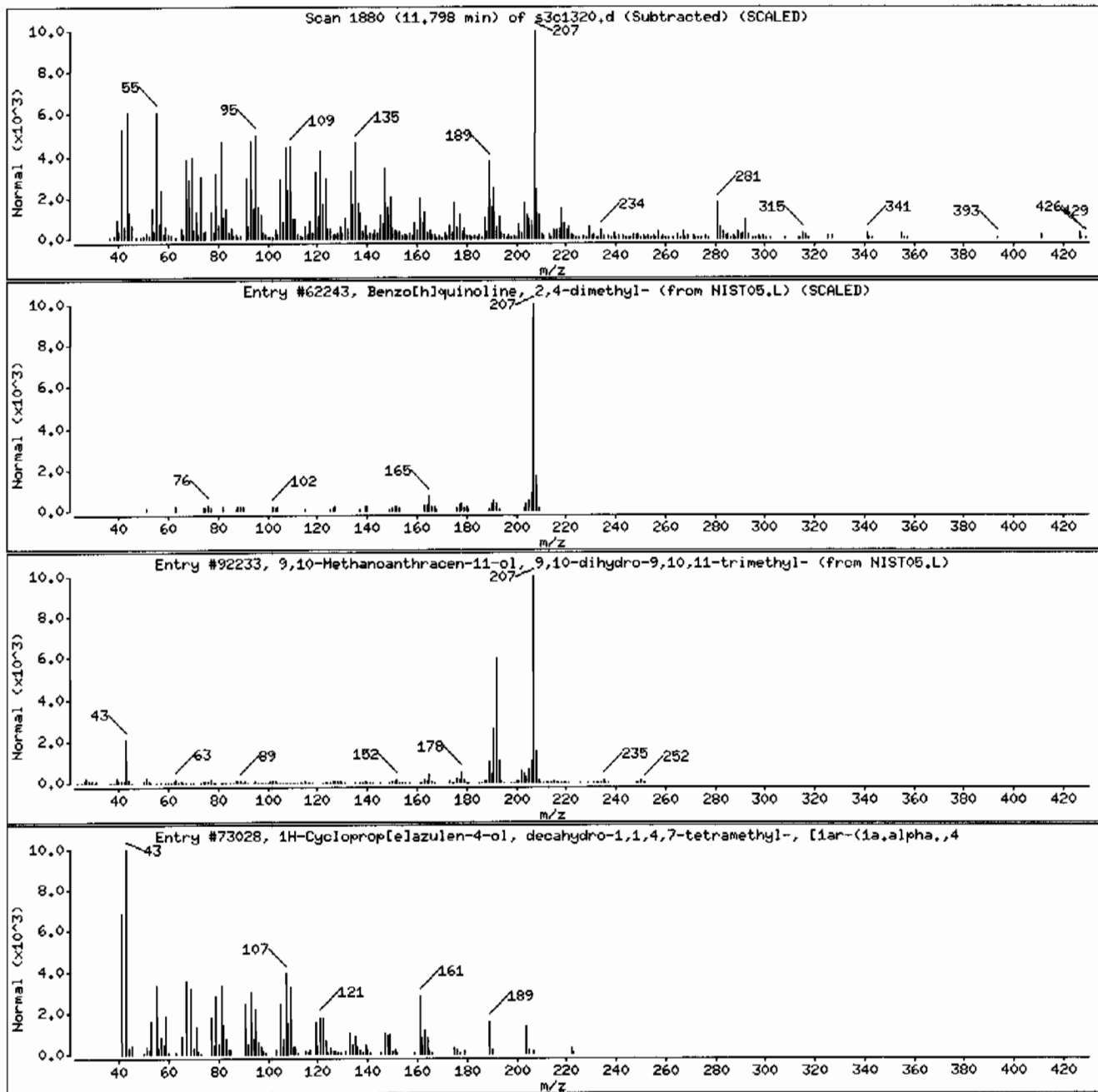
Volume Injected (uL): 0.5

Operator: JLD1

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	62243	30	C15H13N	207
9,10-Methanoanthracen-11-ol, 9,10-dihydro-	126615-74-5	NIST05.L	92233	25	C18H18O	250
1H-Cycloprop[elazulen-4-ol, decahydro-1,	552-02-3	NIST05.L	73028	25	C15H26O	222



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 18:13	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.18 g	Final Volume: 1 mL
Data File: s3c1323.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	943	ug/kg	189	943
108-95-2	Phenol	U	943	ug/kg	189	943
95-57-8	2-Chlorophenol	U	943	ug/kg	189	943
106-46-7	1,4-Dichlorobenzene	U	943	ug/kg	189	943
621-64-7	N-Nitrosodipropylamine	U	943	ug/kg	189	943
59-50-7	4-Chloro-3-methylphenol	U	943	ug/kg	189	943
83-32-9	Acenaphthene	U	94.3	ug/kg	31.1	94.3
121-14-2	2,4-Dinitrotoluene	U	943	ug/kg	94.3	943
100-02-7	4-Nitrophenol	U	943	ug/kg	311	943
87-86-5	Pentachlorophenol	U	943	ug/kg	236	943
129-00-0	Pyrene	J	77.5	ug/kg	28.3	94.3
110-86-1	Pyridine	U	943	ug/kg	189	943
62-53-3	Aniline	U	943	ug/kg	283	943
111-44-4	bis(2-Chloroethyl) ether	U	943	ug/kg	189	943
541-73-1	1,3-Dichlorobenzene	U	943	ug/kg	189	943
100-51-6	Benzyl alcohol	U	943	ug/kg	283	943
95-50-1	1,2-Dichlorobenzene	U	943	ug/kg	189	943
108-60-1	bis(2-Chloroisopropyl)ether	U	943	ug/kg	189	943
95-48-7	o-Cresol	U	943	ug/kg	189	943
65794-96-9	m,p-Cresols	U	943	ug/kg	283	943
67-72-1	Hexachloroethane	U	943	ug/kg	189	943
98-95-3	Nitrobenzene	U	943	ug/kg	189	943
78-59-1	Isophorone	U	943	ug/kg	189	943
88-75-5	2-Nitrophenol	U	943	ug/kg	189	943
105-67-9	2,4-Dimethylphenol	U	943	ug/kg	330	943
111-91-1	bis(2-Chloroethoxy)methane	U	943	ug/kg	189	943
120-83-2	2,4-Dichlorophenol	U	943	ug/kg	189	943
65-85-0	Benzoic acid	U	1890	ug/kg	471	1890
91-20-3	Naphthalene	U	94.3	ug/kg	28.3	94.3
106-47-8	4-Chloroaniline	U	943	ug/kg	189	943
87-68-3	Hexachlorobutadiene	U	943	ug/kg	189	943
91-57-6	2-Methylnaphthalene	U	94.3	ug/kg	18.9	94.3
77-47-4	Hexachlorocyclopentadiene	U	943	ug/kg	189	943
88-06-2	2,4,6-Trichlorophenol	U	943	ug/kg	189	943
95-95-4	2,4,5-Trichlorophenol	U	943	ug/kg	189	943
91-58-7	2-Chloronaphthalene	U	94.3	ug/kg	31.1	94.3
88-74-4	2-Nitroaniline	U	943	ug/kg	189	943
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	943	ug/kg	189	943

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
Client ID: RE36-10-7429	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 18:13	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1323.d	Aliquot: 30.18 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	943	ug/kg	189	943
606-20-2	2,6-Dinitrotoluene	U	943	ug/kg	94.3	943
208-96-8	Acenaphthylene	U	94.3	ug/kg	28.3	94.3
51-28-5	2,4-Dinitrophenol	U	1890	ug/kg	358	1890
132-64-9	Dibenzofuran	U	943	ug/kg	189	943
84-66-2	Diethylphthalate	U	943	ug/kg	189	943
86-73-7	Fluorene	U	94.3	ug/kg	28.3	94.3
7005-72-3	4-Chlorophenylphenylether	U	943	ug/kg	189	943
534-52-1	2-Methyl-4,6-dinitrophenol	U	943	ug/kg	189	943
100-01-6	4-Nitroaniline	U	943	ug/kg	283	943
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	943	ug/kg	189	943
122-66-7	Azobenzene	U	943	ug/kg	189	943
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	943	ug/kg	189	943
118-74-1	Hexachlorobenzene	U	943	ug/kg	189	943
85-01-8	Phenanthrene	J	52.4	ug/kg	28.3	94.3
120-12-7	Anthracene	U	94.3	ug/kg	18.9	94.3
84-74-2	Di-n-butylphthalate	U	943	ug/kg	189	943
206-44-0	Fluoranthene	J	74.9	ug/kg	28.3	94.3
85-68-7	Butylbenzylphthalate	U	943	ug/kg	189	943
56-55-3	Benzo(a)anthracene	J	48.8	ug/kg	28.3	94.3
91-94-1	3,3'-Dichlorobenzidine	U	943	ug/kg	283	943
218-01-9	Chrysene	J	39.4	ug/kg	28.3	94.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	943	ug/kg	189	943
117-84-0	Di-n-octylphthalate	U	943	ug/kg	189	943
205-99-2	Benzo(b)fluoranthene	J	74.0	ug/kg	28.3	94.3
207-08-9	Benzo(k)fluoranthene	U	94.3	ug/kg	28.3	94.3
50-32-8	Benzo(a)pyrene	J	37.1	ug/kg	28.3	94.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	94.3	ug/kg	28.3	94.3
53-70-3	Dibenzo(a,h)anthracene	U	94.3	ug/kg	28.3	94.3
191-24-2	Benzo(ghi)perylene	U	94.3	ug/kg	28.3	94.3
120-82-1	1,2,4-Trichlorobenzene	U	943	ug/kg	189	943

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	7.61	929	ug/kg	99	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	885	ug/kg	98	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197012	Date Received: 02/26/2010 08:45	%Moisture: 29.7
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7429	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 2
Run Date: 03/13/2010 18:13	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.18 g	Final Volume: 1 mL
Data File: s3c1323.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
77899-03-7	1-Heneicosyl formate	8.01	1420	ug/kg	90	NJ
110936-78-2	7-Oxodehydroabietic acid, methyl ester	8.3	808	ug/kg	92	NJ
1599-67-3	1-Docosene	8.43	2330	ug/kg	97	NJ
112-95-8	Eicosane	8.93	839	ug/kg	96	NJ
	Unknown	9.4	845	ug/kg		J
	Unknown	9.67	1060	ug/kg		J
57-87-4	Ergosterol	10.45	2060	ug/kg	96	NJ
83-47-6	.gamma.-Sitosterol	11.08	5500	ug/kg	95	NJ
	Unknown	11.27	1810	ug/kg		J
	Unknown	11.39	1770	ug/kg		J
	Unknown	11.5	4370	ug/kg		J
	Unknown	11.81	2100	ug/kg		J
1058-61-3	Stigmast-4-en-3-one	11.98	1890	ug/kg	91	NJ
	Unknown	12.49	811	ug/kg		J

Data File: /chem/MSD3.i/s031310.b/s3c1323.d
Report Date: 14-Mar-2010 16:35

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1323.d
Lab Smp Id: 248197012 Client Smp ID: RE36-10-7429
Inj Date : 13-MAR-2010 18:13
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197012|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 23
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.18000	weight of sample
M	29.70850	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473 (1.000)	598251	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329 (1.000)	2297595	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570 (1.000)	1228720	40.0000	
* 67 Phenanthrene-d10	188	6.594	6.592 (1.000)	2051998	40.0000	
* 91 Chrysene-d12	240	8.171	8.169 (1.000)	1323536	40.0000	
* 98 Perylene-d12	264	9.337	9.330 (1.000)	733967	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682 (0.774)	522874	38.8912	3670
\$ 5 Phenol-d5	99	3.208	3.206 (0.923)	612713	38.7913	3660
\$ 20 Nitrobenzene-d5	82	3.834	3.837 (0.886)	269292	20.5884	1940
\$ 39 2-Fluorobiphenyl	172	5.069	5.073 (0.911)	616445	19.7191	1860
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126 (1.101)	115999	41.1741	3880
\$ 81 p-Terphenyl-d14	244	7.524	7.522 (0.921)	520685	25.3802	2390

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
79 Pyrene		202	7.465	7.463	(0.914)	31487	0.82160	77.4 (a)
68 Phenanthrene		178	6.604	6.608	(1.002)	25858	0.55630	52.4 (a)
76 Fluoranthene		202	7.326	7.324	(1.111)	33435	0.79412	74.9 (a)
89 Benzo (a) anthracene		228	8.166	8.159	(0.999)	15900	0.51729	48.8 (a)
92 Chrysene		228	8.182	8.185	(1.001)	13121	0.41749	39.4 (a)
95 Benzo (b) fluoranthene		252	8.968	8.966	(0.960)	14614	0.78444	74.0 (aQ)
97 Benzo (a) pyrene		252	9.284	9.277	(0.994)	6293	0.39321	37.1 (a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1323.d

Report Date: 03/14/2010 14:33

Lab. ID: 248197012

SampleType: SAMPLE

Injection Date: 13-MAR-2010 18:13

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197012|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	33567	3.21	3.26	80-120	100	()
93	8042	3.25	3.26	200-260	24	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	39369	3.83	3.72	80-120	100	(T)
42	32767	3.83	3.72	76-136	83	(T)

22	Isophorone		CAS#: 78-59-1			
82	267166	3.83	4.00	80-120	100	(T)
138	209	3.76	4.00	0- 55	0	(T)

27	Benzoic acid		CAS#: 65-85-0			
105	753	4.11	4.12	80-120	100	()
122	156	4.11	4.12	55-115	21	(Q)
77	421	4.11	4.12	29- 89	56	()

43	Dimethylphthalate		CAS#: 131-11-3			
163	222797	5.57	5.35	80-120	100	(T)
164	1228720	5.57	5.35	0- 40	551	(QT)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	161120	5.57	5.40	80-120	100	(T)
63	1942	5.57	5.40	49-109	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	161120	5.57	5.69	80-120	100	(T)
89	2207	5.57	5.69	48-108	1	(QT)
63	1942	5.57	5.69	21- 81	1	(QT)
<hr/>						
52	4-Nitrophenol		CAS#: 100-02-7			
139	221	5.64	5.63	80-120	100	()
109	2875	5.57	5.63	39- 99	1299	(QT)
65	310	5.71	5.63	60-120	140	(QT)
<hr/>						
55	2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1			
198	582	6.12	5.98	80-120	100	(T)
105	1317	6.12	5.98	14- 74	226	(QT)
51	1196	6.12	5.98	40-100	206	(QT)
<hr/>						
56	p-Nitroaniline		CAS#: 100-01-6			
138	225	5.98	5.97	80-120	100	()
108	388	5.85	5.97	35- 95	173	(QT)
92	210	5.96	5.97	5- 65	94	(Q)
<hr/>						
68	Phenanthrene		CAS#: 85-01-8			
178	25858	6.60	6.61	80-120	100	()
179	5346	6.60	6.61	0- 46	21	()
176	4542	6.60	6.61	0- 49	18	()
<hr/>						
69	Anthracene		CAS#: 120-12-7			
178	25858	6.60	6.64	80-120	100	()
179	5346	6.60	6.64	0- 46	21	()
176	4542	6.60	6.64	0- 49	18	()
<hr/>						
76	Fluoranthene		CAS#: 206-44-0			
202	33435	7.33	7.32	80-120	100	()
203	5426	7.33	7.32	0- 47	16	()
101	4385	7.33	7.32	0- 43	13	()
<hr/>						
79	Pyrene		CAS#: 129-00-0			
202	31487	7.47	7.46	80-120	100	()
200	6515	7.47	7.46	0- 51	21	()
101	5651	7.47	7.46	0- 46	18	()
<hr/>						
89	Benzo(a)anthracene		CAS#: 56-55-3			
228	15900	8.17	8.16	80-120	100	()
226	3159	8.17	8.16	0- 57	20	()
229	4891	8.17	8.16	0- 50	31	()
<hr/>						
92	Chrysene		CAS#: 218-01-9			
228	13121	8.18	8.19	80-120	100	()
229	4248	8.18	8.19	0- 50	32	()
226	4706	8.18	8.19	0- 59	36	()
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	14614	8.97	8.97	80-120	100	()
253	3054	8.97	8.97	0- 52	21	()
125	7945	8.97	8.96	0- 44	54	(Q)

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	14614	8.97	8.99	80-120	100	()
253	3127	8.97	8.99	0- 52	21	()
125	7945	8.97	8.99	0- 48	54	(Q)

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	6293	9.28	9.28	80-120	100	()
253	1518	9.28	9.28	0- 52	24	()
125	2884	9.28	9.28	0- 48	46	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1323.d
Lab Smp Id: 248197012 Client Smp ID: RE36-10-7429
Inj Date : 13-MAR-2010 18:13
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197012|960459|2|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 23
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.18000	weight of sample
M	29.70850	% moisture

Cpnd Variable

Local Compound Variable

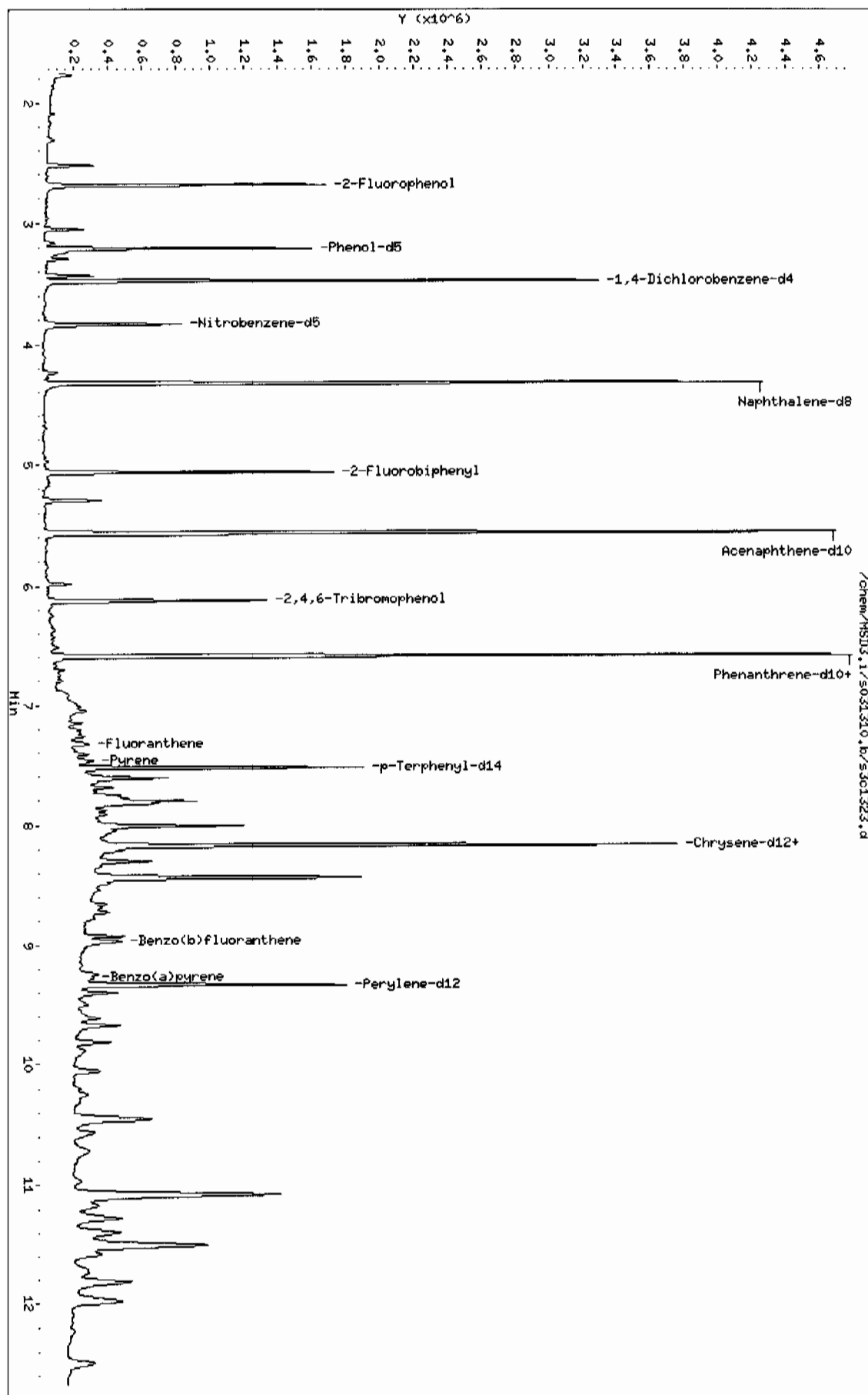
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.171	5174361	40.000
* 98 Perylene-d12	9.337	2500291	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Phenanthrene, 1-methyl-7-(1-methylethyl)					CAS #: 483-65-8		
7.610	1274332	9.85112293	929	99	NIST05.L	81277	91

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1235-74-1		
7.802	1214546	9.38895628	885	98	NIST05.L	133618	91
1-Heneicosyl formate					CAS #: 77899-03-7		
8.006	1942581	15.0169713	1420	90	NIST05.L	147938	91
7-Oxodehydroabiatic acid, methyl ester					CAS #: 110936-78-2		
8.300	1108734	8.57098237	808	92	NIST05.L	141448	91
1-Docosene					CAS #: 1599-67-3		
8.433	3192388	24.6785060	2330	97	NIST05.L	129889	91
Eicosane					CAS #: 112-95-8		
8.926	556506	8.90305889	839	96	NIST05.L	113492	98
Unknown					CAS #:		
9.402	560423	8.96571708	845	0		0	98
Unknown					CAS #:		
9.674	700433	11.2056146	1060	0		0	98
Ergosterol					CAS #: 57-87-4		
10.450	1368972	21.9010059	2060	96	NIST05.L	170282	98
.gamma.-Sitosterol					CAS #: 83-47-6		
11.076	3645288	58.3178032	5500	95	NIST05.L	174402	98
Unknown					CAS #:		
11.274	1201796	19.2265000	1810	0		0	98
Unknown					CAS #:		
11.391	1175242	18.8016866	1770	0		0	98
Unknown					CAS #:		
11.504	2894223	46.3021769	4360	0		0	98
Unknown					CAS #:		
11.814	1391786	22.2659839	2100	0		0	98
Stigmast-4-en-3-one					CAS #: 1058-61-3		
11.980	1252322	20.0348164	1890	91	NIST05.L	173936	98
Unknown					CAS #:		
12.493	538009	8.60714238	811	0		0	98

Data File: /chem/MSD3.i/s031310.b/s3c1323.d
 Date : 13-MAR-2010 18:13
 Client ID: REC6-10-7429
 Sample Info: 12481970121960459121SWH111.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD3.1
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: HSD3.i

Sample Info: 12481970121960459121SVHF11ILANL

Volume Injected (uL): 0.5

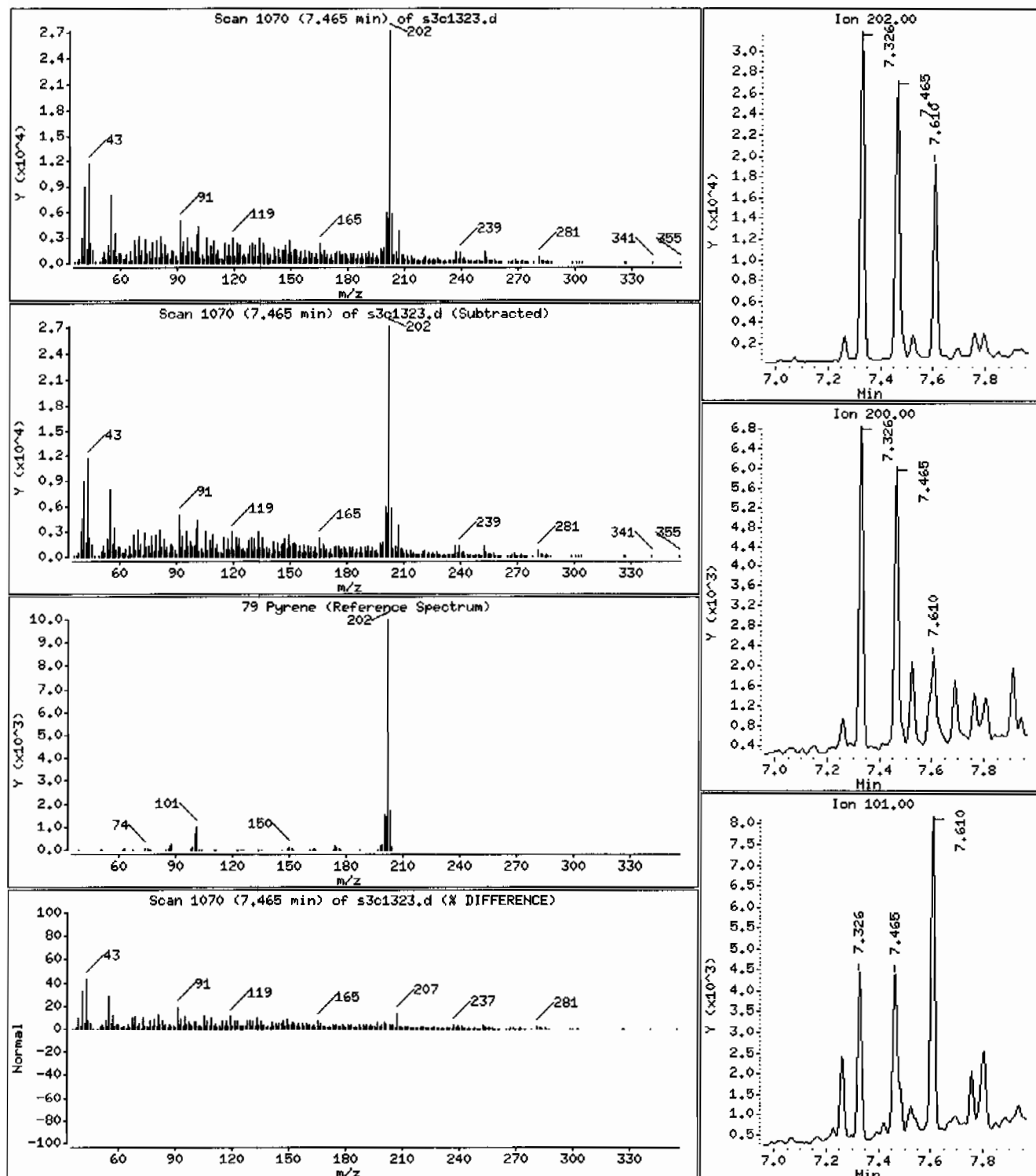
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 77.4 ug/Kg



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVMF111LANL

Volume Injected (uL): 0.5

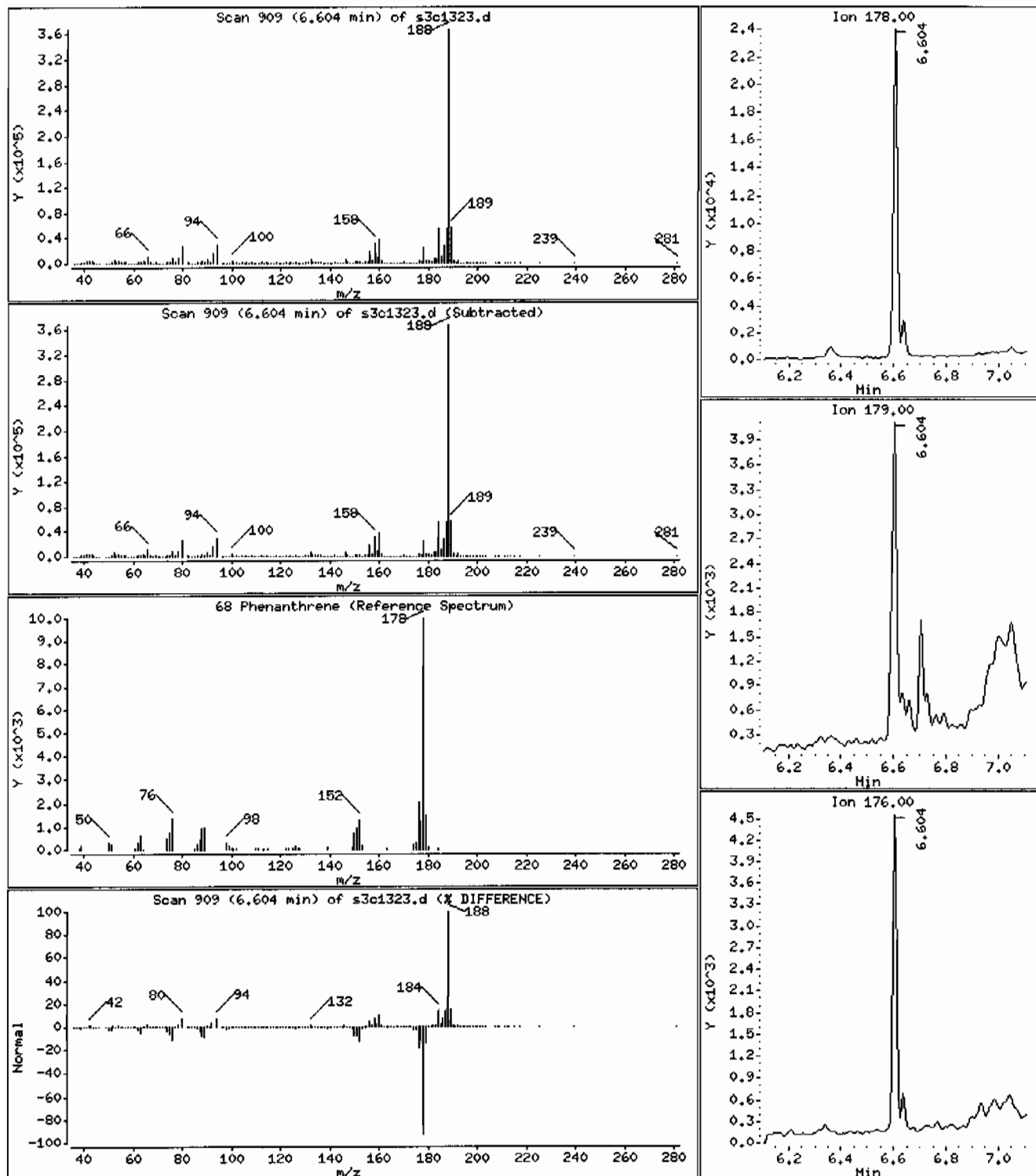
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 52.4 ug/Kg



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: HSD3.i

Sample Info: 1248197012|96045912|SVHF11|LANL

Volume Injected (uL): 0.5

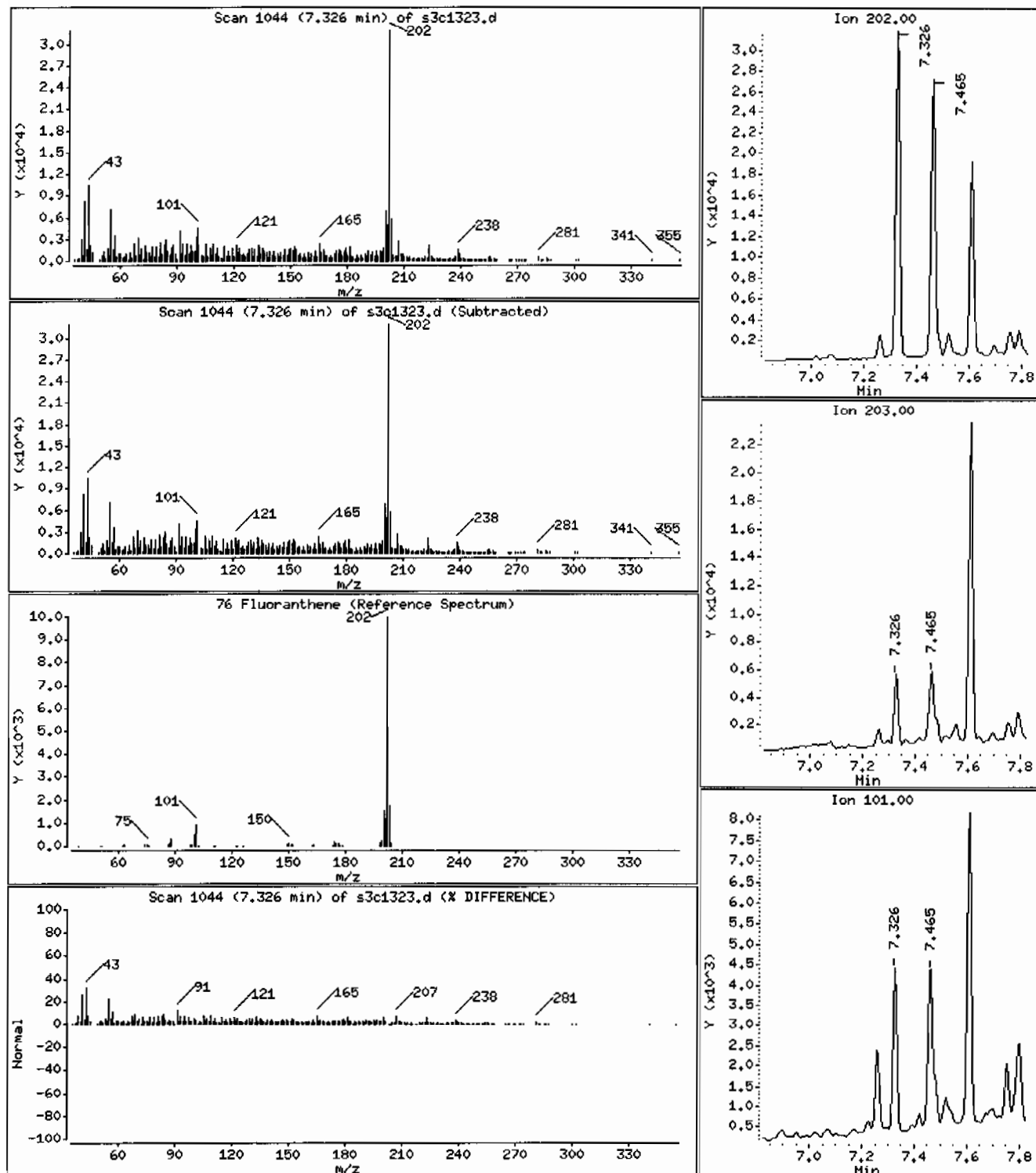
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 74.9 ug/Kg



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF111LANL

Volume Injected (uL): 0.5

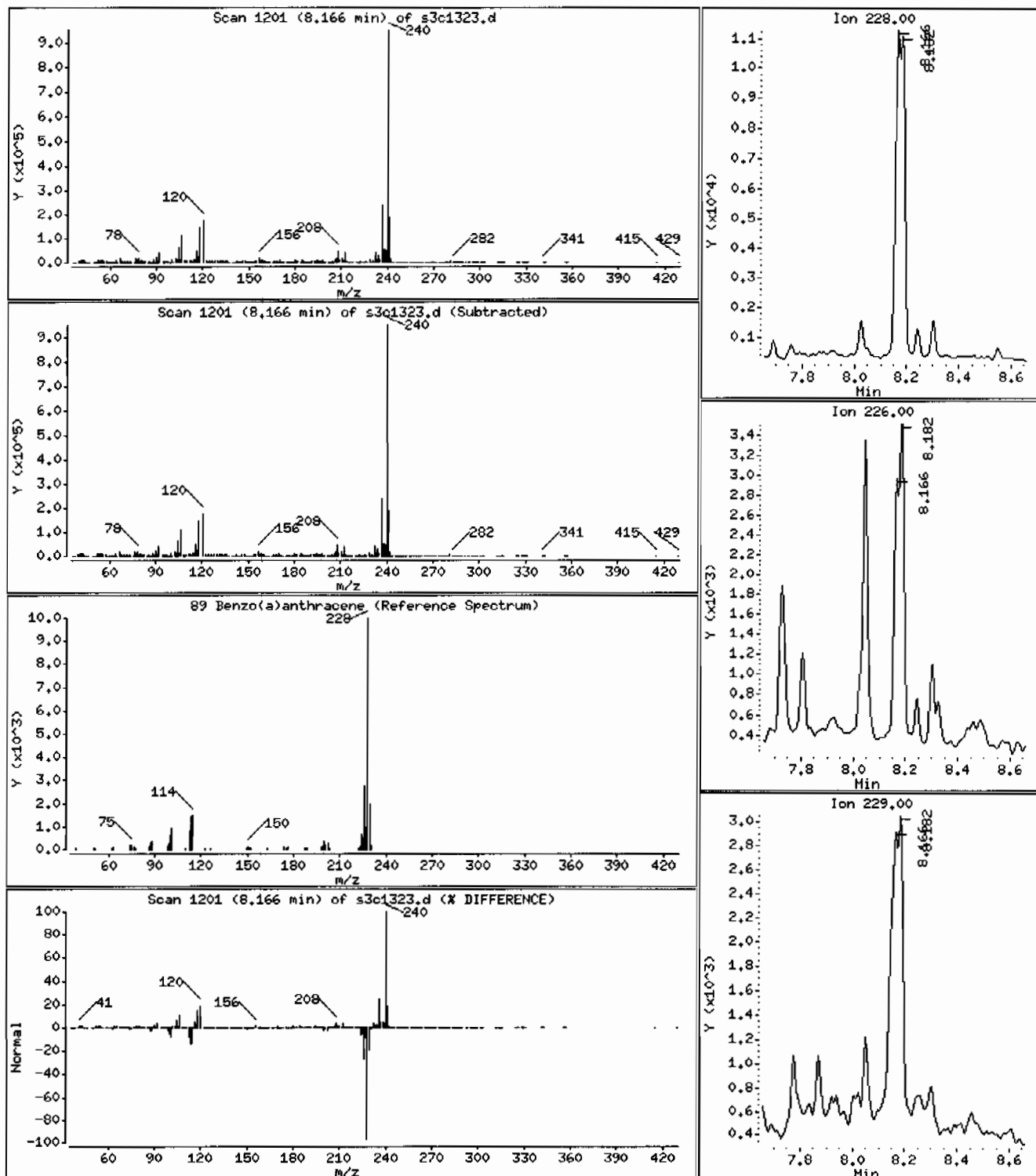
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 48.8 ug/Kg



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: I2481970121960459121SVMF111LANL

Volume Injected (uL): 0.5

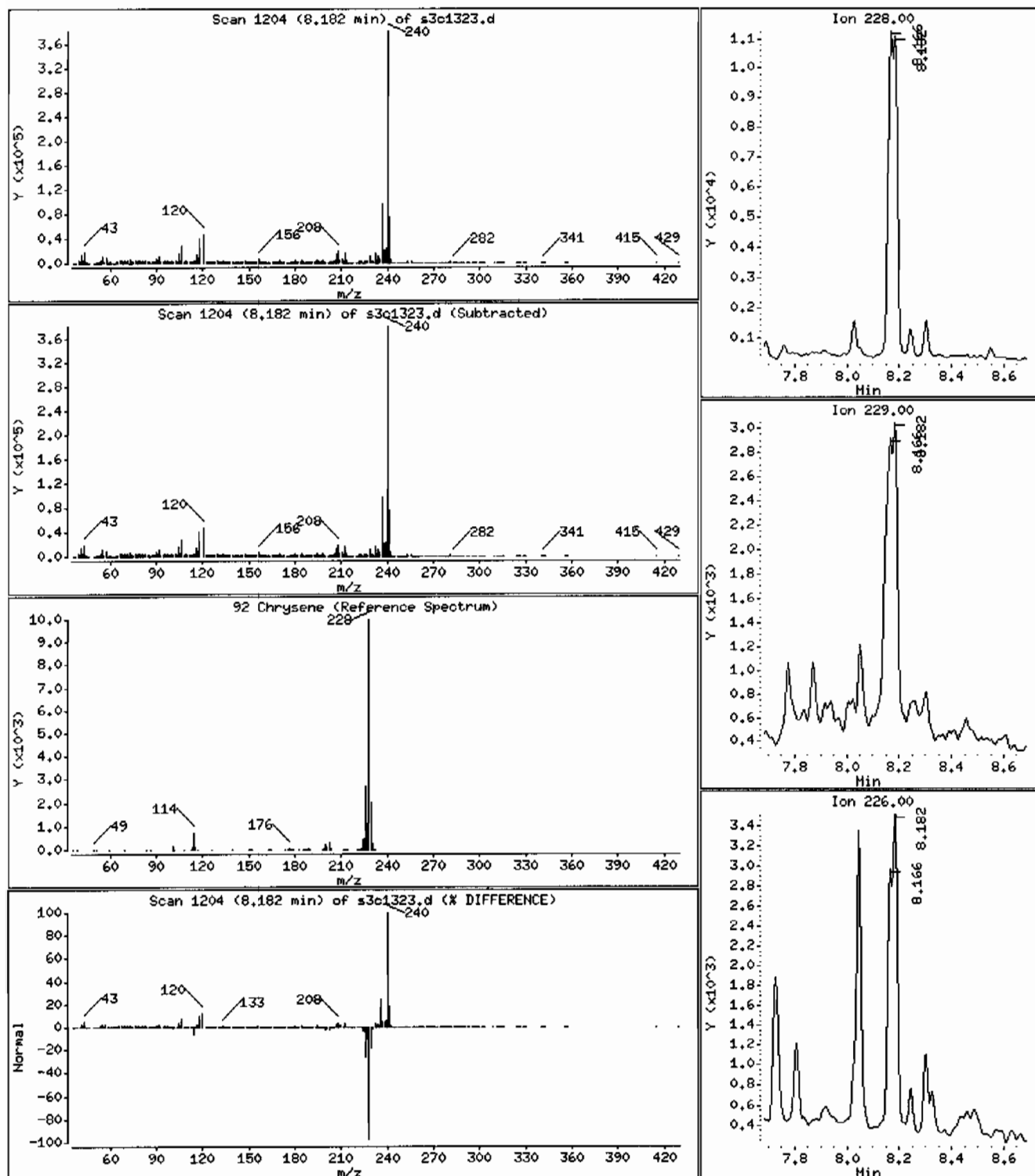
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 39.4 ug/Kg



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 1248197012|96045912|SVHF11ILANL

Volume Injected (uL): 0.5

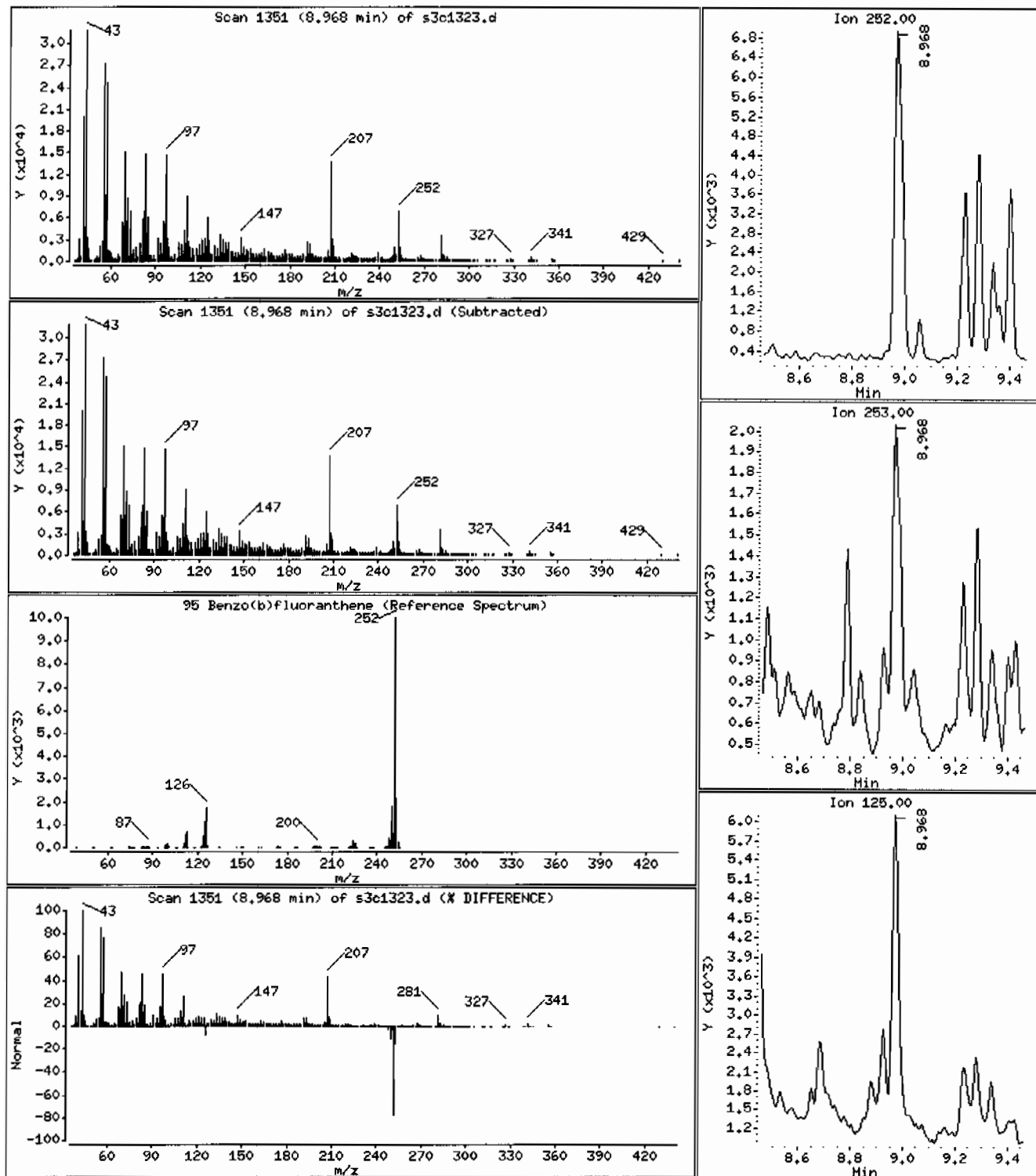
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 74.0 ug/Kg



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3,i

Sample Info: 12481970121960459121SVMF111LANL

Volume Injected (uL): 0.5

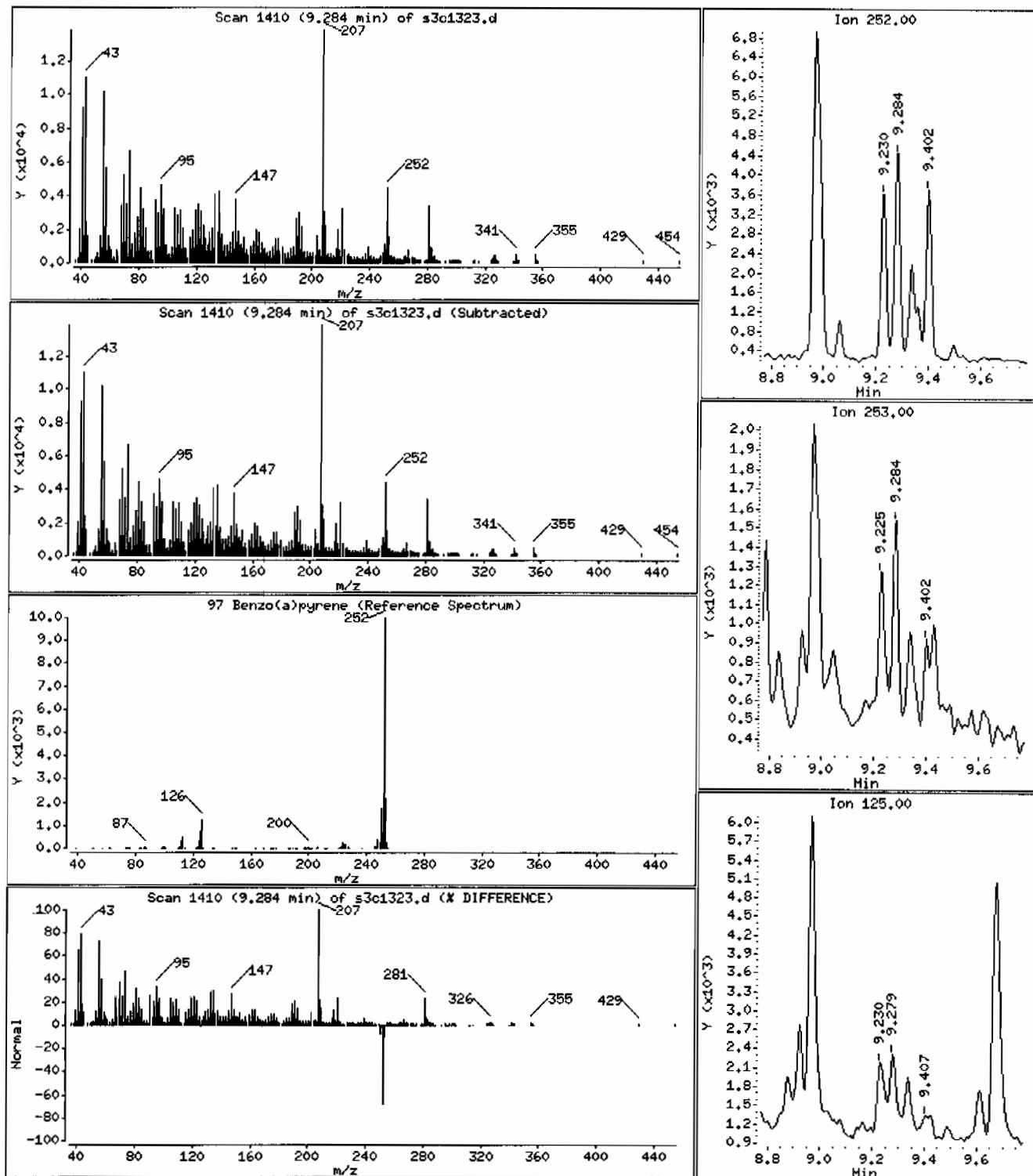
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 37.1 ug/Kg



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: I248197012I960459I2ISVMFI1ILANL

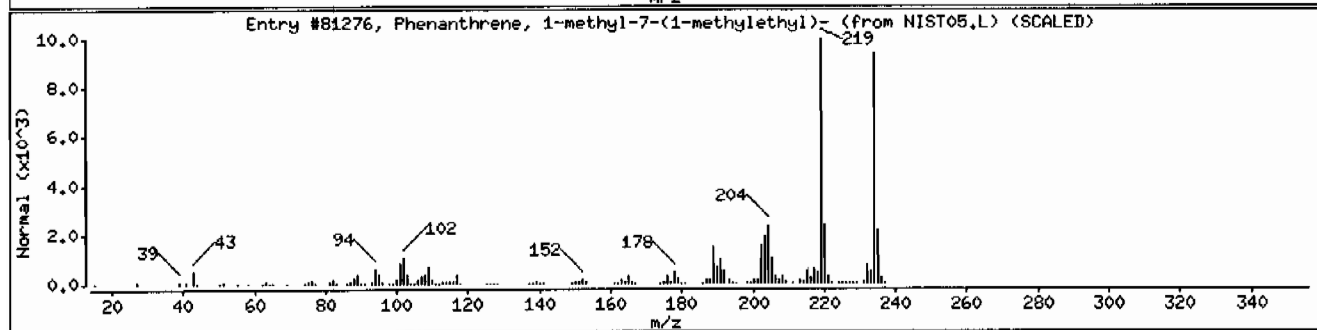
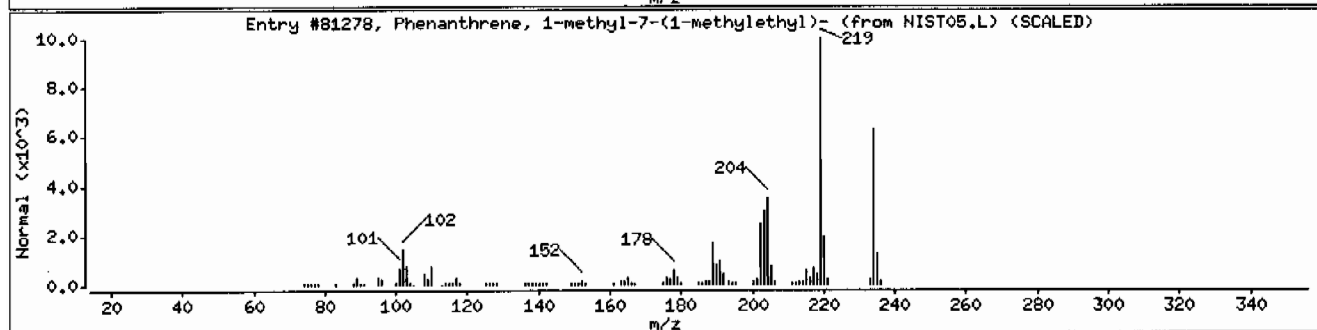
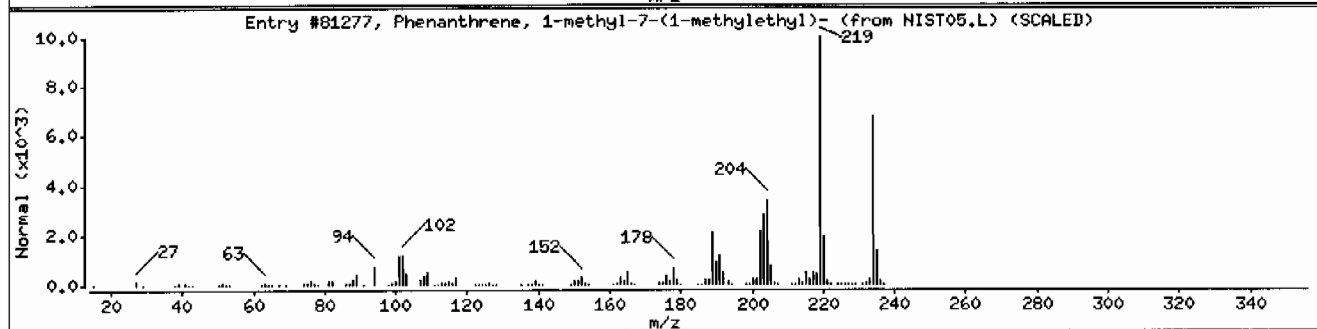
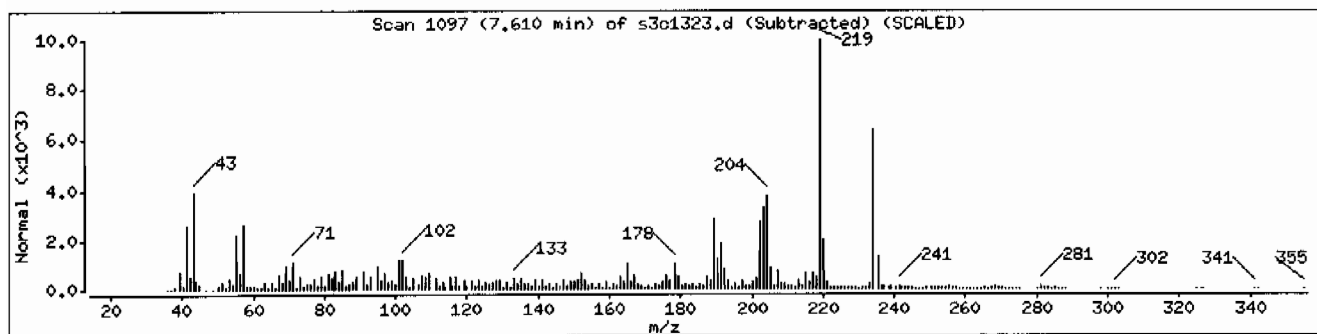
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST05.L	81277	99	C18H18	234
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST05.L	81278	99	C18H18	234
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST05.L	81276	94	C18H18	234



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: HSD3.i

Sample Info: 12481970121960459121SVHF111LANL

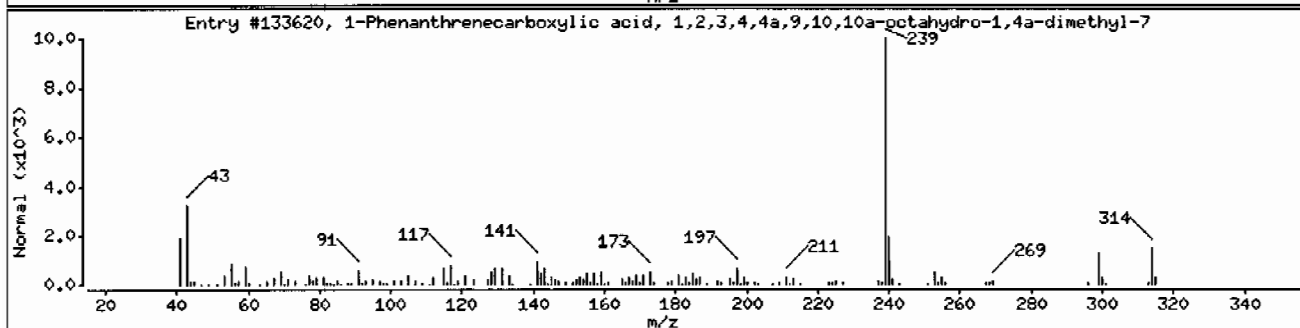
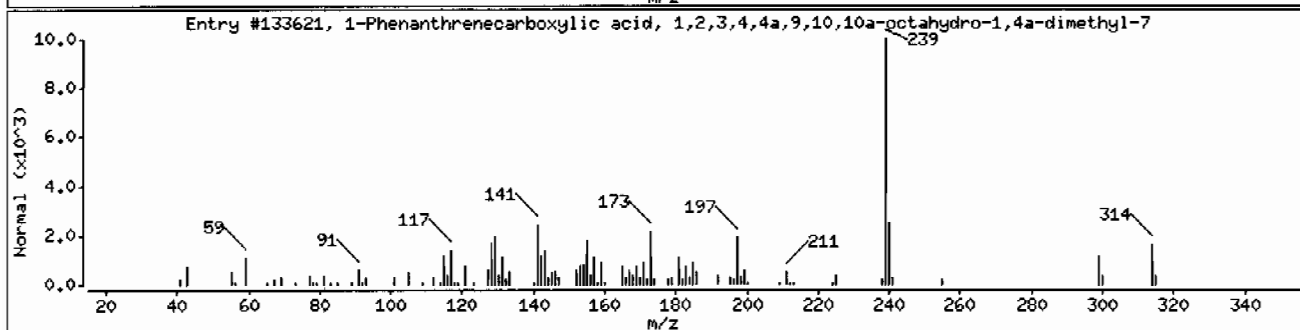
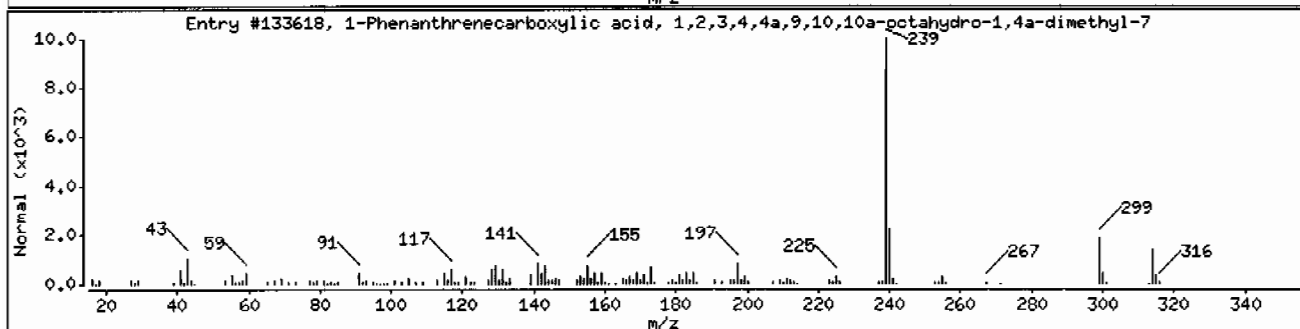
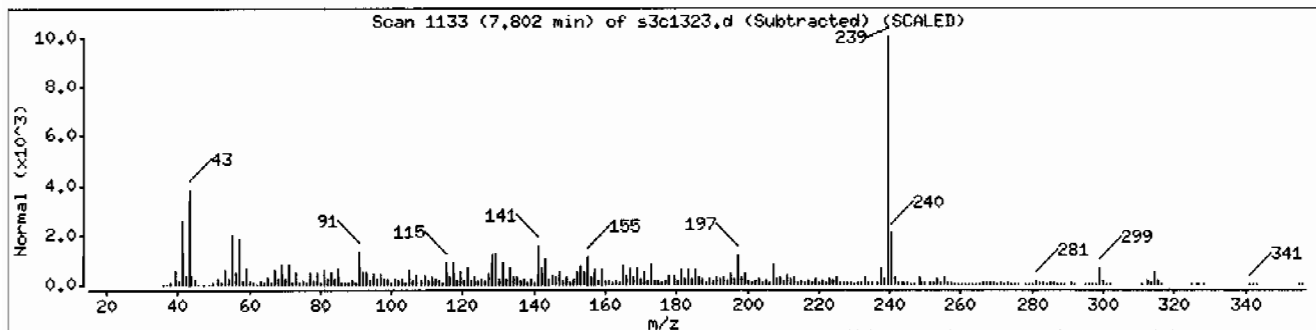
Volume Injected (uL): 0.5

Operator: JLD1

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	98	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133621	96	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133620	94	C21H30O2	314



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: HSD3.i

Sample Info: 12481970121960459121SVHF111LANL

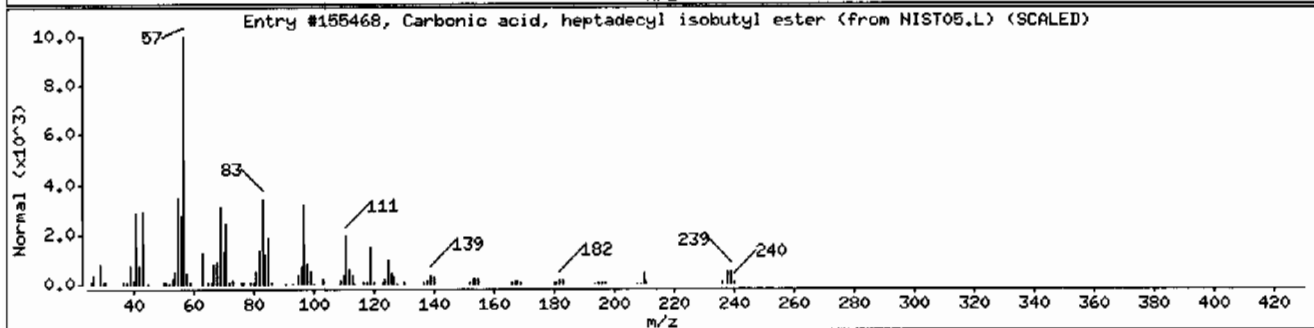
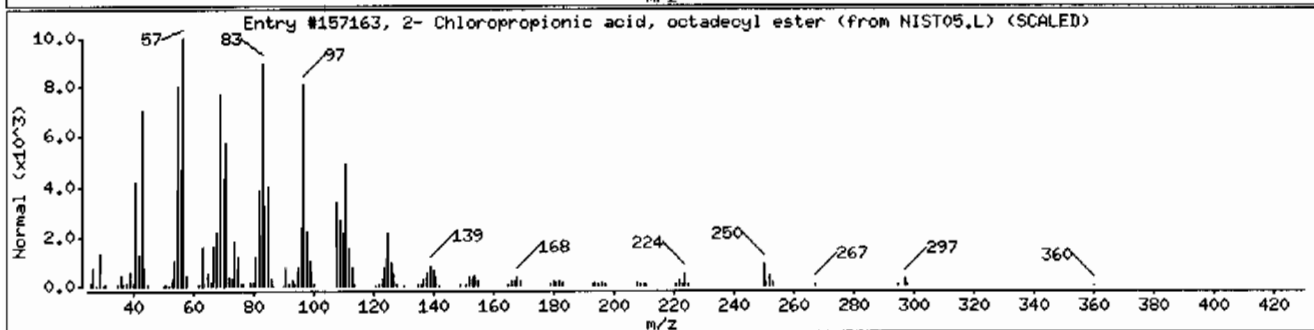
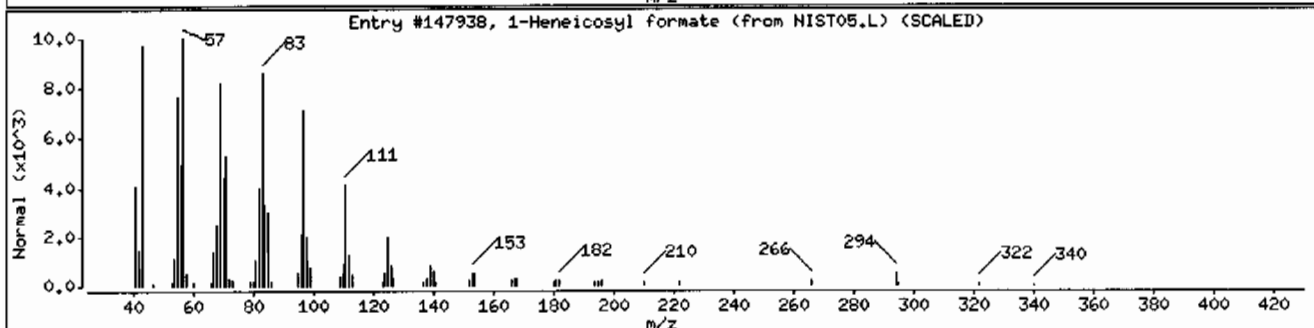
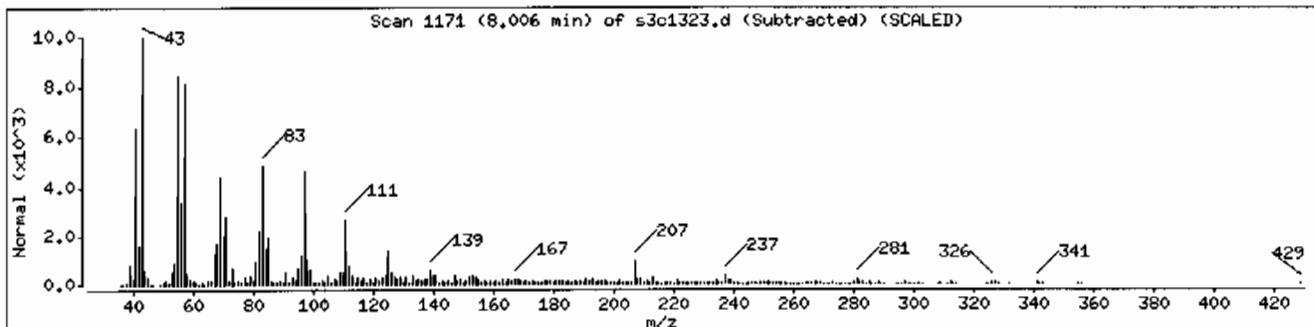
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Heneicosyl formate	77899-03-7	NIST05.L	147938	90	C22H44O2	340
2- Chloropropionic acid, octadecyl ester	88104-31-8	NIST05.L	157163	90	C21H41ClO2	360
Carbonic acid, heptadecyl isobutyl ester	1000314-61-4	NIST05.L	155468	90	C22H44O3	356



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF11ILANL

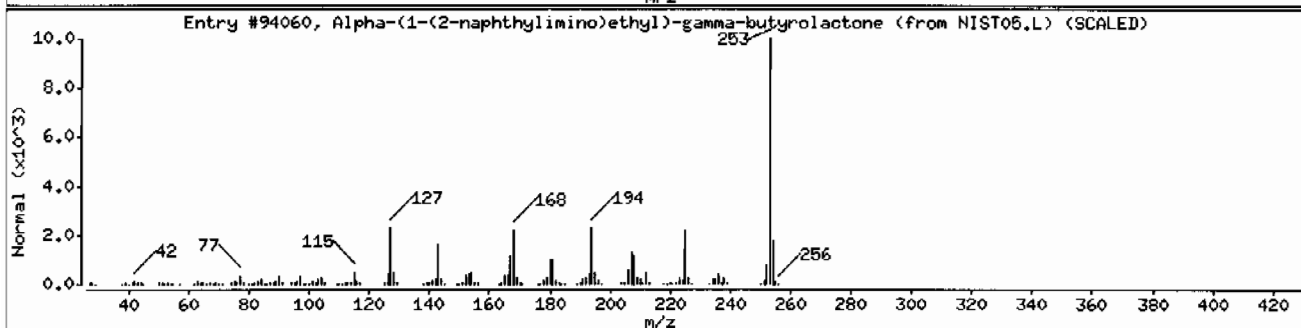
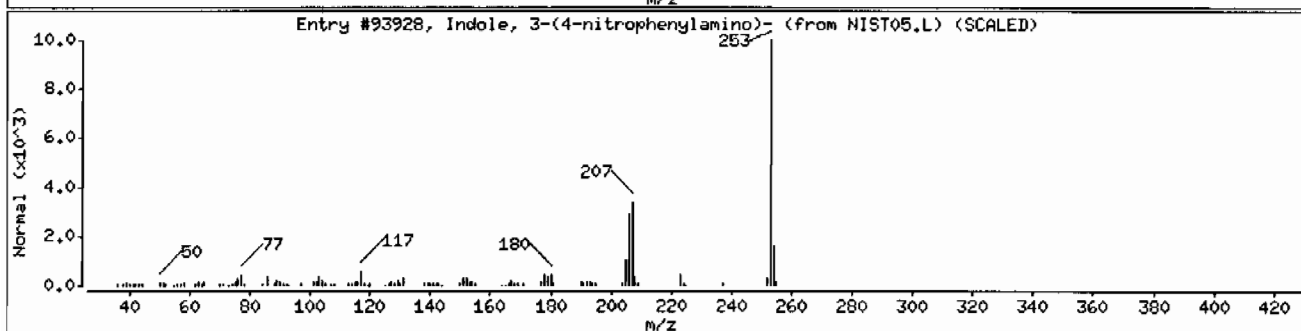
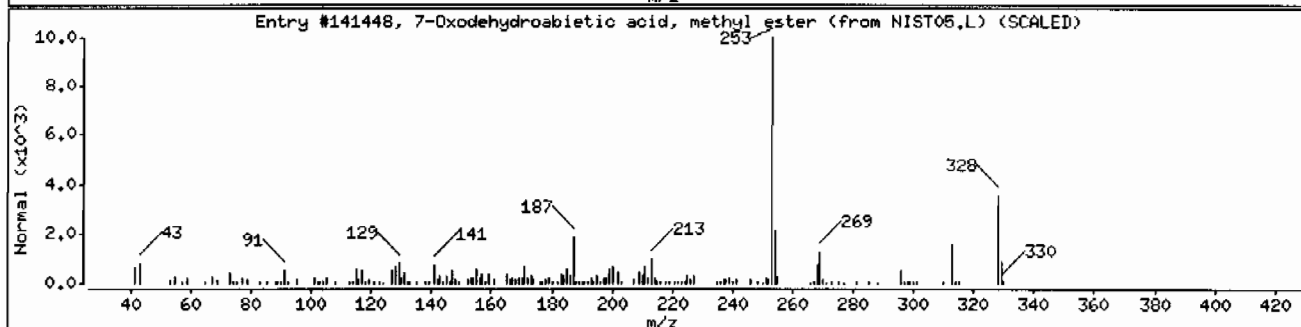
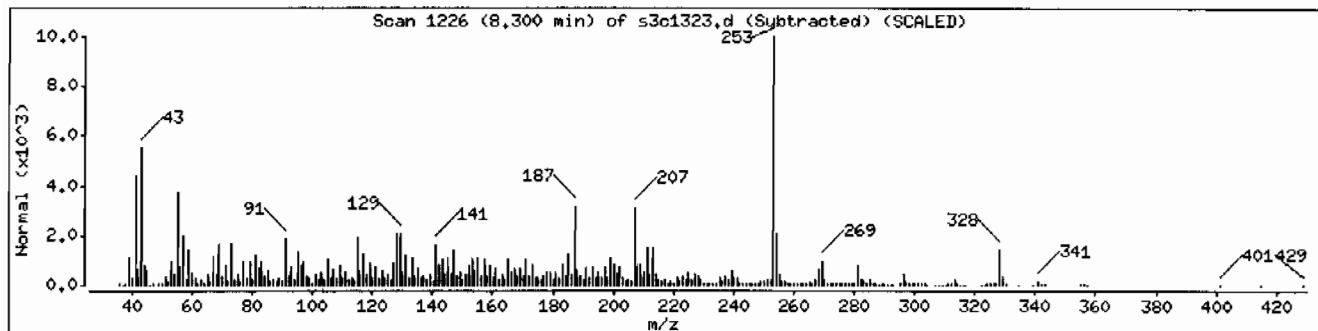
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7-Oxodehydroabietic acid, methyl ester	110936-78-2	NIST05.L	141448	92	C ₂₁ H ₂₈ O ₃	328
Indole, 3-(4-nitrophenylamino)-	167954-19-0	NIST05.L	93928	46	C ₁₄ H ₁₁ N ₃ O ₂	253
Alpha-(1-(2-naphthylimino)ethyl)-gamma-b	1000240-01-3	NIST05.L	94060	38	C ₁₆ H ₁₅ N ₂ O ₂	253



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVMF111LANL

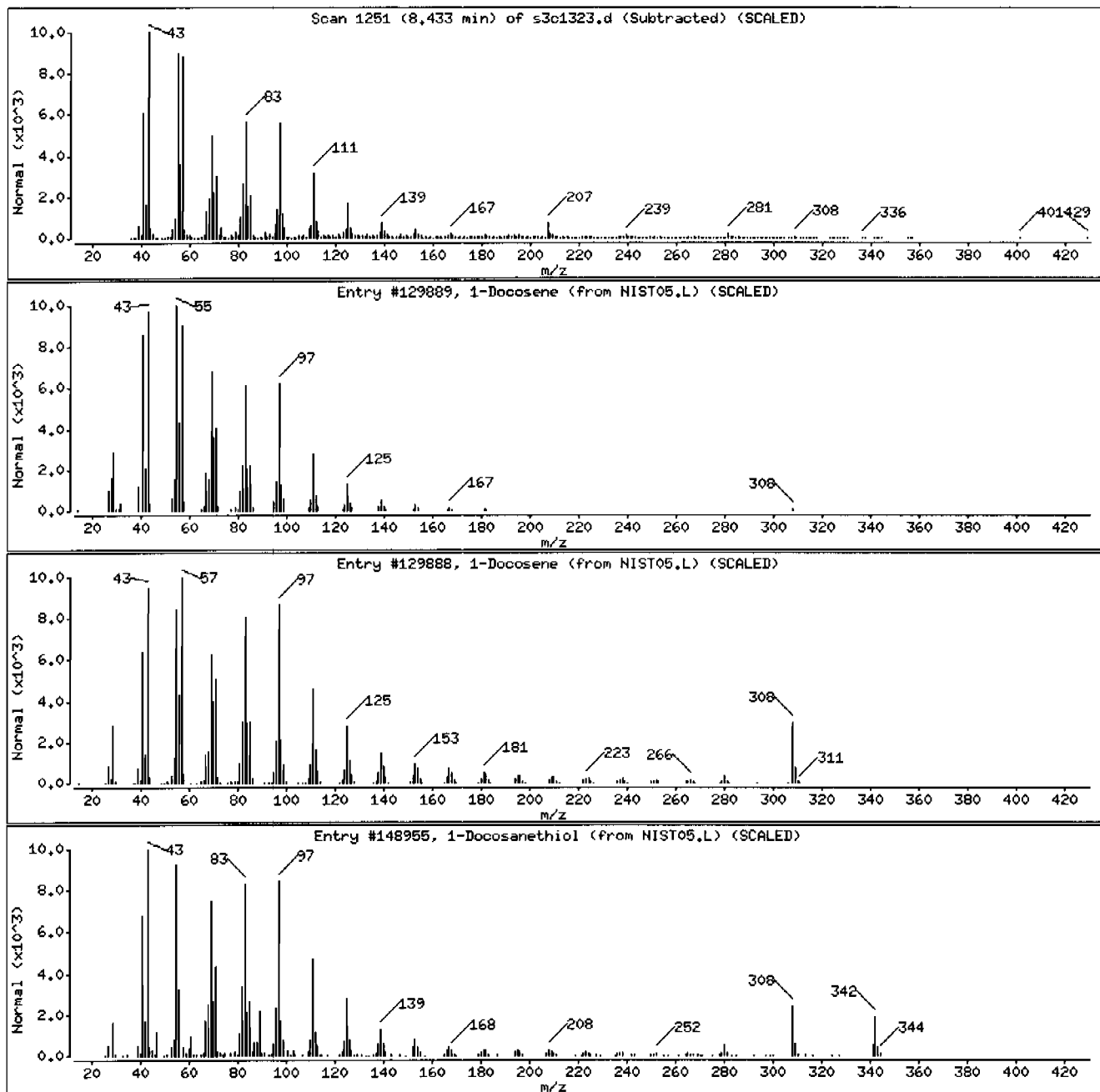
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Docosene	1599-67-3	NIST05.L	129889	97	C22H44	308
1-Docosene	1599-67-3	NIST05.L	129888	95	C22H44	308
1-Docosanethiol	7773-83-3	NIST05.L	148955	91	C22H46S	342



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: HSD3.i

Sample Info: 1248197012196045912ISVMF11ILANL

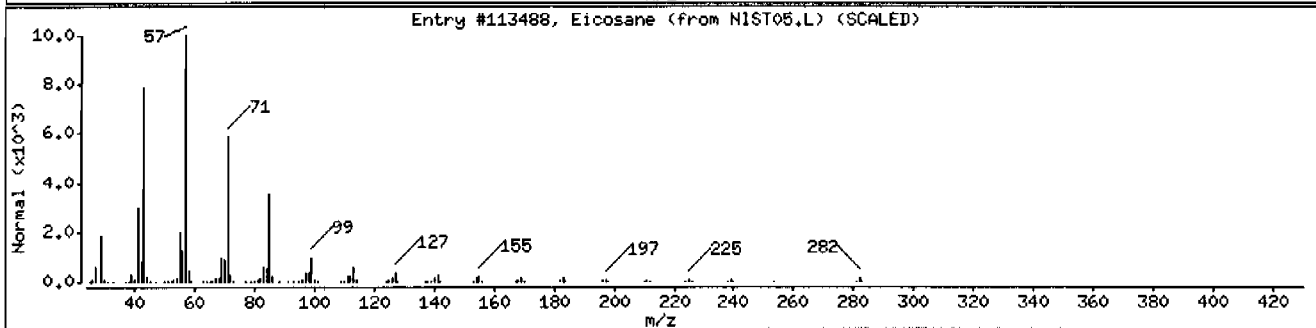
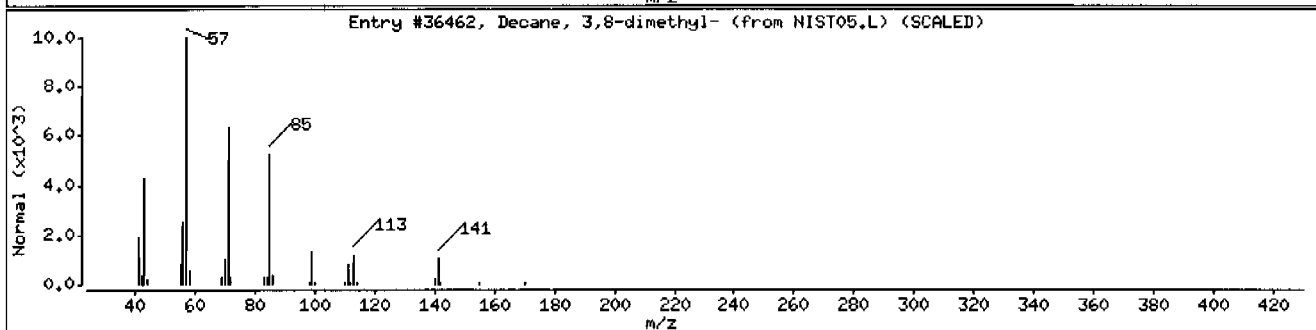
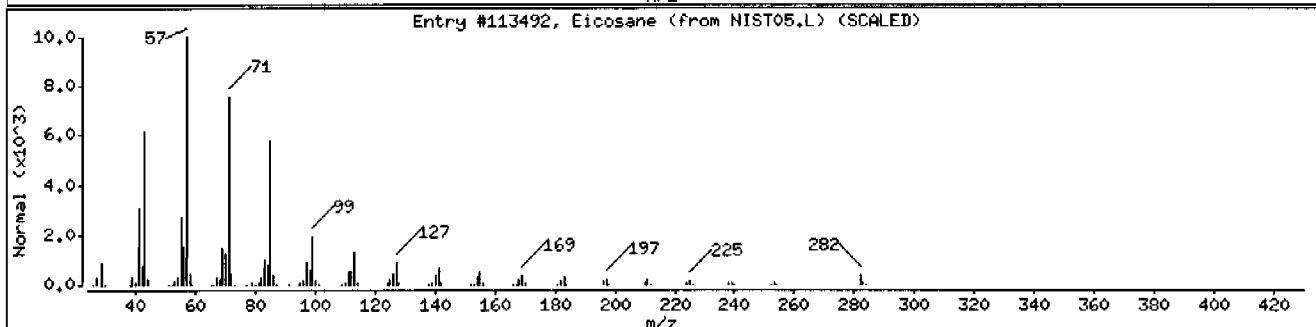
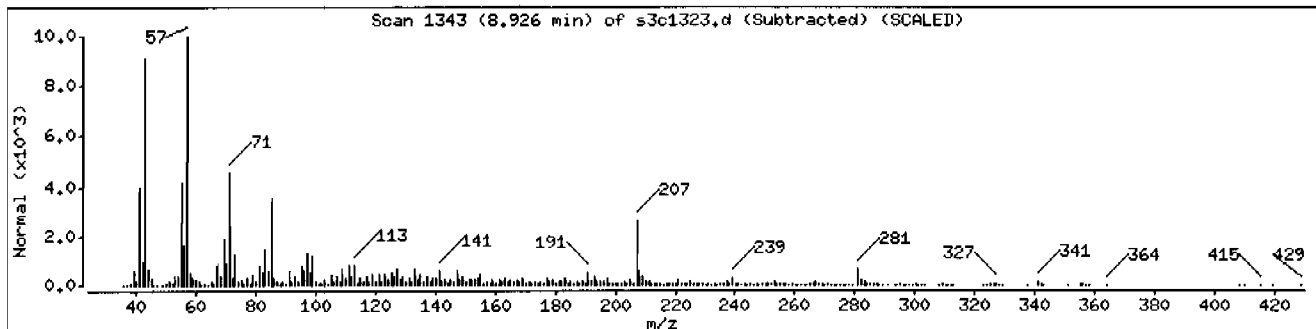
Volume Injected (uL): 0.5

Operator: JLD1

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	96	C20H42	282
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	87	C12H26	170
Eicosane	112-95-8	NIST05.L	113488	70	C20H42	282



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVMF111LANL

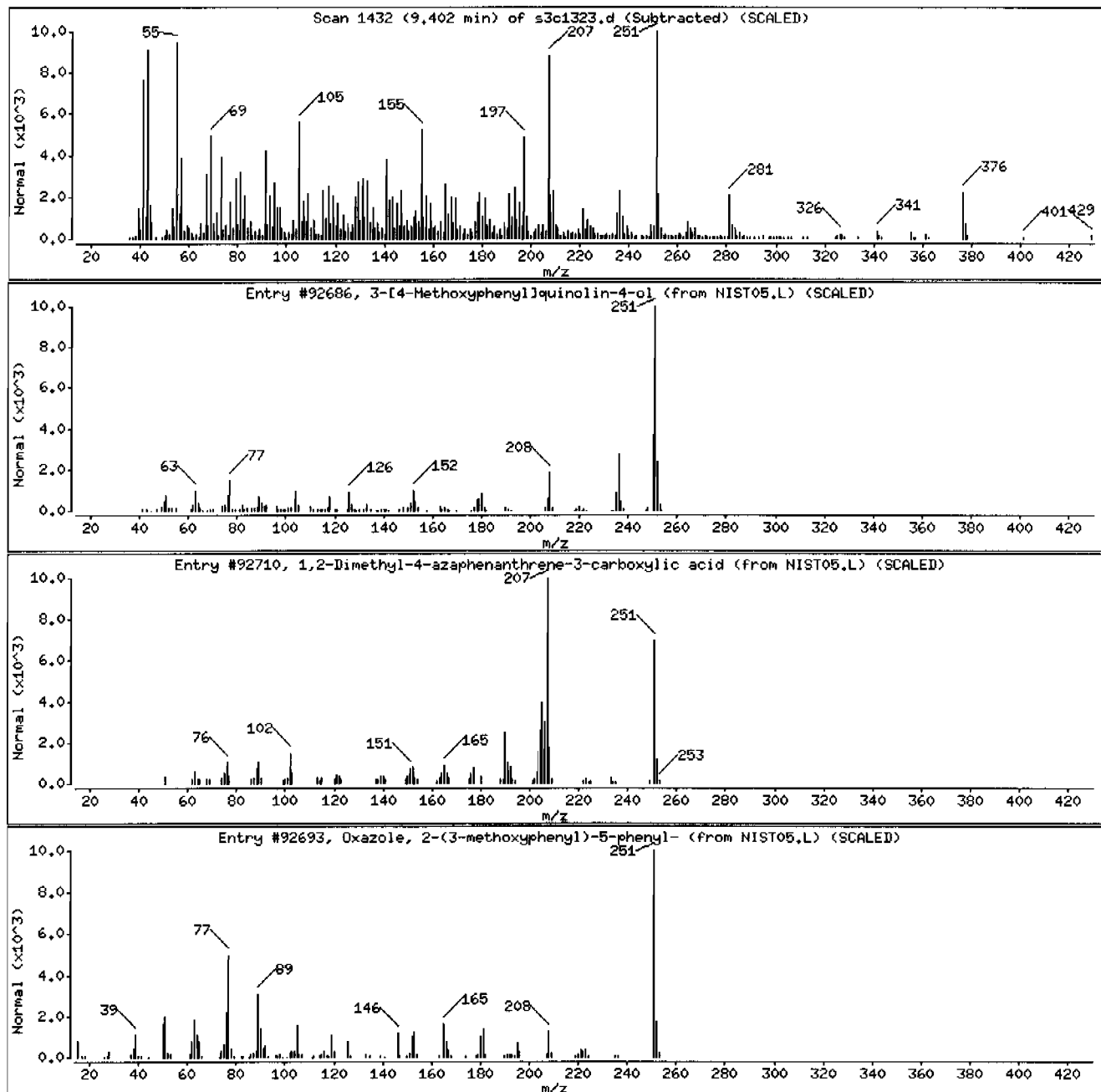
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-[4-Methoxyphenyl]quinolin-4-ol	1000254-66-9	NIST05.L	92686	56	C ₁₆ H ₁₃ N ₂ O ₂	251
1,2-Dimethyl-4-azaphenanthrene-3-carboxy	1000298-84-6	NIST05.L	92710	46	C ₁₆ H ₁₃ N ₂ O ₂	251
Oxazole, 2-(3-methoxyphenyl)-5-phenyl-	38705-20-3	NIST05.L	92693	35	C ₁₆ H ₁₃ N ₂ O ₂	251



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVMF111LANL

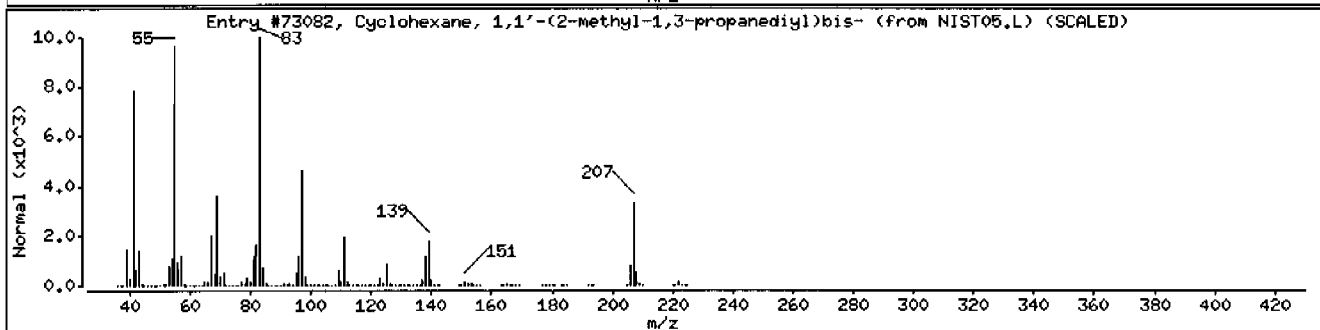
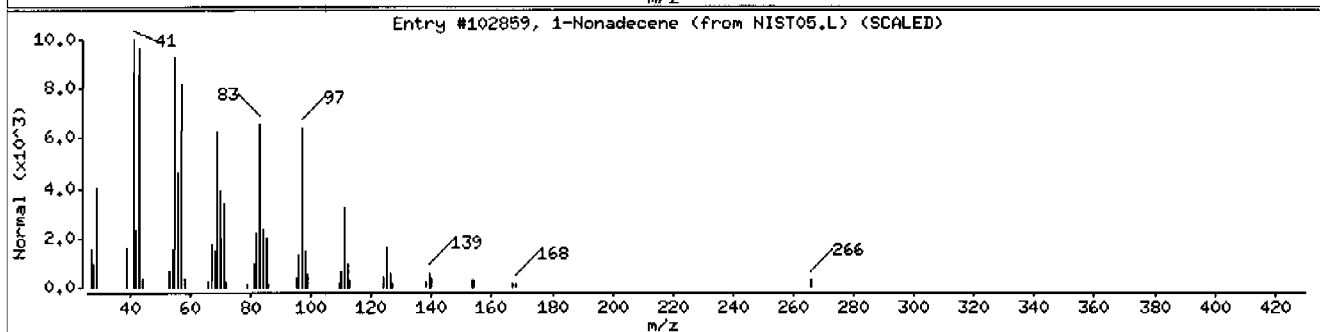
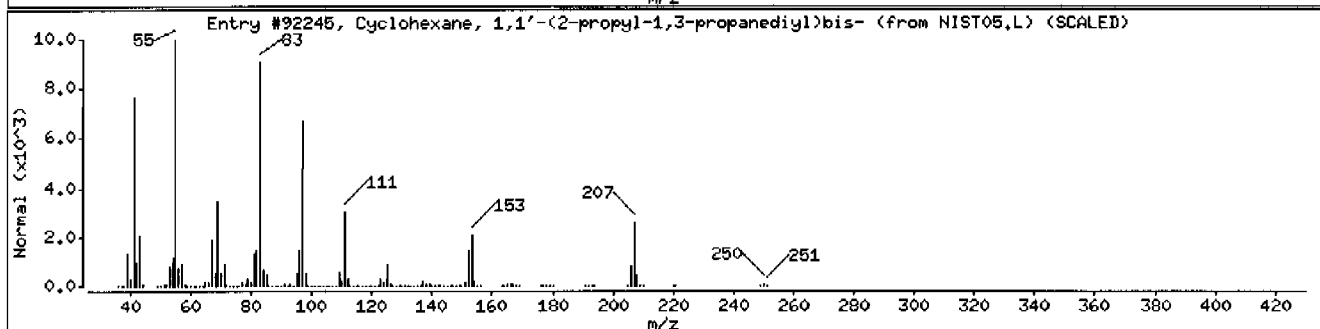
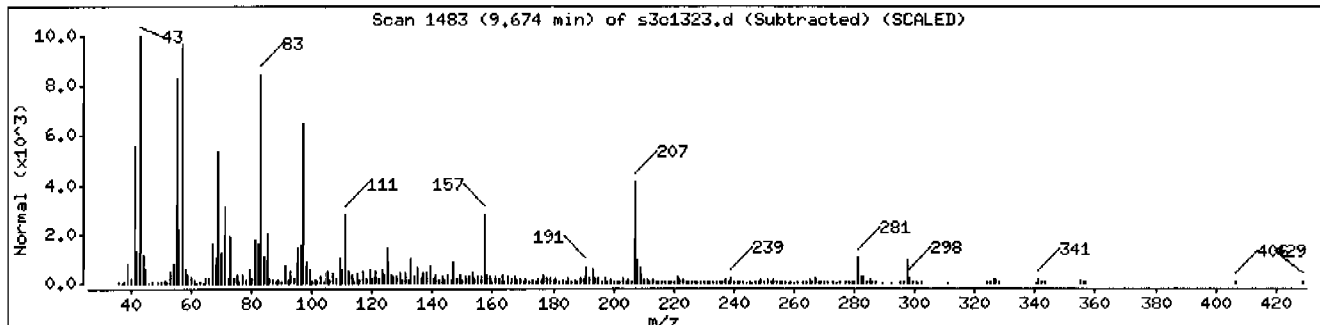
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,1'-(2-propyl-1,3-propanediyl)bis-	55030-21-2	NIST05.L	92245	78	C18H34	250
1-Nonadecene	18435-45-5	NIST05.L	102859	49	C19H38	266
Cyclohexane, 1,1'-(2-methyl-1,3-propanediyl)bis-	2883-08-1	NIST05.L	73082	45	C16H30	222



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF111LANL

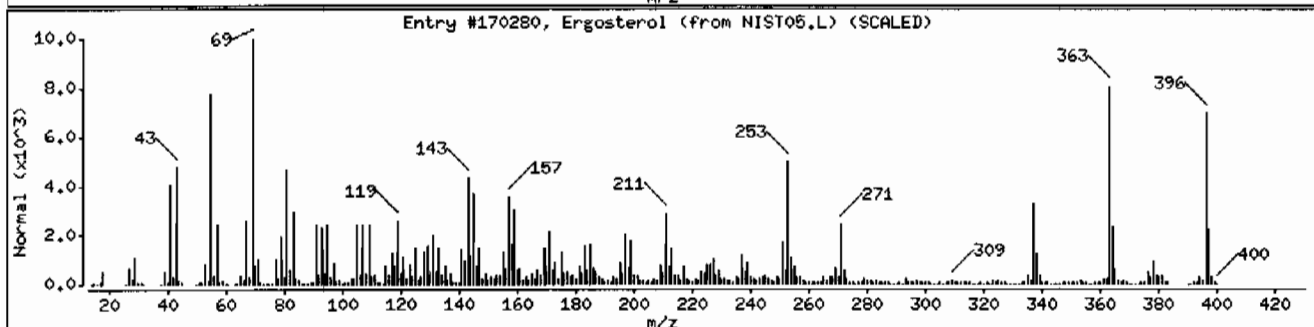
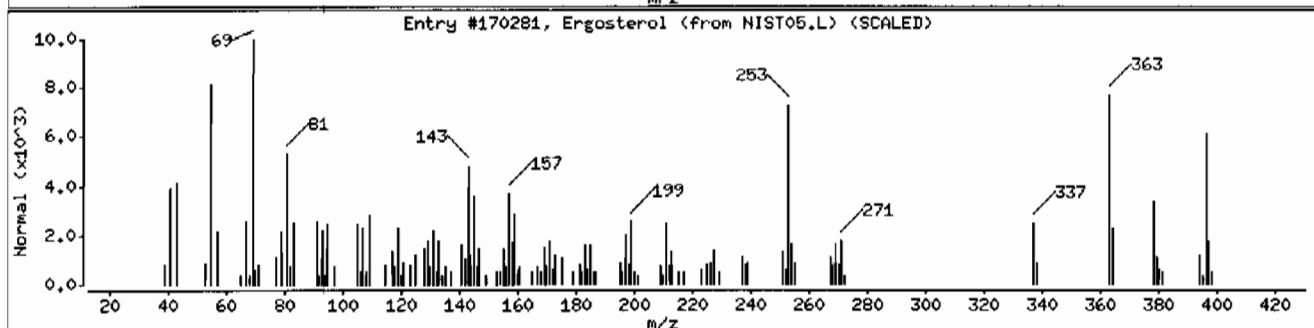
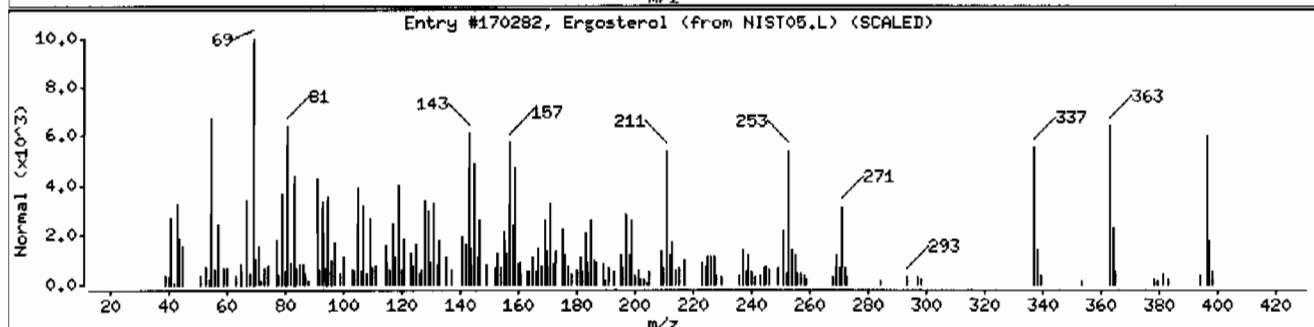
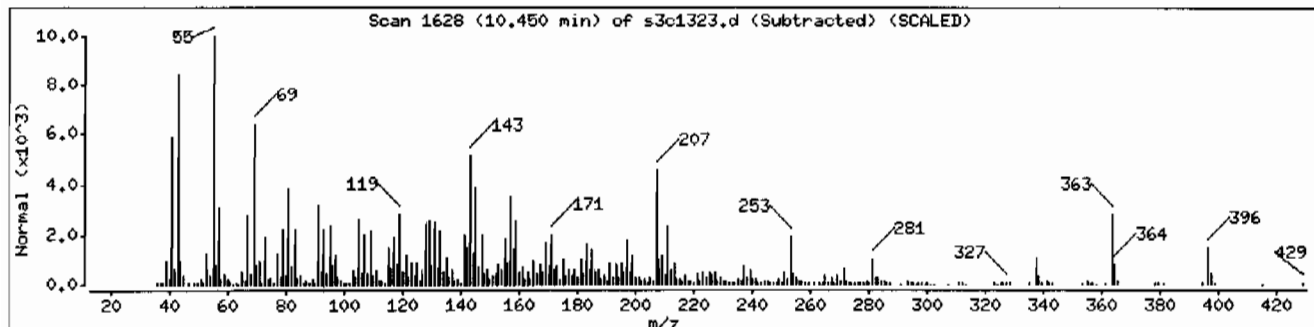
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ergosterol	57-87-4	NIST05.L	170282	96	C ₂₈ H ₄₄ O	396
Ergosterol	57-87-4	NIST05.L	170281	60	C ₂₈ H ₄₄ O	396
Ergosterol	57-87-4	NIST05.L	170280	53	C ₂₈ H ₄₄ O	396



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 1248197012196045912ISVMF111LANL

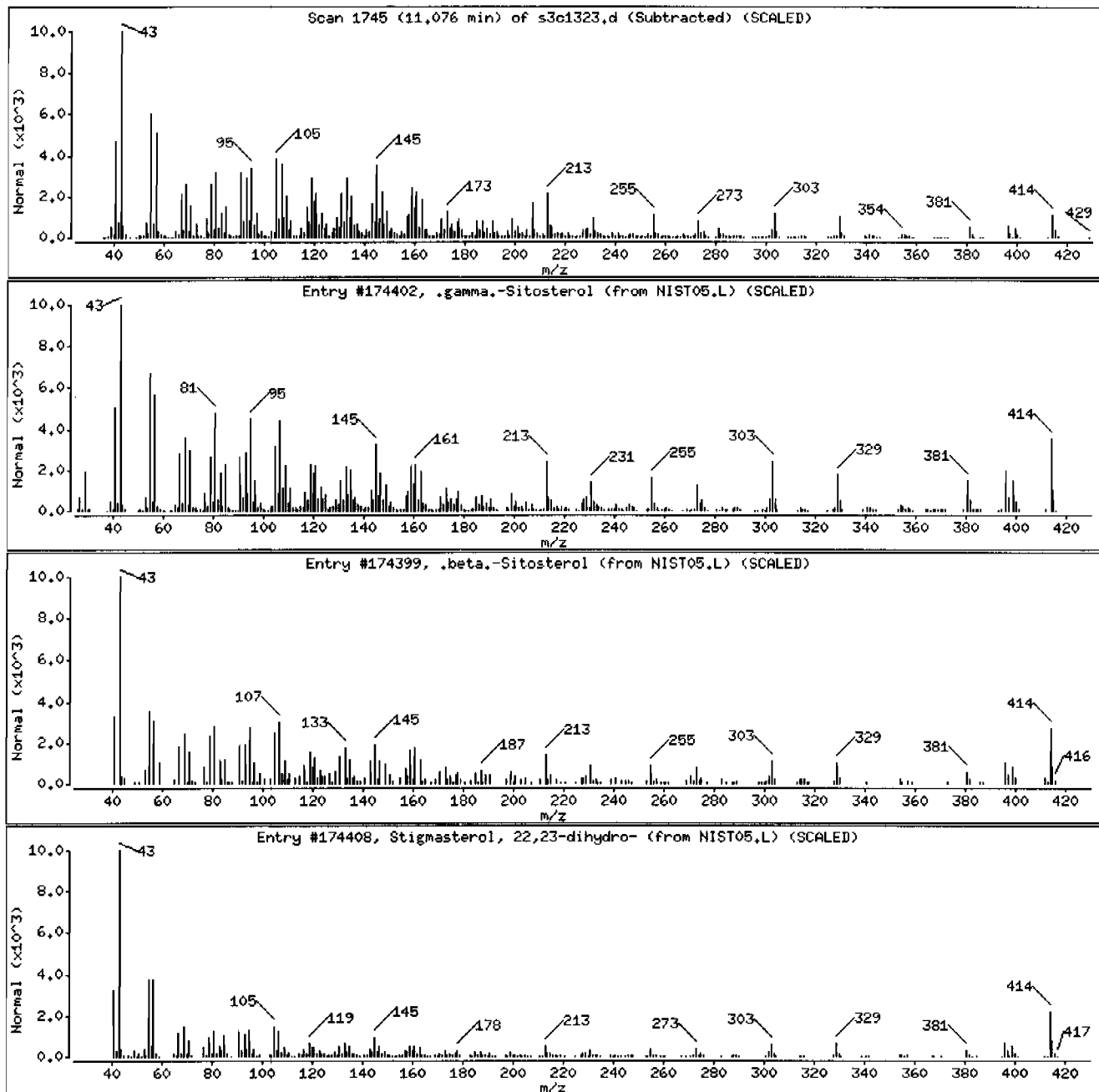
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	95	C29H50O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	95	C29H50O	414
Stigmasterol, 22,23-dihydro-	1000214-20-7	NIST05.L	174408	93	C29H50O	414



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF11|LANL

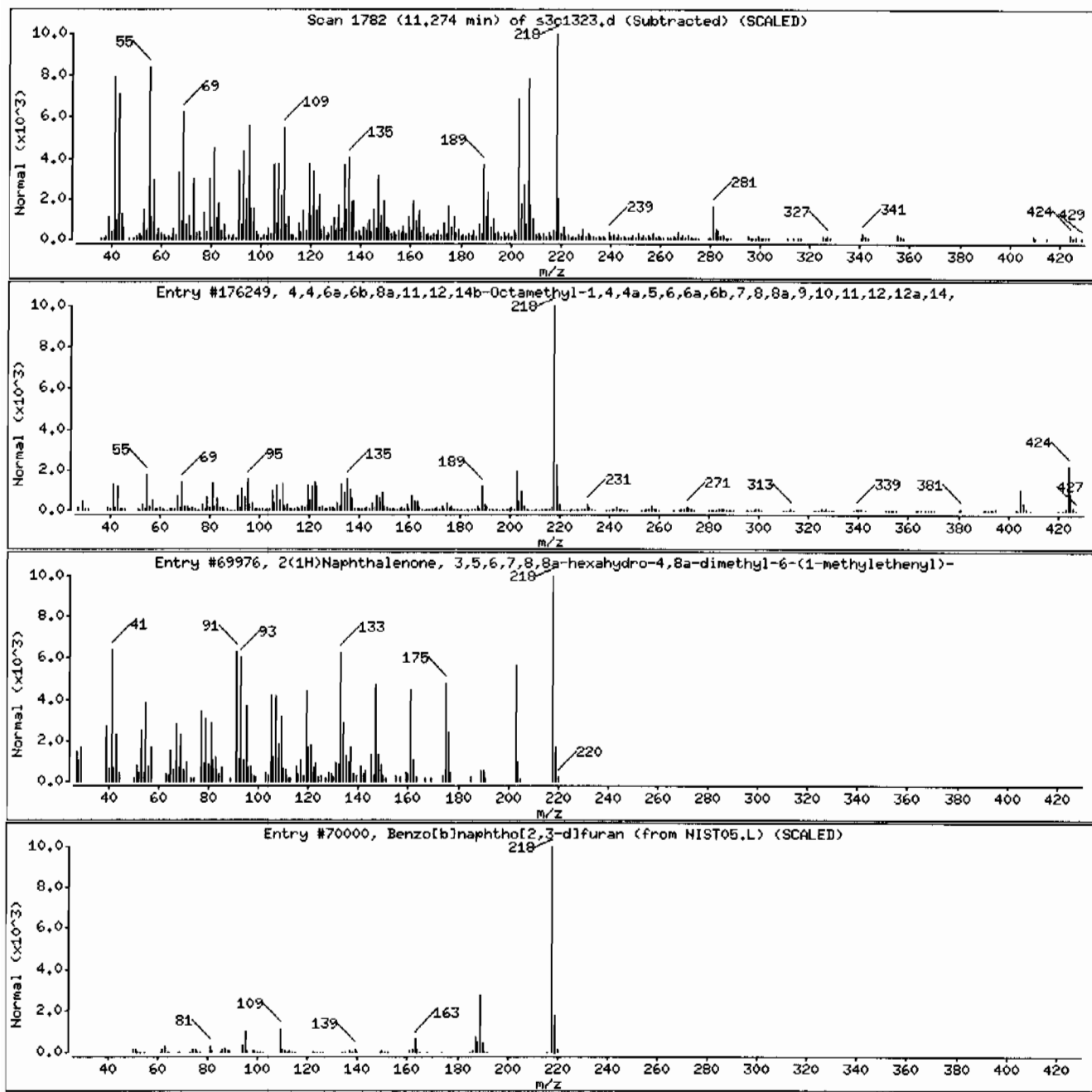
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4,4,6a,6b,8a,11,12,14b-Octamethyl-1,4,4a	1000194-64-2	NIST05.L	176249	60	C30H48O	424
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	53	C15H22O	218
Benzo[b]naphtho[2,3-d]furan	243-42-5	NIST05.L	70000	52	C16H10O	218



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF111LANL

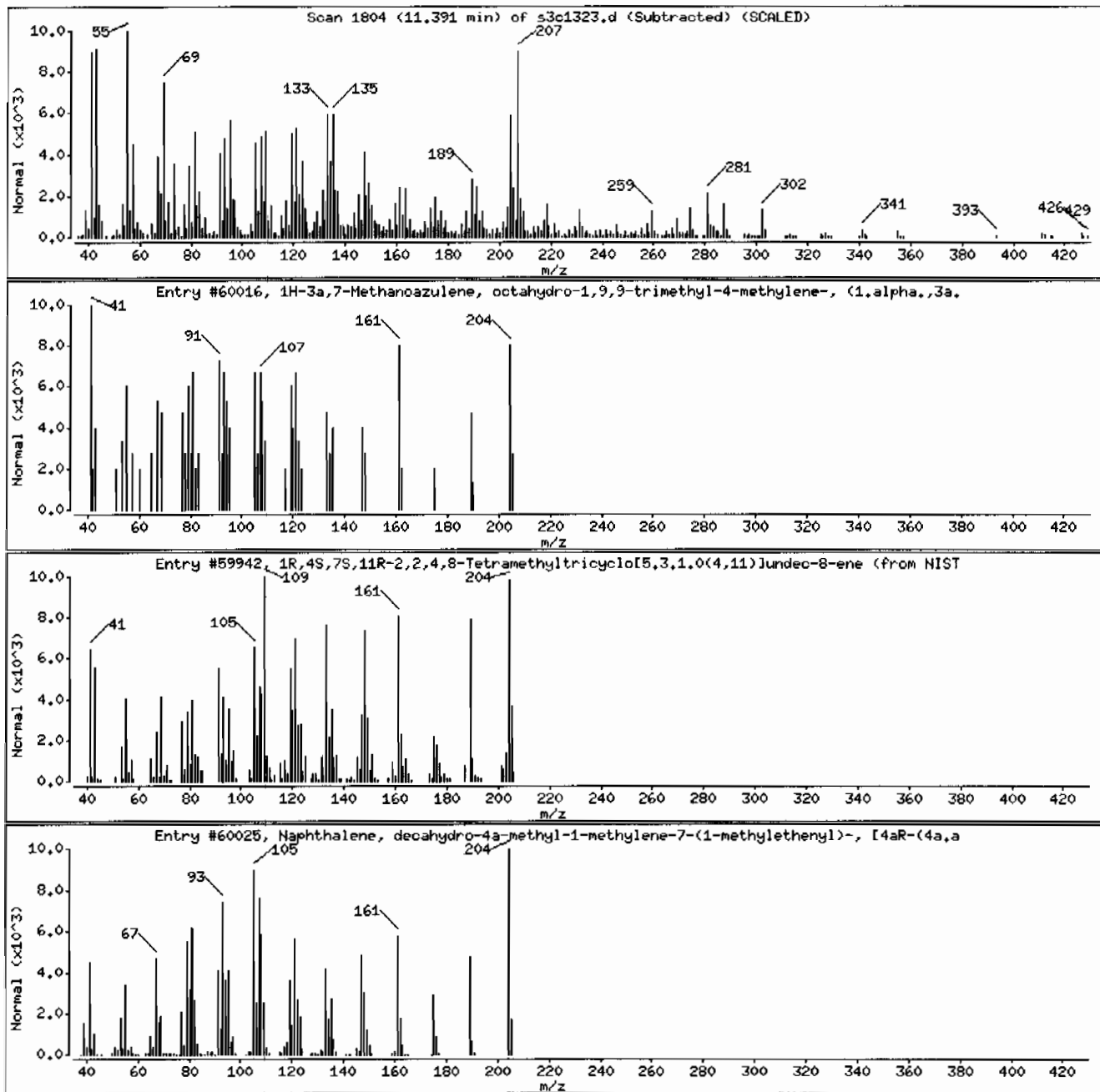
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5HS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-3a,7-Methanoazulene, octahydro-1,9,9-	508-55-4	NIST05.L	60016	43	C15H24	204
1R,4S,7S,11R-2,2,4,8-Tetramethyltricyclo	1000140-07-6	NIST05.L	59942	38	C15H24	204
Naphthalene, decahydro-4a-methyl-1-methyl	17066-67-0	NIST05.L	60025	38	C15H24	204



Date : 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3,i

Sample Info: 12481970121960459121SVMF111LANL

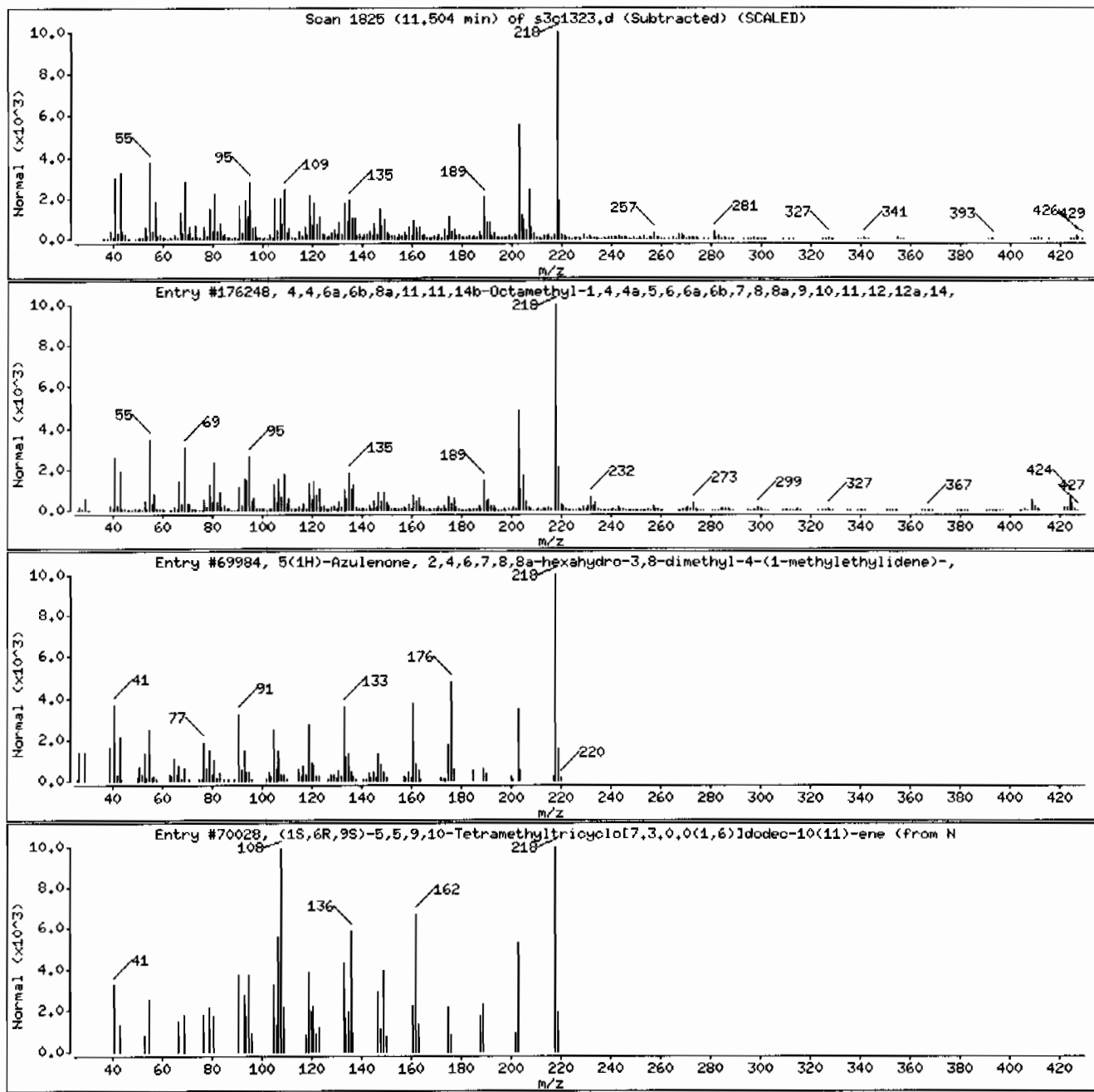
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4,4,6a,6b,8a,11,11,14b-Octamethyl-1,4,4a	1000194-62-4	NIST05.L	176248	58	C30H48O	424
5(1H)-Azulenone, 2,4,6,7,8,8a-hexahydro-	6754-66-1	NIST05.L	69984	53	C15H22O	218
(1S,6R,9S)-5,5,9,10-Tetramethyltricyclo[	1000298-97-8	NIST05.L	70028	52	C16H26	218



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVHF111LANL

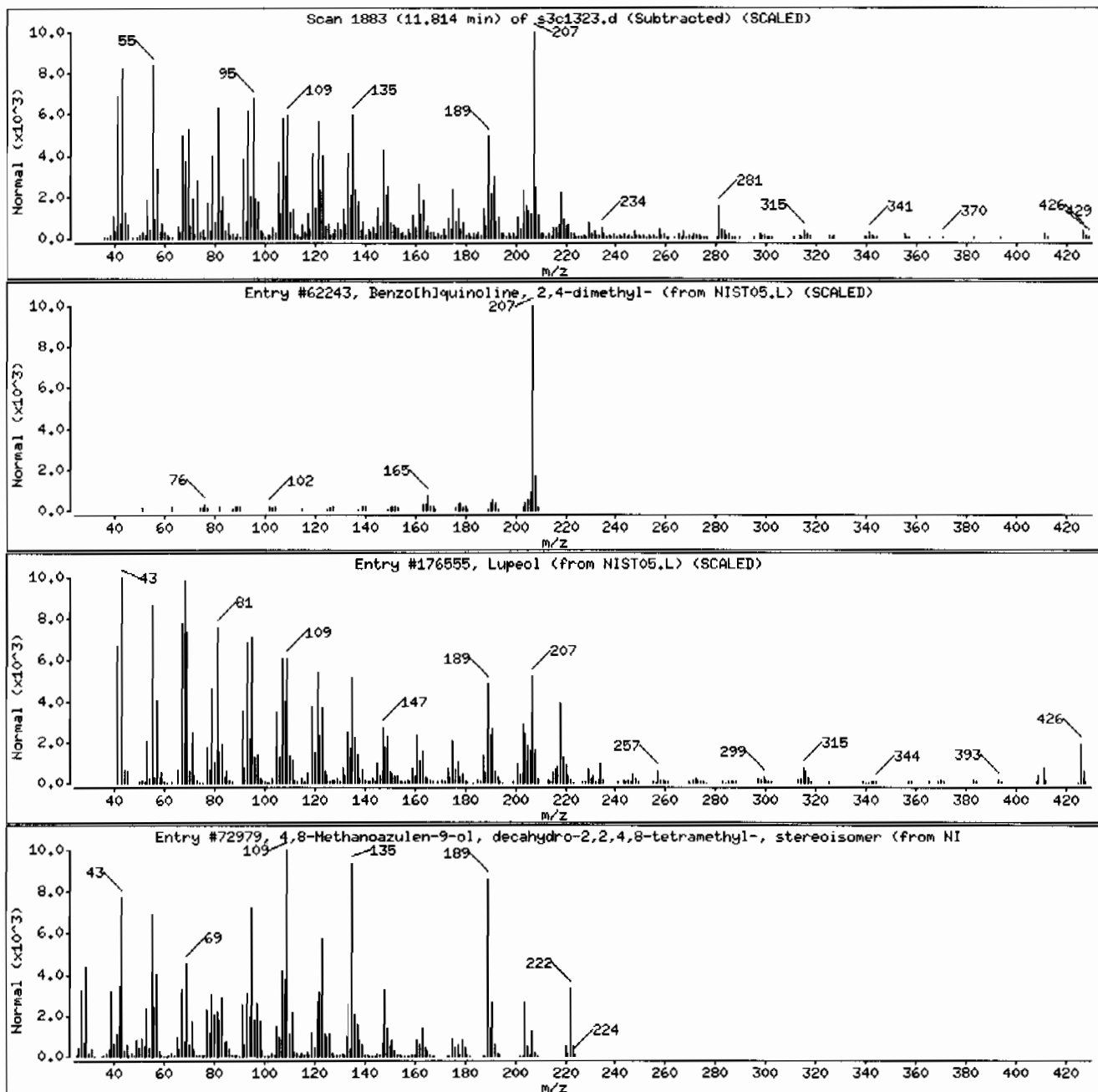
Volume Injected (uL): 0.5

Operator: JLD1

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	62243	46	C15H13N	207
Lupeol	545-47-1	NIST05.L	176555	41	C30H50O	426
4,8-Methanoazulen-9-ol, decahydro-2,2,4,	4586-22-5	NIST05.L	72979	38	C15H26O	222



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 124819701219604591215VMF111LANL

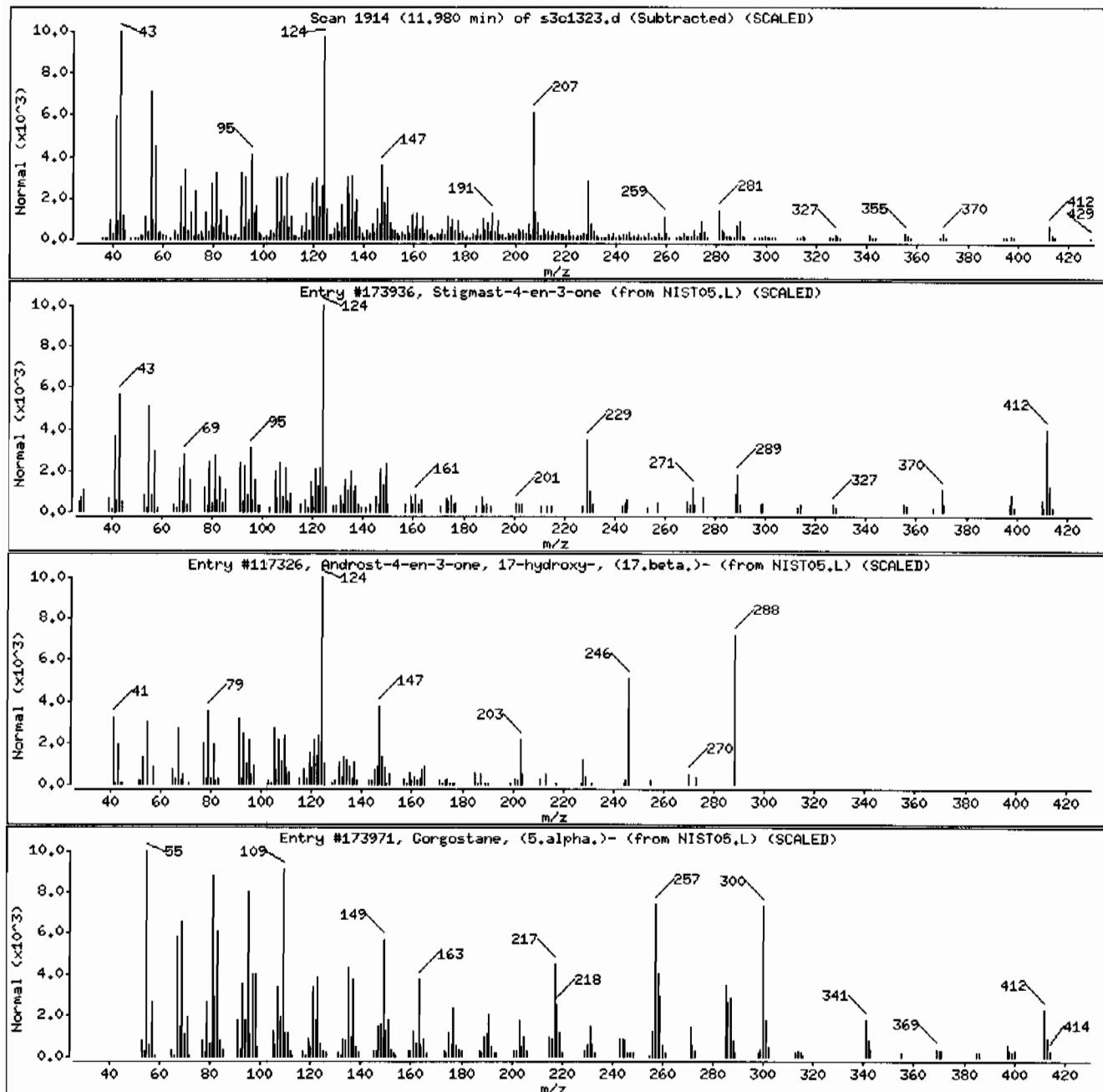
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	91	C29H48O	412
Androst-4-en-3-one, 17-hydroxy-, (17 β)	58-22-0	NIST05.L	117326	60	C19H28O2	288
Gorgostane, (5 α)-	56143-37-4	NIST05.L	173971	53	C30H52	412



Date: 13-MAR-2010 18:13

Client ID: RE36-10-7429

Instrument: MSD3.i

Sample Info: 12481970121960459121SVMF111LANL

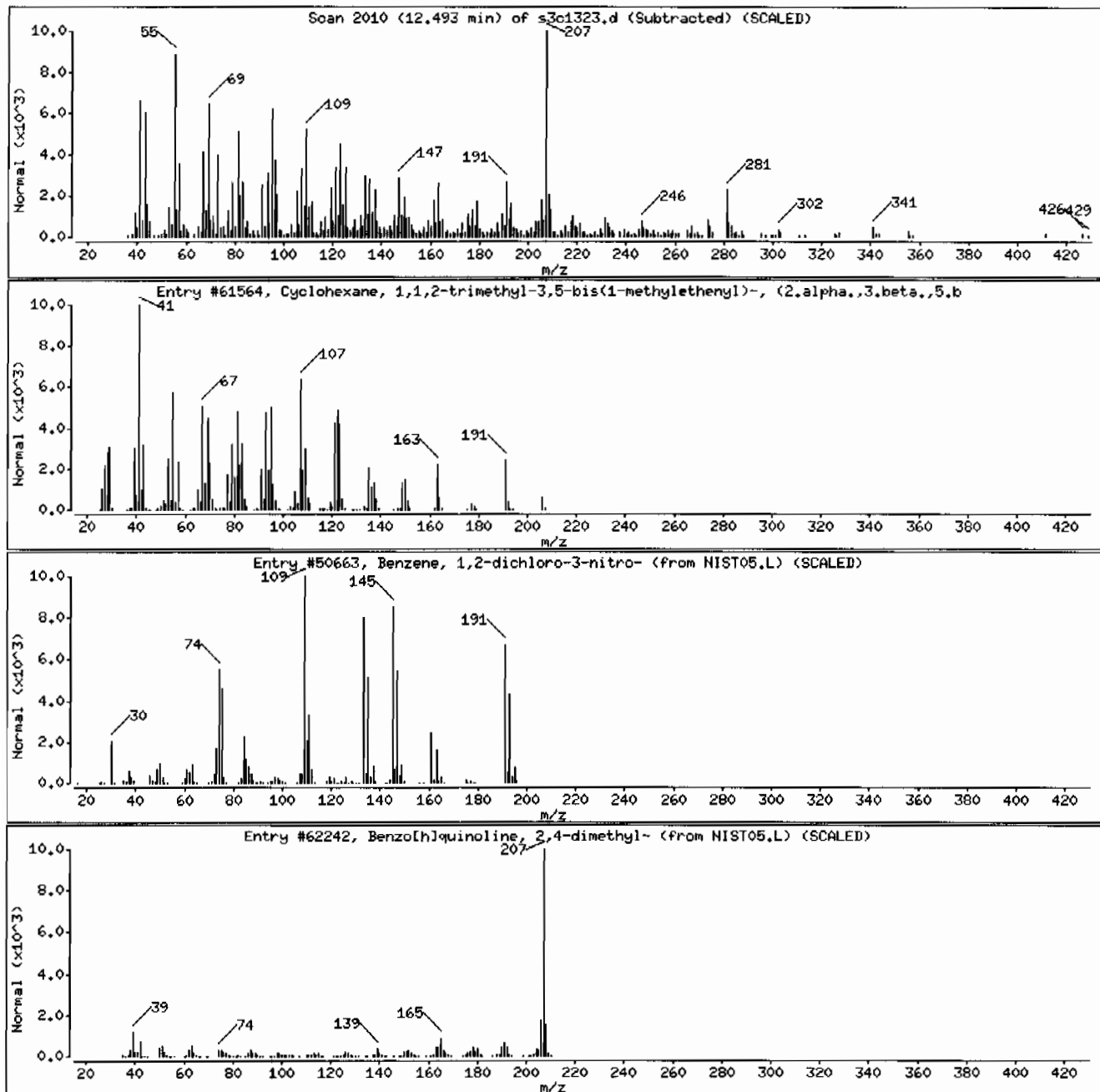
Volume Injected (ul): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,1,2-trimethyl-3,5-bis(1-m	62337-97-7	NIST05.L	61564	45	C15H26	206
Benzene, 1,2-dichloro-3-nitro-	3209-22-1	NIST05.L	50663	44	C6H3Cl2NO2	191
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62242	38	C15H13N	207



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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7431
Batch ID: 960459
Run Date: 03/13/2010 21:07
Prep Date: 03/03/2010 23:09
Data File: s3c1332.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	1730	ug/kg	346	1730
108-95-2	Phenol	U	1730	ug/kg	346	1730
95-57-8	2-Chlorophenol	U	1730	ug/kg	346	1730
106-46-7	1,4-Dichlorobenzene	U	1730	ug/kg	346	1730
621-64-7	N-Nitrosodipropylamine	U	1730	ug/kg	346	1730
59-50-7	4-Chloro-3-methylphenol	U	1730	ug/kg	346	1730
83-32-9	Acenaphthene		3430	ug/kg	57.0	173
121-14-2	2,4-Dinitrotoluene	U	1730	ug/kg	173	1730
100-02-7	4-Nitrophenol	U	1730	ug/kg	570	1730
87-86-5	Pentachlorophenol	U	1730	ug/kg	432	1730
110-86-1	Pyridine	U	1730	ug/kg	346	1730
62-53-3	Aniline	U	1730	ug/kg	518	1730
111-44-4	bis(2-Chloroethyl) ether	U	1730	ug/kg	346	1730
541-73-1	1,3-Dichlorobenzene	U	1730	ug/kg	346	1730
100-51-6	Benzyl alcohol	U	1730	ug/kg	518	1730
95-50-1	1,2-Dichlorobenzene	U	1730	ug/kg	346	1730
108-60-1	bis(2-Chloroisopropyl)ether	U	1730	ug/kg	346	1730
95-48-7	o-Cresol	U	1730	ug/kg	346	1730
65794-96-9	m,p-Cresols	U	1730	ug/kg	518	1730
67-72-1	Hexachloroethane	U	1730	ug/kg	346	1730
98-95-3	Nitrobenzene	U	1730	ug/kg	346	1730
78-59-1	Isophorone	U	1730	ug/kg	346	1730
88-75-5	2-Nitrophenol	U	1730	ug/kg	346	1730
105-67-9	2,4-Dimethylphenol	U	1730	ug/kg	605	1730
111-91-1	bis(2-Chloroethoxy)methane	U	1730	ug/kg	346	1730
120-83-2	2,4-Dichlorophenol	U	1730	ug/kg	346	1730
65-85-0	Benzoic acid	U	3460	ug/kg	864	3460
91-20-3	Naphthalene		2670	ug/kg	51.8	173
106-47-8	4-Chloroaniline	U	1730	ug/kg	346	1730
87-68-3	Hexachlorobutadiene	U	1730	ug/kg	346	1730
91-57-6	2-Methylnaphthalene		1300	ug/kg	34.6	173
77-47-4	Hexachlorocyclopentadiene	U	1730	ug/kg	346	1730
88-06-2	2,4,6-Trichlorophenol	U	1730	ug/kg	346	1730
95-95-4	2,4,5-Trichlorophenol	U	1730	ug/kg	346	1730
91-58-7	2-Chloronaphthalene	U	173	ug/kg	57.0	173
88-74-4	2-Nitroaniline	U	1730	ug/kg	346	1730
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	1730	ug/kg	346	1730
	<i>m</i> -Nitroaniline					

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197009	Date Received: 02/26/2010 08:45	%Moisture: 23
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7431	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.1	Dilution: 4
Run Date: 03/13/2010 21:07	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.08 g	Final Volume: 1 mL
Data File: s3c1332.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	Dimethylphthalate	U	1730	ug/kg	346	1730
606-20-2	2,6-Dinitrotoluene	U	1730	ug/kg	173	1730
208-96-8	Acenaphthylene	J	63.8	ug/kg	51.8	173
51-28-5	2,4-Dinitrophenol	U	3460	ug/kg	657	3460
132-64-9	Dibenzofuran		2940	ug/kg	346	1730
84-66-2	Diethylphthalate	U	1730	ug/kg	346	1730
86-73-7	Fluorene		4000	ug/kg	51.8	173
7005-72-3	4-Chlorophenylphenylether	U	1730	ug/kg	346	1730
534-52-1	2-Methyl-4,6-dinitrophenol	U	1730	ug/kg	346	1730
100-01-6	4-Nitroaniline	U	1730	ug/kg	518	1730
	<i>p-Nitroaniline</i>					
122-39-4	Diphenylamine	U	1730	ug/kg	346	1730
122-66-7	Azobenzene	U	1730	ug/kg	346	1730
	<i>1,2-Diphenylhydrazine</i>					
101-55-3	4-Bromophenylphenylether	U	1730	ug/kg	346	1730
118-74-1	Hexachlorobenzene	U	1730	ug/kg	346	1730
120-12-7	Anthracene		5030	ug/kg	34.6	173
84-74-2	Di-n-butylphthalate	J	377	ug/kg	346	1730
85-68-7	Butylbenzylphthalate	U	1730	ug/kg	346	1730
56-55-3	Benzo(a)anthracene		11400	ug/kg	51.8	173
91-94-1	3,3'-Dichlorobenzidine	U	1730	ug/kg	518	1730
218-01-9	Chrysene		12300	ug/kg	51.8	173
117-81-7	bis(2-Ethylhexyl)phthalate	J	436	ug/kg	346	1730
117-84-0	Di-n-octylphthalate	U	1730	ug/kg	346	1730
205-99-2	Benzo(b)fluoranthene		19600	ug/kg	51.8	173
207-08-9	Benzo(k)fluoranthene	U	173	ug/kg	51.8	173
50-32-8	Benzo(a)pyrene		10100	ug/kg	51.8	173
193-39-5	Indeno(1,2,3-cd)pyrene		4650	ug/kg	51.8	173
53-70-3	Dibenzo(a,h)anthracene	U	173	ug/kg	51.8	173
191-24-2	Benzo(ghi)perylene		4880	ug/kg	51.8	173
120-82-1	1,2,4-Trichlorobenzene	U	1730	ug/kg	346	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
244-99-5	5H-Indeno[1,2-b]pyridine	6.73	807	ug/kg	96	NJ
	Unknown	6.98	1330	ug/kg		J
84-65-1	9,10-Anthracenedione	7.1	1040	ug/kg	98	NJ
2381-21-7	Pyrene, 1-methyl-	7.58	1450	ug/kg	96	NJ
243-17-4	11H-Benzo[b]fluorene	7.65	2610	ug/kg	96	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 4
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
	Unknown	7.68	1350	ug/kg		J
3442-78-2	Pyrene, 2-methyl-	7.71	2320	ug/kg	95	NJ
	Unknown	7.78	1170	ug/kg		J
479-79-8	11H-Benzo[a]fluoren-11-one	7.94	1700	ug/kg	97	NJ
479-79-8	11H-Benzo[a]fluoren-11-one	8.07	1250	ug/kg	97	NJ
239-01-0	11H-Benzo[a]carbazole	8.32	1450	ug/kg	80	NJ
71949-03-6	4b,10b-Dihydro-4b,10b-methanochrysene	8.41	1380	ug/kg	86	NJ
1482-93-5	Cyclohexane, hexaethylidene-	8.54	1560	ug/kg	90	NJ
	Unknown	8.85	6360	ug/kg		J
629-92-5	Nonadecane	8.93	3670	ug/kg	95	NJ
198-55-0	Perylene	9.24	5200	ug/kg	99	NJ
112-95-8	Eicosane	9.61	3800	ug/kg	97	NJ

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1332.d
Lab Smp Id: 248197009 Client Smp ID: RE36-10-7431
Inj Date : 13-MAR-2010 21:07
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197009|960459|4|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 32
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	4.00000	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	23.03650	% 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	3.475	3.473	(1.000)	637319	40.0000	
* 29 Naphthalene-d8		136	4.326	4.329	(1.000)	2445071	40.0000	
* 46 Acenaphthene-d10		164	5.566	5.570	(1.000)	1287465	40.0000	
* 67 Phenanthrene-d10		188	6.593	6.592	(1.000)	2144919	40.0000	
* 91 Chrysene-d12		240	8.177	8.169	(1.000)	1080018	40.0000	
* 98 Perylene-d12		264	9.337	9.330	(1.000)	513714	40.0000	
\$ 3 2-Fluorophenol		112	2.684	2.682	(0.772)	209016	14.5935	2520
\$ 5 Phenol-d5		99	3.208	3.206	(0.923)	245082	14.5651	2520
\$ 20 Nitrobenzene-d5		82	3.833	3.837	(0.886)	110595	7.94542	1370
\$ 39 2-Fluorobiphenyl		172	5.069	5.073	(0.911)	252951	7.72230	1330
\$ 60 2,4,6-Tribromophenol		329	6.128	6.126	(1.101)	41946	14.2095	2460
\$ 81 p-Terphenyl-d14		244	7.529	7.522	(0.921)	186672	11.1508	1930

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====		====	==	=====	=====	=====	=====	=====
47 Acenaphthene		154	5.588	5.591	(1.004)	629774	19.8670	3430
79 Pyrene		202	7.476	7.463	(0.914)	5322388	170.192	29400 (A)
30 Naphthalene		128	4.342	4.340	(1.004)	750275	15.4656	2670
34 2-Methylnaphthalene		142	4.818	4.821	(1.114)	237393	7.53476	1300
45 Acenaphthylene		152	5.465	5.468	(0.982)	17780	0.36923	63.8 (a)
49 Dibenzofuran		168	5.711	5.714	(1.026)	683714	17.0397	2940
53 Fluorene		166	5.957	5.960	(1.070)	804774	23.1305	4000
68 Phenanthrene		178	6.615	6.608	(1.003)	7552413	155.440	26800 (A)
69 Anthracene		178	6.642	6.640	(1.007)	1384279	29.0991	5030 (Q)
72 Di-n-butylphthalate		149	6.909	6.912	(1.048)	119920	2.18198	377 (a)
76 Fluoranthene		202	7.337	7.324	(1.113)	6325122	143.720	24800 (A)
89 Benzo (a) anthracene		228	8.166	8.159	(0.999)	1657480	66.0826	11400
92 Chrysene		228	8.193	8.185	(1.002)	1823877	71.1184	12300
93 bis (2-Ethylhexyl) phthalate		149	8.091	8.089	(0.990)	53506	2.52222	436 (a)
95 Benzo (b) fluoranthene		252	8.979	8.966	(0.962)	1478613	113.396	19600
97 Benzo (a) pyrene		252	9.284	9.277	(0.994)	657632	58.7092	10100
99 Indeno (1,2,3-cd) pyrene		276	10.610	10.603	(1.136)	259856	26.9045	4650
101 Benzo (ghi) perylene		276	11.001	10.993	(1.178)	224262	28.2641	4880

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.

ION RATIO REPORT

SV REPORT

Data file: s3c1332.d

Report Date: 03/14/2010 14:36

Lab. ID: 248197009

SampleType: SAMPLE

Injection Date: 13-MAR-2010 21:07

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197009|960459|4|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 4.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Isophorone			CAS#: 78-59-1			
82	110595	3.83	4.00	80-120	100	(T)
138	112	3.91	4.00	0- 55	0	(T)

27 Benzoic acid			CAS#: 65-85-0			
105	663	4.15	4.12	80-120	100	()
122	4113	4.15	4.12	55-115	620	(Q)
77	3830	4.15	4.12	29- 89	578	(Q)

30 Naphthalene			CAS#: 91-20-3			
128	750275	4.34	4.34	80-120	100	()
129	82366	4.34	4.34	0- 42	11	()
127	97235	4.34	4.34	0- 42	13	()

31 4-Chloroaniline			CAS#: 106-47-8			
127	97235	4.34	4.37	80-120	100	()
65	6279	4.33	4.37	0- 56	6	()

34 2-Methylnaphthalene			CAS#: 91-57-6			
142	237393	4.82	4.82	80-120	100	()
141	197821	4.82	4.82	55-115	83	()

43 Dimethylphthalate			CAS#: 131-11-3			
163	235076	5.57	5.35	80-120	100	(T)
164	1286841	5.57	5.35	0- 40	547	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
44	2,6-Dinitrotoluene			CAS#: 606-20-2		
165	183338	5.57	5.40	80-120	100	(T)
63	56424	5.59	5.40	49-109	31	(QT)
<hr/>						
45	Acenaphthylene			CAS#: 208-96-8		
152	17780	5.46	5.47	80-120	100	()
151	3888	5.46	5.47	0- 50	22	()
153	7273	5.40	5.47	0- 43	41	(T)
<hr/>						
47	Acenaphthene			CAS#: 83-32-9		
154	629774	5.59	5.59	80-120	100	()
153	685077	5.59	5.59	71-131	109	()
152	319985	5.59	5.59	18- 78	51	()
<hr/>						
48	2,4-Dinitrophenol			CAS#: 51-28-5		
184	109	5.76	5.61	80-120	100	(T)
154	8191	5.72	5.59	1081-1141	7461	(QT)
<hr/>						
49	Dibenzofuran			CAS#: 132-64-9		
168	683714	5.71	5.71	80-120	100	()
139	301309	5.71	5.71	13- 73	44	()
<hr/>						
50	2,4-Dinitrotoluene			CAS#: 121-14-2		
165	183338	5.57	5.69	80-120	100	(T)
89	7727	5.59	5.69	48-108	4	(QT)
63	53786	5.59	5.69	21- 81	29	(T)
<hr/>						
52	4-Nitrophenol			CAS#: 100-02-7		
139	5891	5.59	5.63	80-120	100	()
109	1331	5.59	5.63	39- 99	23	(Q)
65	2819	5.59	5.63	60-120	48	(Q)
<hr/>						
53	Fluorene			CAS#: 86-73-7		
166	804774	5.96	5.96	80-120	100	()
165	740161	5.96	5.96	62-122	92	()
167	118074	5.96	5.96	0- 44	15	()
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55	2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1		
198	726	5.87	5.98	80-120	100	(T)
105	620	5.84	5.98	14- 74	85	(QT)
51	2847	5.84	5.98	40-100	392	(QT)
<hr/>						
56	p-Nitroaniline			CAS#: 100-01-6		
138	10462	5.96	5.97	80-120	100	()
108	584	5.96	5.97	35- 95	6	(Q)
92	1315	6.05	5.97	5- 65	13	(T)
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
68 Phenanthrene		CAS#: 85-01-8				
178	7552413	6.61	6.61	80-120	100	()
179	1800124	6.61	6.61	0- 46	24	()
176	1630489	6.61	6.61	0- 49	22	()
<hr/>						
69 Anthracene		CAS#: 120-12-7				
178	1384279	6.64	6.64	80-120	100	()
179	1800124	6.61	6.64	0- 46	130	(Q)
176	249061	6.64	6.64	0- 49	18	()
<hr/>						
72 Di-n-butylphthalate		CAS#: 84-74-2				
149	119920	6.91	6.91	80-120	100	()
150	42632	6.91	6.91	0- 39	36	()
104	8653	6.91	6.91	0- 35	7	()
<hr/>						
76 Fluoranthene		CAS#: 206-44-0				
202	6325122	7.34	7.32	80-120	100	()
203	1267700	7.34	7.32	0- 47	20	()
101	959605	7.34	7.32	0- 43	15	()
<hr/>						
79 Pyrene		CAS#: 129-00-0				
202	5322388	7.48	7.46	80-120	100	()
200	1215855	7.48	7.46	0- 51	23	()
101	976240	7.47	7.46	0- 46	18	()
<hr/>						
89 Benzo(a)anthracene		CAS#: 56-55-3				
228	1657480	8.17	8.16	80-120	100	()
226	457926	8.17	8.16	0- 57	28	()
229	457524	8.17	8.16	0- 50	28	()
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92 Chrysene		CAS#: 218-01-9				
228	1823877	8.19	8.19	80-120	100	()
229	431171	8.19	8.19	0- 50	24	()
226	559578	8.19	8.19	0- 59	31	()
<hr/>						
93 bis(2-Ethylhexyl)phthalate		CAS#: 117-81-7				
149	53506	8.09	8.09	80-120	100	()
167	16883	8.09	8.09	1- 61	32	()
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95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	1478613	8.98	8.97	80-120	100	()
253	332212	8.98	8.97	0- 52	22	()
125	246870	8.98	8.96	0- 44	17	()
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96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	1478613	8.98	8.99	80-120	100	()
253	341219	8.98	8.99	0- 52	23	()
125	248406	8.98	8.99	0- 48	17	()
<hr/>						

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
97 Benzo(a)pyrene		CAS#: 50-32-8				
252	657632	9.28	9.28	80-120	100	()
253	161972	9.28	9.28	0- 52	25	()
125	109443	9.28	9.28	0- 48	17	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	259856	10.61	10.60	80-120	100	()
138	99779	10.60	10.60	14- 74	38	()

100 Dibenzo(a,h)anthracene		CAS#: 53-70-3				
278	75087	10.61	10.61	80-120	100	()
139	9593	10.62	10.60	0- 60	13	()

101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	224262	11.00	10.99	80-120	100	()
138	88189	11.00	10.99	9- 69	39	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1332.d
 Lab Smp Id: 248197009 Client Smp ID: RE36-10-7431
 Inj Date : 13-MAR-2010 21:07
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |248197009|960459|4|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 32
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: 10-2121.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	4.00000	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	23.03650	% moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 67 Phenanthrene-d10	6.593	25085370	40.000
* 91 Chrysene-d12	8.177	10322329	40.000
* 98 Perylene-d12	9.337	3273276	40.000

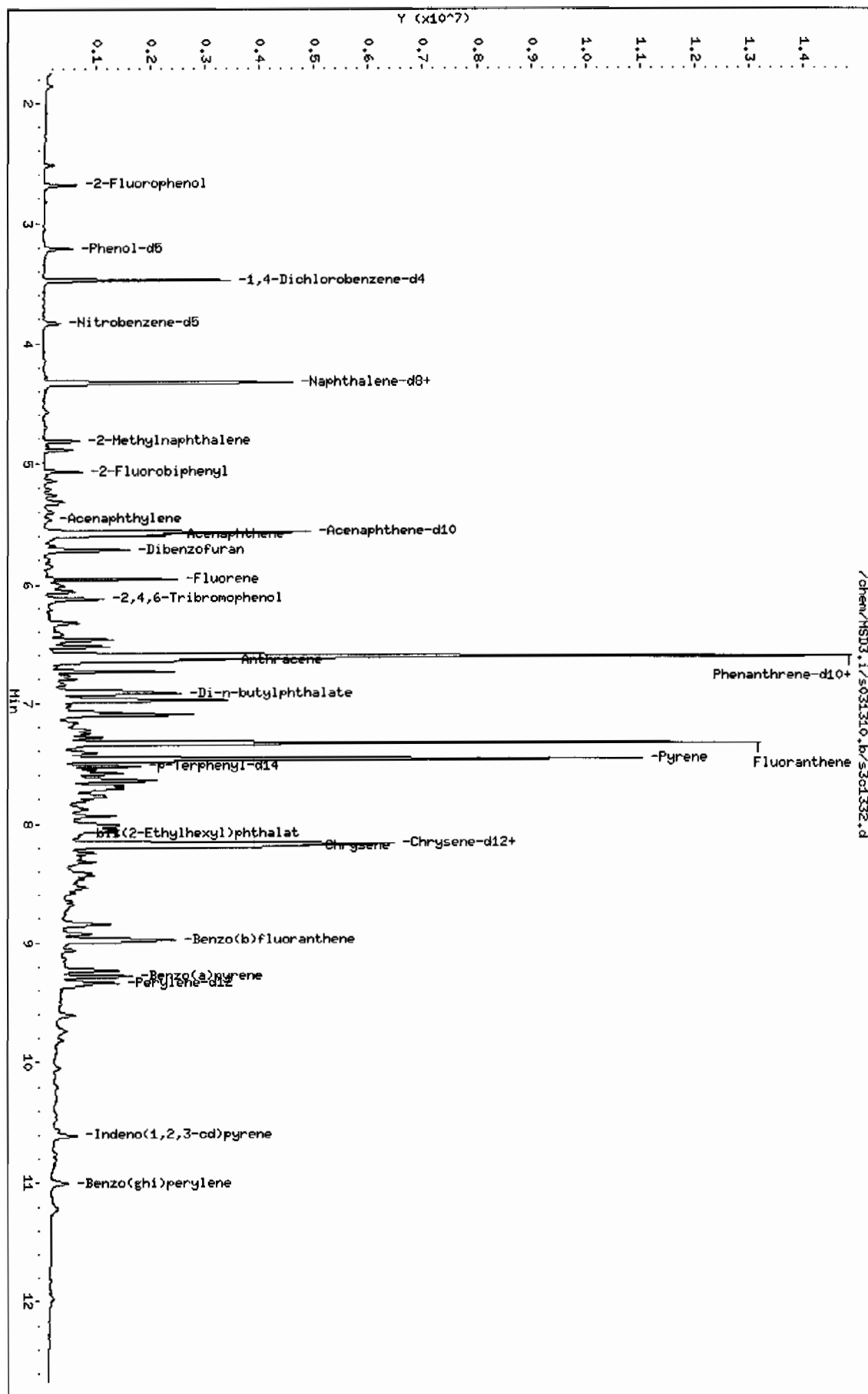
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
5H-Indeno[1,2-b]pyridine					CAS #: 244-99-5		
6.732	2928594	4.66980387	807	96	NIST05.L	34225	67
Unknown					CAS #:		
6.979	4838155	7.71470284	1330	0		0	67
9,10-Anthracenedione					CAS #: 84-65-1		
7.102	3772260	6.01507509	1040	98	NIST05.L	62993	67
Pyrene, 1-methyl-					CAS #: 2381-21-7		
7.583	2164213	8.38653142	1450	96	NIST05.L	68688	91
11H-Benzo[b]fluorene					CAS #: 243-17-4		
7.647	3892013	15.0819157	2600	96	NIST05.L	68695	91
Unknown					CAS #:		
7.685	2018156	7.82054443	1350	0		0	91
Pyrene, 2-methyl-					CAS #: 3442-78-2		
7.706	3469897	13.4461800	2320	95	NIST05.L	68687	91
Unknown					CAS #:		
7.781	1750472	6.78324343	1170	0		0	91
11H-Benzo[a]fluoren-11-one					CAS #: 479-79-8		
7.941	2545590	9.86440270	1700	97	NIST05.L	78768	91
11H-Benzo[a]fluoren-11-one					CAS #: 479-79-8		
8.070	1869759	7.24549324	1250	97	NIST05.L	78768	91
11H-Benzo[a]carbazole					CAS #: 239-01-0		
8.321	2168228	8.40208944	1450	80	NIST05.L	69224	91
4b,10b-Dihydro-4b,10b-methanochrysene					CAS #: 71949-03-6		
8.412	2060015	7.98275092	1380	86	NIST05.L	86939	91
Cyclohexane, hexaethylidene-					CAS #: 1482-93-5		
8.540	2333106	9.04100537	1560	90	NIST05.L	85536	91
Unknown					CAS #:		
8.845	3011119	36.7963950	6360	0		0	98
Nonadecane					CAS #: 629-92-5		
8.925	1740484	21.2690113	3670	95	NIST05.L	104272	98

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Perylene					CAS #: 198-55-0		
9.236	2462376	30.0906627	5200	99	NIST05.L	93574	98
Eicosane					CAS #: 112-95-8		
9.610	1798564	21.9787650	3800	97	NIST05.L	113489	98

Data File: /chem/MSD3.i/s031310.b/s301332.d
 Date: 13-MAR-2010 21:07
 Client ID: RE36-10-7431
 Sample Info: 12481970091960459141SVHF11.LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

Volume Injected (uL): 0.5

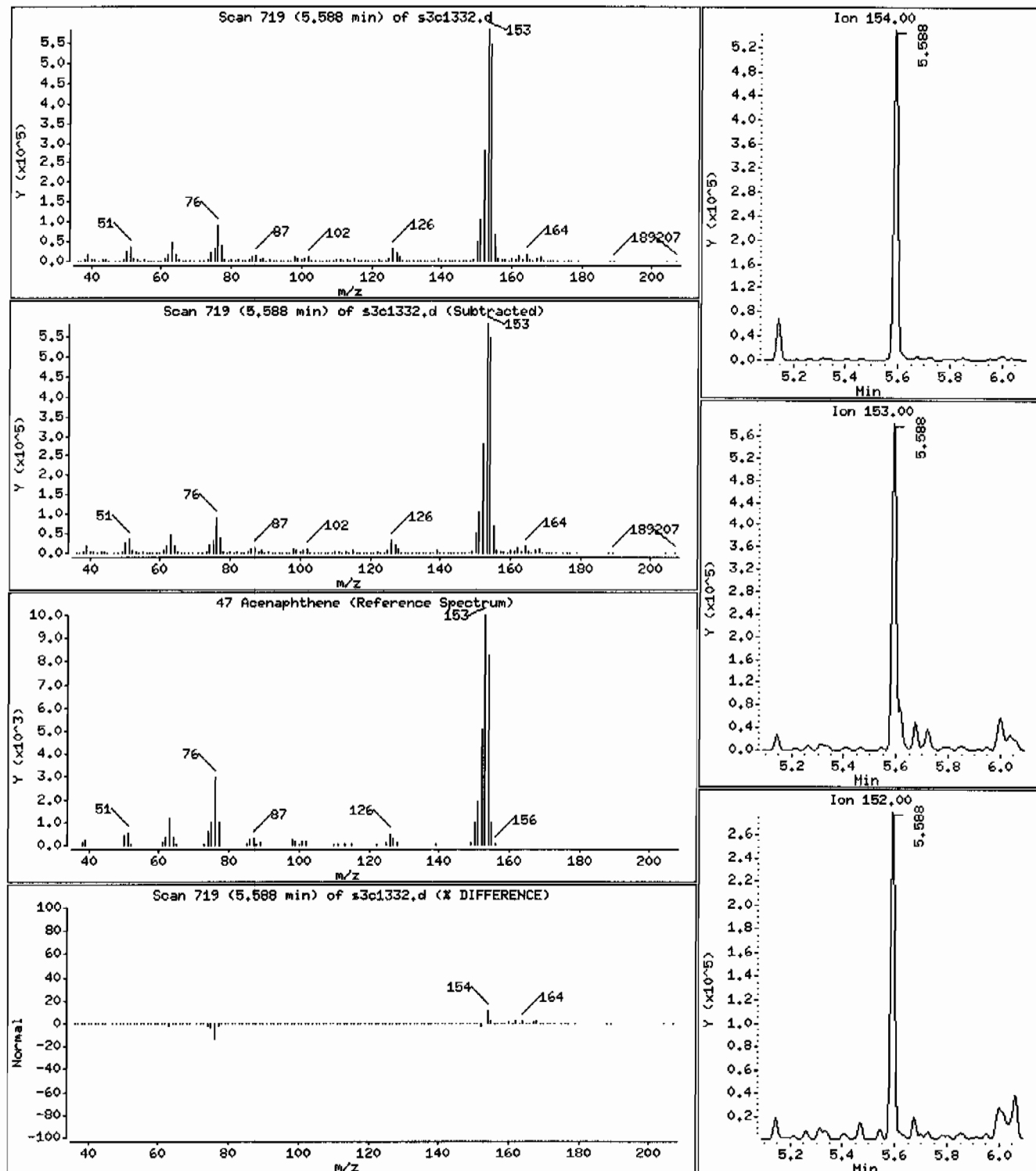
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

47 Acenaphthene

Concentration: 3430 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF111LANL

Volume Injected (uL): 0.5

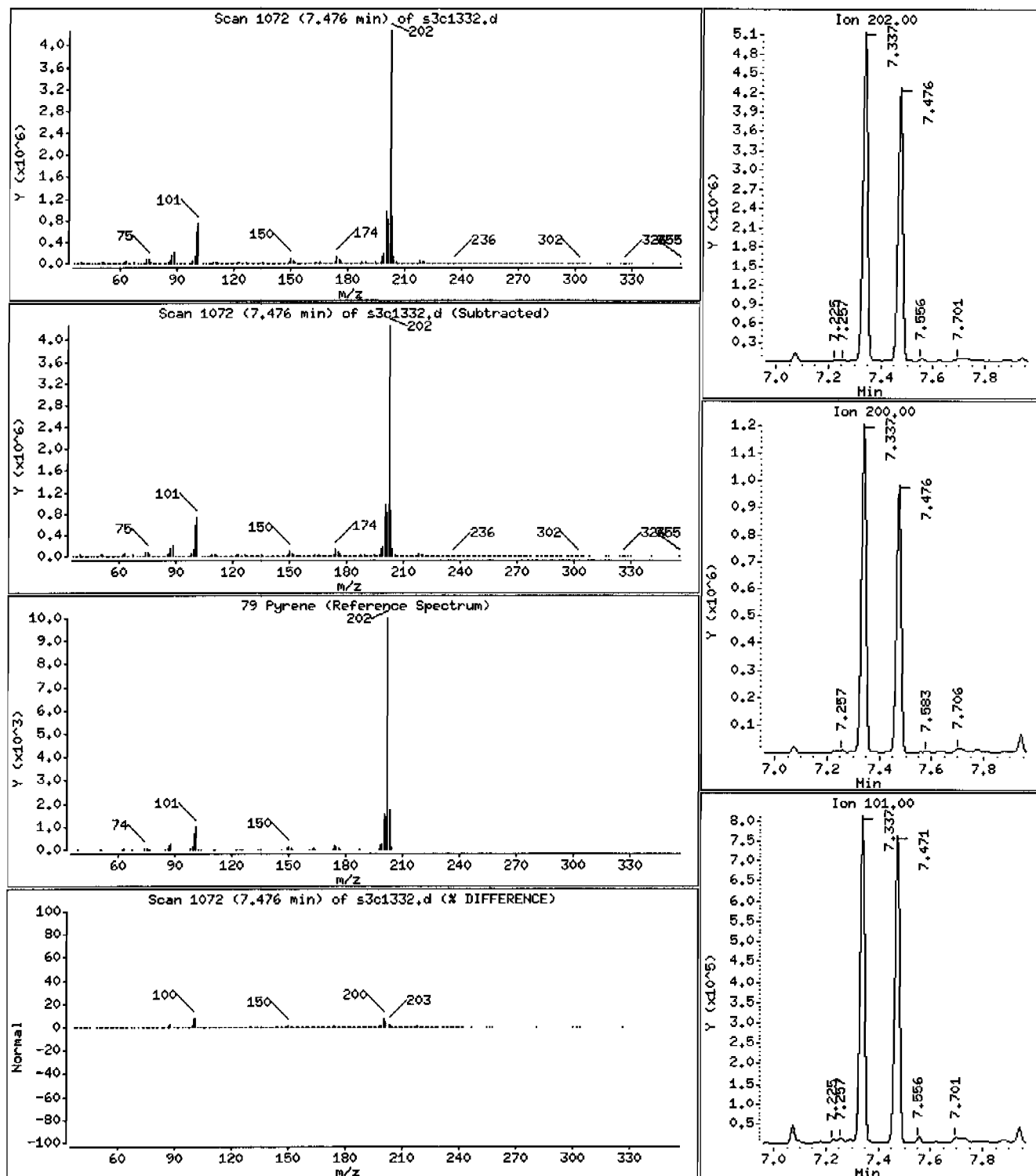
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 29400 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

Volume Injected (uL): 0.5

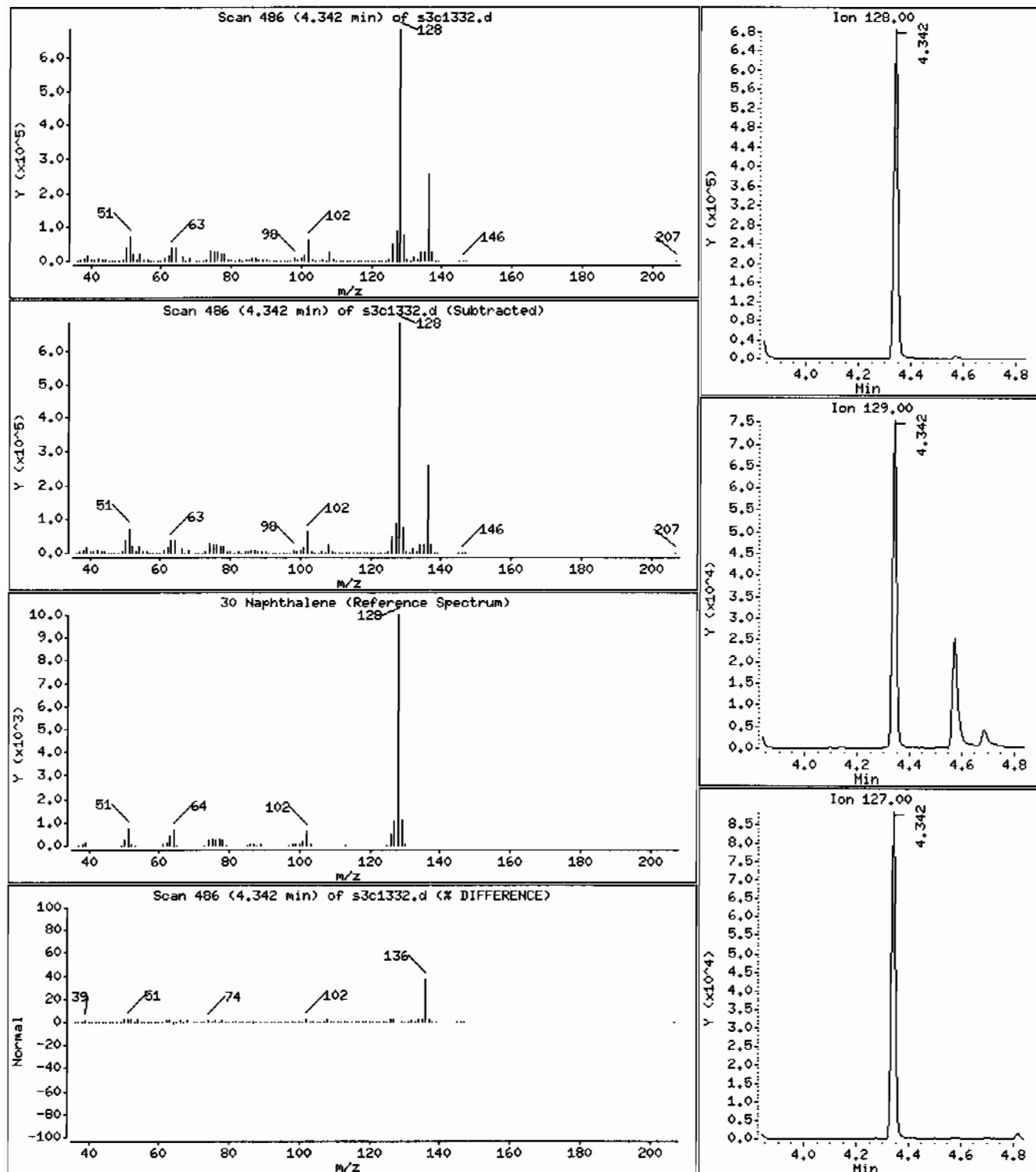
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

30 Naphthalene

Concentration: 2670 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF11ILANL

Volume Injected (uL): 0.5

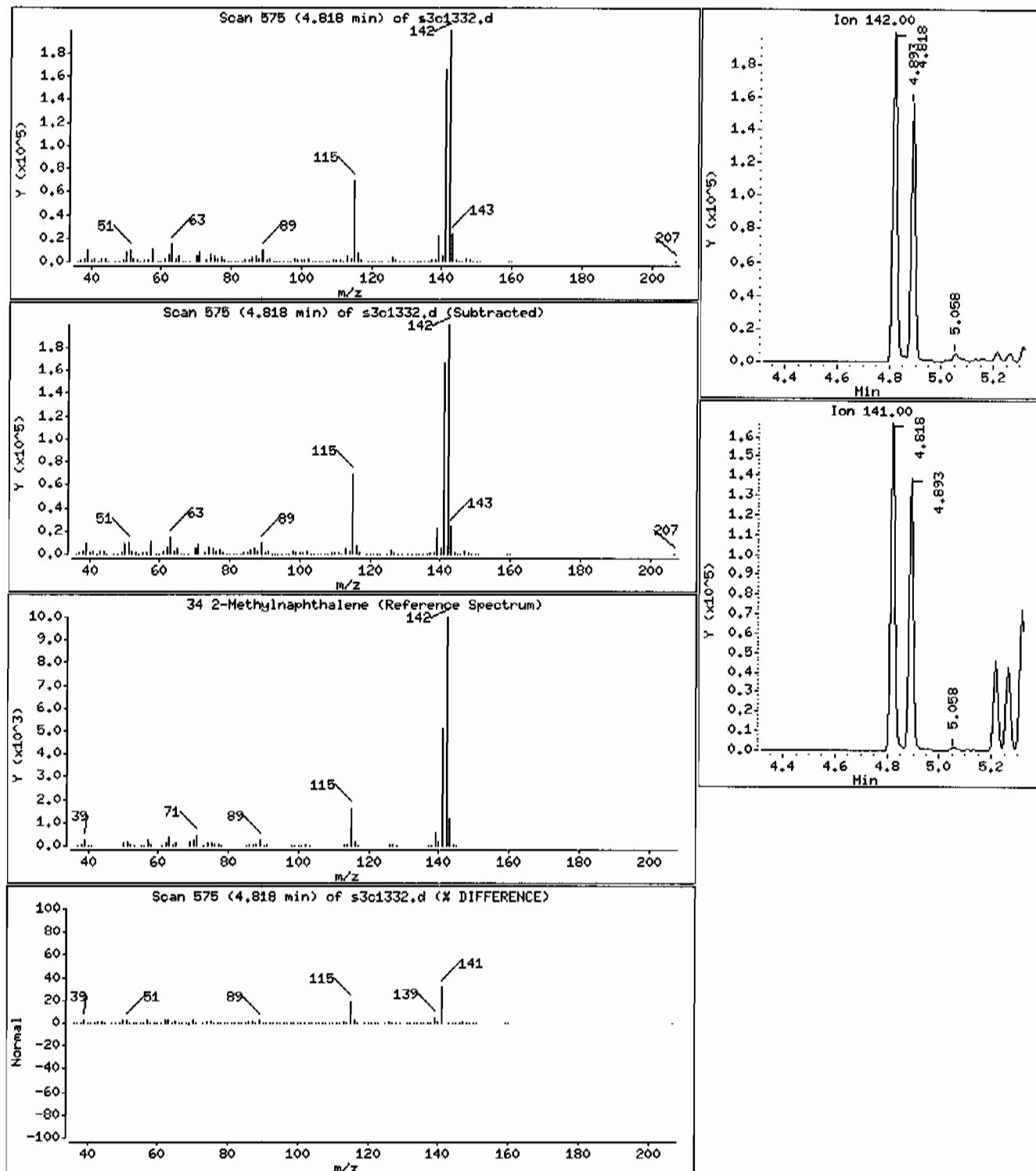
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

34 2-Methylnaphthalene

Concentration: 1300 ug/Kg



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF111LANL

Volume Injected (uL): 0.5

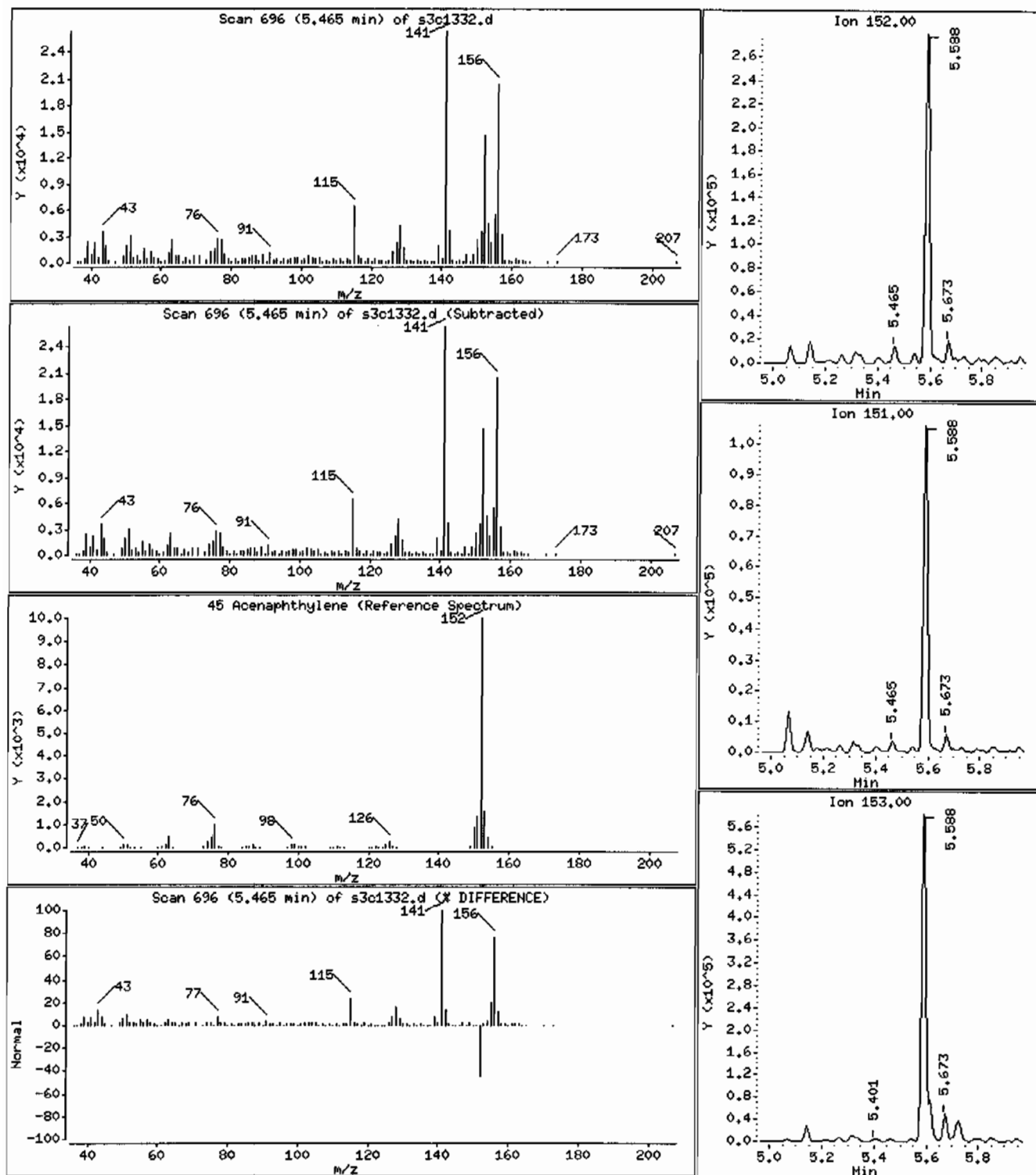
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

45 Acenaphthylene

Concentration: 63.8 ug/Kg



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVMF111LANL

Volume Injected (uL): 0.5

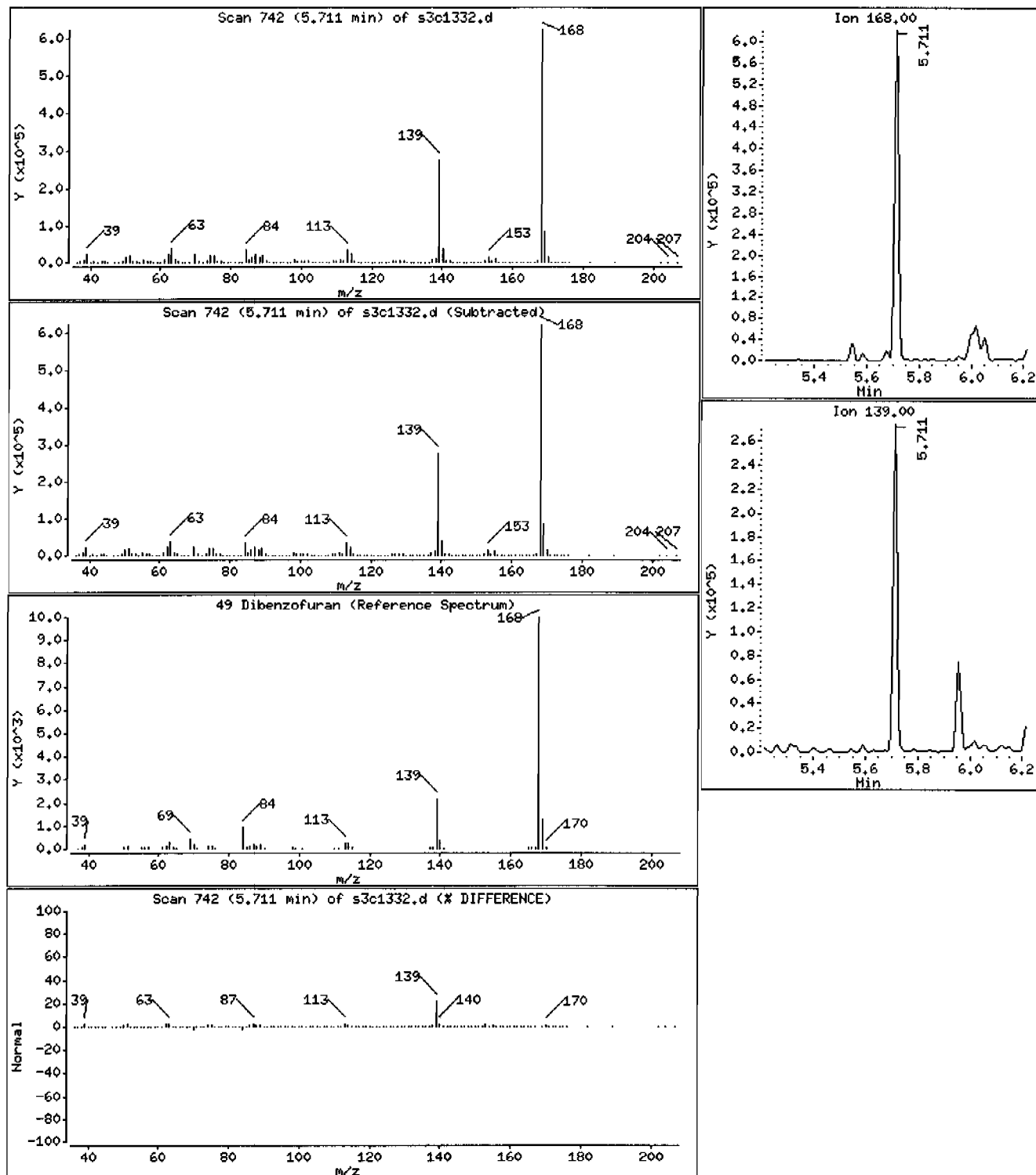
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

49 Dibenzofuran

Concentration: 2940 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF11ILANL

Volume Injected (uL): 0.5

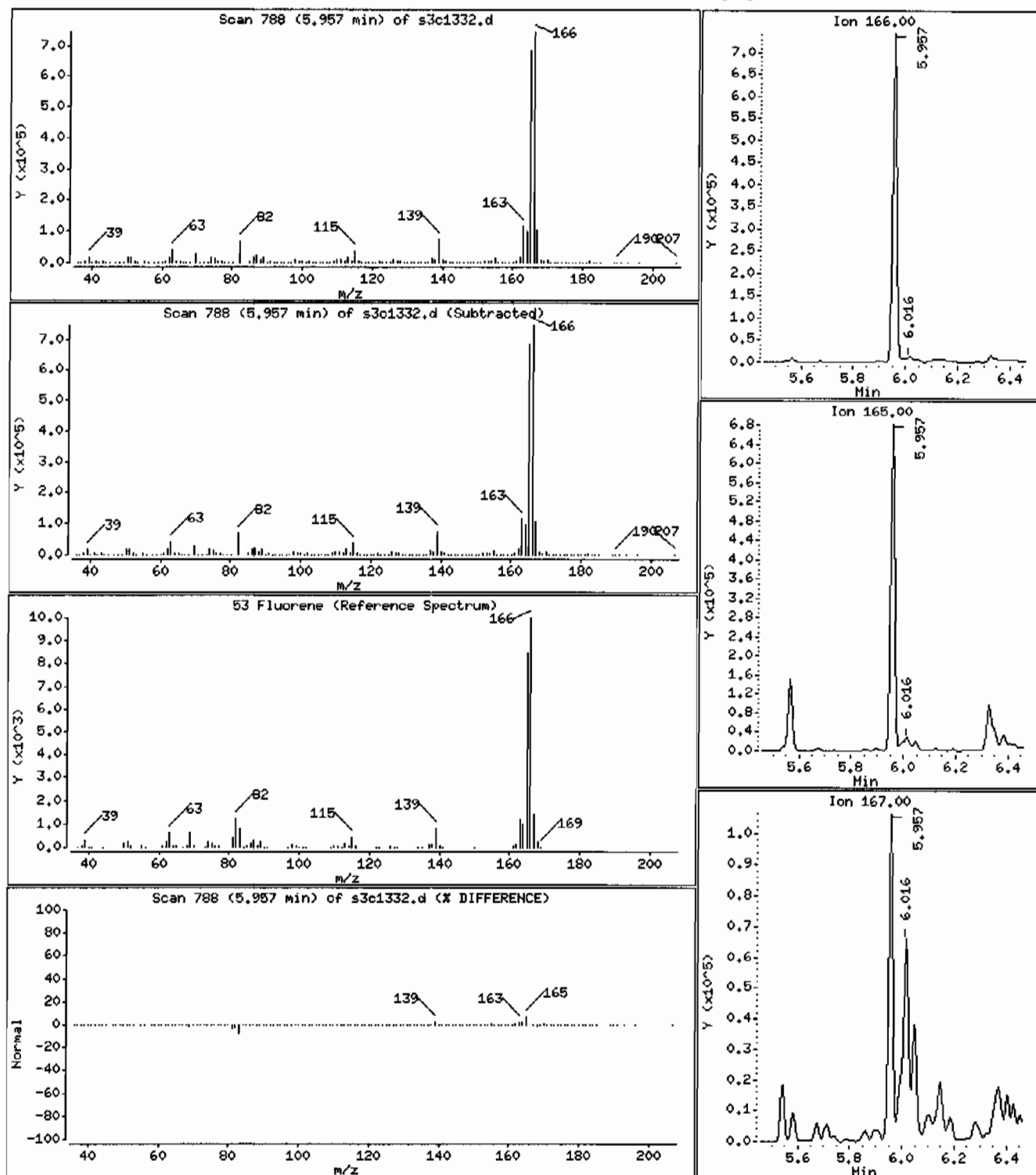
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 4000 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960489141SVHF11ILANL

Volume Injected (uL): 0.5

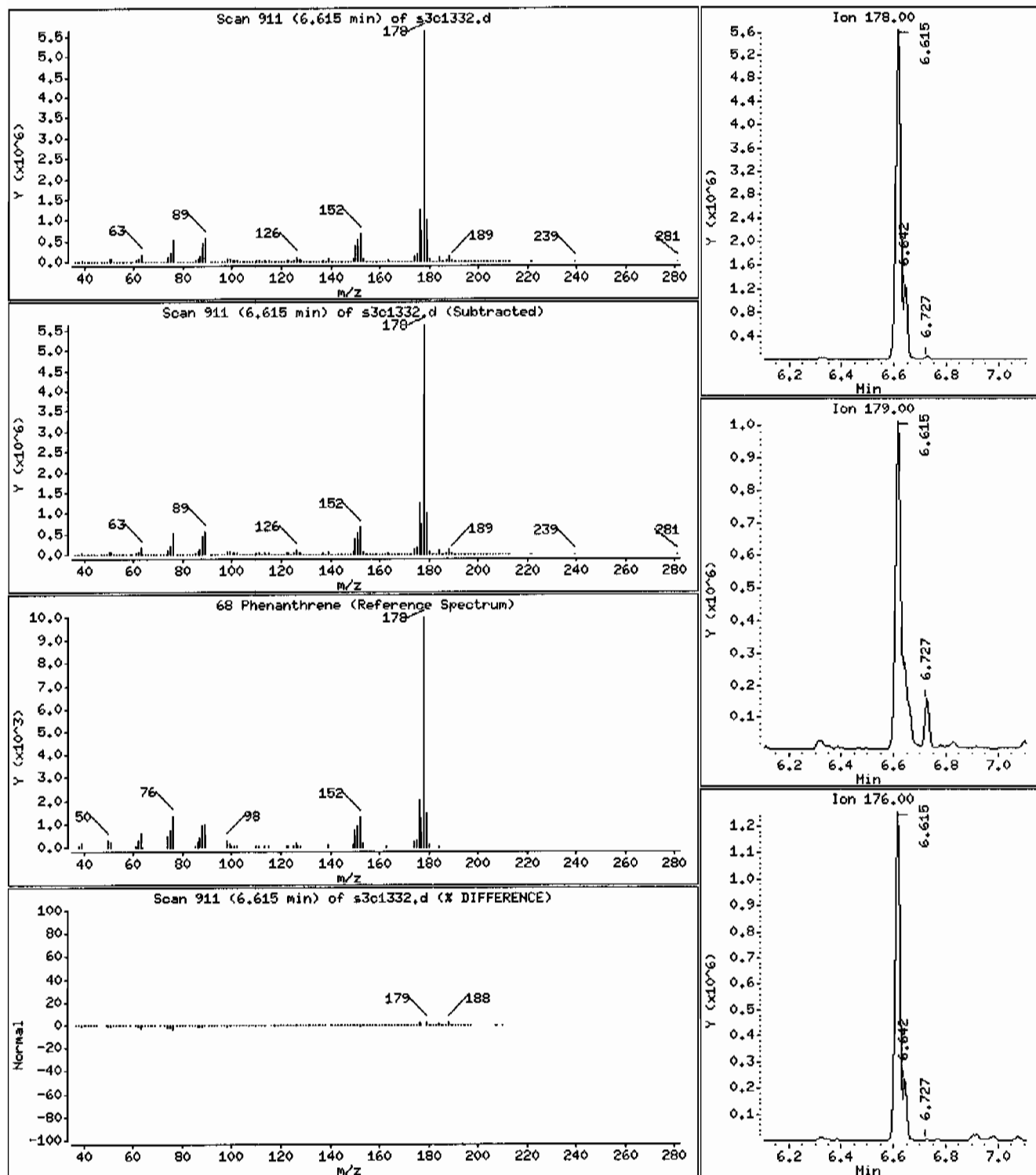
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 26800 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

Volume Injected (uL): 0.5

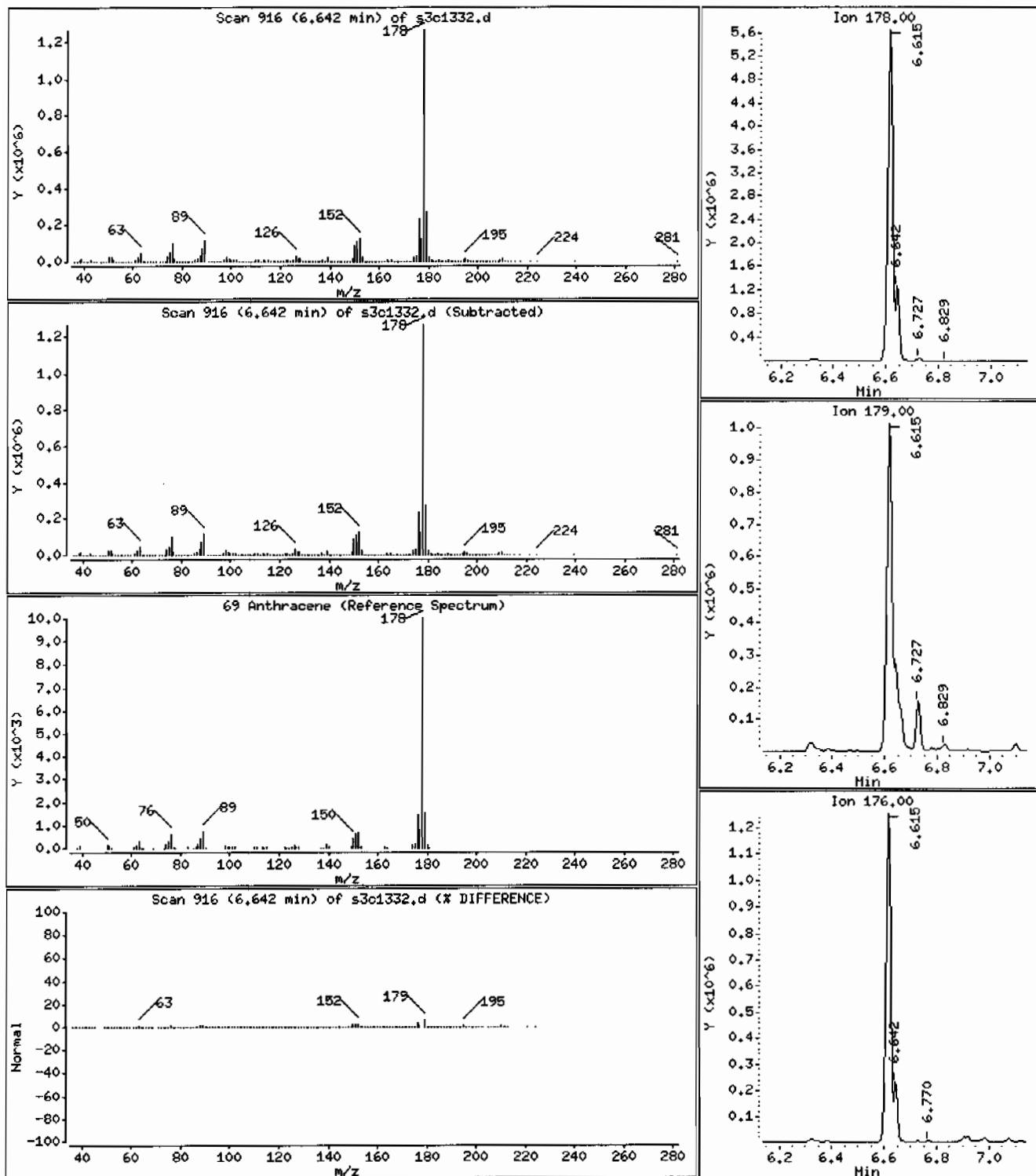
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 5030 ug/Kg



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.1

Sample Info: 1248197009|96045914|SMVF11|LANL

Volume Injected (uL): 0.5

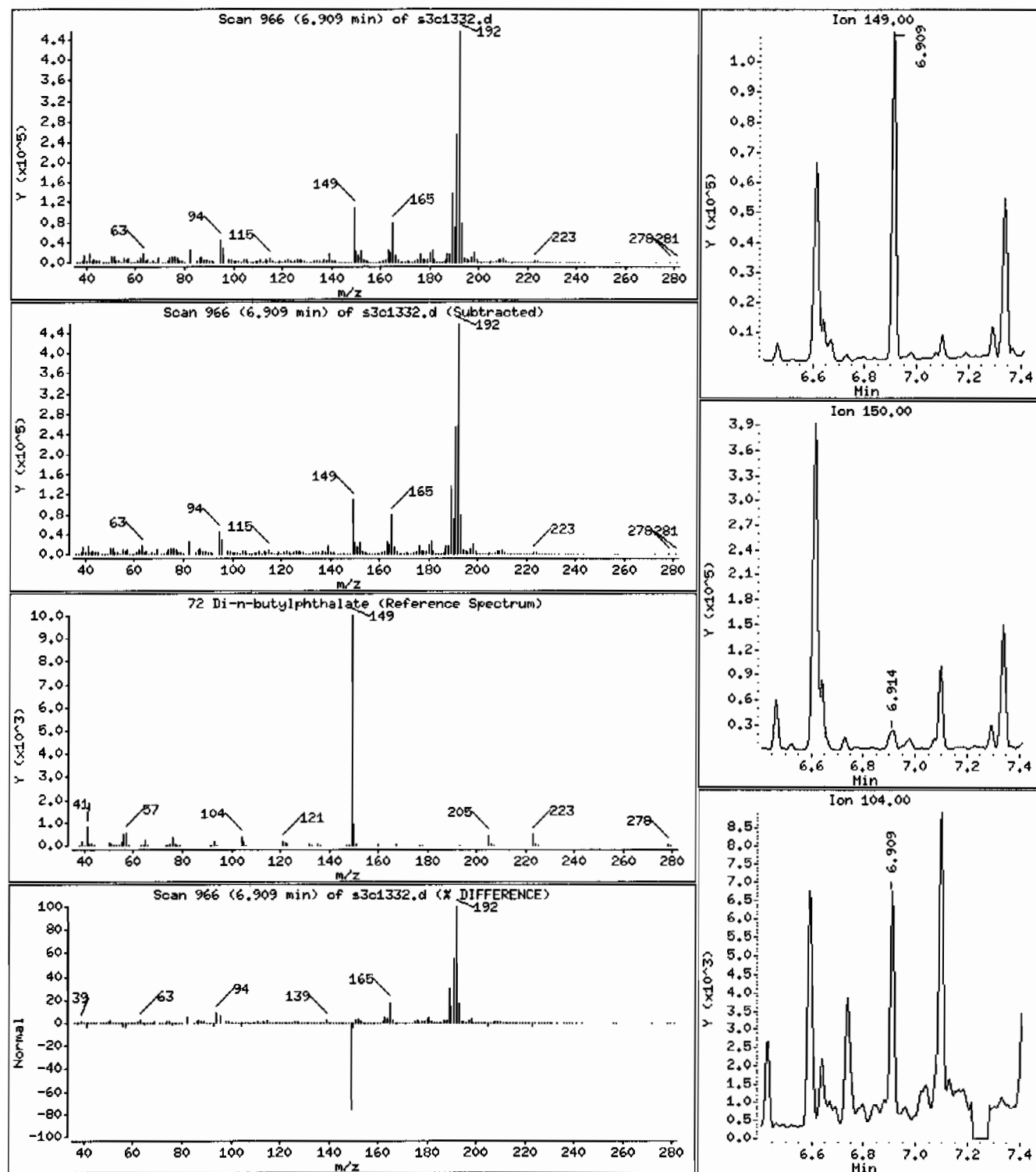
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

72 Di-n-butylphthalate

Concentration: 377 ug/Kg



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

Volume Injected (uL): 0.5

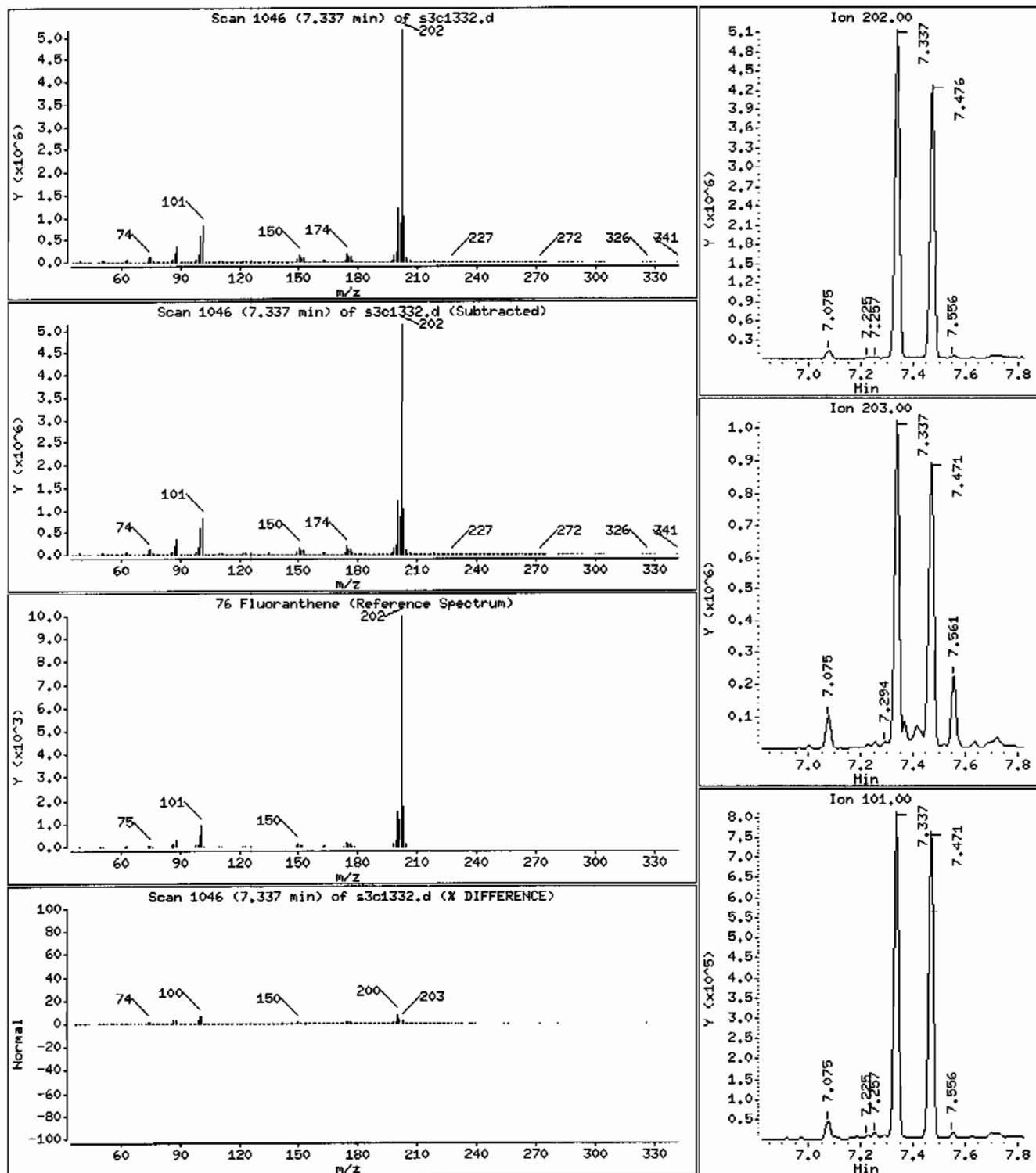
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 24800 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

Volume Injected (uL): 0.5

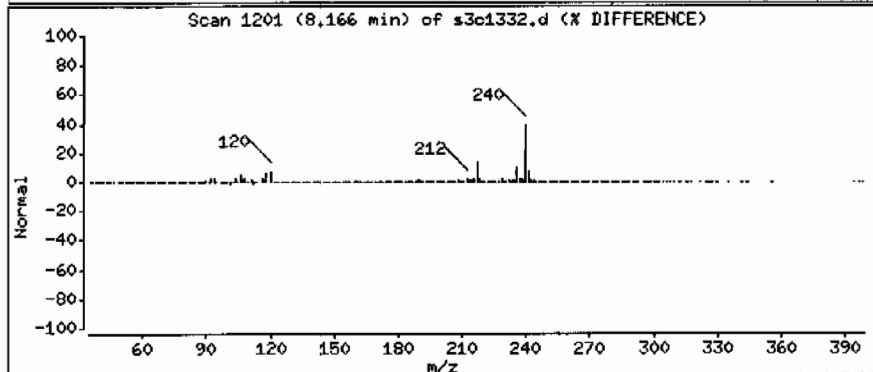
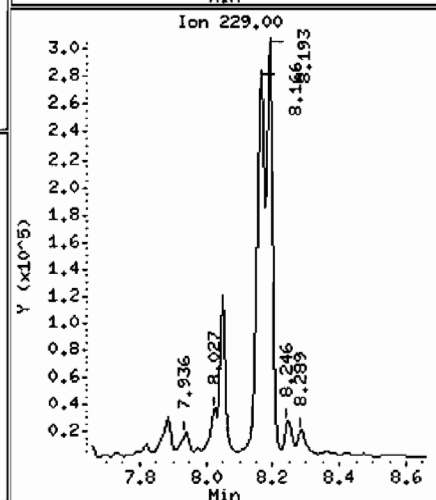
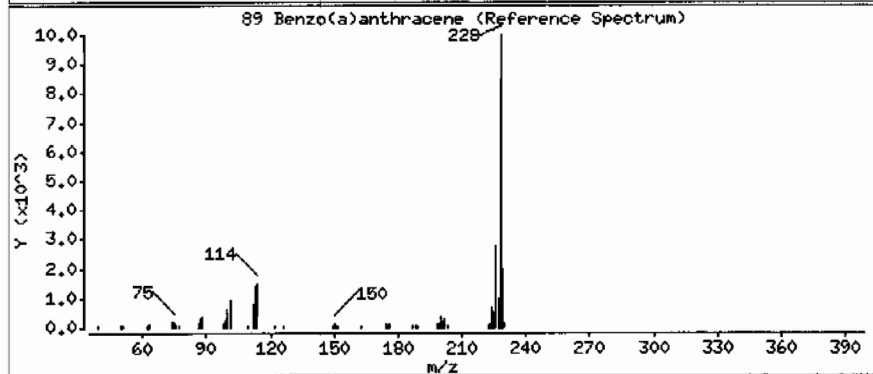
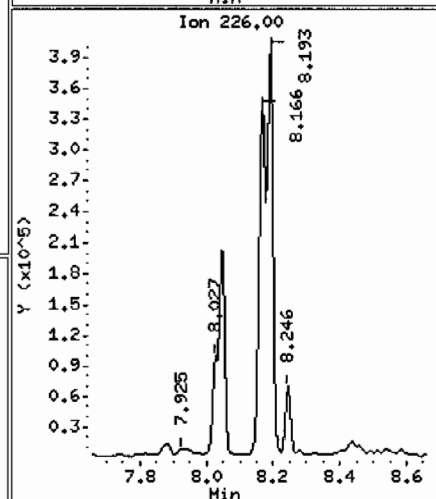
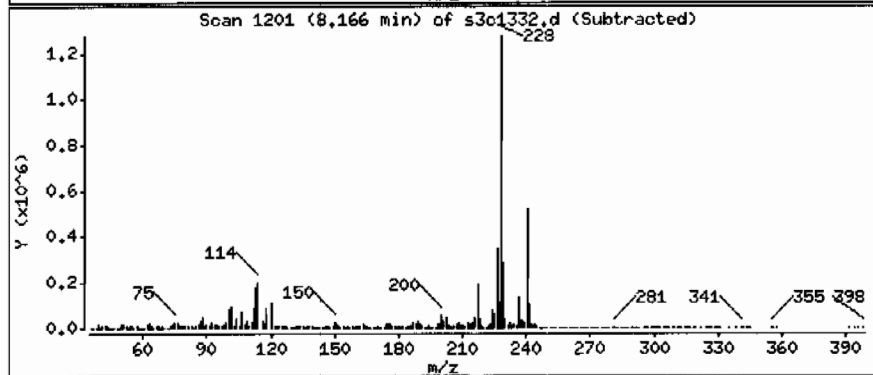
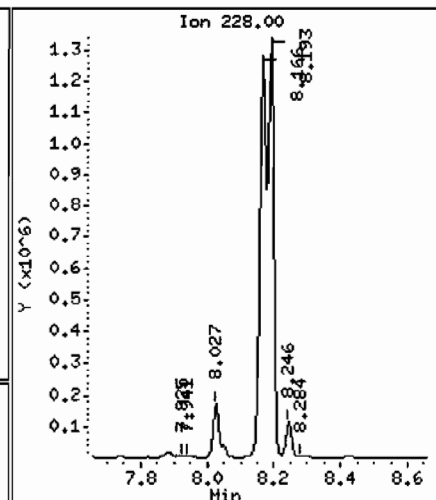
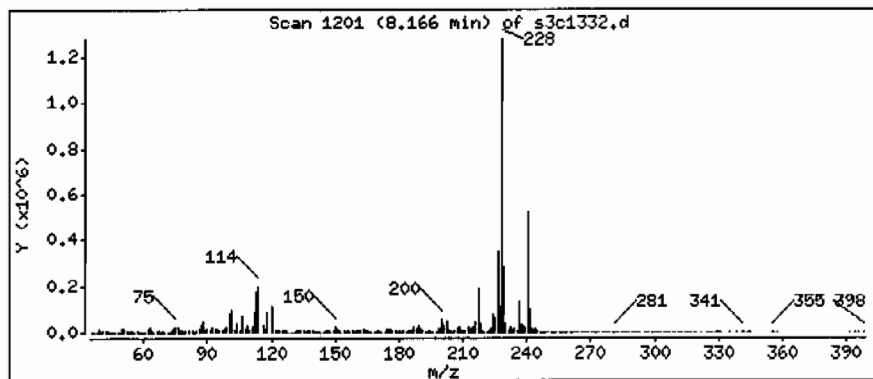
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 11400 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 1248197009196045914(SVHF11)LANL

Volume Injected (uL): 0.5

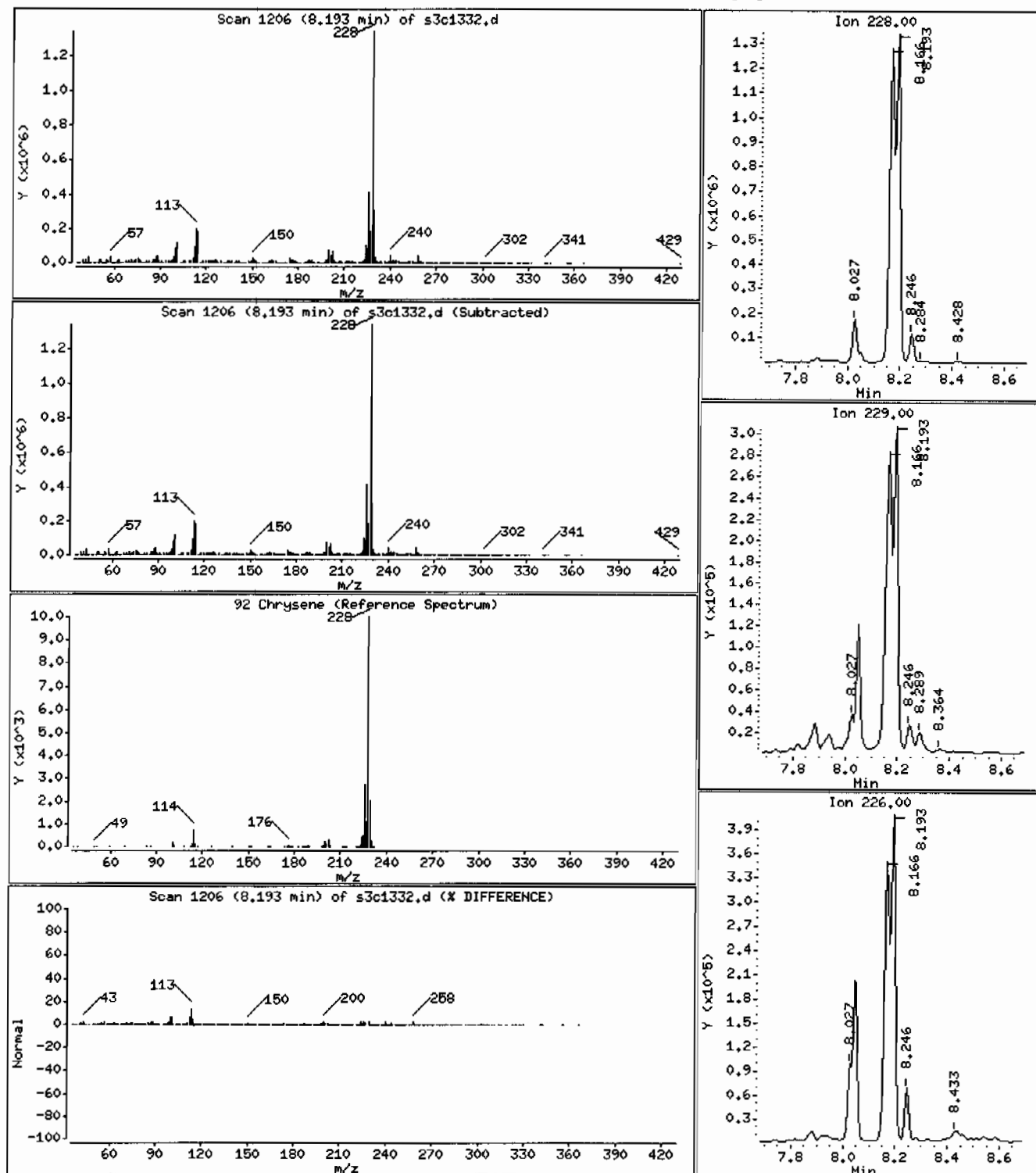
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 12300 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVNF11ILANL

Volume Injected (uL): 0.5

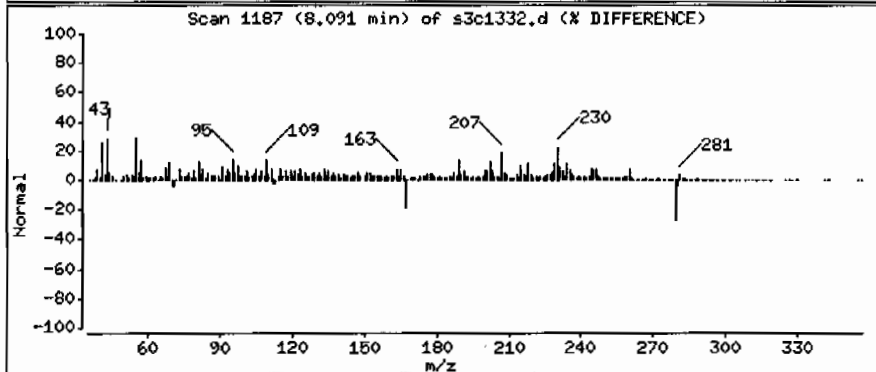
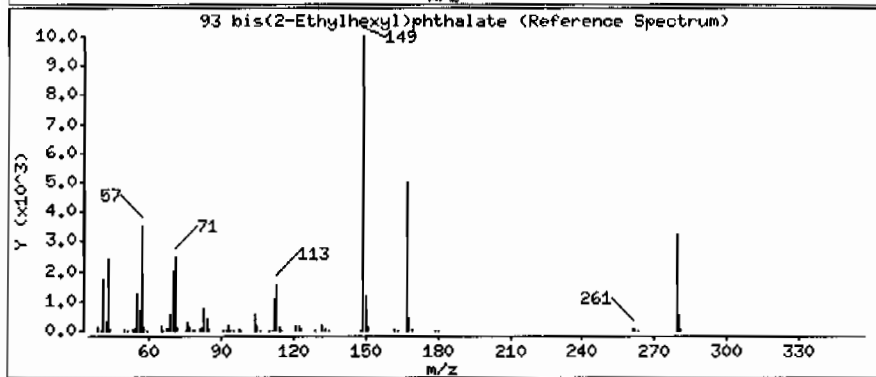
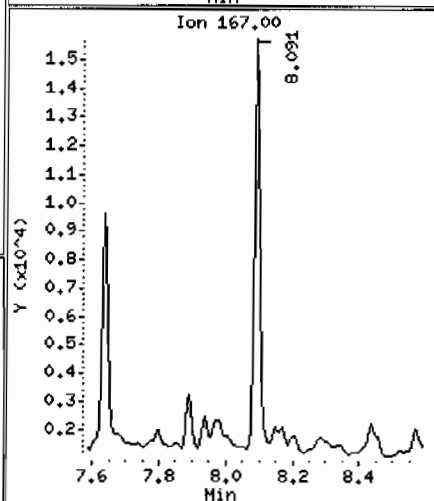
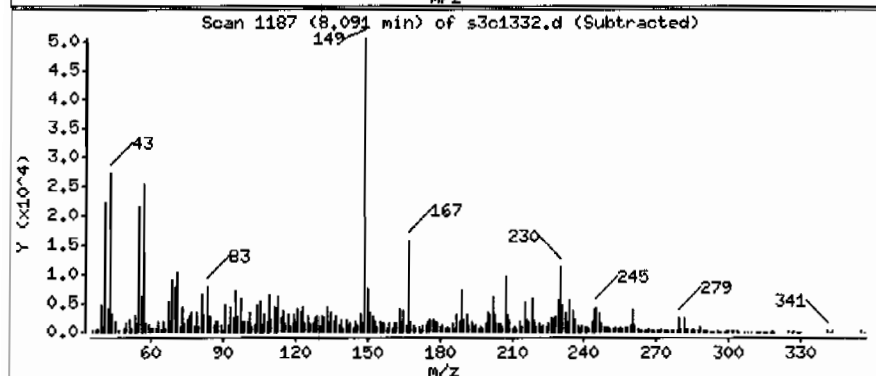
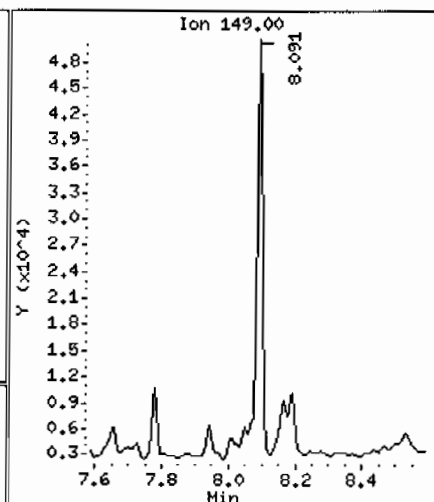
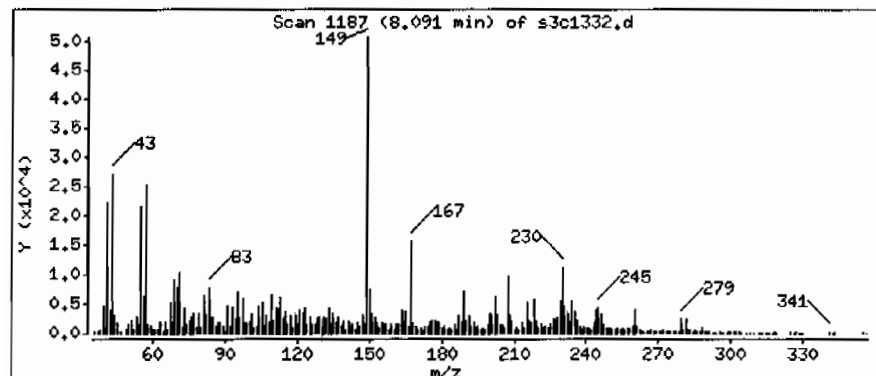
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

93 bis(2-Ethylhexyl)phthalate

Concentration: 436 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

Volume Injected (uL): 0.5

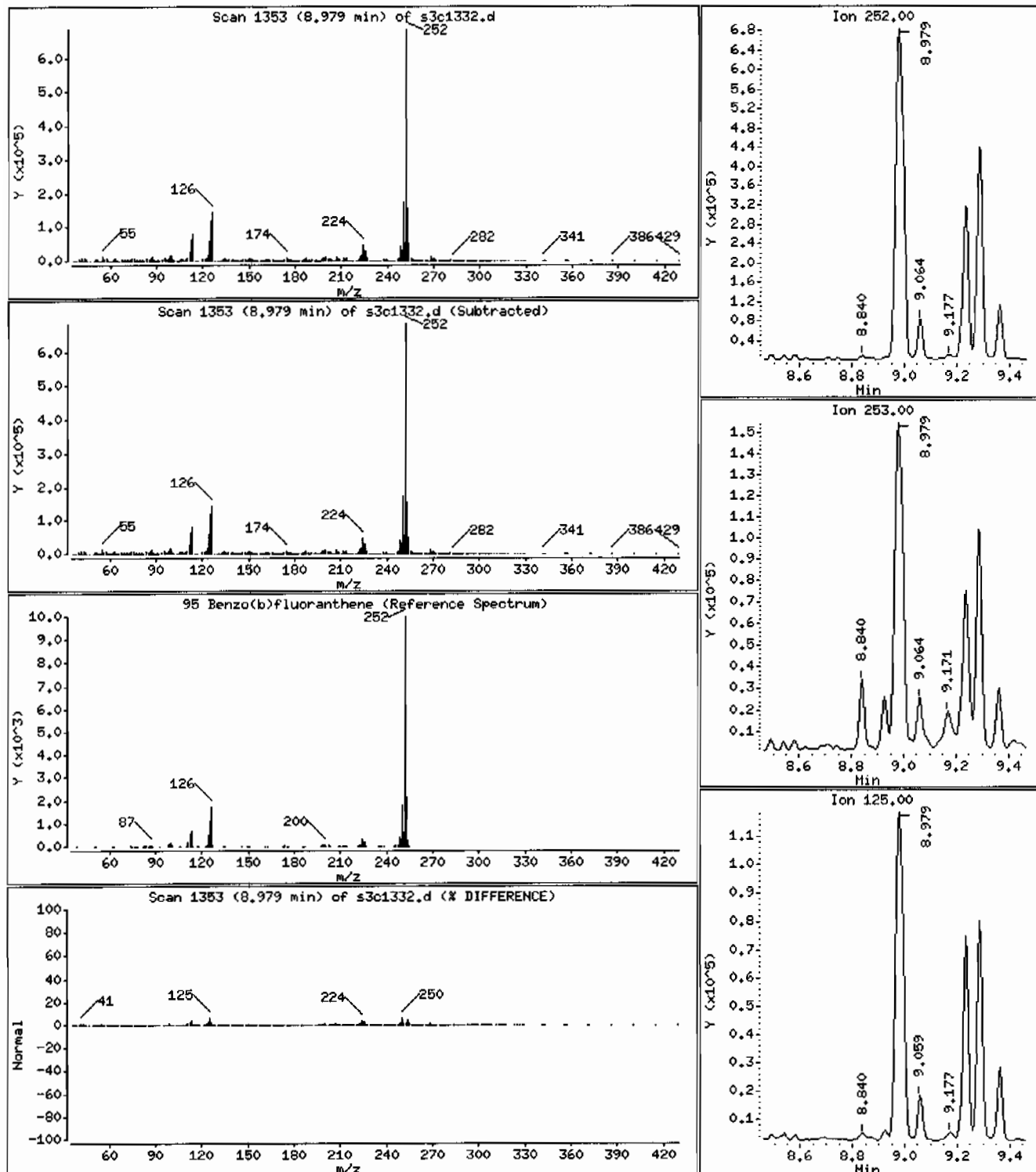
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 19600 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF11ILANL

Volume Injected (uL): 0.5

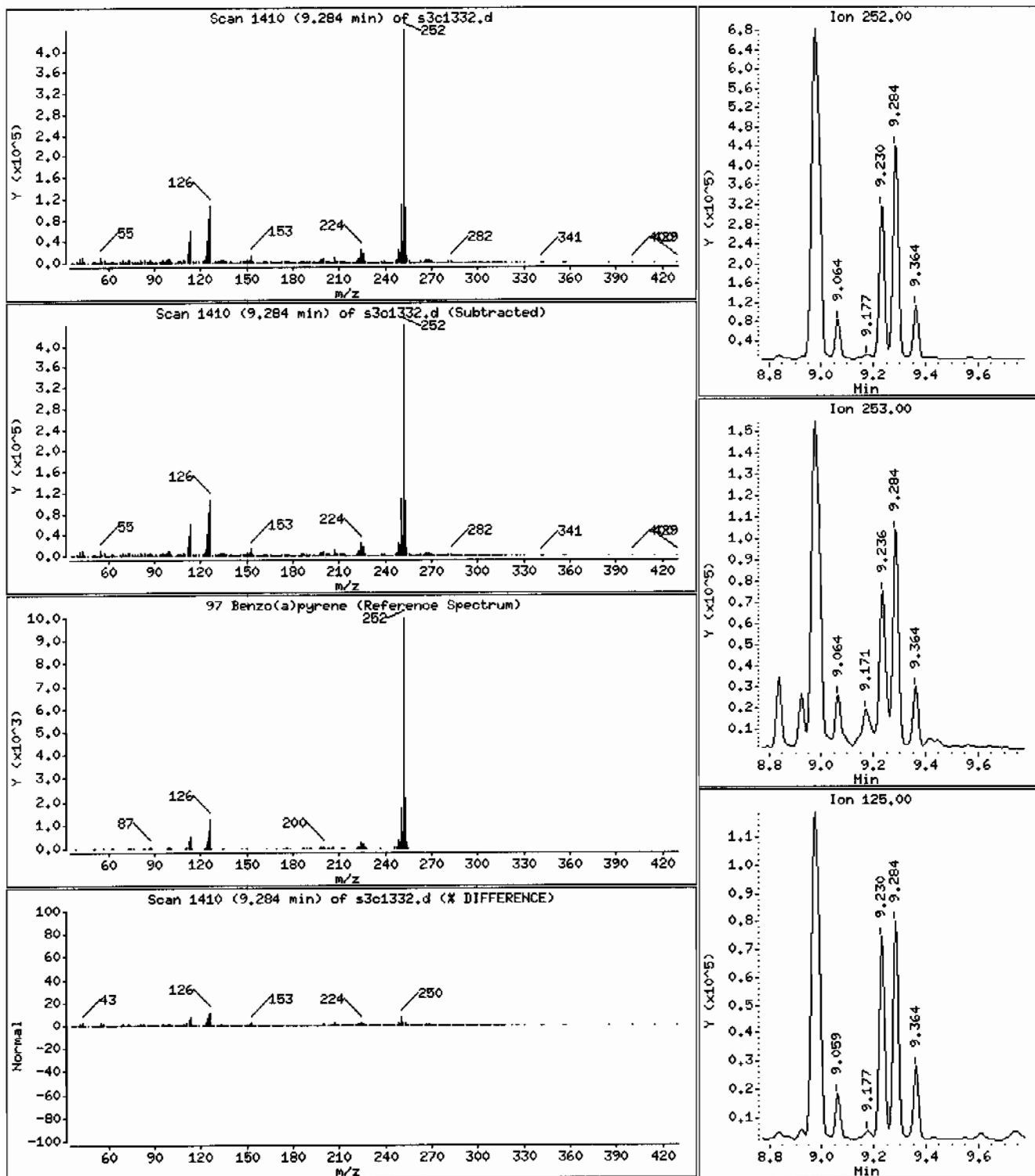
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 10100 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 1248197009196045914ISVHF11ILANL

Volume Injected (uL): 0.5

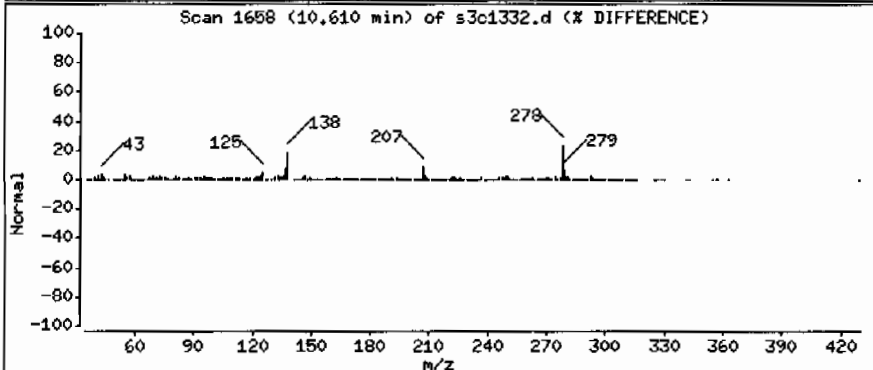
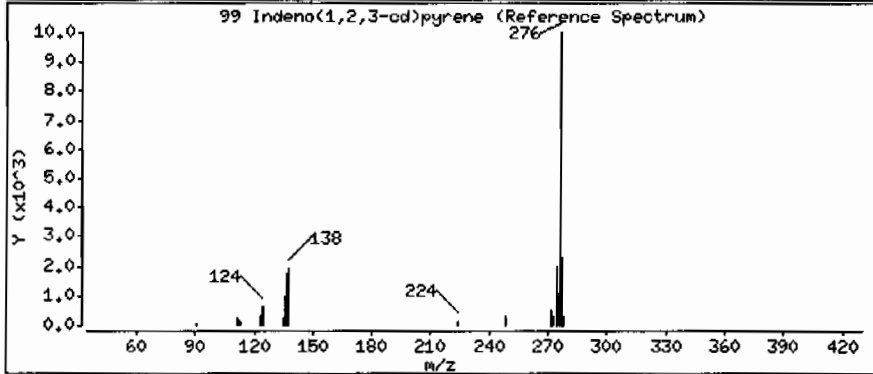
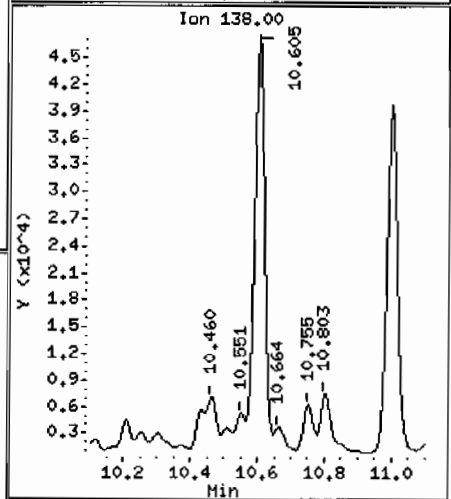
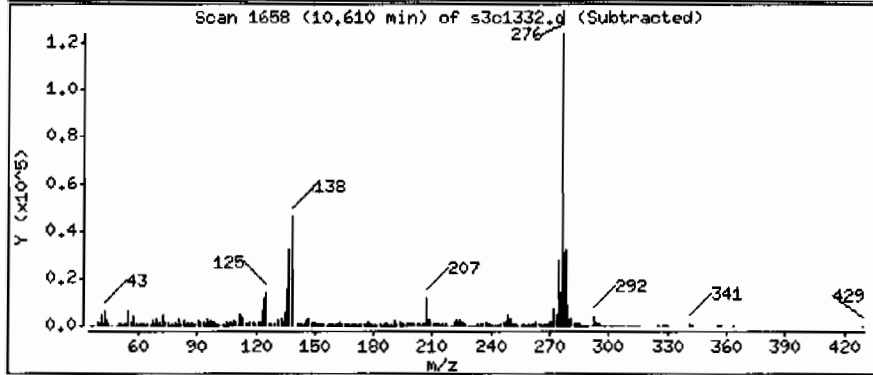
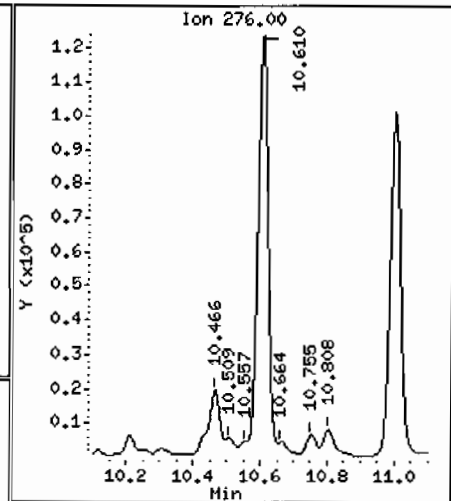
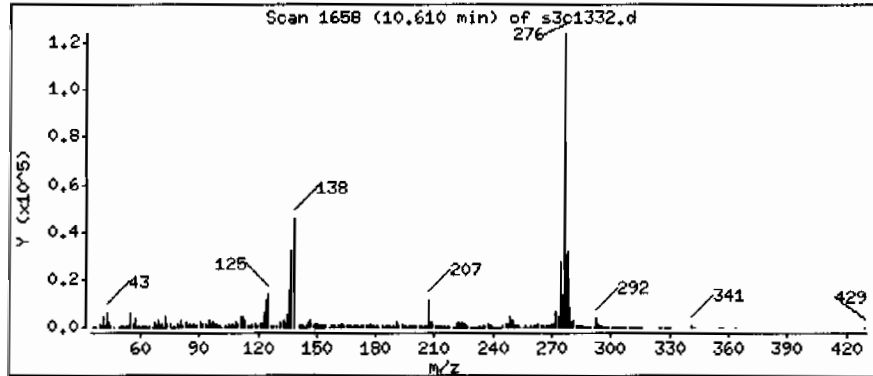
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 4650 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 1248197009|96045914|SVHF11|LANL

Volume Injected (uL): 0.5

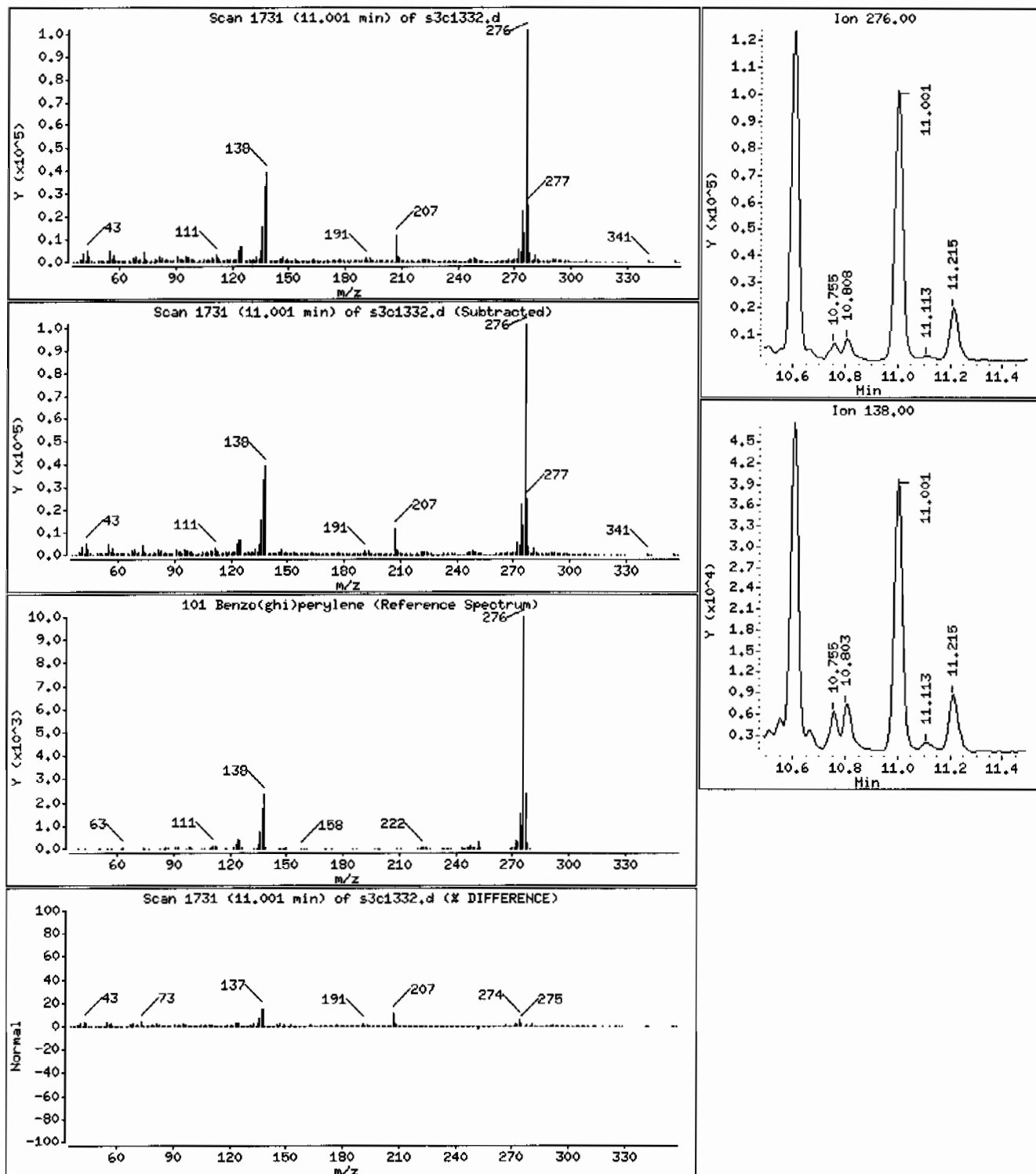
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 4880 ug/Kg



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF111LANL

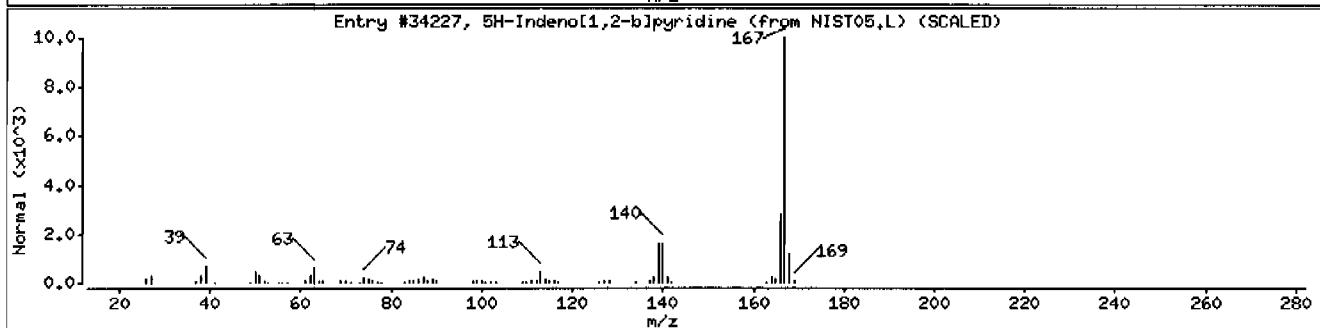
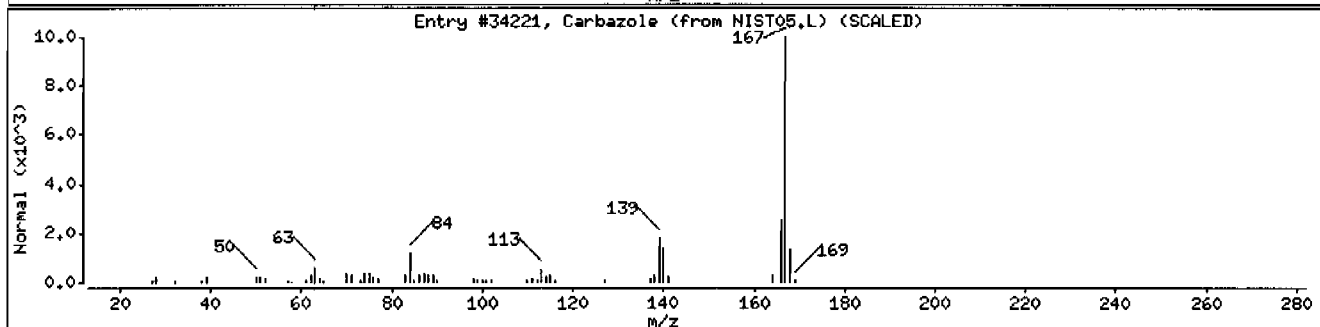
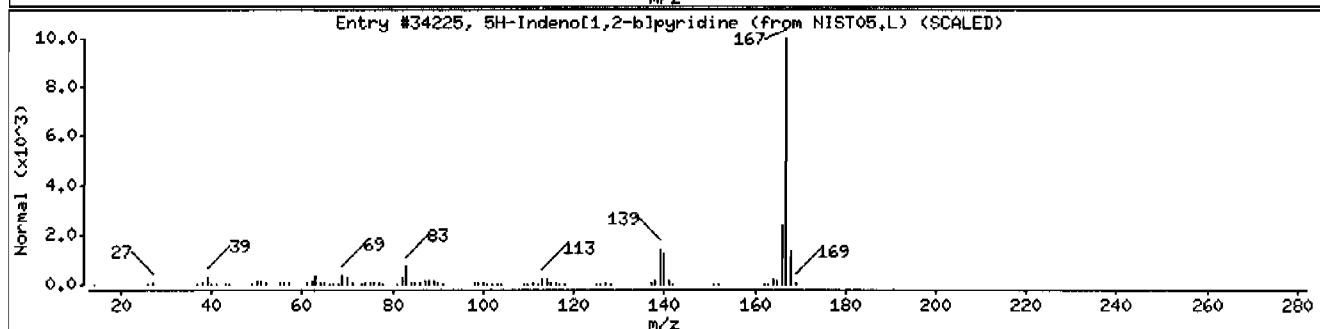
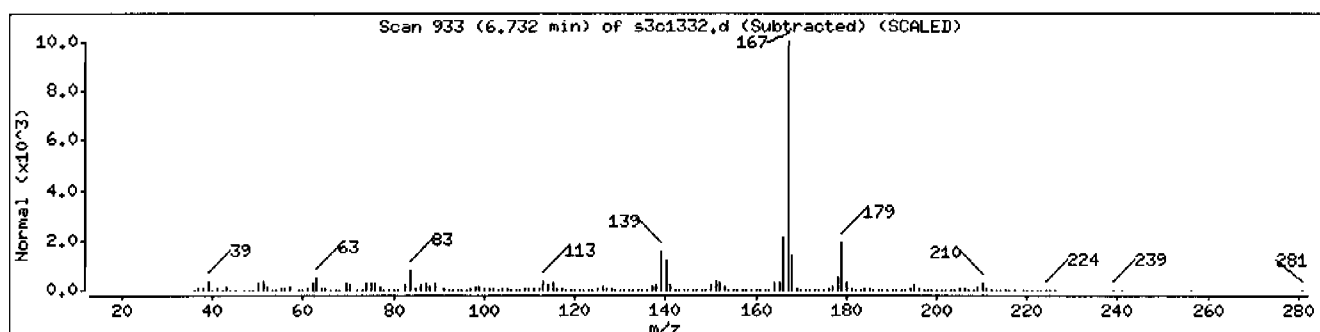
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5H-Indeno[1,2-b]pyridine	244-99-5	NIST05.L	34225	96	C12H9N	167
Carbazole	86-74-8	NIST05.L	34221	95	C12H9N	167
5H-Indeno[1,2-b]pyridine	244-99-5	NIST05.L	34227	94	C12H9N	167



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

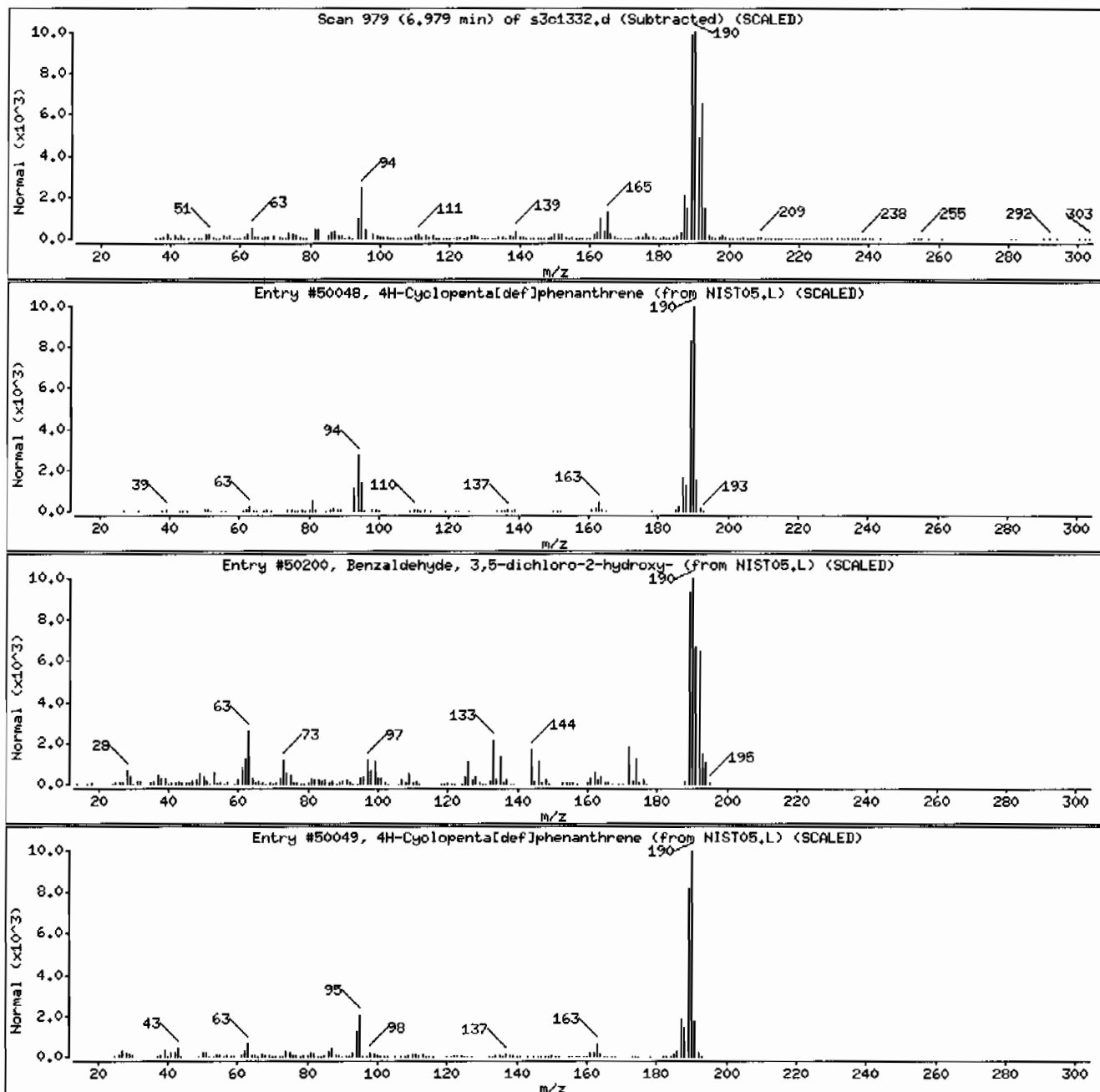
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50048	70	C15H10	190
Benzaldehyde, 3,5-dichloro-2-hydroxy-	90-60-8	NIST05.L	50200	64	C7H4Cl2O2	190
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50049	60	C15H10	190



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

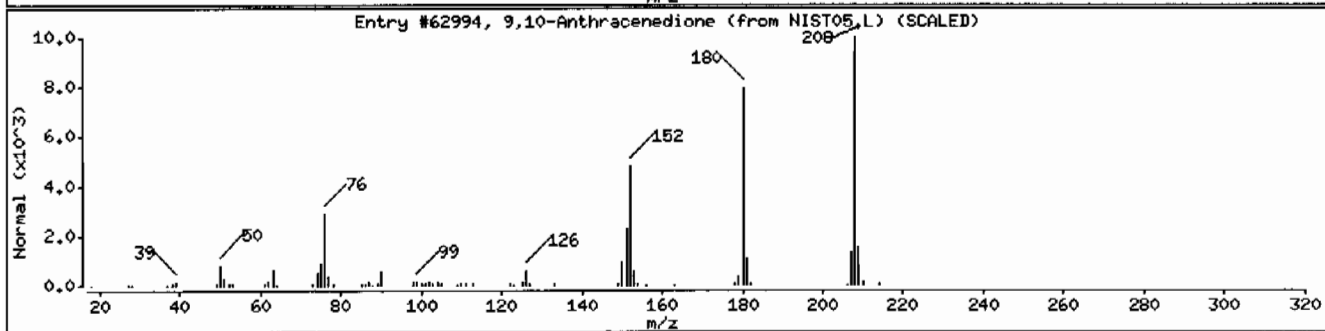
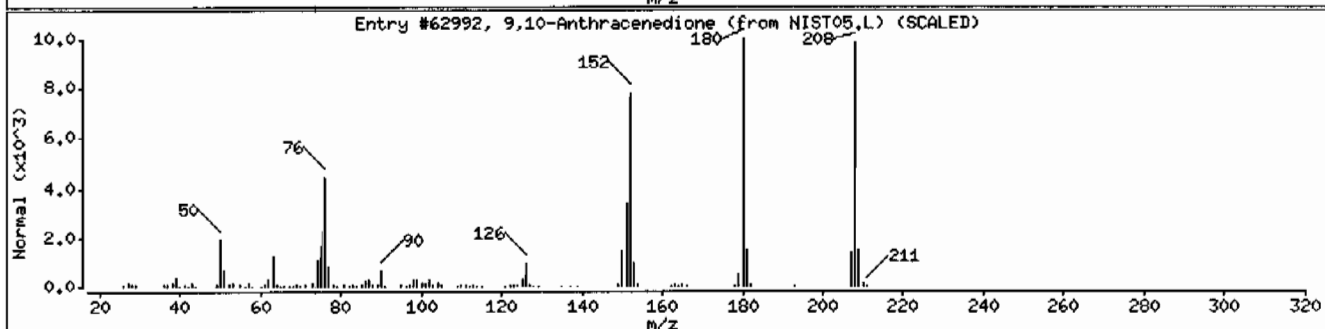
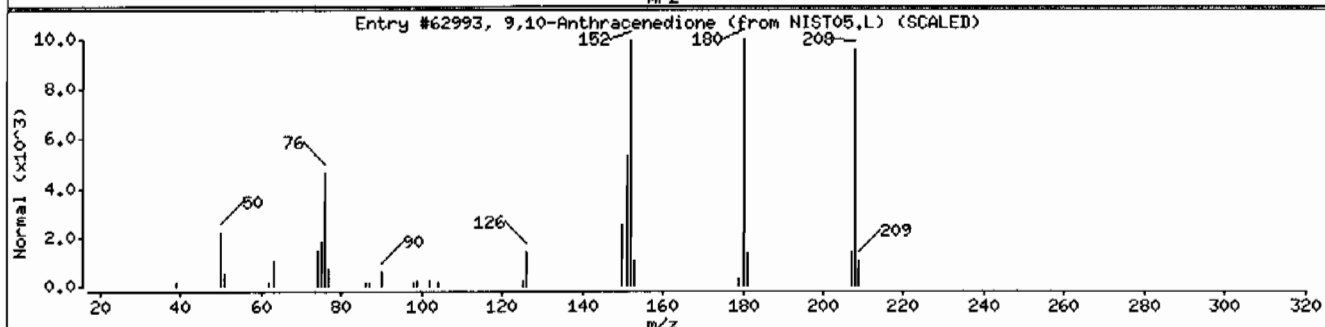
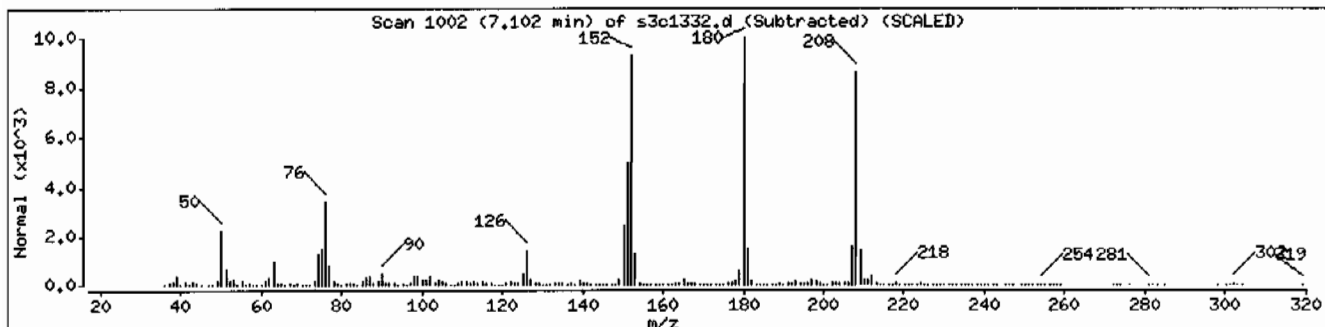
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,10-Anthracenedione	84-65-1	NIST05.L	62993	98	C14H8O2	208
9,10-Anthracenedione	84-65-1	NIST05.L	62992	96	C14H8O2	208
9,10-Anthracenedione	84-65-1	NIST05.L	62994	95	C14H8O2	208



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

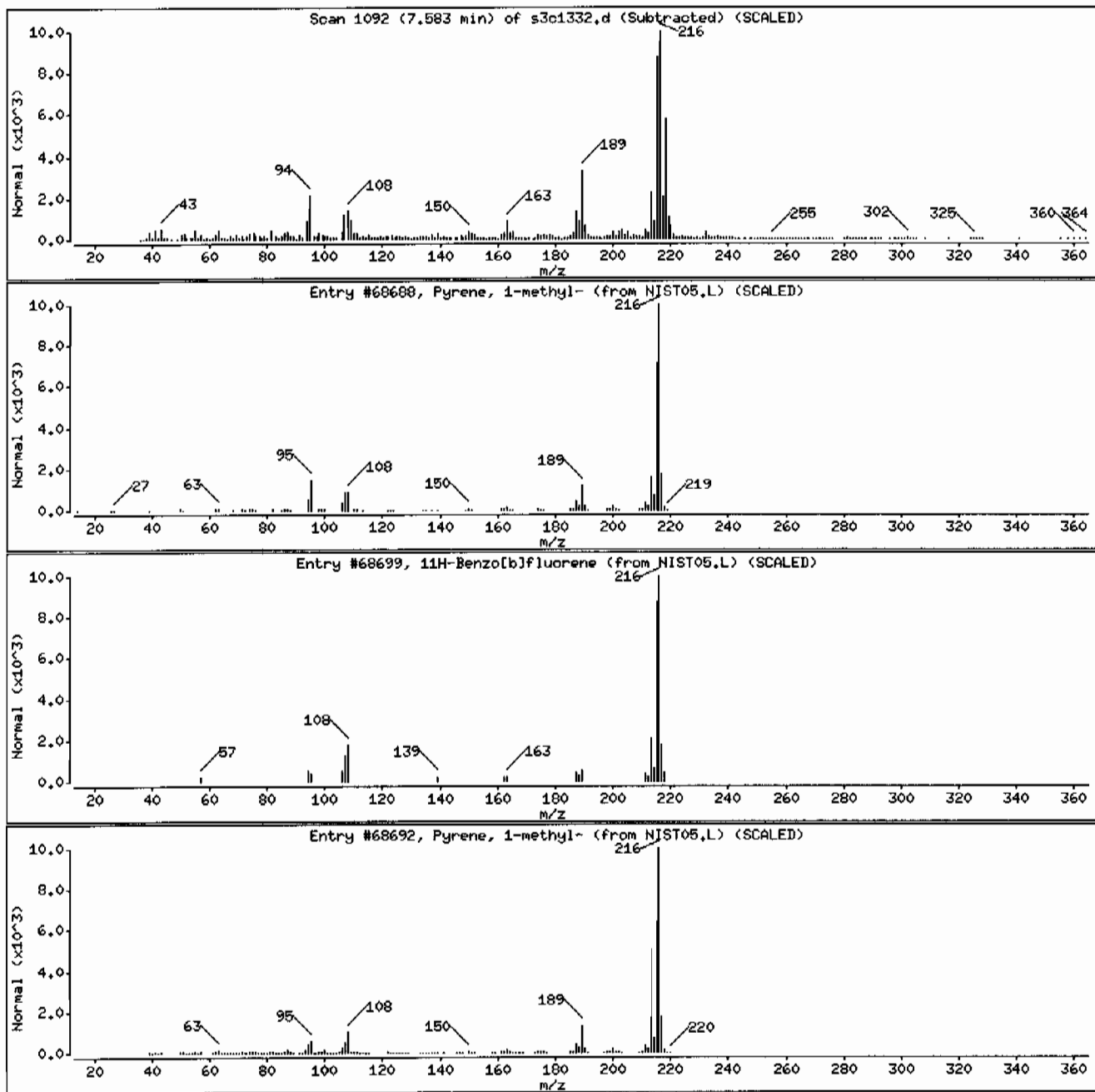
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	96	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68699	92	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68692	90	C17H12	216



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3,i

Sample Info: 12481970091960459141SVHF11ILANL

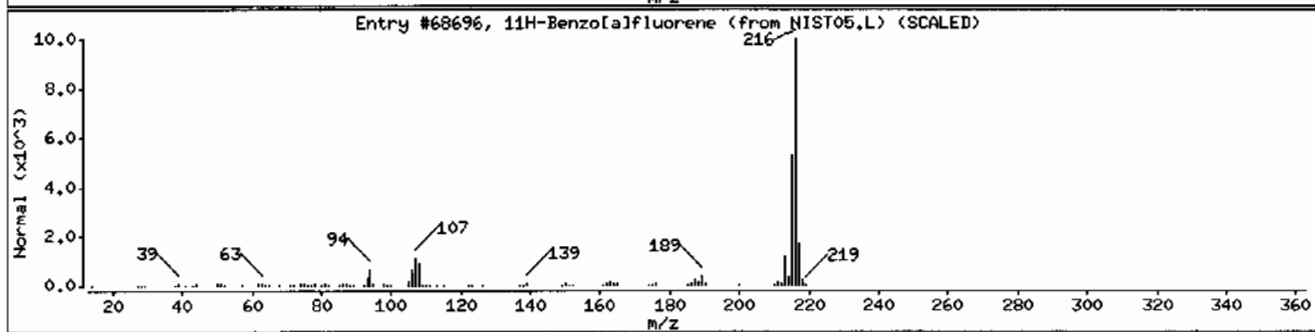
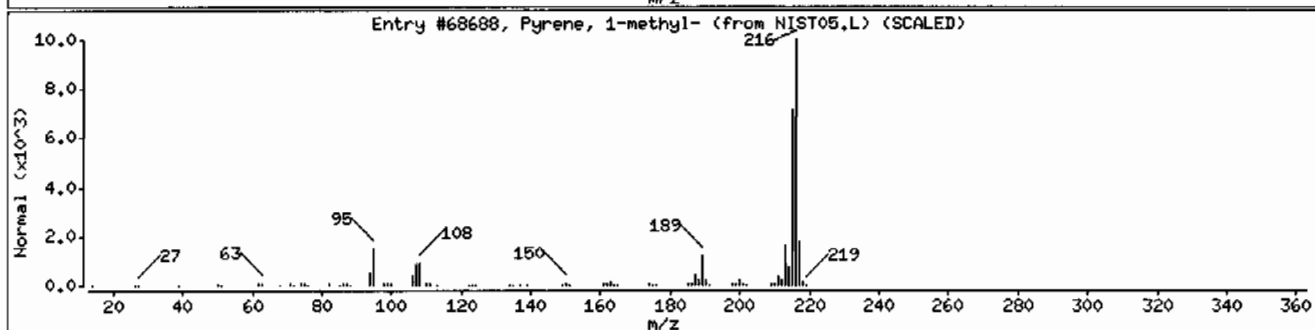
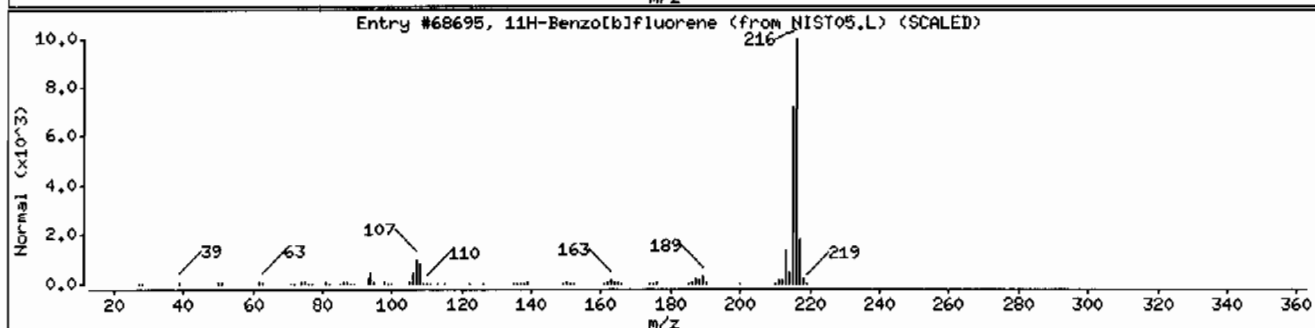
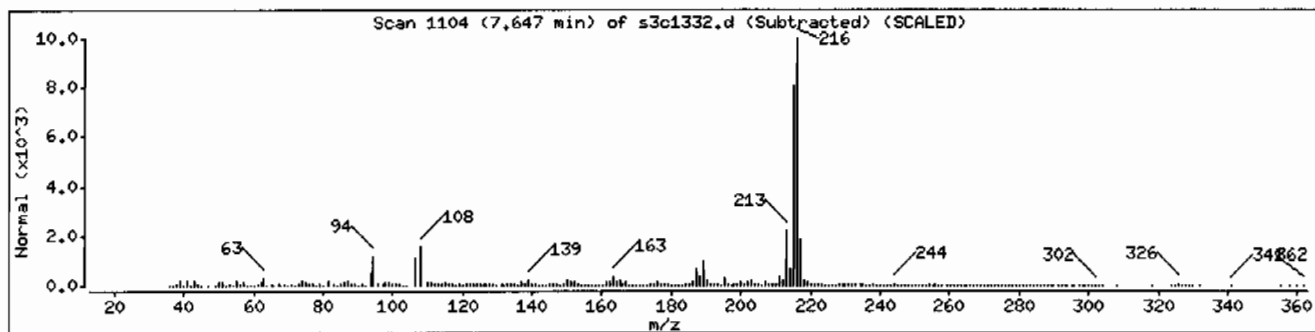
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	96	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	95	C17H12	216
11H-Benzo[a]fluorene	238-84-6	NIST05.L	68696	95	C17H12	216



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

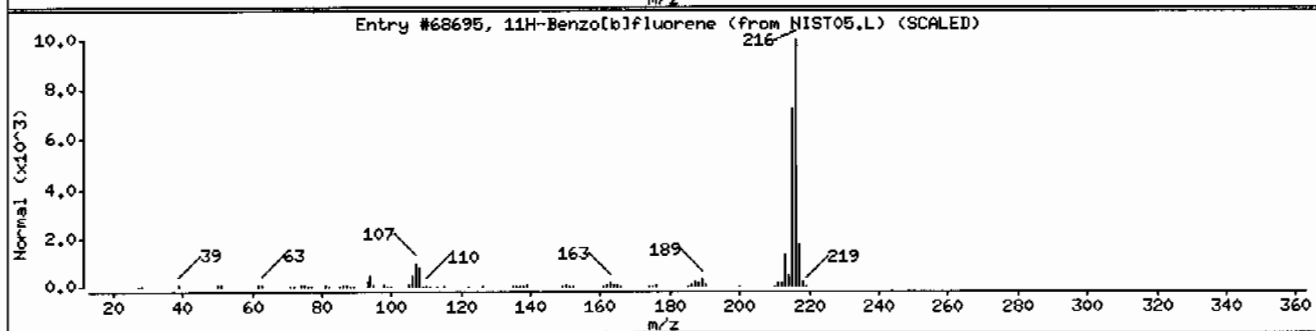
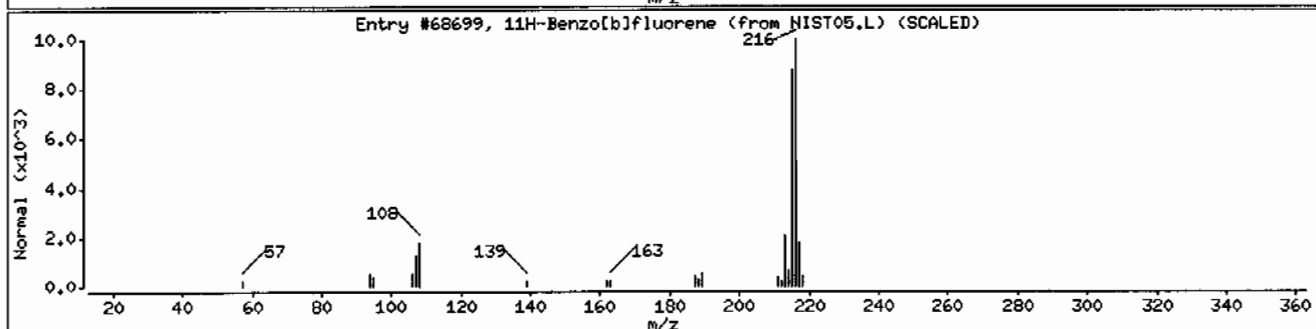
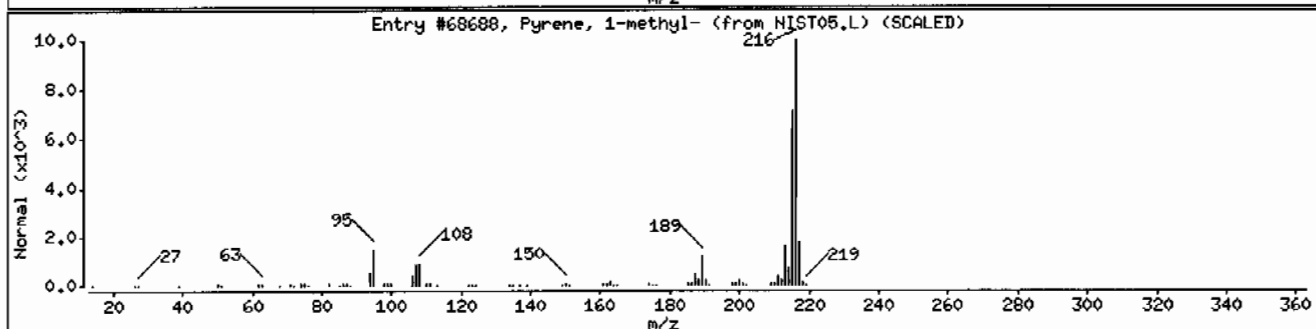
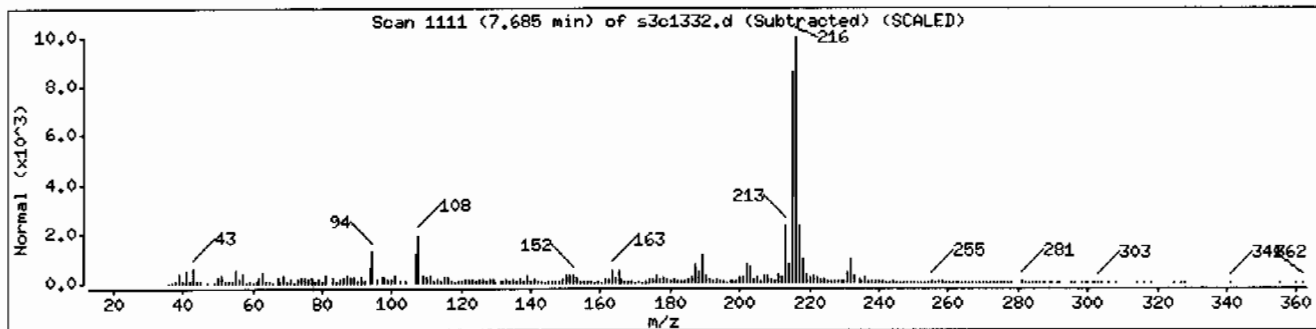
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	96	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68699	95	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	93	C17H12	216



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3,i

Sample Info: I2481970091960459141SVMF11ILANL

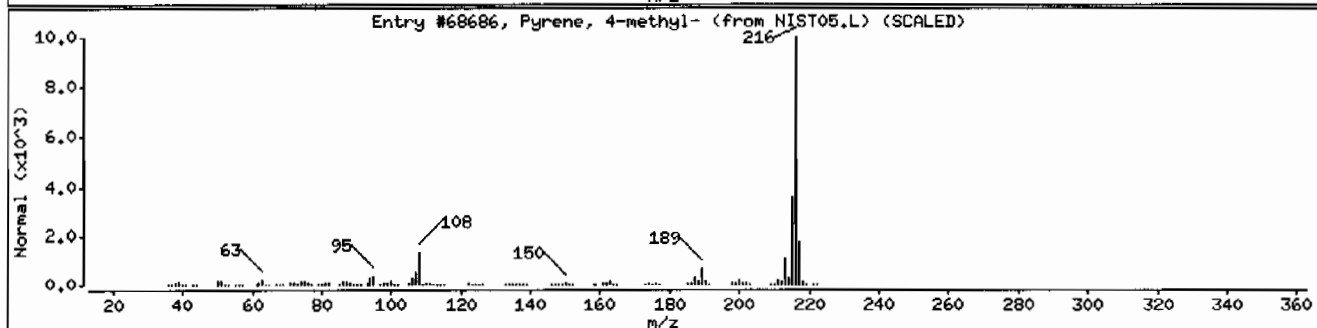
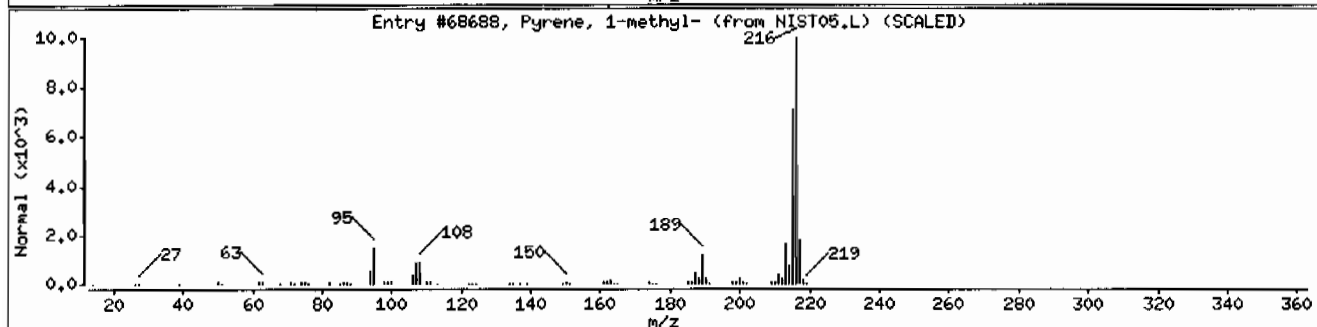
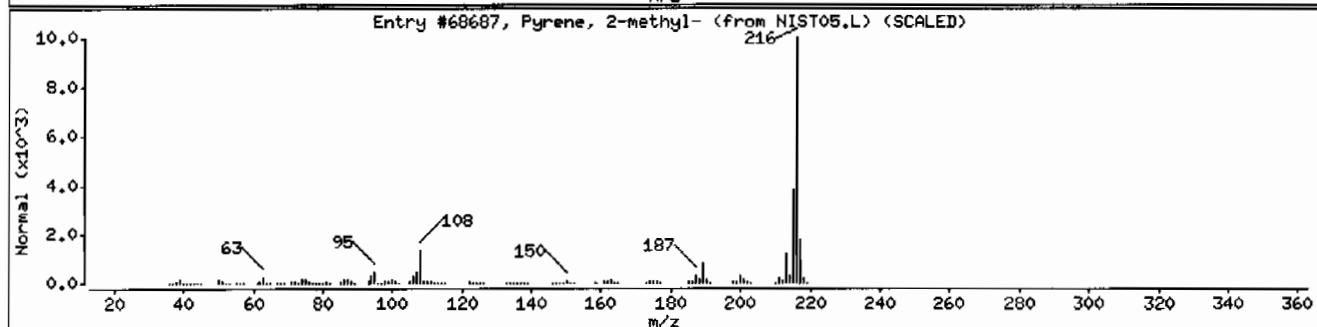
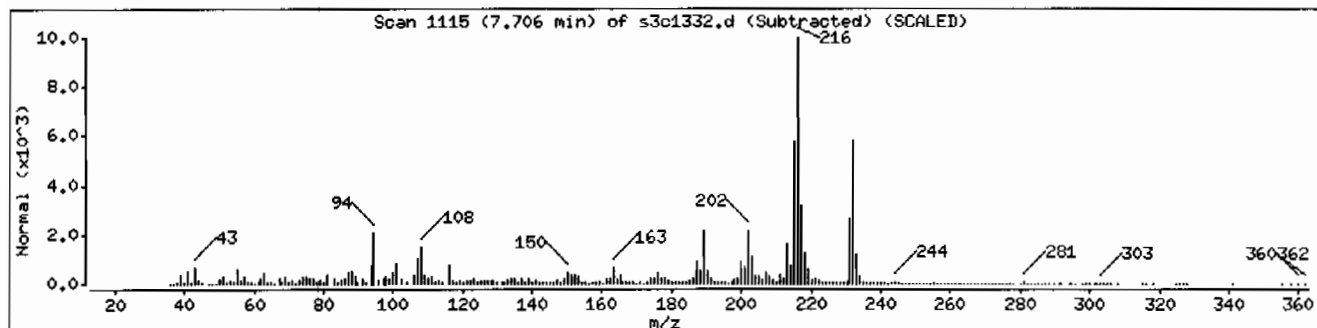
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68687	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	90	C17H12	216
Pyrene, 4-methyl-	3353-12-6	NIST05.L	68686	87	C17H12	216



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

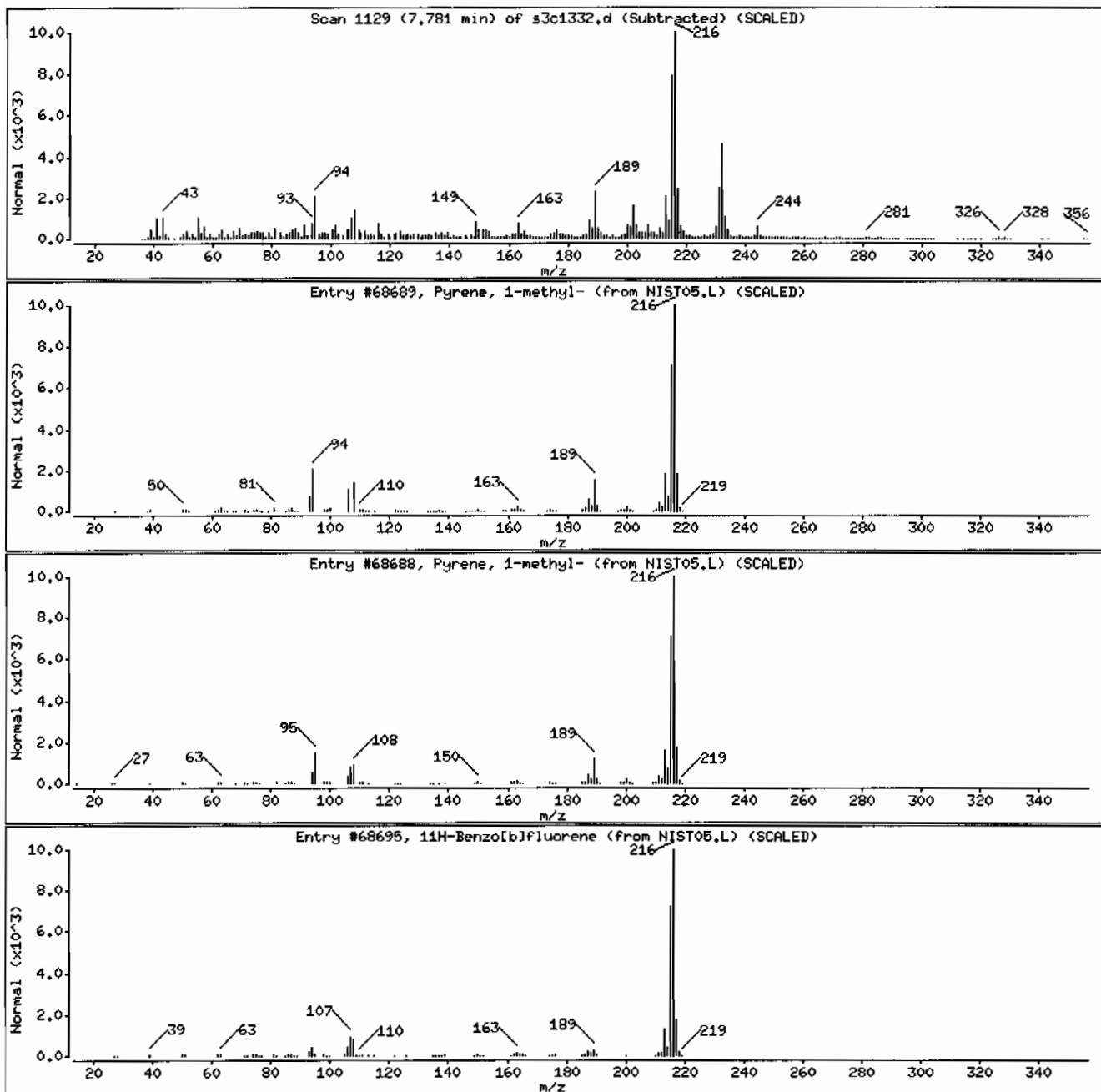
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	98	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	96	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	93	C17H12	216



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

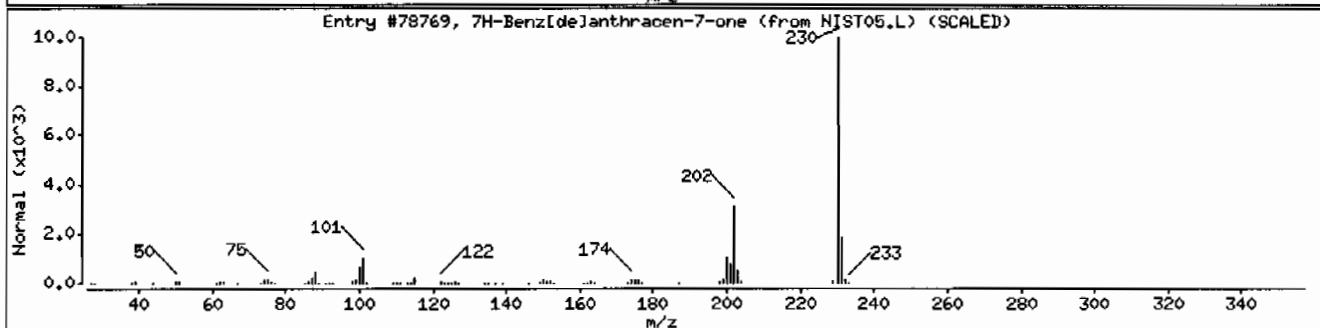
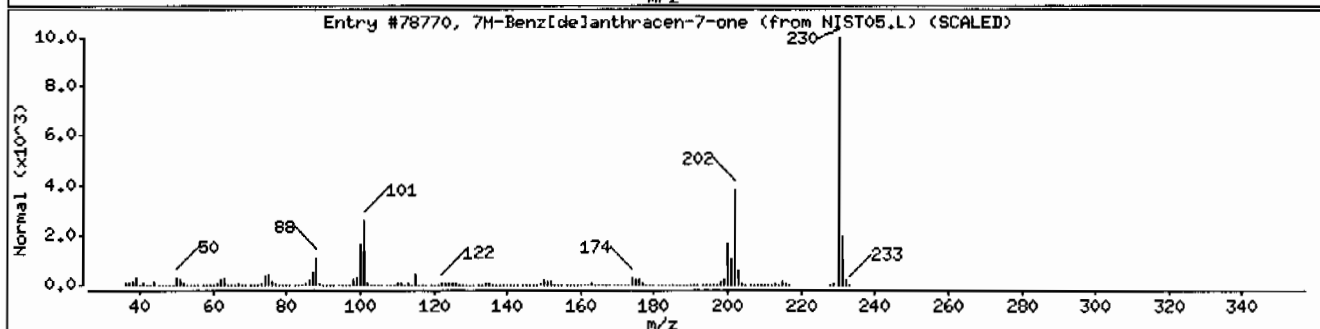
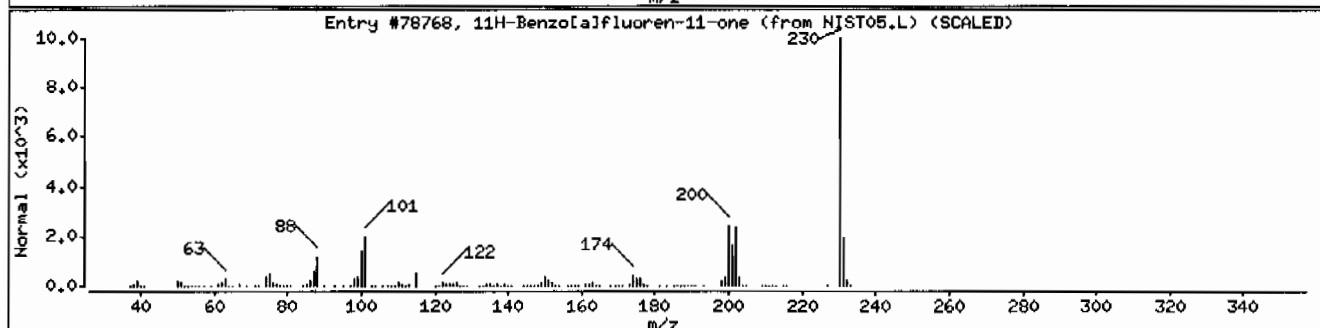
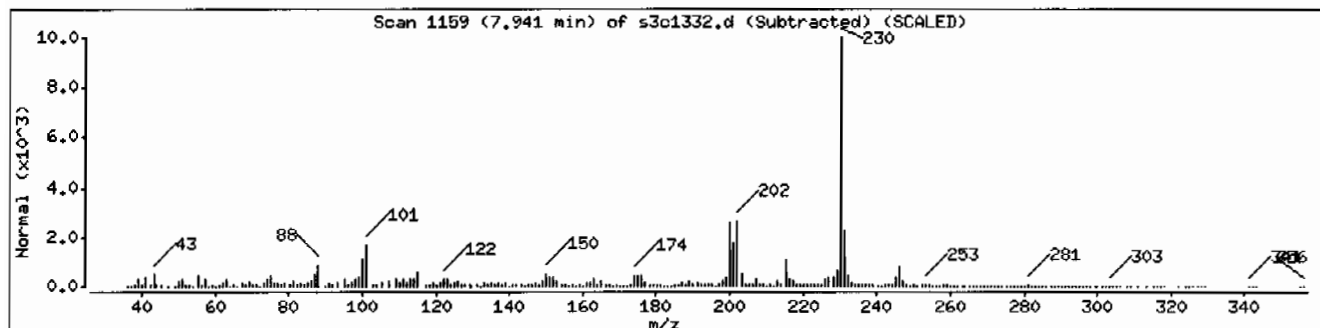
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluoren-11-one	479-79-8	NIST05.L	78768	97	C17H10O	230
7H-Benz[de]anthracen-7-one	82-05-3	NIST05.L	78770	76	C17H10O	230
7H-Benz[de]anthracen-7-one	82-05-3	NIST05.L	78769	72	C17H10O	230



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

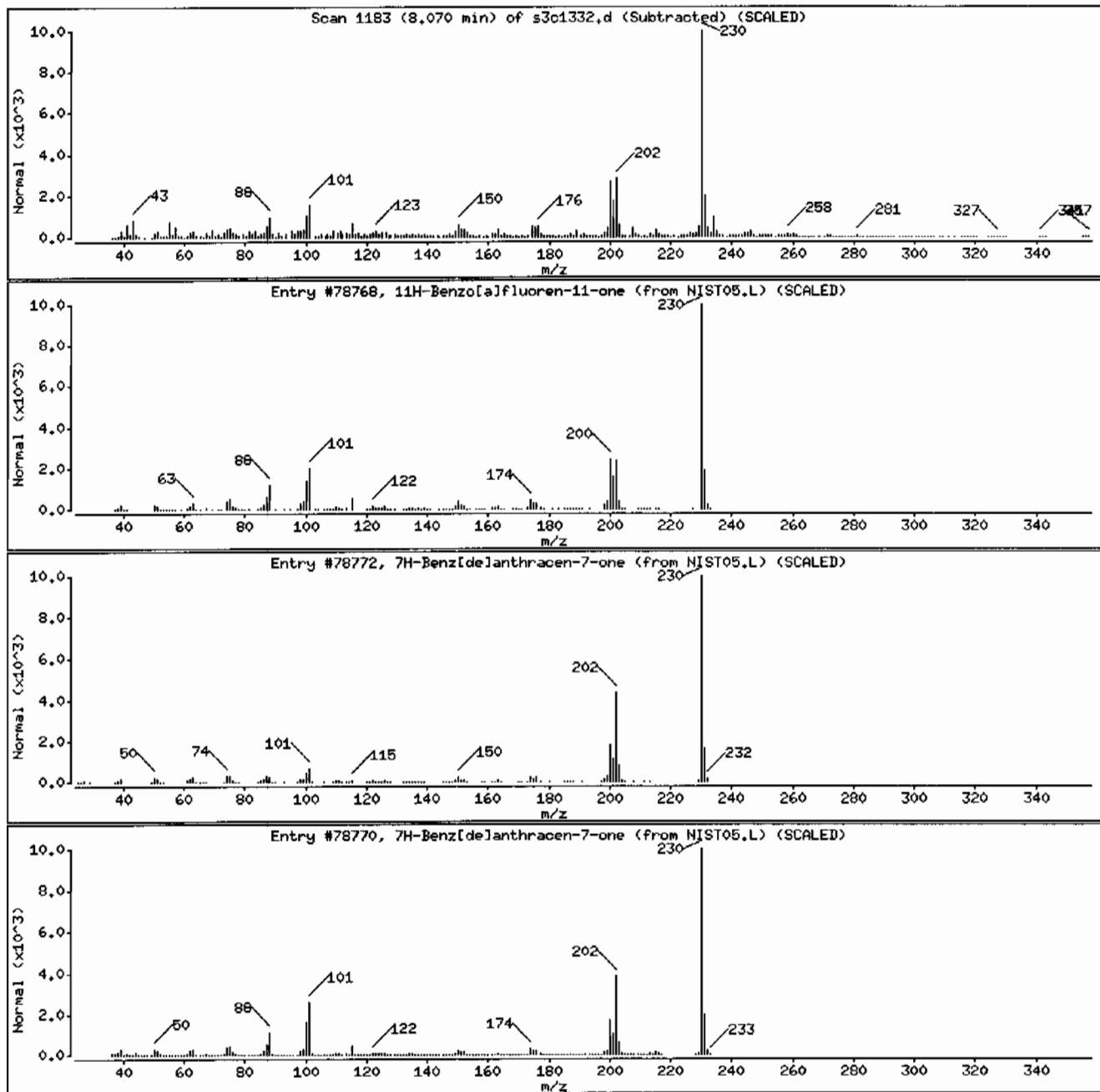
Volume Injected (UL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluoren-11-one	479-79-8	NIST05.L	78768	97	C17H10O	230
7H-Benz[de]anthracen-7-one	82-05-3	NIST05.L	78772	90	C17H10O	230
7H-Benz[de]anthracen-7-one	82-05-3	NIST05.L	78770	80	C17H10O	230



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: I2481970091960459141SVHF111LANL

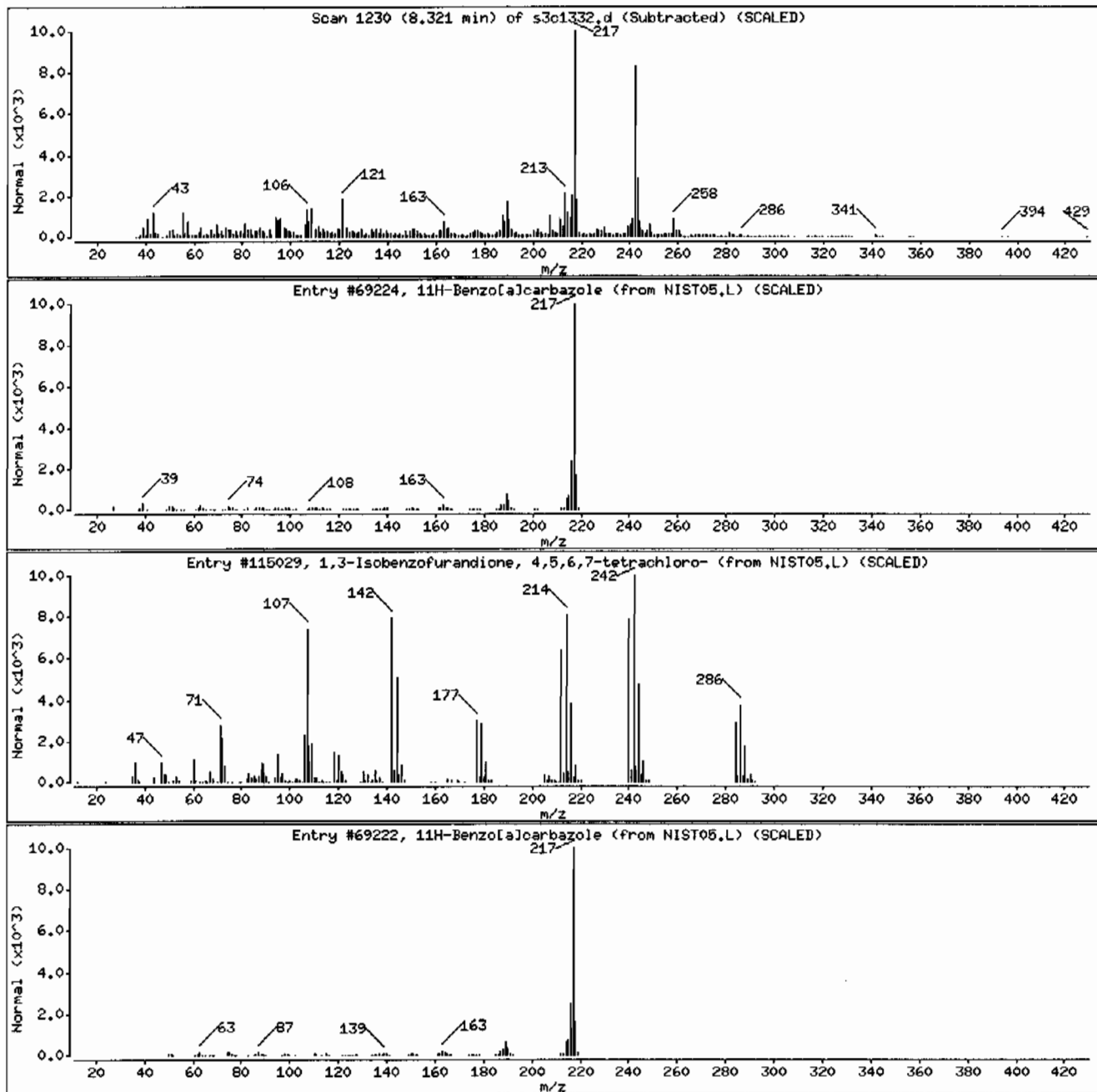
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]carbazole	239-01-0	NIST05.L	69224	80	C16H11N	217
1,3-Isobenzofurandione, 4,5,6,7-tetrachl	117-08-8	NIST05.L	115029	43	C8Cl4O3	284
11H-Benzo[a]carbazole	239-01-0	NIST05.L	69222	42	C16H11N	217



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

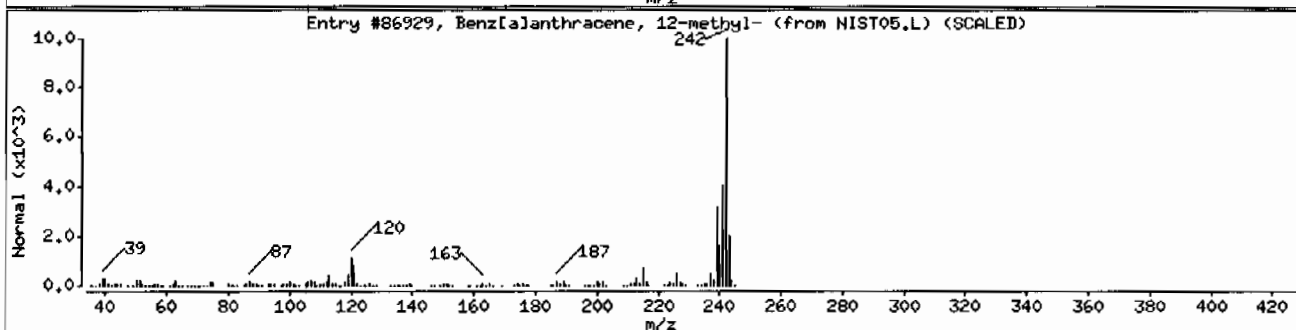
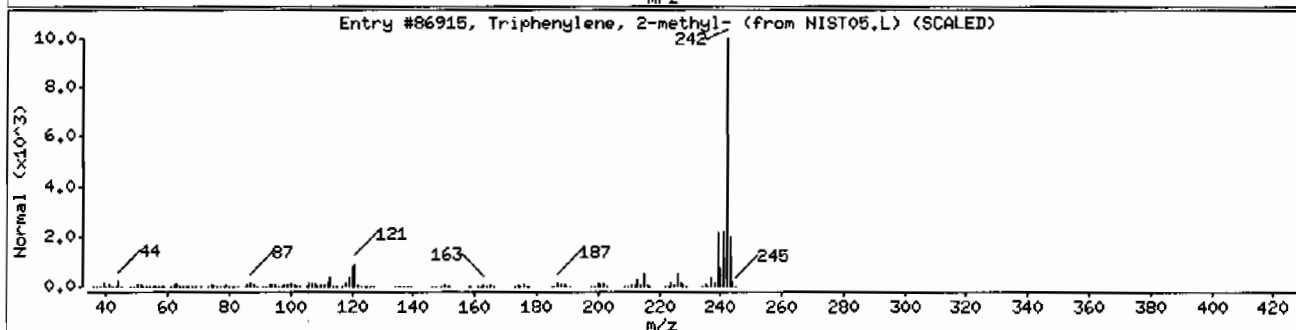
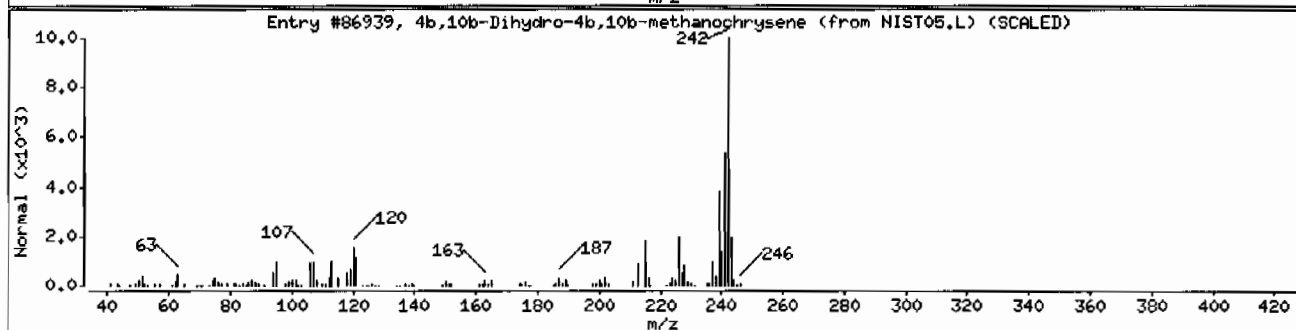
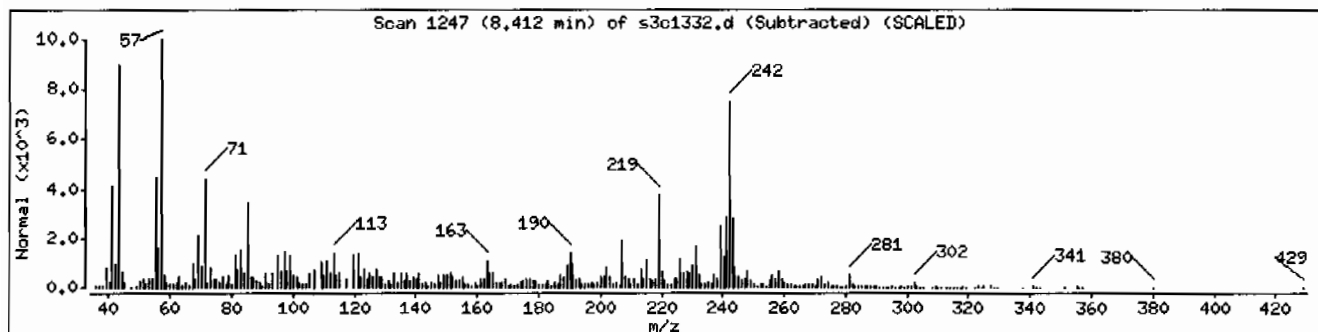
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4b,10b-Dihydro-4b,10b-methanochrysene	71949-03-6	NIST05.L	86939	86	C19H14	242
Triphenylene, 2-methyl-	1705-84-6	NIST05.L	86915	83	C19H14	242
Benz[<i>a</i>]anthracene, 12-methyl-	2422-79-9	NIST05.L	86929	49	C19H14	242



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVMF11ILANL

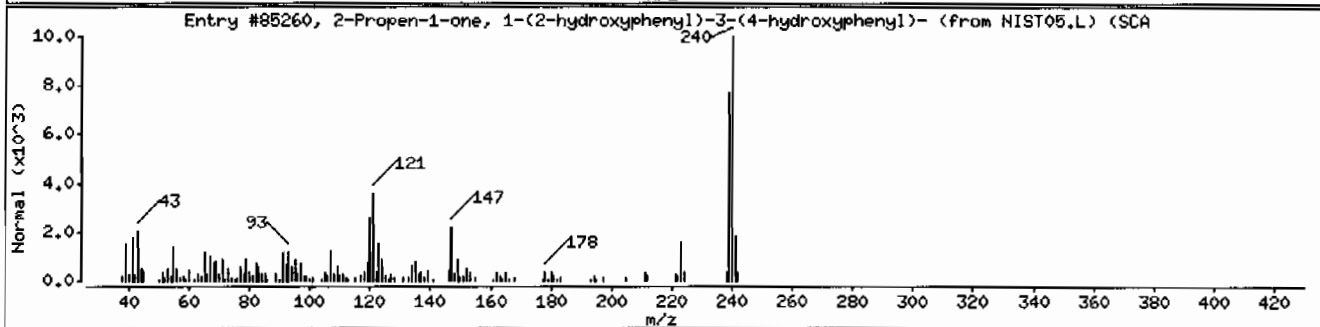
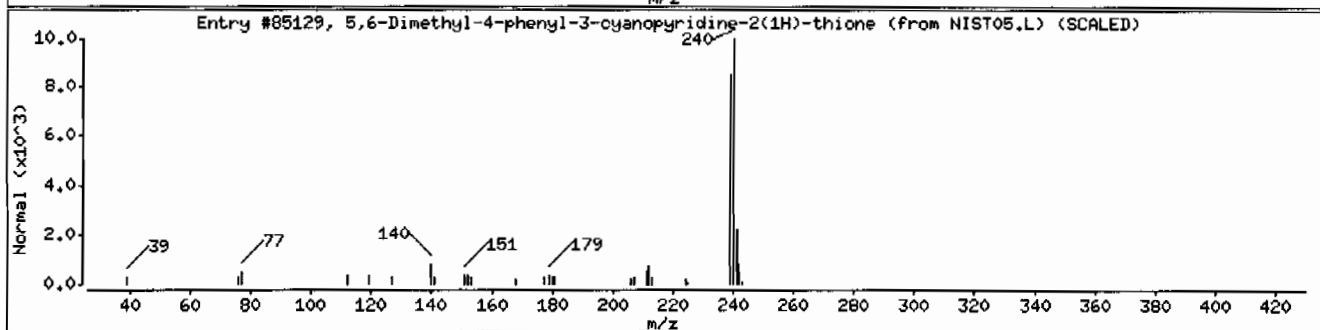
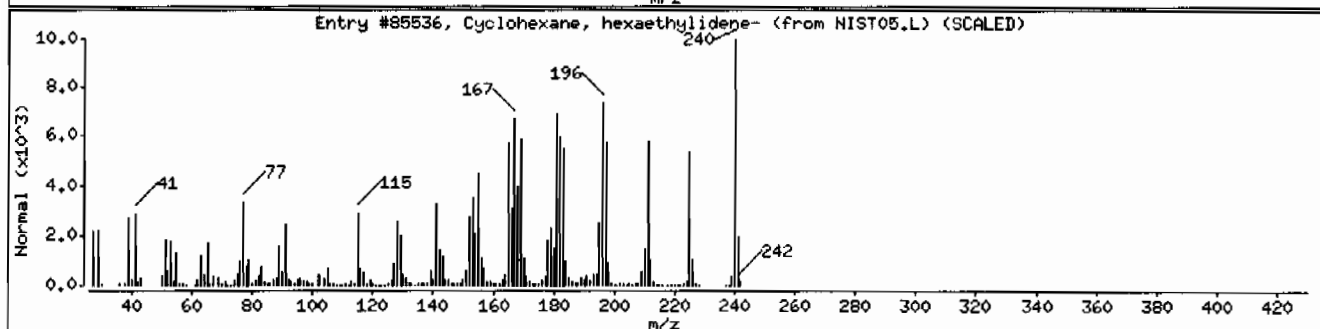
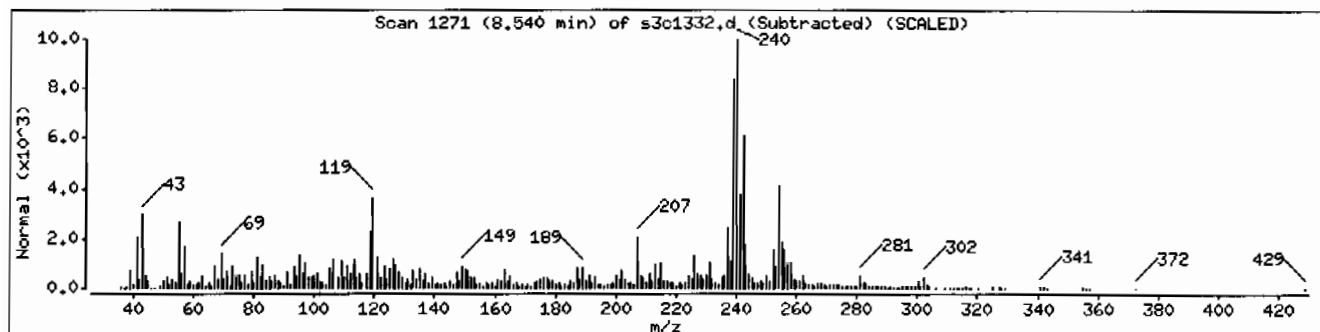
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, hexaethylidene-	1482-93-5	NIST05.L	85536	90	C18H24	240
5,6-Dimethyl-4-phenyl-3-cyanopyridine-2(	94639-18-6	NIST05.L	85129	46	C14H12N2S	240
2-Propen-1-one, 1-(2-hydroxyphenyl)-3-(4	13323-66-5	NIST05.L	85260	38	C15H12O3	240



Date: 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVMF11ILANL

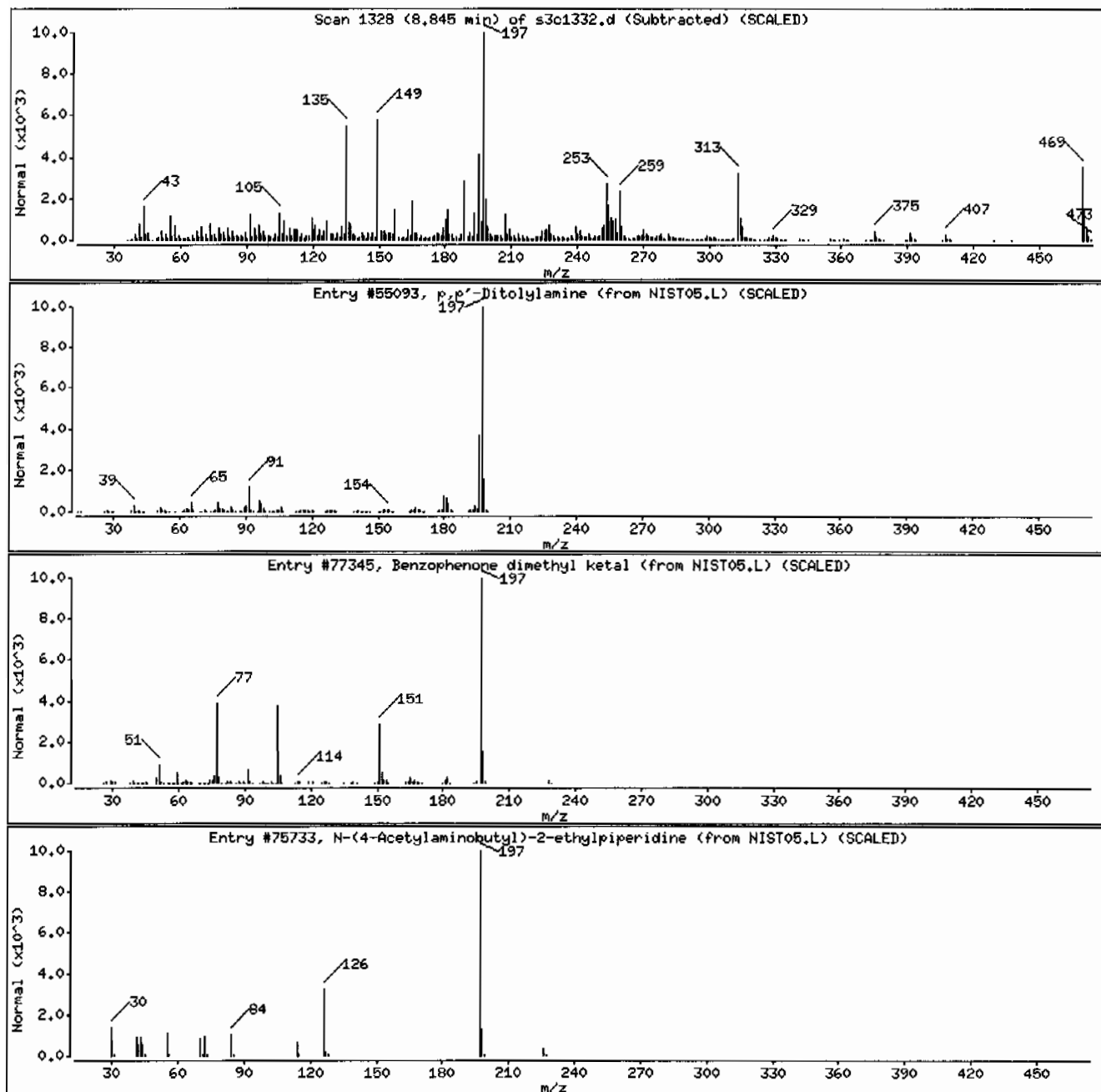
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
p,p'-Ditolyamine	620-93-9	NIST05.L	55093	38	C14H16N	197
Benzophenone dimethyl ketal	2235-01-0	NIST05.L	77345	25	C15H16O2	228
N-(4-Acetylaminoethyl)-2-ethylpiperidine	1000306-09-6	NIST05.L	75733	22	C13H26N2O	226



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVMF111LANL

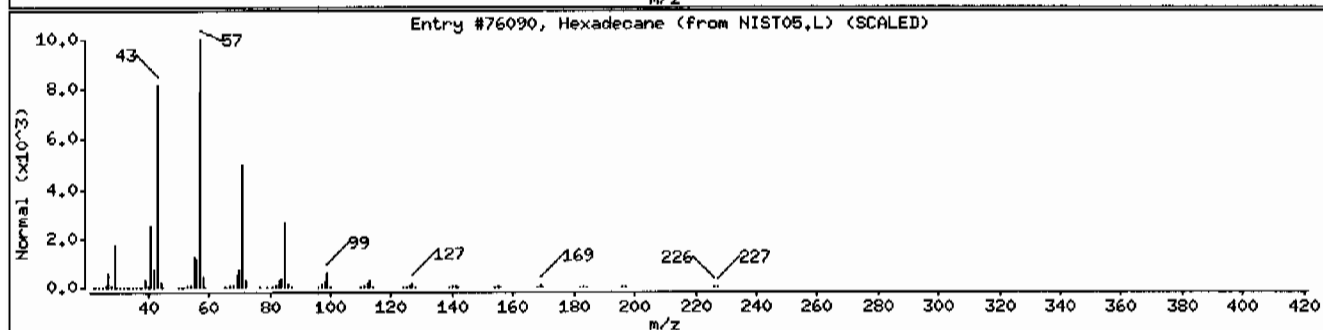
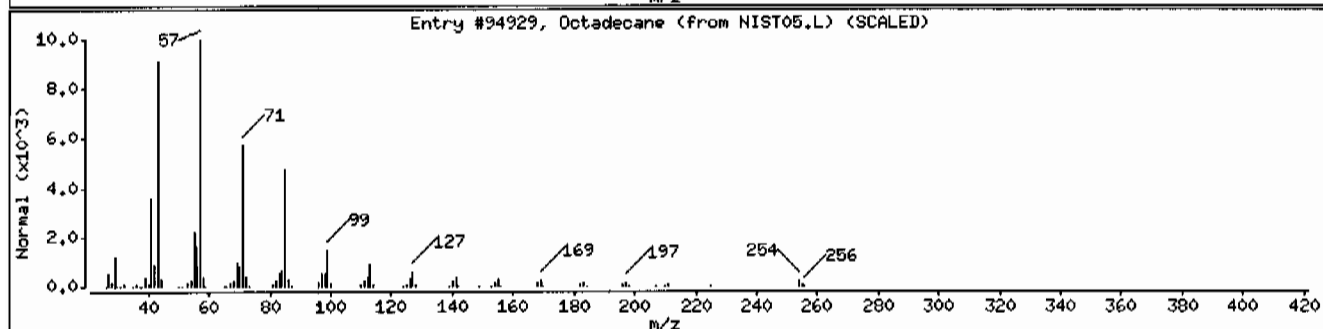
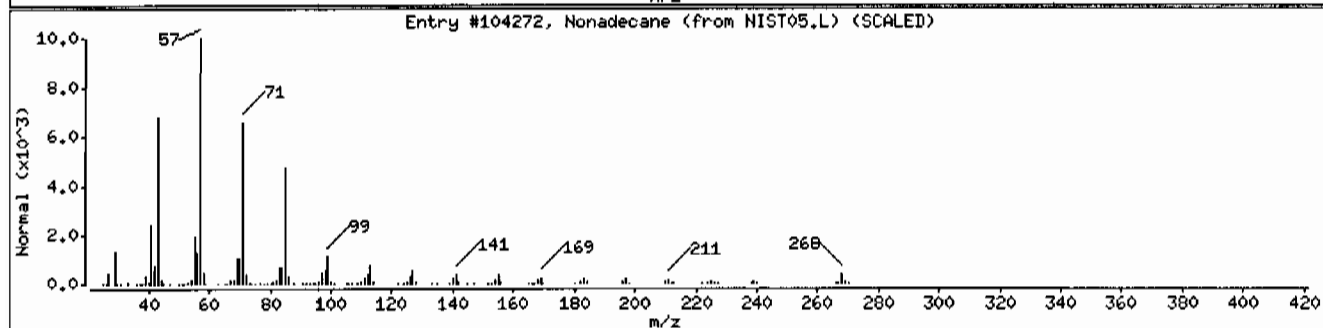
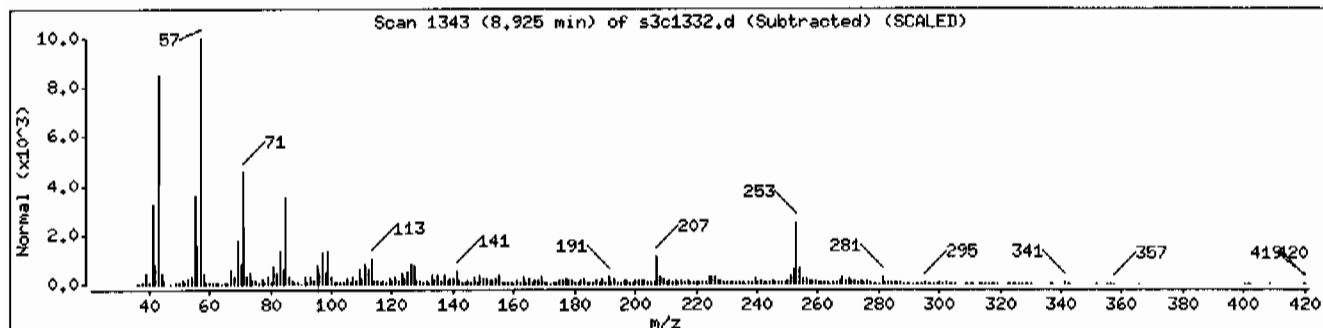
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonadecane	629-92-5	NIST05.L	104272	96	C19H40	268
Octadecane	593-45-3	NIST05.L	94929	93	C18H38	254
Hexadecane	544-76-3	NIST05.L	76090	90	C16H34	226



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: MSD3.i

Sample Info: 12481970091960459141SVHF111LANL

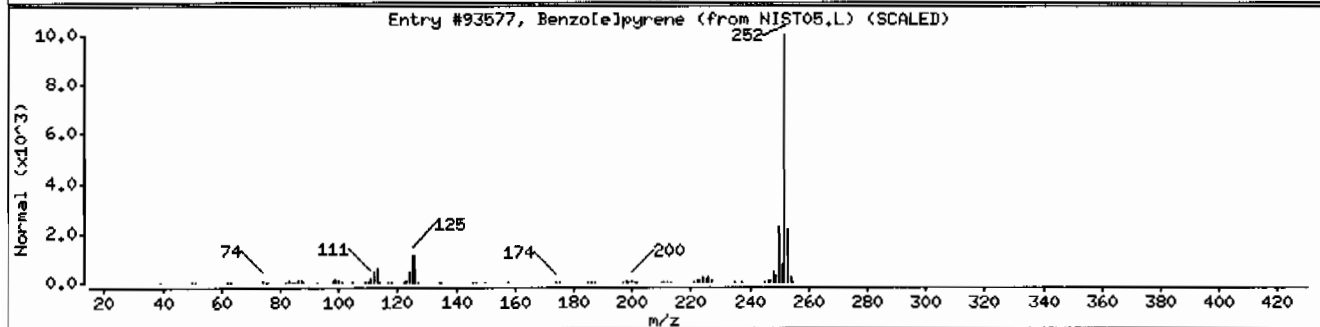
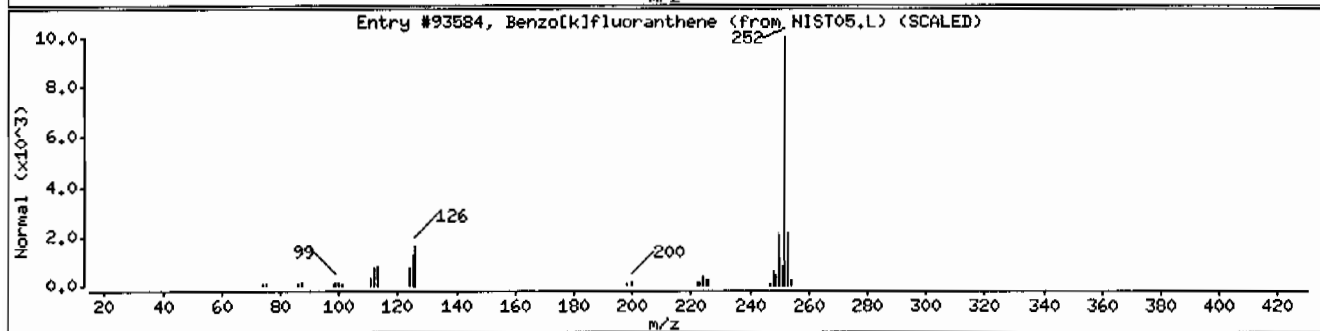
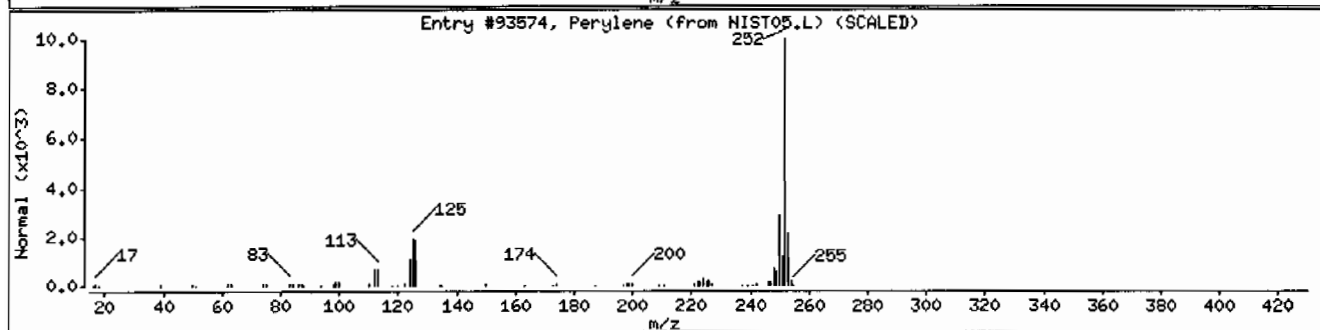
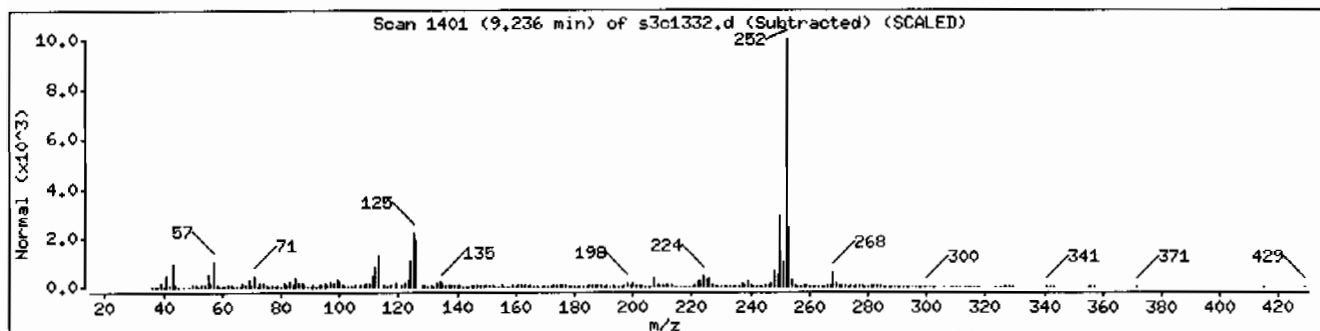
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NIST05.L	93574	99	C20H12	262
Benzo[k]fluoranthene	207-08-9	NIST05.L	93584	98	C20H12	252
Benzo[e]pyrene	192-97-2	NIST05.L	93577	98	C20H12	252



Date : 13-MAR-2010 21:07

Client ID: RE36-10-7431

Instrument: HSD3.i

Sample Info: 12481970091960459141SVHF11ILANL

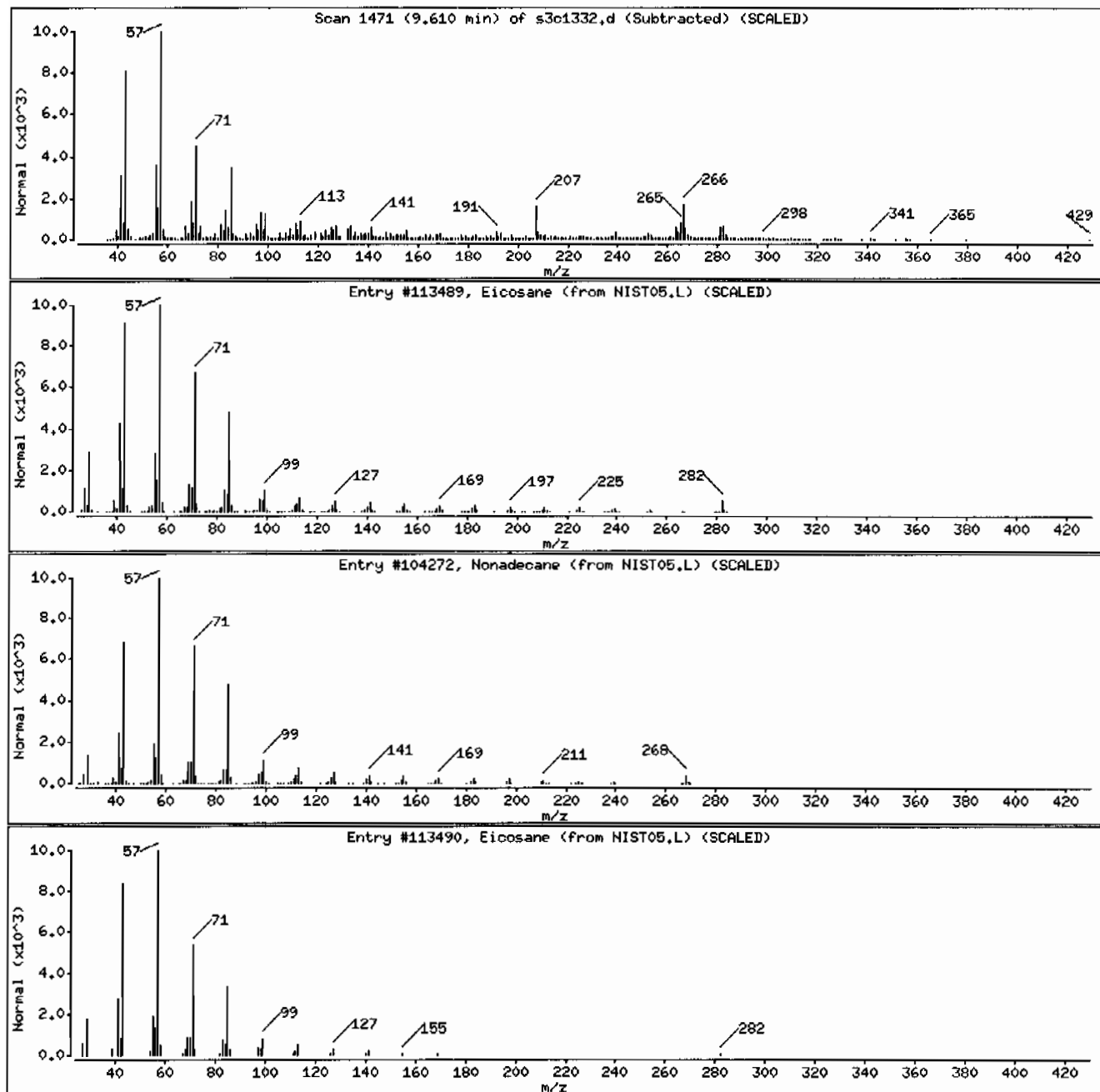
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST05.L	113489	97	C20H42	282
Nonadecane	629-92-5	NIST05.L	104272	95	C19H40	268
Eicosane	112-95-8	NIST05.L	113490	93	C20H42	282



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

SDG Number: 10-2121
Lab Sample ID: 248197009

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.08 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 23
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 40
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
129-00-0	Pyrene		75600	ug/kg	518	1730
85-01-8	Phenanthrene		85700	ug/kg	518	1730
206-44-0	Fluoranthene		79800	ug/kg	518	1730

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
238-84-6	11H-Benzo[a]fluorene	7.64	6950	ug/kg	97	NJ
	Unknown	8.85	14000	ug/kg		J
198-55-0	Perylene	9.23	14100	ug/kg	99	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1331.d
Report Date: 17-Mar-2010 12:13

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1331.d
Lab Smp Id: 248197009 Client Smp ID: RE36-10-7431DL
Inj Date : 13-MAR-2010 20:47
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197009|960459|40|SVMF|2|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 31
Dil Factor: 40.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	40.00000	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	23.03650	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473 (1.000)	647687	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329 (1.000)	2482222	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570 (1.000)	1324318	40.0000	
* 67 Phenanthrene-d10	188	6.593	6.592 (1.000)	2187446	40.0000	
* 91 Chrysene-d12	240	8.171	8.169 (1.000)	1309766	40.0000	
* 98 Perylene-d12	264	9.332	9.330 (1.000)	706072	40.0000	
\$ 3 2-Fluorophenol	112	2.684	2.682 (0.772)	54953	3.77541	6520 (R)
\$ 5 Phenol-d5	99	3.213	3.206 (0.925)	63778	3.72963	6440 (R)
\$ 20 Nitrobenzene-d5	82	3.834	3.837 (0.886)	31159	2.20504	3810 (R)
\$ 39 2-Fluorobiphenyl	172	5.069	5.073 (0.911)	69358	2.05849	3560 (R)
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126 (1.101)	9212	3.03379	5240 (R)
\$ 81 p-Terphenyl-d14	244	7.524	7.522 (0.921)	52875	2.60443	4500 (R)

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
47 Acenaphthene	154	5.588	5.591	(1.004)	175461	5.38111	9300
79 Pyrene	202	7.465	7.463	(0.914)	1659664	43.7612	75600
30 Naphthalene	128	4.342	4.340	(1.004)	213578	4.33665	7490
34 2-Methylnaphthalene	142	4.823	4.821	(1.115)	63676	1.99080	3440
49 Dibenzofuran	168	5.711	5.714	(1.026)	183609	4.44862	7690(a)
53 Fluorene	166	5.957	5.960	(1.070)	218394	6.10231	10500
68 Phenanthrene	178	6.610	6.608	(1.002)	2459095	49.6279	85700
69 Anthracene	178	6.636	6.640	(1.006)	423947	8.73858	15100
76 Fluoranthene	202	7.332	7.324	(1.112)	2074069	46.2110	79800
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	535829	17.6158	30400
92 Chrysene	228	8.182	8.185	(1.001)	583431	18.7592	32400
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	519543	28.9894	50100
97 Benzo(a)pyrene	252	9.279	9.277	(0.994)	233423	15.1614	26200
99 Indeno(1,2,3-cd)pyrene	276	10.594	10.603	(1.135)	88916	6.69798	11600
101 Benzo(ghi)perylene	276	10.990	10.993	(1.178)	76171	6.98460	12100

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1331.d

Report Date: 03/14/2010 14:36

Lab. ID: 248197009

SampleType: SAMPLE

Injection Date: 13-MAR-2010 20:47

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197009|960459|40|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 40.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
27 Benzoic acid			CAS#: 65-85-0			
105	241	4.14	4.12	80-120	100	()
122	1327	4.17	4.12	55-115	550	(Q)
77	191	4.14	4.12	29- 89	79	()

30 Naphthalene			CAS#: 91-20-3			
128	213578	4.34	4.34	80-120	100	()
129	23341	4.34	4.34	0- 42	11	()
127	27300	4.34	4.34	0- 42	13	()

34 2-Methylnaphthalene			CAS#: 91-57-6			
142	63676	4.82	4.82	80-120	100	()
141	54435	4.82	4.82	55-115	85	()

43 Dimethylphthalate			CAS#: 131-11-3			
163	238198	5.57	5.35	80-120	100	(T)
164	1324318	5.57	5.35	0- 40	556	(QT)

44 2,6-Dinitrotoluene			CAS#: 606-20-2			
165	176025	5.57	5.40	80-120	100	(T)
63	16967	5.59	5.40	49-109	10	(QT)

45 Acenaphthylene			CAS#: 208-96-8			
152	87160	5.59	5.47	80-120	100	(T)
151	32188	5.59	5.47	0- 50	37	(T)
153	186185	5.59	5.47	0- 43	214	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
47 Acenaphthene			CAS#: 83-32-9			
154	175461	5.59	5.59	80-120	100	()
153	186006	5.59	5.59	71-131	106	()
152	87160	5.59	5.59	18- 78	50	()

49 Dibenzofuran			CAS#: 132-64-9			
168	183609	5.71	5.71	80-120	100	()
139	81737	5.71	5.71	13- 73	45	()

50 2,4-Dinitrotoluene			CAS#: 121-14-2			
165	176025	5.57	5.69	80-120	100	(T)
89	2472	5.57	5.69	48-108	1	(QT)
63	15930	5.59	5.69	21- 81	9	(QT)

52 4-Nitrophenol			CAS#: 100-02-7			
139	1729	5.59	5.63	80-120	100	()
109	3279	5.57	5.63	39- 99	190	(QT)
65	6380	5.57	5.63	60-120	369	(QT)

53 Fluorene			CAS#: 86-73-7			
166	218394	5.96	5.96	80-120	100	()
165	199093	5.96	5.96	62-122	91	()
167	32159	5.96	5.96	0- 44	15	()

55 2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1			
198	116	6.17	5.98	80-120	100	(T)
105	245	6.14	5.98	14- 74	210	(QT)
51	4008	6.12	5.98	40-100	3430	(QT)

56 p-Nitroaniline			CAS#: 100-01-6			
138	3721	5.96	5.97	80-120	100	()
108	323	5.96	5.97	35- 95	9	(Q)
92	326	5.96	5.97	5- 65	9	()

68 Phenanthrene			CAS#: 85-01-8			
178	2459095	6.61	6.61	80-120	100	()
179	411235	6.61	6.61	0- 46	17	()
176	483902	6.61	6.61	0- 49	20	()

69 Anthracene			CAS#: 120-12-7			
178	423947	6.64	6.64	80-120	100	()
179	100273	6.64	6.64	0- 46	24	()
176	74470	6.64	6.64	0- 49	18	()

76 Fluoranthene			CAS#: 206-44-0			
202	2074069	7.33	7.32	80-120	100	()
203	375148	7.33	7.32	0- 47	18	()
101	287307	7.33	7.32	0- 43	14	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
79 Pyrene		CAS#: 129-00-0				
202	1659664	7.47	7.46	80-120	100	()
200	356711	7.47	7.46	0- 51	21	()
101	273239	7.47	7.46	0- 46	16	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	535829	8.16	8.16	80-120	100	()
226	146702	8.16	8.16	0- 57	27	()
229	148663	8.16	8.16	0- 50	28	()

92 Chrysene		CAS#: 218-01-9				
228	583431	8.18	8.19	80-120	100	()
229	138313	8.18	8.19	0- 50	24	()
226	175317	8.18	8.19	0- 59	30	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	519543	8.97	8.97	80-120	100	()
253	118995	8.97	8.97	0- 52	23	()
125	89719	8.97	8.96	0- 44	17	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	520606	8.97	8.99	80-120	100	()
253	122474	8.97	8.99	0- 52	24	()
125	89719	8.97	8.99	0- 48	17	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	233423	9.28	9.28	80-120	100	()
253	57770	9.28	9.28	0- 52	25	()
125	40840	9.27	9.28	0- 48	17	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	88916	10.59	10.60	80-120	100	()
138	34351	10.59	10.60	14- 74	39	()

100 Dibenzo(a,h)anthracene		CAS#: 53-70-3				
278	25819	10.60	10.61	80-120	100	()
139	3254	10.60	10.60	0- 60	13	()

101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	76171	10.99	10.99	80-120	100	()
138	29042	10.99	10.99	9- 69	38	()

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD3.i/s031310.b/s3c1331.d
Report Date: 17-Mar-2010 12:13

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1331.d
Lab Smp Id: 248197009 Client Smp ID: RE36-10-7431DL
Inj Date : 13-MAR-2010 20:47
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197009|960459|40|SVMF|2|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 31
Dil Factor: 40.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	40.00000	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	23.03650	% moisture

Cpnd Variable

Local Compound Variable

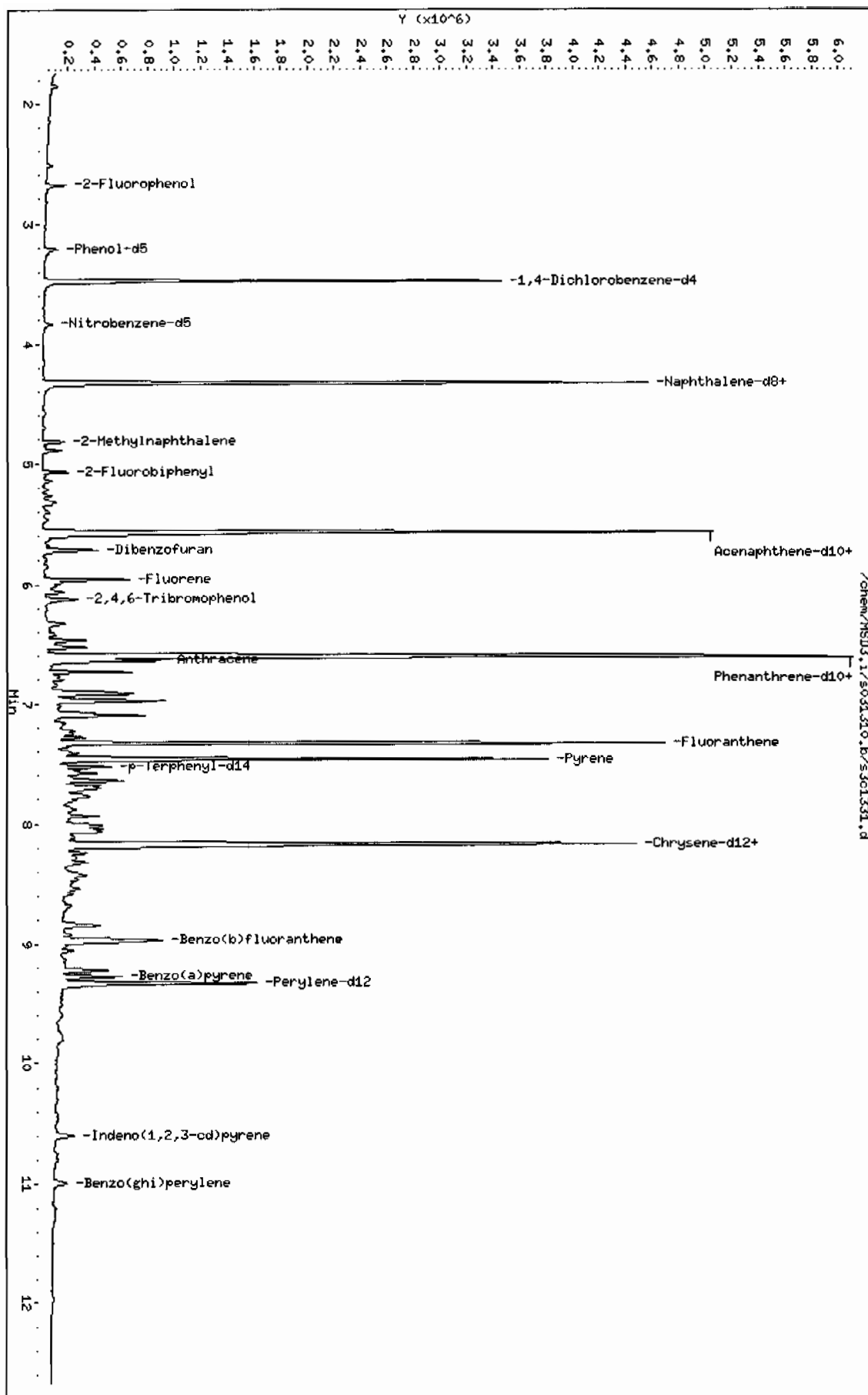
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.171	7168345	40.000
* 98 Perylene-d12	9.332	2305104	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
11H-Benzo[a]fluorene					CAS #: 238-84-6		
7.642	720751	4.02185637	6950	97	NIST05.L	68696	91

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
8.845	467295	8.10887660	14000	0		0	98
Perylene					CAS #: 198-55-0		
9.225	469882	8.15377187	14100	99	NIST05.L	93574	98

Data File: /chem/MSD3.i/s031310.b/s031331.d
 Date: 13-MAR-2010 20:47
 Client ID: RE36-10-7431DL
 Sample Info: 124819700919604591401SNF121LNL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Data File: /chem/MSD3.i/s031310.b/s3c1331.d

Page 2

Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 1248197009|960459140|SVHF12|LANL

Volume Injected (uL): 0.5

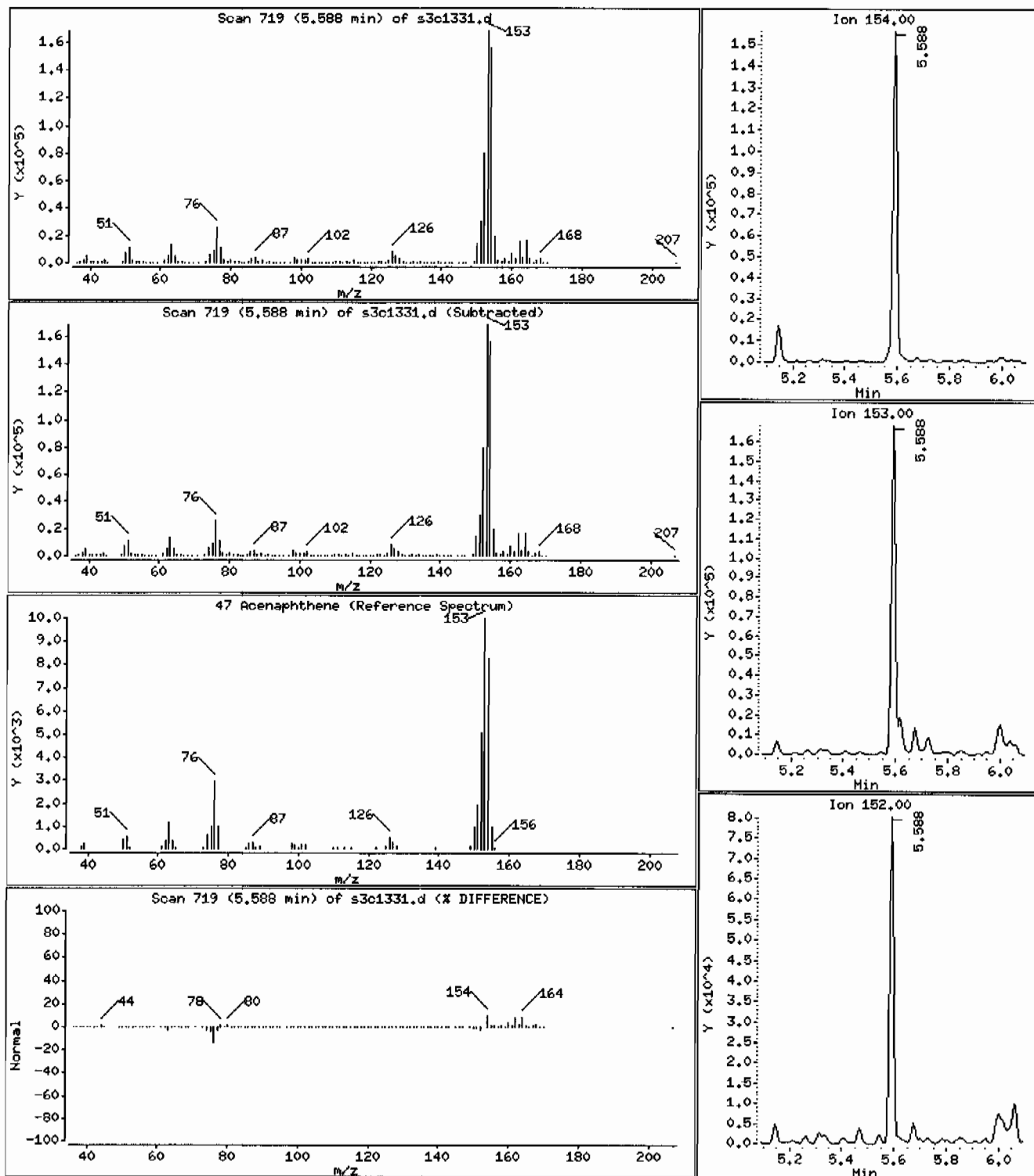
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

47 Acenaphthene

Concentration: 9300 ug/Kg



Data File: /chem/MSD3.i/s031310.b/s3c1331.d

Page 3

Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF121LANL

Volume Injected (uL): 0.5

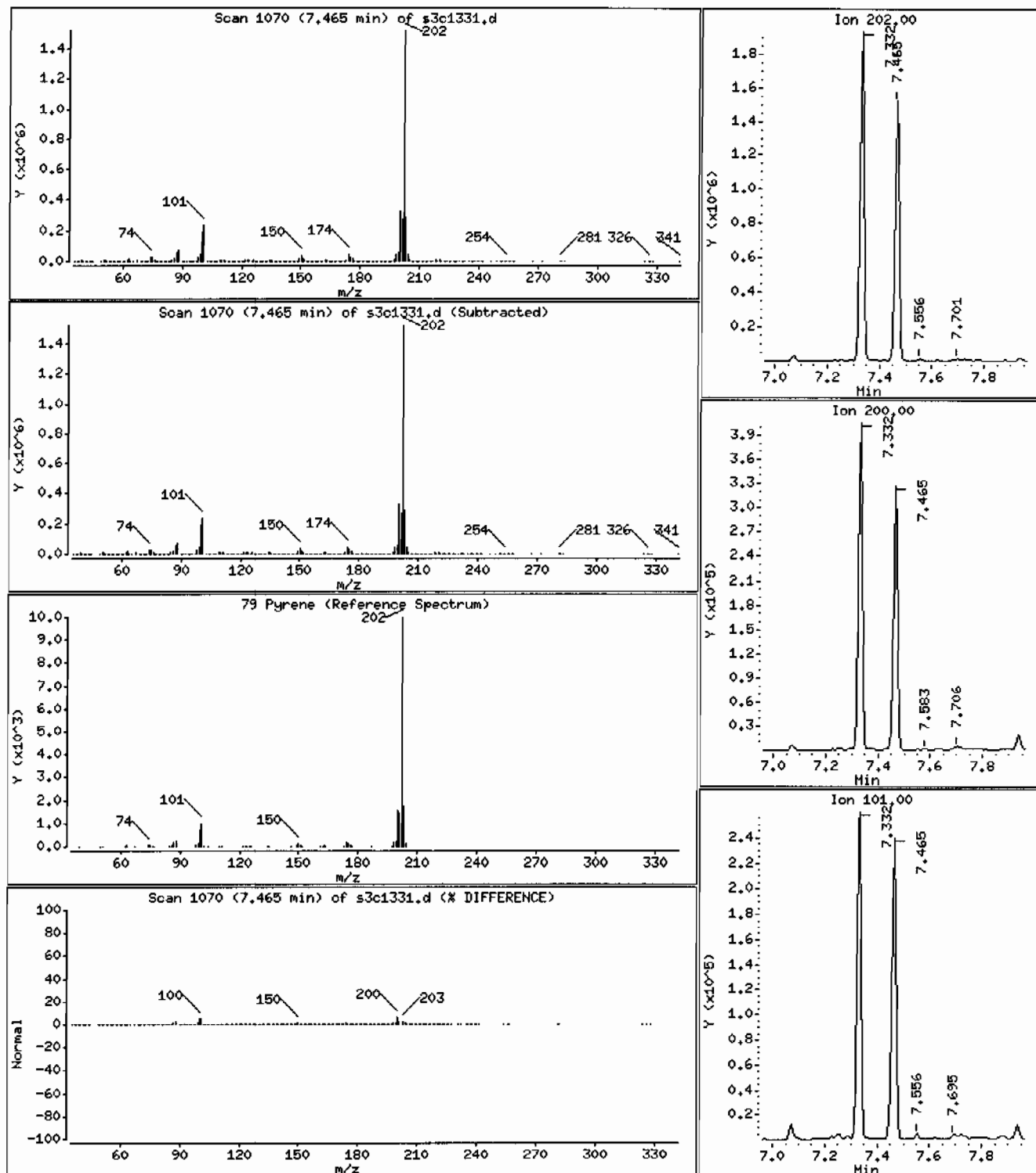
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 75600 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVMF121LANL

Volume Injected (uL): 0.5

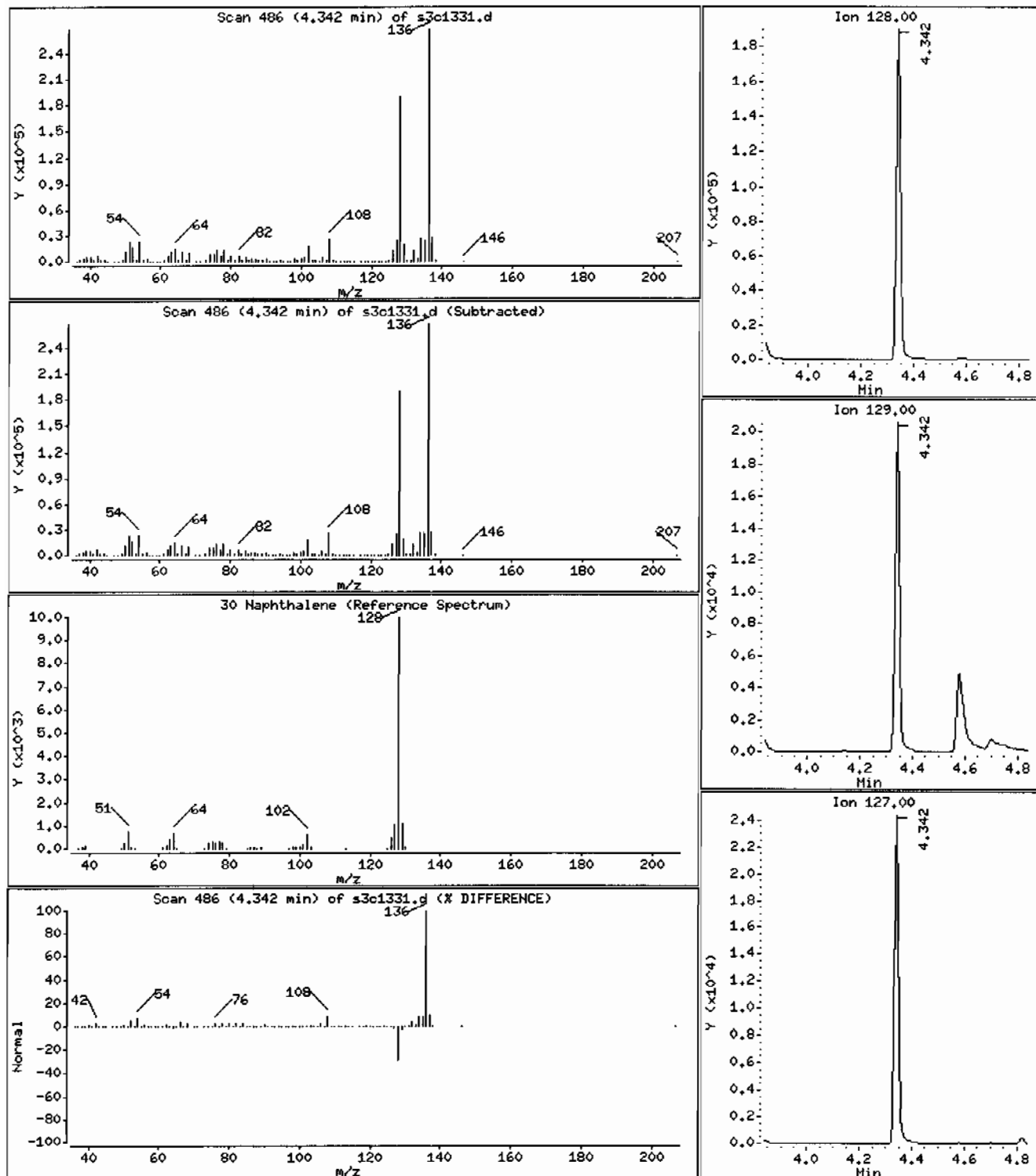
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

30 Naphthalene

Concentration: 7490 ug/Kg



Date: 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF121LANL

Volume Injected (uL): 0.5

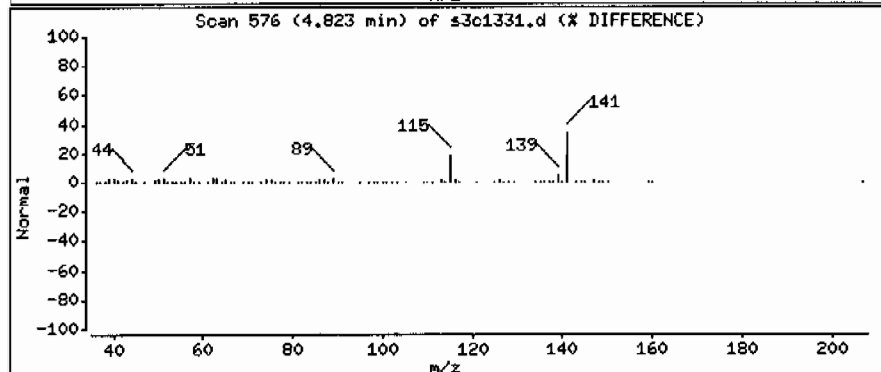
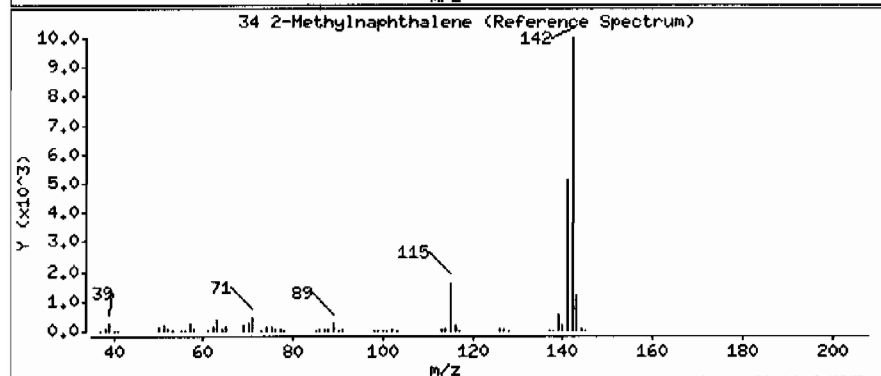
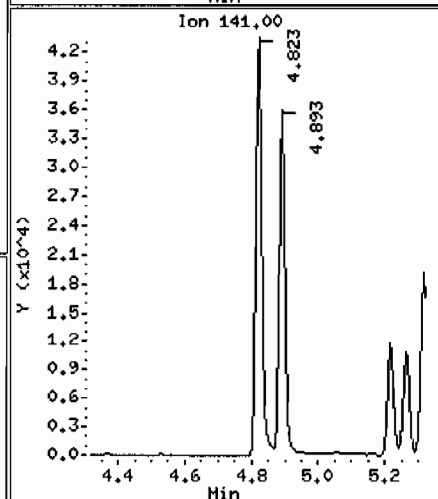
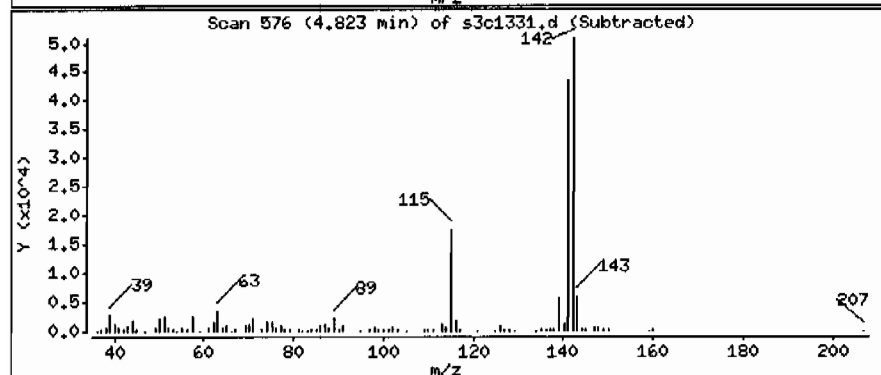
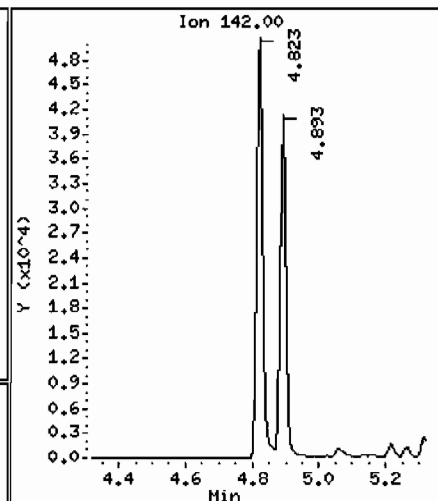
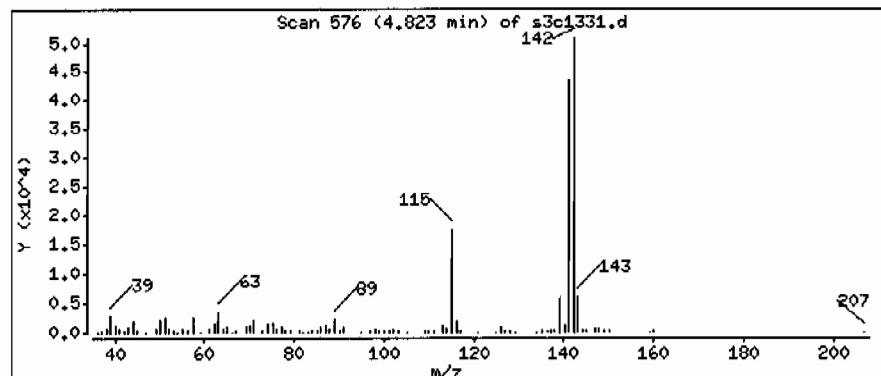
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

34 2-Methylnaphthalene

Concentration: 3440 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 12481970091960459140ISVHF12ILANL

Volume Injected (uL): 0.5

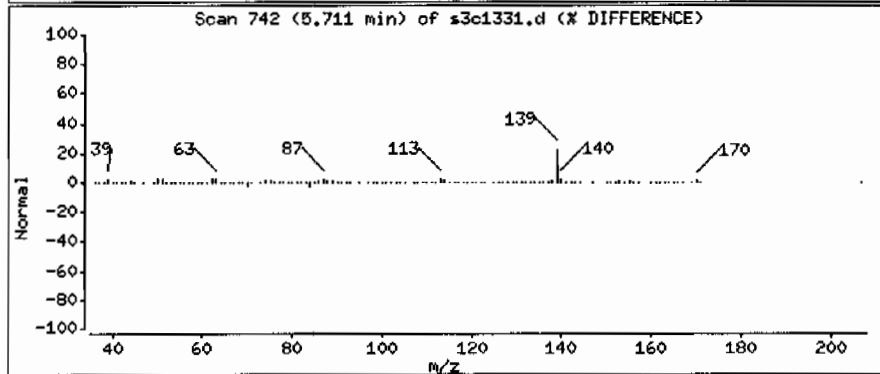
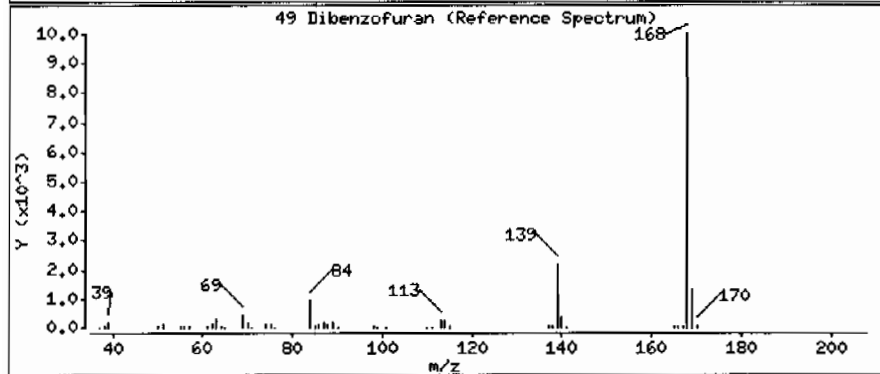
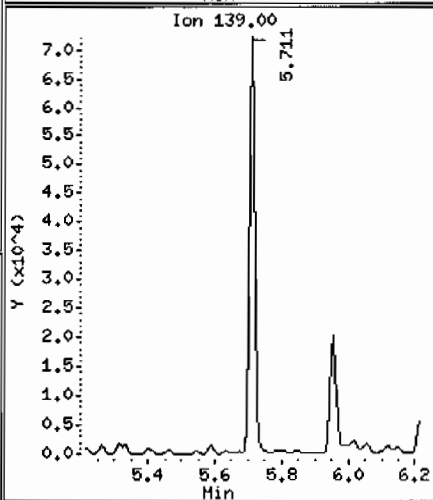
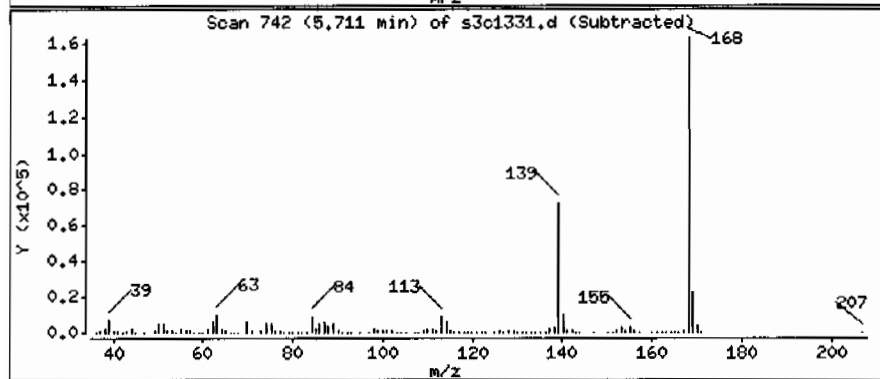
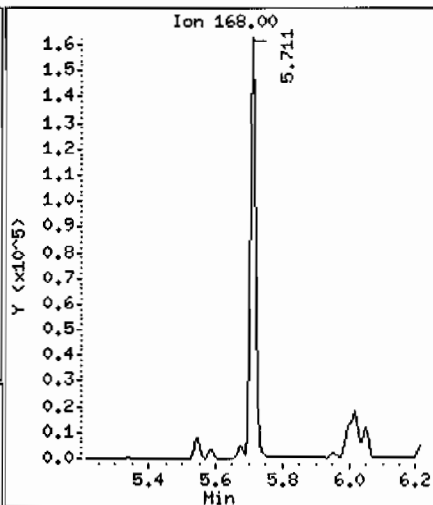
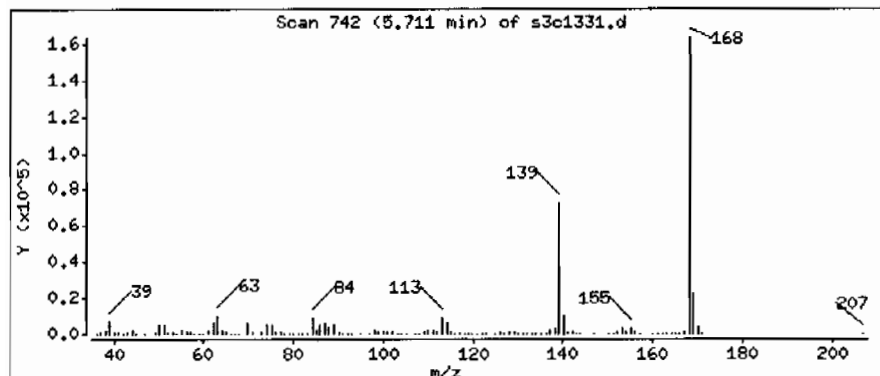
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

49 Dibenzofuran

Concentration: 7690 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 12481970091960459140ISVHF12ILANL

Volume Injected (uL): 0.5

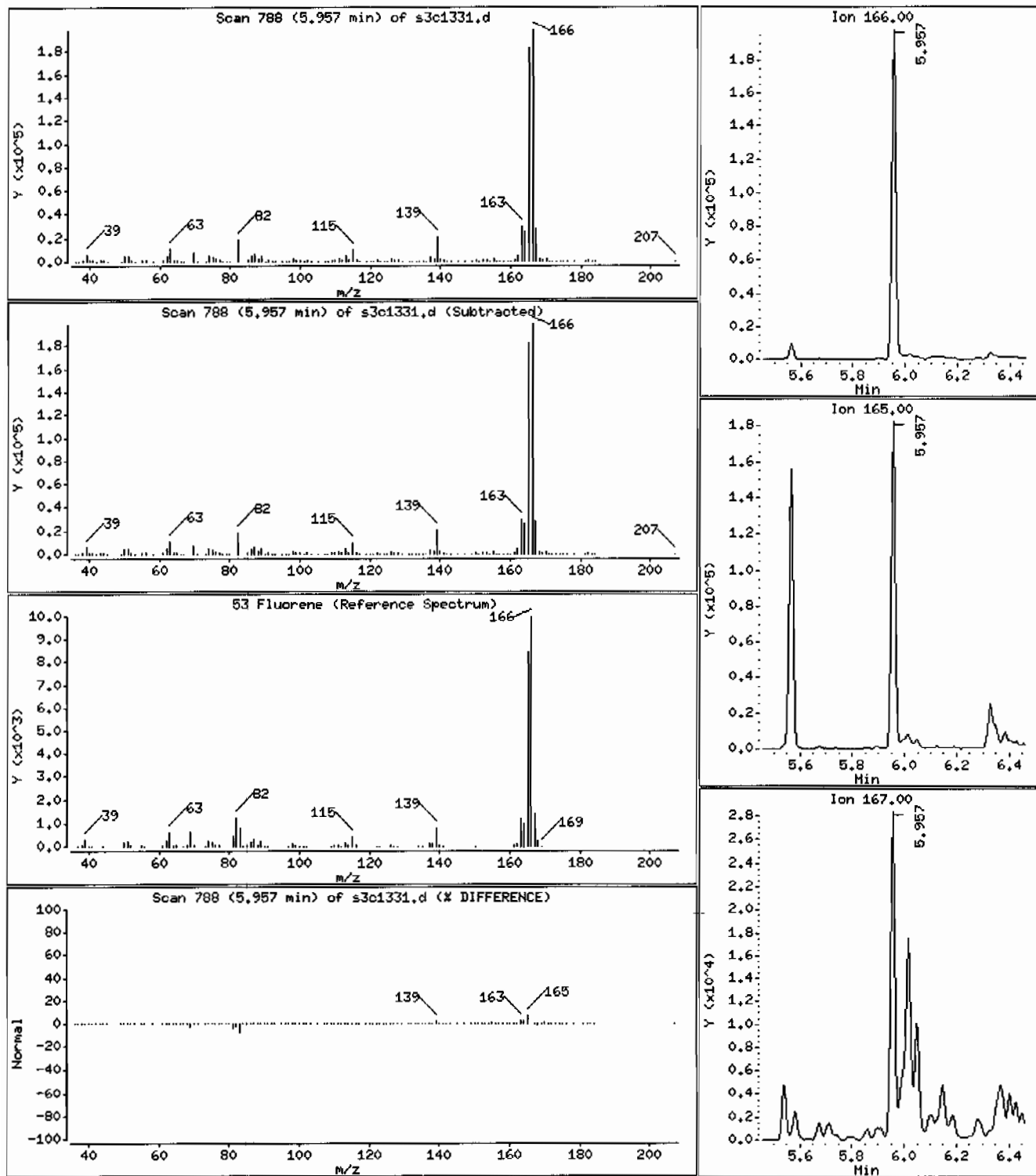
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 10500 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: HSD3.i

Sample Info: 12481970091960459140ISMVF12ILANL

Volume Injected (uL): 0.5

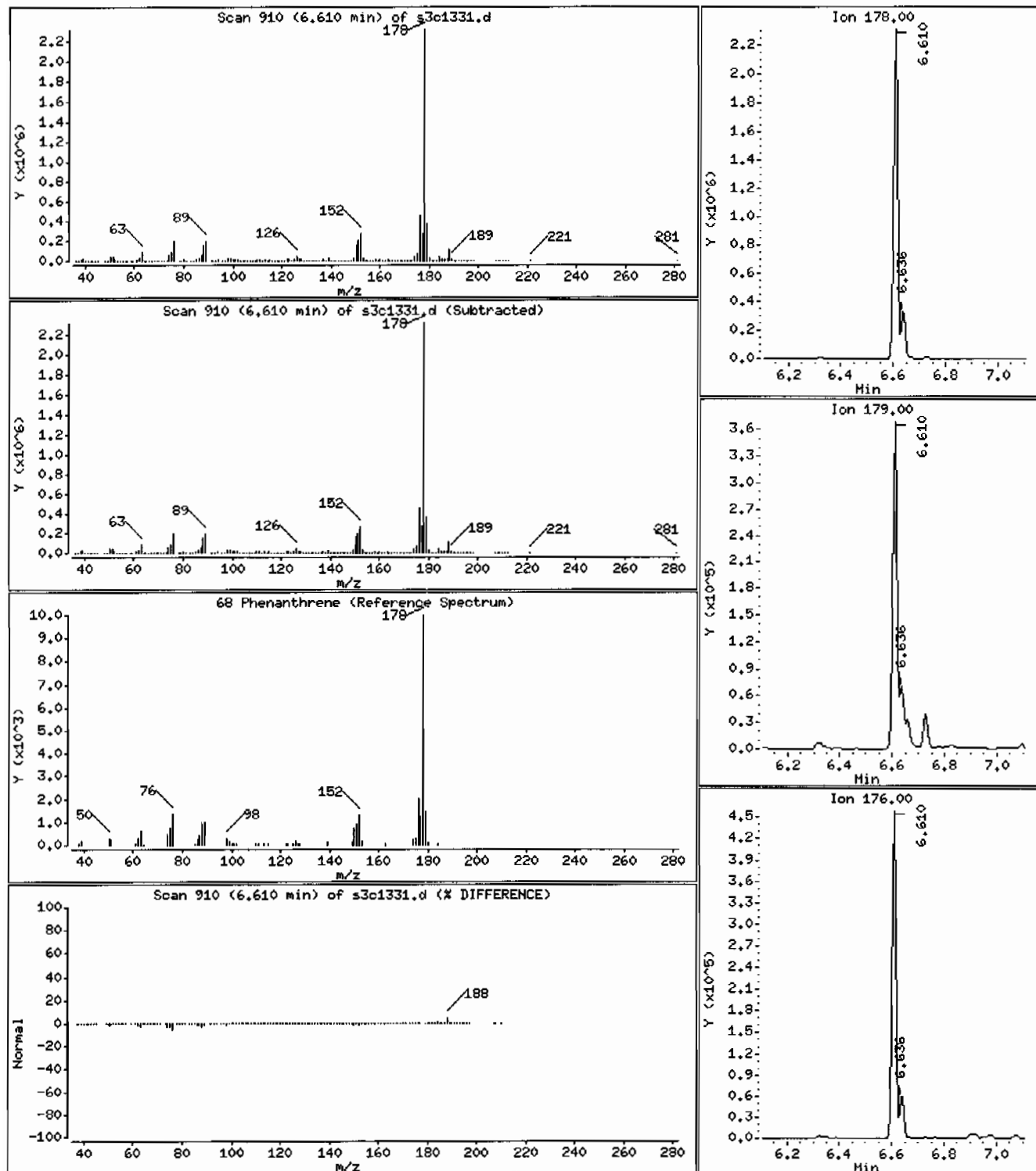
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 85700 ug/Kg



Date: 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3,i

Sample Info: 1248197009|960459|40|SVHF12|LANL

Volume Injected (uL): 0.5

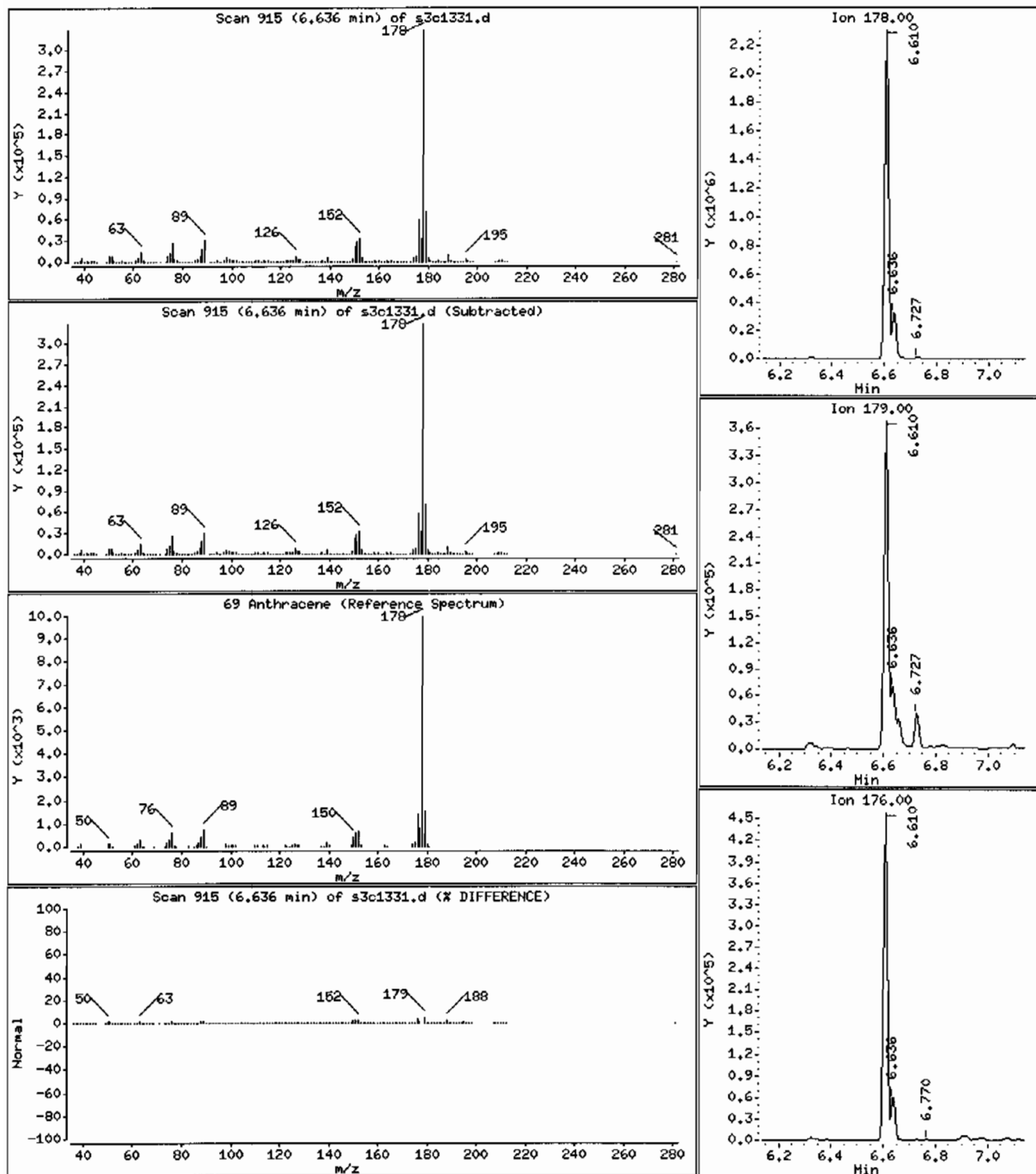
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 15100 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF12ILANL

Volume Injected (uL): 0.5

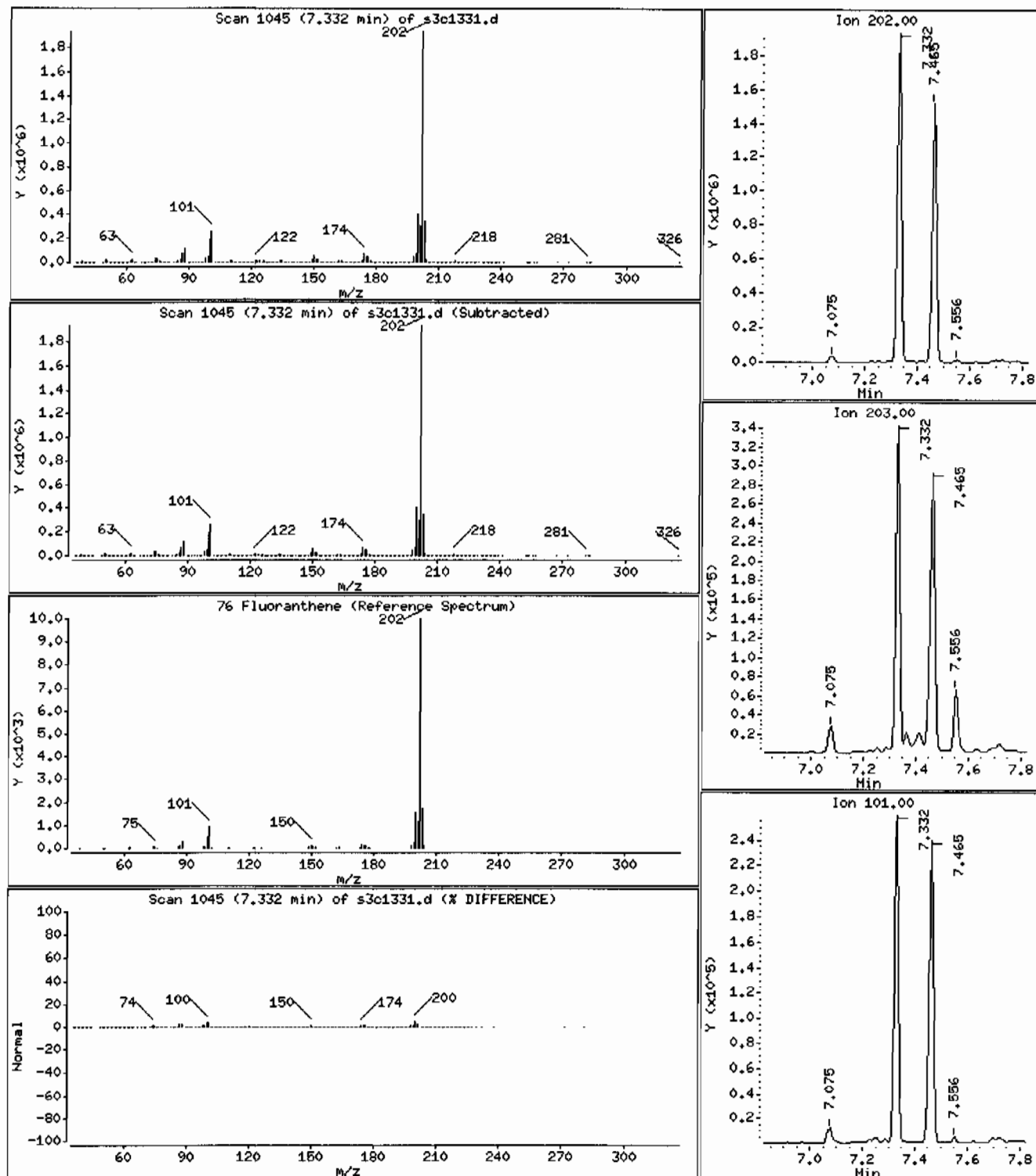
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 79800 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF12ILANL

Volume Injected (uL): 0,5

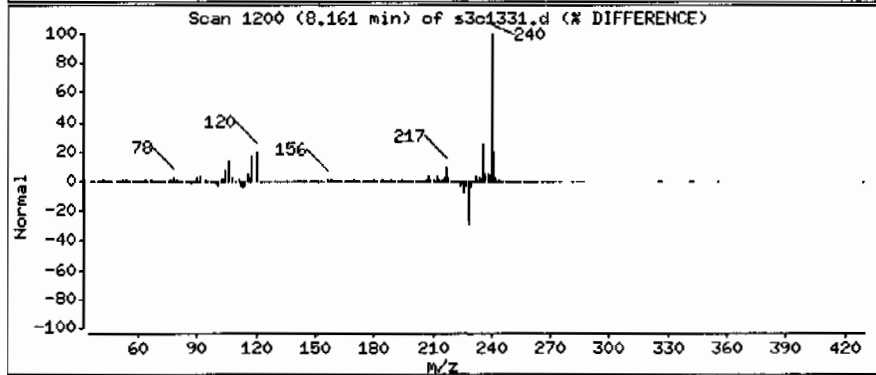
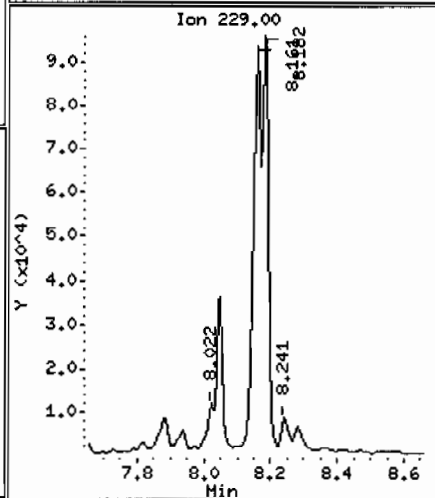
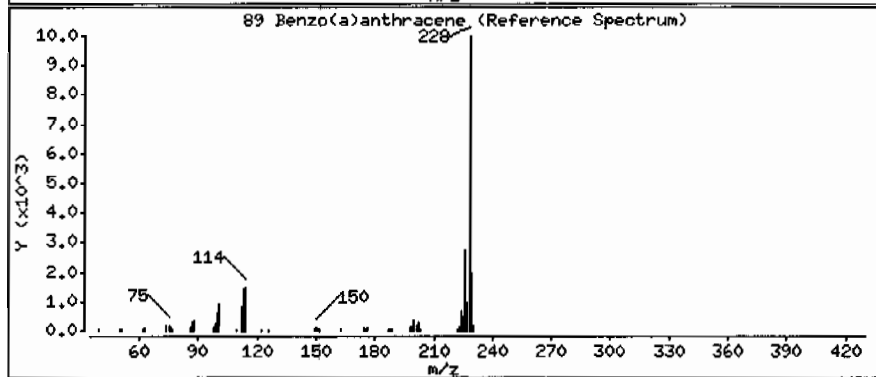
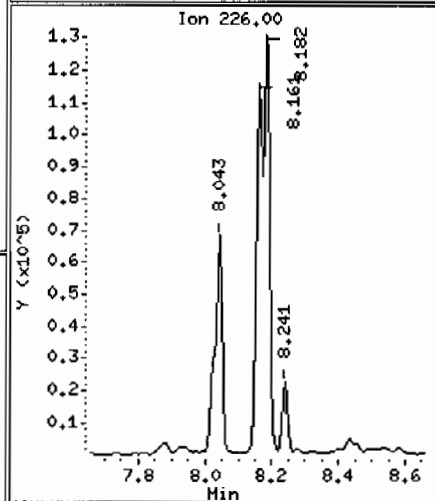
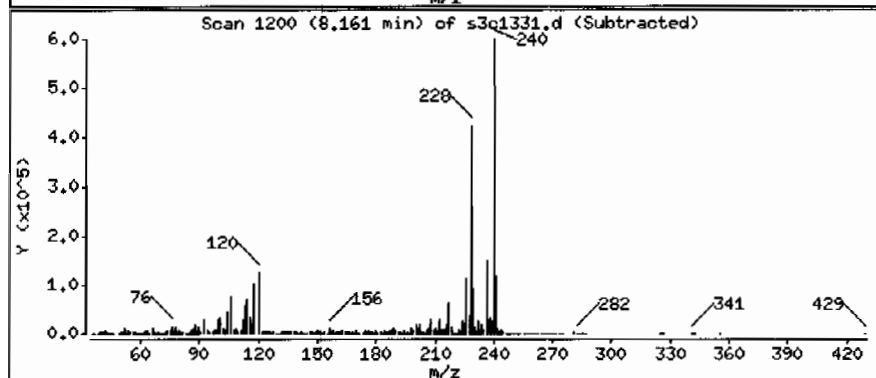
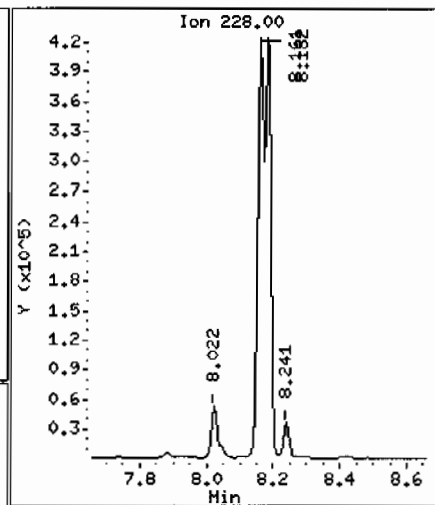
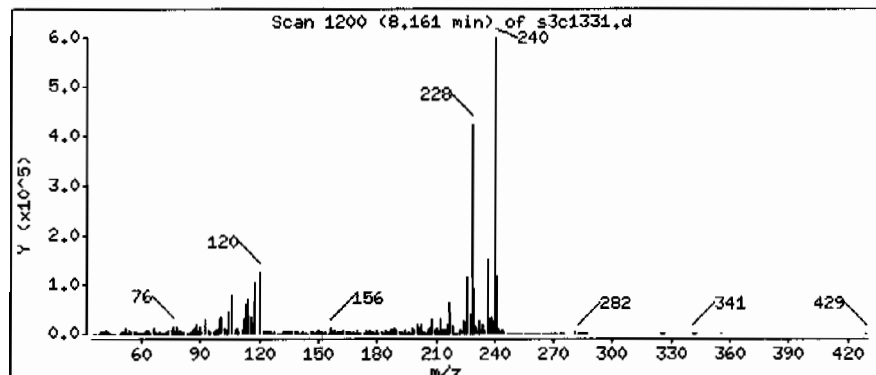
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0,20

89 Benzo(a)anthracene

Concentration: 30400 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVMF12ILANL

Volume Injected (uL): 0.5

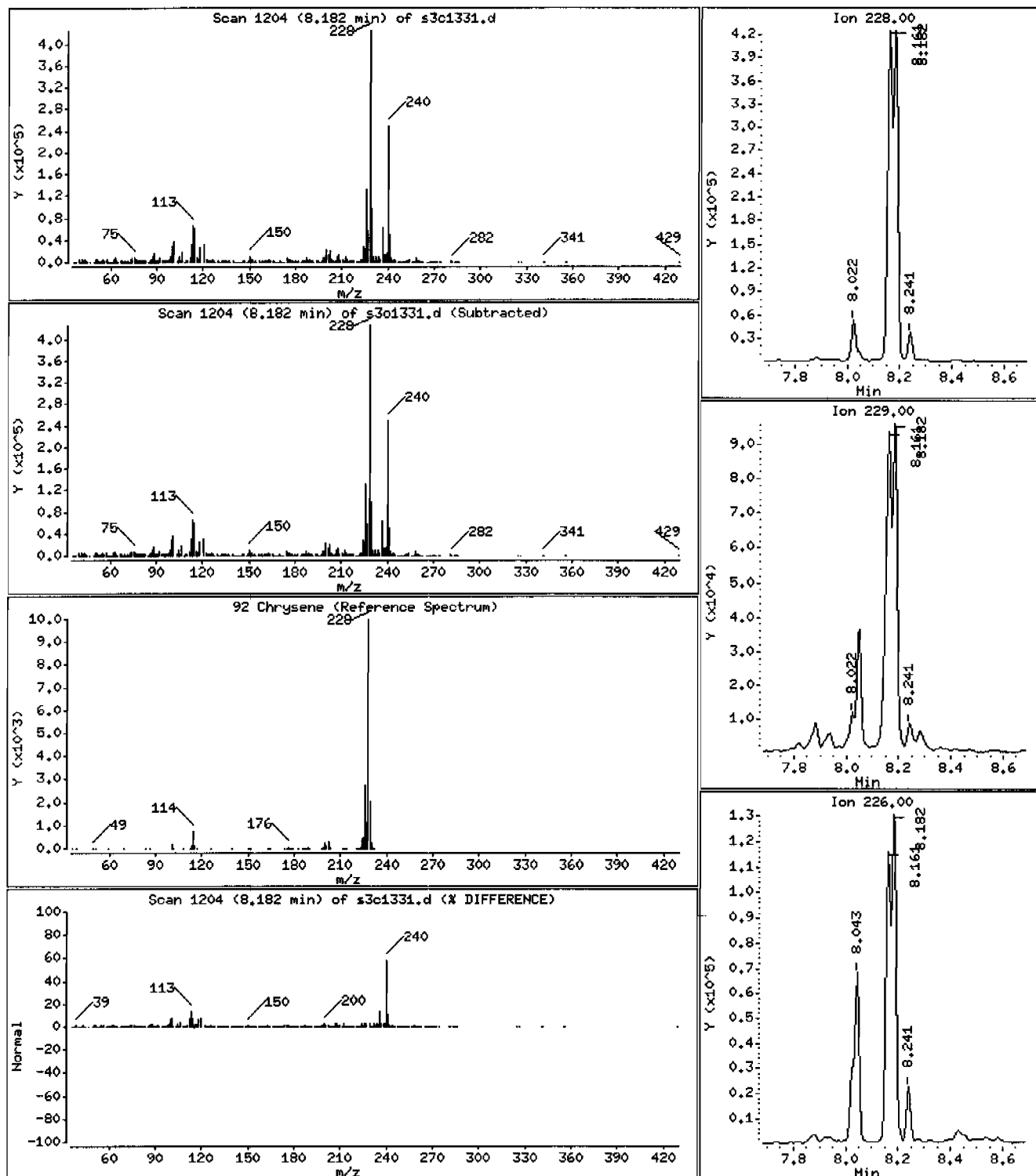
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 32400 ug/Kg



Date: 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: HSD3.i

Sample Info: 12481970091960459140ISVMF12ILANL

Volume Injected (uL): 0.5

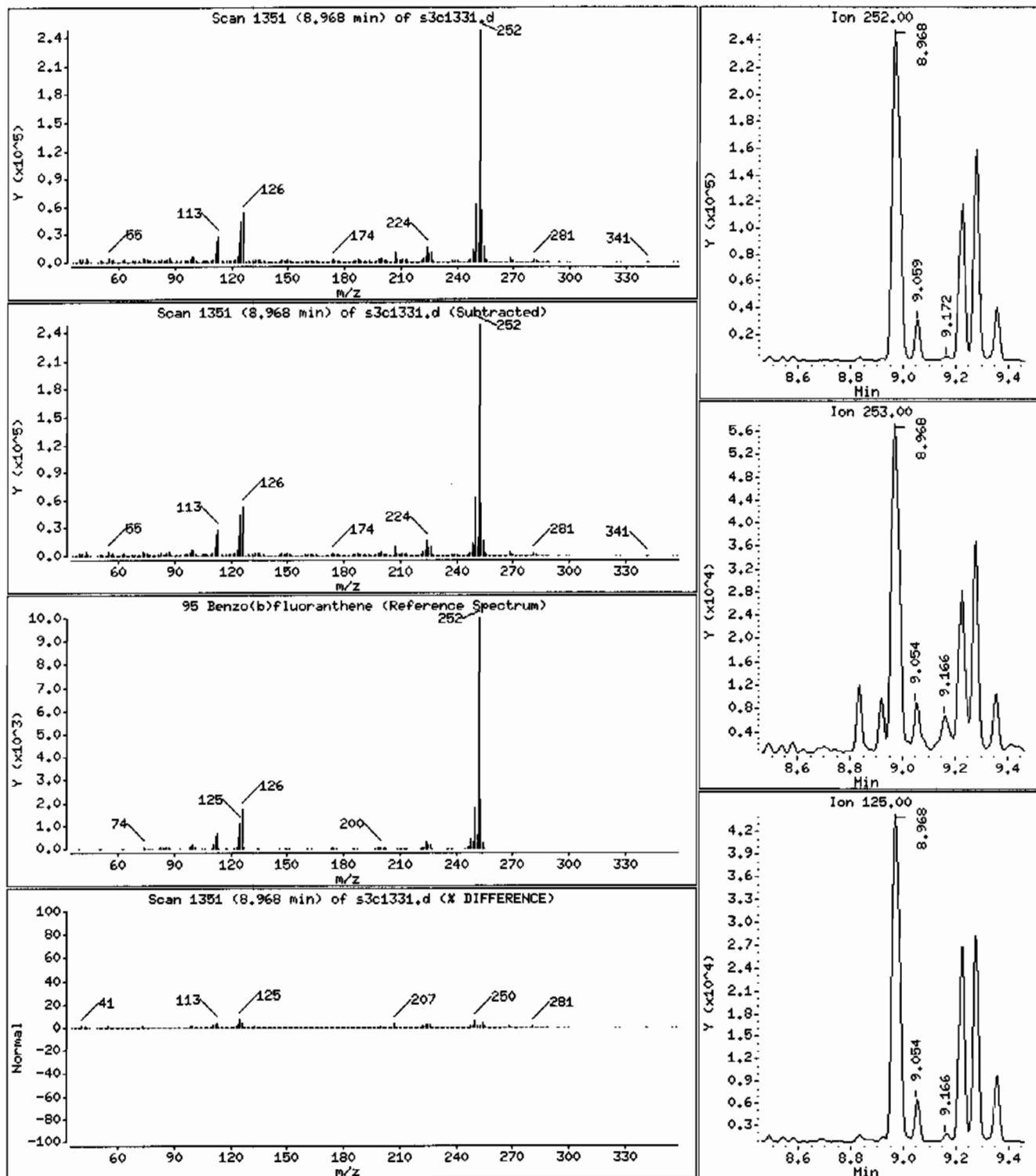
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 50100 ug/Kg



Date: 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF121LANL

Volume Injected (uL): 0.5

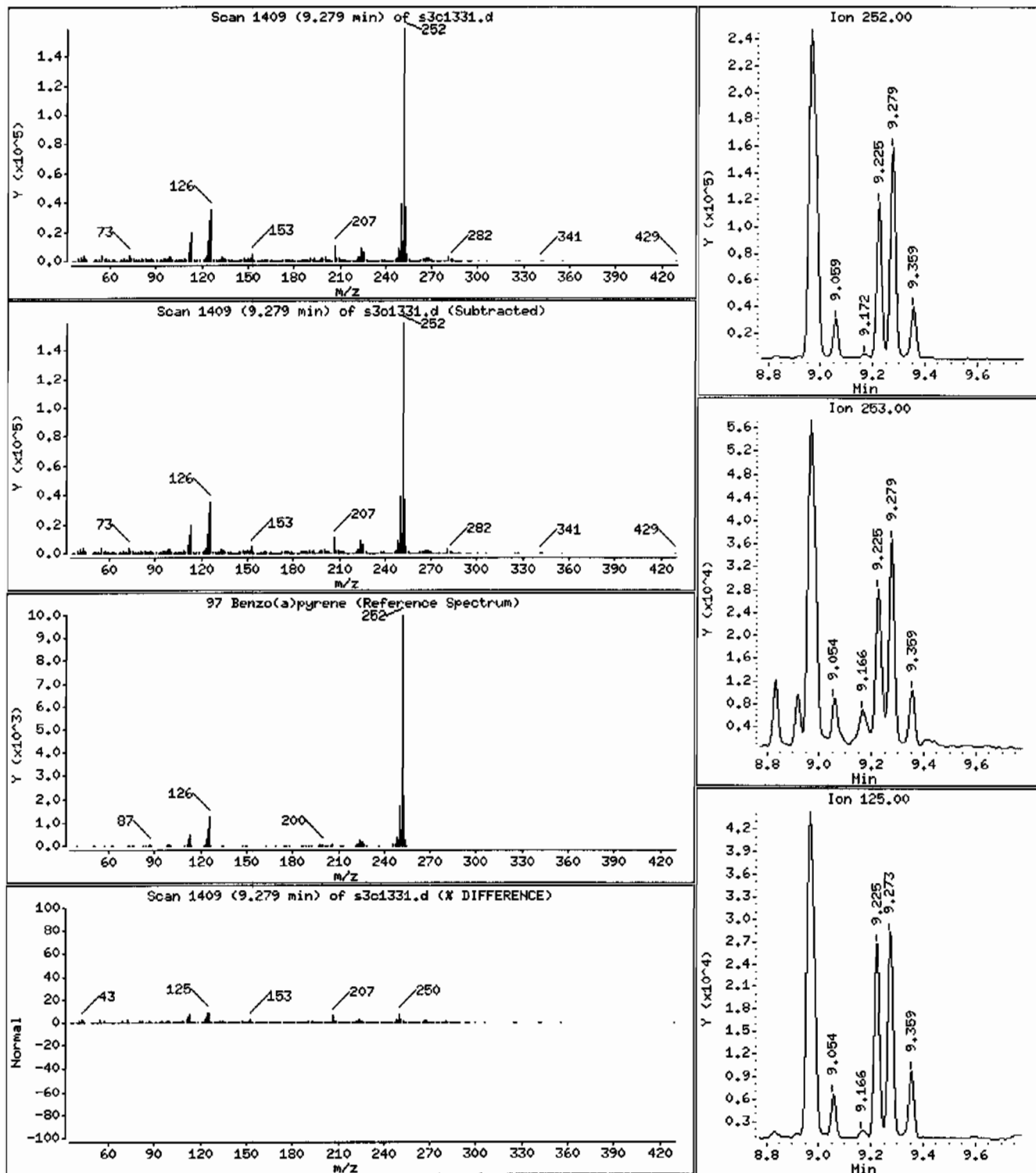
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 26200 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF12ILANL

Volume Injected (uL): 0.5

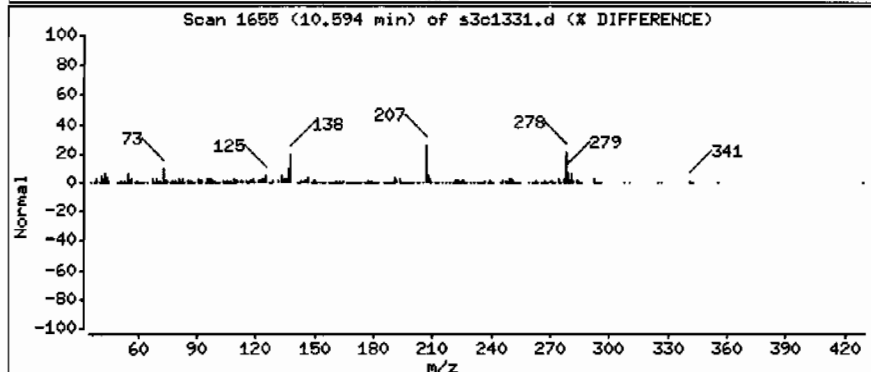
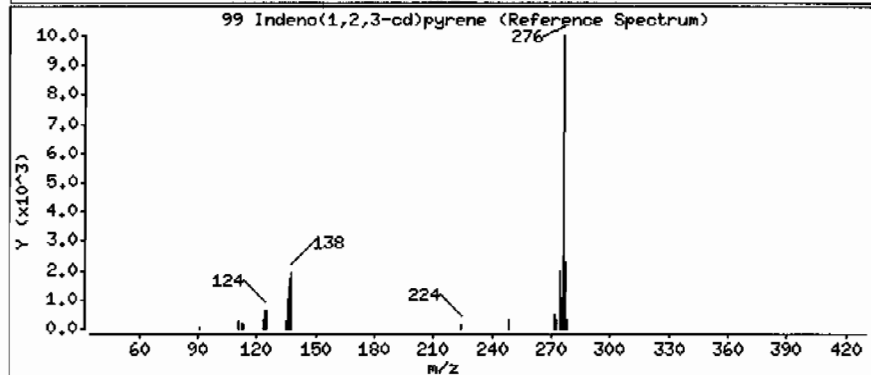
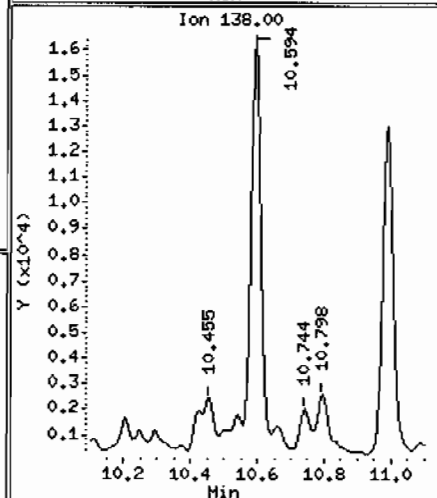
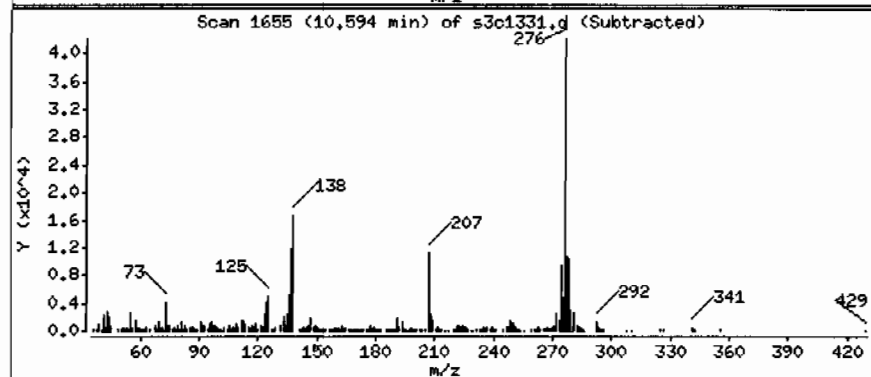
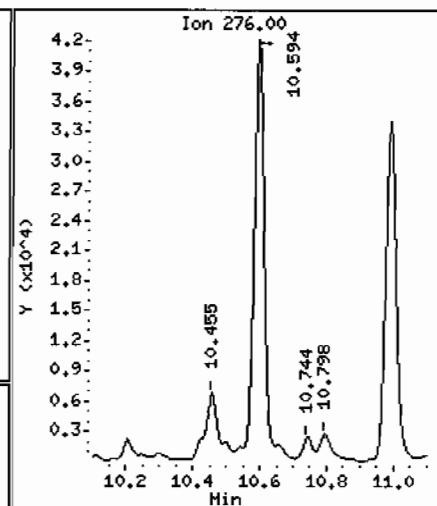
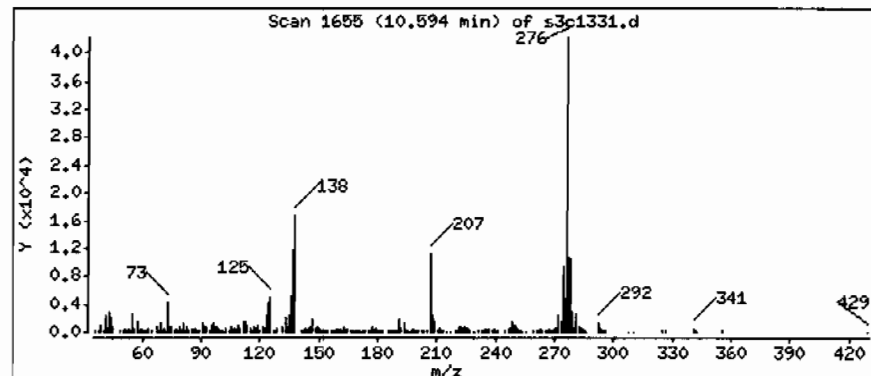
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 11600 ug/Kg



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF12ILANL

Volume Injected (uL): 0.5

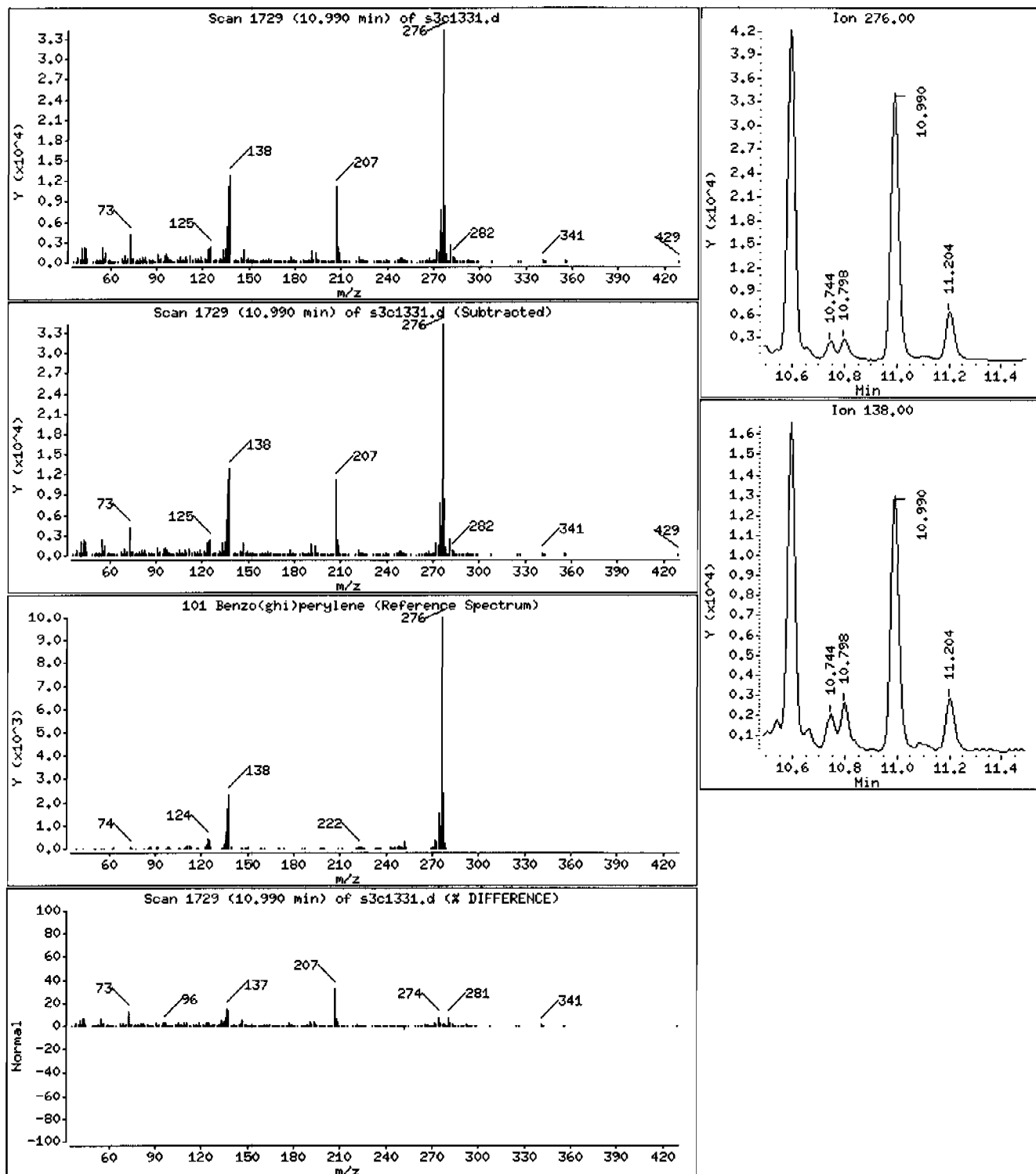
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 12100 ug/Kg



Date: 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVHF12ILANL

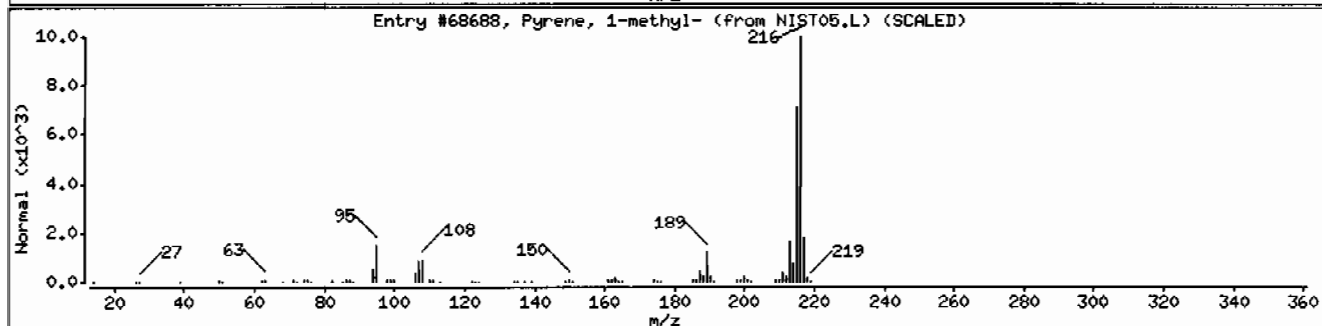
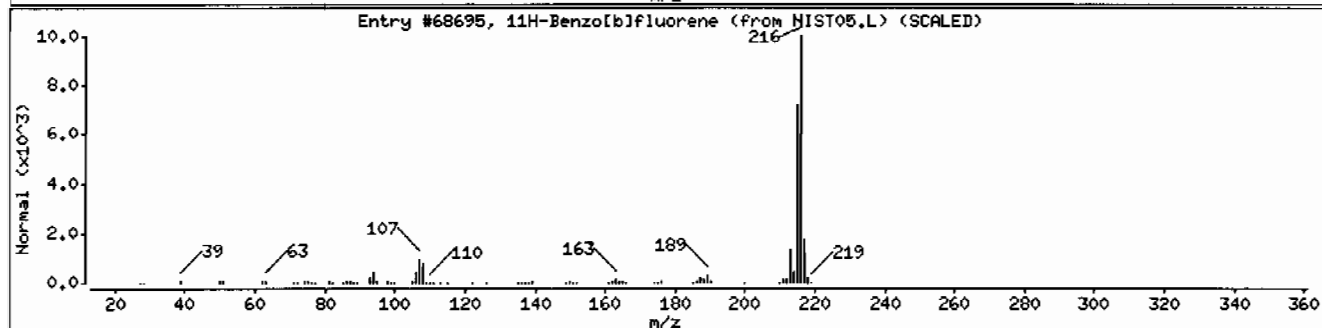
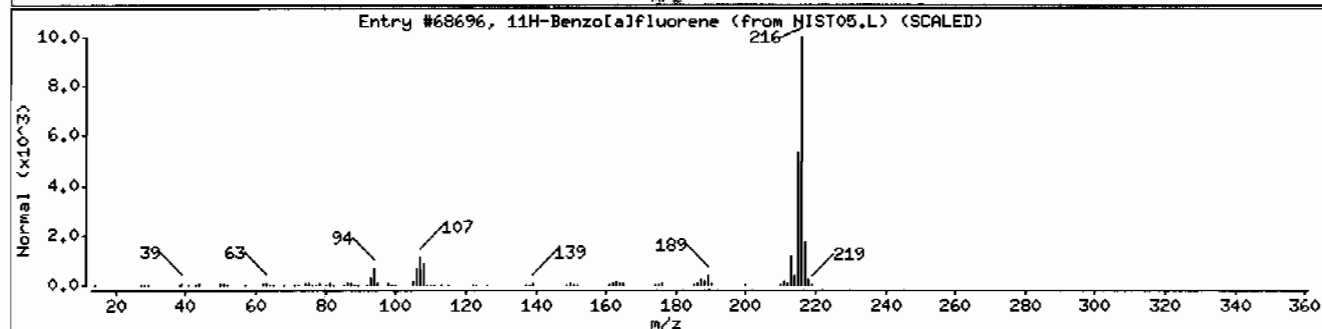
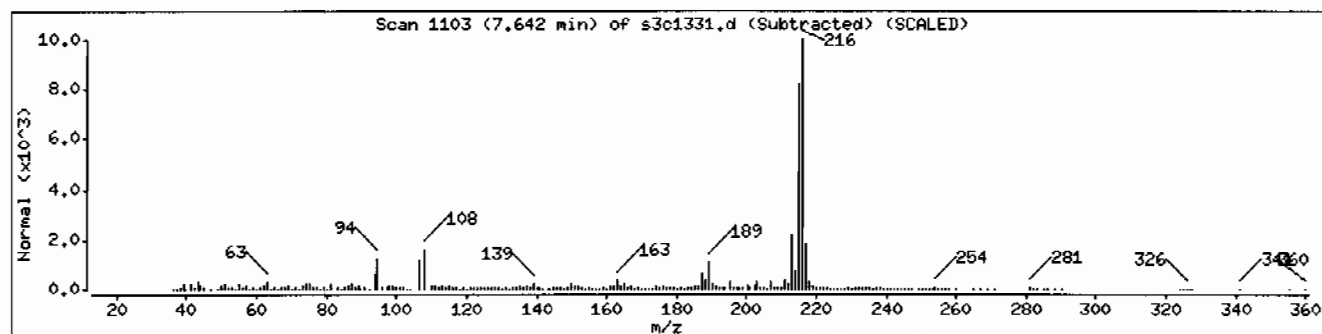
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluorene	238-84-6	NIST05.L	68696	97	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	96	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	96	C17H12	216



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: HSD3.i

Sample Info: 124819700919604591401SVMF12ILANL

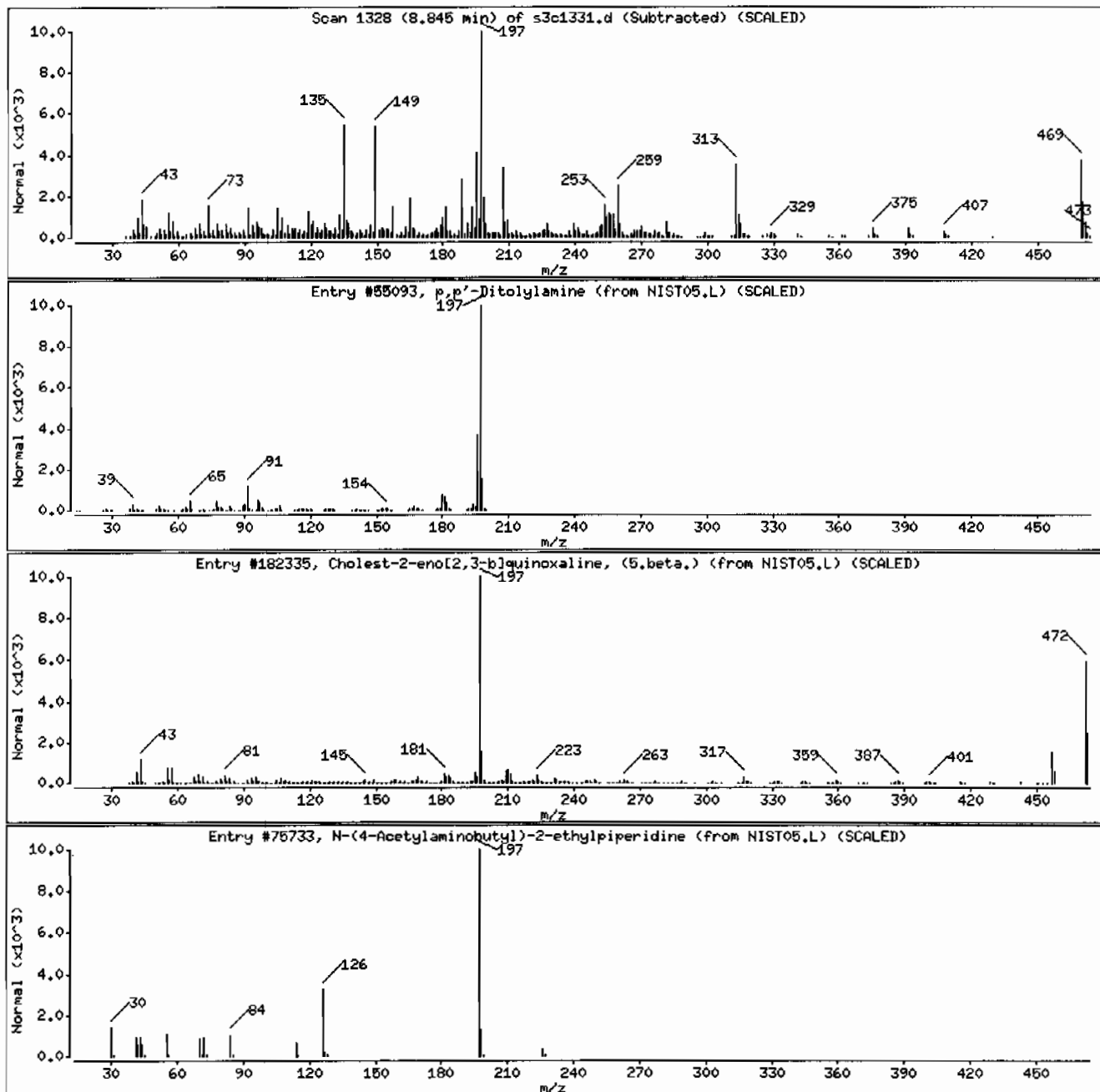
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
p,p'-Ditolyldiamine	620-93-9	NIST05.L	55093	35	C14H15N	197
Cholest-2-eno[2,3-b]quinoxaline, (5.beta	24479-67-2	NIST05.L	182335	20	C33H48N2	472
N-(4-Acetylaminoethyl)-2-ethylpiperidine	1000306-09-6	NIST05.L	75733	18	C13H26N2O	226



Date : 13-MAR-2010 20:47

Client ID: RE36-10-7431DL

Instrument: MSD3.i

Sample Info: 124819700919604591401SVMF12ILANL

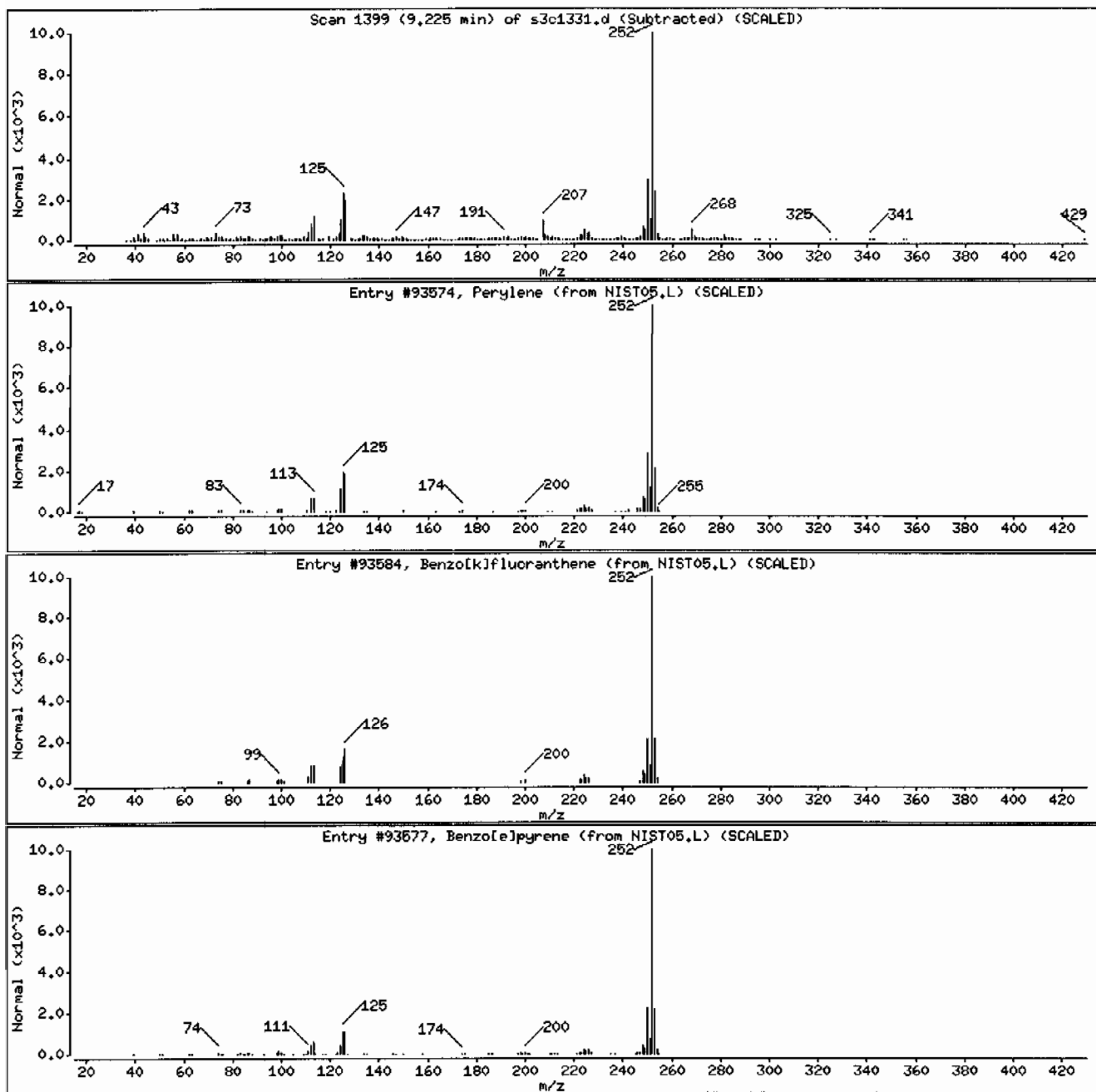
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NIST05.L	93574	99	C ₂₀ H ₁₂	252
Benzo[k]fluoranthene	207-08-9	NIST05.L	93584	98	C ₂₀ H ₁₂	252
Benzo[e]pyrene	192-97-2	NIST05.L	93577	98	C ₂₀ H ₁₂	252



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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	768	ug/kg	154	768
108-95-2	Phenol	U	768	ug/kg	154	768
95-57-8	2-Chlorophenol	U	768	ug/kg	154	768
106-46-7	1,4-Dichlorobenzene	U	768	ug/kg	154	768
621-64-7	N-Nitrosodipropylamine	U	768	ug/kg	154	768
59-50-7	4-Chloro-3-methylphenol	U	768	ug/kg	154	768
83-32-9	Acenaphthene		563	ug/kg	25.3	76.8
121-14-2	2,4-Dinitrotoluene	U	768	ug/kg	76.8	768
100-02-7	4-Nitrophenol	U	768	ug/kg	253	768
87-86-5	Pentachlorophenol	U	768	ug/kg	192	768
129-00-0	Pyrene		5340	ug/kg	23.0	76.8
110-86-1	Pyridine	U	768	ug/kg	154	768
62-53-3	Aniline	U	768	ug/kg	230	768
111-44-4	bis(2-Chloroethyl) ether	U	768	ug/kg	154	768
541-73-1	1,3-Dichlorobenzene	U	768	ug/kg	154	768
100-51-6	Benzyl alcohol	U	768	ug/kg	230	768
95-50-1	1,2-Dichlorobenzene	U	768	ug/kg	154	768
108-60-1	bis(2-Chloroisopropyl)ether	U	768	ug/kg	154	768
95-48-7	o-Cresol	U	768	ug/kg	154	768
65794-96-9	m,p-Cresols	U	768	ug/kg	230	768
67-72-1	Hexachloroethane	U	768	ug/kg	154	768
98-95-3	Nitrobenzene	U	768	ug/kg	154	768
78-59-1	Isophorone	U	768	ug/kg	154	768
88-75-5	2-Nitrophenol	U	768	ug/kg	154	768
105-67-9	2,4-Dimethylphenol	U	768	ug/kg	269	768
111-91-1	bis(2-Chloroethoxy)methane	U	768	ug/kg	154	768
120-83-2	2,4-Dichlorophenol	U	768	ug/kg	154	768
65-85-0	Benzoic acid	U	1540	ug/kg	384	1540
91-20-3	Naphthalene		277	ug/kg	23.0	76.8
106-47-8	4-Chloroaniline	U	768	ug/kg	154	768
87-68-3	Hexachlorobutadiene	U	768	ug/kg	154	768
91-57-6	2-Methylnaphthalene		153	ug/kg	15.4	76.8
77-47-4	Hexachlorocyclopentadiene	U	768	ug/kg	154	768
88-06-2	2,4,6-Trichlorophenol	U	768	ug/kg	154	768
95-95-4	2,4,5-Trichlorophenol	U	768	ug/kg	154	768
91-58-7	2-Chloronaphthalene	U	76.8	ug/kg	25.3	76.8
88-74-4	2-Nitroaniline	U	768	ug/kg	154	768
99-09-2	3-Nitroaniline	U	768	ug/kg	154	768

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.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	768	ug/kg	154	768
606-20-2	2,6-Dinitrotoluene	U	768	ug/kg	76.8	768
208-96-8	Acenaphthylene	U	76.8	ug/kg	23.0	76.8
51-28-5	2,4-Dinitrophenol	U	1540	ug/kg	292	1540
132-64-9	Dibenzofuran	J	404	ug/kg	154	768
84-66-2	Diethylphthalate	U	768	ug/kg	154	768
86-73-7	Fluorene		627	ug/kg	23.0	76.8
7005-72-3	4-Chlorophenylphenylether	U	768	ug/kg	154	768
534-52-1	2-Methyl-4,6-dinitrophenol	U	768	ug/kg	154	768
100-01-6	4-Nitroaniline	U	768	ug/kg	230	768
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	768	ug/kg	154	768
122-66-7	Azobenzene	U	768	ug/kg	154	768
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	768	ug/kg	154	768
118-74-1	Hexachlorobenzene	U	768	ug/kg	154	768
85-01-8	Phenanthrene		5580	ug/kg	23.0	76.8
120-12-7	Anthracene		958	ug/kg	15.4	76.8
84-74-2	Di-n-butylphthalate	J	193	ug/kg	154	768
206-44-0	Fluoranthene		5880	ug/kg	23.0	76.8
85-68-7	Butylbenzylphthalate	U	768	ug/kg	154	768
56-55-3	Benzo(a)anthracene		2550	ug/kg	23.0	76.8
91-94-1	3,3'-Dichlorobenzidine	U	768	ug/kg	230	768
218-01-9	Chrysene		2350	ug/kg	23.0	76.8
117-81-7	bis(2-Ethylhexyl)phthalate	J	178	ug/kg	154	768
117-84-0	Di-n-octylphthalate	U	768	ug/kg	154	768
205-99-2	Benzo(b)fluoranthene		4120	ug/kg	23.0	76.8
207-08-9	Benzo(k)fluoranthene	U	76.8	ug/kg	23.0	76.8
50-32-8	Benzo(a)pyrene		2080	ug/kg	23.0	76.8
193-39-5	Indeno(1,2,3-cd)pyrene		810	ug/kg	23.0	76.8
53-70-3	Dibenzo(a,h)anthracene	U	76.8	ug/kg	23.0	76.8
191-24-2	Benzo(ghi)perylene		802	ug/kg	23.0	76.8
120-82-1	1,2,4-Trichlorobenzene	U	768	ug/kg	154	768

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	6.97	443	ug/kg		J
238-84-6	11H-Benzo[a]fluorene	7.65	508	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197008	Date Received: 02/26/2010 08:45	%Moisture: 13.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7432	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 17:34	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.16 g	Final Volume: 1 mL
Data File: s3c1321.d	Column: J&W DB-SMS	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
3442-78-2	Pyrene, 2-methyl-	7.71	361	ug/kg	95	NJ
2381-21-7	Pyrene, 1-methyl-	7.78	316	ug/kg	93	NJ
243-46-9	Benzo[b]naphtho[2,3-d]thiophene	8.01	439	ug/kg	93	NJ
3351-32-4	Chrysene, 2-methyl-	8.43	496	ug/kg	97	NJ
	Unknown	8.85	3330	ug/kg		J
198-55-0	Perylene	9.23	1720	ug/kg	99	NJ
38651-65-9	Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl	9.67	1080	ug/kg	89	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1321.d
Report Date: 14-Mar-2010 16:28

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1321.d
Lab Smp Id: 248197008 Client Smp ID: RE36-10-7432
Inj Date : 13-MAR-2010 17:34
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197008|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 21
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.16000	weight of sample
M	13.64830	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473	(1.000)	649298	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2495900	40.0000	
* 46 Acenaphthene-d10	164	5.566	5.570	(1.000)	1325708	40.0000	
* 67 Phenanthrene-d10	188	6.593	6.592	(1.000)	2144197	40.0000	
* 91 Chrysene-d12	240	8.171	8.169	(1.000)	1327933	40.0000	
* 98 Perylene-d12	264	9.337	9.330	(1.000)	717641	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	510460	34.9829	2690
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	588231	34.3134	2640
\$ 20 Nitrobenzene-d5	82	3.833	3.837	(0.886)	255664	17.9935	1380
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	583272	17.2929	1330
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126	(1.101)	101581	33.4186	2570
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	433315	21.0515	1620

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
47 Acenaphthene	154	5.588	5.591	(1.004)	239415	7.33478	563
79 Pyrene	202	7.471	7.463	(0.914)	2673623	69.5324	5340
30 Naphthalene	128	4.342	4.340	(1.004)	178634	3.60724	277
34 2-Methylnaphthalene	142	4.818	4.821	(1.114)	64073	1.99224	153
49 Dibenzofuran	168	5.711	5.714	(1.026)	217196	5.25687	404(a)
53 Fluorene	166	5.957	5.960	(1.070)	292338	8.15988	627
68 Phenanthrene	178	6.609	6.608	(1.002)	3530444	72.6863	5580
69 Anthracene	178	6.641	6.640	(1.007)	593419	12.4785	958
72 Di-n-butylphthalate	149	6.909	6.912	(1.048)	138373	2.51858	193(a)
76 Fluoranthene	202	7.331	7.324	(1.112)	3367174	76.5351	5880
89 Benzo(a)anthracene	228	8.166	8.159	(0.999)	1025914	33.2663	2550
92 Chrysene	228	8.187	8.185	(1.002)	965846	30.6302	2350
93 bis(2-Ethylhexyl)phthalate	149	8.091	8.089	(0.990)	60610	2.32369	178(a)
95 Benzo(b)fluoranthene	252	8.973	8.966	(0.961)	978178	53.7003	4120
97 Benzo(a)pyrene	252	9.284	9.277	(0.994)	422906	27.0260	2080
99 Indeno(1,2,3-cd)pyrene	276	10.605	10.603	(1.136)	142335	10.5492	810
101 Benzo(ghi)perylene	276	10.995	10.993	(1.178)	115817	10.4488	802

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1321.d

Report Date: 03/14/2010 14:33

Lab. ID: 248197008

SampleType: SAMPLE

Injection Date: 13-MAR-2010 17:34

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197008|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	32422	3.21	3.26	80-120	100	()
93	222	3.21	3.26	200-260	1	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	37110	3.83	3.72	80-120	100	(T)
42	30407	3.83	3.72	76-136	82	(T)

22 Isophorone		CAS#: 78-59-1				
82	265349	3.83	4.00	80-120	100	(T)
138	230	3.76	4.00	0- 55	0	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	202	4.06	4.12	80-120	100	()
122	1399	4.07	4.12	55-115	690	(Q)
77	683	4.06	4.12	29- 89	337	(Q)

30 Naphthalene		CAS#: 91-20-3				
128	178634	4.34	4.34	80-120	100	()
129	19743	4.34	4.34	0- 42	11	()
127	23616	4.34	4.34	0- 42	13	()

34 2-Methylnaphthalene		CAS#: 91-57-6				
142	64073	4.82	4.82	80-120	100	()
141	54687	4.82	4.82	55-115	85	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
43 Dimethylphthalate			CAS#: 131-11-3			
163	240538	5.57	5.35	80-120	100	(T)
164	1334644	5.57	5.35	0- 40	555	(QT)

44 2,6-Dinitrotoluene			CAS#: 606-20-2			
165	179420	5.57	5.40	80-120	100	(T)
63	22317	5.59	5.40	49-109	12	(QT)

45 Acenaphthylene			CAS#: 208-96-8			
152	119424	5.59	5.47	80-120	100	(T)
151	45120	5.59	5.47	0- 50	38	(T)
153	256606	5.59	5.47	0- 43	215	(QT)

47 Acenaphthene			CAS#: 83-32-9			
154	239415	5.59	5.59	80-120	100	()
153	256589	5.59	5.59	71-131	107	()
152	119424	5.59	5.59	18- 78	50	()

49 Dibenzofuran			CAS#: 132-64-9			
168	217196	5.71	5.71	80-120	100	()
139	95244	5.71	5.71	13- 73	44	()

50 2,4-Dinitrotoluene			CAS#: 121-14-2			
165	179420	5.57	5.69	80-120	100	(T)
89	2534	5.57	5.69	48-108	1	(QT)
63	20484	5.59	5.69	21- 81	11	(QT)

52 4-Nitrophenol			CAS#: 100-02-7			
139	2151	5.59	5.63	80-120	100	()
109	3912	5.57	5.63	39- 99	182	(QT)
65	6465	5.57	5.63	60-120	301	(QT)

53 Fluorene			CAS#: 86-73-7			
166	292338	5.96	5.96	80-120	100	()
165	267366	5.96	5.96	62-122	91	()
167	43192	5.96	5.96	0- 44	15	()

55 2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1			
198	556	6.12	5.98	80-120	100	(T)
105	1605	6.12	5.98	14- 74	288	(QT)
51	5914	6.12	5.98	40-100	1062	(QT)

56 p-Nitroaniline			CAS#: 100-01-6			
138	3919	5.96	5.97	80-120	100	()
108	116	5.96	5.97	35- 95	3	(Q)
92	246	5.85	5.97	5- 65	6	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
68 Phenanthrene			CAS#: 85-01-8			
178	3530444	6.61	6.61	80-120	100	()
179	602183	6.61	6.61	0- 46	17	()
176	699757	6.61	6.61	0- 49	20	()

69 Anthracene			CAS#: 120-12-7			
178	593419	6.64	6.64	80-120	100	()
179	128216	6.64	6.64	0- 46	22	()
176	105724	6.64	6.64	0- 49	18	()

72 Di-n-butylphthalate			CAS#: 84-74-2			
149	138373	6.91	6.91	80-120	100	()
150	26065	6.91	6.91	0- 39	19	()
104	7020	6.91	6.91	0- 35	5	()

76 Fluoranthene			CAS#: 206-44-0			
202	3367174	7.33	7.32	80-120	100	()
203	610722	7.33	7.32	0- 47	18	()
101	456540	7.33	7.32	0- 43	14	()

79 Pyrene			CAS#: 129-00-0			
202	2673623	7.47	7.46	80-120	100	()
200	580522	7.47	7.46	0- 51	22	()
101	462248	7.47	7.46	0- 46	17	()

89 Benzo(a)anthracene			CAS#: 56-55-3			
228	1025914	8.17	8.16	80-120	100	()
226	282374	8.17	8.16	0- 57	28	()
229	278711	8.17	8.16	0- 50	27	()

92 Chrysene			CAS#: 218-01-9			
228	965846	8.19	8.19	80-120	100	()
229	228777	8.19	8.19	0- 50	24	()
226	290379	8.19	8.19	0- 59	30	()

93 bis(2-Ethylhexyl)phthalate			CAS#: 117-81-7			
149	60610	8.09	8.09	80-120	100	()
167	19019	8.09	8.09	1- 61	31	()

95 Benzo(b)fluoranthene			CAS#: 205-99-2			
252	978178	8.97	8.97	80-120	100	()
253	221363	8.97	8.97	0- 52	23	()
125	163968	8.97	8.96	0- 44	17	()

96 Benzo(k)fluoranthene			CAS#: 207-08-9			
252	978178	8.97	8.99	80-120	100	()
253	226634	8.97	8.99	0- 52	23	()
125	163977	8.97	8.99	0- 48	17	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
97 Benzo(a)pyrene				CAS#: 50-32-8		
252	422906	9.28	9.28	80-120	100	()
253	101103	9.28	9.28	0- 52	24	()
125	70945	9.28	9.28	0- 48	17	()

99 Indeno(1,2,3-cd)pyrene				CAS#: 193-39-5		
276	142335	10.60	10.60	80-120	100	()
138	53989	10.60	10.60	14- 74	38	()

100 Dibenzo(a,h)anthracene				CAS#: 53-70-3		
278	42896	10.60	10.61	80-120	100	()
139	16224	10.60	10.60	0- 60	38	()

101 Benzo(ghi)perylene				CAS#: 191-24-2		
276	115817	11.00	10.99	80-120	100	()
138	43917	11.00	10.99	9- 69	38	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1321.d
Lab Smp Id: 248197008 Client Smp ID: RE36-10-7432
Inj Date : 13-MAR-2010 17:34
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197008|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 21
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.16000	weight of sample
M	13.64830	% moisture

Cpnd Variable

Local Compound Variable

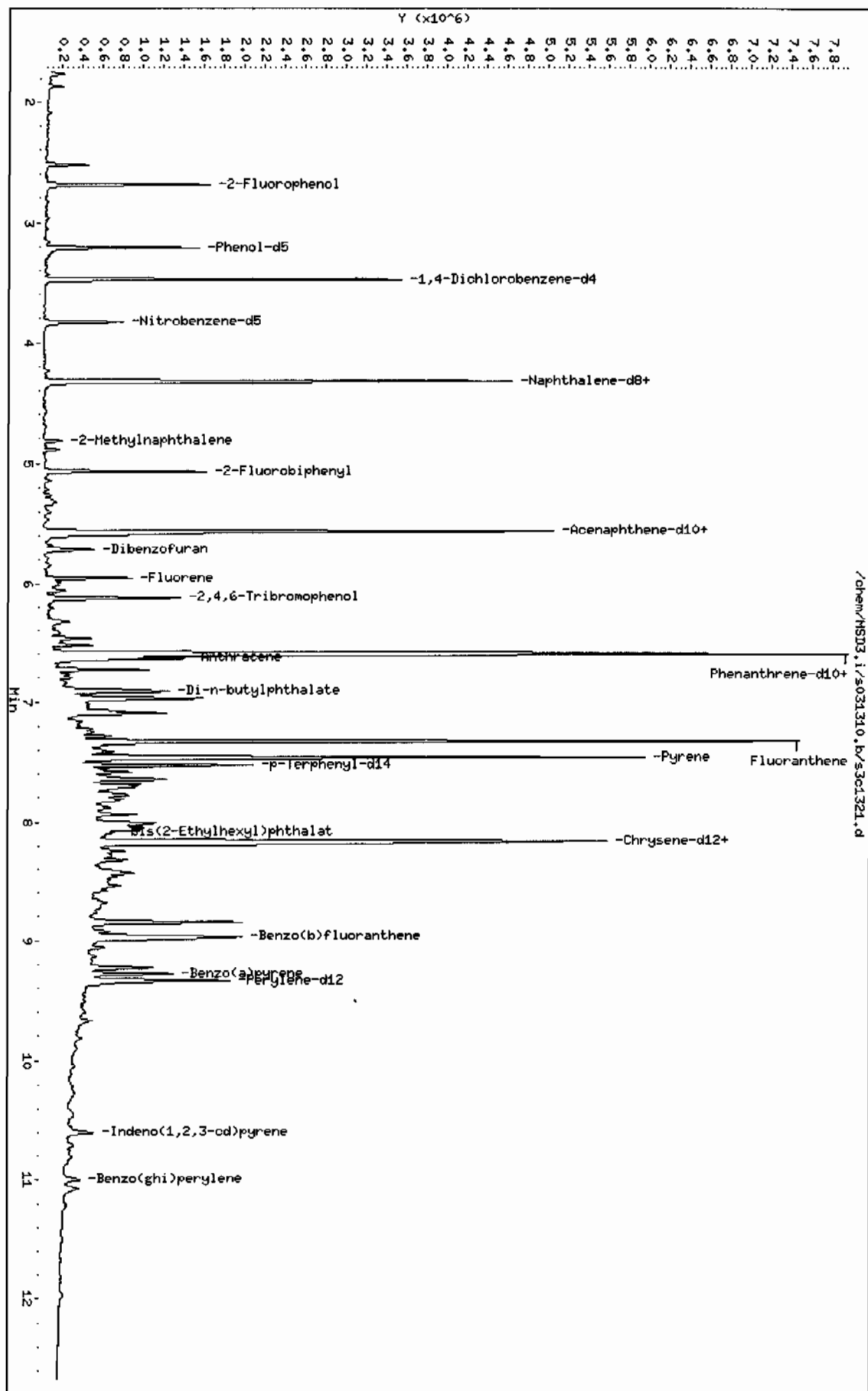
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 67 Phenanthrene-d10	6.593	14125437	40.000
* 91 Chrysene-d12	8.171	9692093	40.000
* 98 Perylene-d12	9.337	3974257	40.000

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					CAS #:		
6.973	2039113	5.77430071	443	0		0	67
11H-Benzo[a]fluorene					CAS #: 238-84-6		
7.647	1603752	6.61880679	508	97	NIST05.L	68696	91
Pyrene, 2-methyl-					CAS #: 3442-78-2		
7.706	1139987	4.70481093	361	95	NIST05.L	68687	91
Pyrene, 1-methyl-					CAS #: 2381-21-7		
7.781	997993	4.11879310	316	93	NIST05.L	68689	91
Benzo[b]naphtho[2,3-d]thiophene					CAS #: 243-46-9		
8.011	1384041	5.71204052	439	93	NIST05.L	81179	91
Chrysene, 2-methyl-					CAS #: 3351-32-4		
8.433	1564425	6.45649848	496	97	NIST05.L	86904	91
Unknown					CAS #:		
8.850	4308351	43.3625756	3330	0		0	98
Perylene					CAS #: 198-55-0		
9.230	2225184	22.3959735	1720	99	NIST05.L	93574	98
Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl					CAS #: 38651-65-9		
9.669	1402880	14.1196689	1080	89	NIST05.L	17047	98

Data File: /chem/MSD3.i/s031310.b/s031321.d
 Date: 13-MAR-2010 17:34
 Client ID: RE36-10-7432
 Sample Info: 12481970081960459121SVHF11.LANL
 Volume Injected (uL): 0.5
 Column phase: 3uM DB-5MS

Instrument: MSD3.1
 Operator: JLDI
 Column diameter: 0.20



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVHF11ILANL

Volume Injected (uL): 0.5

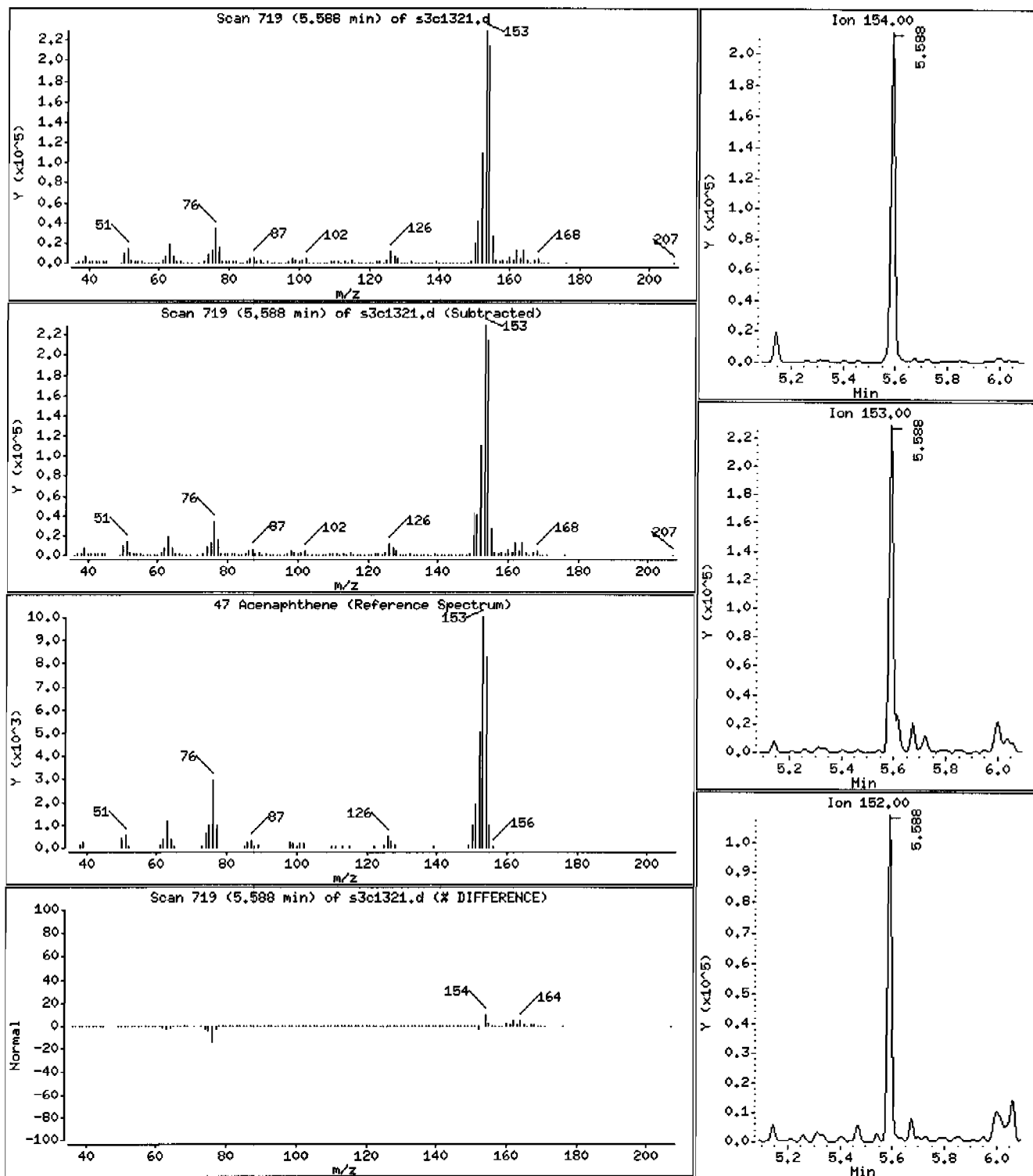
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

47 Acenaphthene

Concentration: 563 ug/Kg



Data File: /chem/MSD3.i/s031310.b/s3c1321.d

Page 3

Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVHF111LANL

Volume Injected (uL): 0.5

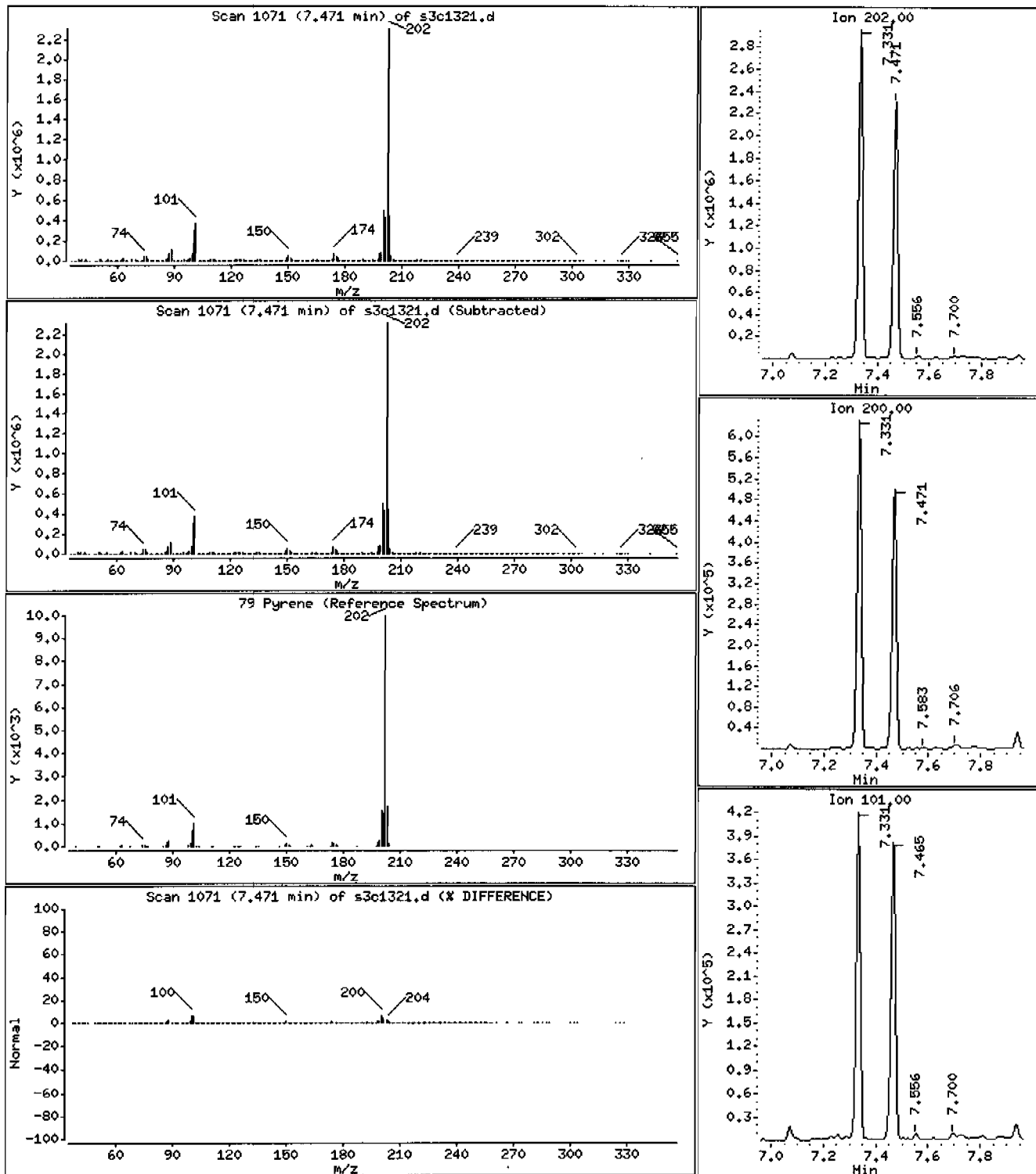
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 5340 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVHF11ILANL

Volume Injected (uL): 0.5

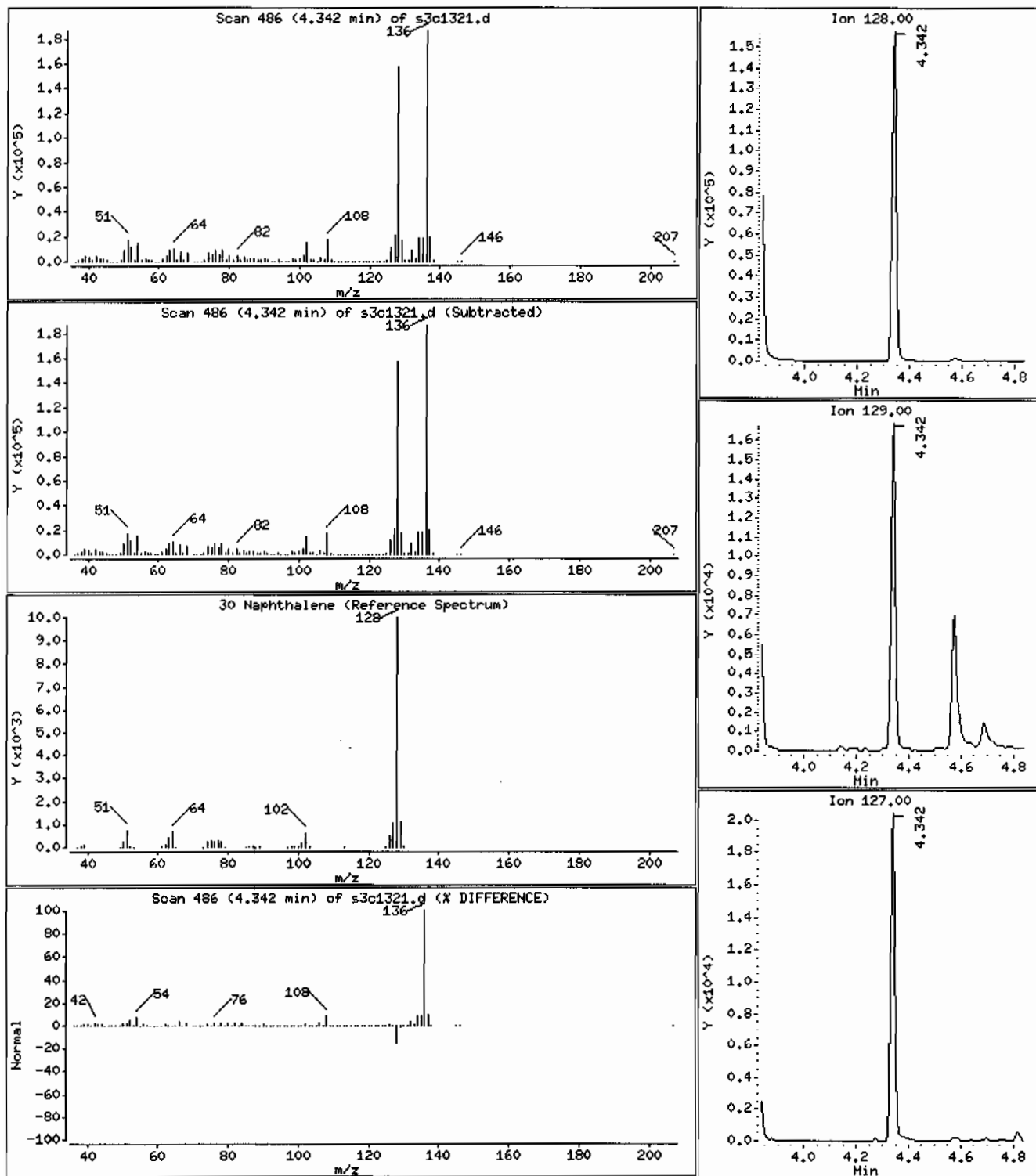
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

30 Naphthalene

Concentration: 277 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

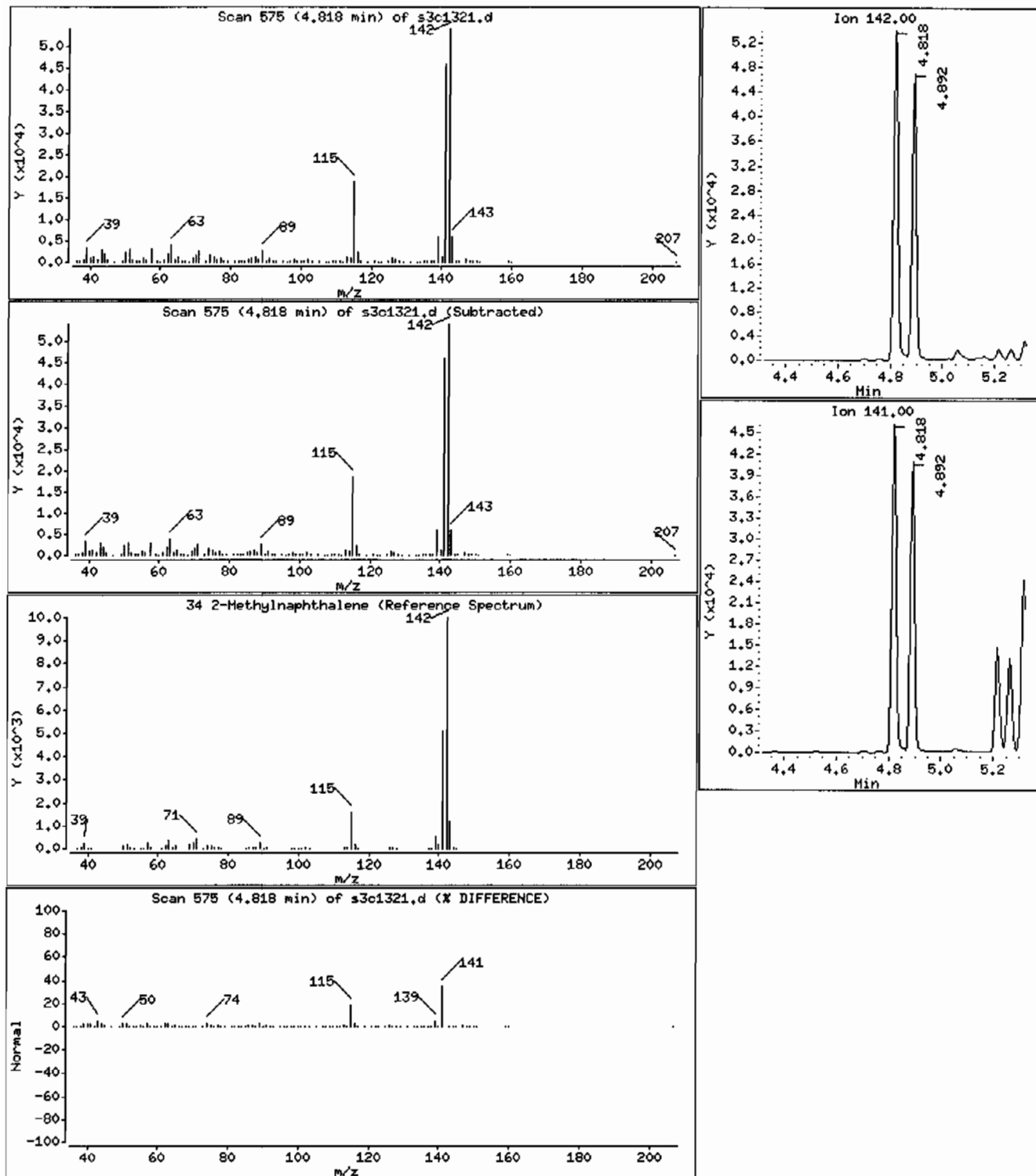
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

34 2-Methylnaphthalene

Concentration: 153 ug/Kg



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVHF11ILANL

Volume Injected (uL): 0.5

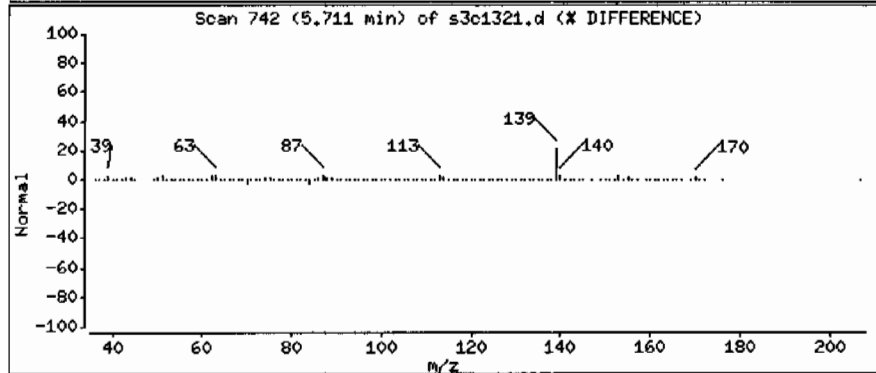
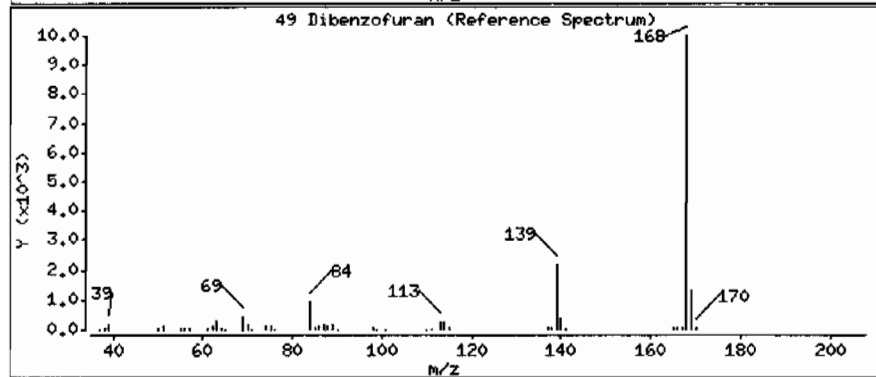
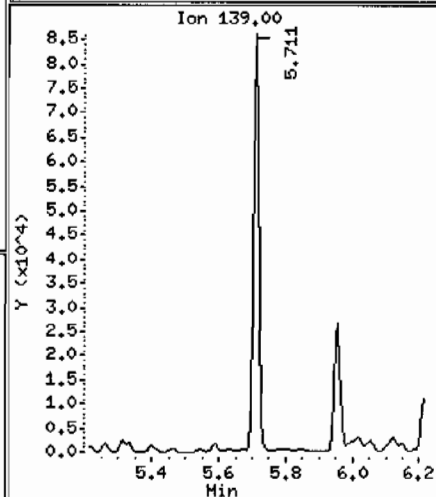
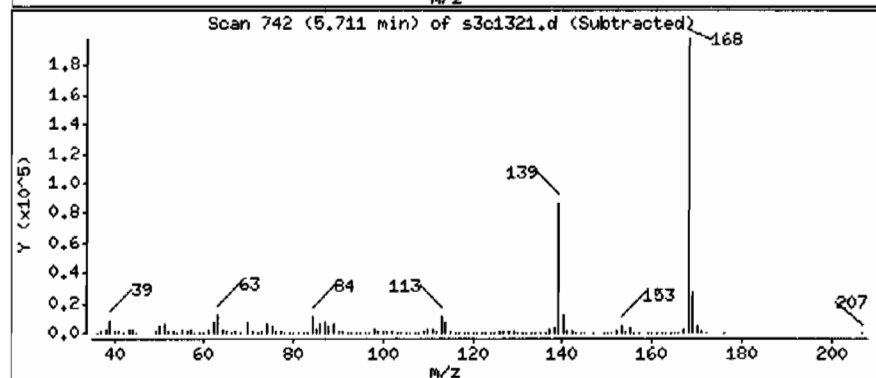
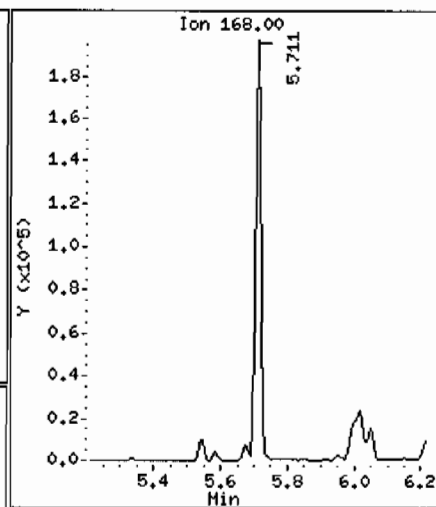
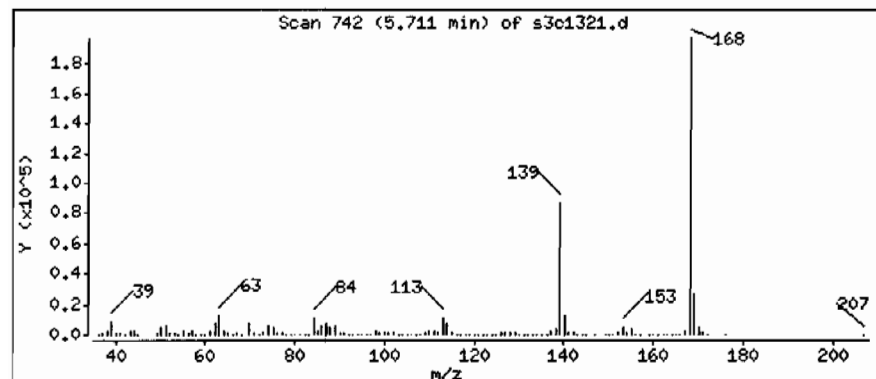
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

49 Dibenzofuran

Concentration: 404 ug/Kg



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

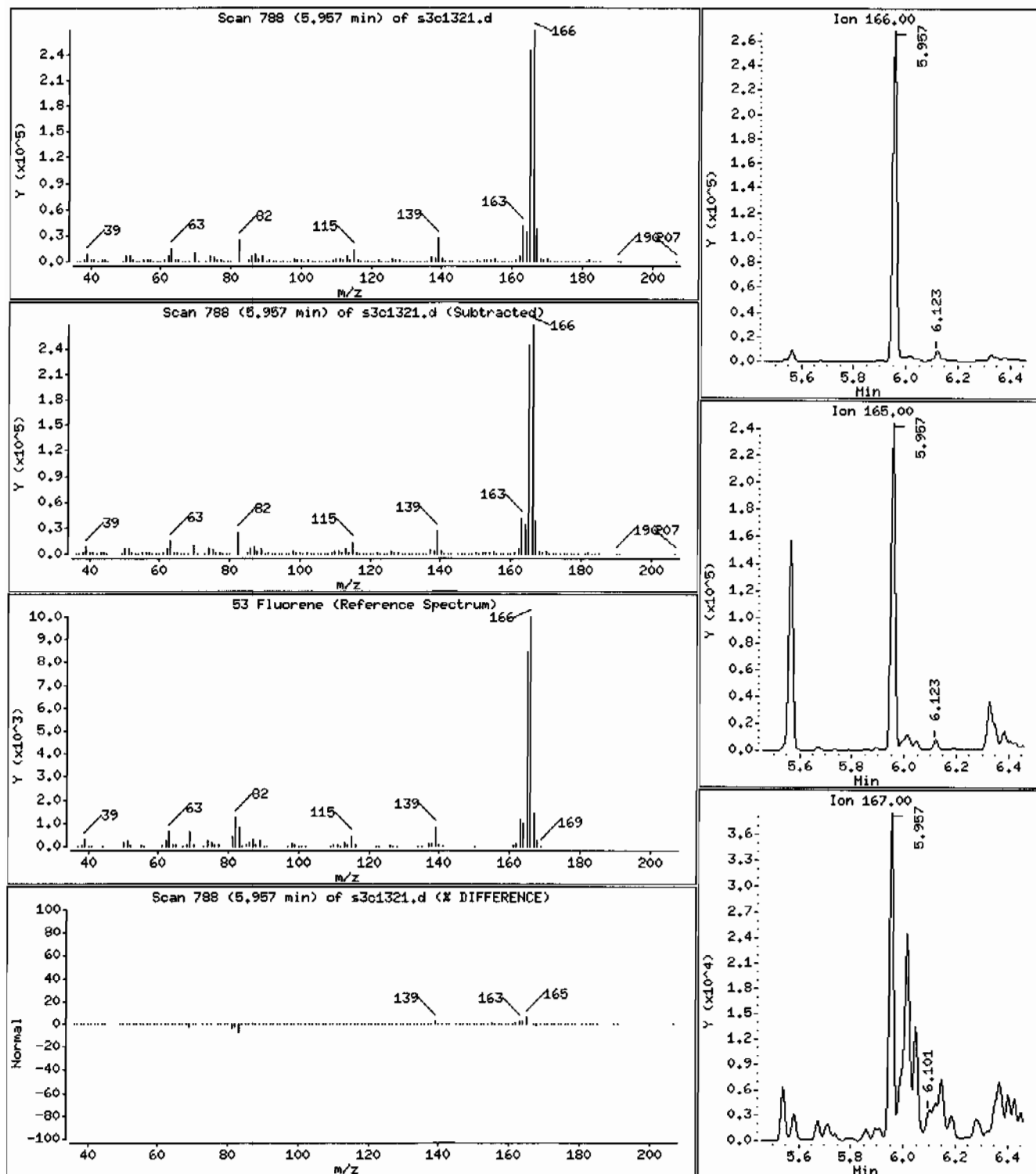
Operator: JLM1

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 627 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

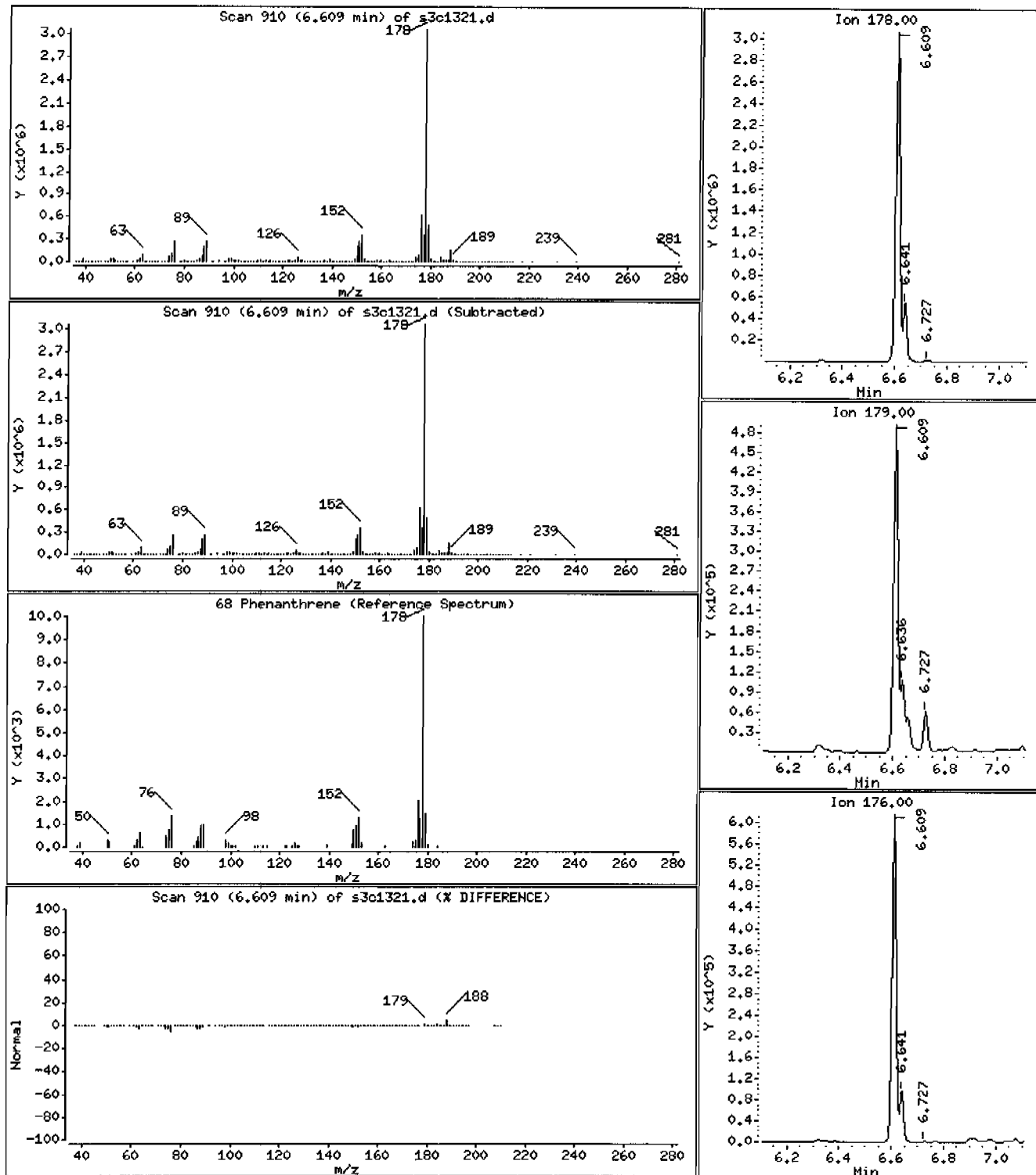
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 5580 ug/Kg



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: HSD3.i

Sample Info: 12481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

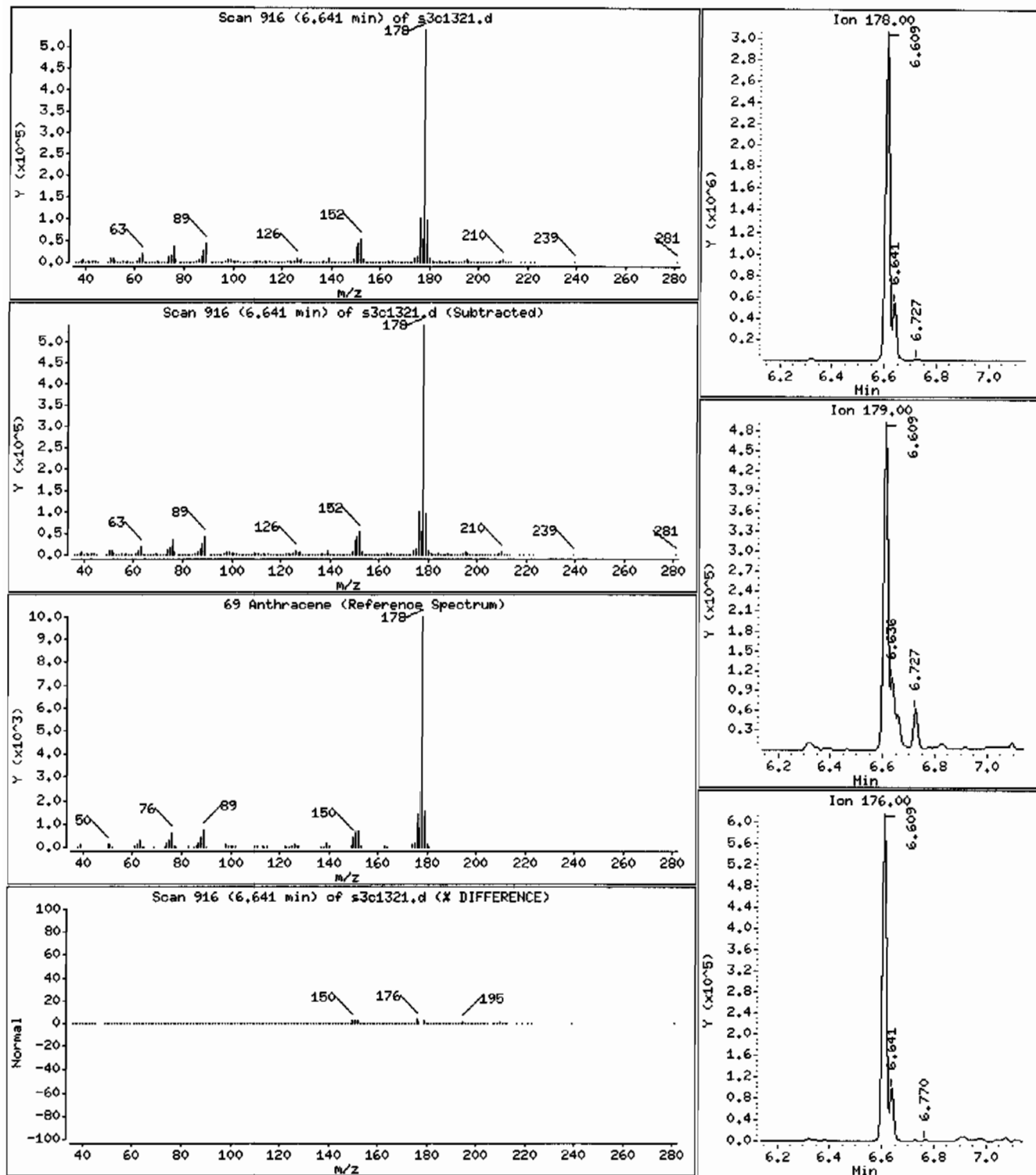
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 958 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVHF111LANL

Volume Injected (uL): 0.5

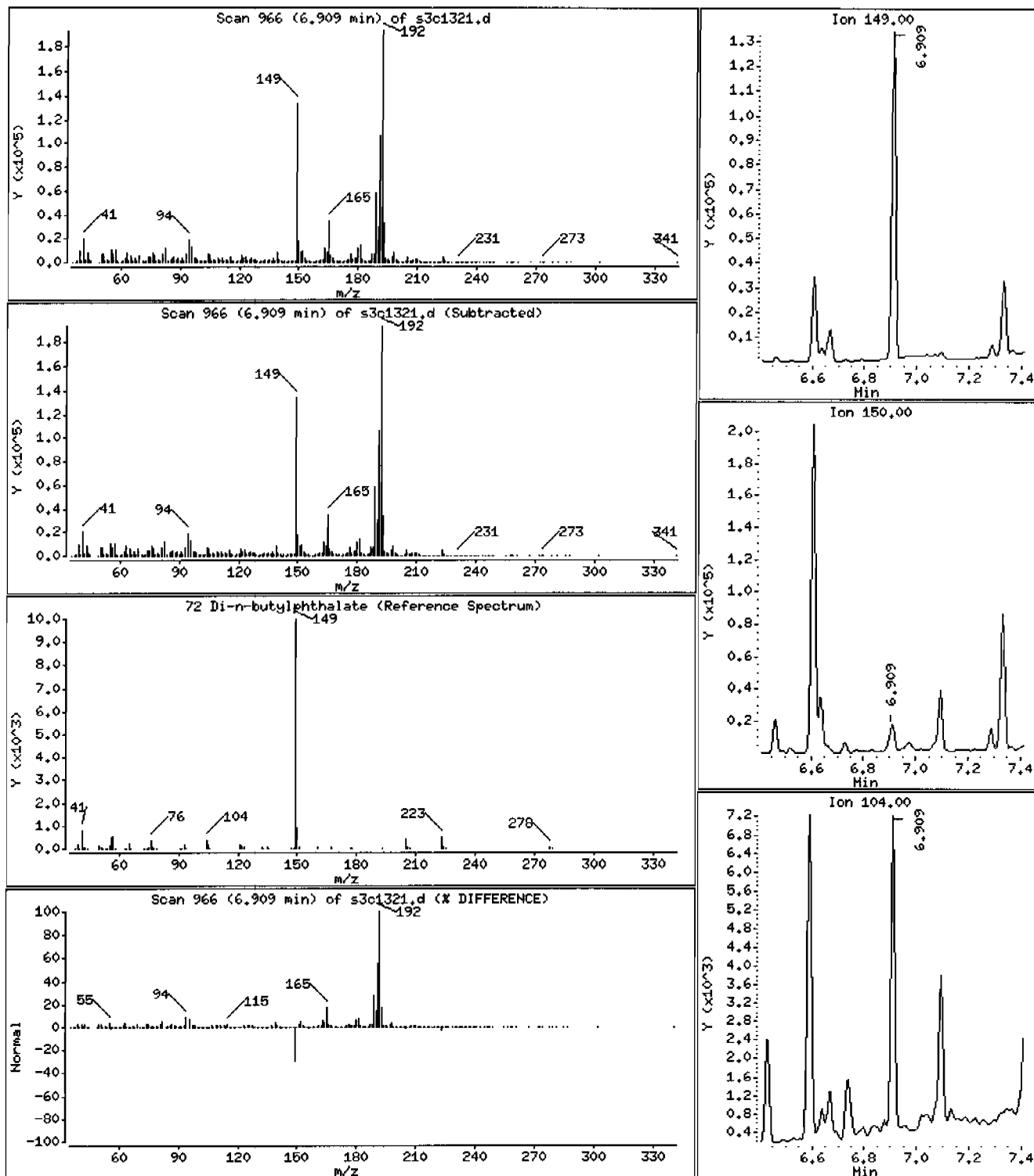
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

72 Di-n-butylphthalate

Concentration: 193 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: HSD3.i

Sample Info: I2481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

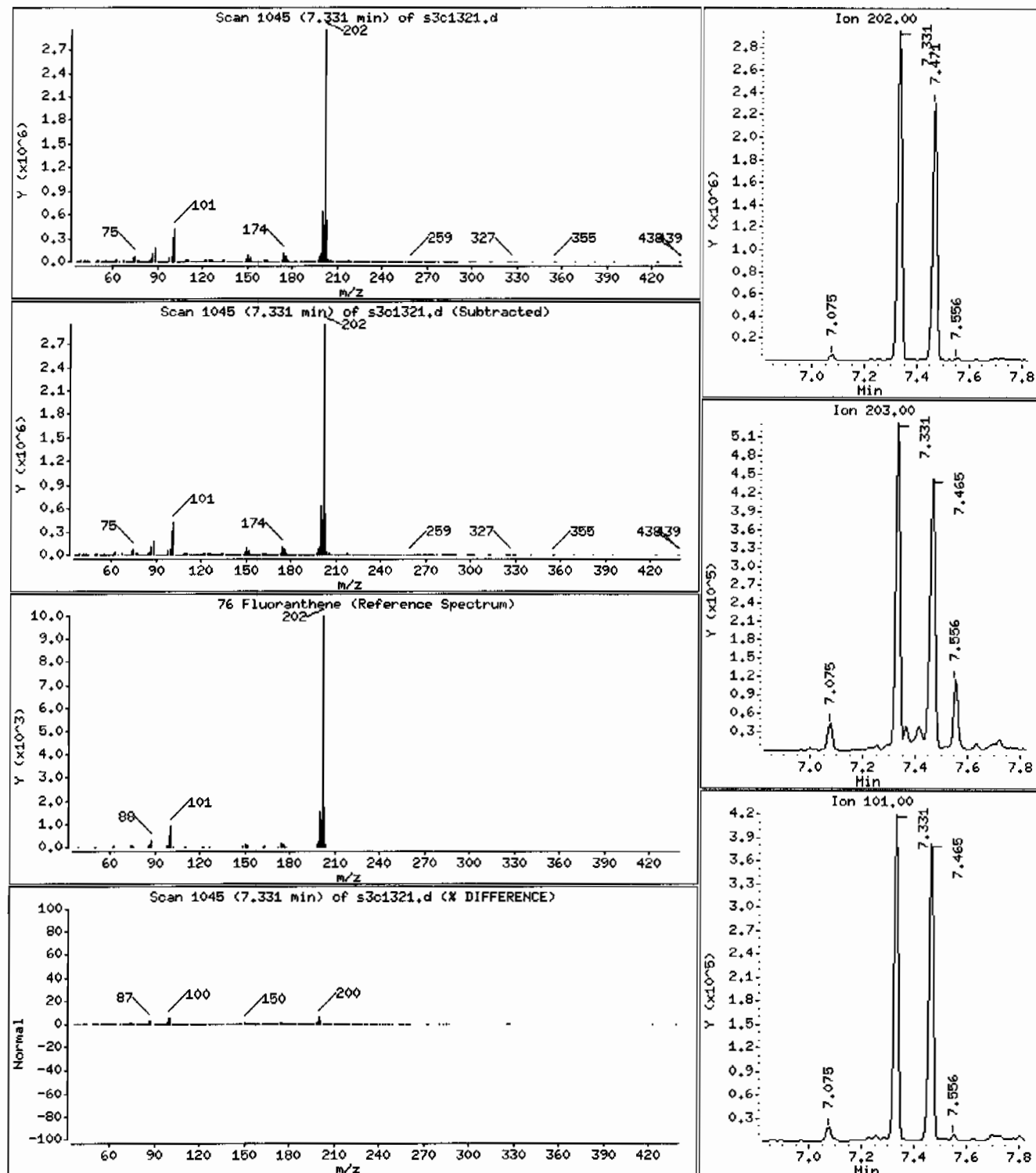
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 5880 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVMF111LANL

Volume Injected (uL): 0.5

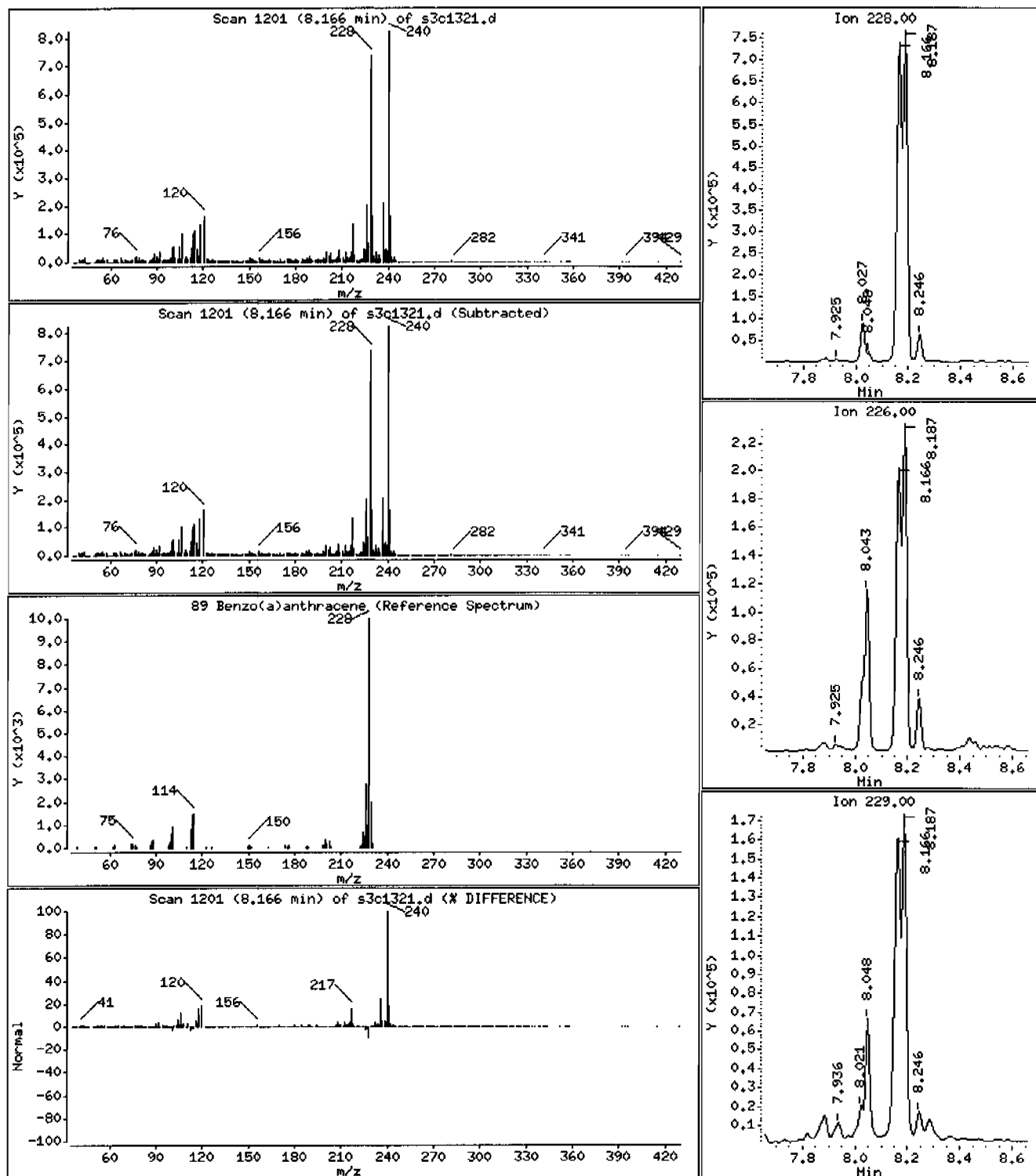
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 2550 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: I2481970081960459121SVHF111LANL

Volume Injected (uL): 0.5

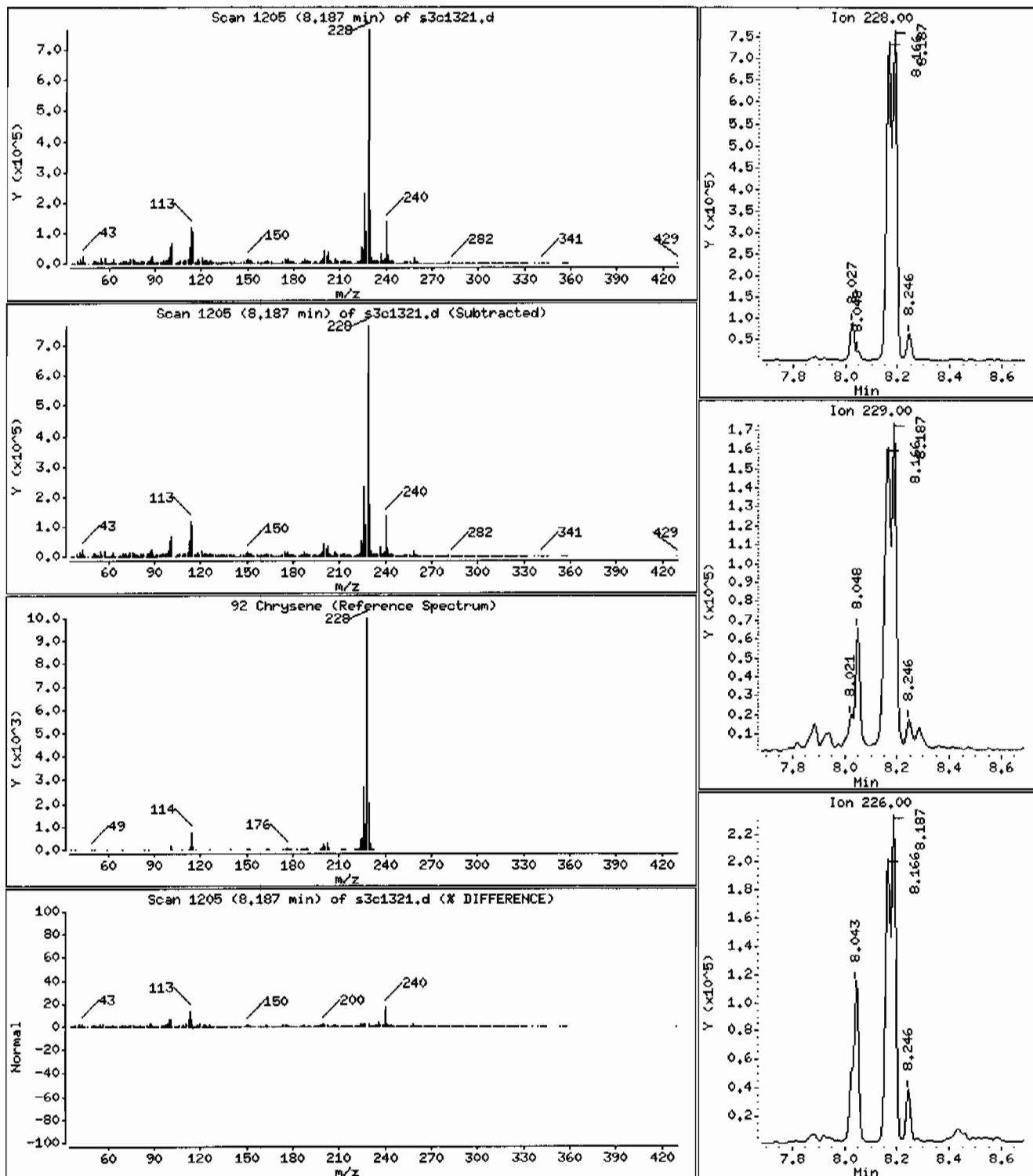
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 2350 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: I248197008196045912ISVMF111LANL

Volume Injected (uL): 0.5

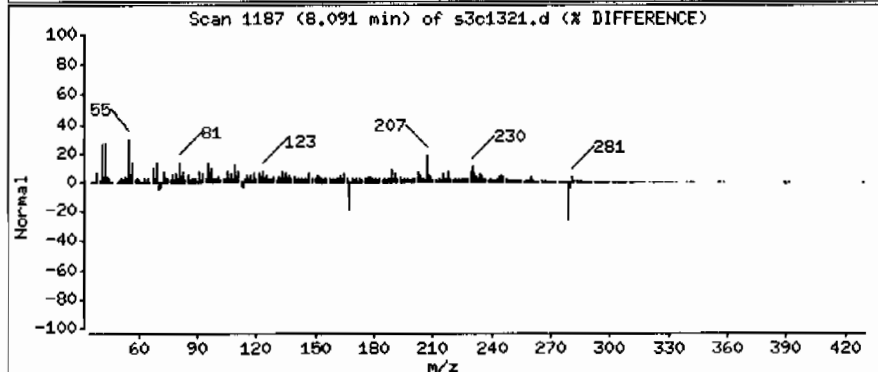
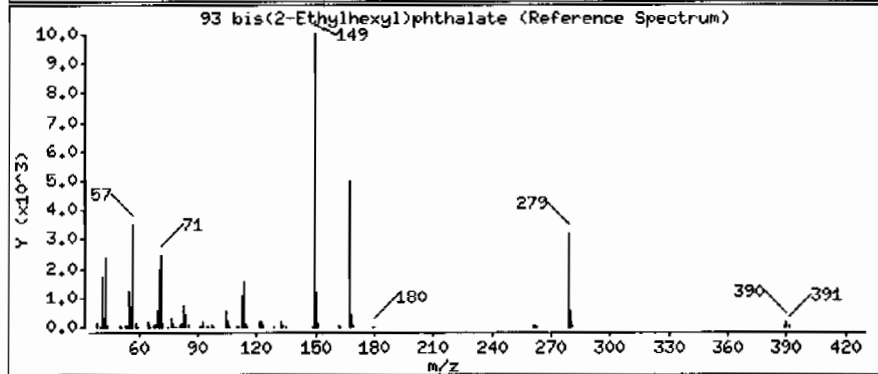
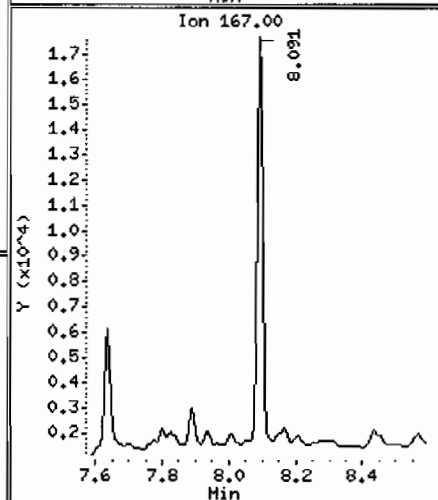
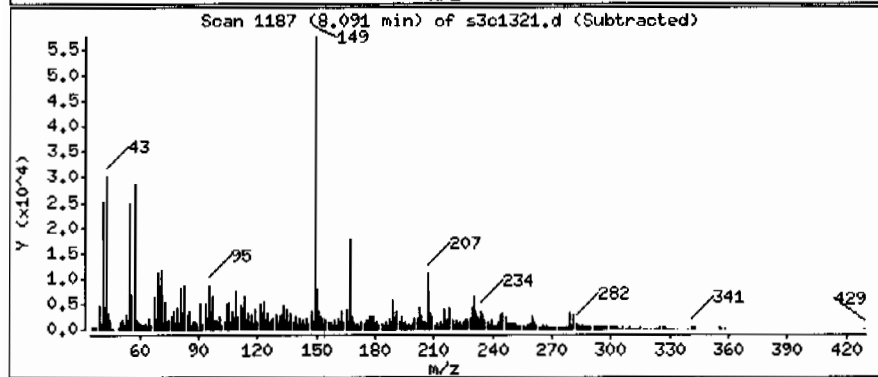
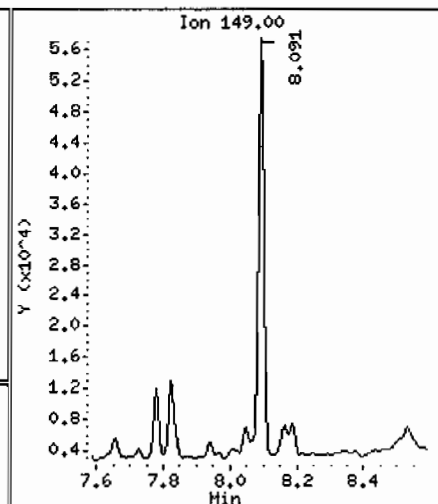
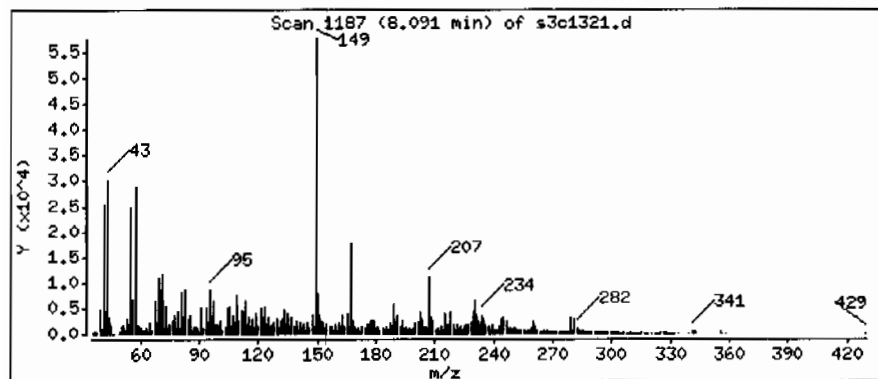
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

93 bis(2-Ethylhexyl)phthalate

Concentration: 178 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

Volume Injected (uL): 0.5

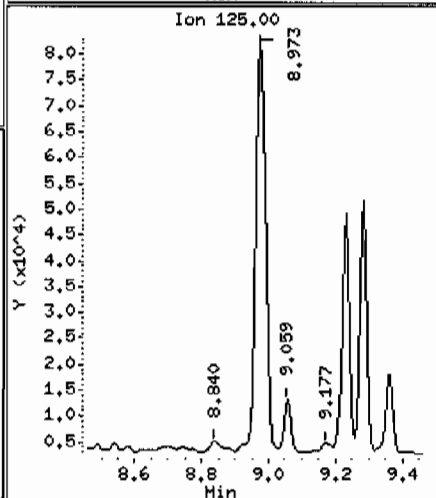
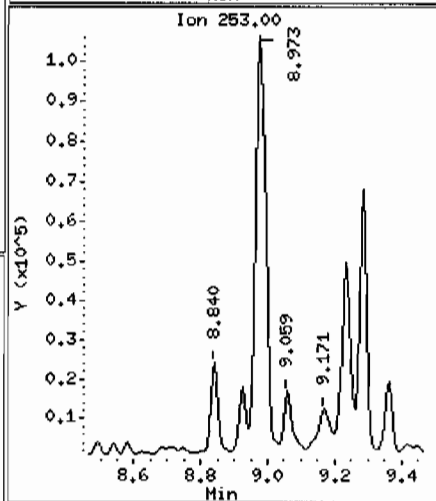
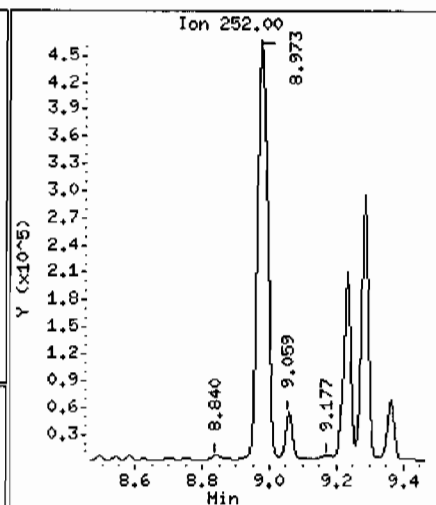
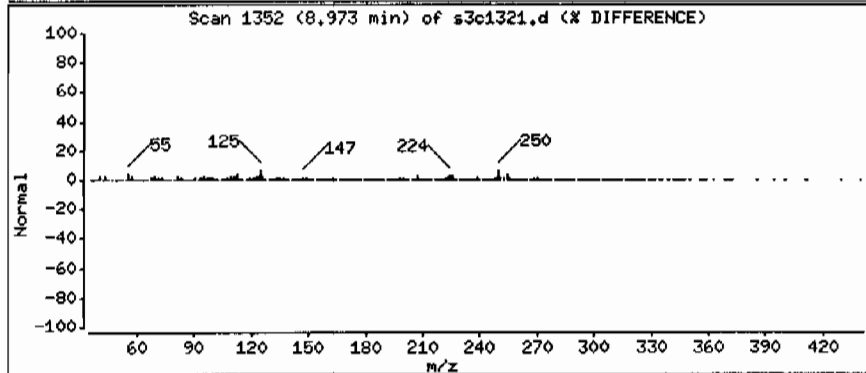
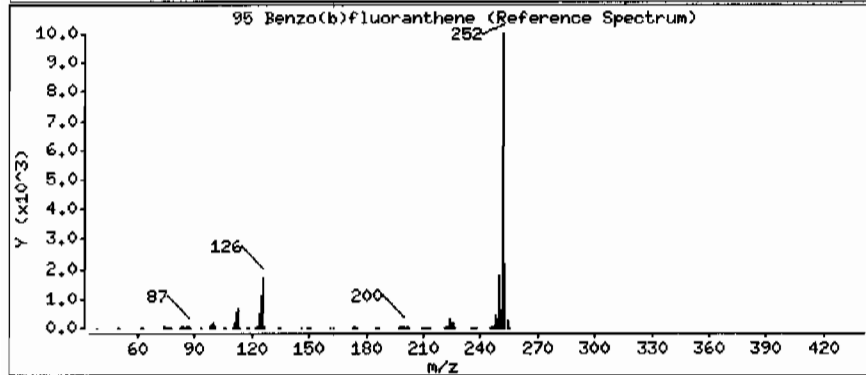
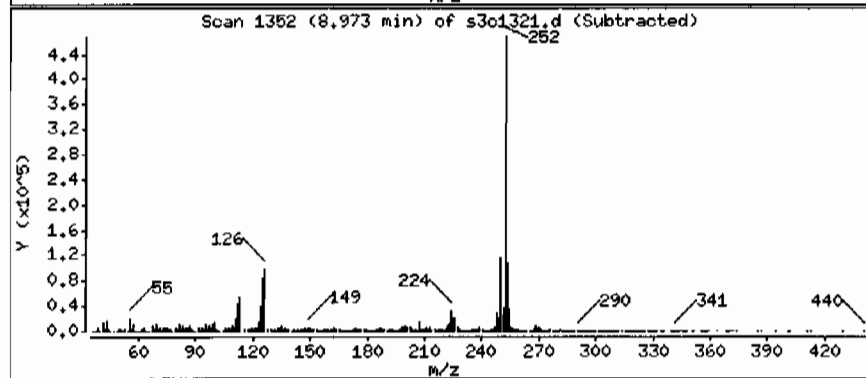
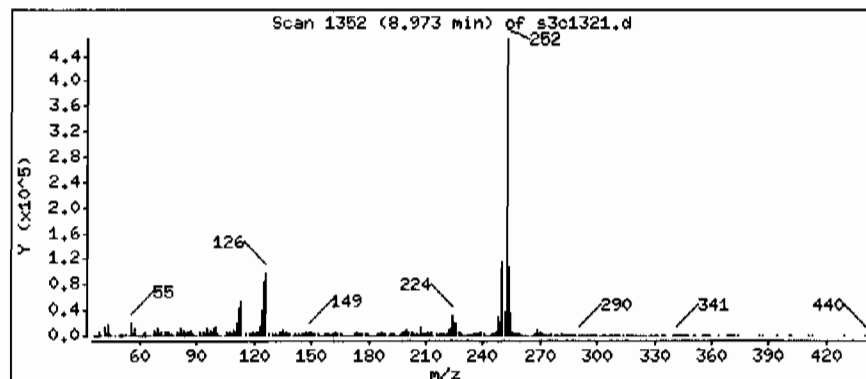
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 4120 ug/Kg



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF11ILANL

Volume Injected (uL): 0.5

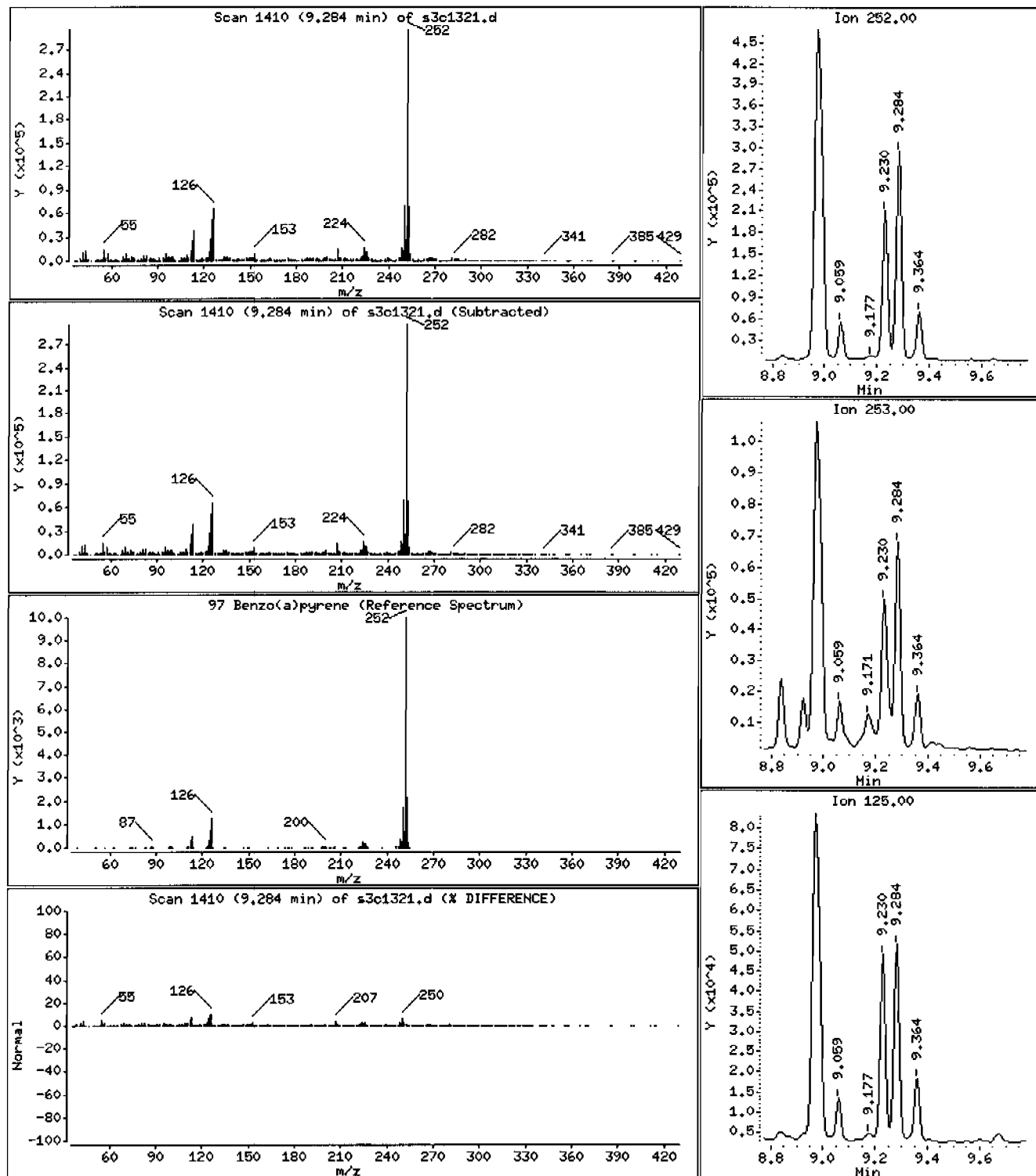
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 2080 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVHF111LANL

Volume Injected (uL): 0.5

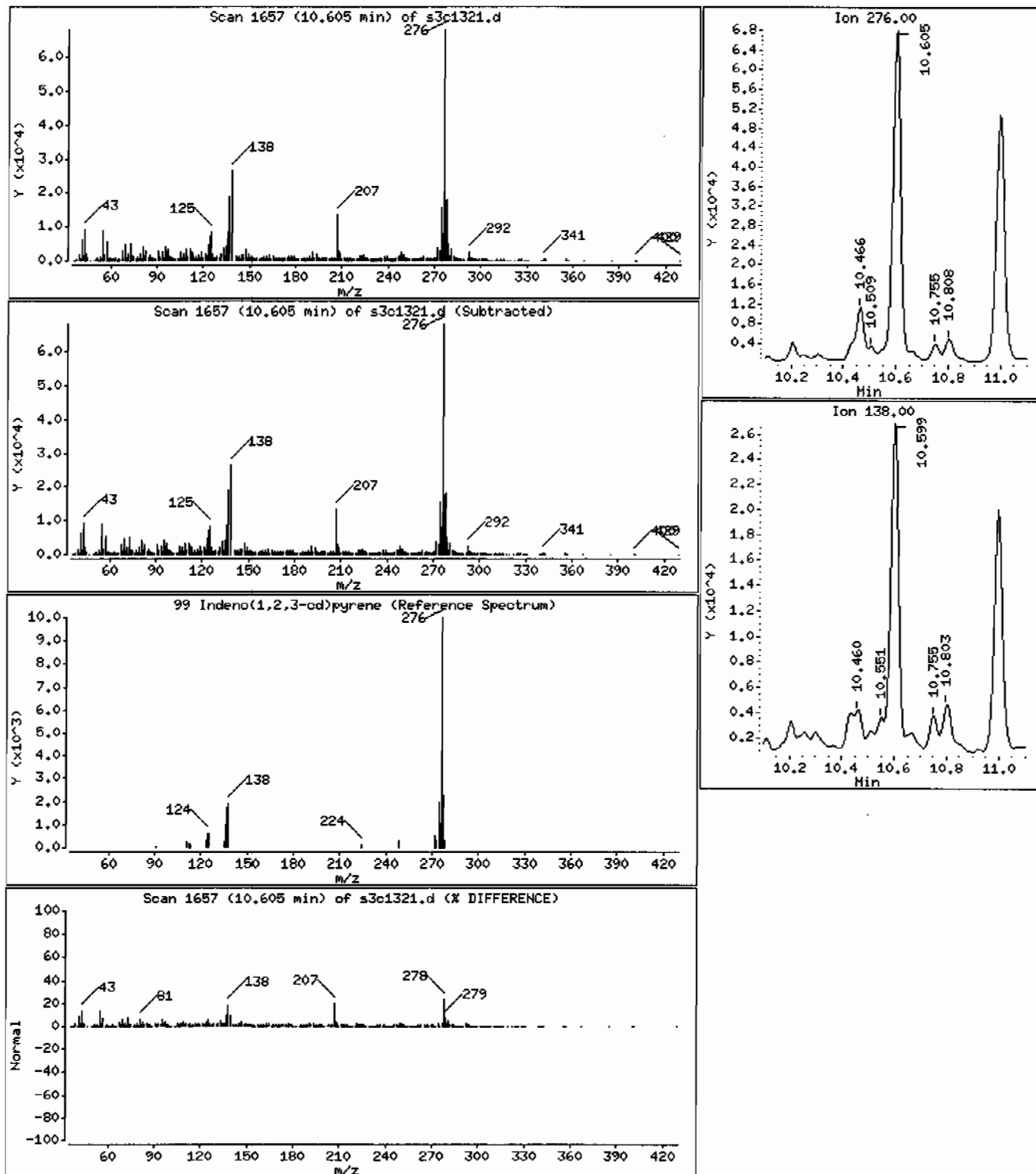
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 810 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVHF11ILANL

Volume Injected (uL): 0.5

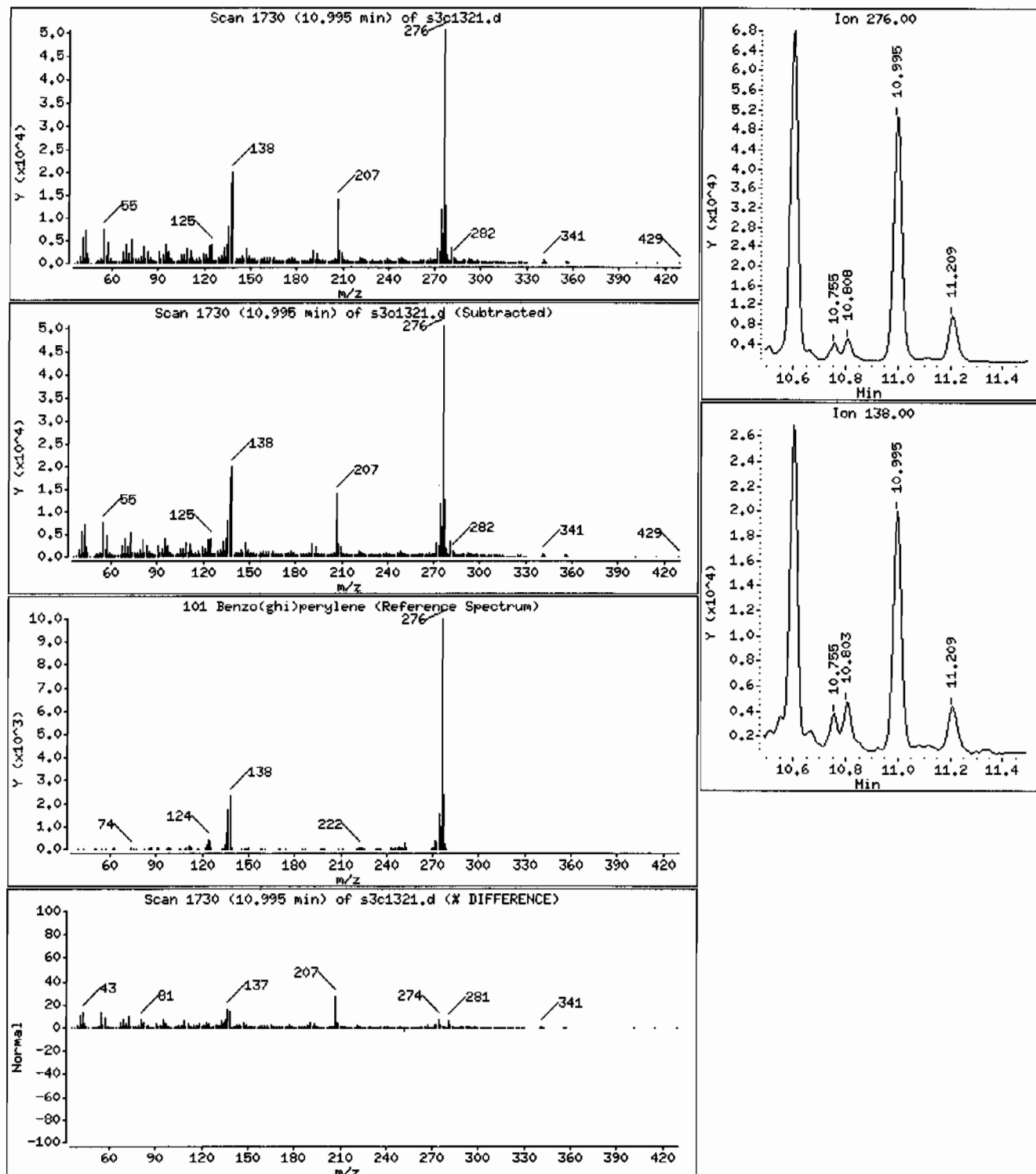
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 802 ug/Kg



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVMF111LANL

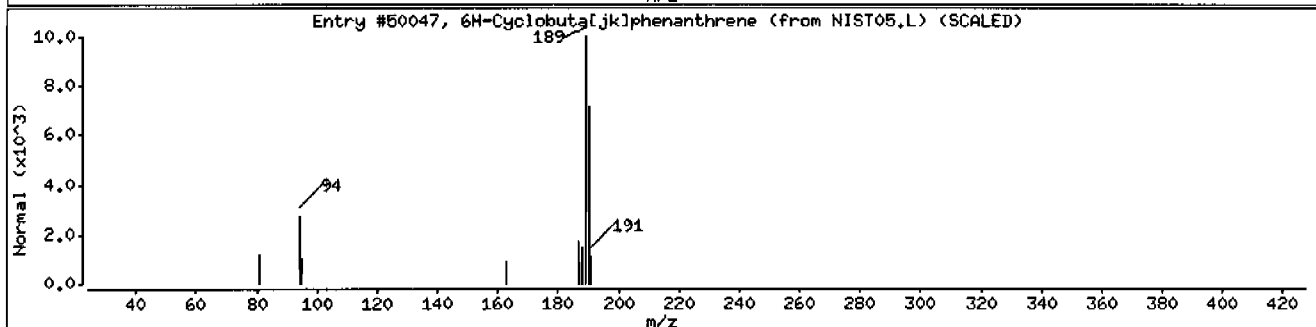
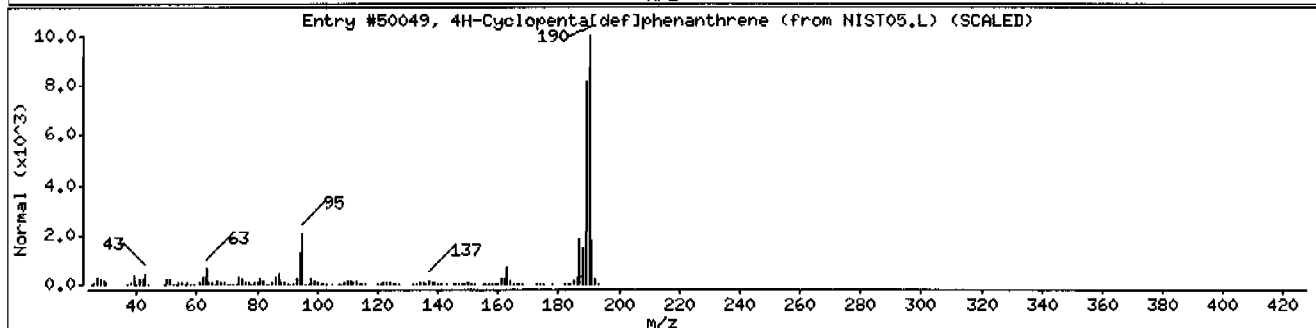
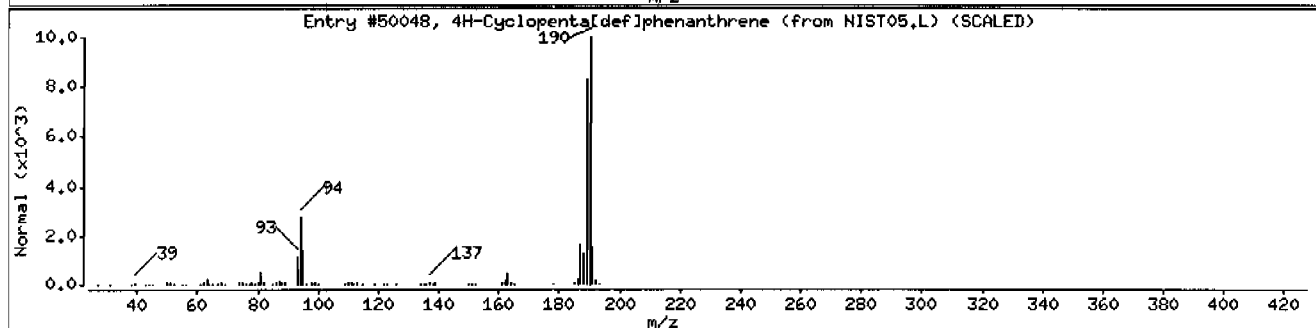
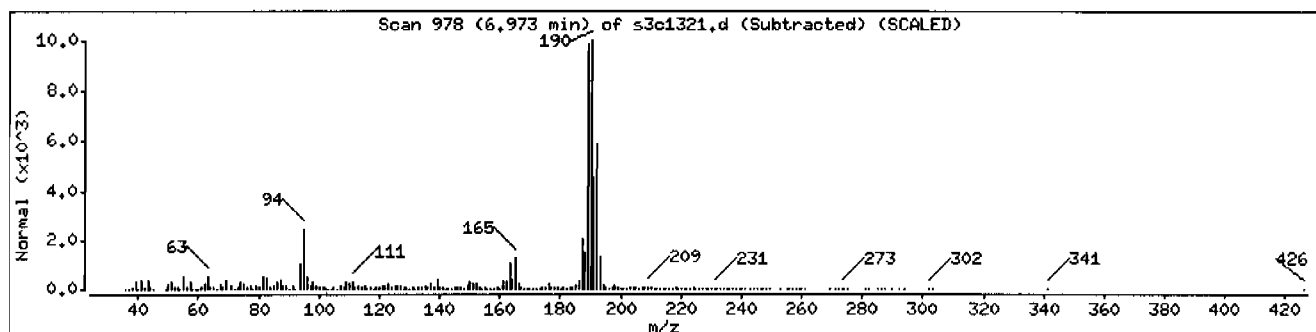
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50048	62	C15H10	190
4H-Cyclopenta[def]phenanthrene	203-64-5	NIST05.L	50049	60	C15H10	190
6H-Cyclobuta[jk]phenanthrene	83469-43-6	NIST05.L	50047	58	C15H10	190



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVHF11ILANL

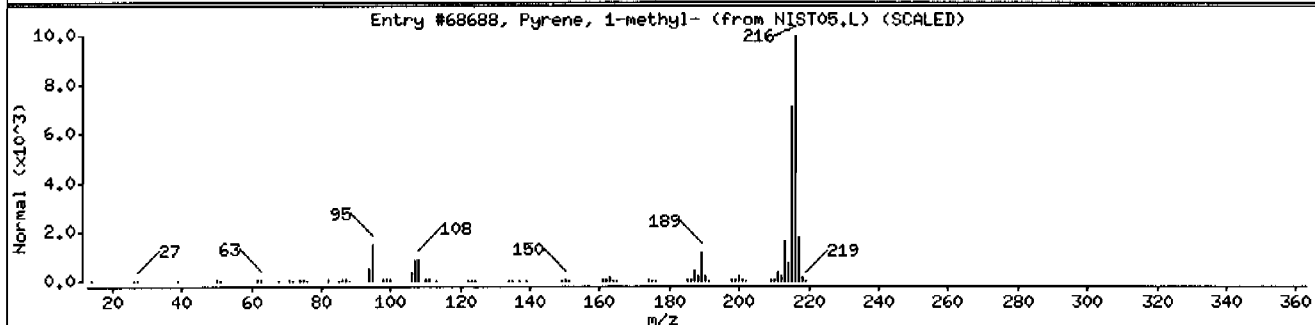
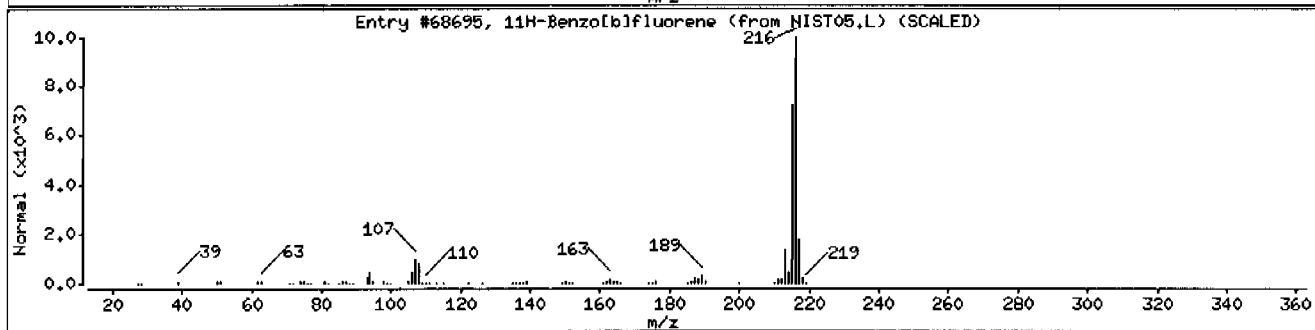
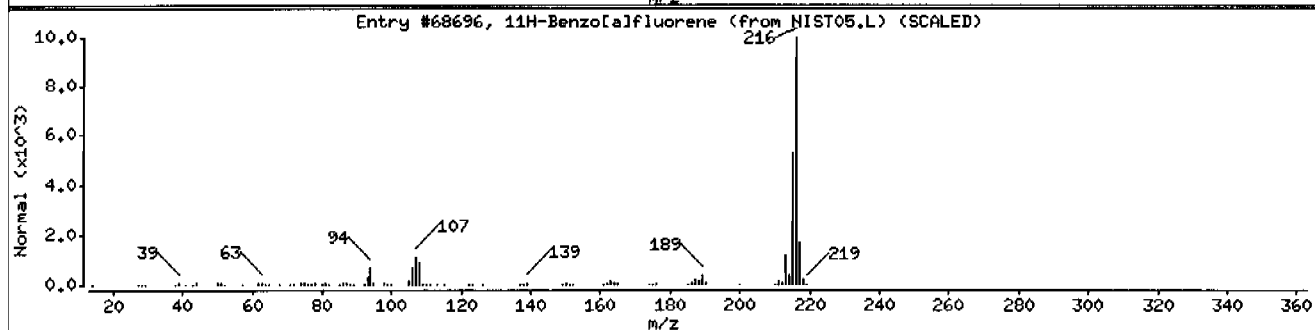
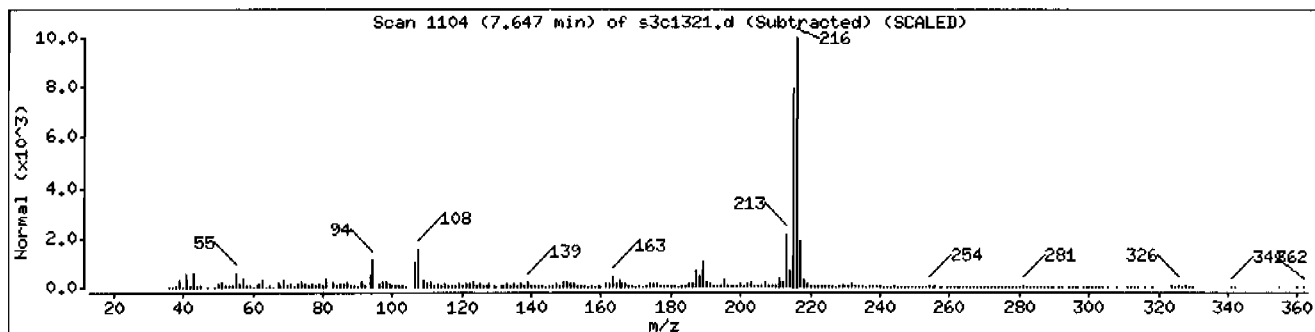
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
11H-Benzo[a]fluorene	238-84-6	NIST05.L	68696	97	C17H12	216
11H-Benzo[b]fluorene	243-17-4	NIST05.L	68695	96	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	94	C17H12	216



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

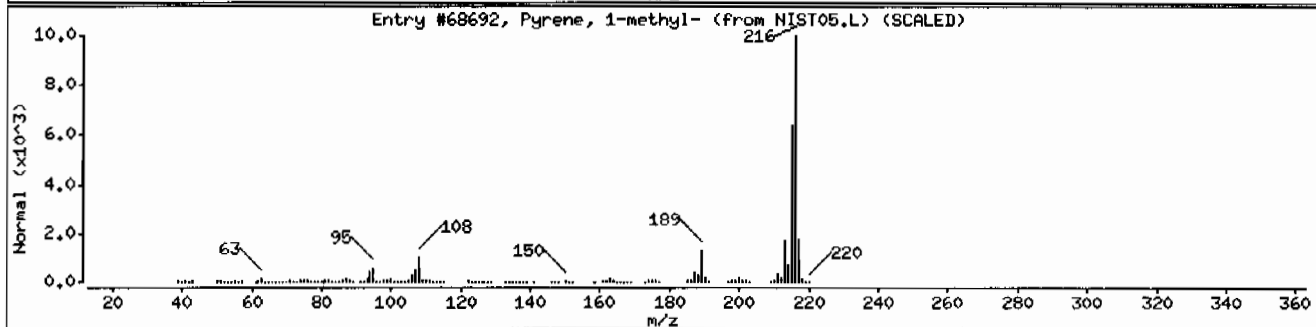
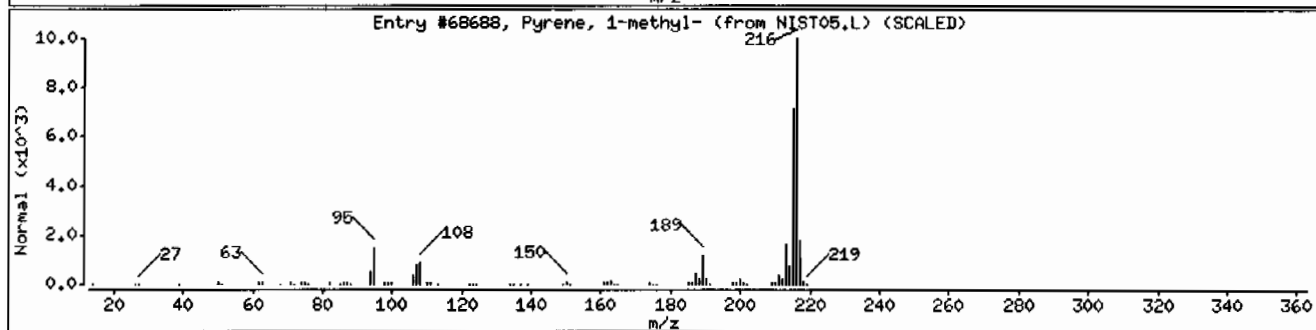
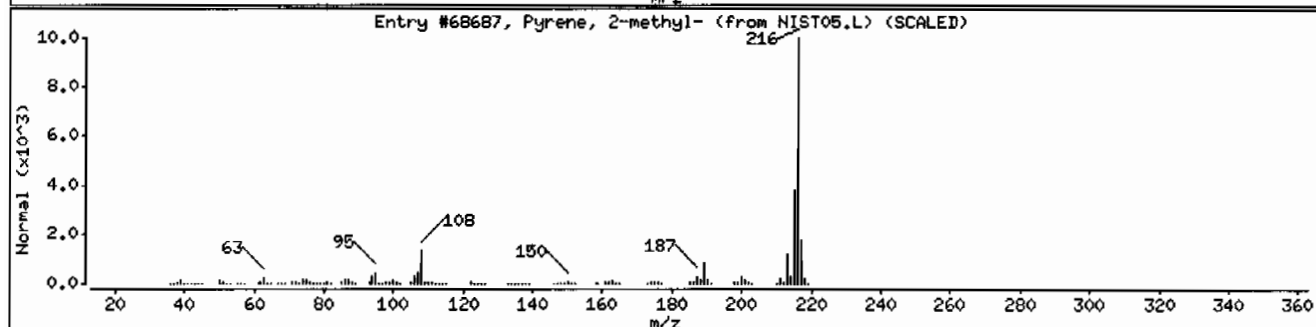
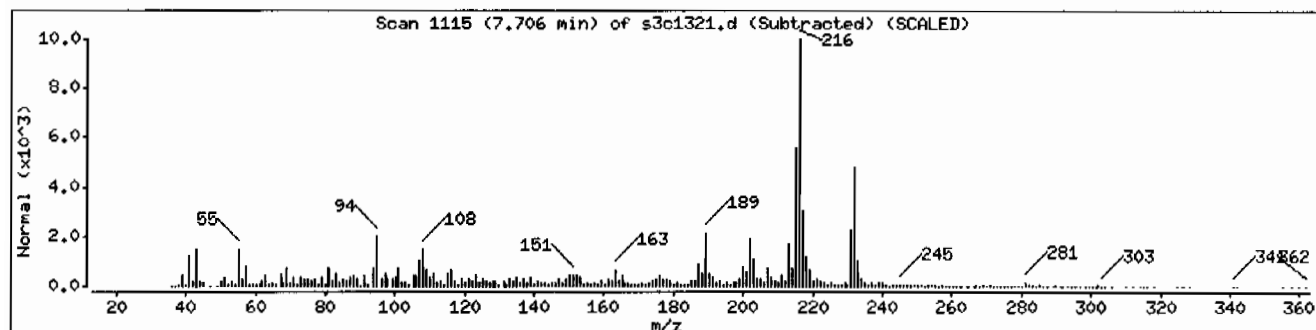
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 2-methyl-	3442-78-2	NIST05.L	68687	95	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	91	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68692	90	C17H12	216



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVMFI11LANL

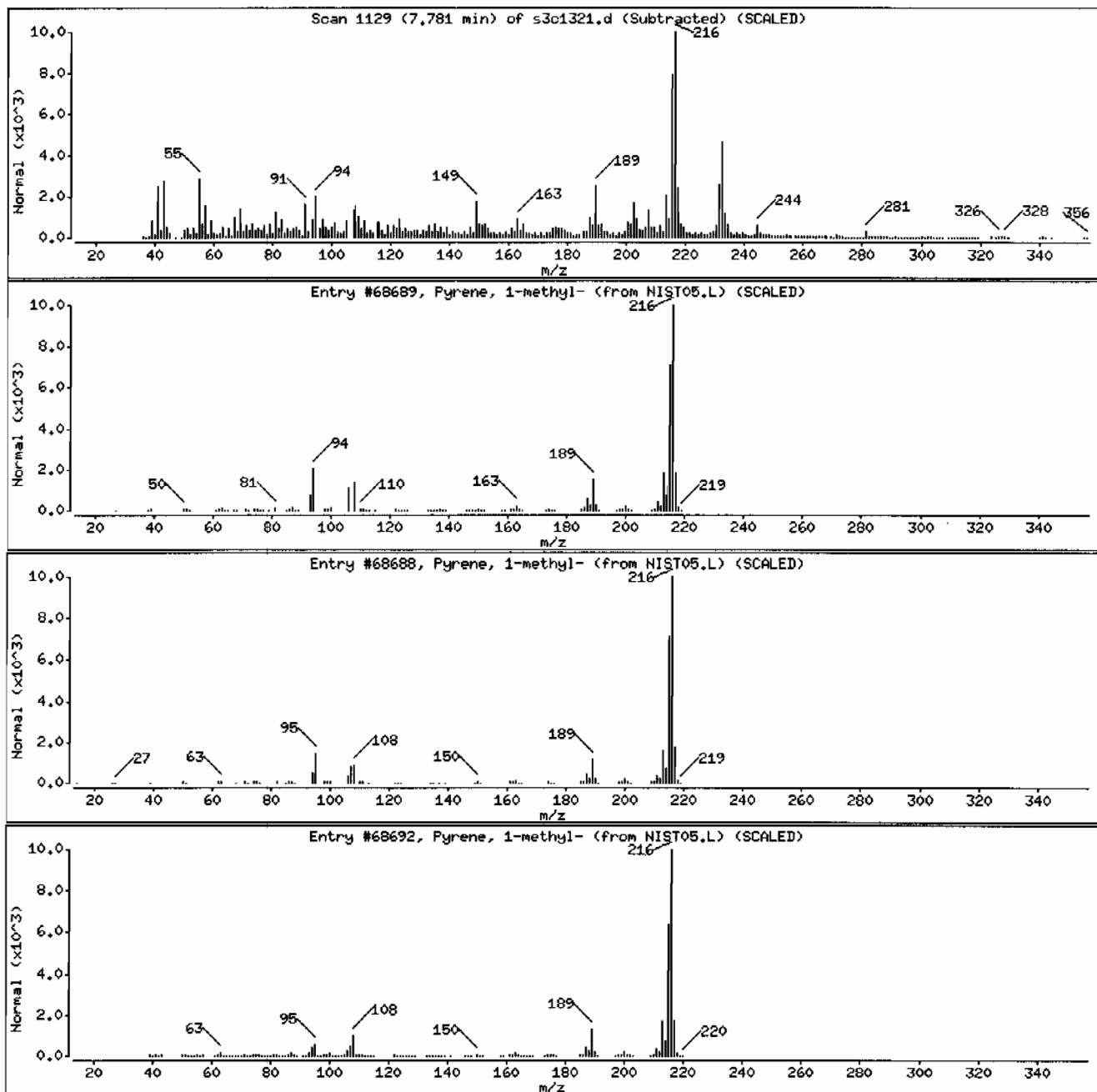
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68689	93	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68688	93	C17H12	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68692	64	C17H12	216



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF11ILANL

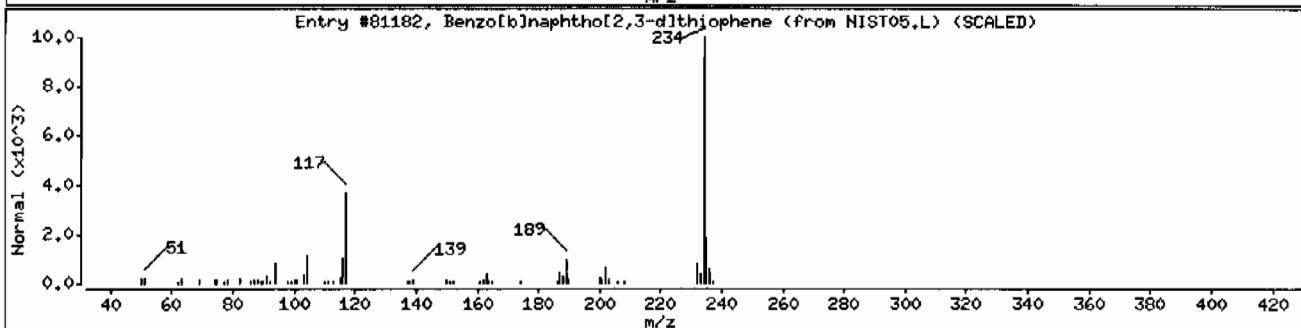
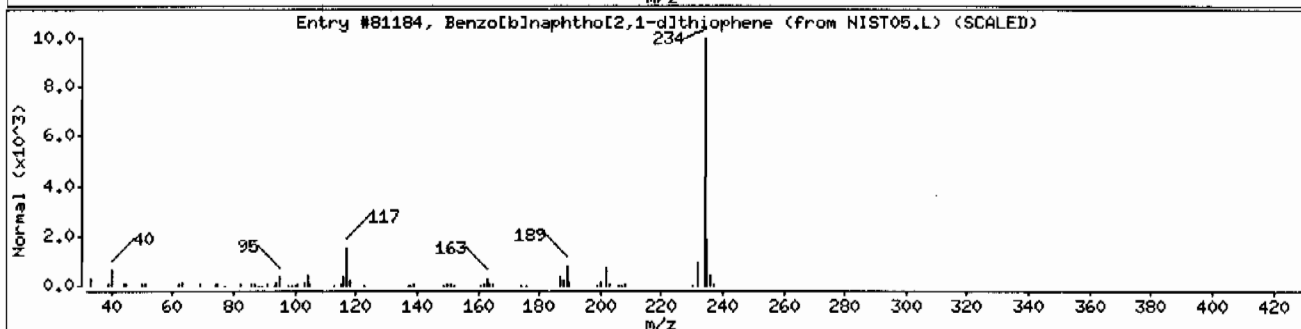
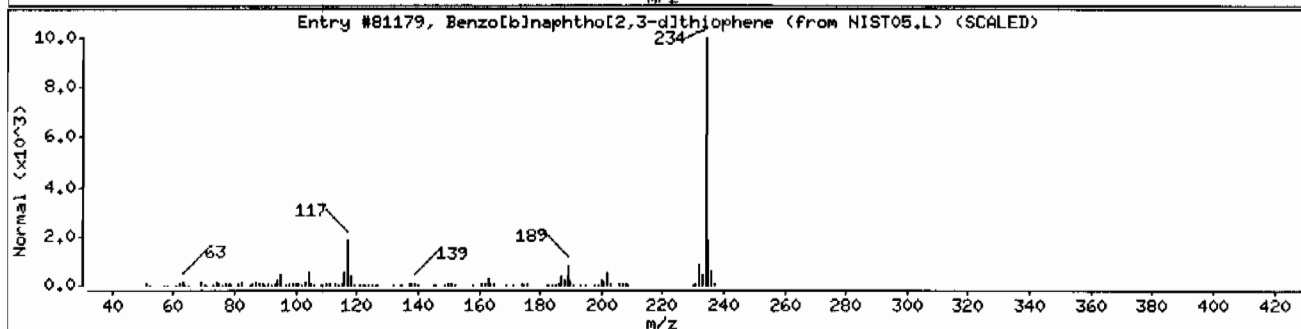
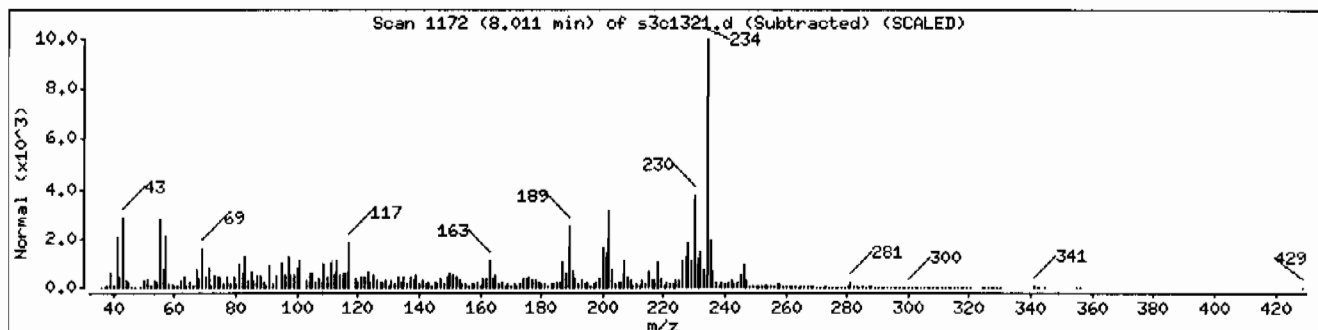
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzo[b]naphtho[2,3-d]thiophene	243-46-9	NIST05.L	81179	93	C16H10S	234
Benzo[b]naphtho[2,1-d]thiophene	239-35-0	NIST05.L	81184	76	C16H10S	234
Benzo[b]naphtho[2,3-d]thiophene	243-46-9	NIST05.L	81182	76	C16H10S	234



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

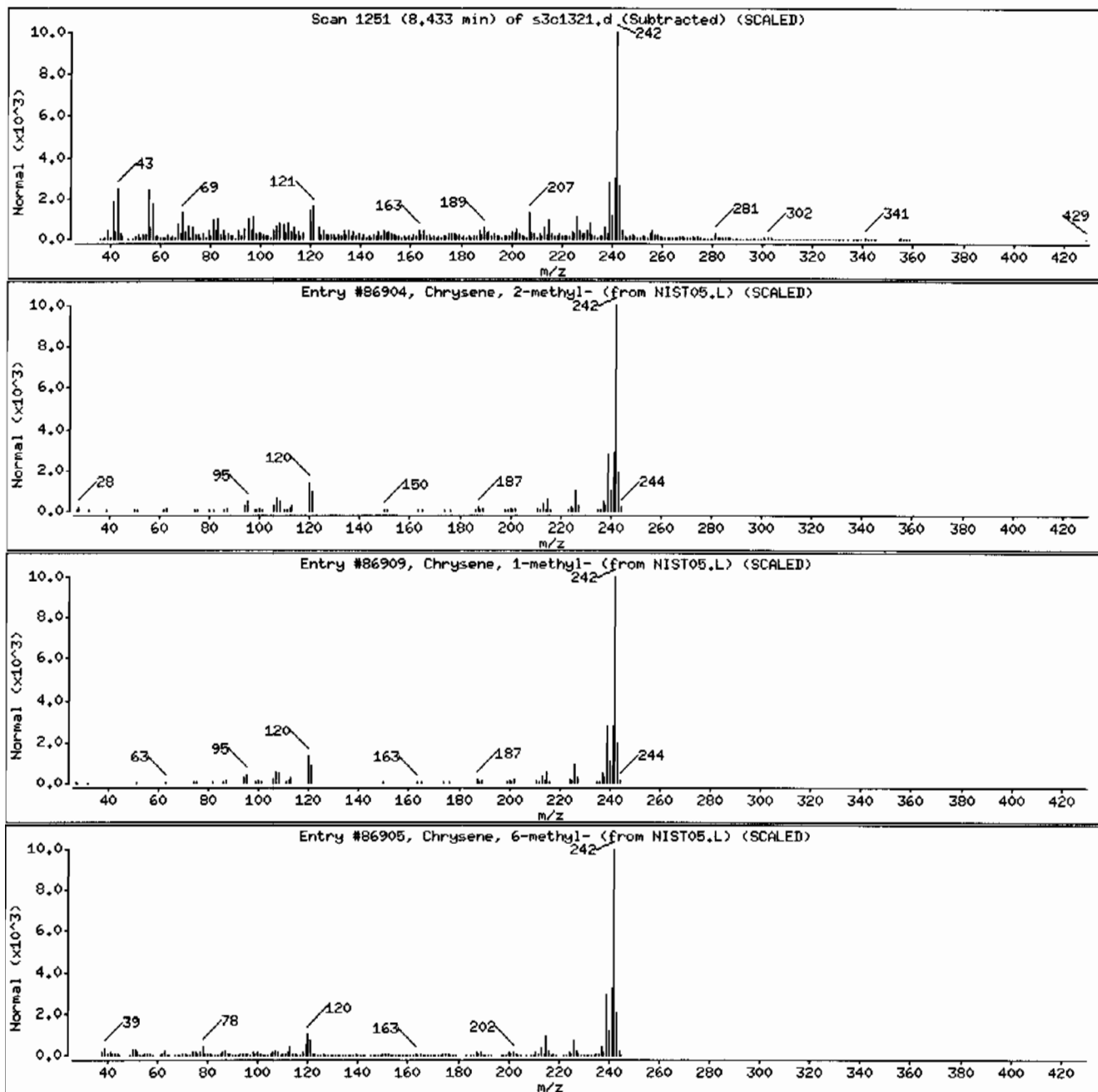
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chrysene, 2-methyl-	3351-32-4	NIST05.L	86904	97	C19H14	242
Chrysene, 1-methyl-	3351-28-8	NIST05.L	86909	96	C19H14	242
Chrysene, 6-methyl-	3697-24-3	NIST05.L	86905	94	C19H14	242



Date: 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 1248197008196045912ISVHF11ILANL

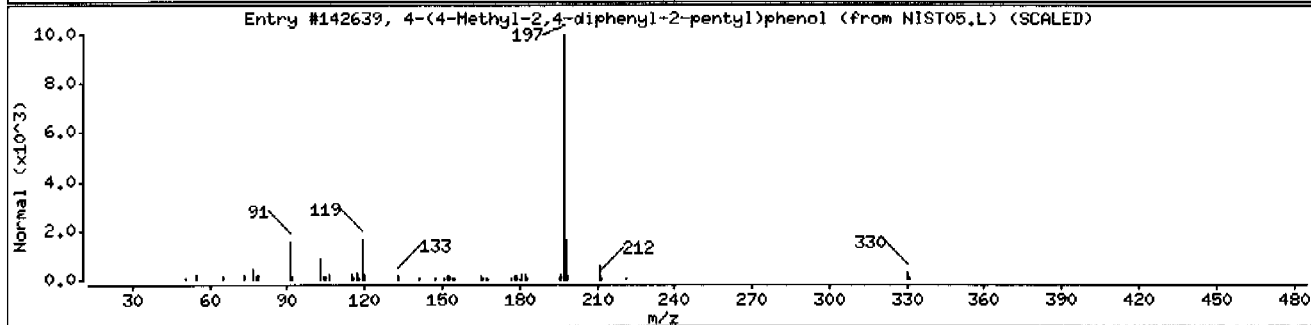
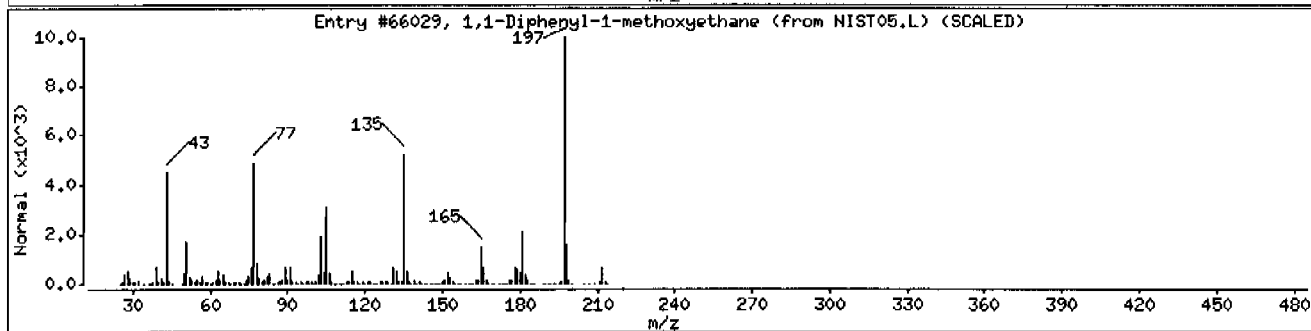
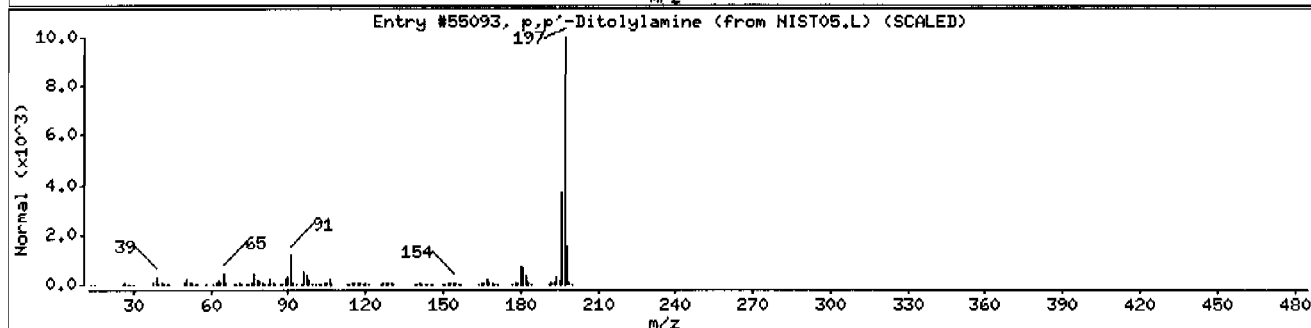
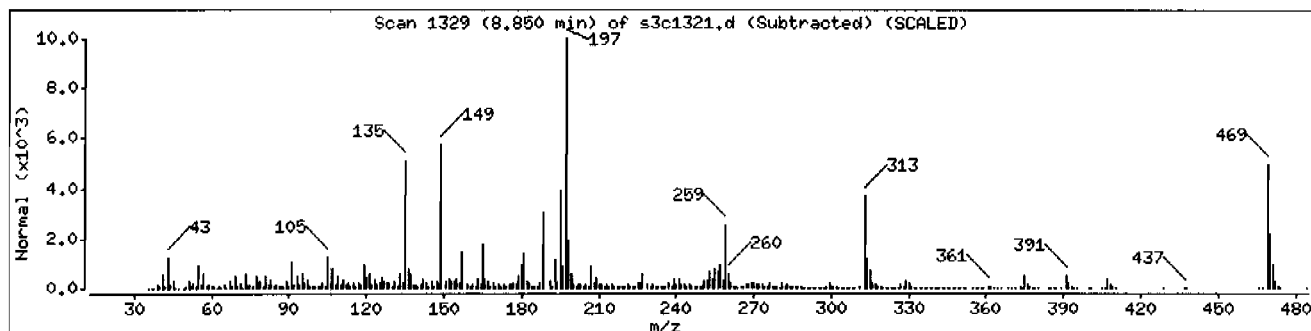
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
p,p'-Ditolylamine	620-93-9	NIST05.L	55093	35	C14H15N	197
1,1-Diphenyl-1-methoxyethane	40743-08-6	NIST05.L	66029	16	C15H16O	212
4-(4-Methyl-2,4-diphenyl-2-pentyl)phenol	52379-26-7	NIST05.L	142639	14	C24H26O	330



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: MSD3.i

Sample Info: 12481970081960459121SVMF111LANL

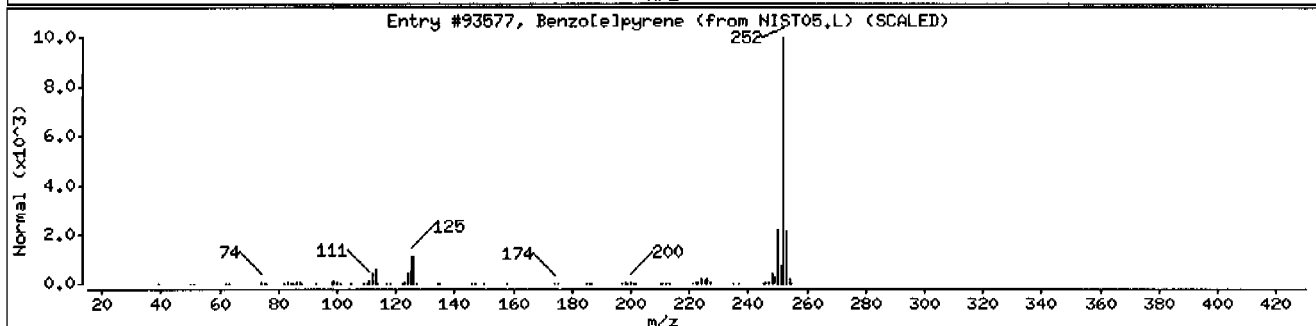
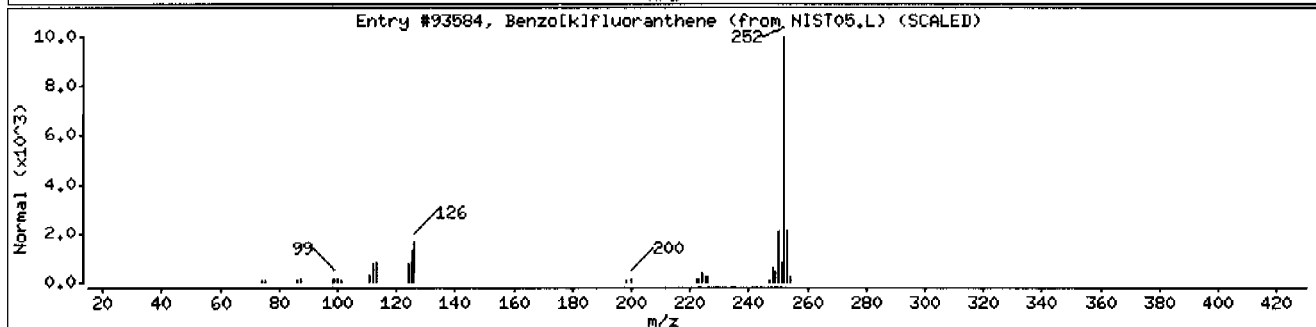
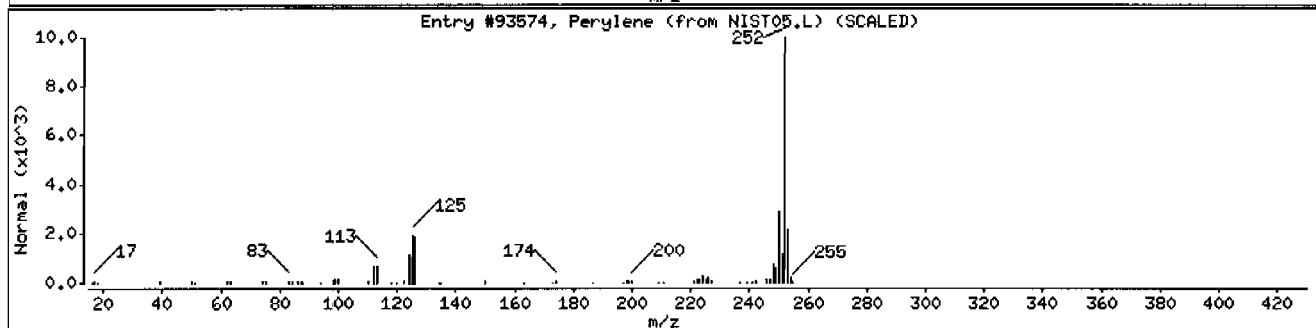
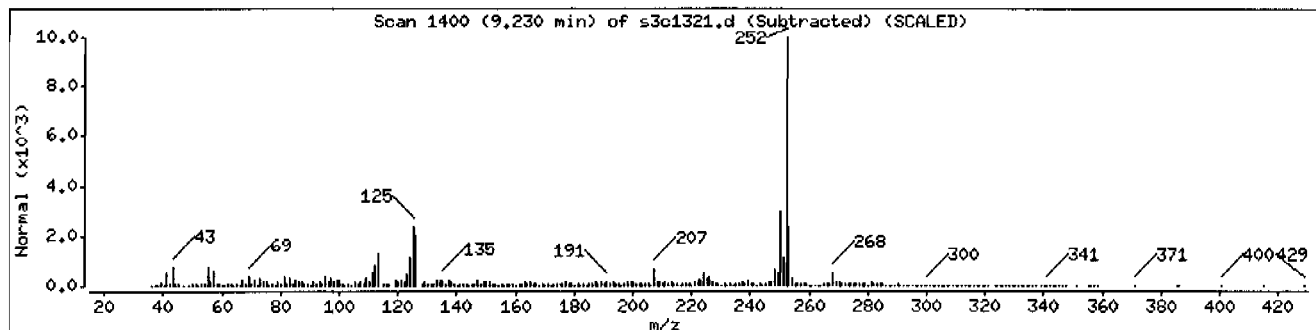
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Perylene	198-55-0	NIST05.L	93574	99	C20H12	252
Benzo[k]fluoranthene	207-08-9	NIST05.L	93584	98	C20H12	252
Benzo[e]pyrene	192-97-2	NIST05.L	93577	98	C20H12	252



Date : 13-MAR-2010 17:34

Client ID: RE36-10-7432

Instrument: HSD3.i

Sample Info: 12481970081960459121SVHF111LANL

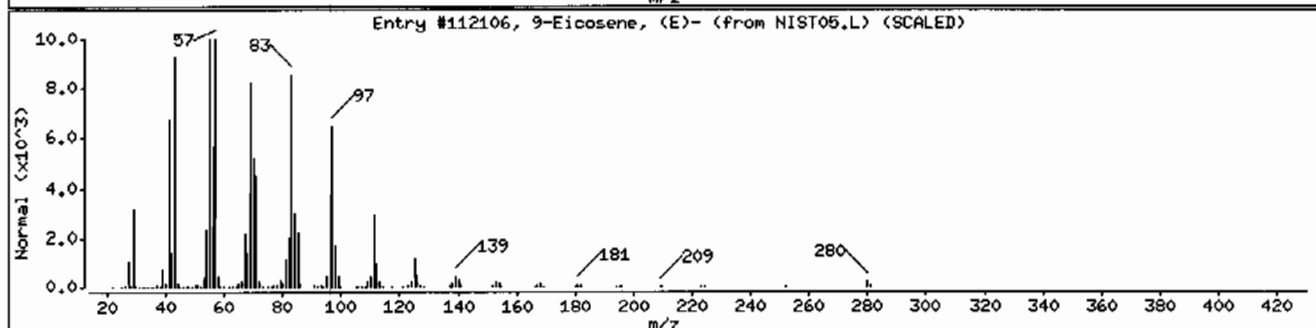
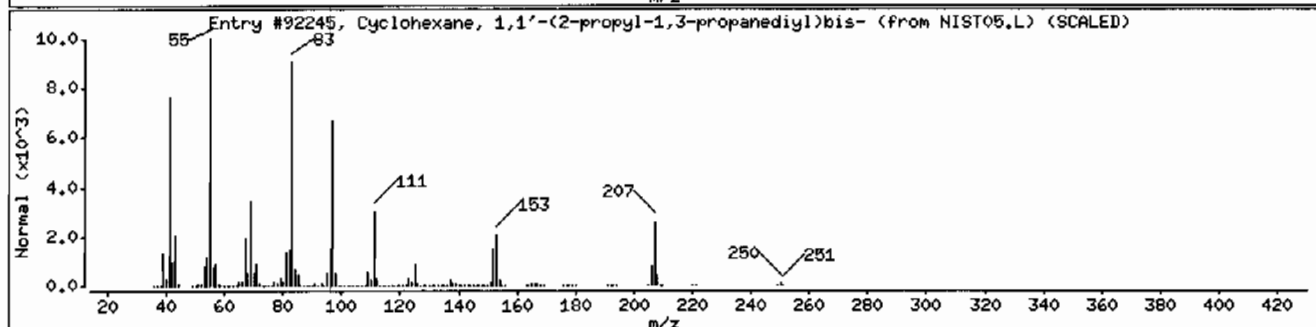
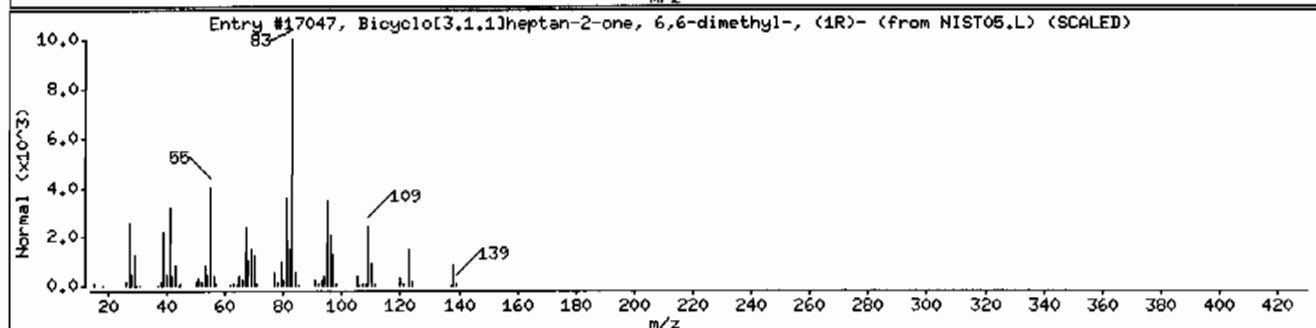
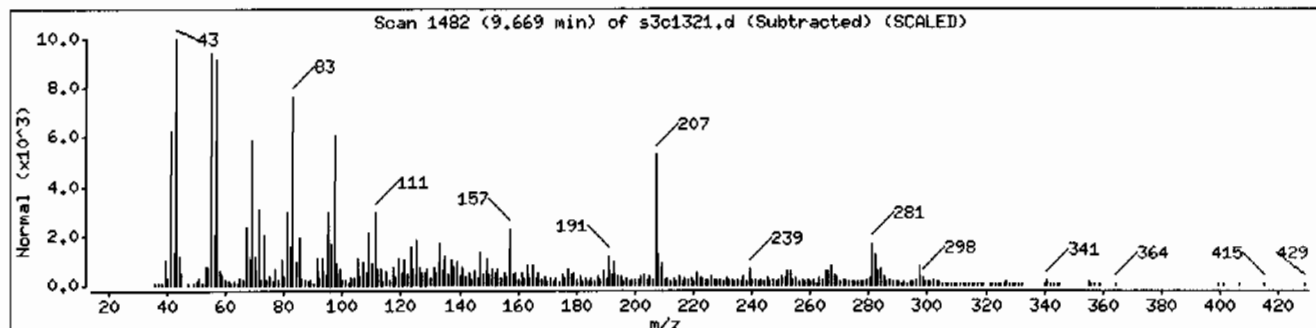
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl	38651-65-9	NIST05.L	17047	89	C9H14O	138
Cyclohexane, 1,1'-(2-propyl-1,3-propanediyl)bis-	55030-21-2	NIST05.L	92245	89	C18H34	250
9-Eicosene, (E)-	74685-29-3	NIST05.L	112106	64	C20H40	280



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197013	Date Received: 02/26/2010 08:45	%Moisture: 28.6
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7433	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 18:32	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.2 g	Final Volume: 1 mL
Data File: s3c1324.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	928	ug/kg	186	928
108-95-2	Phenol	U	928	ug/kg	186	928
95-57-8	2-Chlorophenol	U	928	ug/kg	186	928
106-46-7	1,4-Dichlorobenzene	U	928	ug/kg	186	928
621-64-7	N-Nitrosodipropylamine	U	928	ug/kg	186	928
59-50-7	4-Chloro-3-methylphenol	U	928	ug/kg	186	928
83-32-9	Acenaphthene	J	61.3	ug/kg	30.6	92.8
121-14-2	2,4-Dinitrotoluene	U	928	ug/kg	92.8	928
100-02-7	4-Nitrophenol	U	928	ug/kg	306	928
87-86-5	Pentachlorophenol	U	928	ug/kg	232	928
129-00-0	Pyrene		737	ug/kg	27.8	92.8
110-86-1	Pyridine	U	928	ug/kg	186	928
62-53-3	Aniline	U	928	ug/kg	278	928
111-44-4	bis(2-Chloroethyl) ether	U	928	ug/kg	186	928
541-73-1	1,3-Dichlorobenzene	U	928	ug/kg	186	928
100-51-6	Benzyl alcohol	U	928	ug/kg	278	928
95-50-1	1,2-Dichlorobenzene	U	928	ug/kg	186	928
108-60-1	bis(2-Chloroisopropyl)ether	U	928	ug/kg	186	928
95-48-7	o-Cresol	U	928	ug/kg	186	928
65794-96-9	m,p-Cresols	U	928	ug/kg	278	928
67-72-1	Hexachloroethane	U	928	ug/kg	186	928
98-95-3	Nitrobenzene	U	928	ug/kg	186	928
78-59-1	Isophorone	U	928	ug/kg	186	928
88-75-5	2-Nitrophenol	U	928	ug/kg	186	928
105-67-9	2,4-Dimethylphenol	U	928	ug/kg	325	928
111-91-1	bis(2-Chloroethoxy)methane	U	928	ug/kg	186	928
120-83-2	2,4-Dichlorophenol	U	928	ug/kg	186	928
65-85-0	Benzoic acid	J	1560	ug/kg	464	1860
91-20-3	Naphthalene	U	92.8	ug/kg	27.8	92.8
106-47-8	4-Chloroaniline	U	928	ug/kg	186	928
87-68-3	Hexachlorobutadiene	U	928	ug/kg	186	928
91-57-6	2-Methylnaphthalene	U	92.8	ug/kg	18.6	92.8
77-47-4	Hexachlorocyclopentadiene	U	928	ug/kg	186	928
88-06-2	2,4,6-Trichlorophenol	U	928	ug/kg	186	928
95-95-4	2,4,5-Trichlorophenol	U	928	ug/kg	186	928
91-58-7	2-Chloronaphthalene	U	92.8	ug/kg	30.6	92.8
88-74-4	2-Nitroaniline	U	928	ug/kg	186	928
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	928	ug/kg	186	928

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

SDG Number: 10-2121
Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.2 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 28.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7433
Batch ID: 960459
Run Date: 03/13/2010 18:32
Prep Date: 03/03/2010 23:09
Data File: s3c1324.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	928	ug/kg	186	928
606-20-2	2,6-Dinitrotoluene	U	928	ug/kg	92.8	928
208-96-8	Acenaphthylene	U	92.8	ug/kg	27.8	92.8
51-28-5	2,4-Dinitrophenol	U	1860	ug/kg	353	1860
132-64-9	Dibenzofuran	U	928	ug/kg	186	928
84-66-2	Diethylphthalate	U	928	ug/kg	186	928
86-73-7	Fluorene	J	50.7	ug/kg	27.8	92.8
7005-72-3	4-Chlorophenylphenylether	U	928	ug/kg	186	928
534-52-1	2-Methyl-4,6-dinitrophenol	U	928	ug/kg	186	928
100-01-6	4-Nitroaniline	U	928	ug/kg	278	928
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	928	ug/kg	186	928
122-66-7	Azobenzene	U	928	ug/kg	186	928
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	928	ug/kg	186	928
118-74-1	Hexachlorobenzene	U	928	ug/kg	186	928
85-01-8	Phenanthrene		522	ug/kg	27.8	92.8
120-12-7	Anthracene	J	88.9	ug/kg	18.6	92.8
84-74-2	Di-n-butylphthalate	J	403	ug/kg	186	928
206-44-0	Fluoranthene		617	ug/kg	27.8	92.8
85-68-7	Butylbenzylphthalate	U	928	ug/kg	186	928
56-55-3	Benzo(a)anthracene		297	ug/kg	27.8	92.8
91-94-1	3,3'-Dichlorobenzidine	U	928	ug/kg	278	928
218-01-9	Chrysene		290	ug/kg	27.8	92.8
117-81-7	bis(2-Ethylhexyl)phthalate	U	928	ug/kg	186	928
117-84-0	Di-n-octylphthalate	U	928	ug/kg	186	928
205-99-2	Benzo(b)fluoranthene		517	ug/kg	27.8	92.8
207-08-9	Benzo(k)fluoranthene	U	92.8	ug/kg	27.8	92.8
50-32-8	Benzo(a)pyrene		263	ug/kg	27.8	92.8
193-39-5	Indeno(1,2,3-cd)pyrene		130	ug/kg	27.8	92.8
53-70-3	Dibenzo(a,h)anthracene	U	92.8	ug/kg	27.8	92.8
191-24-2	Benzo(ghi)perylene		134	ug/kg	27.8	92.8
120-82-1	1,2,4-Trichlorobenzene	U	928	ug/kg	186	928

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.77	5940	ug/kg		J
559-74-0	Friedelan-3-one	7.13	5580	ug/kg	87	NJ

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

SDG Number: 10-2121
Lab Sample ID: 248197013

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.2 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 28.6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
---------	----------	-----------	--------	-------	---------	---------

Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
	Unknown	7.17	2080	ug/kg		J
	Unknown	7.19	2580	ug/kg		J
	Unknown	7.41	444	ug/kg		J
25269-17-4	Thunbergol	7.62	813	ug/kg	91	NJ
1235-74-1	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	7.8	1100	ug/kg	94	NJ
661-19-8	1-Docosanol	8.01	1810	ug/kg	94	NJ
	Unknown	8.28	607	ug/kg		J
661-19-8	1-Docosanol	8.43	3040	ug/kg	99	NJ
112-95-8	Eicosane	8.65	544	ug/kg	93	J
75581-03-2	2,6,10,14,18-Pentamethyl-2,6,10,14,18-ei	8.72	1180	ug/kg	90	J
	Unknown	8.78	1350	ug/kg		J
	Unknown	8.93	2790	ug/kg		J
	Unknown	9	2560	ug/kg		J
	Unknown	9.42	1540	ug/kg		J
	Unknown	9.6	1920	ug/kg		J
	Unknown	9.67	2510	ug/kg		J
7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	10.04	992	ug/kg	91	NJ
	Unknown	10.45	1130	ug/kg		J
	Unknown	10.71	1320	ug/kg		J
83-47-6	.gamma.-Sitosterol	11.07	2510	ug/kg	96	NJ
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	11.5	1310	ug/kg	83	NJ
1058-61-3	Stigmast-4-en-3-one	11.97	985	ug/kg	84	NJ

Data File: /chem/MSD3.i/s031310.b/s3c1324.d
Report Date: 14-Mar-2010 16:38

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1324.d
Lab Smp Id: 248197013 Client Smp ID: RE36-10-7433
Inj Date : 13-MAR-2010 18:32
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197013|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 24
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.20000	weight of sample
M	28.61360	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473	(1.000)	624949	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2365709	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570	(1.000)	1249203	40.0000	
* 67 Phenanthrene-d10	188	6.594	6.592	(1.000)	2027757	40.0000	
* 91 Chrysene-d12	240	8.166	8.169	(1.000)	993817	40.0000	
* 98 Perylene-d12	264	9.332	9.330	(1.000)	491213	40.0000	
\$ 3 2-Fluorophenol	112	2.694	2.682	(0.775)	545237	38.8221	3600
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	629008	38.1217	3540
\$ 20 Nitrobenzene-d5	82	3.834	3.837	(0.886)	277159	20.5798	1910
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	631466	19.8684	1840
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126	(1.101)	114350	39.9233	3700
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	455574	29.5739	2740

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
47 Acenaphthene	154	5.588	5.591	(1.004)	20326	0.66085	61.3(a)
79 Pyrene	202	7.465	7.463	(0.914)	228568	7.94277	737
27 Benzoic acid	105	4.106	4.120	(0.949)	6731	16.8360	1560(a)
53 Fluorene	166	5.957	5.960	(1.070)	18434	0.54605	50.6(a)
68 Phenanthrene	178	6.604	6.608	(1.002)	258287	5.62309	522
69 Anthracene	178	6.636	6.640	(1.006)	43118	0.95876	88.9(a)
72 Di-n-butylphthalate	149	6.909	6.912	(1.048)	225483	4.33978	403(a)
76 Fluoranthene	202	7.326	7.324	(1.111)	276612	6.64837	617
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	73906	3.20216	297
92 Chrysene	228	8.182	8.185	(1.002)	73679	3.12216	290
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	69451	5.57025	517(Q)
97 Benzo(a)pyrene	252	9.279	9.277	(0.994)	30324	2.83114	263
99 Indeno(1,2,3-cd)pyrene	276	10.600	10.603	(1.136)	12911	1.39799	130
101 Benzo(ghi)perylene	276	10.995	10.993	(1.178)	10919	1.43918	134

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1324.d

Report Date: 03/14/2010 14:34

Lab. ID: 248197013

SampleType: SAMPLE

Injection Date: 13-MAR-2010 18:32

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197013|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
1 N-Methyl-N-nitrosomethylamine				CAS#: 62-75-9		
74	45684	1.79	2.00	80-120	100	(T)
42	14831	1.77	2.00	118-178	32	(QT)
43	97301	1.77	2.00	34- 94	213	(QT)

4 Aniline				CAS#: 62-53-3		
66	35777	3.21	3.26	80-120	100	()
93	6560	3.25	3.26	200-260	18	(Q)

17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	41792	3.83	3.72	80-120	100	(T)
42	35206	3.83	3.72	76-136	84	(T)

22 Isophorone				CAS#: 78-59-1		
82	284815	3.83	4.00	80-120	100	(T)
138	303	3.77	4.00	0- 55	0	(T)

27 Benzoic acid				CAS#: 65-85-0		
105	6731	4.11	4.12	80-120	100	()
122	5939	4.10	4.12	55-115	88	()
77	4090	4.10	4.12	29- 89	61	()

43 Dimethylphthalate				CAS#: 131-11-3		
163	229410	5.57	5.35	80-120	100	(T)
164	1252656	5.57	5.35	0- 40	546	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
44 2,6-Dinitrotoluene CAS#: 606-20-2						
165	164403	5.57	5.40	80-120	100	(T)
63	1937	5.57	5.40	49-109	1	(QT)

47 Acenaphthene CAS#: 83-32-9						
154	20326	5.59	5.59	80-120	100	()
153	16326	5.59	5.59	71-131	80	()
152	7681	5.59	5.59	18- 78	38	()

50 2,4-Dinitrotoluene CAS#: 121-14-2						
165	164403	5.57	5.69	80-120	100	(T)
89	2658	5.57	5.69	48-108	2	(QT)
63	1937	5.57	5.69	21- 81	1	(QT)

52 4-Nitrophenol CAS#: 100-02-7						
139	237	5.64	5.63	80-120	100	()
109	3475	5.57	5.63	39- 99	1463	(QT)
65	189	5.63	5.63	60-120	80	()

53 Fluorene CAS#: 86-73-7						
166	18434	5.96	5.96	80-120	100	()
165	16641	5.96	5.96	62-122	90	()
167	2810	5.96	5.96	0- 44	15	()

55 2-Methyl-4,6-dinitrophenol CAS#: 534-52-1						
198	628	6.12	5.98	80-120	100	(T)
105	1495	6.12	5.98	14- 74	238	(QT)
51	1383	6.12	5.98	40-100	220	(QT)

56 p-Nitroaniline CAS#: 100-01-6						
138	555	5.96	5.97	80-120	100	()
108	239	5.98	5.97	35- 95	43	()
92	234	5.84	5.97	5- 65	42	(T)

68 Phenanthrene CAS#: 85-01-8						
178	258287	6.60	6.61	80-120	100	()
179	43393	6.60	6.61	0- 46	17	()
176	49180	6.60	6.61	0- 49	19	()

69 Anthracene CAS#: 120-12-7						
178	43118	6.64	6.64	80-120	100	()
179	8534	6.64	6.64	0- 46	20	()
176	7173	6.64	6.64	0- 49	17	()

72 Di-n-butylphthalate CAS#: 84-74-2						
149	225483	6.91	6.91	80-120	100	()
150	22140	6.91	6.91	0- 39	10	()
104	11352	6.91	6.91	0- 35	5	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
76 Fluoranthene		CAS#: 206-44-0				
202	276612	7.33	7.32	80-120	100	()
203	46299	7.33	7.32	0- 47	17	()
101	35711	7.33	7.32	0- 43	13	()

79 Pyrene		CAS#: 129-00-0				
202	228568	7.47	7.46	80-120	100	()
200	47557	7.47	7.46	0- 51	21	()
101	37284	7.46	7.46	0- 46	16	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	73906	8.16	8.16	80-120	100	()
226	20194	8.16	8.16	0- 57	27	()
229	19540	8.16	8.16	0- 50	26	()

92 Chrysene		CAS#: 218-01-9				
228	73679	8.18	8.19	80-120	100	()
229	16907	8.18	8.19	0- 50	23	()
226	21955	8.18	8.19	0- 59	30	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	69451	8.97	8.97	80-120	100	()
253	15278	8.97	8.97	0- 52	22	()
125	32435	8.97	8.96	0- 44	47	(Q)

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	69451	8.97	8.99	80-120	100	()
253	15723	8.97	8.99	0- 52	23	()
125	33809	8.97	8.99	0- 48	49	(Q)

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	30324	9.28	9.28	80-120	100	()
253	7247	9.28	9.28	0- 52	24	()
125	10229	9.28	9.28	0- 48	34	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	12911	10.60	10.60	80-120	100	()
138	4466	10.60	10.60	14- 74	35	()

100 Dibenzo(a,h)anthracene		CAS#: 53-70-3				
278	3802	10.61	10.61	80-120	100	()
139	1659	10.61	10.60	0- 60	44	()

101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	10919	11.00	10.99	80-120	100	()
138	3894	11.00	10.99	9- 69	36	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1324.d
 Lab Smp Id: 248197013 Client Smp ID: RE36-10-7433
 Inj Date : 13-MAR-2010 18:32
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |248197013|960459|2|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 24
 Dil Factor: 2.00000
 Integrator: HP RTE Compound Sublist: 10-2121.sub
 Target Version: 3.50
 Processing Host: hpclp1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.20000	weight of sample
M	28.61360	% moisture

Cpnd Variable

Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.475	3784595	40.000
* 67 Phenanthrene-d10	6.594	5892960	40.000
* 91 Chrysene-d12	8.166	4618057	40.000
* 98 Perylene-d12	9.332	2115079	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					CAS #:		
2.769	6059953	64.0486233	5940	0		0	10
Friedelan-3-one					CAS #: 559-74-0		
7.128	8866119	60.1810812	5580	87	NIST05.L	176566	67
Unknown					CAS #:		
7.171	3310296	22.4694927	2080	0		0	67
Unknown					CAS #:		
7.187	4090669	27.7664786	2580	0		0	67
Unknown					CAS #:		
7.412	552989	4.78979665	444	0		0	91
Thunbergol					CAS #: 25269-17-4		
7.615	1011755	8.76346745	813	91	NIST05.L	118732	91
1-Phenanthrenecarboxylic acid, 1,2,3,4,4					CAS #: 1235-74-1		
7.802	1373699	11.8985030	1100	94	NIST05.L	133618	91
1-Docosanol					CAS #: 661-19-8		
8.006	2253538	19.5193543	1810	94	NIST05.L	140378	91
Unknown					CAS #:		
8.284	754870	6.53841762	606	0		0	91
1-Docosanol					CAS #: 661-19-8		
8.433	3788040	32.8106774	3040	99	NIST05.L	140378	91
Eicosane					CAS #: 112-95-8		
8.653	677513	5.86837983	544	93	NIST05.L	113492	91 (L)
2,6,10,14,18-Pentamethyl-2,6,10,14,18-ei					CAS #: 75581-03-2		
8.722	1472645	12.7555390	1180	90	NIST05.L	149004	91 (L)
Unknown					CAS #:		
8.776	769020	14.5435762	1350	0		0	98
Unknown					CAS #:		
8.926	1590004	30.0698756	2790	0		0	98
Unknown					CAS #:		
8.995	1458638	27.5855050	2560	0		0	98

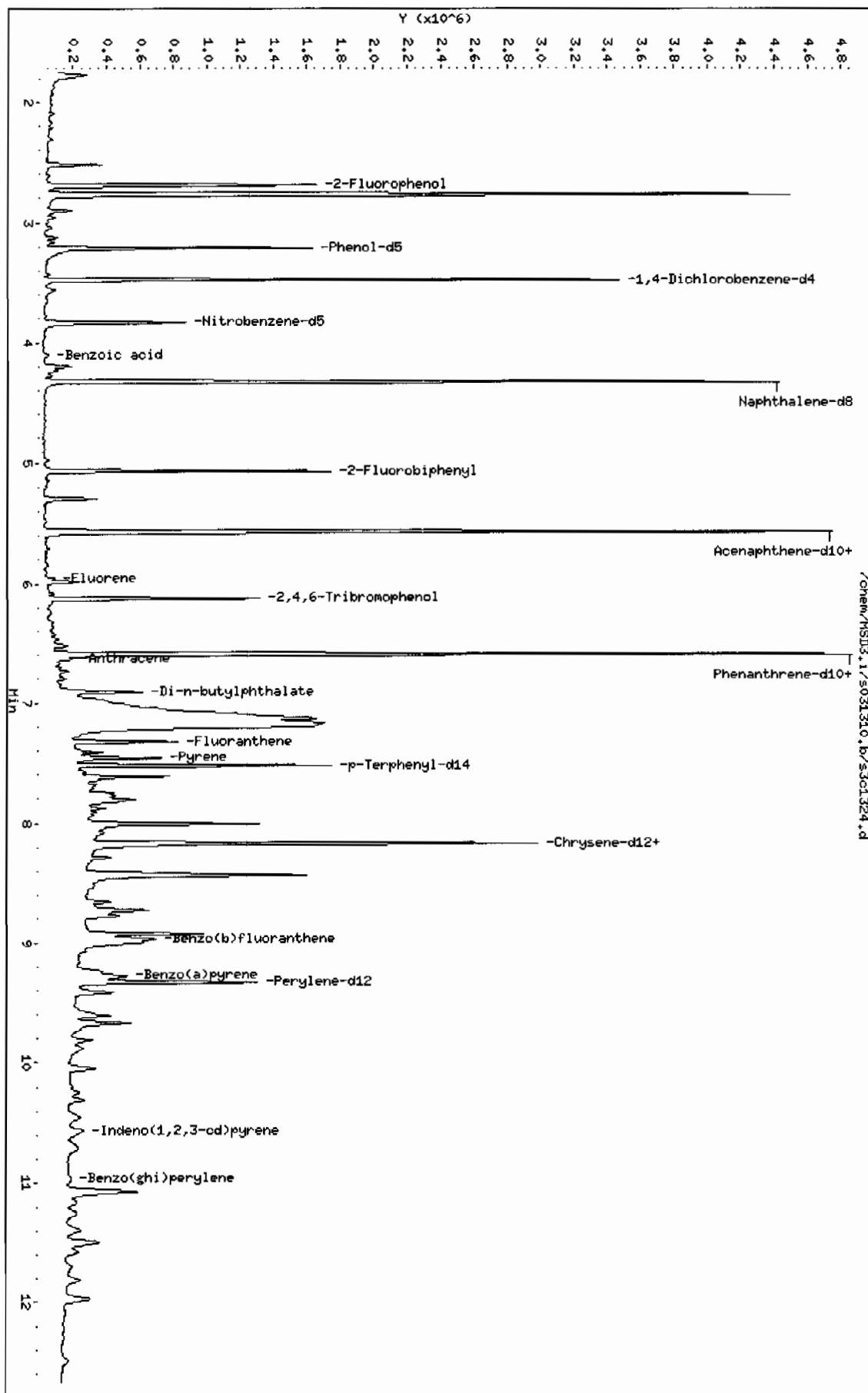
RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
9.418	877987	16.6043337	1540	0		0	98
Unknown				CAS #:			
9.605	1091563	20.6434333	1920	0		0	98
Unknown				CAS #:			
9.669	1431641	27.0749290	2510	0		0	98
26-Nor-5-cholesten-3.beta.-ol-25-one				CAS #: 7494-34-0			
10.043	565680	10.6980439	992	91	NIST05.L	167261	98
Unknown				CAS #:			
10.450	645758	12.2124498	1130	0		0	98
Unknown				CAS #:			
10.707	752416	14.2295465	1320	0		0	98
.gamma.-Sitosterol				CAS #: 83-47-6			
11.070	1430561	27.0545086	2510	96	NIST05.L	174402	98
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd				CAS #: 1000188-66-5			
11.498	747416	14.1349961	1310	83	NIST05.L	69976	98
Stigmast-4-en-3-one				CAS #: 1058-61-3			
11.974	561385	10.6168184	985	84	NIST05.L	173936	98

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/HSD3.i/s031310.b/s031324.d
 Date: 13-Mar-2010 18:32
 Client ID: RE36-10-7433
 Sample Info: 12481970131960459121SVHF11L1ANL
 Volume Injected (uL): 0.5
 Column phase: J&M DB-5MS

Instrument: HSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF111LANL

Volume Injected (uL): 0.5

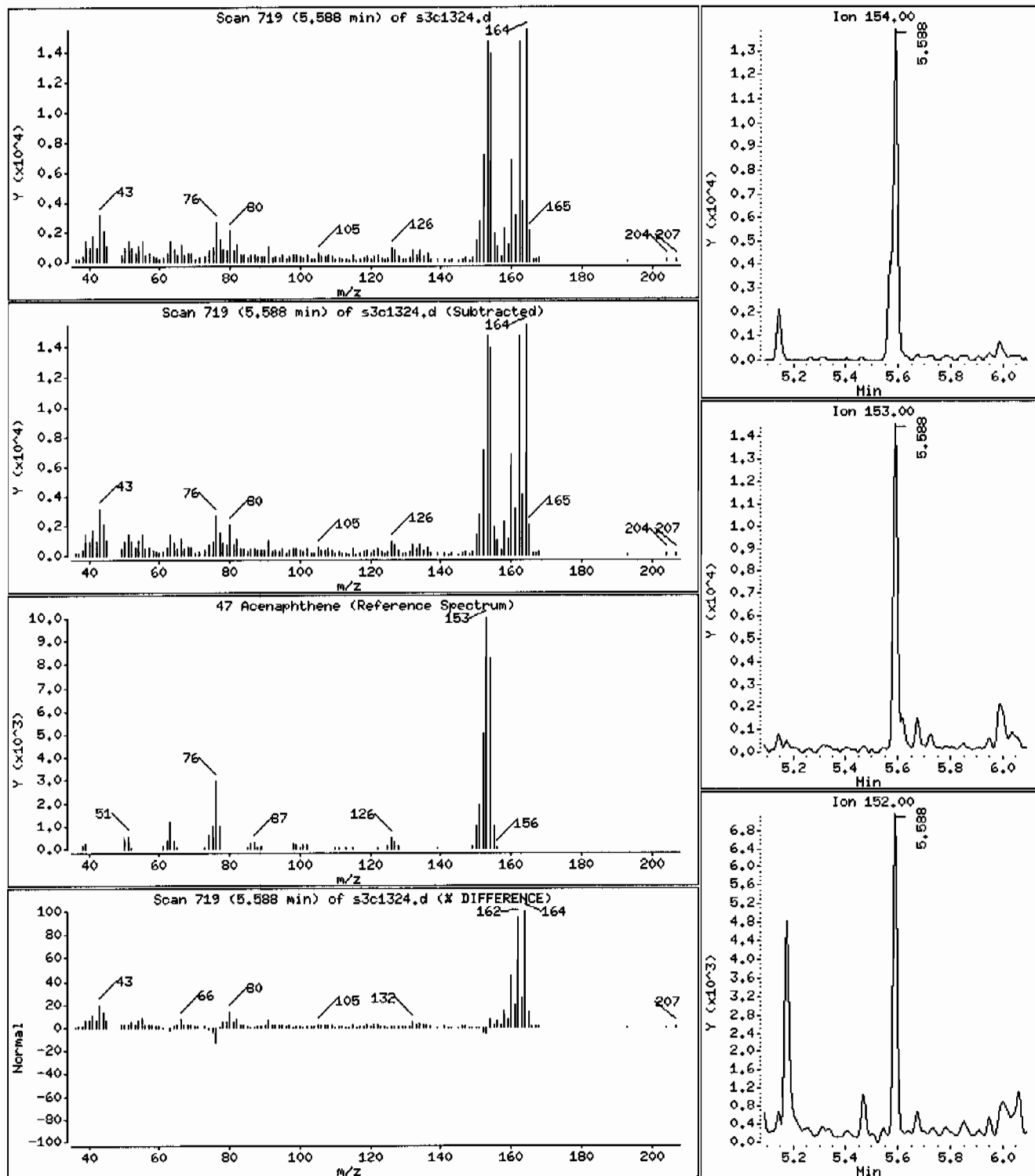
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

47 Acenaphthene

Concentration: 61.3 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

Volume Injected (uL): 0.5

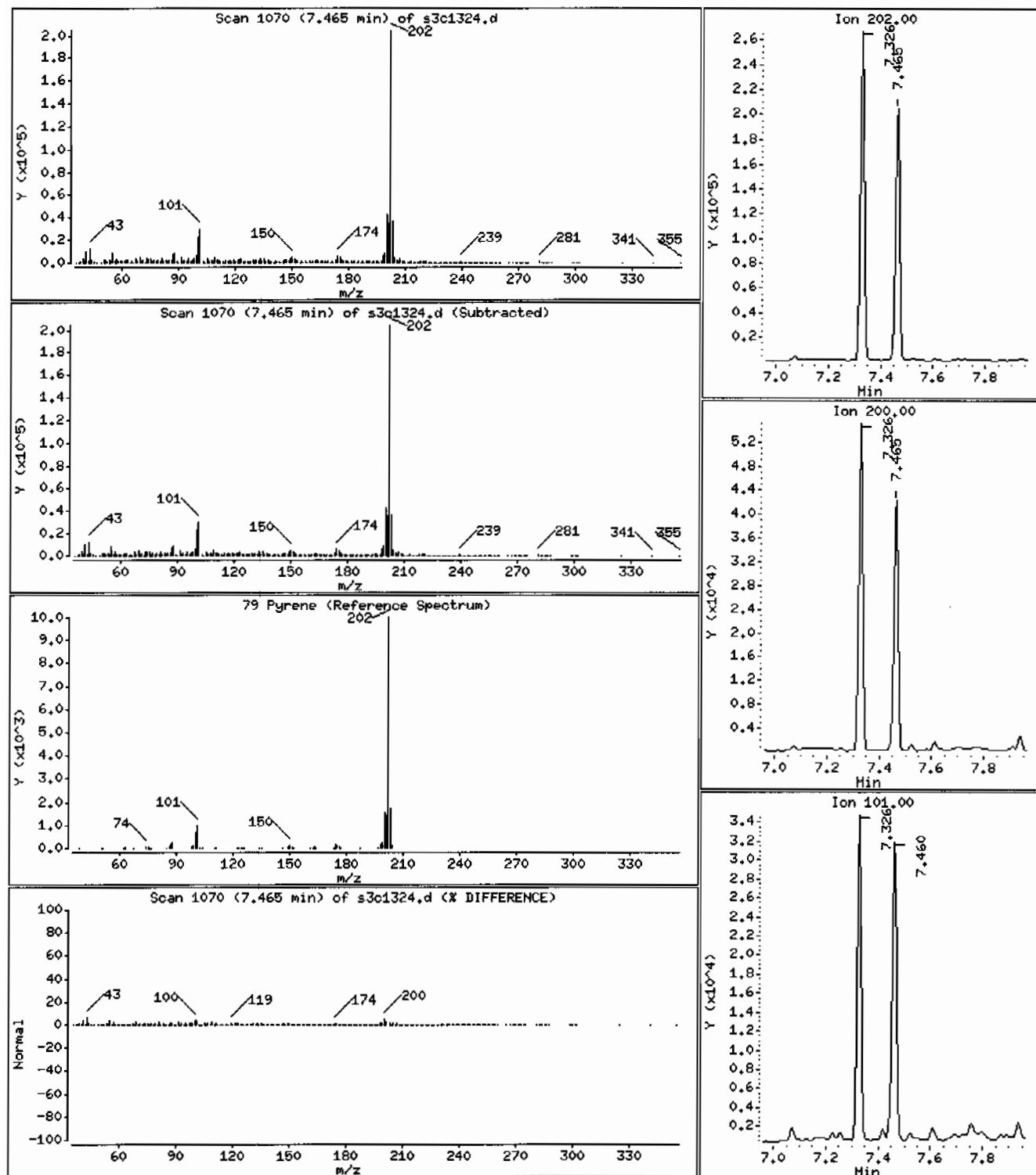
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 737 ug/Kg

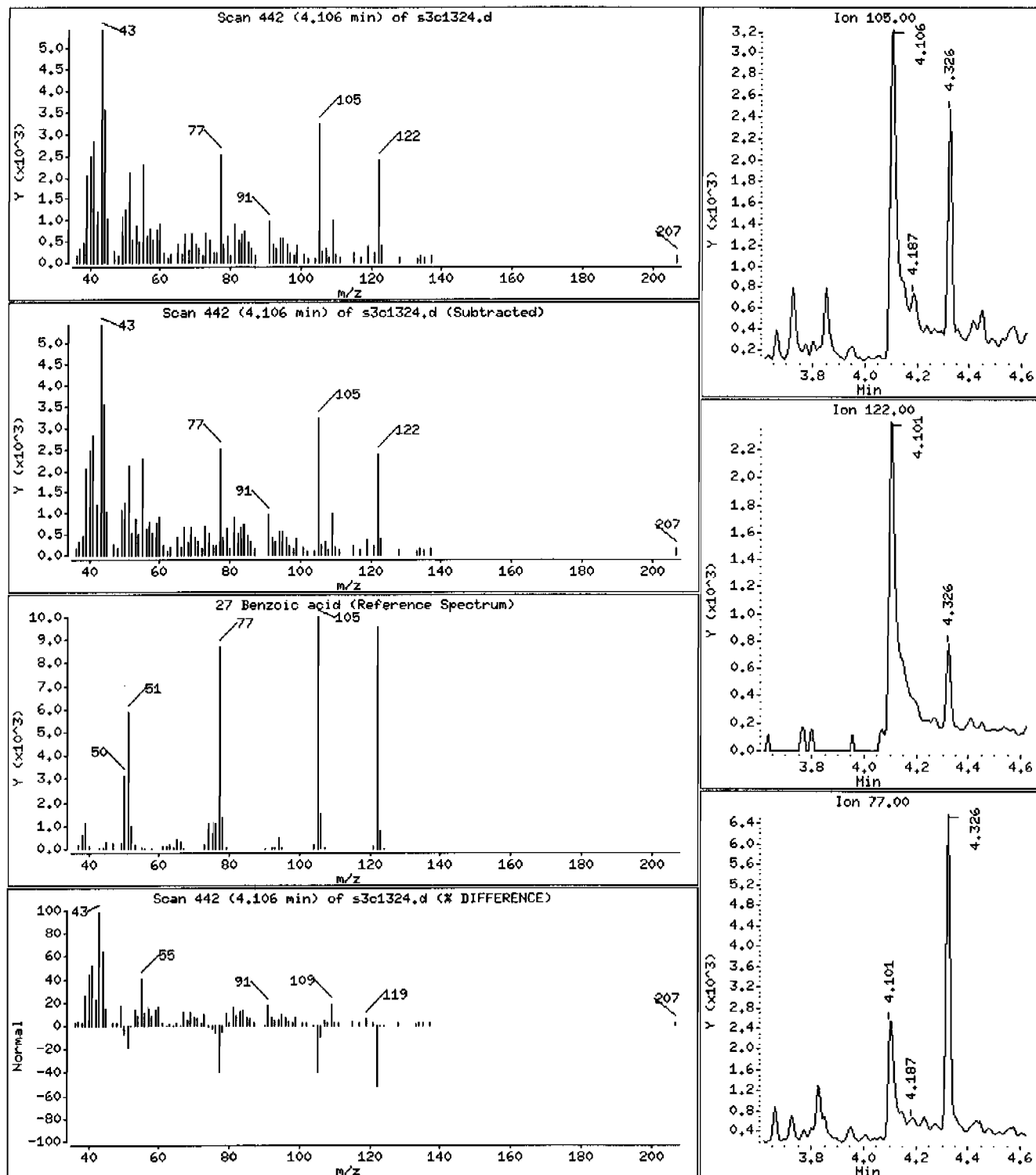


Instrument: MSD3.i

Operator: JLD1

Column diameter: 0.20

Concentration: 1560 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: I248197013196045912ISVMF11ILANL

Volume Injected (uL): 0.5

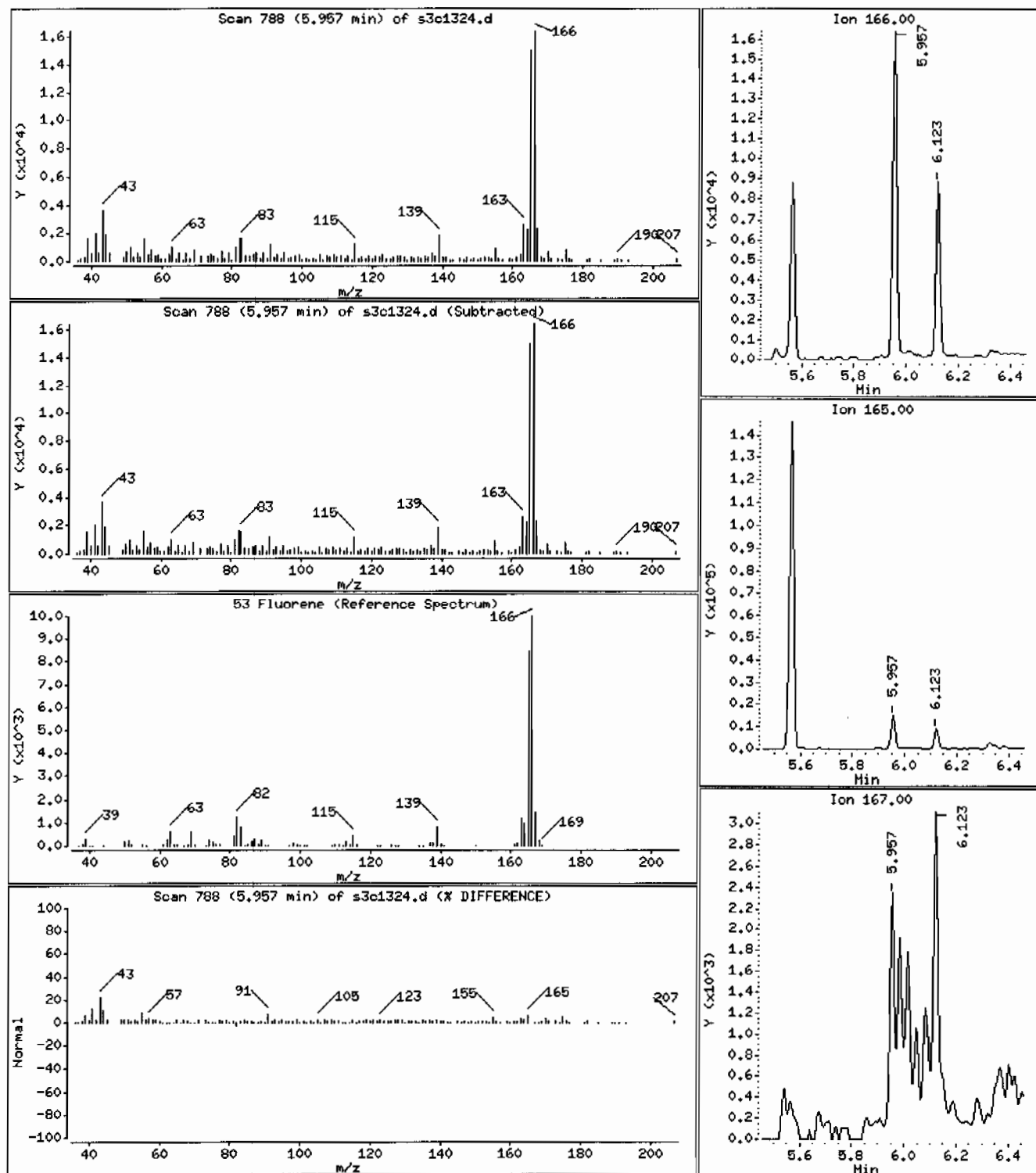
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

53 Fluorene

Concentration: 50.6 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

Volume Injected (uL): 0.5

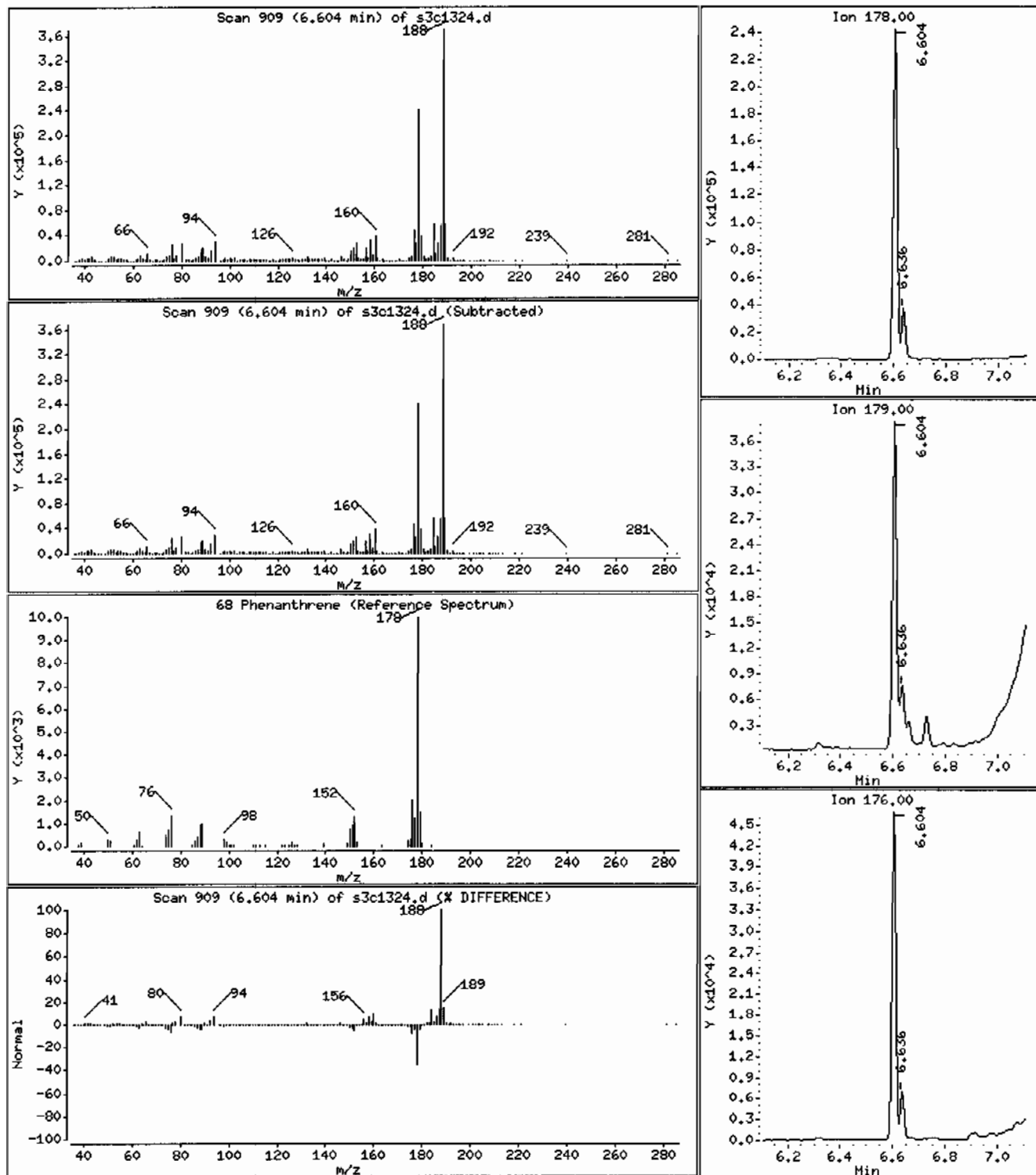
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 522 ug/Kg



Data File: /chem/MSD3.i/s031310.b/s3c1324.d

Page 7

Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

Volume Injected (uL): 0.5

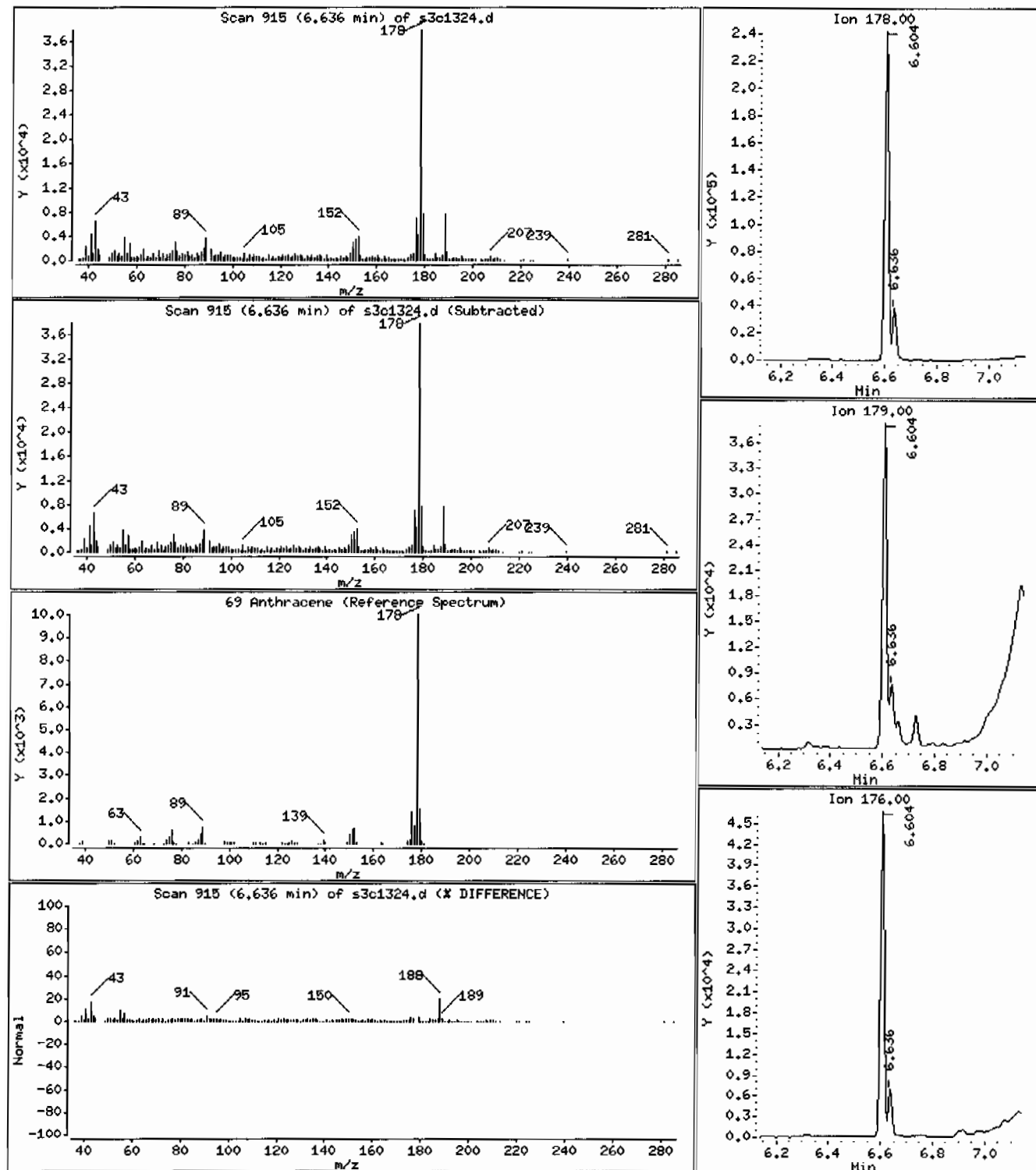
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

69 Anthracene

Concentration: 88.9 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 1248197013196045912ISVMF11ILANL

Volume Injected (uL): 0.5

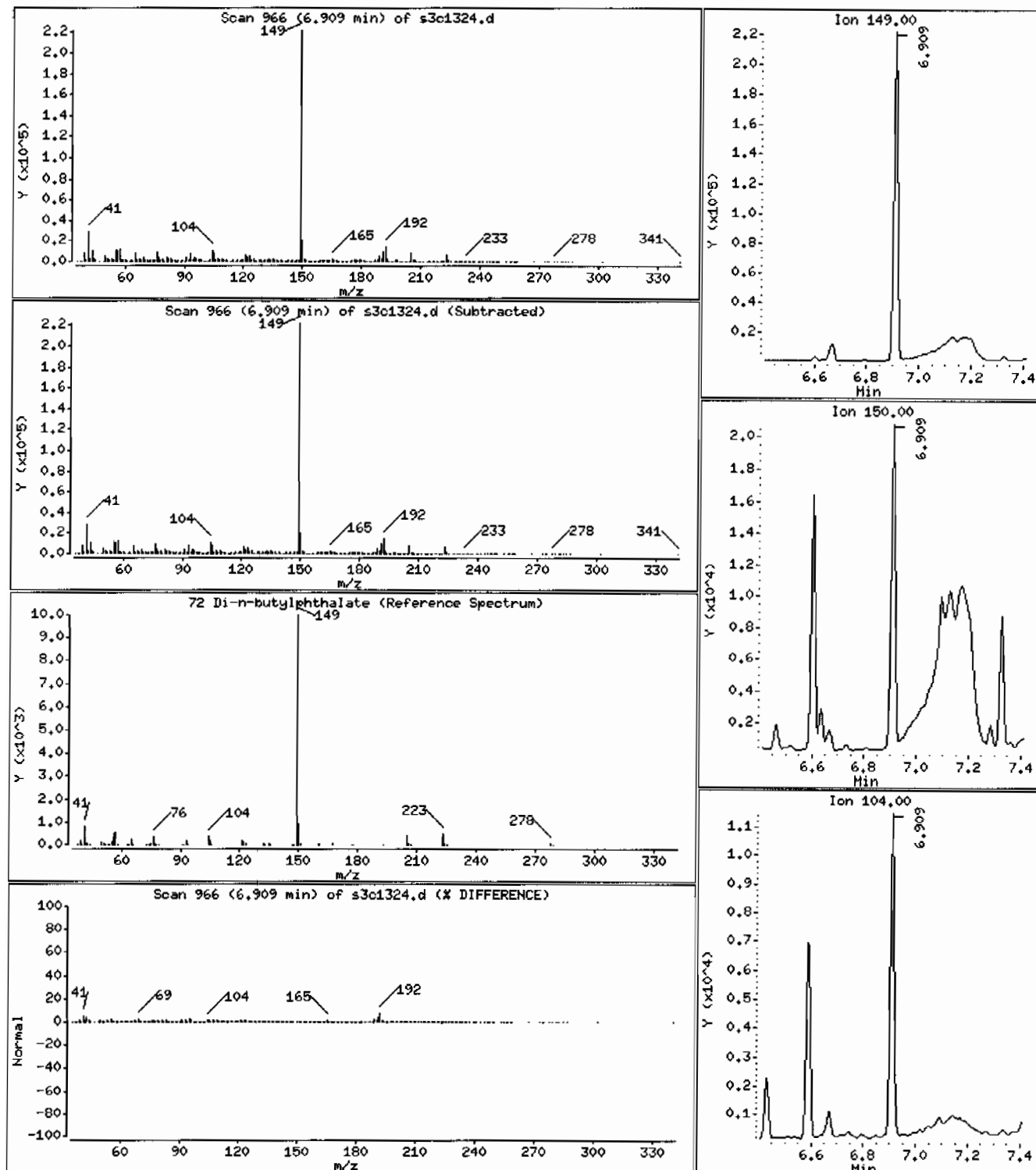
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

72 Di-n-butylphthalate

Concentration: 403 ug/Kg



Data File: /chem/MSD3.i/s031310.b/s3c1324.d

Page 9

Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

Volume Injected (uL): 0.5

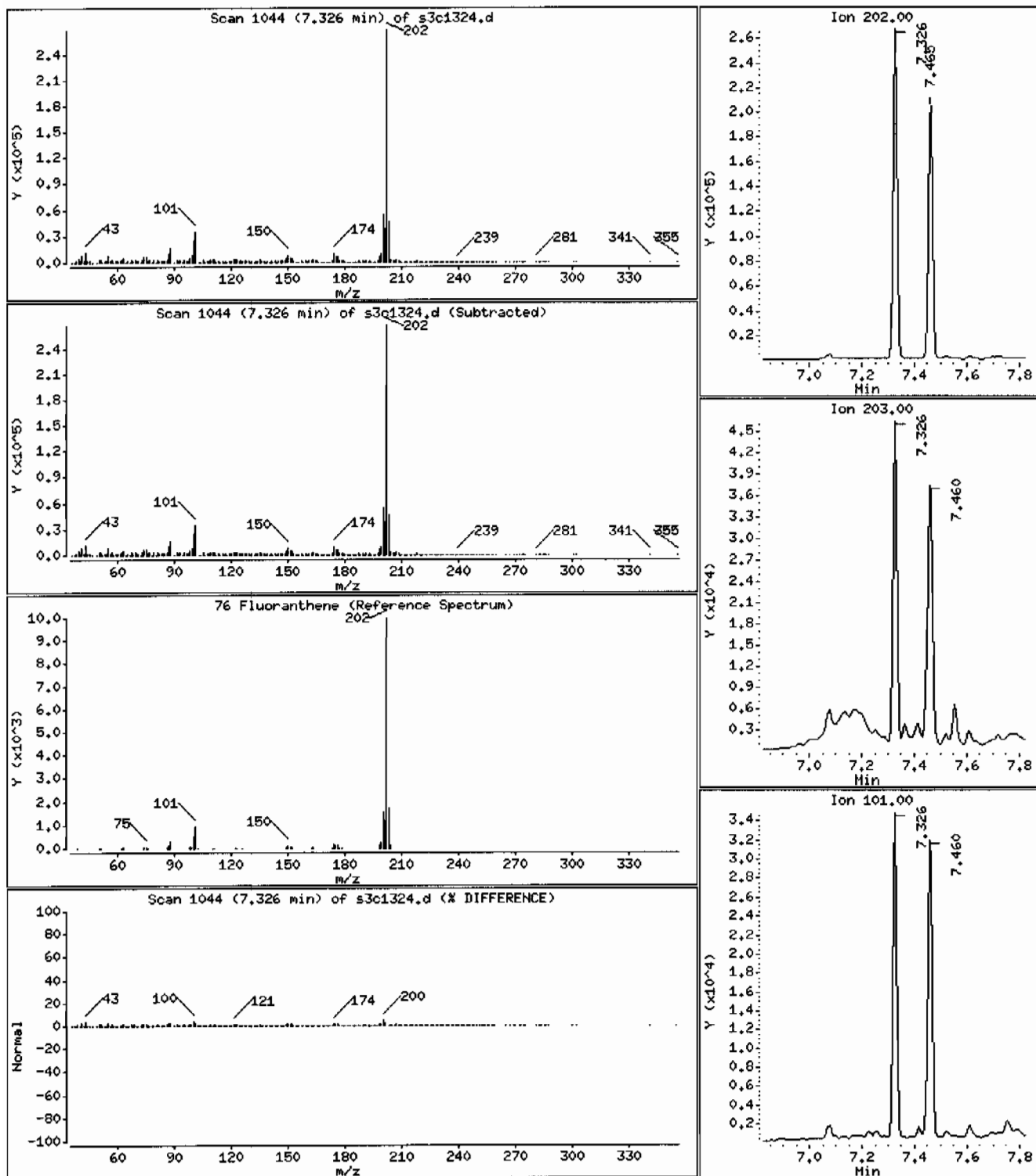
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 617 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

Volume Injected (uL): 0.5

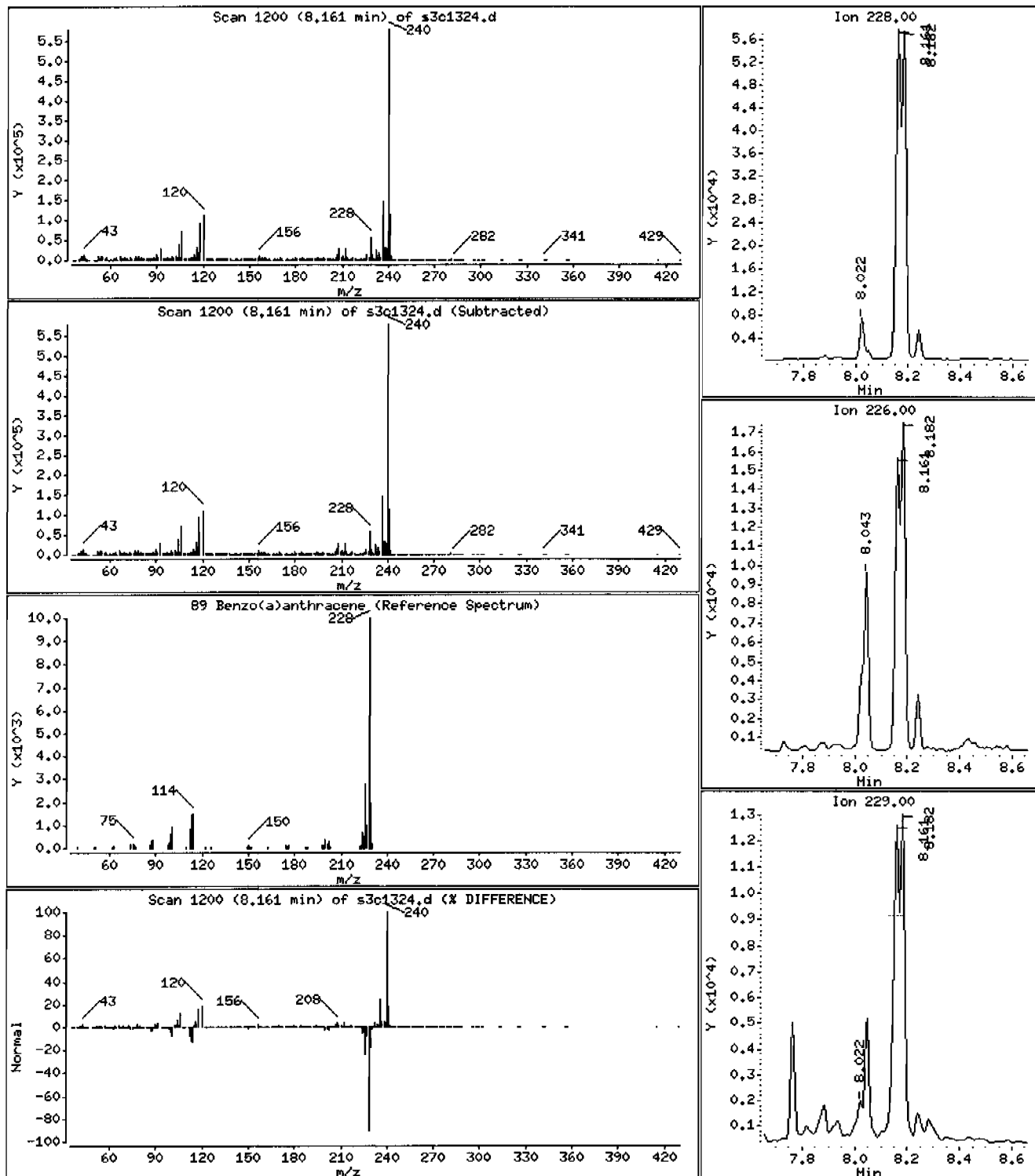
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 297 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

Volume Injected (uL): 0.5

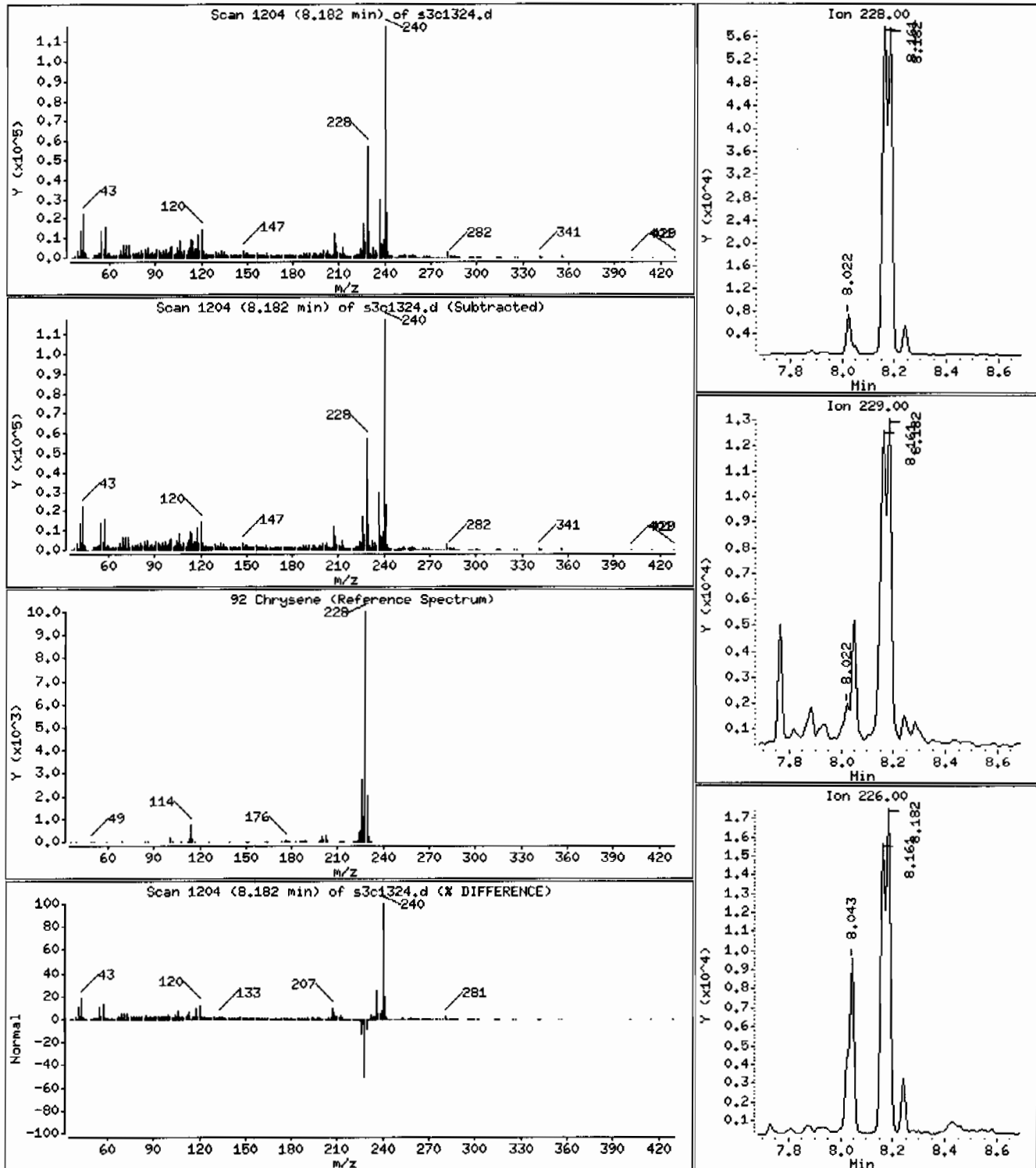
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 290 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

Volume Injected (uL): 0.5

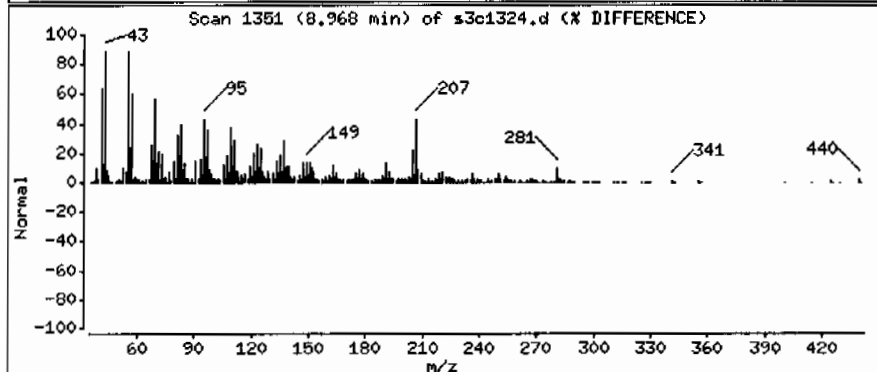
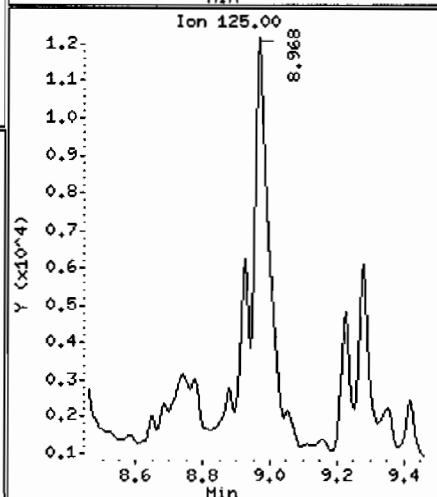
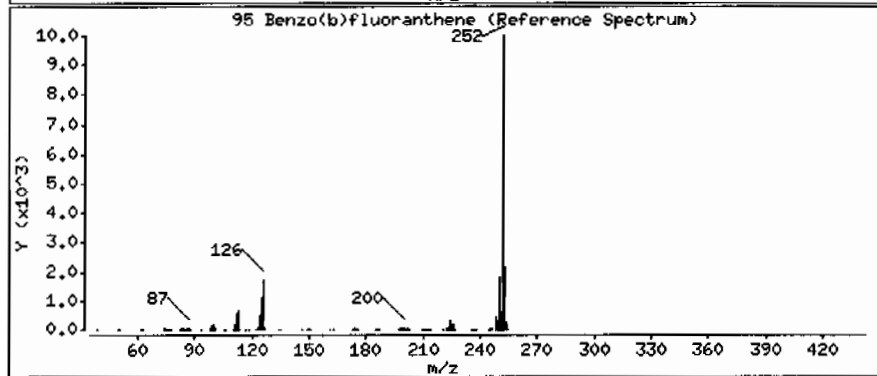
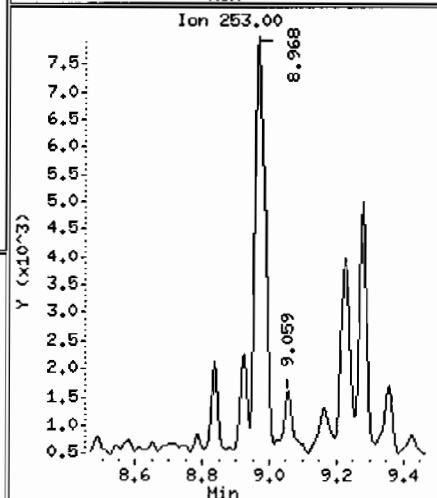
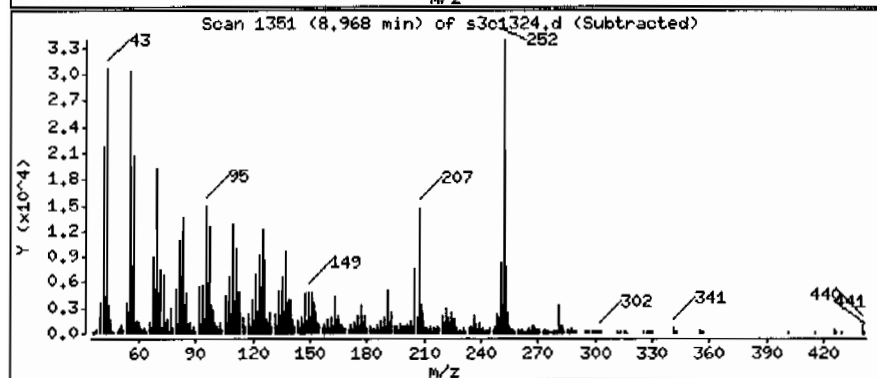
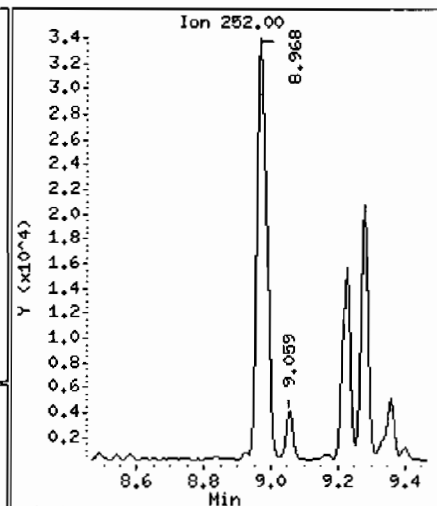
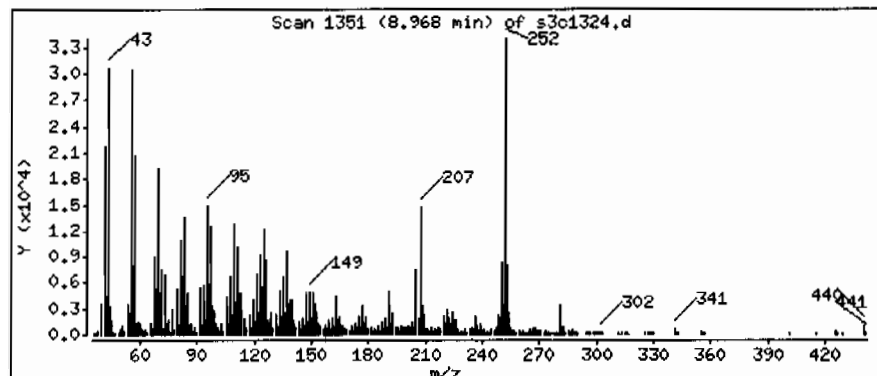
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 517 ug/Kg



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.1

Sample Info: 12481970131960459121SVHF111LANL

Volume Injected (uL): 0.5

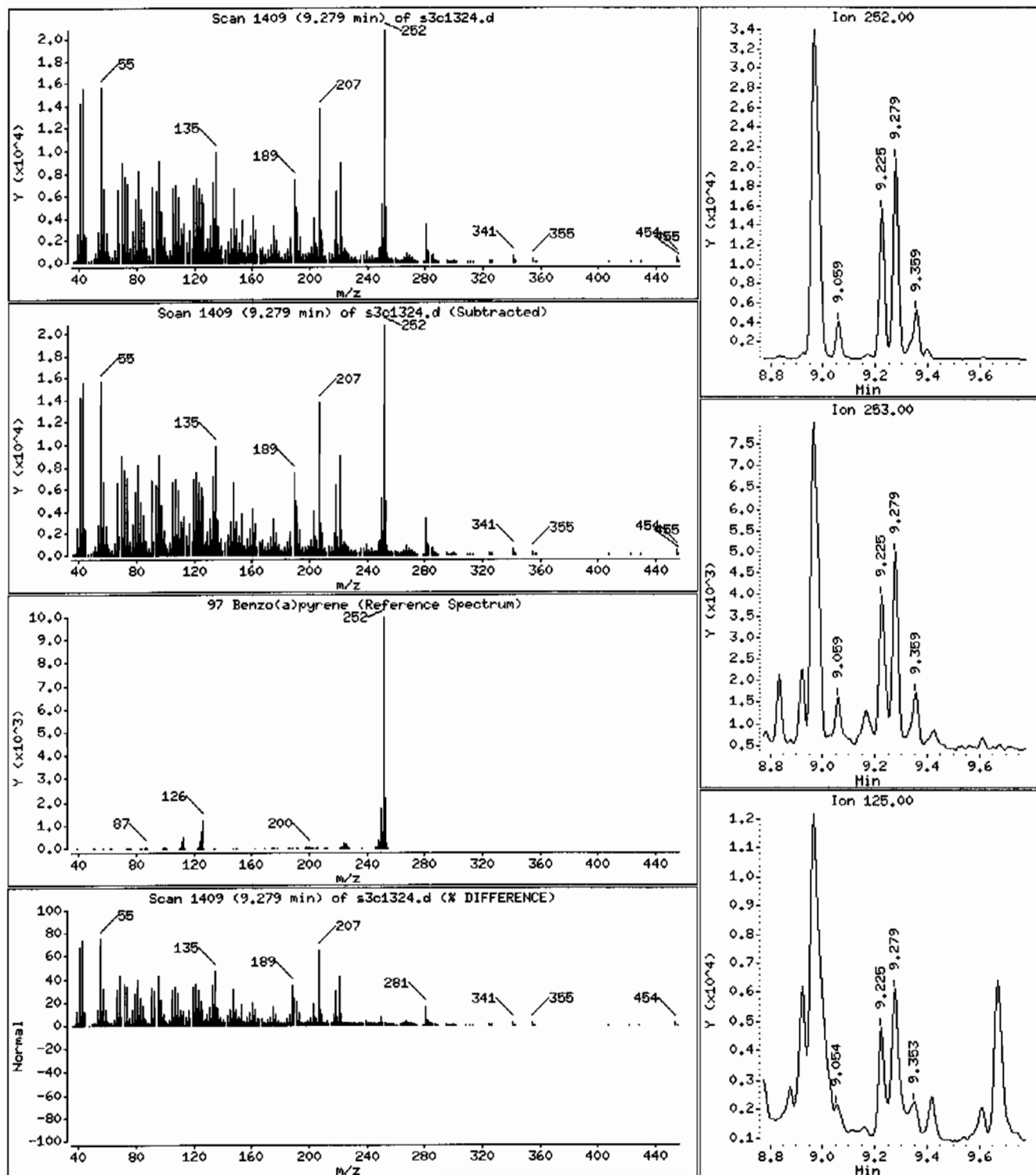
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 263 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

Volume Injected (uL): 0.5

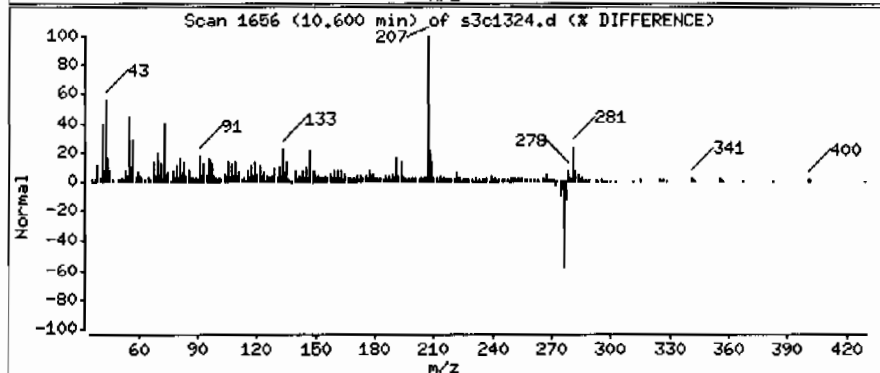
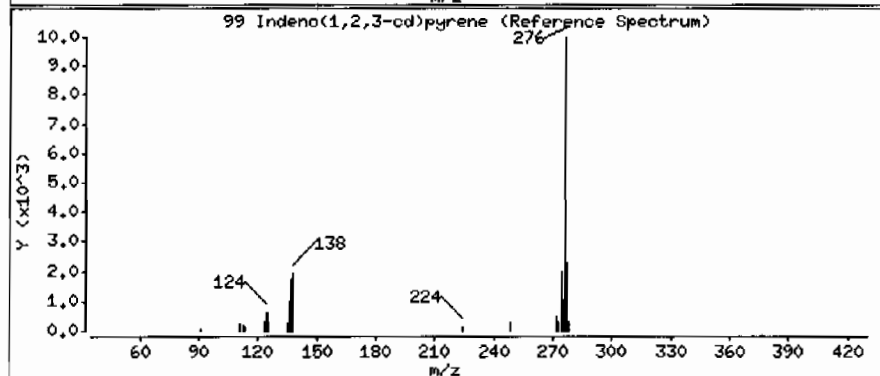
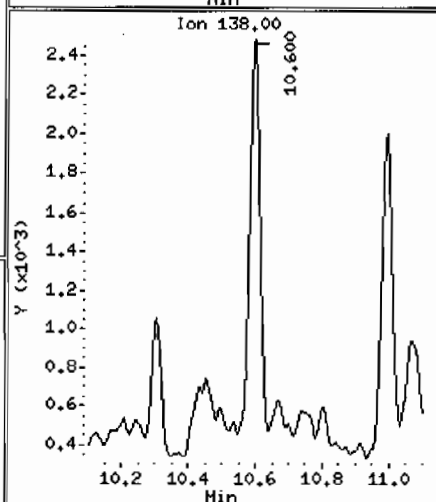
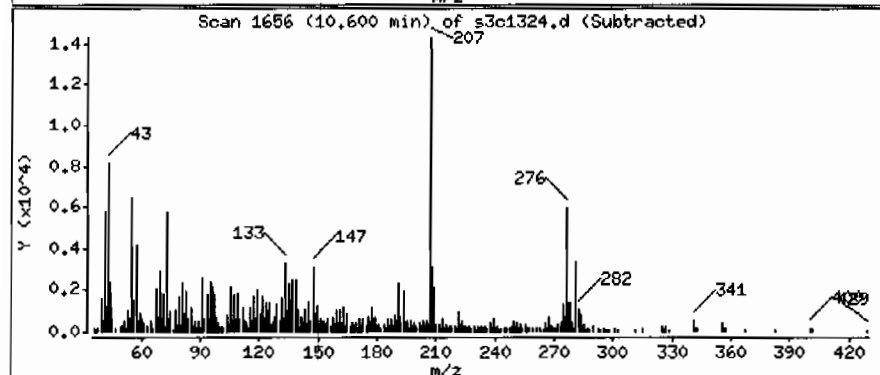
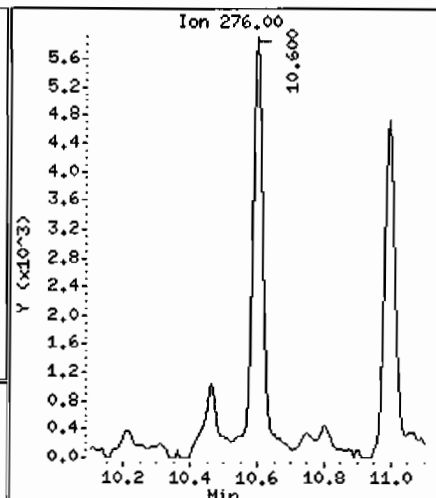
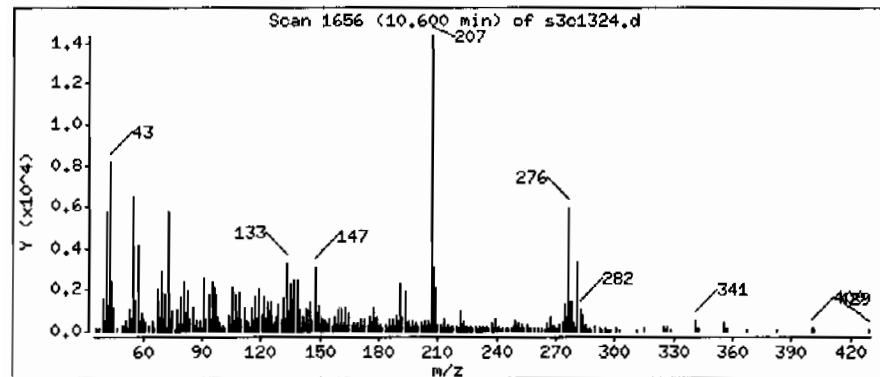
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 130 ug/Kg



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

Volume Injected (uL): 0.5

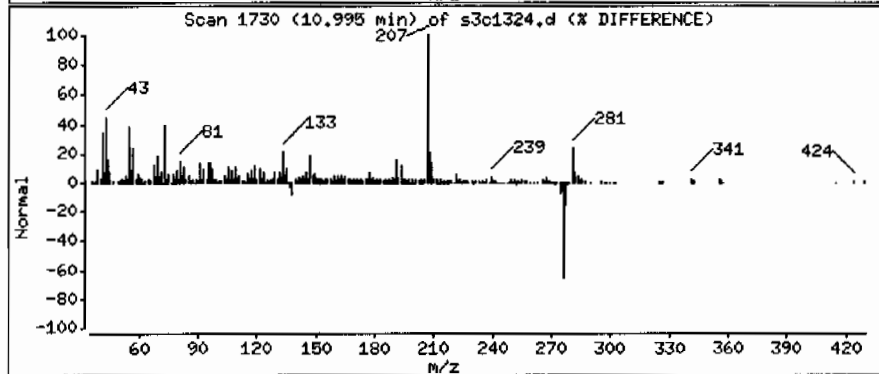
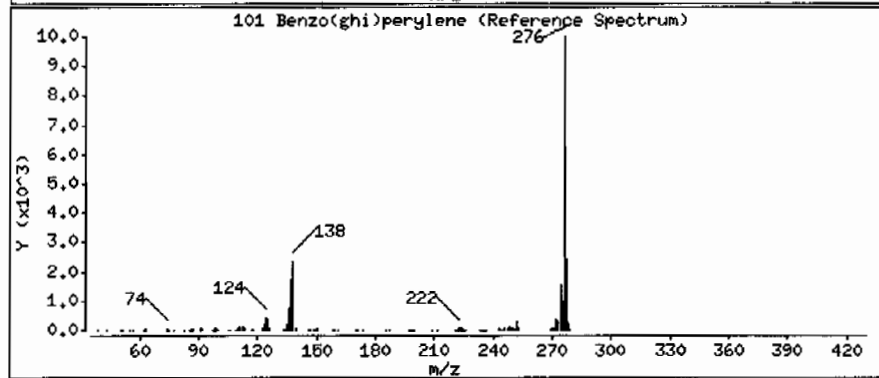
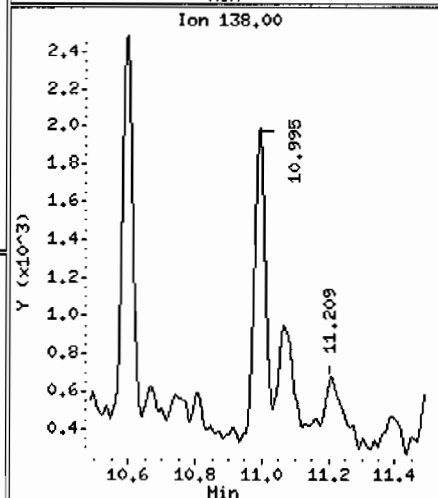
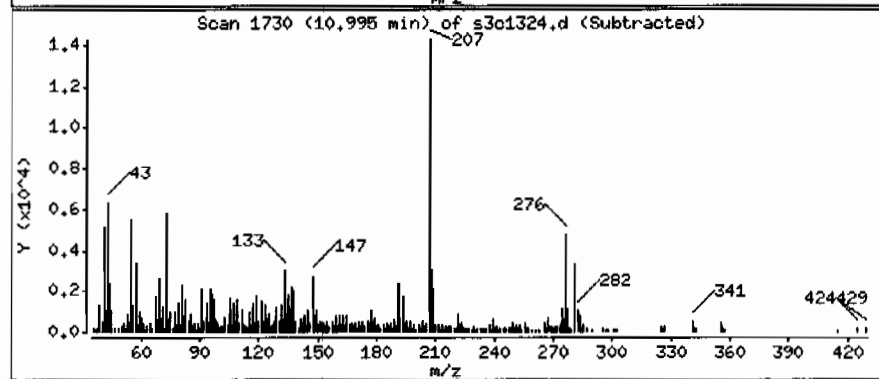
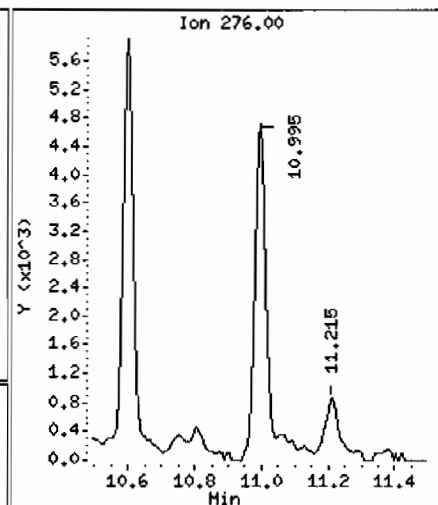
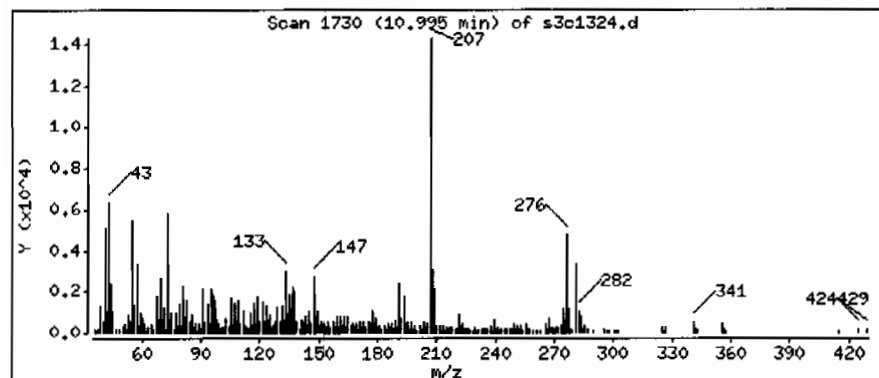
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 134 ug/Kg



Data File: /chem/HSD3.i/s031310.b/s3c1324.d

Page 1

Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVMF11ILANL

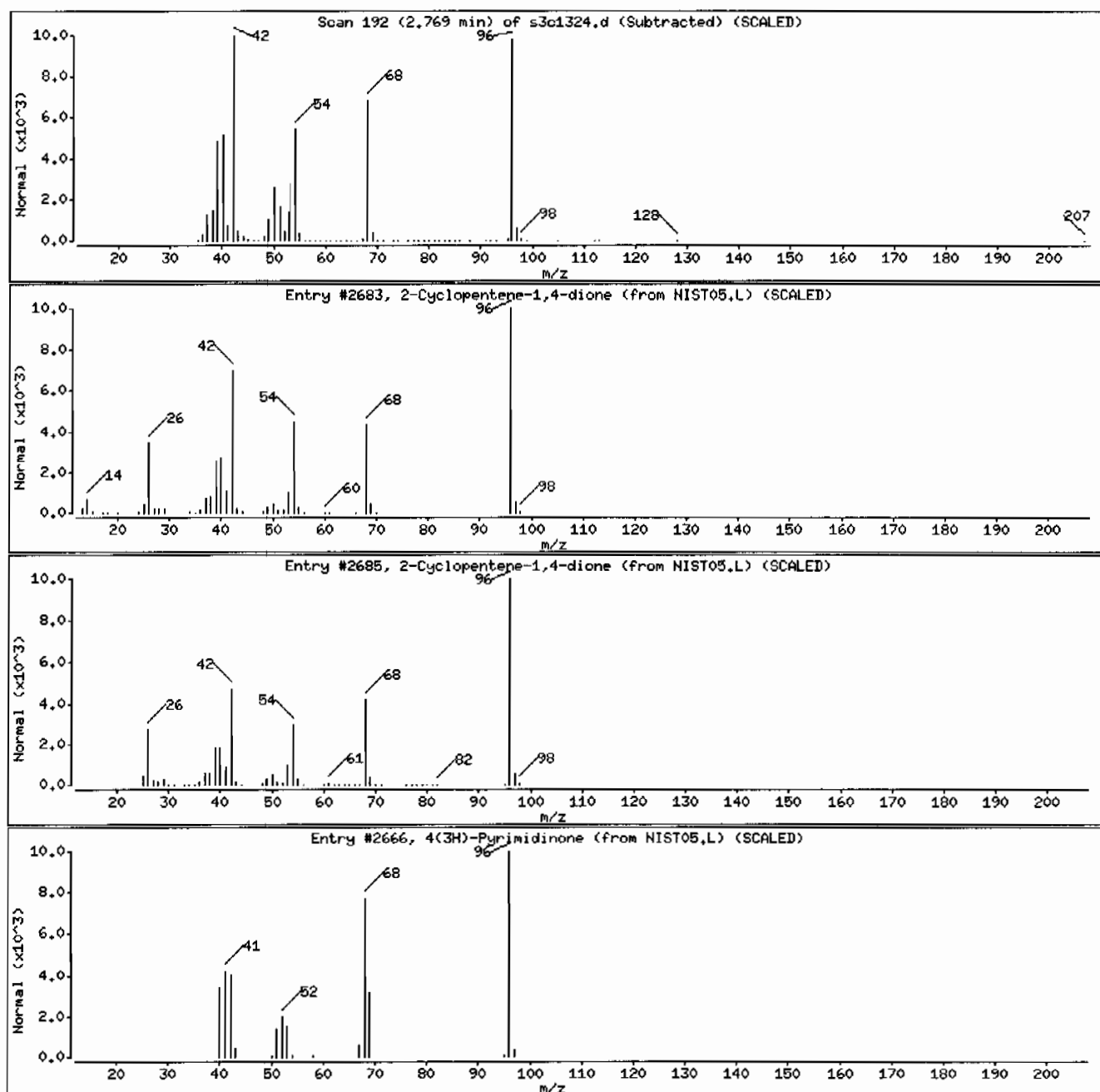
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Cyclopentene-1,4-dione	930-60-9	NIST05.L	2683	58	C5H4O2	96
2-Cyclopentene-1,4-dione	930-60-9	NIST05.L	2685	50	C5H4O2	96
4(3H)-Pyrimidinone	51953-17-4	NIST05.L	2666	49	C4H4N2O	96



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF111LANL

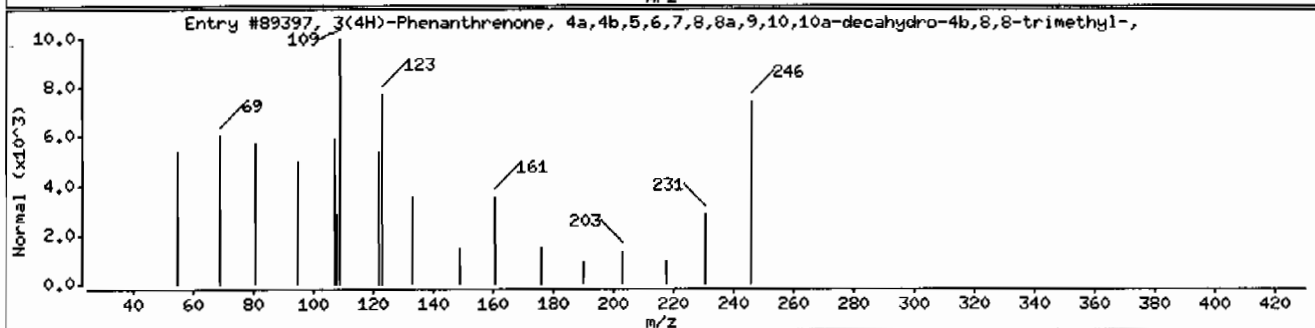
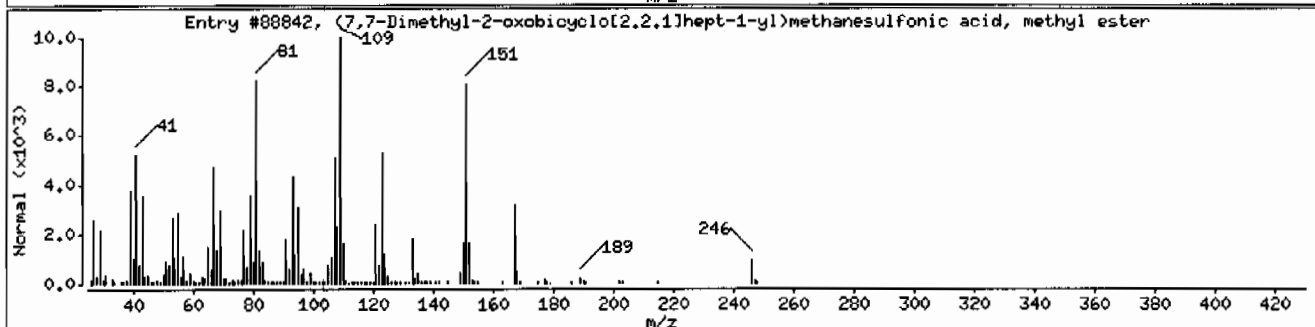
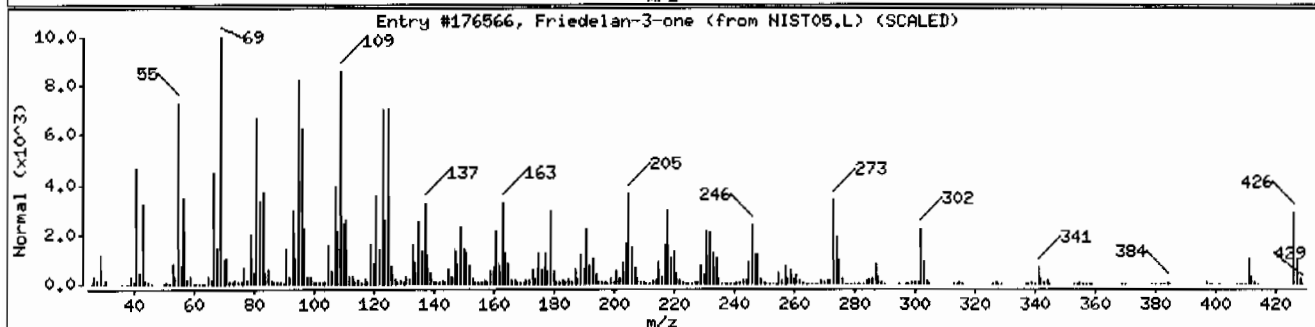
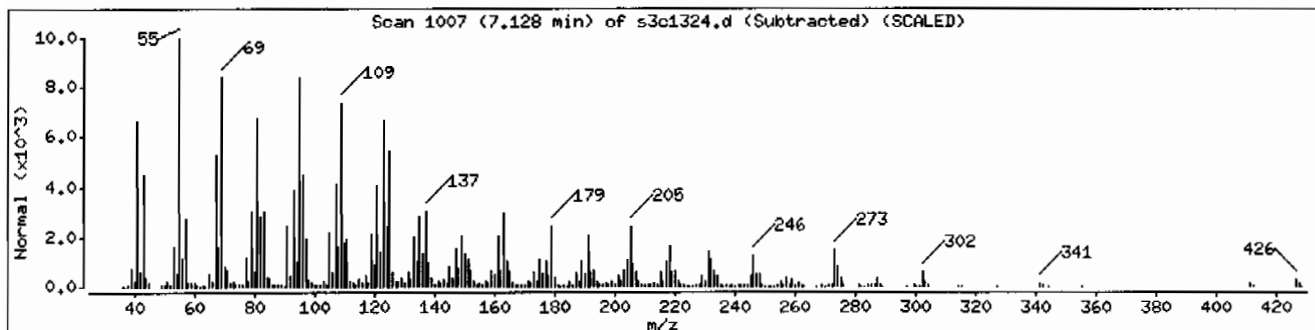
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Friedelan-3-one	559-74-0	NIST05.L	176566	87	C30H50O	426
(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-	1000197-55-6	NIST05.L	88842	62	C11H18O4S	246
3(4H)-Phenanthrenone, 4a,4b,5,6,7,8,8a,9	57684-12-5	NIST05.L	89397	49	C17H26O	246



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

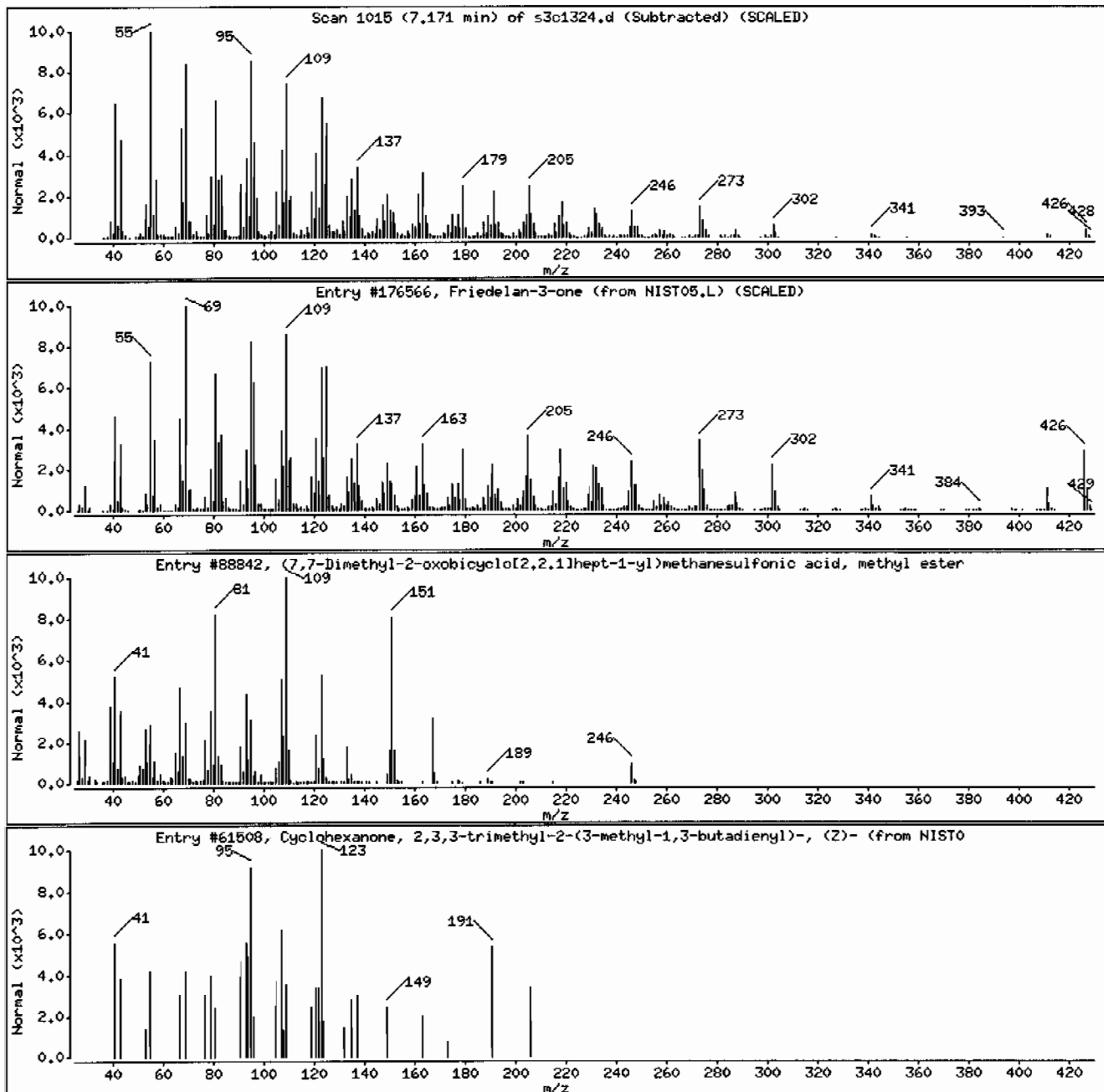
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Friedelan-3-one	559-74-0	NIST05.L	176566	87	C30H50O	426
(7,7-Dimethyl-2-oxobicyclo[2,2,1]hept-1-	1000197-55-6	NIST05.L	88842	62	C11H18O4S	246
Cyclohexanone, 2,3,3-trimethyl-2-(3-meth	69296-90-8	NIST05.L	61508	52	C14H22O	206



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

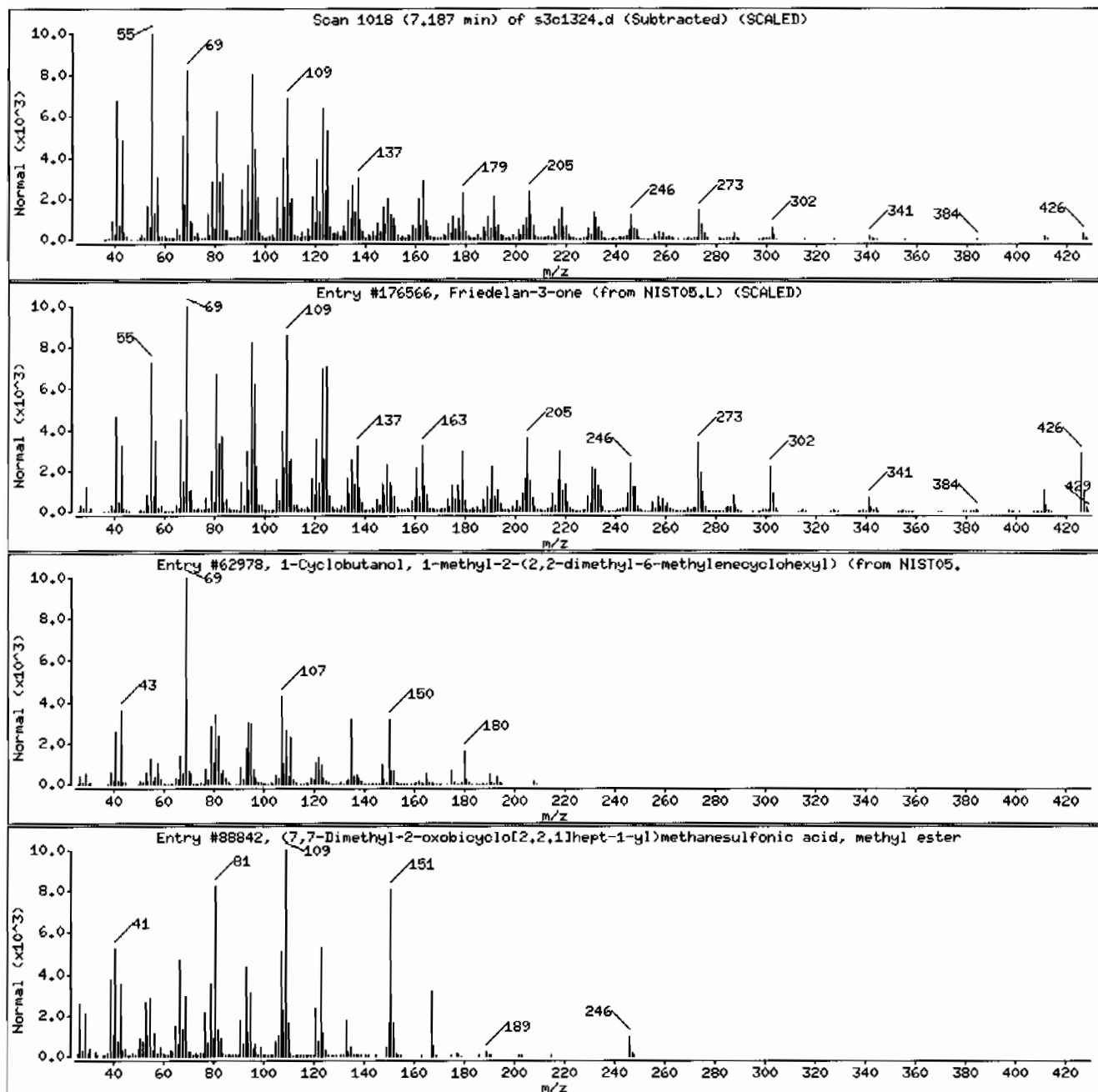
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Friedelan-3-one	559-74-0	NIST05.L	176566	81	C30H50O	426
1-Cyclobutanol, 1-methyl-2-(2,2-dimethyl	1000197-21-8	NIST05.L	62978	50	C14H24O	208
(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-	1000197-55-6	NIST05.L	88842	48	C11H18O4S	246



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

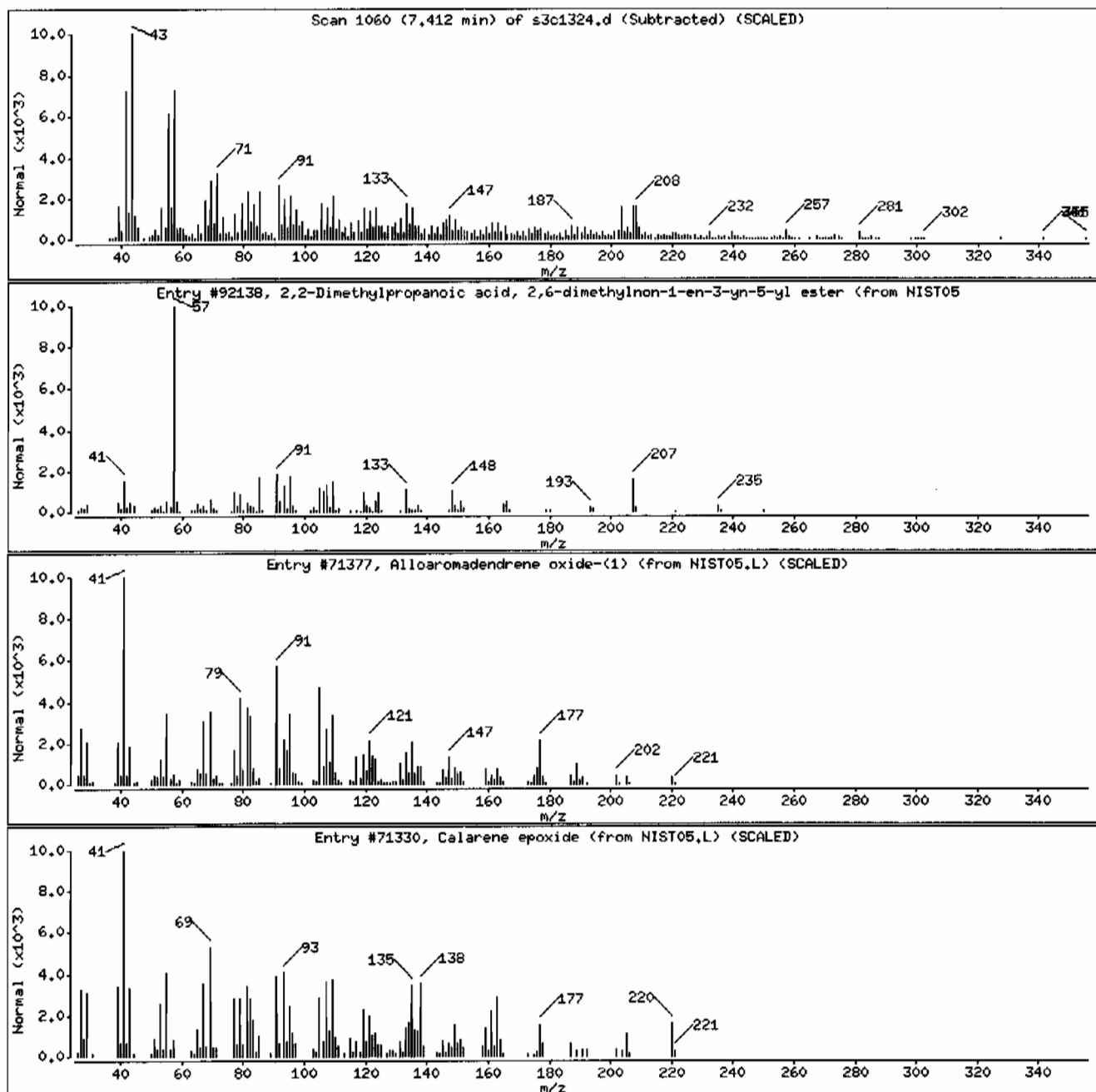
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2-Dimethylpropanoic acid, 2,6-dimethyl	1000299-33-6	NIST05.L	92138	64	C16H26O2	250
Alloaromadendrene oxide-(1)	1000156-12-8	NIST05.L	71377	56	C15H24O	220
Calarene epoxide	1000151-46-0	NIST05.L	71330	50	C15H24O	220



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF11ILANL

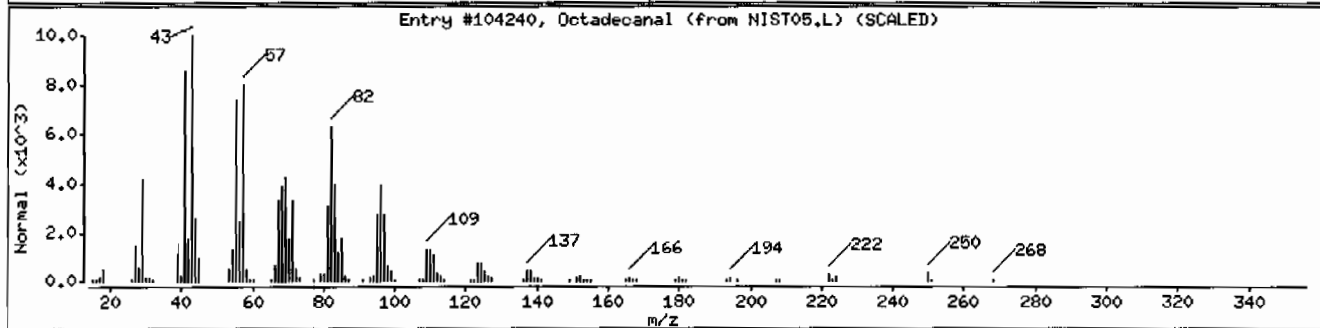
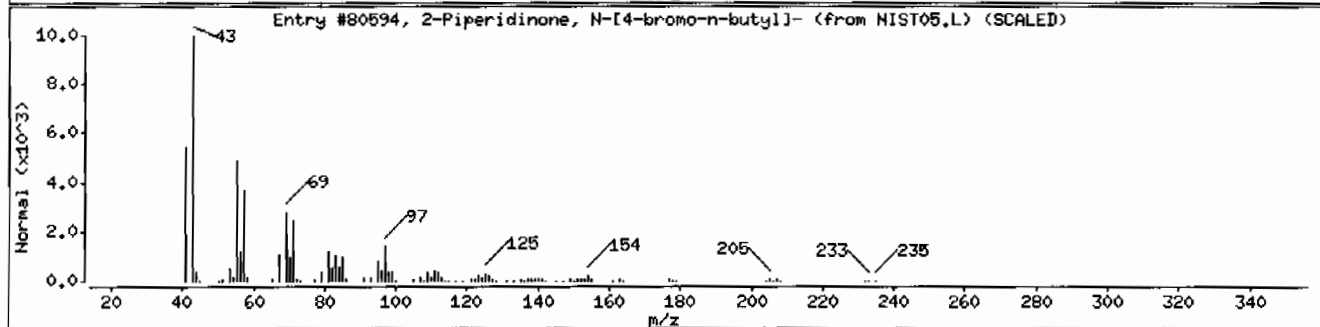
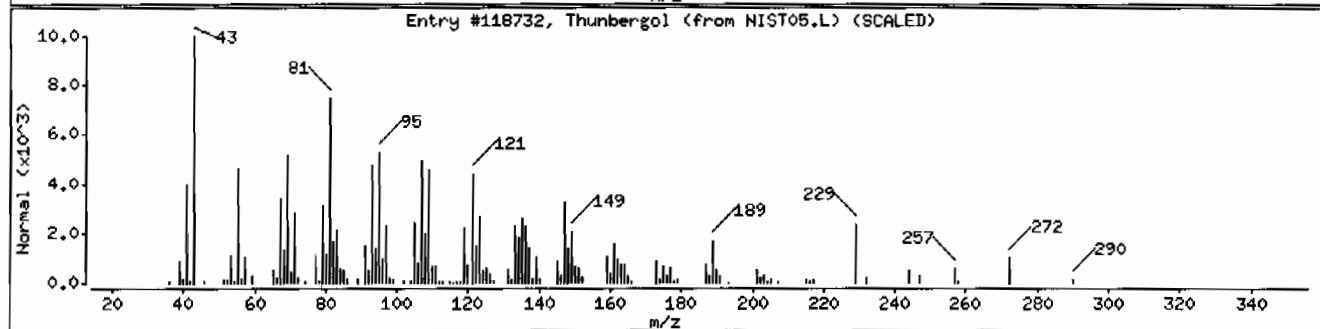
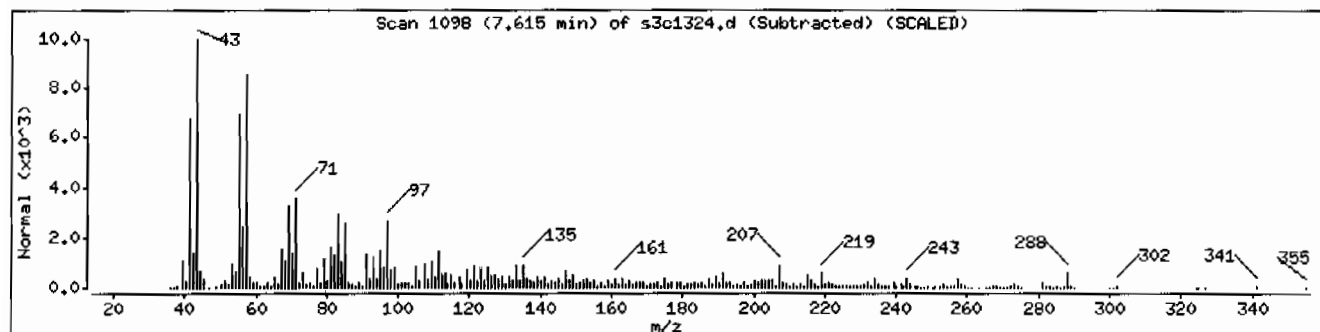
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thunbergol	25269-17-4	NIST05.L	118732	91	C20H34O	290
2-Piperidinone, N-[4-bromo-n-butyl]-	195194-80-0	NIST05.L	80594	78	C9H16BrNO	233
Octadecanal	638-66-4	NIST05.L	104240	70	C18H36O	268



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF11ILANL

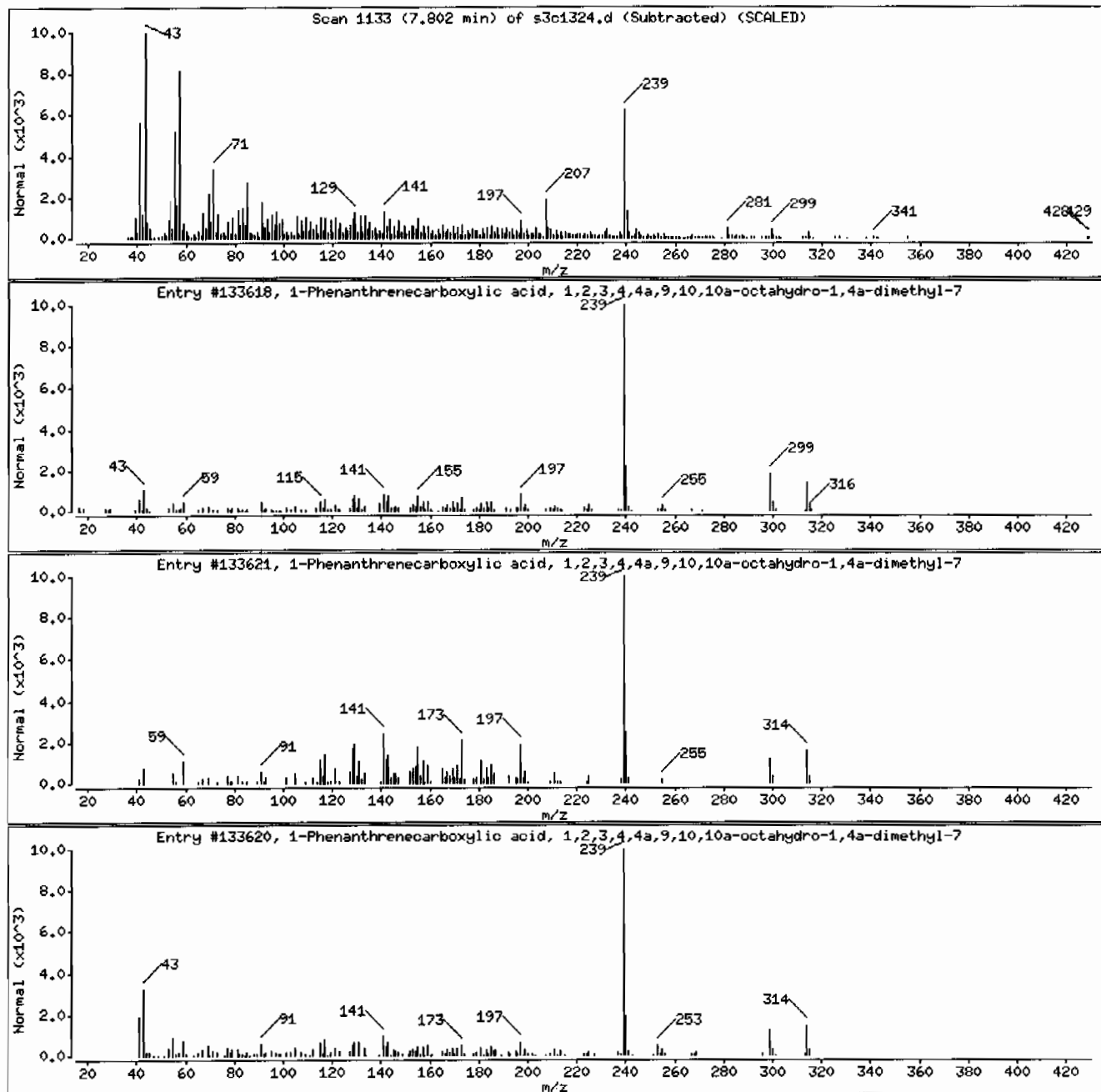
Volume Injected (uL): 0.5

Operator: JLD1

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	94	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133621	93	C21H30O2	314
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1235-74-1	NIST05.L	133620	81	C21H30O2	314



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

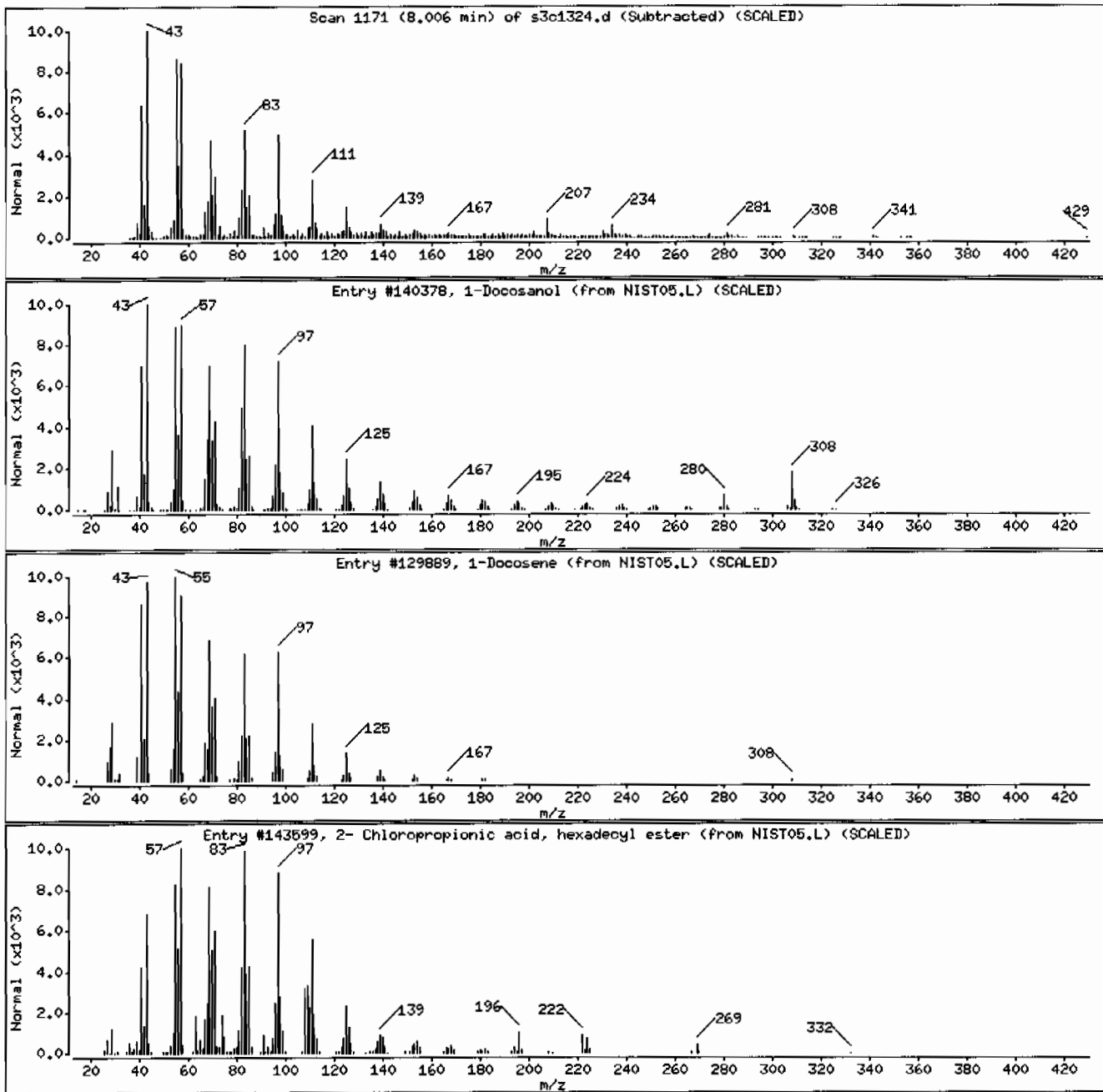
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Docosanol	661-19-8	NIST05.L	140378	94	C22H46O	326
1-Docosene	1599-67-3	NIST05.L	129889	94	C22H44	308
2- Chloropropionic acid, hexadecyl ester	86711-81-1	NIST05.L	143599	91	C19H37ClO2	332



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

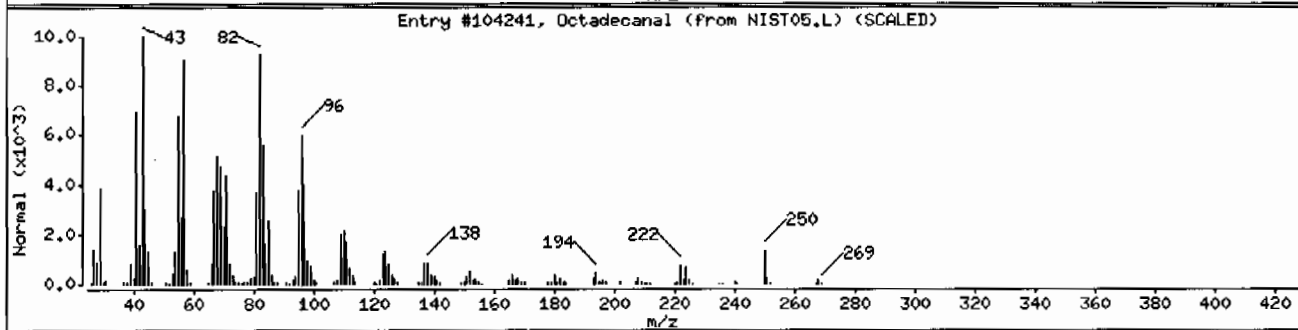
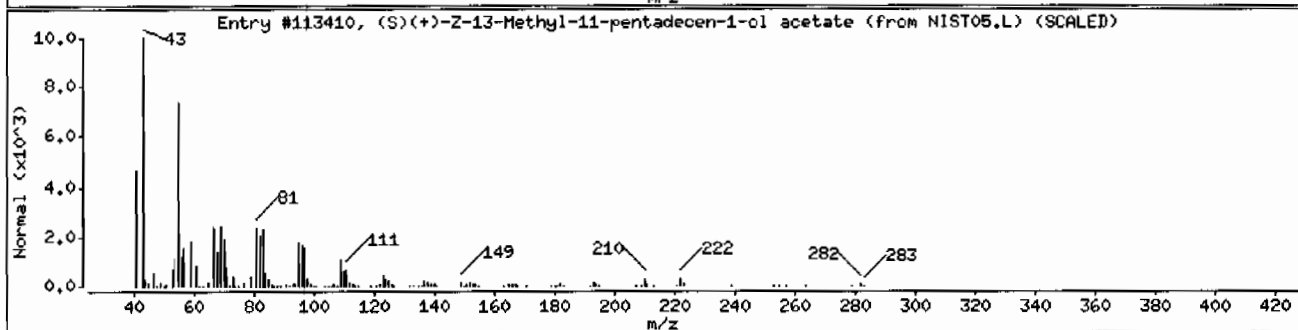
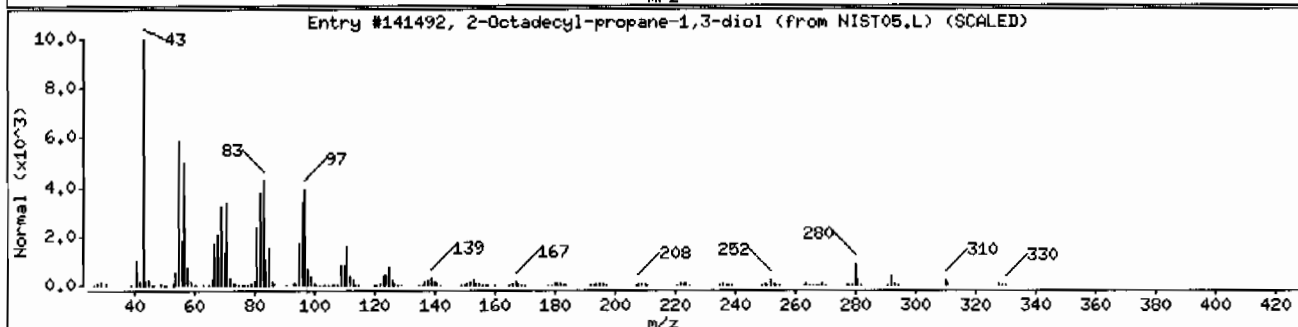
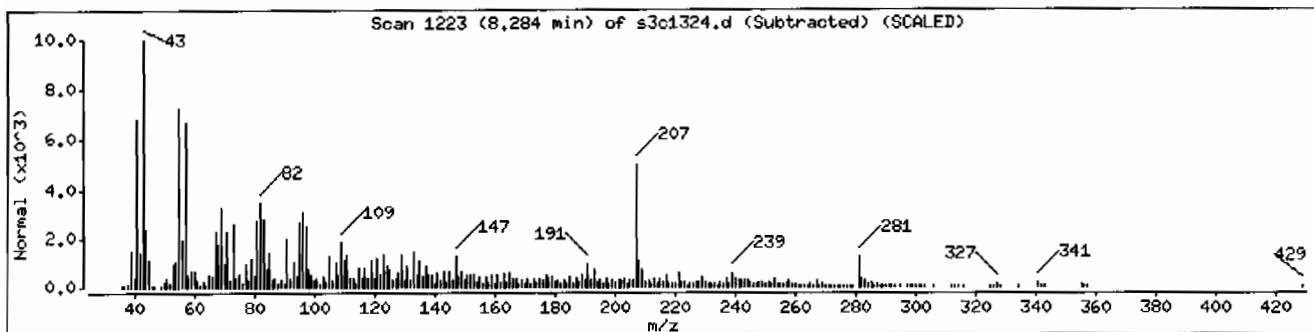
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Octadecyl-propane-1,3-diol	5337-61-1	NIST05.L	141492	62	C21H44O2	328
(S)(+)-Z-13-Methyl-11-pentadecen-1-ol ac	1000130-84-8	NIST05.L	113410	55	C18H34O2	282
Octadecanal	638-66-4	NIST05.L	104241	47	C18H36O	268



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

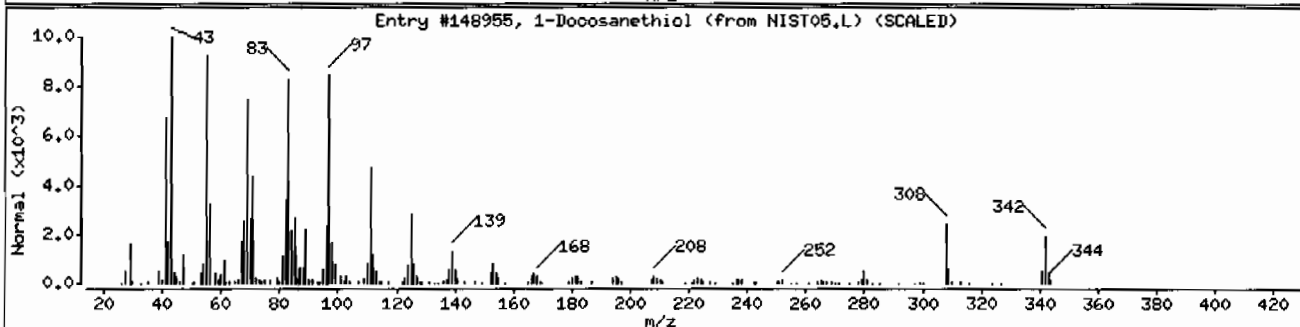
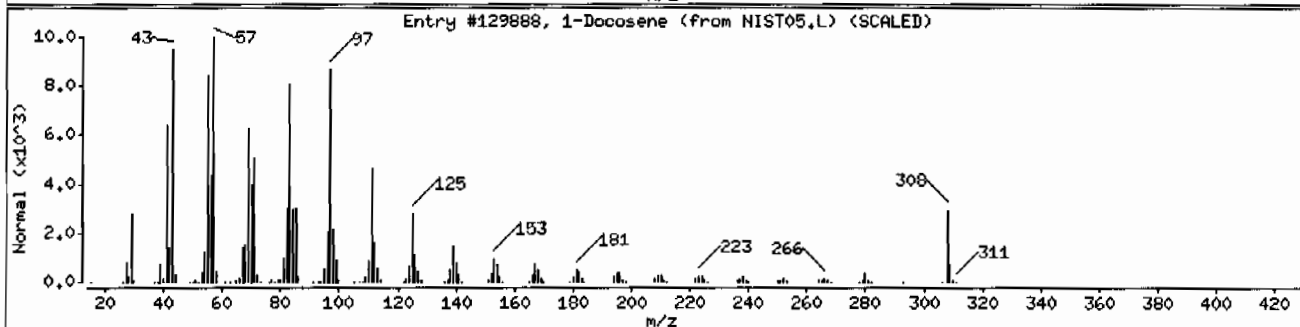
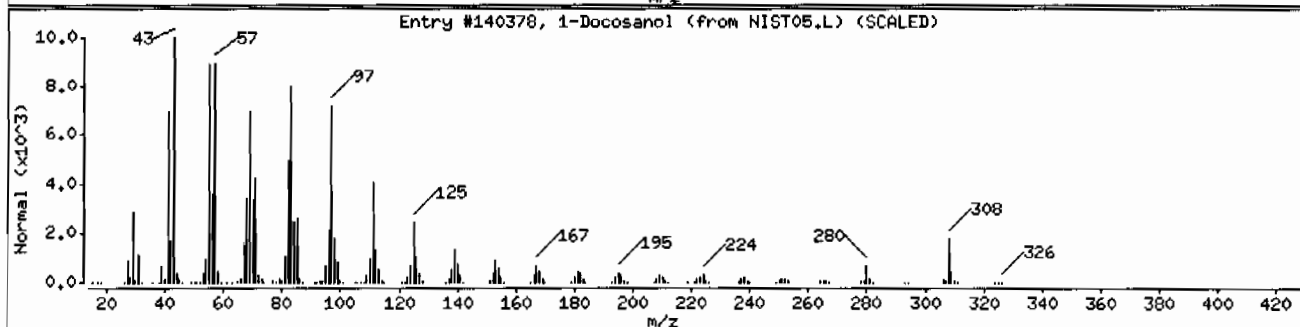
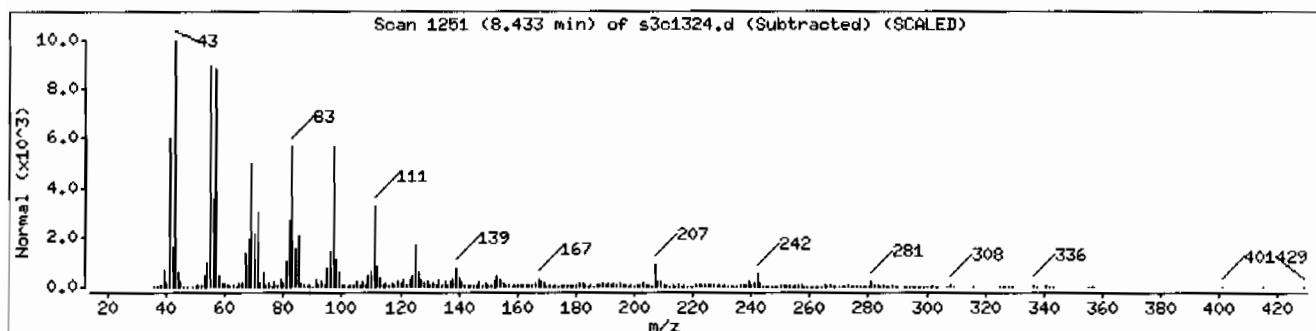
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Docosanol	661-19-8	NIST05.L	140378	99	C22H46O	326
1-Docosene	1599-67-3	NIST05.L	129888	93	C22H44	308
1-Docosanethiol	7773-83-3	NIST05.L	148955	91	C22H46S	342



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 1248197013196045912ISVHF11ILANL

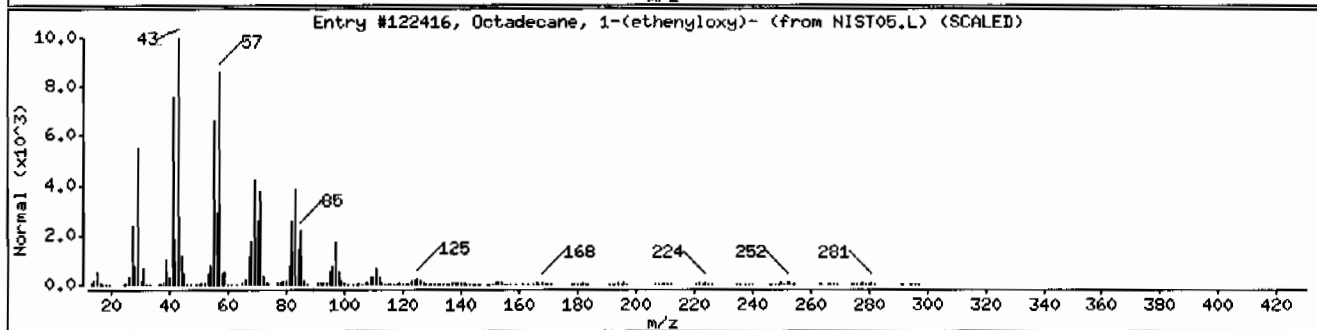
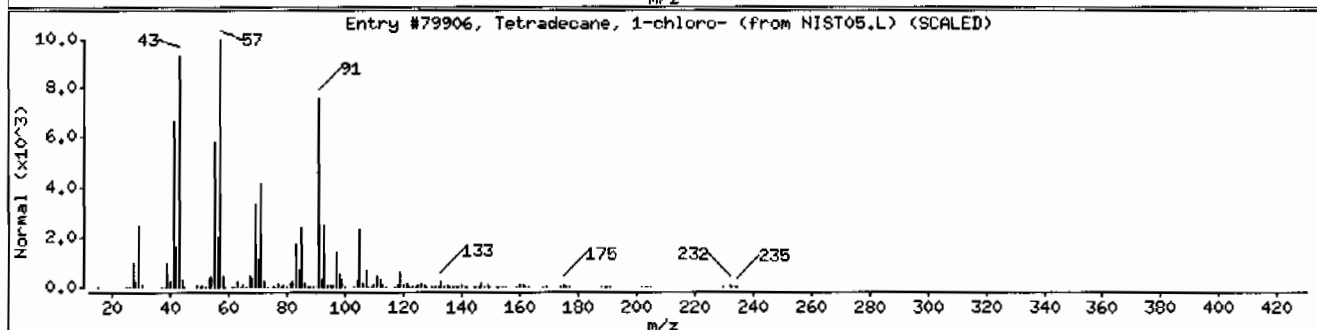
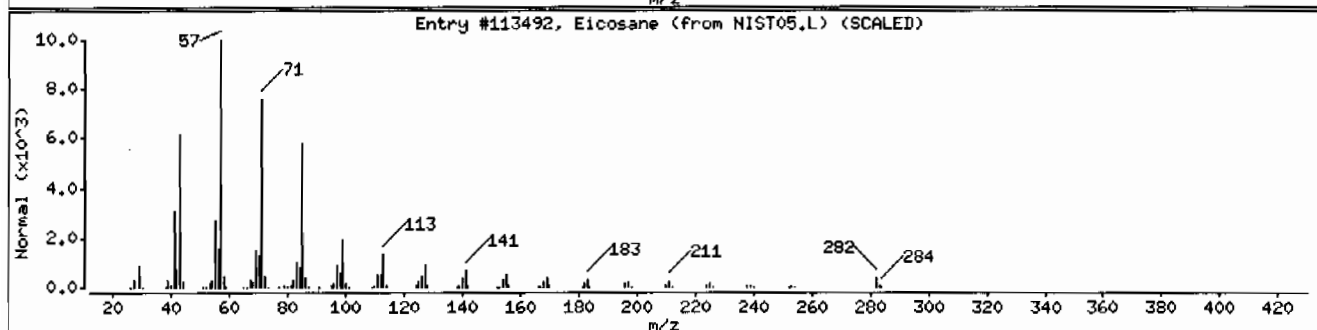
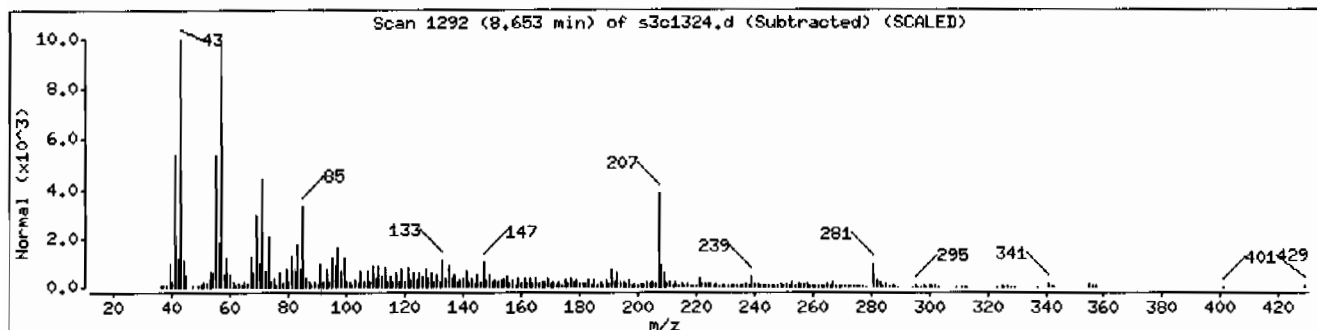
Volume Injected (uL): 0.5

Operator: JLD1

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	93	C ₂₀ H ₄₂	282
Tetradecane, 1-chloro-	2425-54-9	NIST05.L	79906	47	C ₁₄ H ₂₉ Cl	232
Octadecane, 1-(ethenylloxy)-	930-02-9	NIST05.L	122416	42	C ₂₀ H ₄₀ O	296



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3,i

Sample Info: 12481970131960459121SVMF111LANL

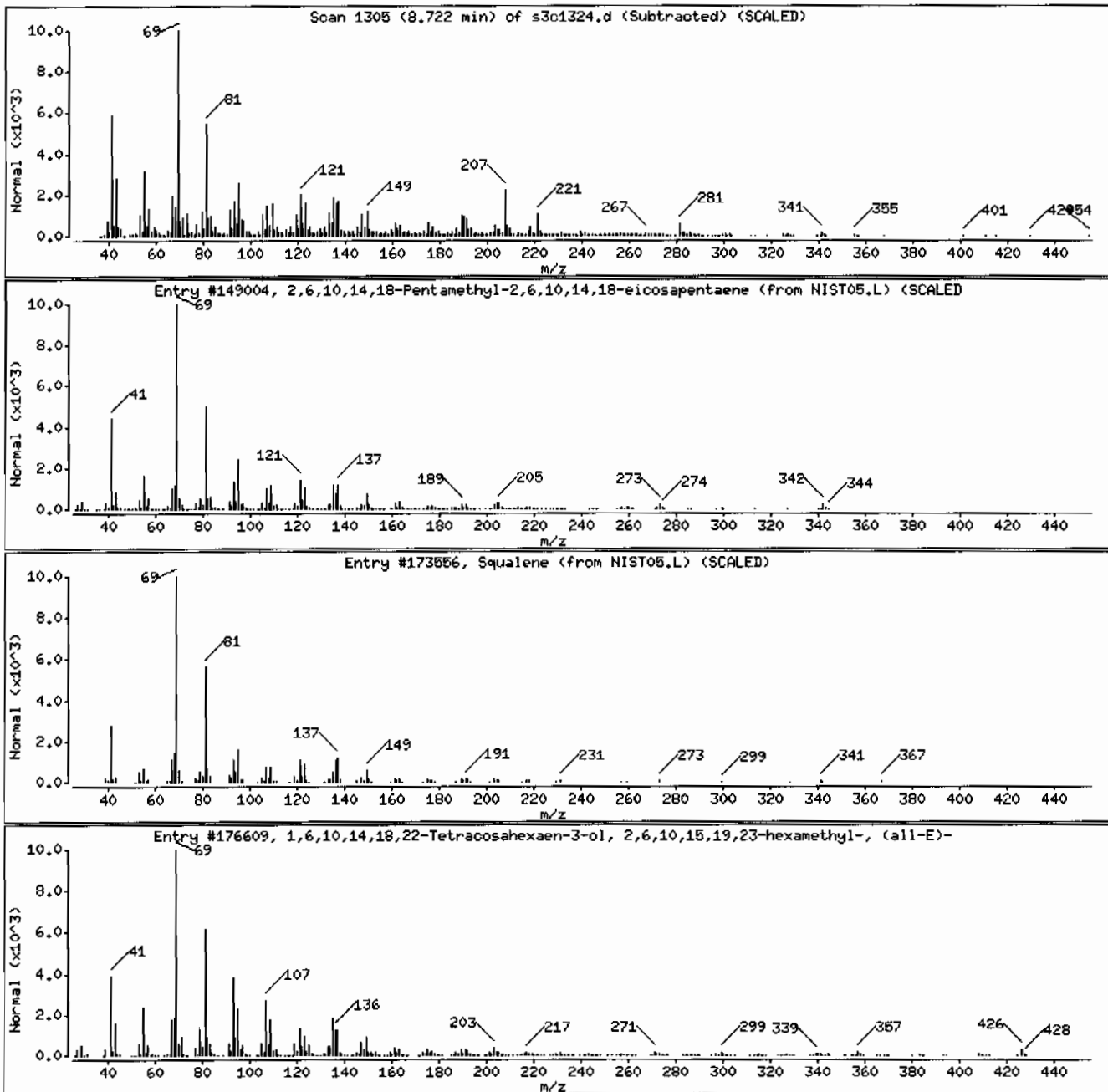
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,6,10,14,18-Pentamethyl-2,6,10,14,18-ei	75581-03-2	NIST05.L	149004	90	C25H42	342
Squalene	7683-64-9	NIST05.L	173556	53	C30H50	410
1,6,10,14,18,22-Tetracosahexaen-3-ol, 2,	54159-46-5	NIST05.L	176609	52	C30H50O	426



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVHF111LANL

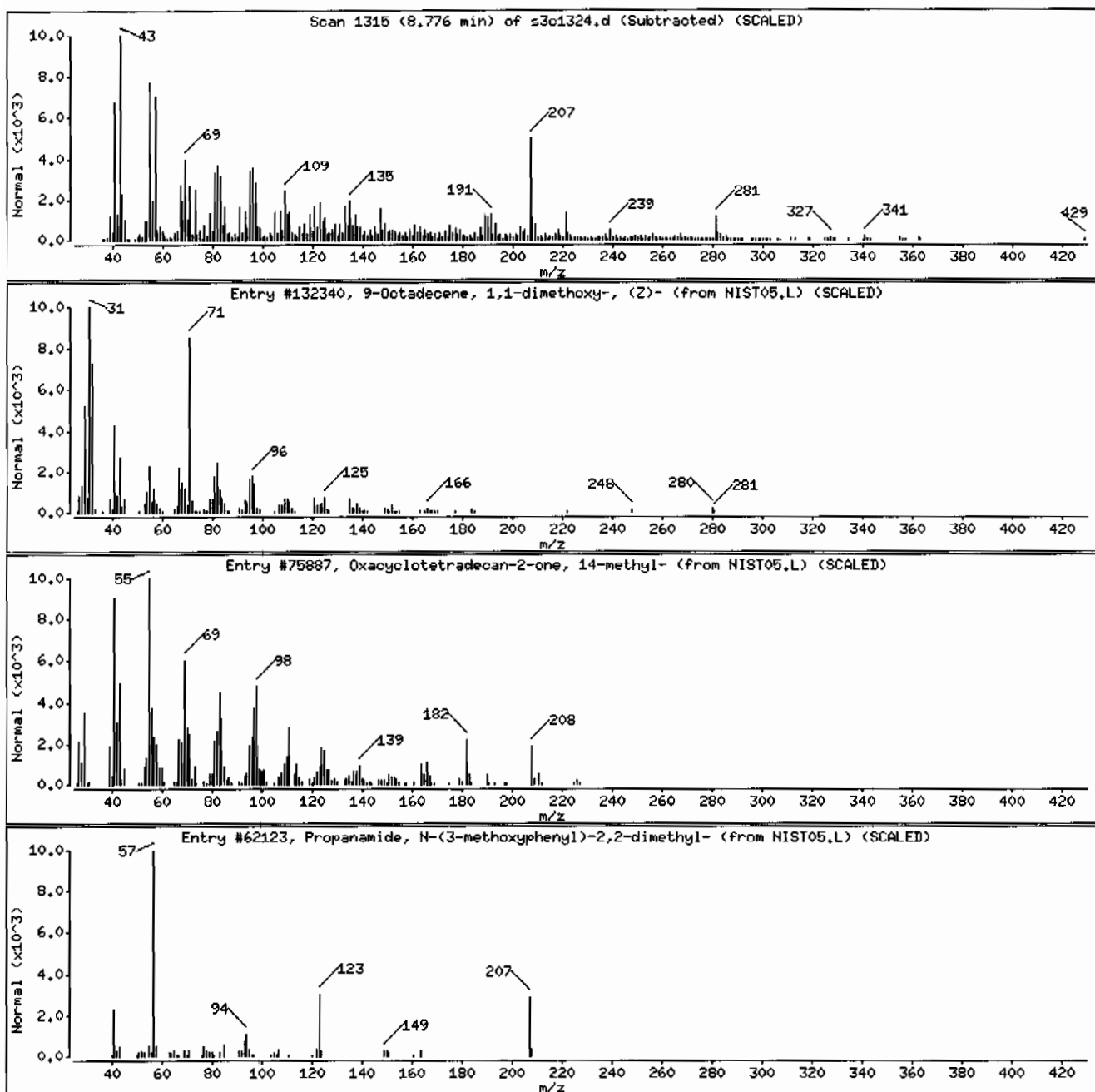
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecene, 1,1-dimethoxy-, (Z)-	15677-71-1	NIST05.L	132340	27	C ₂₀ H ₄₀ O ₂	312
Oxacyclotetradecan-2-one, 14-methyl-	27198-63-6	NIST05.L	75887	20	C ₁₄ H ₂₆ O ₂	226
Propanamide, N-(3-methoxyphenyl)-2,2-dimethyl-	56619-93-3	NIST05.L	62123	18	C ₁₂ H ₁₇ N ₂ O ₂	207



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

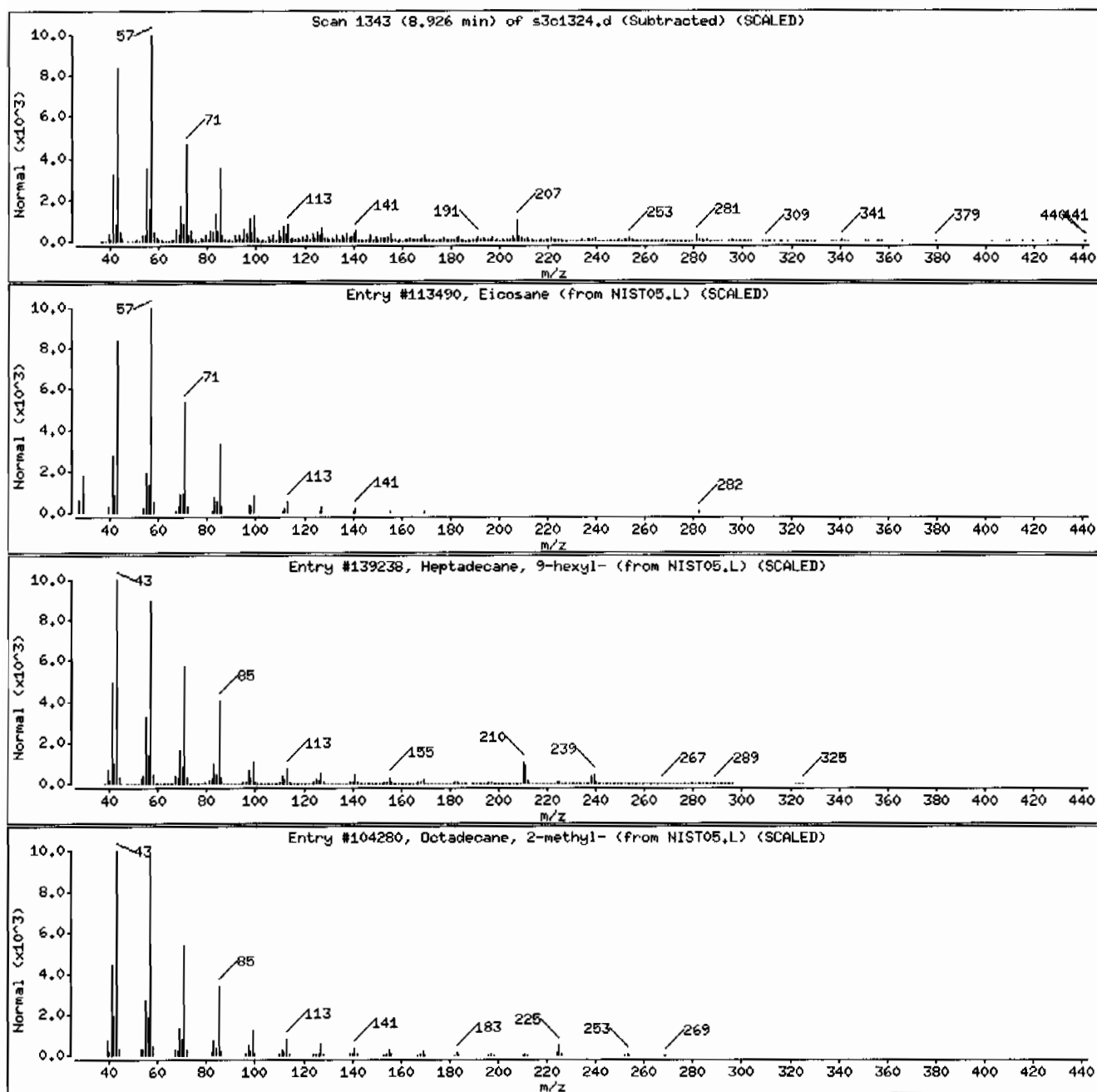
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	NIST05.L	113490	96	C20H42	282
Heptadecane, 9-hexyl-	55124-79-3	NIST05.L	139238	93	C23H48	324
Octadecane, 2-methyl-	1560-88-9	NIST05.L	104280	93	C19H40	268



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: I2481970131960459121SVHF111LANL

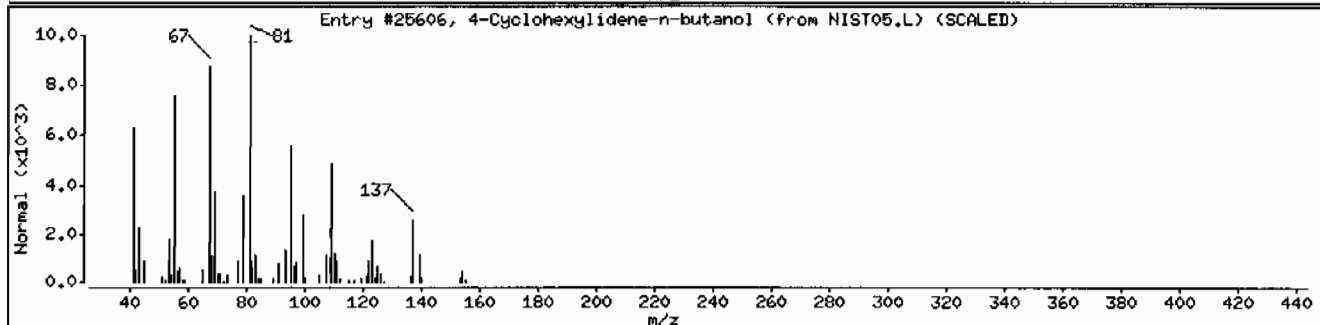
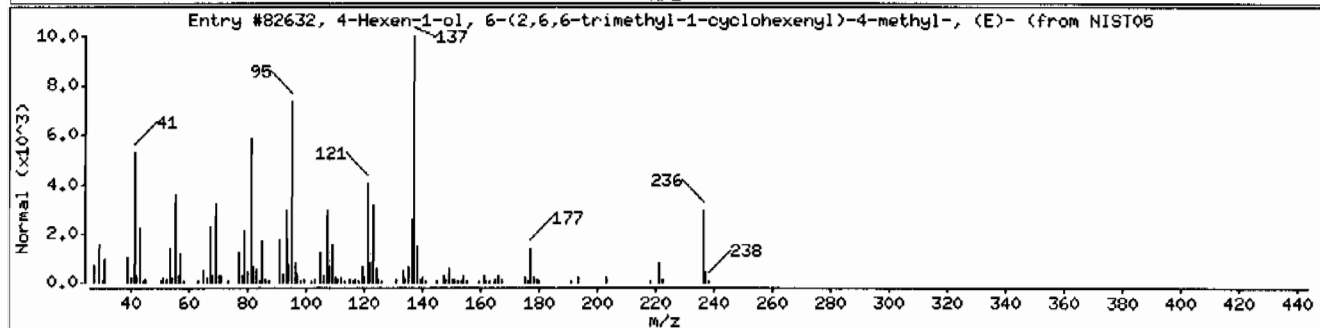
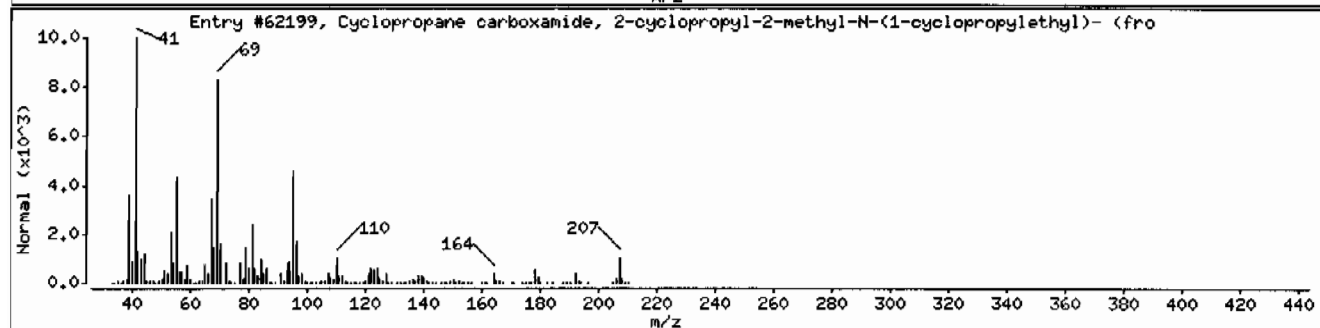
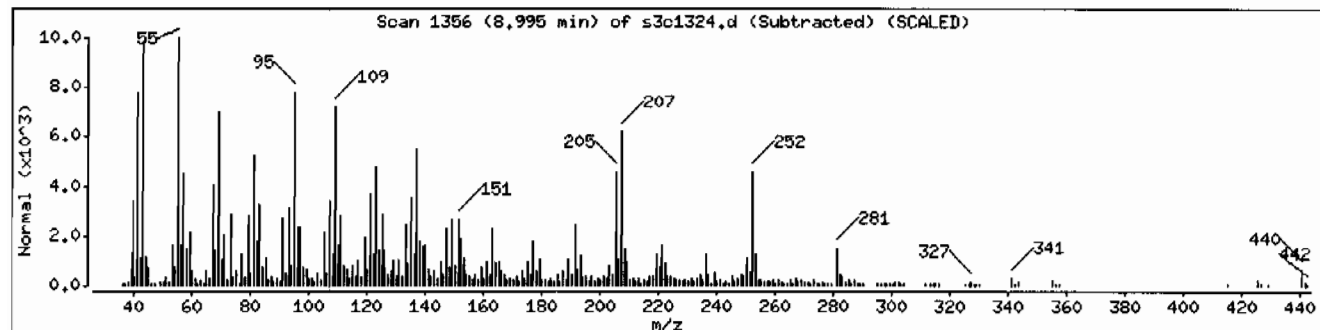
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclopropane carboxamide, 2-cyclopropyl-	331416-19-4	NIST05.L	62199	70	C13H21NO	207
4-Hexen-1-ol, 6-(2,6,6-trimethyl-1-cyclo	1000221-57-6	NIST05.L	82632	38	C16H28O	236
4-Cyclohexylidene-n-butanol	4441-58-1	NIST05.L	25606	30	C10H18O	154



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

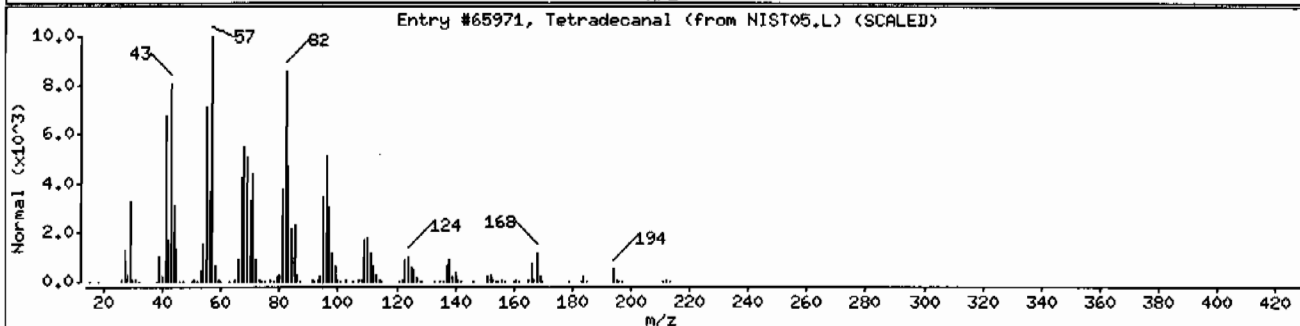
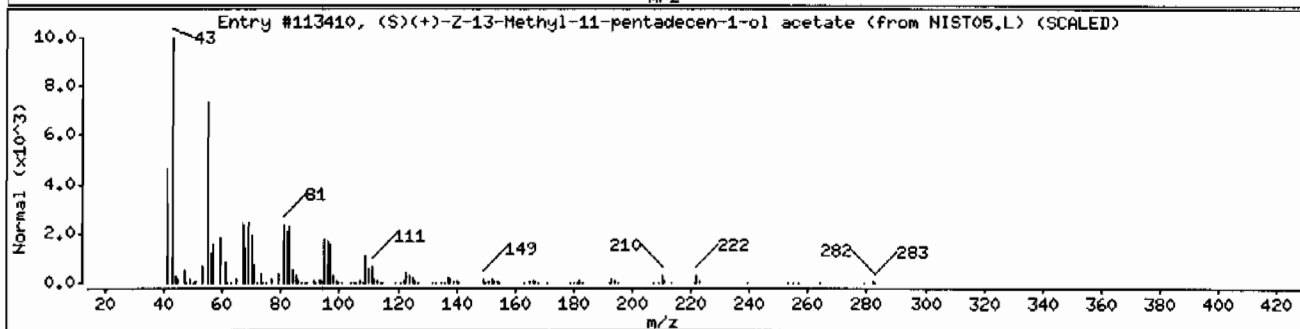
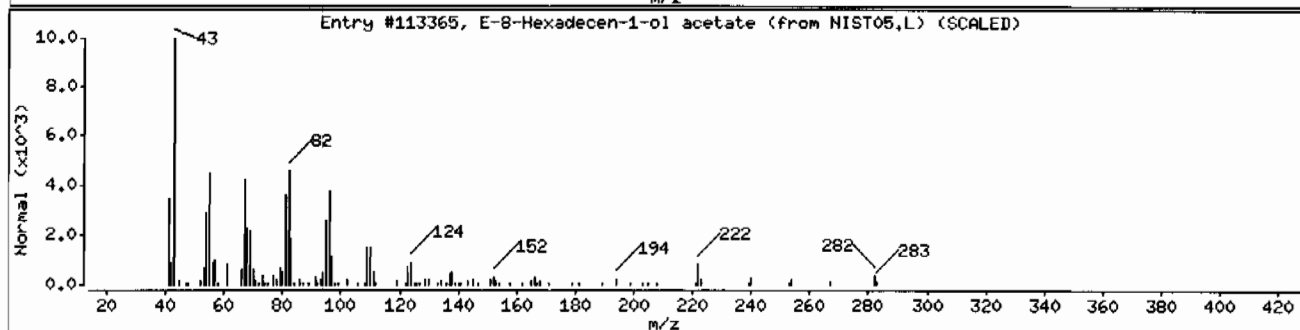
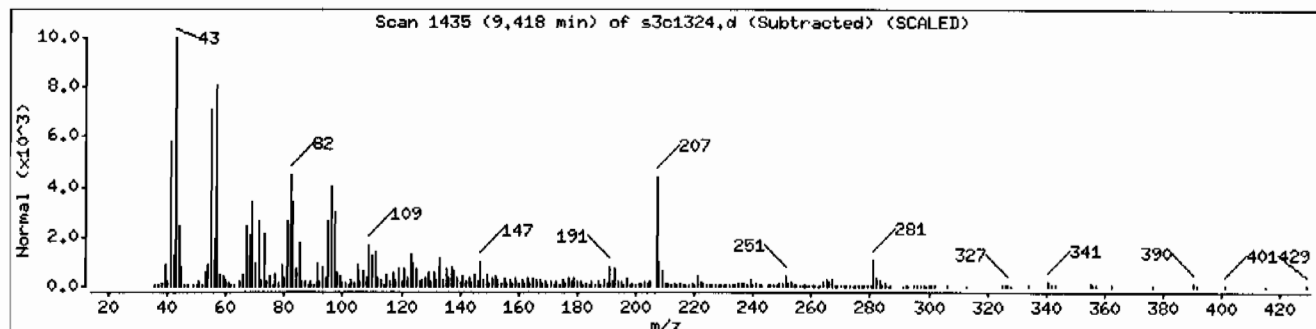
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
E-8-Hexadecen-1-ol acetate	1000131-01-1	NIST05.L	113365	70	C18H34O2	282
(S)(+)-Z-13-Methyl-11-pentadecen-1-ol ac	1000130-84-8	NIST05.L	113410	55	C18H34O2	282
Tetradecanal	124-25-4	NIST05.L	65971	50	C14H28O	212



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 1248197013196045912ISVMF111LANL

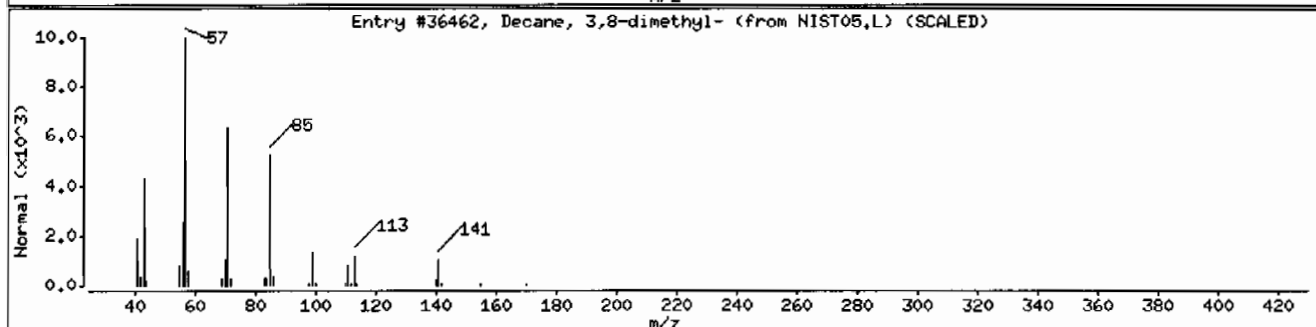
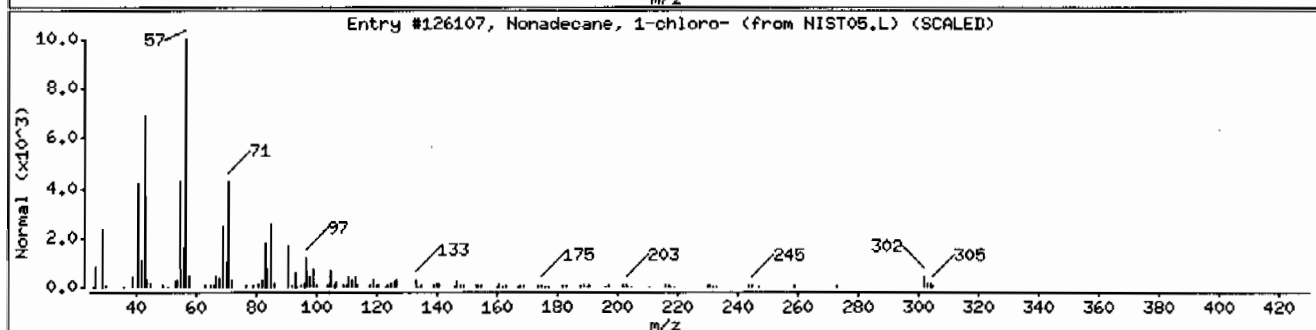
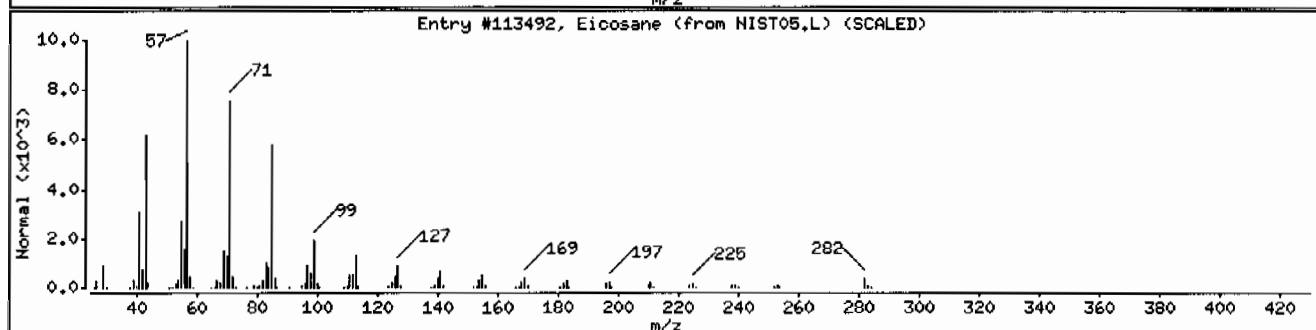
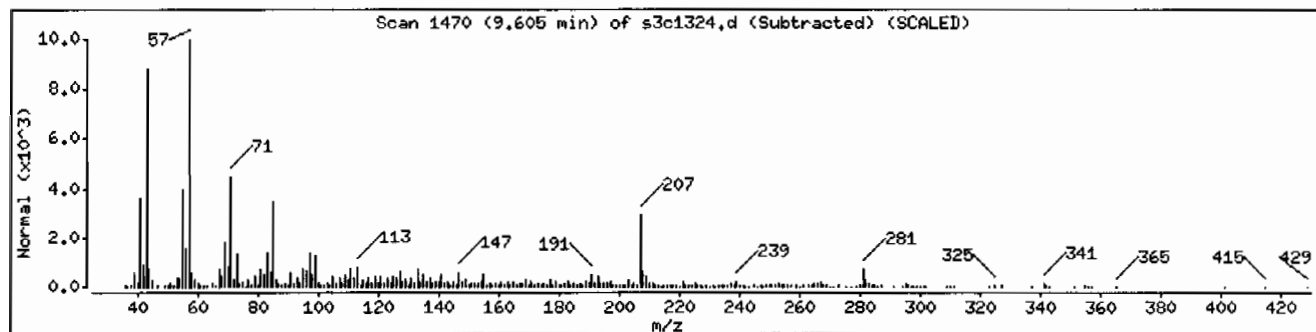
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-96-8	NIST05.L	113492	96	C20H42	282
Nonadecane, 1-chloro-	62016-76-6	NIST05.L	126107	93	C19H39Cl	302
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	87	C12H26	170



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: I248197013196045912ISVMF11ILANL

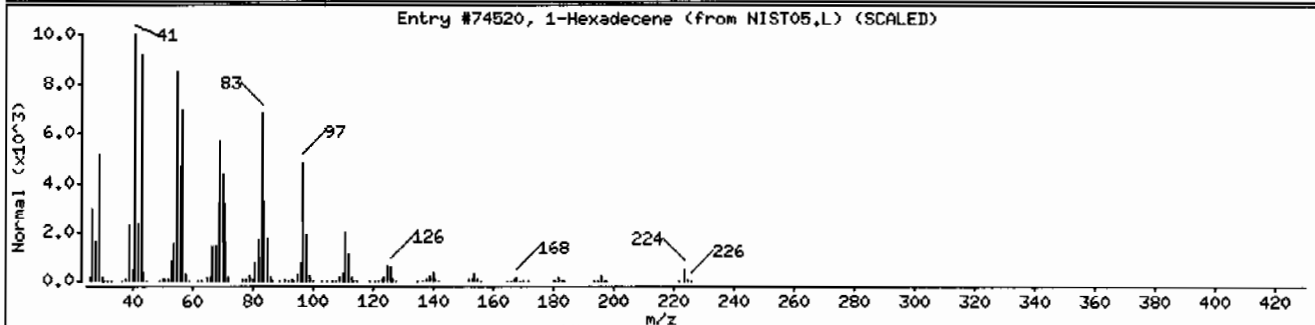
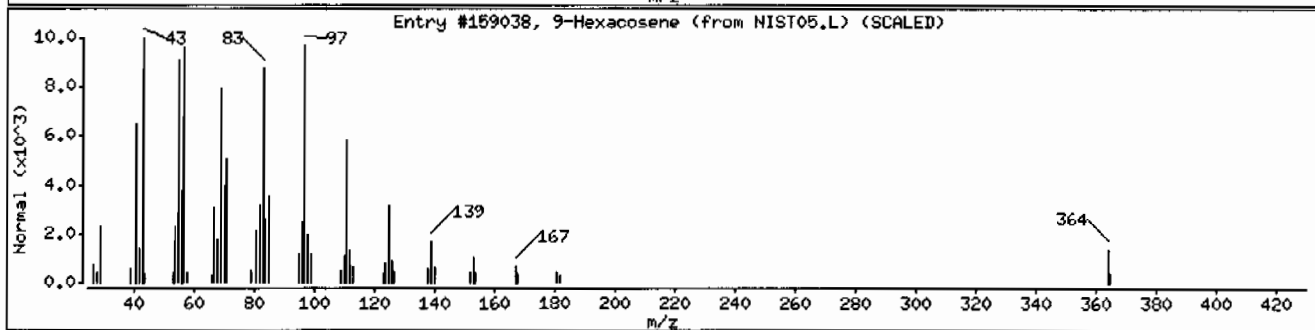
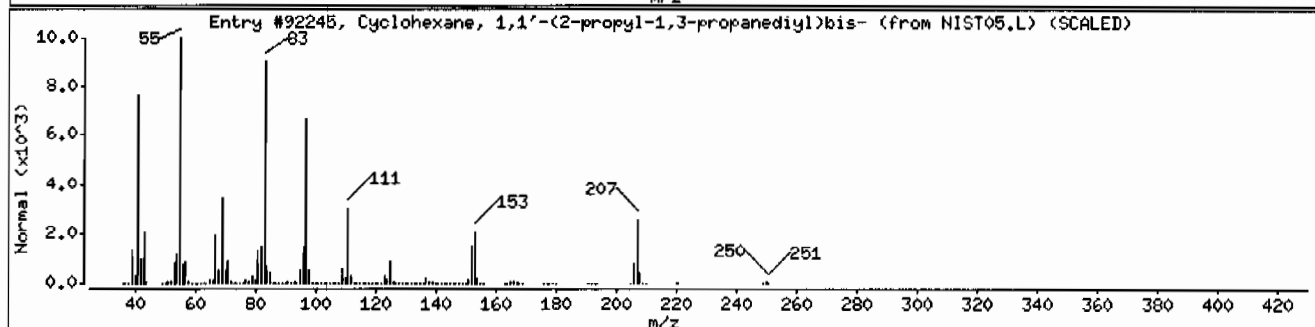
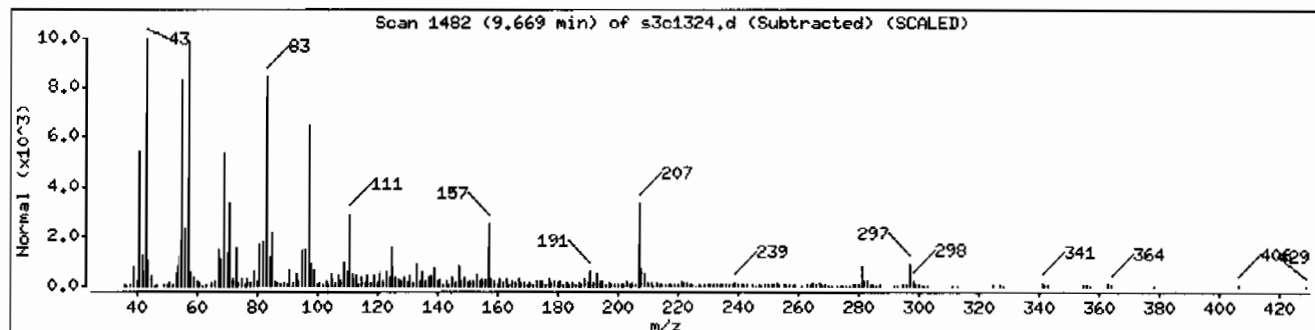
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1,1'-(2-propyl-1,3-propanediyl)bis-	55030-21-2	NIST05.L	92245	76	C18H34	250
9-Hexacosene	71502-22-2	NIST05.L	159038	70	C26H52	364
1-Hexadecene	629-73-2	NIST05.L	74520	64	C16H32	224



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

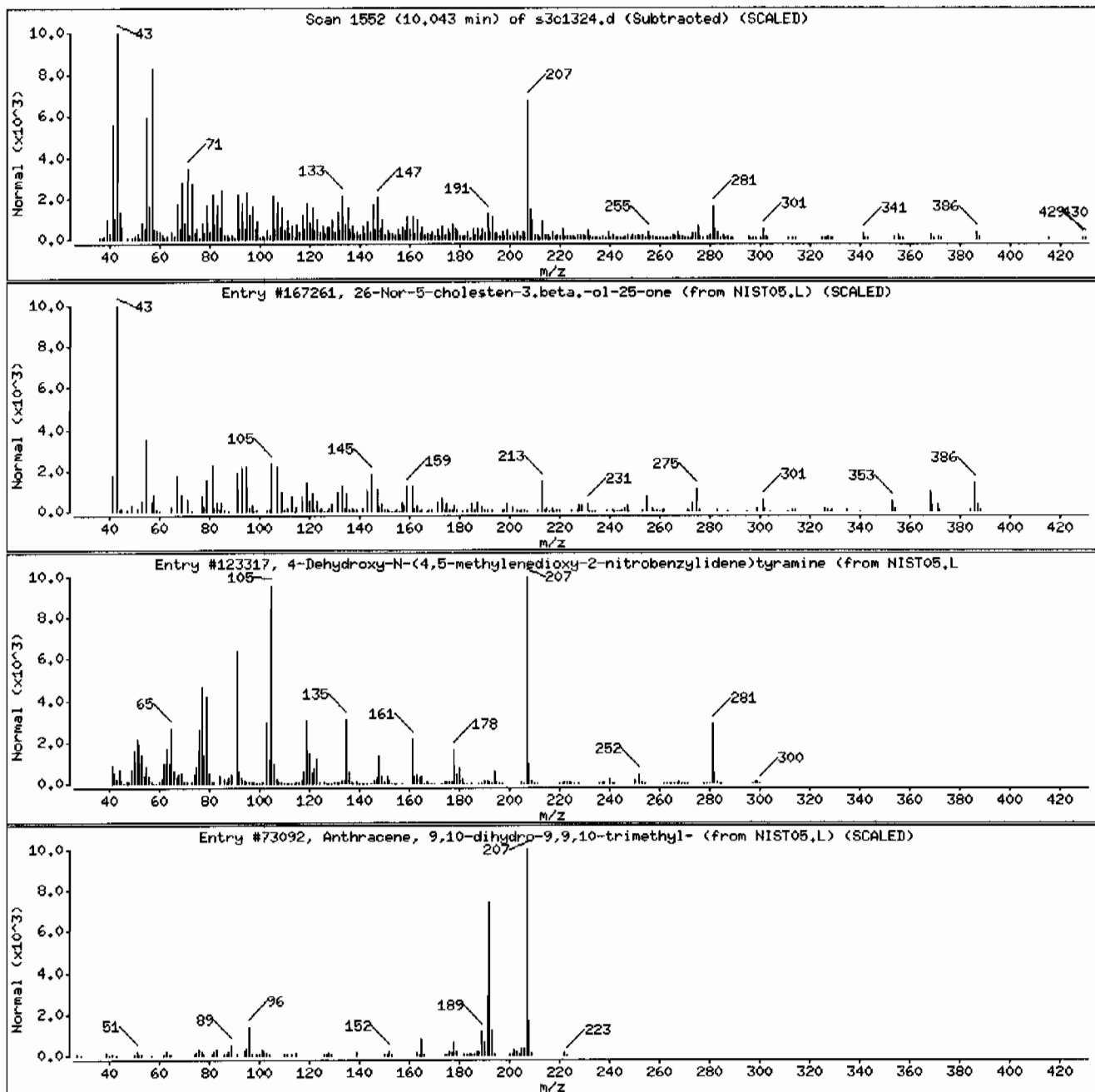
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
26-Nor-5-cholesten-3,β,α,α-ol-25-one	7494-34-0	NIST05.L	167261	91	C ₂₆ H ₄₂ O ₂	386
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitro	1000111-66-9	NIST05.L	123317	35	C ₁₆ H ₁₄ N ₂ O ₄	298
Anthracene, 9,10-dihydro-9,9,10-trimethy	14923-29-6	NIST05.L	73092	35	C ₁₇ H ₁₈	222



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF11ILANL

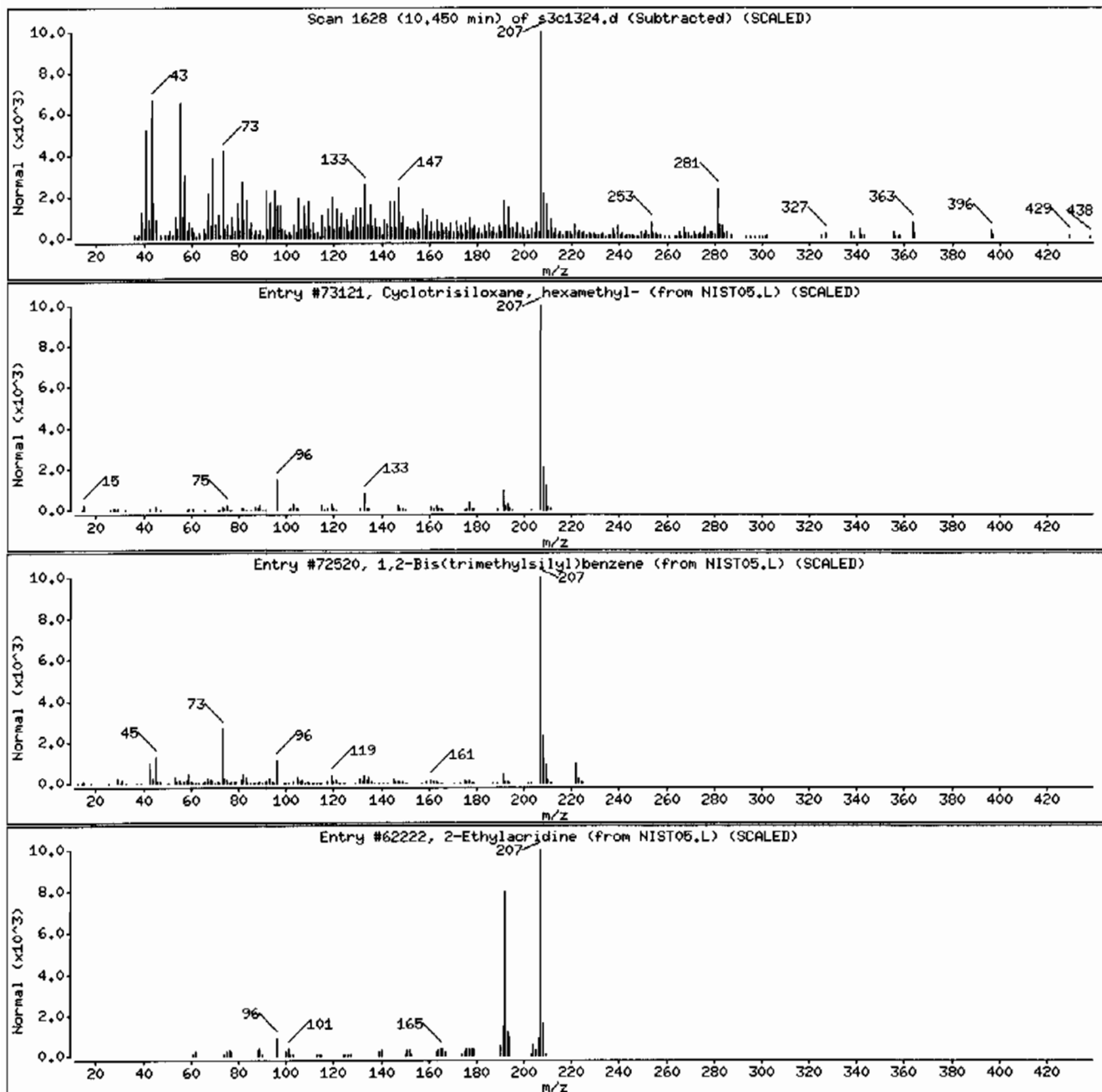
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73121	43	C ₆ H ₁₈ O ₃ Si ₃	222
1,2-Bis(trimethylsilyl)benzene	17151-09-6	NIST05.L	72520	43	C ₁₂ H ₂₂ Si ₂	222
2-Ethylacridine	55751-83-2	NIST05.L	62222	41	C ₁₅ H ₁₃ N	207



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVHF111LANL

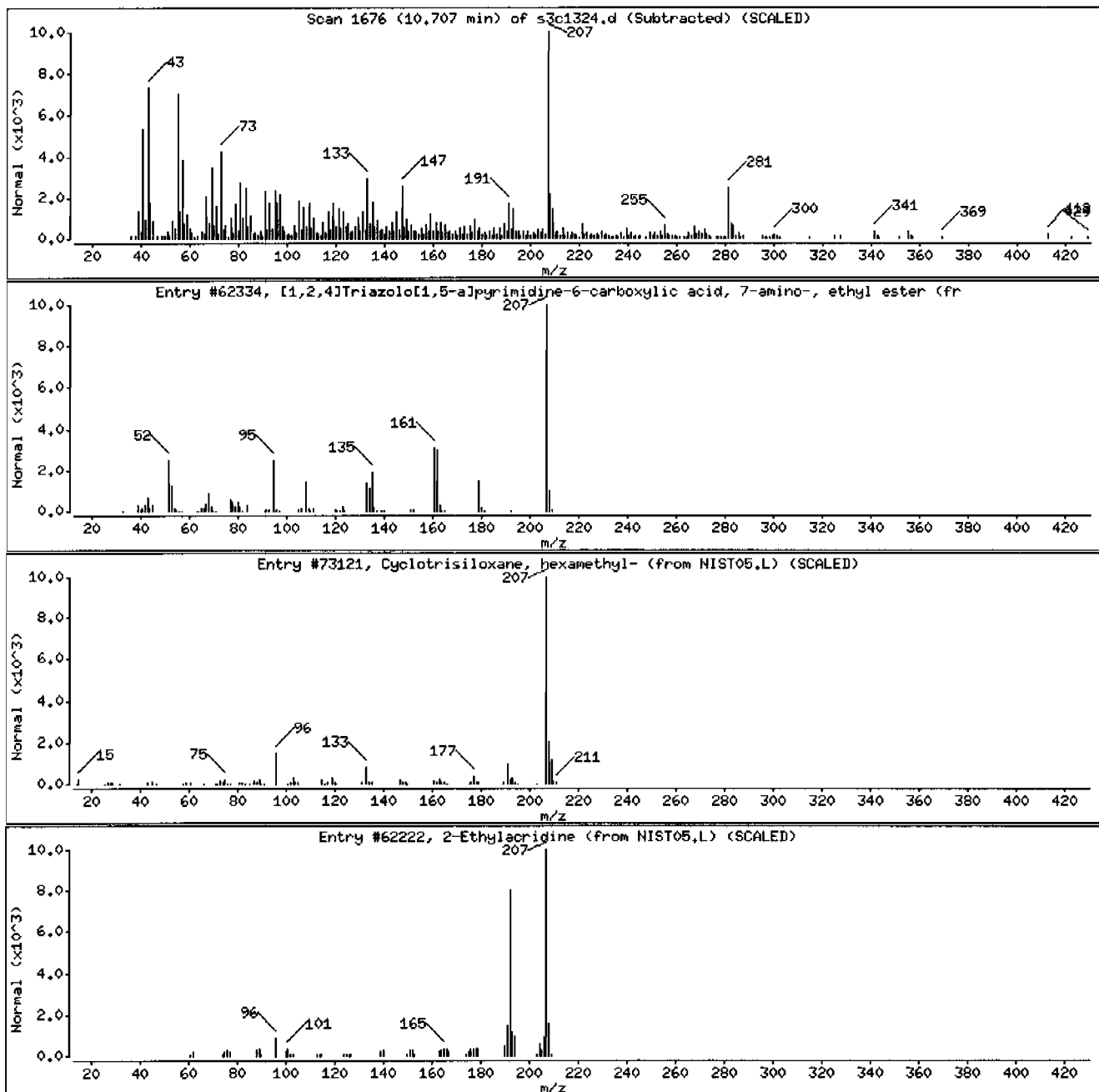
Volume Injected (uL): 0.5

Operator: JLD1

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]Triazolo[1,5-a]pyrimidine-6-carbo	1000316-75-8	NIST05.L	62334	43	C8H9N5O2	207
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73121	38	C6H18O3Si3	222
2-Ethylacridine	55751-83-2	NIST05.L	62222	38	C15H13N	207



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

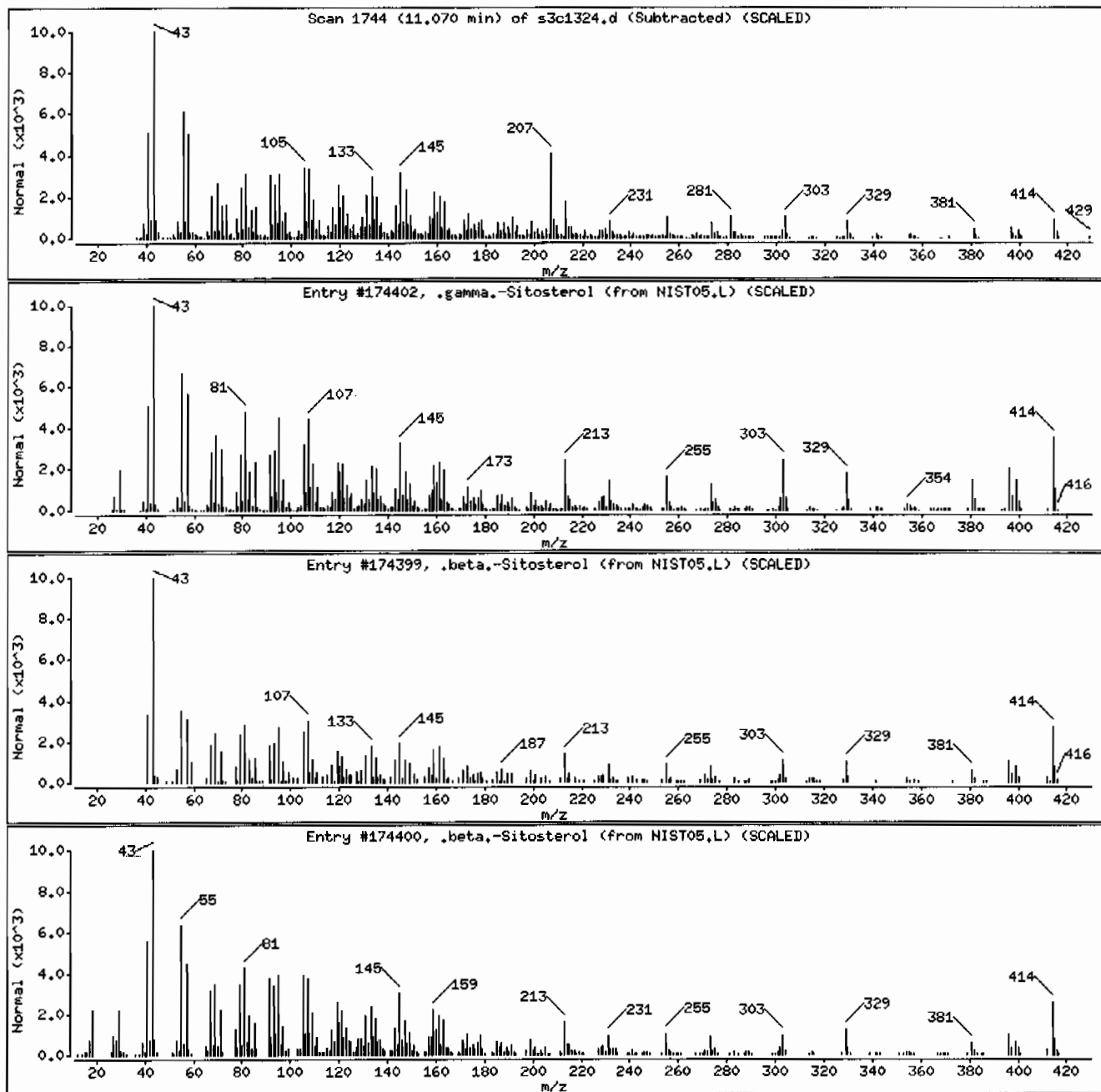
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	96	C29H50O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	95	C29H50O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174400	76	C29H50O	414



Date : 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: MSD3.i

Sample Info: 12481970131960459121SVMF111LANL

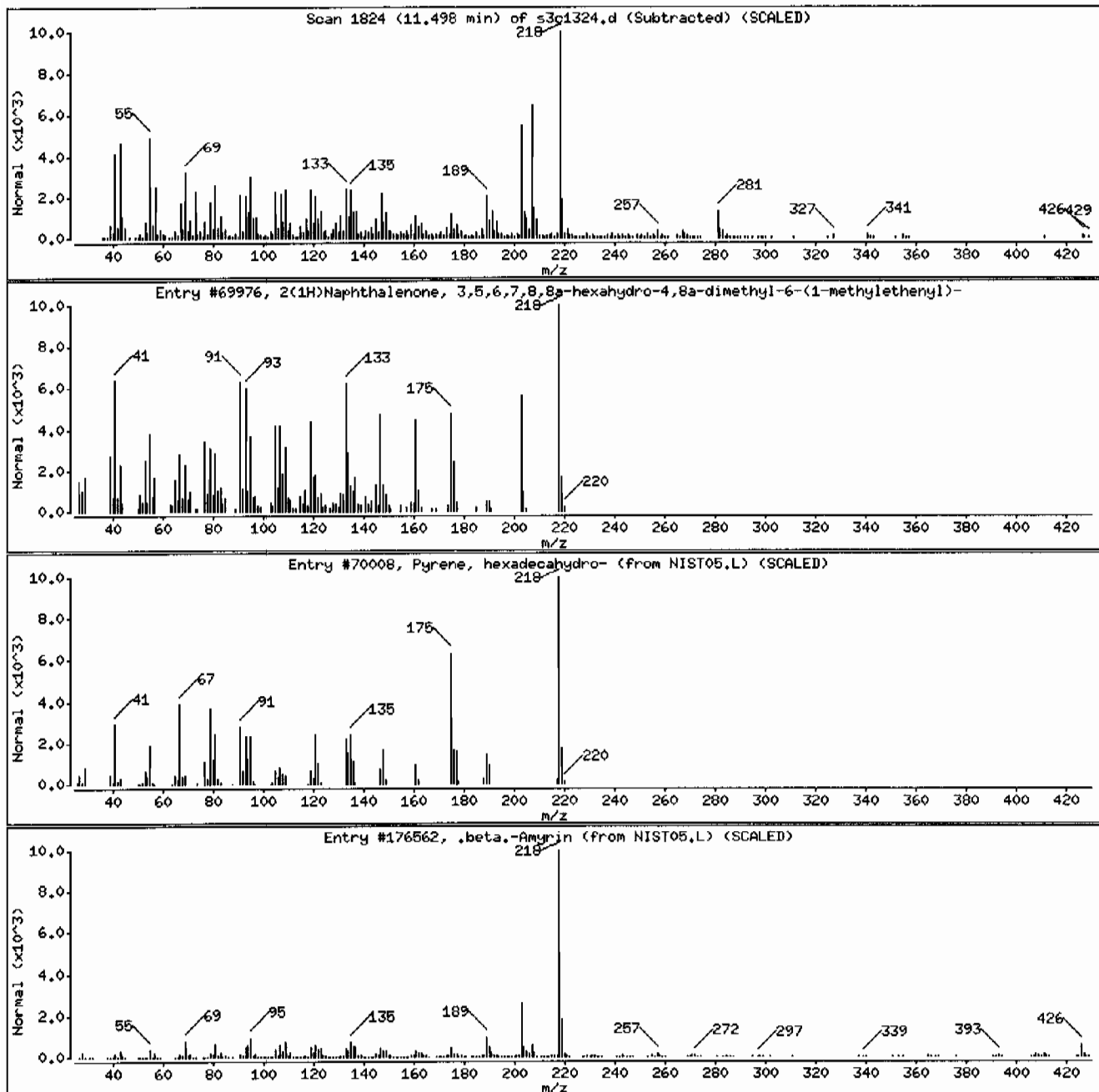
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	1000188-66-5	NIST05.L	69976	83	C15H22O	218
Pyrene, hexadecahydro-	2435-85-0	NIST05.L	70008	64	C16H26	218
.beta.-Amyrin	559-70-6	NIST05.L	176562	49	C30H50O	426



Date: 13-MAR-2010 18:32

Client ID: RE36-10-7433

Instrument: HSD3.i

Sample Info: 12481970131960459121SVMF11ILANL

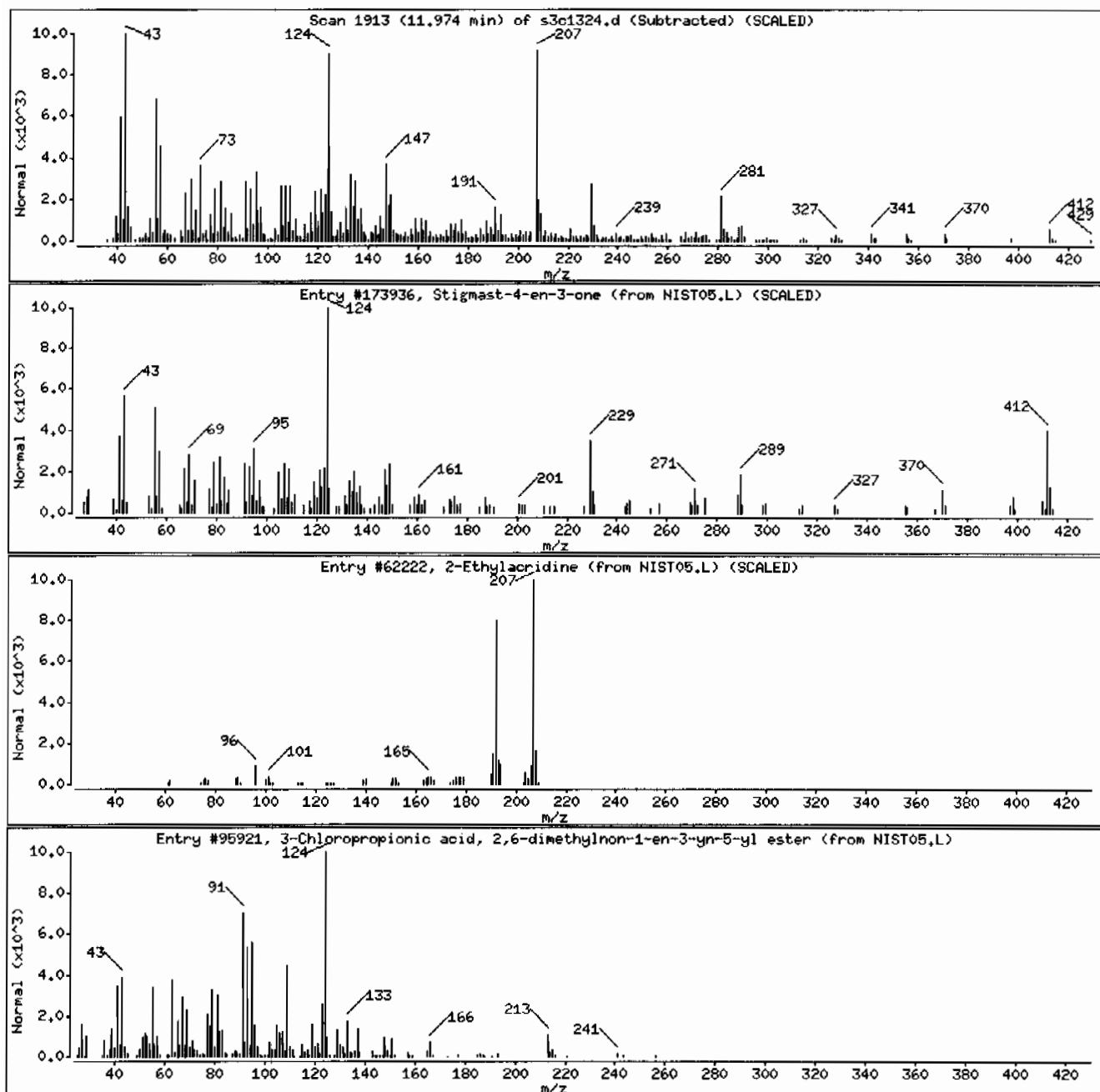
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmast-4-en-3-one	1058-61-3	NIST05.L	173936	84	C ₂₉ H ₄₈ O	412
2-Ethylacridine	55751-83-2	NIST05.L	62222	35	C ₁₅ H ₁₃ N	207
3-Chloropropionic acid, 2,6-dimethylnon-	1000299-21-8	NIST05.L	95921	35	C ₁₄ H ₂₁ ClO ₂	256



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197010	Date Received: 02/26/2010 08:45	% Moisture: 22.9
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7434	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/15/2010 19:04	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s3c1517.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	859	ug/kg	172	859
108-95-2	Phenol	U	859	ug/kg	172	859
95-57-8	2-Chlorophenol	U	859	ug/kg	172	859
106-46-7	1,4-Dichlorobenzene	U	859	ug/kg	172	859
621-64-7	N-Nitrosodipropylamine	U	859	ug/kg	172	859
59-50-7	4-Chloro-3-methylphenol	U	859	ug/kg	172	859
83-32-9	Acenaphthene	U	85.9	ug/kg	28.4	85.9
121-14-2	2,4-Dinitrotoluene	U	859	ug/kg	85.9	859
100-02-7	4-Nitrophenol	U	859	ug/kg	284	859
87-86-5	Pentachlorophenol	U	859	ug/kg	215	859
129-00-0	Pyrene		145	ug/kg	25.8	85.9
110-86-1	Pyridine	U	859	ug/kg	172	859
62-53-3	Aniline	U	859	ug/kg	258	859
111-44-4	bis(2-Chloroethyl) ether	U	859	ug/kg	172	859
541-73-1	1,3-Dichlorobenzene	U	859	ug/kg	172	859
100-51-6	Benzyl alcohol	U	859	ug/kg	258	859
95-50-1	1,2-Dichlorobenzene	U	859	ug/kg	172	859
108-60-1	bis(2-Chloroisopropyl)ether	U	859	ug/kg	172	859
95-48-7	o-Cresol	U	859	ug/kg	172	859
65794-96-9	m,p-Cresols	U	859	ug/kg	258	859
67-72-1	Hexachloroethane	U	859	ug/kg	172	859
98-95-3	Nitrobenzene	U	859	ug/kg	172	859
78-59-1	Isophorone	U	859	ug/kg	172	859
88-75-5	2-Nitrophenol	U	859	ug/kg	172	859
105-67-9	2,4-Dimethylphenol	U	859	ug/kg	301	859
111-91-1	bis(2-Chloroethoxy)methane	U	859	ug/kg	172	859
120-83-2	2,4-Dichlorophenol	U	859	ug/kg	172	859
65-85-0	Benzoic acid	J	1650	ug/kg	430	1720
91-20-3	Naphthalene	U	85.9	ug/kg	25.8	85.9
106-47-8	4-Chloroaniline	U	859	ug/kg	172	859
87-68-3	Hexachlorobutadiene	U	859	ug/kg	172	859
91-57-6	2-Methylnaphthalene	U	85.9	ug/kg	17.2	85.9
77-47-4	Hexachlorocyclopentadiene	U	859	ug/kg	172	859
88-06-2	2,4,6-Trichlorophenol	U	859	ug/kg	172	859
95-95-4	2,4,5-Trichlorophenol	U	859	ug/kg	172	859
91-58-7	2-Chloronaphthalene	U	85.9	ug/kg	28.4	85.9
88-74-4	2-Nitroaniline	U	859	ug/kg	172	859
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	859	ug/kg	172	859

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

SDG Number: 10-2121
Lab Sample ID: 248197010

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 22.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 2
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	859	ug/kg	172	859
606-20-2	2,6-Dinitrotoluene	U	859	ug/kg	85.9	859
208-96-8	Acenaphthylene	U	85.9	ug/kg	25.8	85.9
51-28-5	2,4-Dinitrophenol	U	1720	ug/kg	327	1720
132-64-9	Dibenzofuran	U	859	ug/kg	172	859
84-66-2	Diethylphthalate	U	859	ug/kg	172	859
86-73-7	Fluorene	U	85.9	ug/kg	25.8	85.9
7005-72-3	4-Chlorophenylphenylether	U	859	ug/kg	172	859
534-52-1	2-Methyl-4,6-dinitrophenol	U	859	ug/kg	172	859
100-01-6	4-Nitroaniline	U	859	ug/kg	258	859
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	859	ug/kg	172	859
122-66-7	Azobenzene	U	859	ug/kg	172	859
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	859	ug/kg	172	859
118-74-1	Hexachlorobenzene	U	859	ug/kg	172	859
85-01-8	Phenanthrene		118	ug/kg	25.8	85.9
120-12-7	Anthracene	U	85.9	ug/kg	17.2	85.9
84-74-2	Di-n-butylphthalate	U	859	ug/kg	172	859
206-44-0	Fluoranthene		149	ug/kg	25.8	85.9
85-68-7	Butylbenzylphthalate	U	859	ug/kg	172	859
56-55-3	Benzo(a)anthracene	J	79.3	ug/kg	25.8	85.9
91-94-1	3,3'-Dichlorobenzidine	U	859	ug/kg	258	859
218-01-9	Chrysene	J	65.3	ug/kg	25.8	85.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	859	ug/kg	172	859
117-84-0	Di-n-octylphthalate	U	859	ug/kg	172	859
205-99-2	Benzo(b)fluoranthene		119	ug/kg	25.8	85.9
207-08-9	Benzo(k)fluoranthene	U	85.9	ug/kg	25.8	85.9
50-32-8	Benzo(a)pyrene	J	61.0	ug/kg	25.8	85.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	33.7	ug/kg	25.8	85.9
53-70-3	Dibenzo(a,h)anthracene	U	85.9	ug/kg	25.8	85.9
191-24-2	Benzo(ghi)perylene	J	37.4	ug/kg	25.8	85.9
120-82-1	1,2,4-Trichlorobenzene	U	859	ug/kg	172	859

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.83	1510	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.37	522	ug/kg	97	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197010	Date Received: 02/26/2010 08:45	%Moisture: 22.9
Client ID: RE36-10-7434	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/15/2010 19:04	Inst: MSD3.I	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1517.d	Aliquot: 30.17 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			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Fit	Qual
112-95-8	Unknown	7.89	691	ug/kg		J
	Unknown	8.39	451	ug/kg		J
	Unknown	8.5	349	ug/kg		J
	Unknown	8.9	473	ug/kg		J
	Unknown	8.93	677	ug/kg		J
	Eicosane	9.03	624	ug/kg	96	NJ
	Unknown	9.75	406	ug/kg		J
	Unknown	12.23	555	ug/kg		J

Data File: /chem/MSD3.i/s031510.b/s3c1517.d
Report Date: 16-Mar-2010 09:52

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031510.b/s3c1517.d
Lab Smp Id: 248197010 Client Smp ID: RE36-10-7434
Inj Date : 15-MAR-2010 19:04
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197010|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m
Meth Date : 16-Mar-2010 09:03 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 11
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	22.86970	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.545	3.548	(1.000)	525412	40.0000	
* 29 Naphthalene-d8	136	4.401	4.404	(1.000)	2018406	40.0000	
* 46 Acenaphthene-d10	164	5.641	5.645	(1.000)	1062421	40.0000	
* 67 Phenanthrene-d10	188	6.663	6.661	(1.000)	1719003	40.0000	
* 91 Chrysene-d12	240	8.252	8.255	(1.000)	1064764	40.0000	
* 98 Perylene-d12	264	9.466	9.469	(1.000)	709450	40.0000	
\$ 3 2-Fluorophenol	112	2.758	2.751	(0.778)	377763	31.9932	2750
\$ 5 Phenol-d5	99	3.277	3.276	(0.925)	439866	31.7089	2720
\$ 20 Nitrobenzene-d5	82	3.903	3.912	(0.887)	201069	17.4988	1500
\$ 39 2-Fluorobiphenyl	172	5.144	5.148	(0.912)	421996	15.6120	1340
\$ 60 2,4,6-Tribromophenol	329	6.198	6.201	(1.099)	68152	27.9773	2400
\$ 81 p-Terphenyl-d14	244	7.594	7.592	(0.920)	326573	19.7871	1700

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.529	7.533	(0.912)	52182	1.69251	145
27 Benzoic acid	105	4.160	4.201	(0.945)	25352	19.2070	1650 (a)
68 Phenanthrene	178	6.674	6.677	(1.002)	53662	1.37809	118
76 Fluoranthene	202	7.396	7.399	(1.110)	61002	1.72953	149
89 Benzo(a)anthracene	228	8.241	8.244	(0.999)	22825	0.92305	79.3 (a)
92 Chrysene	228	8.268	8.271	(1.002)	19219	0.76014	65.3 (a)
95 Benzo(b)fluoranthene	252	9.081	9.084	(0.959)	25007	1.38869	119
97 Benzo(a)pyrene	252	9.407	9.410	(0.994)	10986	0.71017	61.0 (a)
99 Indeno(1,2,3-cd)pyrene	276	10.787	10.801	(1.140)	5224	0.39165	33.7 (a)
101 Benzo(ghi)perylene	276	11.199	11.213	(1.183)	4762	0.43458	37.4 (a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1517.d

Report Date: 03/16/2010 09:44

Lab. ID: 248197010

SampleType: SAMPLE

Injection Date: 15-MAR-2010 19:04

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197010|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
1 N-Methyl-N-nitrosomethylamine				CAS#: 62-75-9		
74	27301	1.84	2.09	80-120	100	(T)
42	8711	1.84	2.09	131-191	32	(QT)
43	76067	1.84	2.09	39- 99	279	(QT)

4 Aniline				CAS#: 62-53-3		
66	26110	3.28	3.34	80-120	100	(T)
93	7706	3.32	3.34	231-291	30	(Q)

17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	30180	3.90	3.79	80-120	100	(T)
42	27275	3.90	3.79	81-141	90	(T)

22 Isophorone				CAS#: 78-59-1		
82	204906	3.90	4.08	80-120	100	(T)
138	121	3.83	4.08	0- 55	0	(T)

27 Benzoic acid				CAS#: 65-85-0		
105	25352	4.16	4.20	80-120	100	()
122	20928	4.16	4.20	59-119	83	()
77	16933	4.16	4.20	37- 97	67	()

43 Dimethylphthalate				CAS#: 131-11-3		
163	191092	5.64	5.43	80-120	100	(T)
164	1063121	5.64	5.43	0- 40	556	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	138814	5.64	5.48	80-120	100	(T)
63	1975	5.64	5.48	53-113	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	138814	5.64	5.77	80-120	100	(T)
89	2251	5.64	5.77	50-110	2	(QT)
63	1975	5.64	5.77	25- 85	1	(QT)

52 4-Nitrophenol				CAS#: 100-02-7		
139	1277	5.79	5.70	80-120	100	(T)
109	421	5.81	5.70	44-104	33	(QT)
65	116	5.81	5.70	63-123	9	(QT)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	354	6.20	6.06	80-120	100	(T)
105	1140	6.20	6.06	16- 76	321	(QT)
51	1037	6.19	6.06	53-113	292	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	301	6.05	6.04	80-120	100	()
108	258	6.05	6.05	48-108	86	()
92	177	6.01	6.05	9- 69	59	()

68 Phenanthrene				CAS#: 85-01-8		
178	53662	6.67	6.68	80-120	100	()
179	9852	6.67	6.68	0- 46	18	()
176	10173	6.67	6.68	0- 50	19	()

69 Anthracene				CAS#: 120-12-7		
178	53662	6.67	6.71	80-120	100	()
179	9852	6.67	6.71	0- 46	18	()
176	10173	6.67	6.71	0- 49	19	()

76 Fluoranthene				CAS#: 206-44-0		
202	61002	7.40	7.40	80-120	100	()
203	10640	7.40	7.40	0- 48	17	()
101	8108	7.40	7.40	0- 43	13	()

79 Pyrene				CAS#: 129-00-0		
202	52182	7.53	7.53	80-120	100	()
200	10021	7.53	7.53	0- 51	19	()
101	9013	7.53	7.53	0- 45	17	()

89 Benzo(a)anthracene				CAS#: 56-55-3		
228	22825	8.24	8.24	80-120	100	()
226	4559	8.24	8.24	0- 57	20	()
229	5753	8.25	8.24	0- 50	25	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
92 Chrysene		CAS#: 218-01-9				
228	19219	8.27	8.27	80-120	100	()
229	4143	8.27	8.27	0- 50	22	()
226	6291	8.27	8.27	0- 60	33	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	25007	9.08	9.08	80-120	100	()
253	5552	9.08	9.08	0- 52	22	()
125	4633	9.08	9.08	0- 47	19	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	25007	9.08	9.11	80-120	100	()
253	5552	9.08	9.11	0- 52	22	()
125	4624	9.08	9.11	0- 45	18	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	10986	9.41	9.41	80-120	100	()
253	2290	9.41	9.41	0- 51	21	()
125	1512	9.40	9.41	0- 48	14	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	5224	10.79	10.80	80-120	100	()
138	1865	10.78	10.80	15- 75	36	()

101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	4762	11.20	11.21	80-120	100	()
138	2248	11.20	11.21	9- 69	47	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031510.b/s3c1517.d
Lab Smp Id: 248197010 Client Smp ID: RE36-10-7434
Inj Date : 15-MAR-2010 19:04
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197010|960459|2|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m
Meth Date : 16-Mar-2010 09:03 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 11
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	22.86970	% moisture

Cpnd Variable

Local Compound Variable

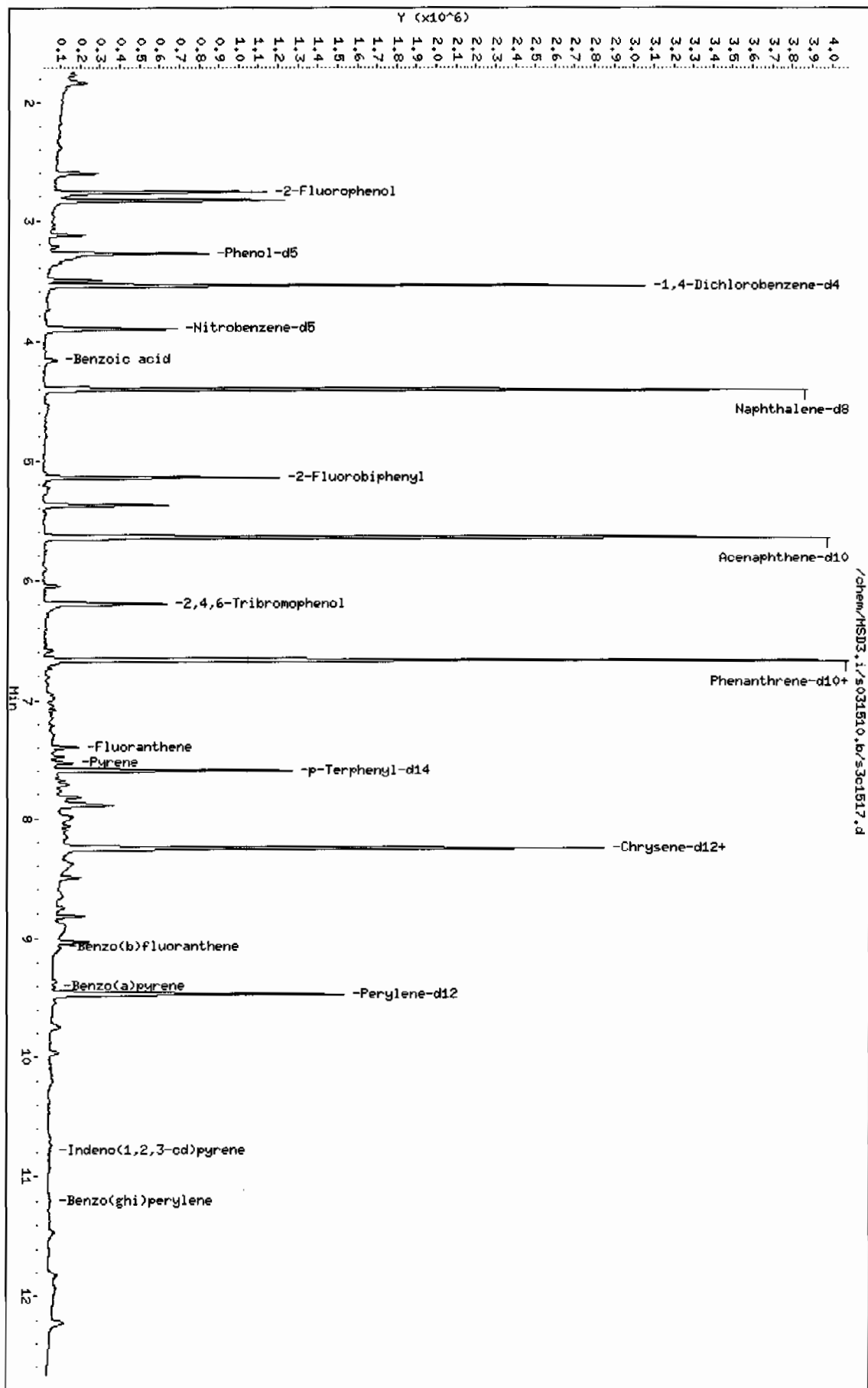
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.545	3276542	40.000
* 46 Acenaphthene-d10	5.641	4607795	40.000
* 91 Chrysene-d12	8.252	4029299	40.000
* 98 Perylene-d12	9.466	2297601	40.000

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				CAS #:			
2.828	1442693	17.6123771	1510	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim				CAS #: 475-20-7			
5.374	700035	6.07696296	522	97	NIST05.L	60018	46
Unknown				CAS #:			
7.893	809488	8.03601935	691	0		0	91
Unknown				CAS #:			
8.385	528620	5.24776446	451	0		0	91
Unknown				CAS #:			
8.498	408565	4.05594325	348	0		0	91
Unknown				CAS #:			
8.899	316100	5.50312499	473	0		0	98
Unknown				CAS #:			
8.925	452445	7.87682103	677	0		0	98
Eicosane				CAS #: 112-95-8			
9.032	416900	7.25801021	624	96	NIST05.L	113490	98
Unknown				CAS #:			
9.749	271422	4.72530924	406	0		0	98
Unknown				CAS #:			
12.226	370713	6.45391502	555	0		0	98

Data File: /chem/MSD3.i/s031510.b/s3c1517.d
 Date: 15-MAR-2010 19:04
 Client ID: RE36-10-7434
 Sample Info: 12481970101960459121SVHF111LNL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD3.1
 Operator: JLD1
 Column diameter: 0.20



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVHF11ILANL

Volume Injected (uL): 0.5

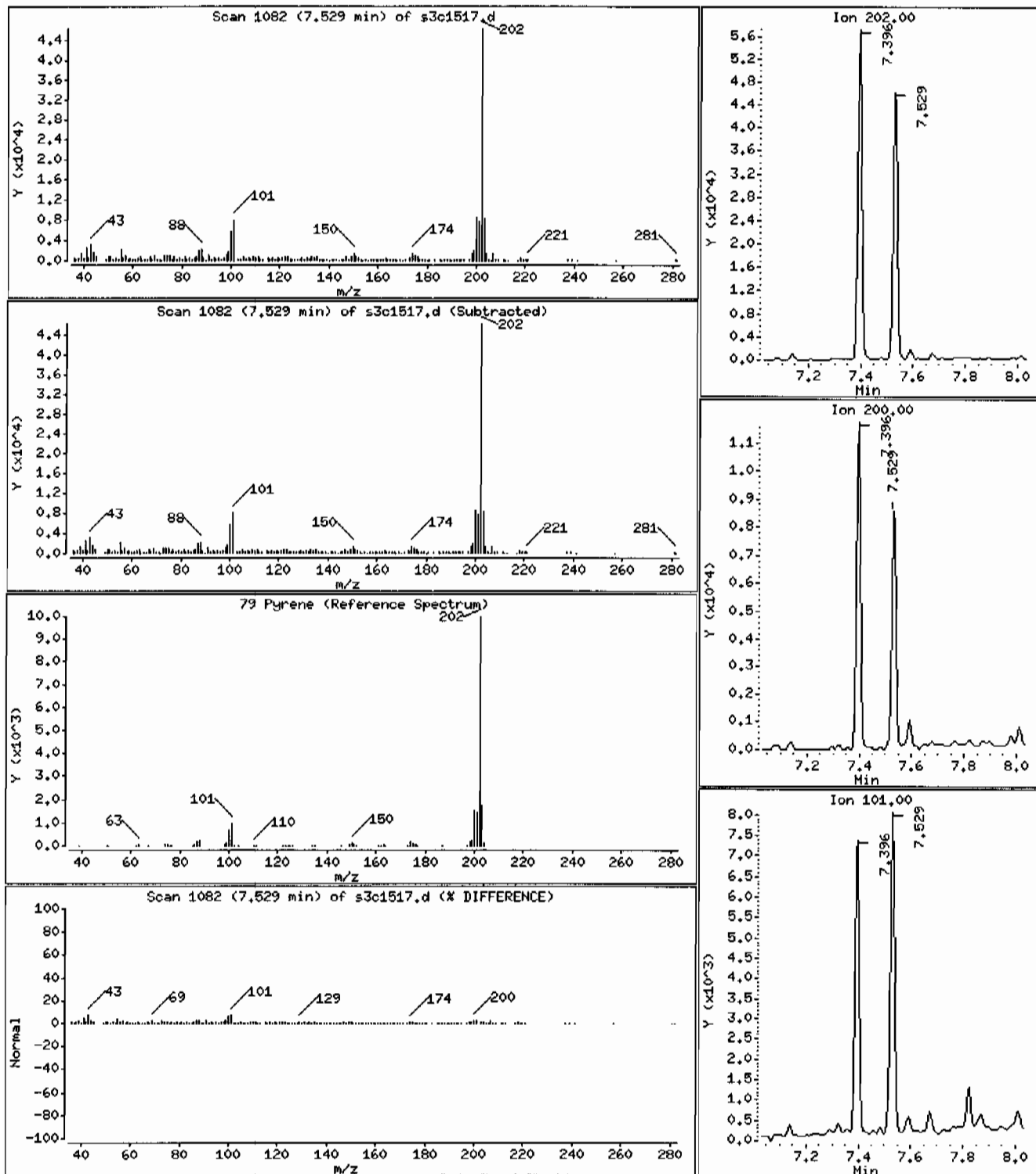
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 145 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVHF11ILANL

Volume Injected (uL): 0.8

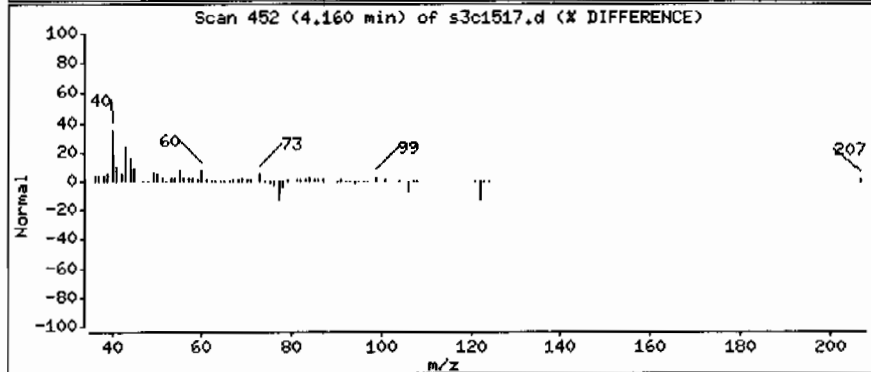
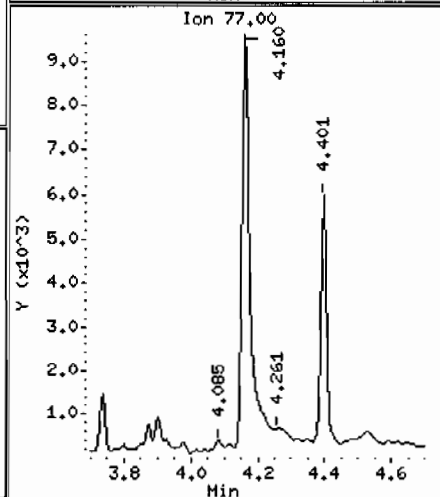
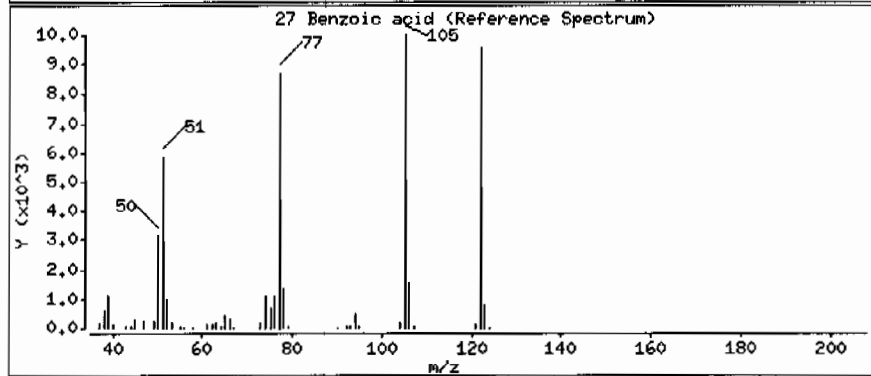
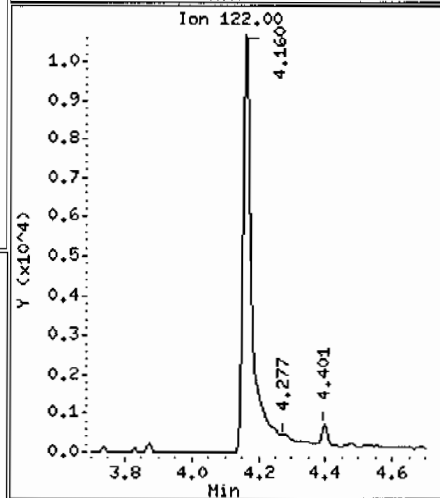
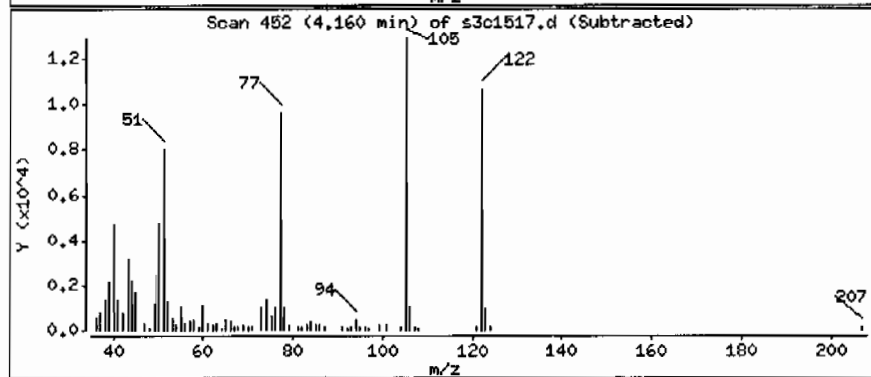
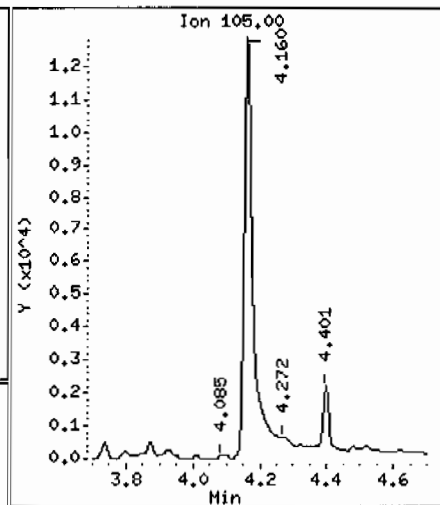
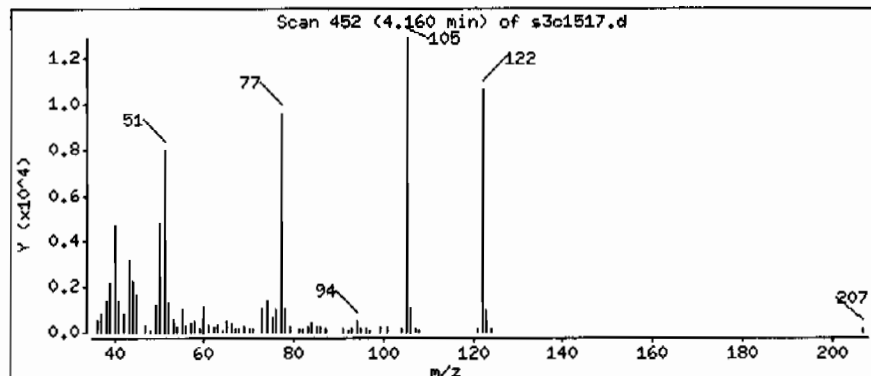
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

27 Benzoic acid

Concentration: 1650 ug/Kg



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 1248197010196045912ISVMF111LANL

Volume Injected (uL): 0.5

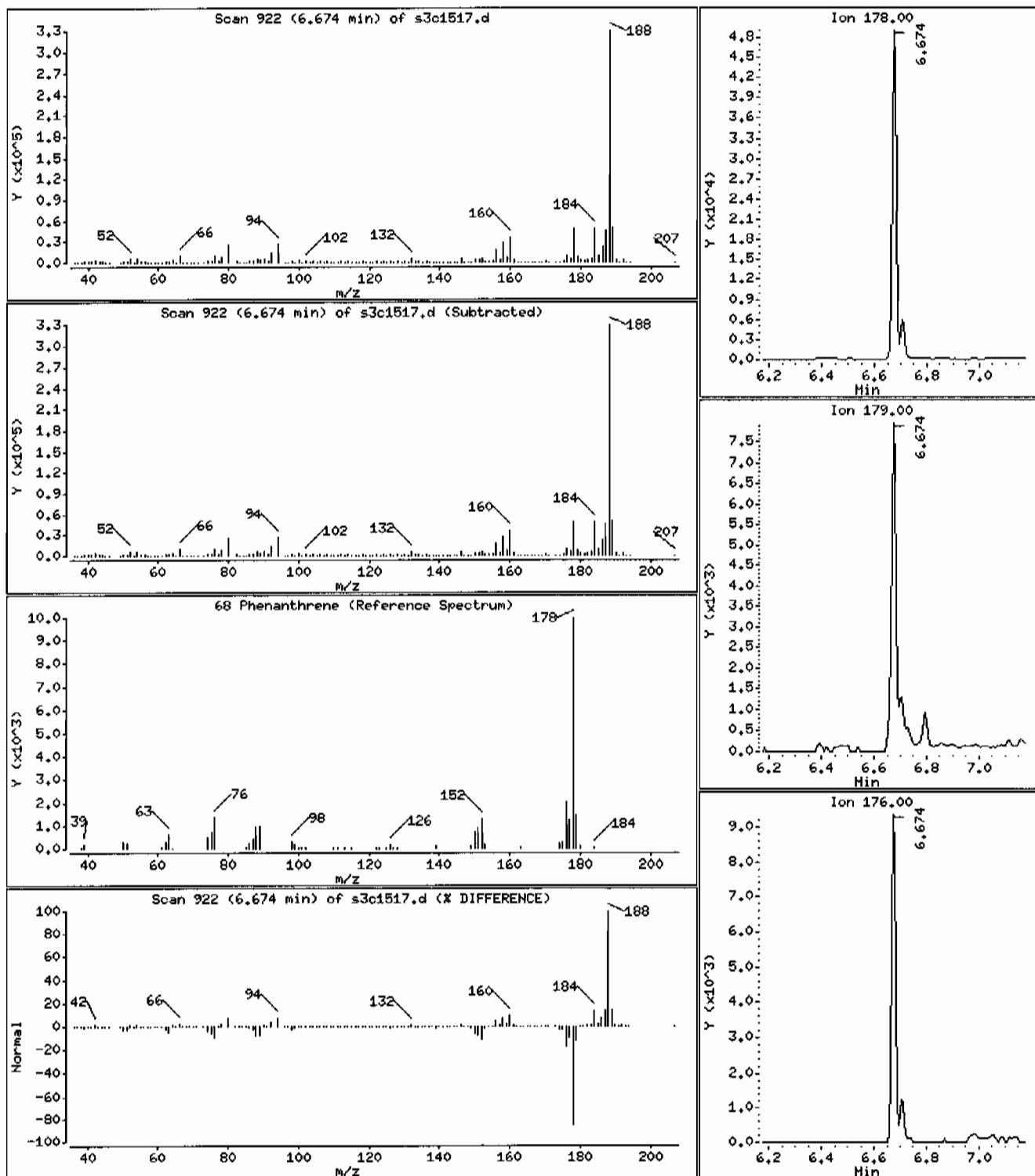
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 118 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVMF111LANL

Volume Injected (uL): 0.5

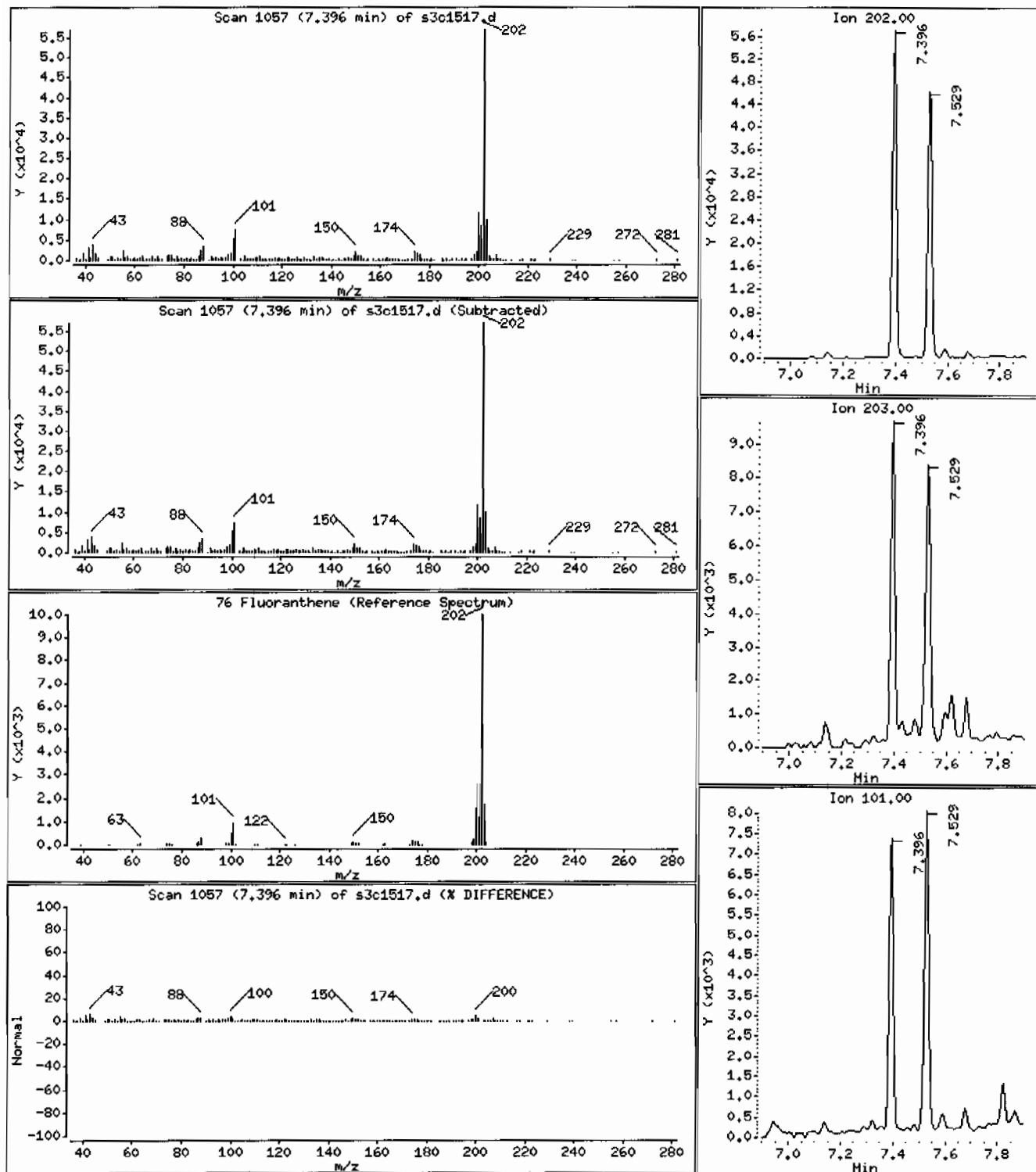
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 149 ug/Kg



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVMF111LANL

Volume Injected (uL): 0.5

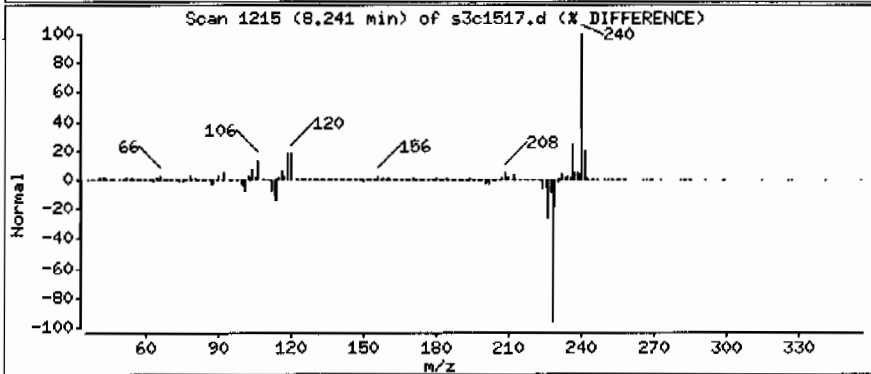
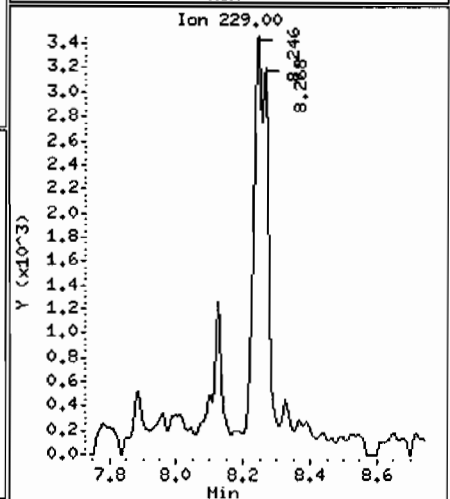
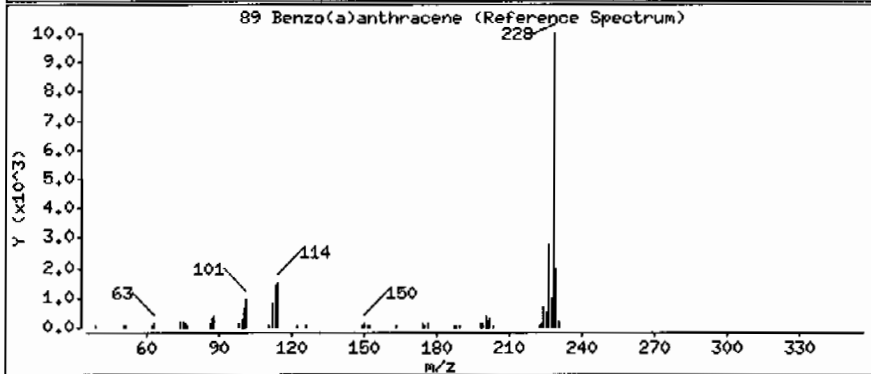
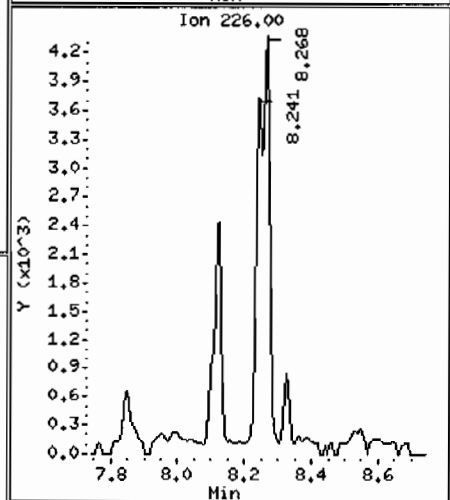
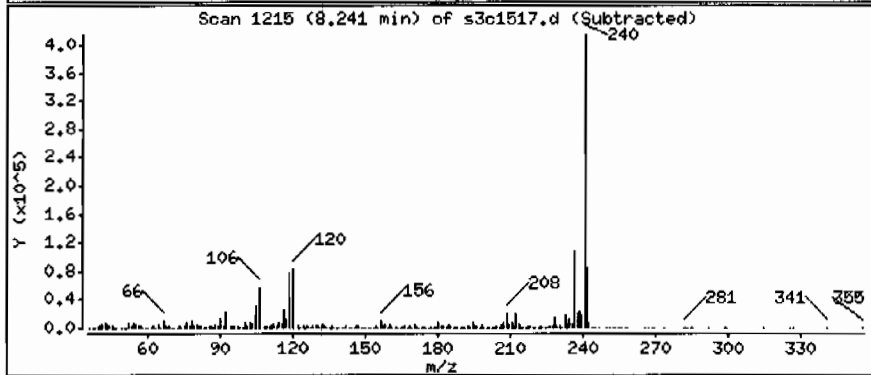
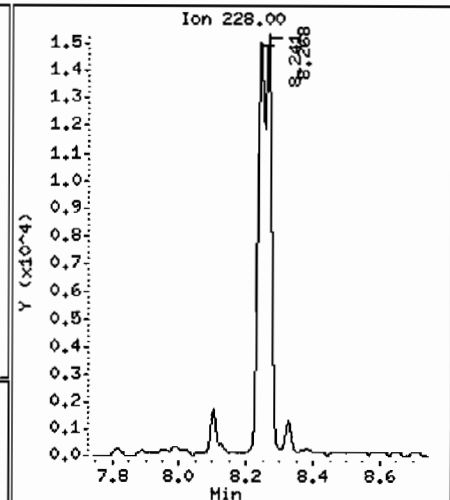
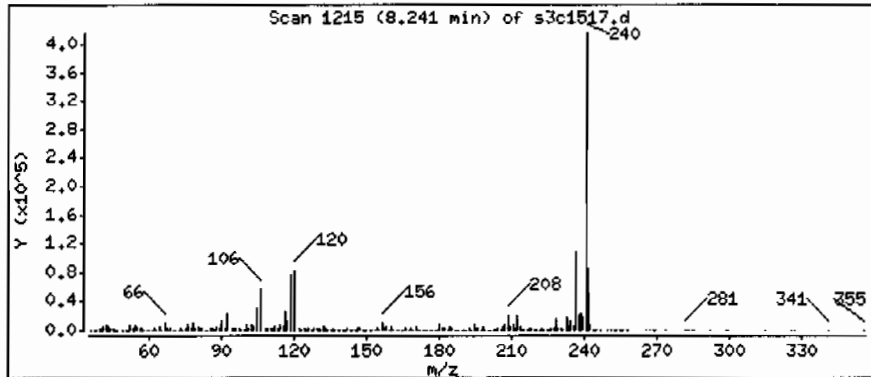
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 79.3 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVHF11ILANL

Volume Injected (uL): 0.5

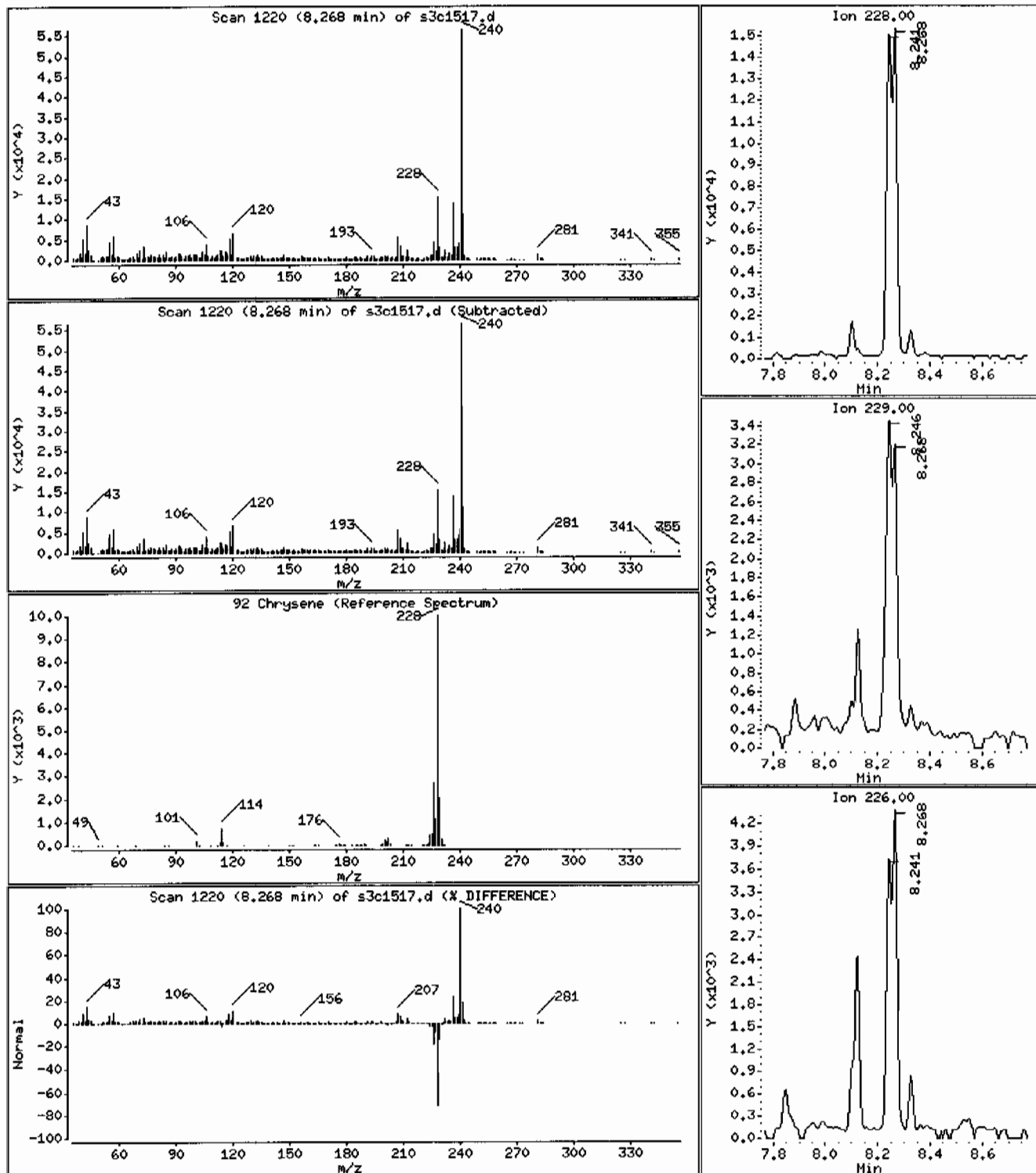
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 65.3 ug/Kg



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVMF11ILANL

Volume Injected (uL): 0.5

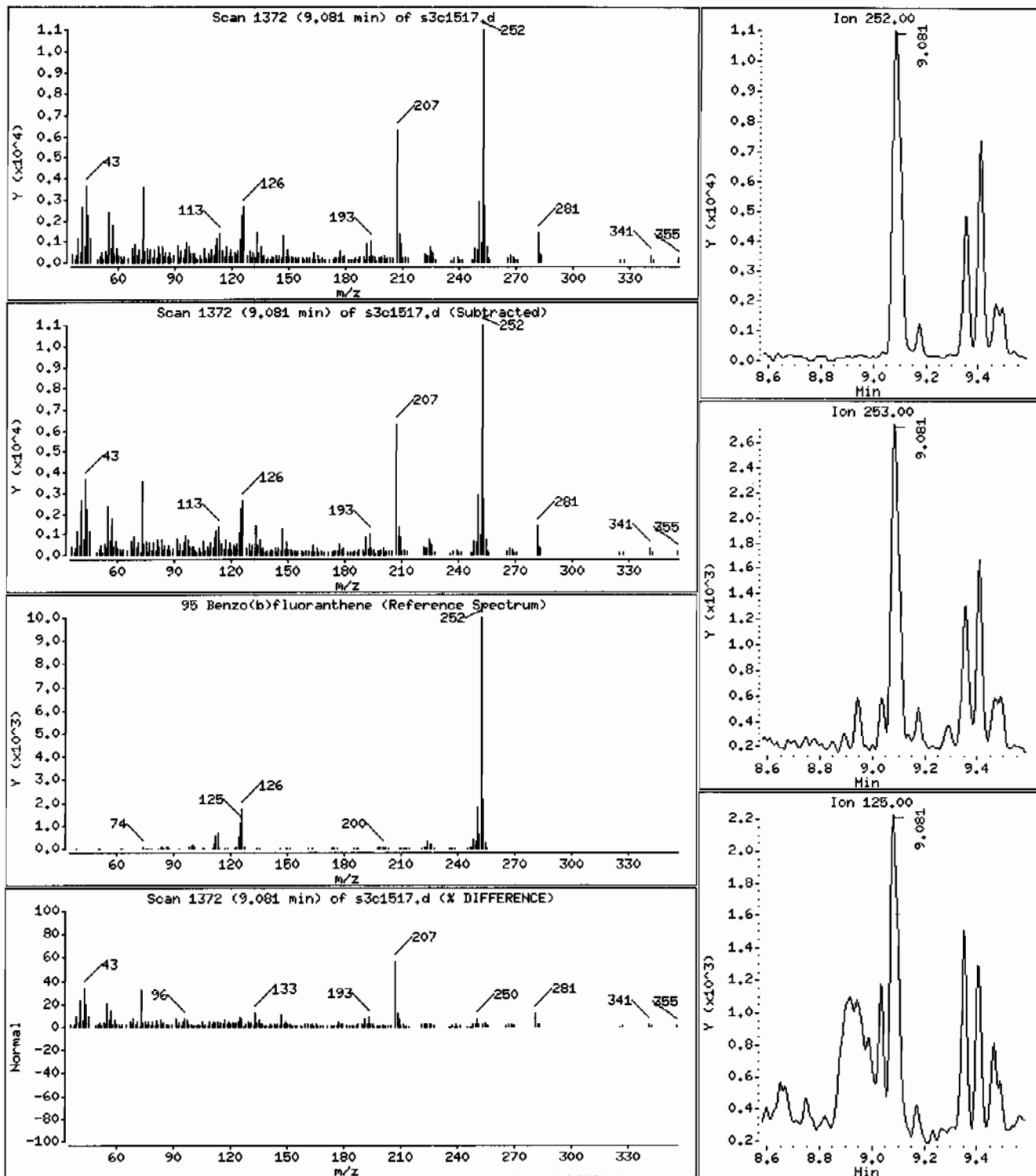
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 119 ug/Kg



Data File: /chem/HSD3.i/s031510.b/s3c1517.d

Page 9

Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 1248197010196045912ISVHF11ILANL

Volume Injected (uL): 0,5

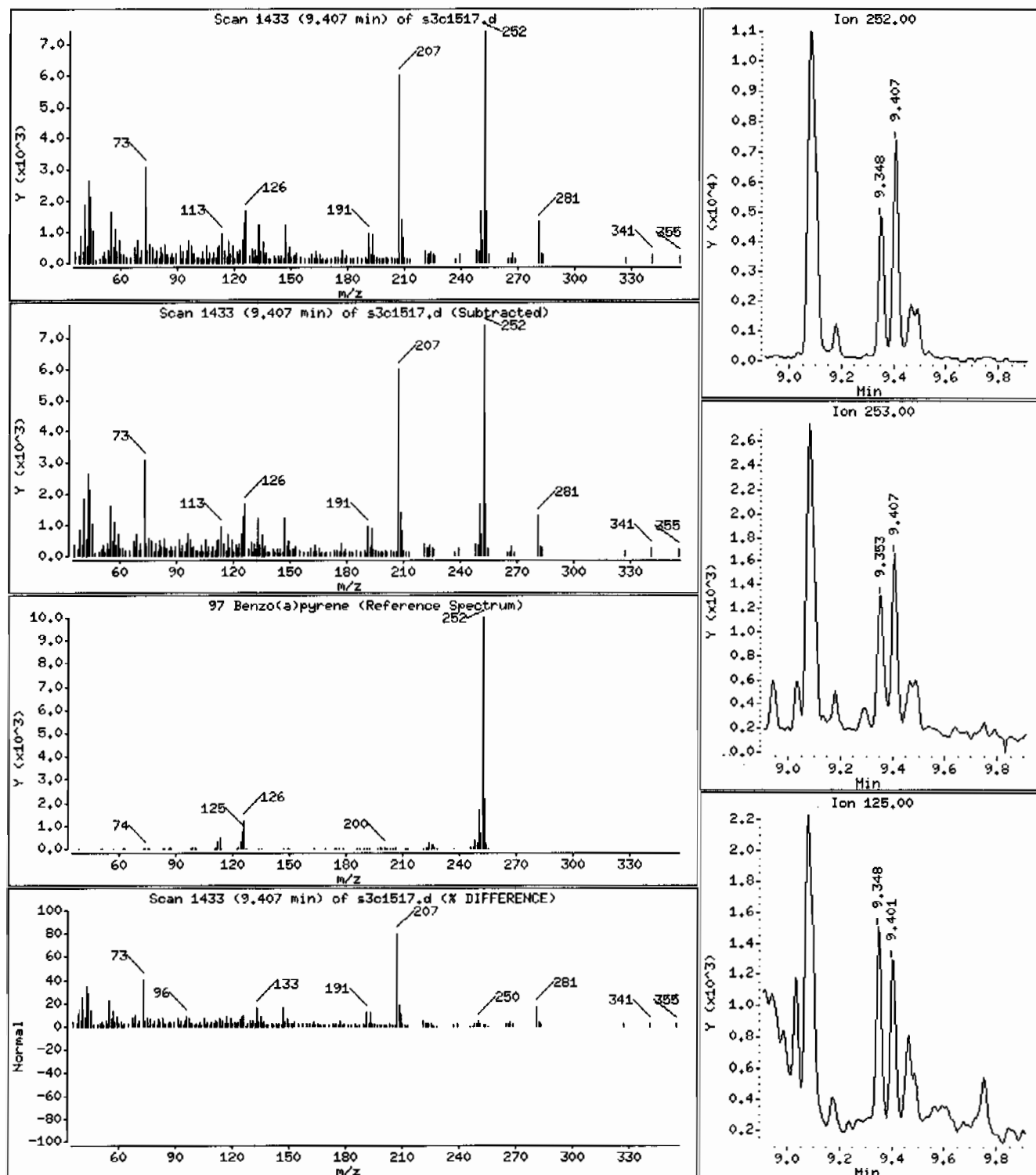
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0,20

97 Benzo(a)pyrene

Concentration: 61,0 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 1248197010196045912ISVHF11ILANL

Volume Injected (uL): 0.5

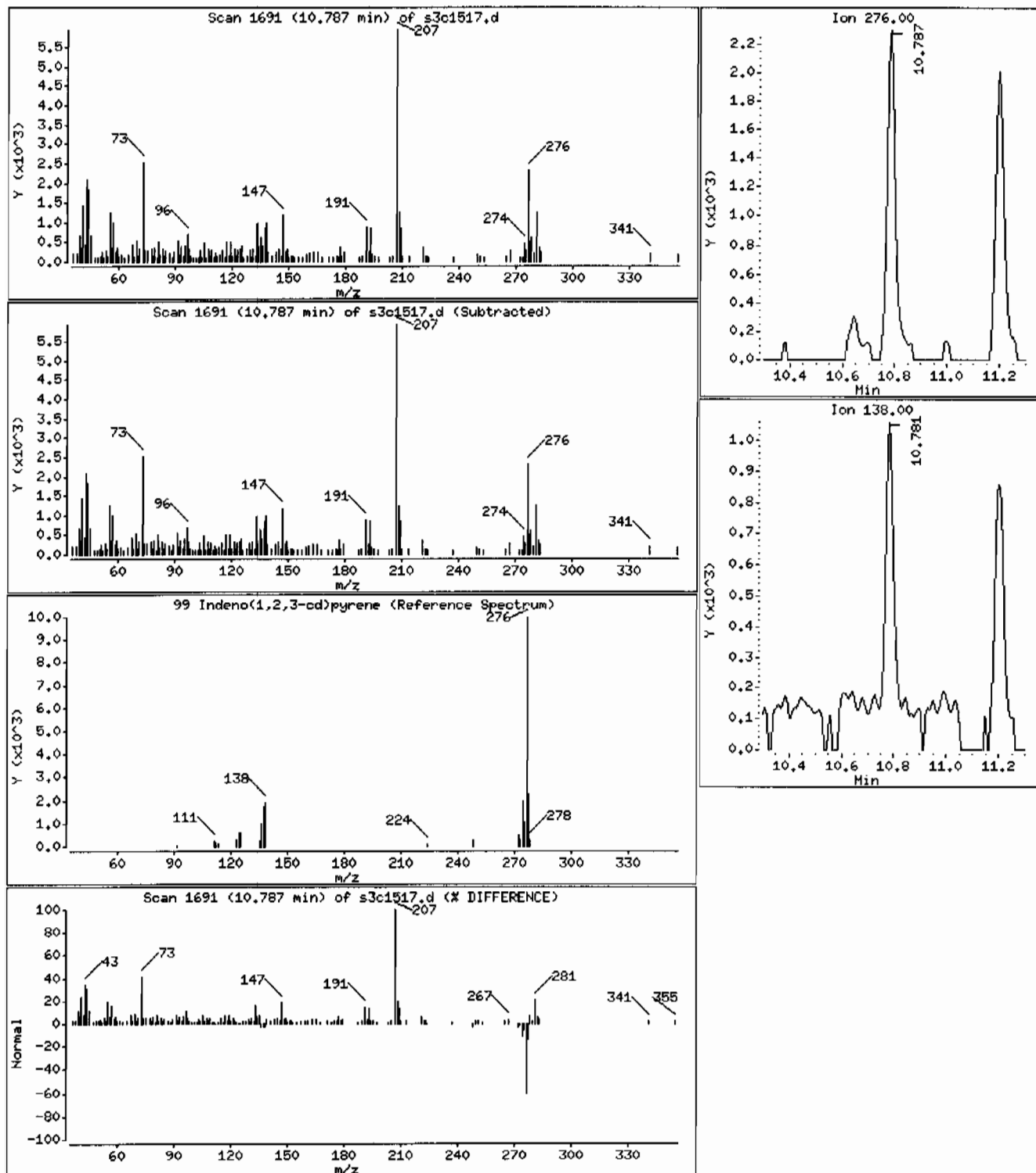
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 33.7 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVHF11ILANL

Volume Injected (uL): 0.5

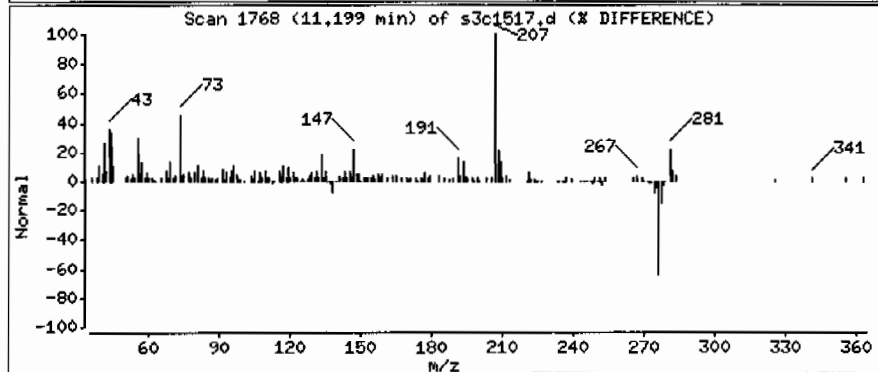
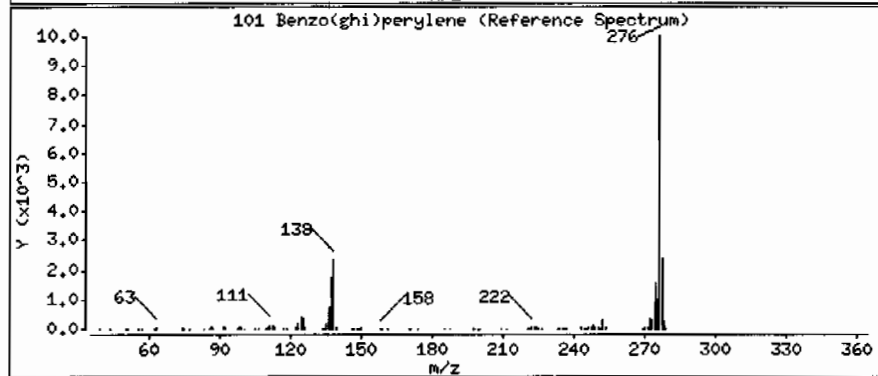
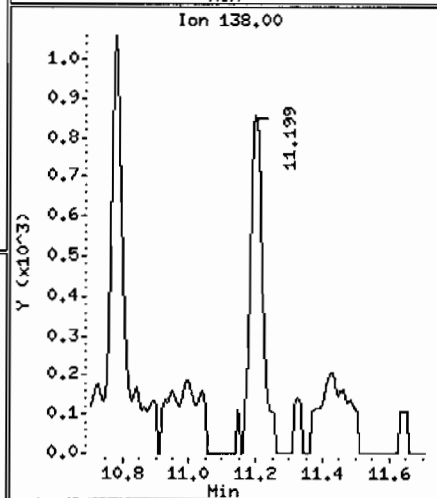
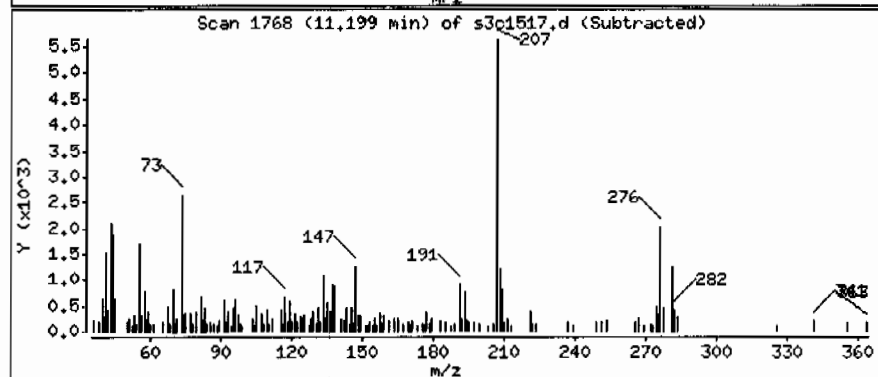
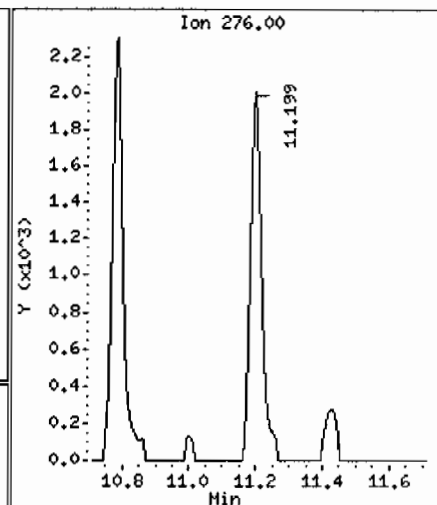
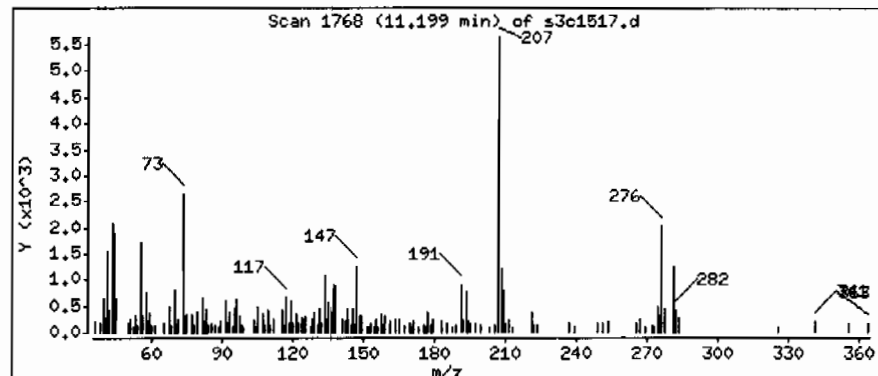
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 37.4 ug/Kg



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 1248197010196045912ISVMF11ILANL

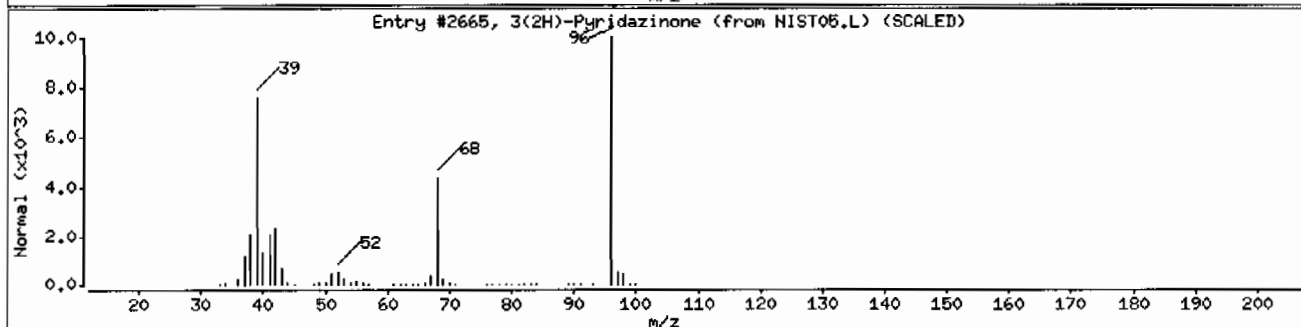
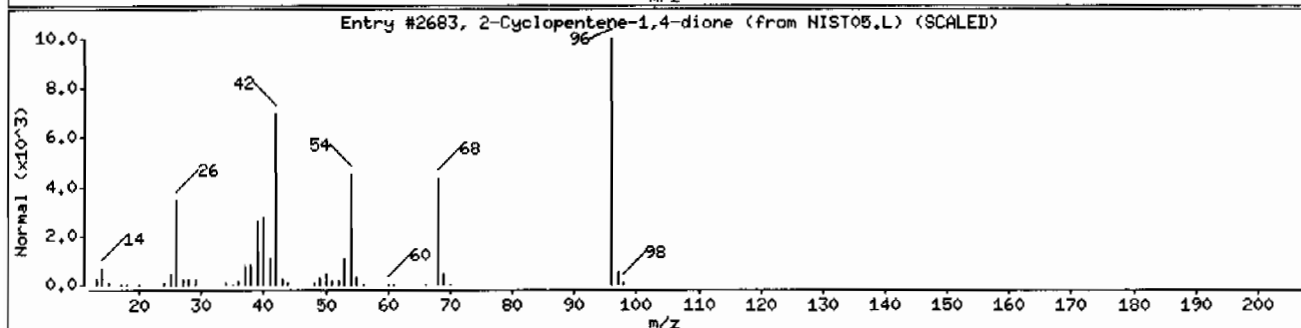
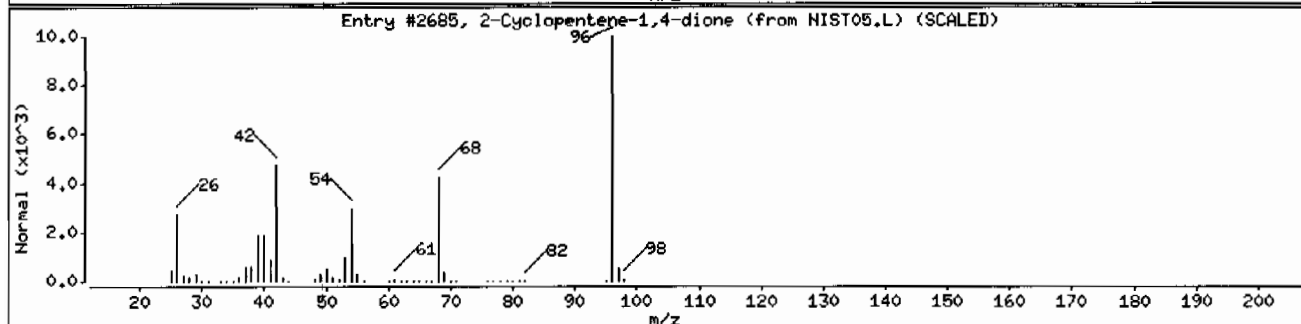
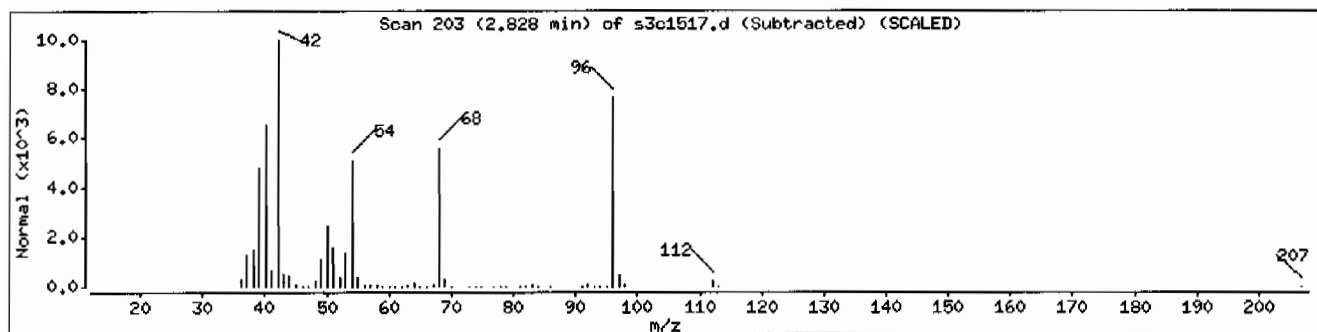
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Cyclopentene-1,4-dione	930-60-9	NIST05.L	2685	53	C5H4O2	96
2-Cyclopentene-1,4-dione	930-60-9	NIST05.L	2683	47	C5H4O2	96
3(2H)-Pyridazinone	504-30-3	NIST05.L	2665	46	C4H4N2O	96



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVMF111LANL

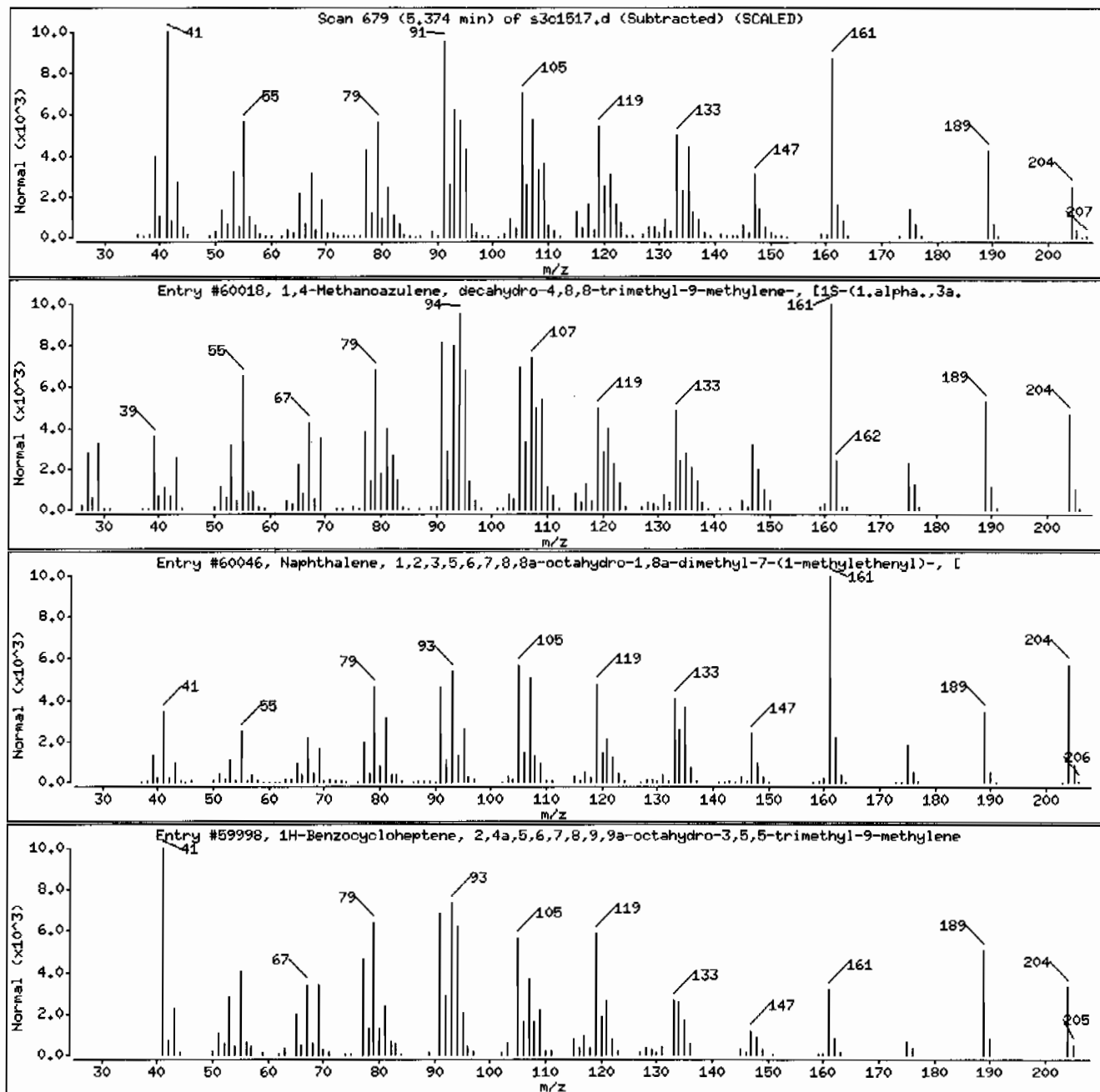
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	97	C ₁₅ H ₂₄	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C ₁₅ H ₂₄	204
1H-Benzocycloheptene, 2,4a,5,6,7,8,9,9a-	3853-83-6	NIST05.L	59998	95	C ₁₅ H ₂₄	204



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVMF111LANL

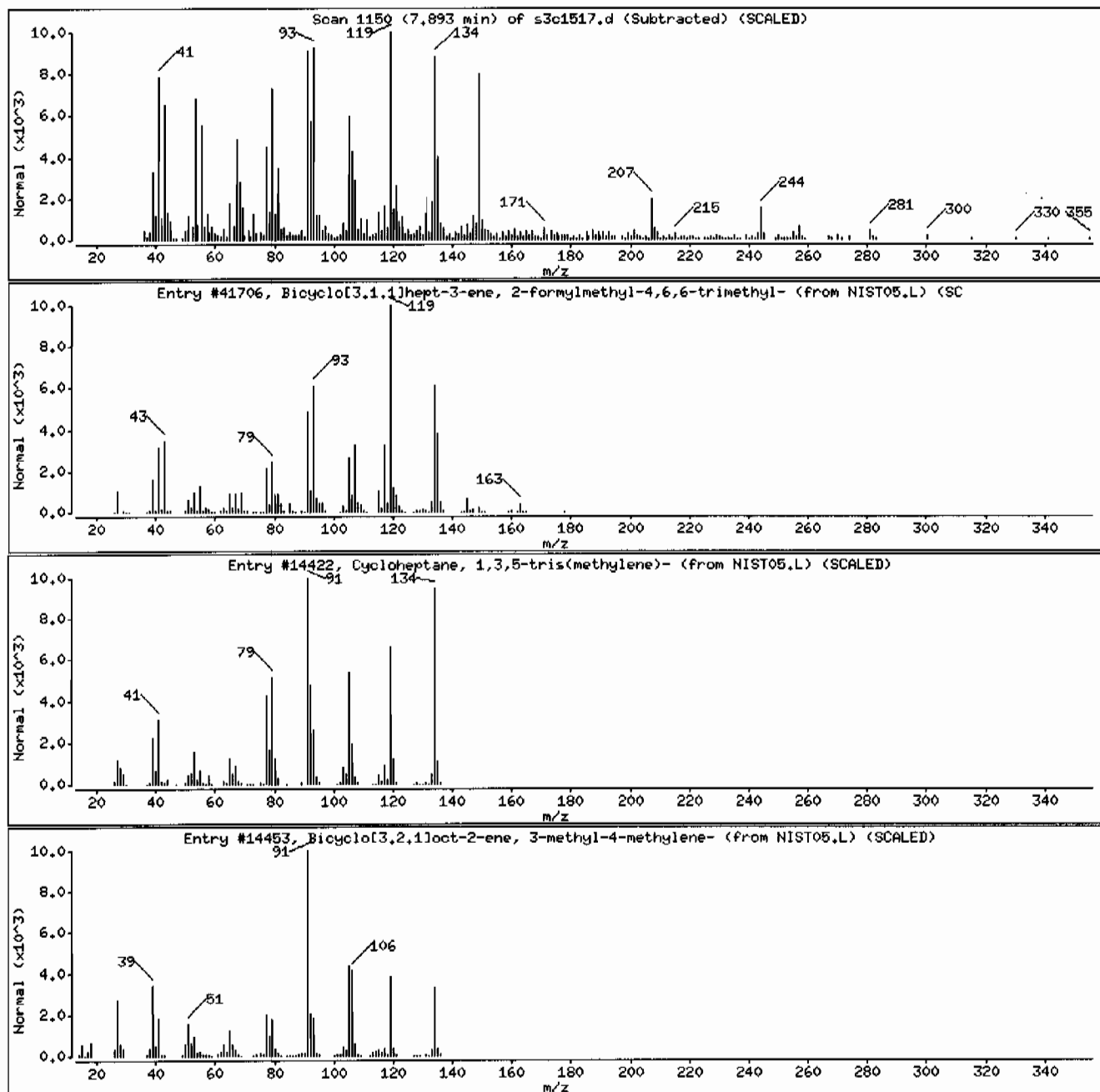
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.1.1]hept-3-ene, 2-formylmethyl	135004-95-4	NIST05.L	41706	38	C12H18O	178
Cycloheptane, 1,3,5-tris(methylene)-	68284-24-2	NIST05.L	14422	36	C10H14	134
Bicyclo[3.2.1]oct-2-ene, 3-methyl-4-meth	49826-53-1	NIST05.L	14453	25	C10H14	134



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVHF111LANL

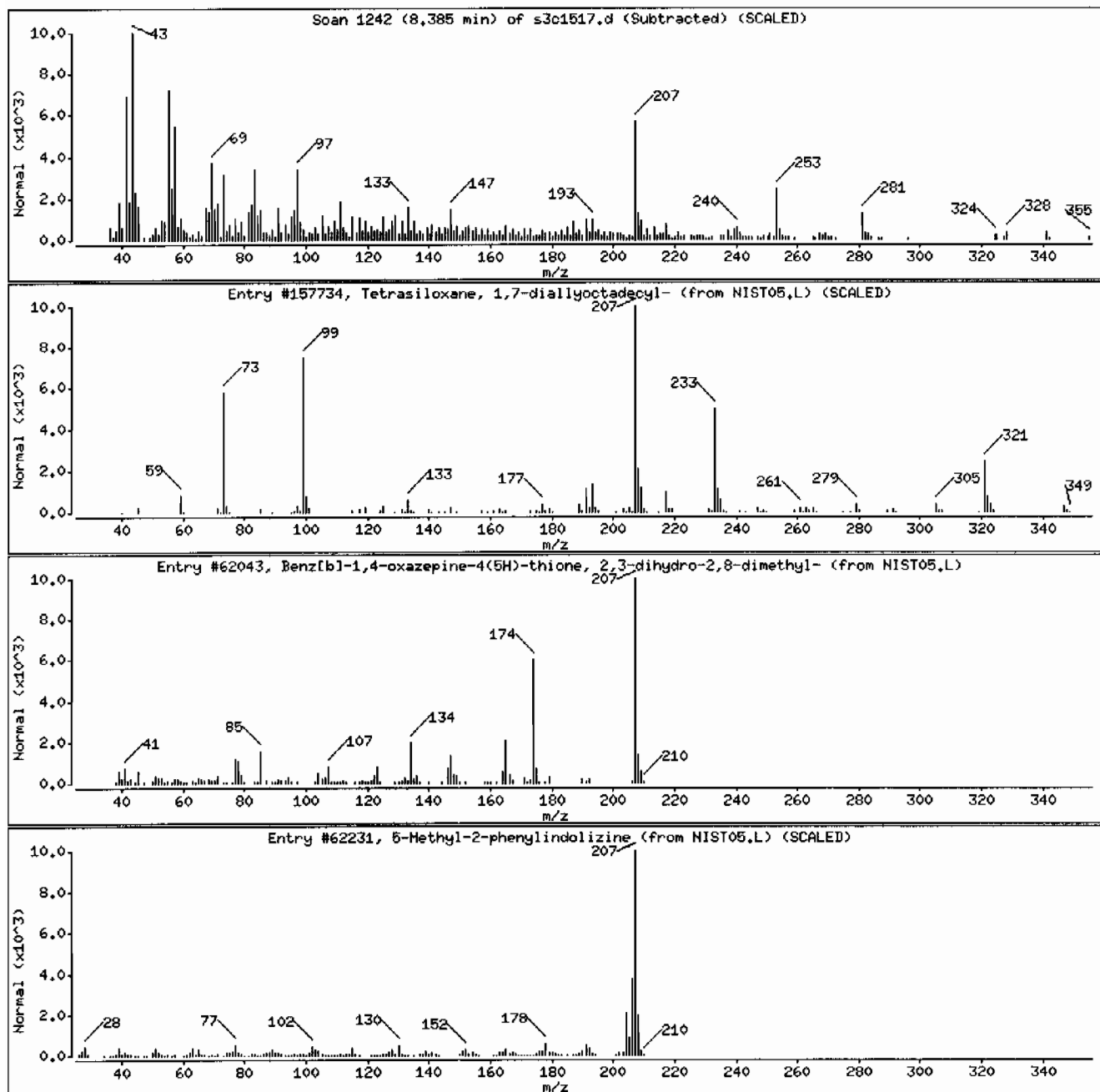
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetrasiloxane, 1,7-diallyloctadecyl-	1000309-08-2	NIST05.L	157734	38	C14H34O3Si4	362
Benz[bl]-1,4-oxazepine-4(5H)-thione, 2,3-	1000258-63-4	NIST05.L	62043	38	C11H13NOS	207
5-Methyl-2-phenylindolizine	36944-99-7	NIST05.L	62231	30	C15H13N	207



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVHF111LANL

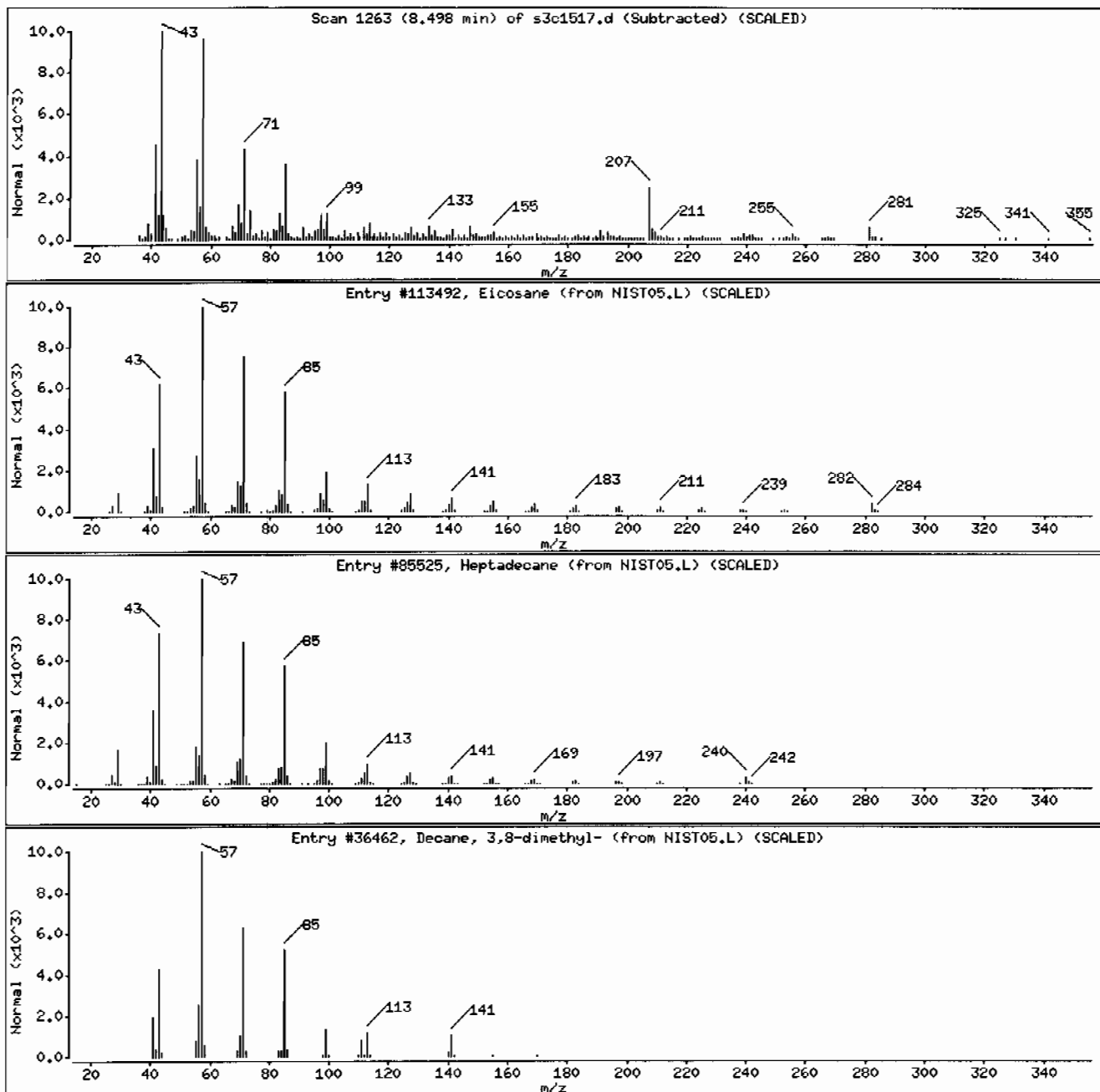
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	NIST05.L	113492	92	C20H42	282
Heptadecane	629-78-7	NIST05.L	85525	91	C17H36	240
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	87	C12H26	170



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVMF11ILANL

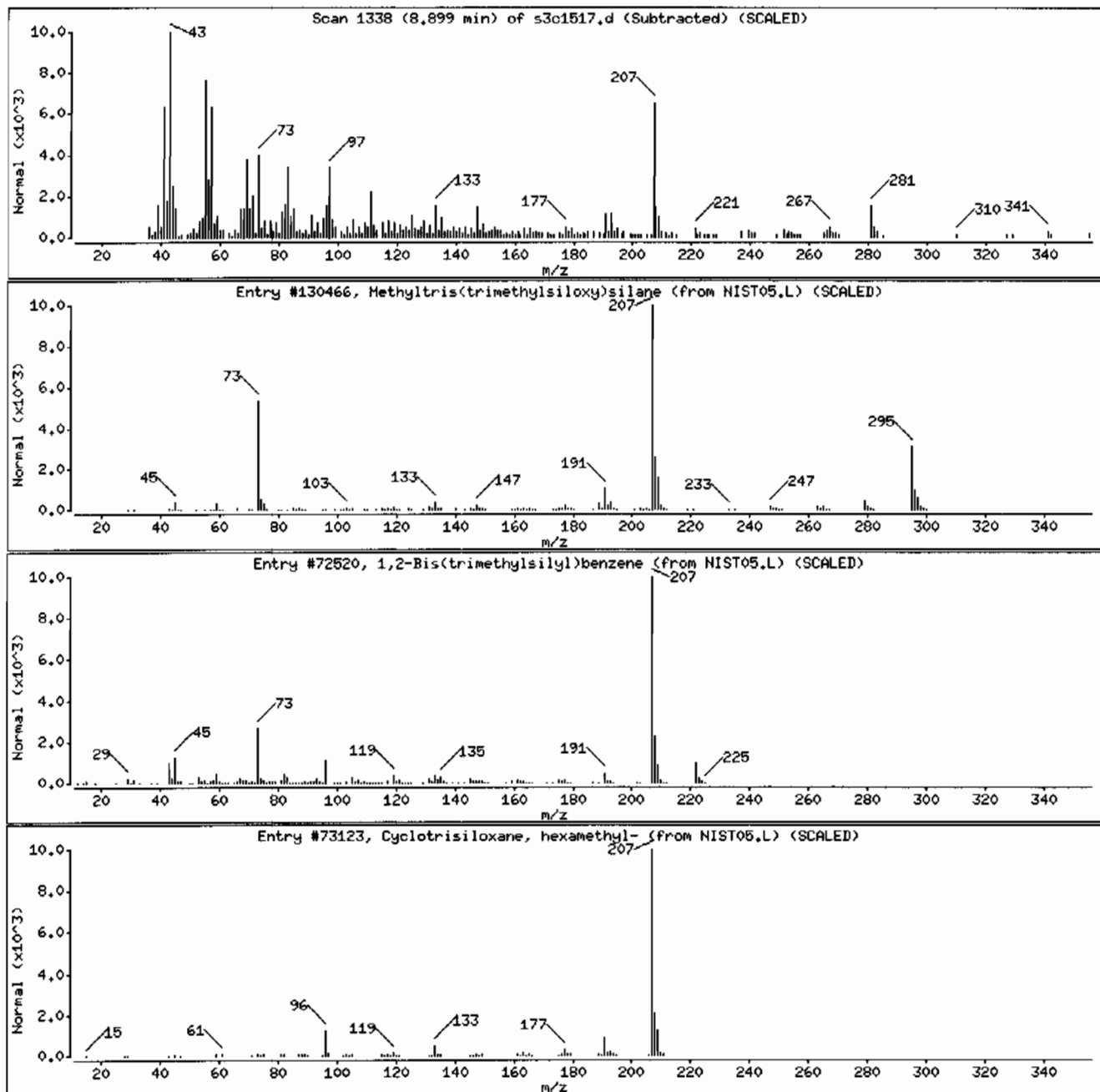
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methyltris(trimethylsiloxy)silane	17928-28-8	NIST05.L	130466	38	C10H30O3Si4	310
1,2-Bis(trimethylsilyl)benzene	17151-09-6	NIST05.L	72520	38	C12H22Si2	222
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73123	38	C6H18O3Si3	222



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 12481970101960459121SVMF111LANL

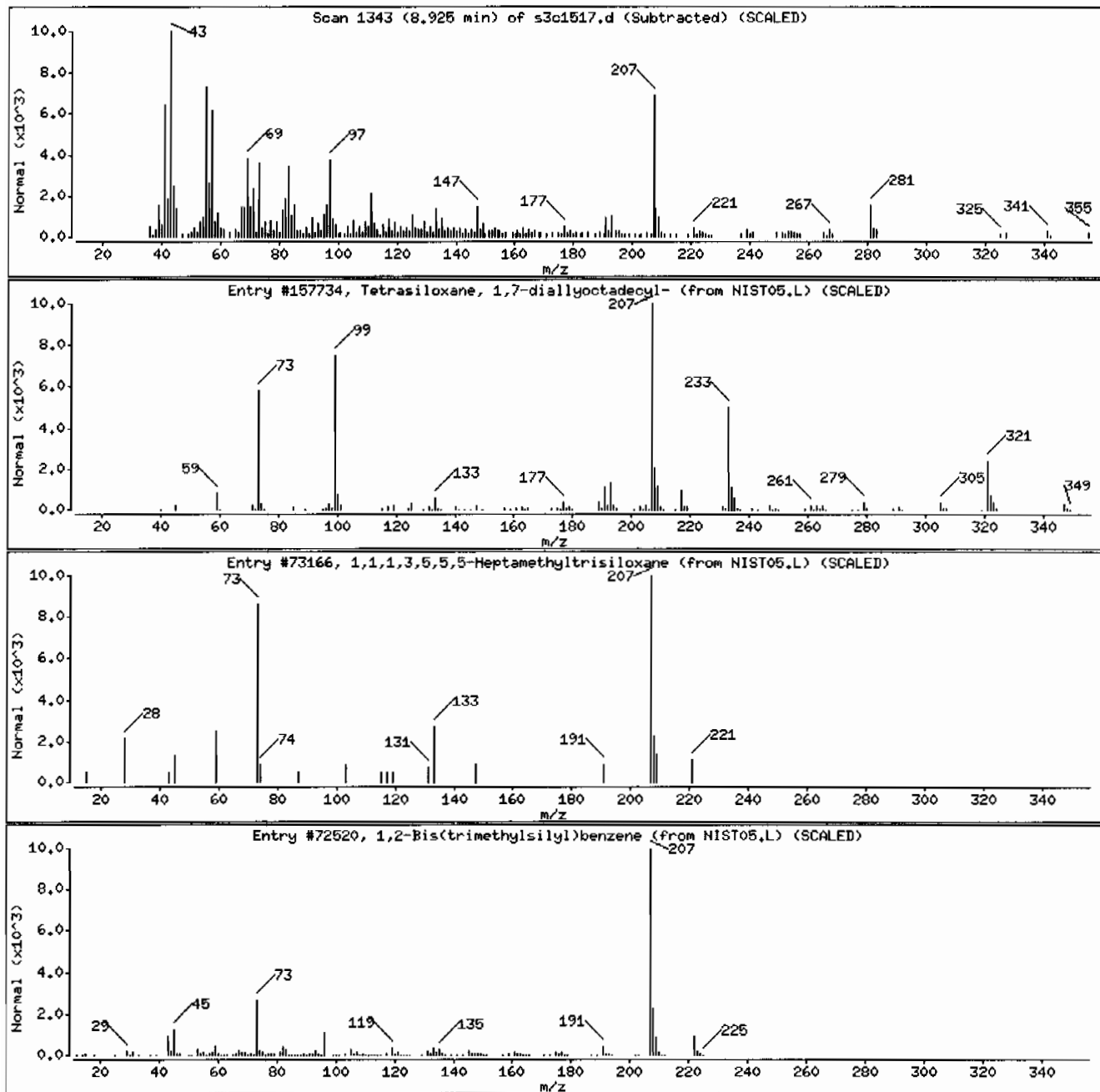
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetrasiloxane, 1,7-diallyloctadecyl-	1000309-08-2	NIST05.L	157734	60	C14H34O3Si4	362
1,1,1,3,5,5,5-Heptamethyltrisiloxane	1873-88-7	NIST05.L	73166	43	C7H22O2Si3	222
1,2-Bis(trimethylsilyl)benzene	17151-09-6	NIST05.L	72520	38	C12H22Si2	222



Date: 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: I2481970101960459121SVMF11ILANL

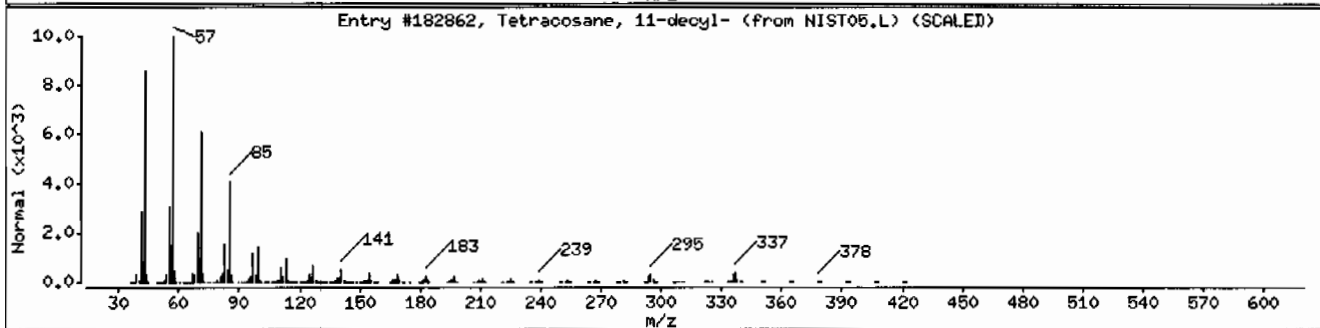
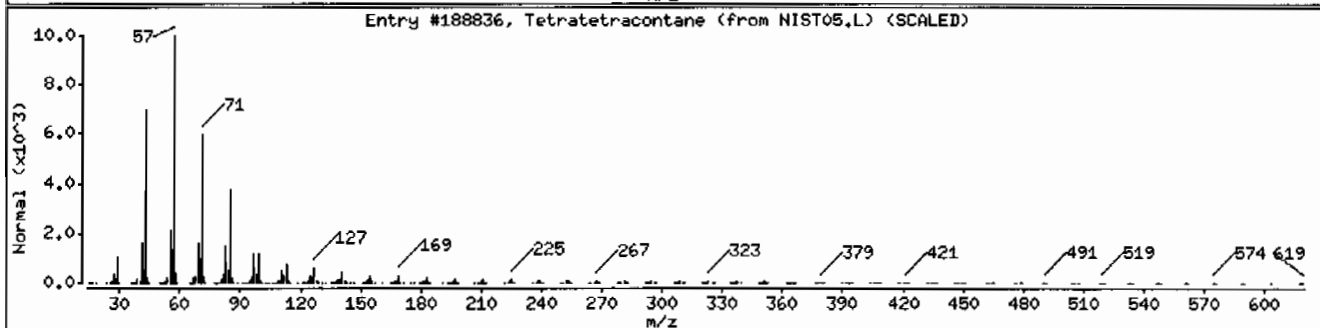
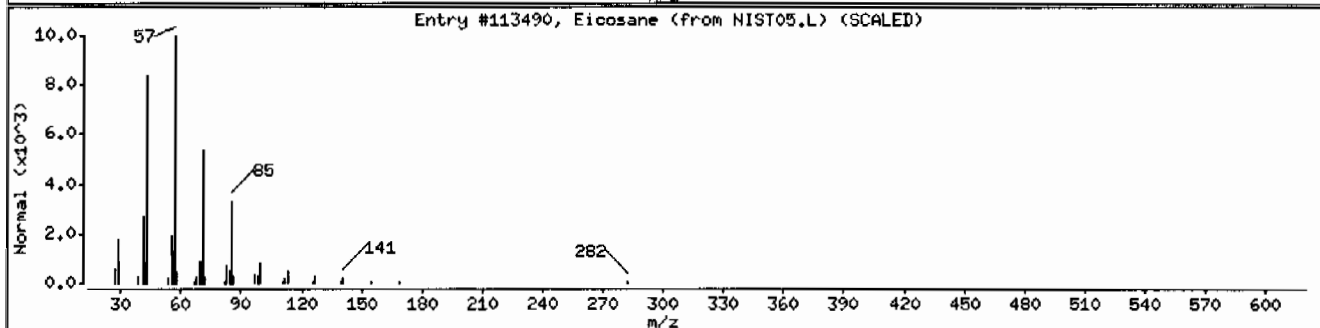
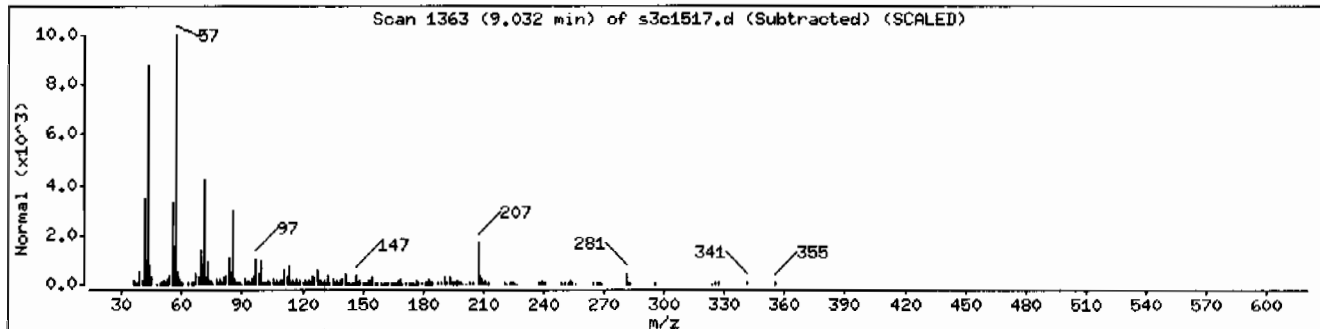
Volume Injected (uL): 0.5

Operator: JLD1

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	96	C20H42	282
Tetratetracontane	7098-22-8	NIST05.L	188836	76	C44H90	619
Tetracosane, 11-decyl-	55429-84-0	NIST05.L	182862	76	C34H70	479



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: HSD3.i

Sample Info: 12481970101960459121SVHF11ILANL

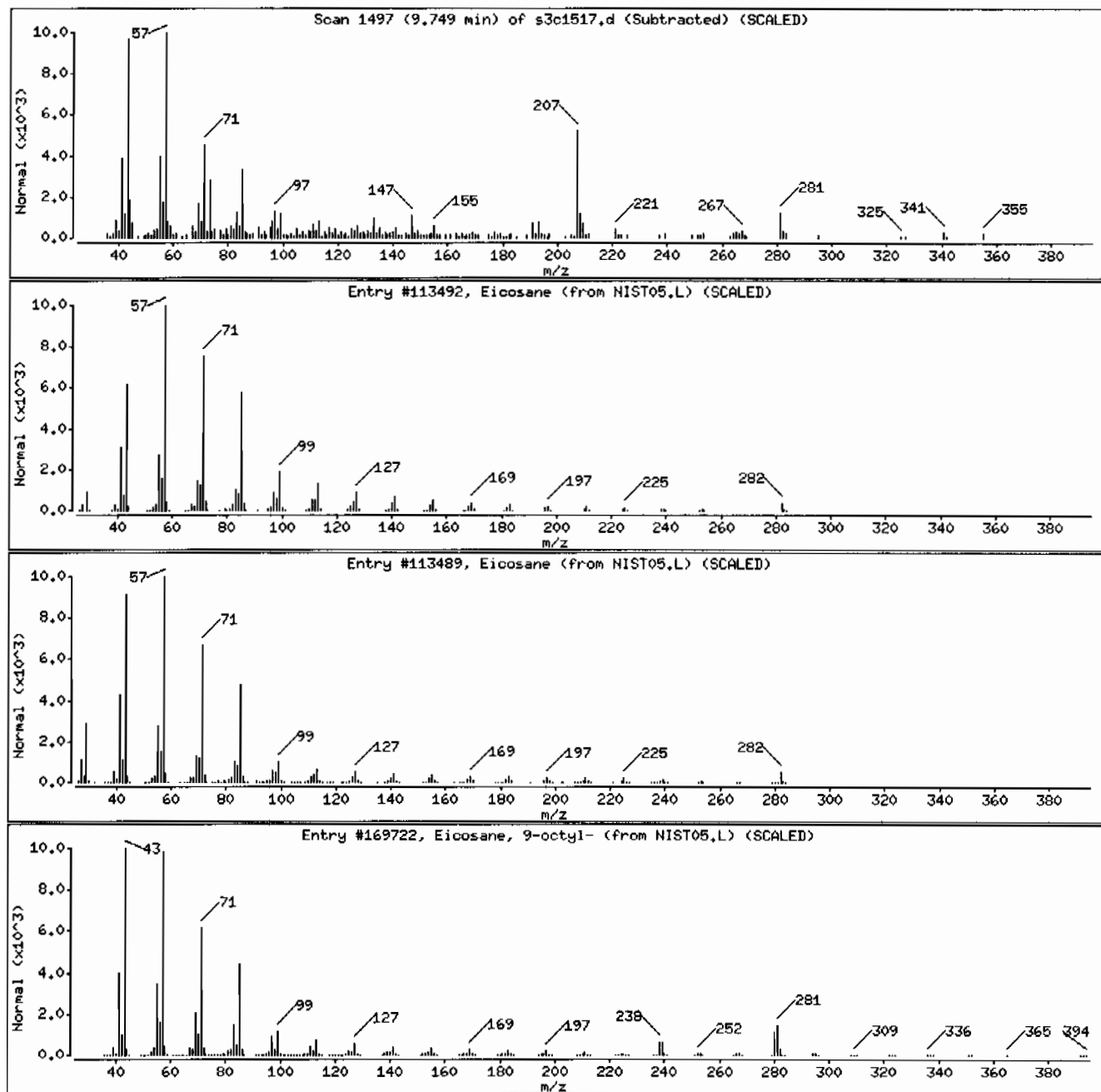
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	NIST05.L	113492	95	C20H42	282
Eicosane	112-95-8	NIST05.L	113489	93	C20H42	282
Eicosane, 9-octyl-	13475-77-9	NIST05.L	169722	50	C28H58	394



Date : 15-MAR-2010 19:04

Client ID: RE36-10-7434

Instrument: MSD3.i

Sample Info: 1248197010196045912ISVHF111LANL

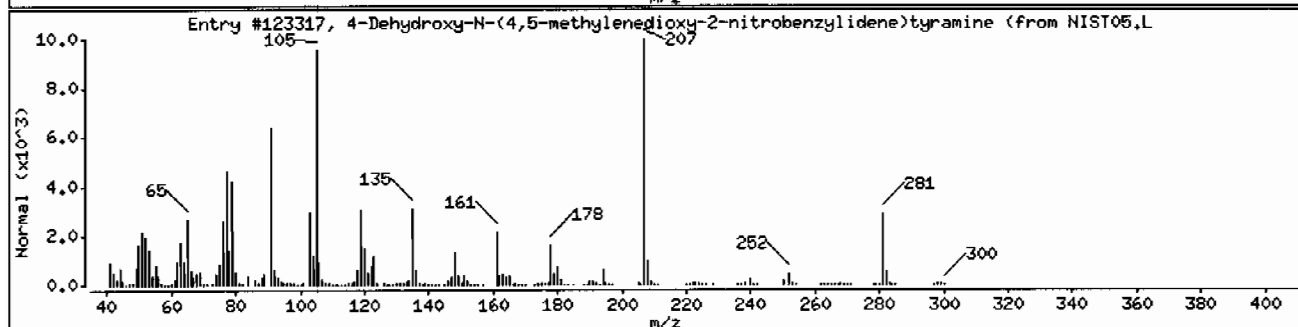
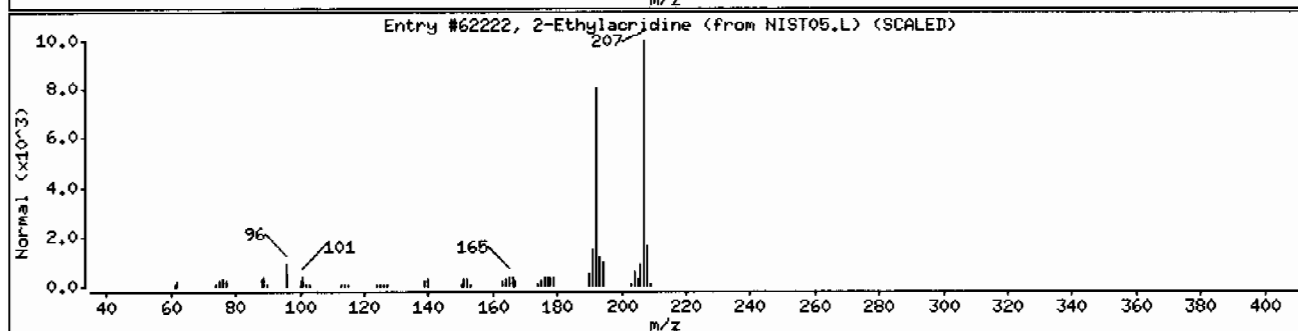
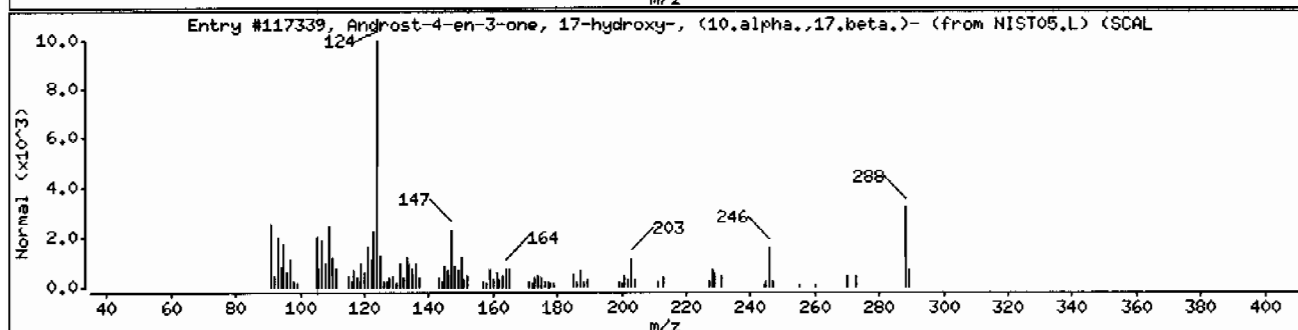
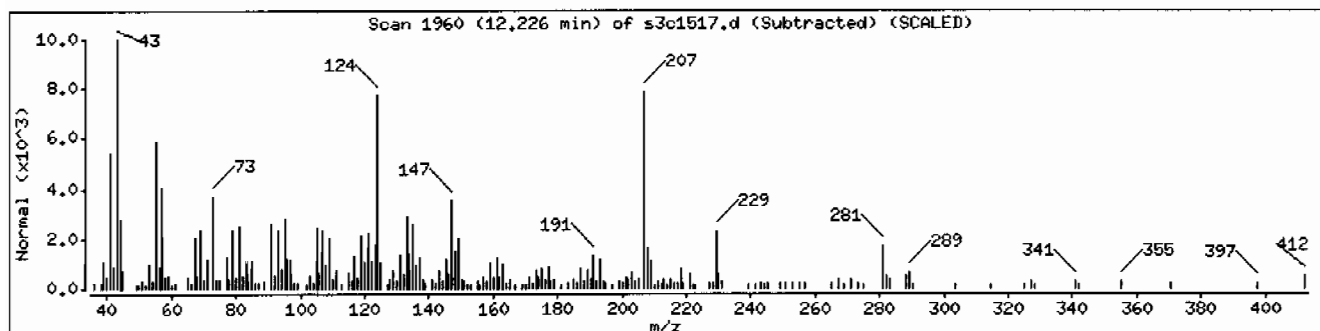
Volume Injected (uL): 0.5

Operator: JLD1

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-, (10.alpha.)	604-39-7	NIST05.L	117339	47	C19H28O2	288
2-Ethylacridine	55751-83-2	NIST05.L	62222	35	C15H13N	207
4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	1000111-66-9	NIST05.L	123317	25	C16H14N2O4	298



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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
Client ID: RE36-10-7516	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 16:56	Inst: MSD3.1	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1319.d	Aliquot: 30.19 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	809	ug/kg	162	809
108-95-2	Phenol	U	809	ug/kg	162	809
95-57-8	2-Chlorophenol	U	809	ug/kg	162	809
106-46-7	1,4-Dichlorobenzene	U	809	ug/kg	162	809
621-64-7	N-Nitrosodipropylamine	U	809	ug/kg	162	809
59-50-7	4-Chloro-3-methylphenol	U	809	ug/kg	162	809
83-32-9	Acenaphthene	U	80.9	ug/kg	26.7	80.9
121-14-2	2,4-Dinitrotoluene	U	809	ug/kg	80.9	809
100-02-7	4-Nitrophenol	U	809	ug/kg	267	809
87-86-5	Pentachlorophenol	U	809	ug/kg	202	809
129-00-0	Pyrene		96.7	ug/kg	24.3	80.9
110-86-1	Pyridine	U	809	ug/kg	162	809
62-53-3	Aniline	U	809	ug/kg	243	809
111-44-4	bis(2-Chloroethyl) ether	U	809	ug/kg	162	809
541-73-1	1,3-Dichlorobenzene	U	809	ug/kg	162	809
100-51-6	Benzyl alcohol	U	809	ug/kg	243	809
95-50-1	1,2-Dichlorobenzene	U	809	ug/kg	162	809
108-60-1	bis(2-Chloroisopropyl)ether	U	809	ug/kg	162	809
95-48-7	o-Cresol	U	809	ug/kg	162	809
65794-96-9	m,p-Cresols	U	809	ug/kg	243	809
67-72-1	Hexachloroethane	U	809	ug/kg	162	809
98-95-3	Nitrobenzene	U	809	ug/kg	162	809
78-59-1	Isophorone	U	809	ug/kg	162	809
88-75-5	2-Nitrophenol	U	809	ug/kg	162	809
105-67-9	2,4-Dimethylphenol	U	809	ug/kg	283	809
111-91-1	bis(2-Chloroethoxy)methane	U	809	ug/kg	162	809
120-83-2	2,4-Dichlorophenol	U	809	ug/kg	162	809
65-85-0	Benzoic acid	U	1620	ug/kg	404	1620
91-20-3	Naphthalene	U	80.9	ug/kg	24.3	80.9
106-47-8	4-Chloroaniline	U	809	ug/kg	162	809
87-68-3	Hexachlorobutadiene	U	809	ug/kg	162	809
91-57-6	2-Methylnaphthalene	U	80.9	ug/kg	16.2	80.9
77-47-4	Hexachlorocyclopentadiene	U	809	ug/kg	162	809
88-06-2	2,4,6-Trichlorophenol	U	809	ug/kg	162	809
95-95-4	2,4,5-Trichlorophenol	U	809	ug/kg	162	809
91-58-7	2-Chloronaphthalene	U	80.9	ug/kg	26.7	80.9
88-74-4	2-Nitroaniline	U	809	ug/kg	162	809
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	809	ug/kg	162	809

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
Client ID: RE36-10-7516	Client: LANL010	Project: LANL01004
Batch ID: 960459	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 03/13/2010 16:56	Inst: MSD3.1	Dilution: 2
Prep Date: 03/03/2010 23:09	Analyst: JLD1	Inj. Vol: .5 uL
Data File: s3c1319.d	Aliquot: 30.19 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	809	ug/kg	162	809
606-20-2	2,6-Dinitrotoluene	U	809	ug/kg	80.9	809
208-96-8	Acenaphthylene	U	80.9	ug/kg	24.3	80.9
51-28-5	2,4-Dinitrophenol	U	1620	ug/kg	307	1620
132-64-9	Dibenzofuran	U	809	ug/kg	162	809
84-66-2	Diethylphthalate	U	809	ug/kg	162	809
86-73-7	Fluorene	U	80.9	ug/kg	24.3	80.9
7005-72-3	4-Chlorophenylphenylether	U	809	ug/kg	162	809
534-52-1	2-Methyl-4,6-dinitrophenol	U	809	ug/kg	162	809
100-01-6	4-Nitroaniline	U	809	ug/kg	243	809
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	809	ug/kg	162	809
122-66-7	Azobenzene	U	809	ug/kg	162	809
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	809	ug/kg	162	809
118-74-1	Hexachlorobenzene	U	809	ug/kg	162	809
85-01-8	Phenanthrene	J	63.1	ug/kg	24.3	80.9
120-12-7	Anthracene	U	80.9	ug/kg	16.2	80.9
84-74-2	Di-n-butylphthalate	U	809	ug/kg	162	809
206-44-0	Fluoranthene		87.1	ug/kg	24.3	80.9
85-68-7	Butylbenzylphthalate	U	809	ug/kg	162	809
56-55-3	Benzo(a)anthracene	J	54.4	ug/kg	24.3	80.9
91-94-1	3,3'-Dichlorobenzidine	U	809	ug/kg	243	809
218-01-9	Chrysene	J	58.3	ug/kg	24.3	80.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	809	ug/kg	162	809
117-84-0	Di-n-octylphthalate	U	809	ug/kg	162	809
205-99-2	Benzo(b)fluoranthene		113	ug/kg	24.3	80.9
207-08-9	Benzo(k)fluoranthene	U	80.9	ug/kg	24.3	80.9
50-32-8	Benzo(a)pyrene	J	49.5	ug/kg	24.3	80.9
193-39-5	Indeno(1,2,3-cd)pyrene	J	24.9	ug/kg	24.3	80.9
53-70-3	Dibenzo(a,h)anthracene	U	80.9	ug/kg	24.3	80.9
191-24-2	Benzo(ghi)perylene	J	32.7	ug/kg	24.3	80.9
120-82-1	1,2,4-Trichlorobenzene	U	809	ug/kg	162	809

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	7.62	492	ug/kg		J
3386-33-2	Octadecane, 1-chloro-	8	516	ug/kg	89	NJ

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

SDG Number: 10-2121	Date Collected: 02/23/2010 12:00	Matrix: R
Lab Sample ID: 248197005	Date Received: 02/26/2010 08:45	%Moisture: 18.1
	Client: LANL010	Project: LANL01004
Client ID: RE36-10-7516	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 2
Run Date: 03/13/2010 16:56	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s3c1319.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
506-51-4	1-Tetracosanol	8.43	930	ug/kg	87	NJ
17312-55-9	Decane, 3,8-dimethyl-	8.93	826	ug/kg	90	NJ
112-95-8	Eicosane	9.61	527	ug/kg	95	NJ
	Unknown	9.66	1100	ug/kg		J
	Unknown	10.44	436	ug/kg		J
83-46-5	.beta.-Sitosterol	11.07	641	ug/kg	93	NJ
	Unknown	11.46	1180	ug/kg		J

Data File: /chem/MSD3.i/s031310.b/s3c1319.d
Report Date: 15-Mar-2010 11:54

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1319.d
Lab Smp Id: 248197005 Client Smp ID: RE36-10-7516
Inj Date : 13-MAR-2010 16:56
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197005|960459|2|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 19
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	18.08840	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT			ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473	(1.000)	626869	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2373156	40.0000	
* 46 Acenaphthene-d10	164	5.567	5.570	(1.000)	1283214	40.0000	
* 67 Phenanthrene-d10	188	6.588	6.592	(1.000)	2111689	40.0000	
* 91 Chrysene-d12	240	8.166	8.169	(1.000)	1173837	40.0000	
* 98 Perylene-d12	264	9.332	9.330	(1.000)	631167	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	449778	31.9271	2580
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	513053	30.9989	2510
\$ 20 Nitrobenzene-d5	82	3.828	3.837	(0.885)	220998	16.3582	1320
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	514357	15.7547	1270
\$ 60 2,4,6-Tribromophenol	329	6.123	6.126	(1.100)	97213	33.0406	2670
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	398345	21.8931	1770

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
79 Pyrene		202	7.465	7.463	(0.914)	40650	1.19596	96.7
68 Phenanthrene		178	6.604	6.608	(1.002)	37349	0.78080	63.1(a)
76 Fluoranthene		202	7.326	7.324	(1.112)	46688	1.07754	87.1
89 Benzo(a)anthracene		228	8.166	8.159	(1.000)	18337	0.67265	54.4(a)
92 Chrysene		228	8.182	8.185	(1.002)	20082	0.72047	58.3(a)
95 Benzo(b)fluoranthene		252	8.968	8.966	(0.961)	22367	1.39614	113
97 Benzo(a)pyrene		252	9.279	9.277	(0.994)	8423	0.61202	49.5(a)
99 Indeno(1,2,3-cd)pyrene		276	10.600	10.603	(1.136)	3654	0.30792	24.9(a)
101 Benzo(ghi)perylene		276	10.995	10.993	(1.178)	3938	0.40395	32.7(a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s3c1319.d

Report Date: 03/14/2010 14:32

Lab. ID: 248197005

SampleType: SAMPLE

Injection Date: 13-MAR-2010 16:56

Operator: JLD1

Instrument: MSD3.i

Sample Info: |248197005|960459|2|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01|

Comment:

Method used: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Dilution Factor= 2.0

Integrator: HP RTE

Compound Sublist: 10-2121

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	28592	3.21	3.26	80-120	100	()
93	4886	3.25	3.26	200-260	17	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	32365	3.83	3.72	80-120	100	(T)
42	26670	3.83	3.72	76-136	82	(T)

27	Benzoic acid	CAS#: 65-85-0				
105	1572	4.11	4.12	80-120	100	()
122	980	4.10	4.12	55-115	62	()
77	1465	4.11	4.12	29- 89	93	(Q)

43	Dimethylphthalate	CAS#: 131-11-3				
163	231656	5.57	5.35	80-120	100	(T)
164	1282737	5.57	5.35	0- 40	554	(QT)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	166404	5.57	5.40	80-120	100	(T)
63	2122	5.57	5.40	49-109	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	166404	5.57	5.69	80-120	100	(T)
89	3211	5.57	5.69	48-108	2	(QT)
63	2122	5.57	5.69	21- 81	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
52 4-Nitrophenol		CAS#: 100-02-7				
139	133	5.64	5.63	80-120	100	()
109	619	5.65	5.63	39- 99	464	(Q)
65	1108	5.63	5.63	60-120	830	(Q)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	566	6.12	5.98	80-120	100	(T)
105	1136	6.12	5.98	14- 74	201	(QT)
51	887	6.12	5.98	40-100	157	(QT)

56 p-Nitroaniline		CAS#: 100-01-6				
138	359	6.02	5.97	80-120	100	()
108	138	6.09	5.97	35- 95	38	(T)
92	191	5.99	5.97	5- 65	53	()

68 Phenanthrene		CAS#: 85-01-8				
178	37349	6.60	6.61	80-120	100	()
179	7670	6.60	6.61	0- 46	21	()
176	7211	6.60	6.61	0- 49	19	()

69 Anthracene		CAS#: 120-12-7				
178	37349	6.60	6.64	80-120	100	()
179	7670	6.60	6.64	0- 46	21	()
176	7211	6.60	6.64	0- 49	19	()

76 Fluoranthene		CAS#: 206-44-0				
202	46688	7.33	7.32	80-120	100	()
203	8238	7.33	7.32	0- 47	18	()
101	6087	7.33	7.32	0- 43	13	()

79 Pyrene		CAS#: 129-00-0				
202	40650	7.47	7.46	80-120	100	()
200	8473	7.47	7.46	0- 51	21	()
101	6542	7.46	7.46	0- 46	16	()

89 Benzo(a)anthracene		CAS#: 56-55-3				
228	18337	8.17	8.16	80-120	100	()
226	4535	8.17	8.16	0- 57	25	()
229	5976	8.16	8.16	0- 50	33	()

92 Chrysene		CAS#: 218-01-9				
228	20082	8.18	8.19	80-120	100	()
229	5181	8.18	8.19	0- 50	26	()
226	5786	8.18	8.19	0- 59	29	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	22367	8.97	8.97	80-120	100	()
253	5536	8.97	8.97	0- 52	25	()
125	6260	8.97	8.96	0- 44	28	()

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	22367	8.97	8.99	80-120	100	()
253	5539	8.97	8.99	0- 52	25	()
125	6260	8.97	8.99	0- 48	28	()

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	8423	9.28	9.28	80-120	100	()
253	2203	9.28	9.28	0- 52	26	()
125	1778	9.27	9.28	0- 48	21	()

99 Indeno(1,2,3-cd)pyrene				CAS#: 193-39-5		
276	3654	10.60	10.60	80-120	100	()
138	1761	10.59	10.60	14- 74	48	()

101 Benzo(ghi)perylene				CAS#: 191-24-2		
276	3938	11.00	10.99	80-120	100	()
138	1451	10.99	10.99	9- 69	37	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1319.d
Lab Smp Id: 248197005 Client Smp ID: RE36-10-7516
Inj Date : 13-MAR-2010 16:56
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |248197005|960459|2|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 19
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	18.08840	% moisture

Cpnd Variable

Local Compound Variable

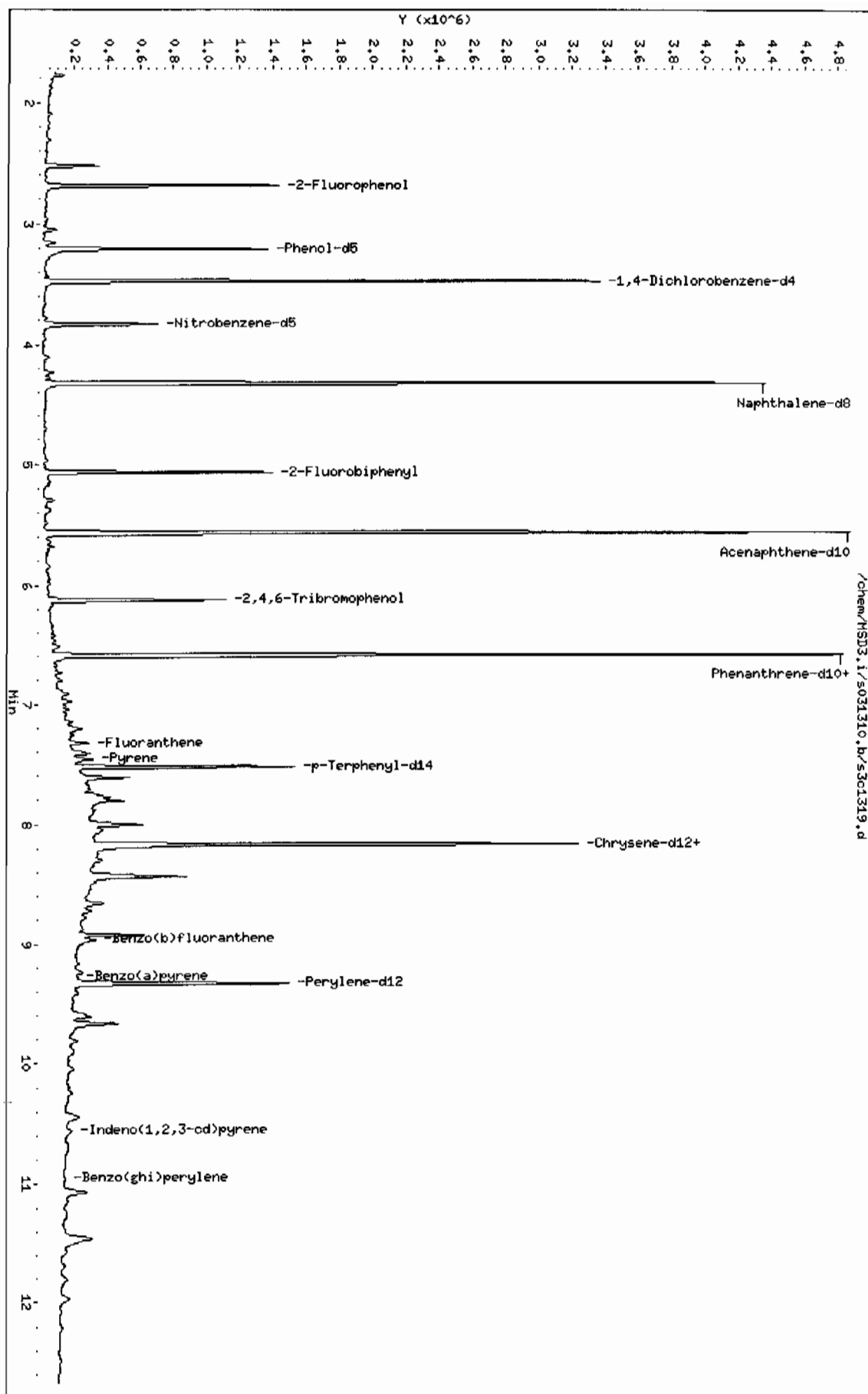
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 91 Chrysene-d12	8.166	3519588	40.000
* 98 Perylene-d12	9.332	1917784	40.000

CONCENTRATIONS				QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY
=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:		
7.615	535378	6.08454956	492	0		91

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Octadecane, 1-chloro-					CAS #: 3386-33-2		
8.000	561302	6.37917274	516	89	NIST05.L	117265	91
1-Tetracosanol					CAS #: 506-51-4		
8.433	1011887	11.5000564	930	87	NIST05.L	154682	91
Decane, 3,8-dimethyl-					CAS #: 17312-55-9		
8.926	489703	10.2139384	826	90	NIST05.L	36462	98
Eicosane					CAS #: 112-95-8		
9.610	312391	6.51566955	527	95	NIST05.L	113492	98
Unknown					CAS #:		
9.664	652519	13.6098520	1100	0		0	98
Unknown					CAS #:		
10.439	258554	5.39276376	436	0		0	98
.beta.-Sitosterol					CAS #: 83-46-5		
11.065	379743	7.92044355	640	93	NIST05.L	174400	98
Unknown					CAS #:		
11.455	696603	14.5293317	1180	0		0	98

Data File: /chem/MSD3.i/s031310.b/s3c1319.d
 Date: 13-MAR-2010 16:56
 Client ID: RE36-10-7616
 Sample Info: 12481970051960459121SVHF111LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD3.i
 Operator: JLD1
 Column diameter: 0.20



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVHF111LANL

Volume Injected (uL): 0.5

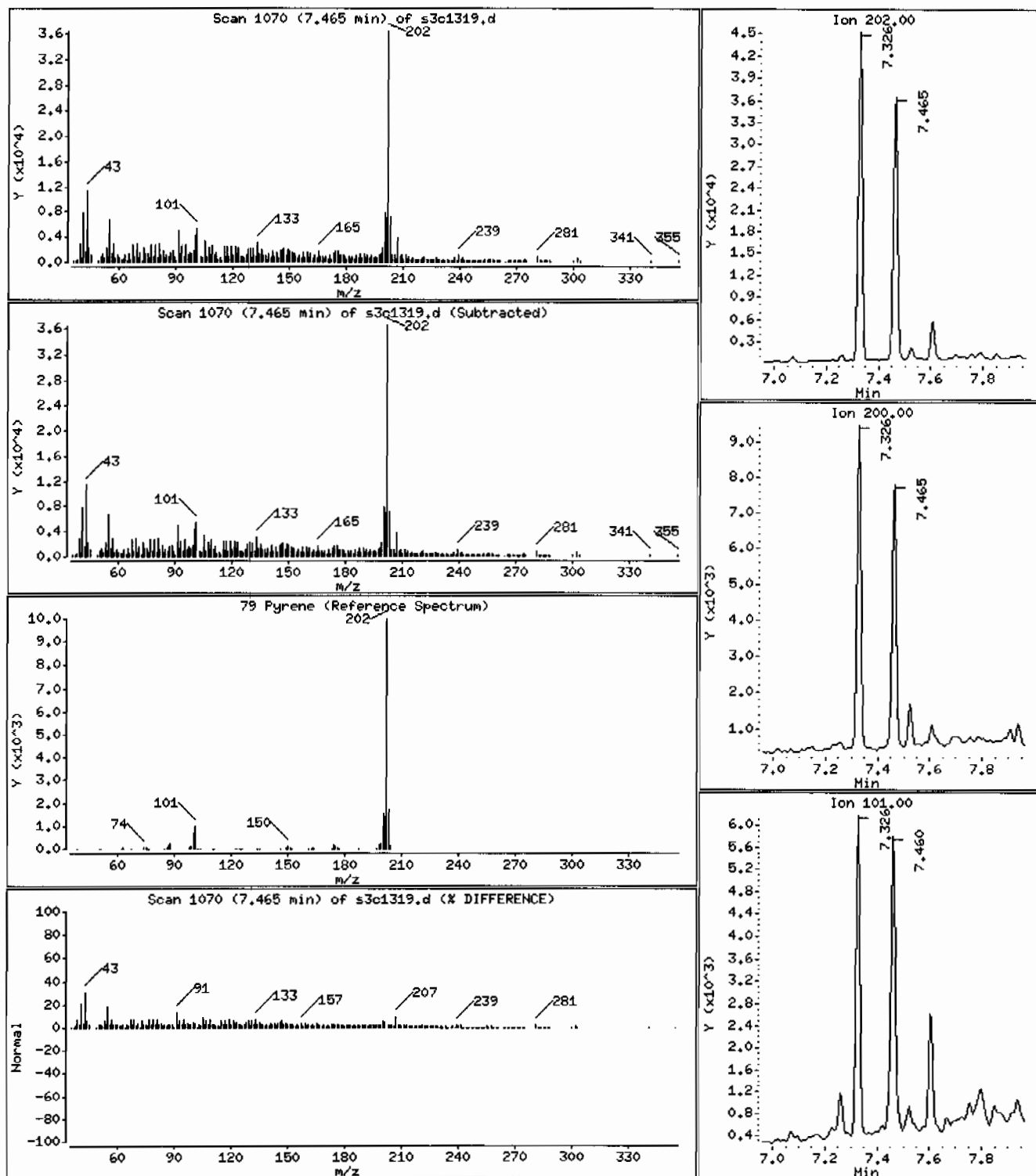
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

79 Pyrene

Concentration: 96.7 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVHF11ILANL

Volume Injected (uL): 0.5

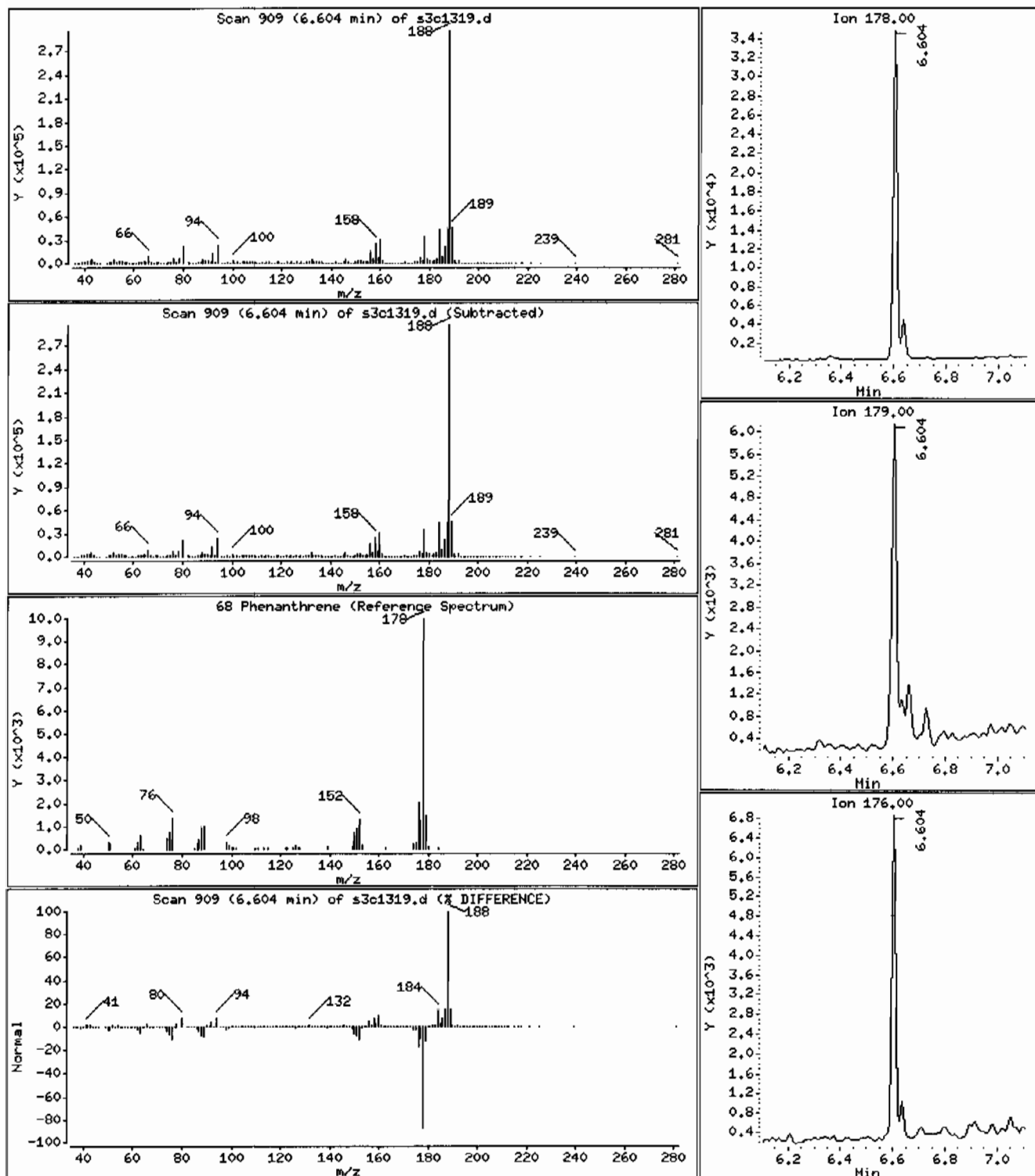
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

68 Phenanthrene

Concentration: 63.1 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: HSD3.i

Sample Info: 12481970051960459121SVHF111LANL

Volume Injected (uL): 0.5

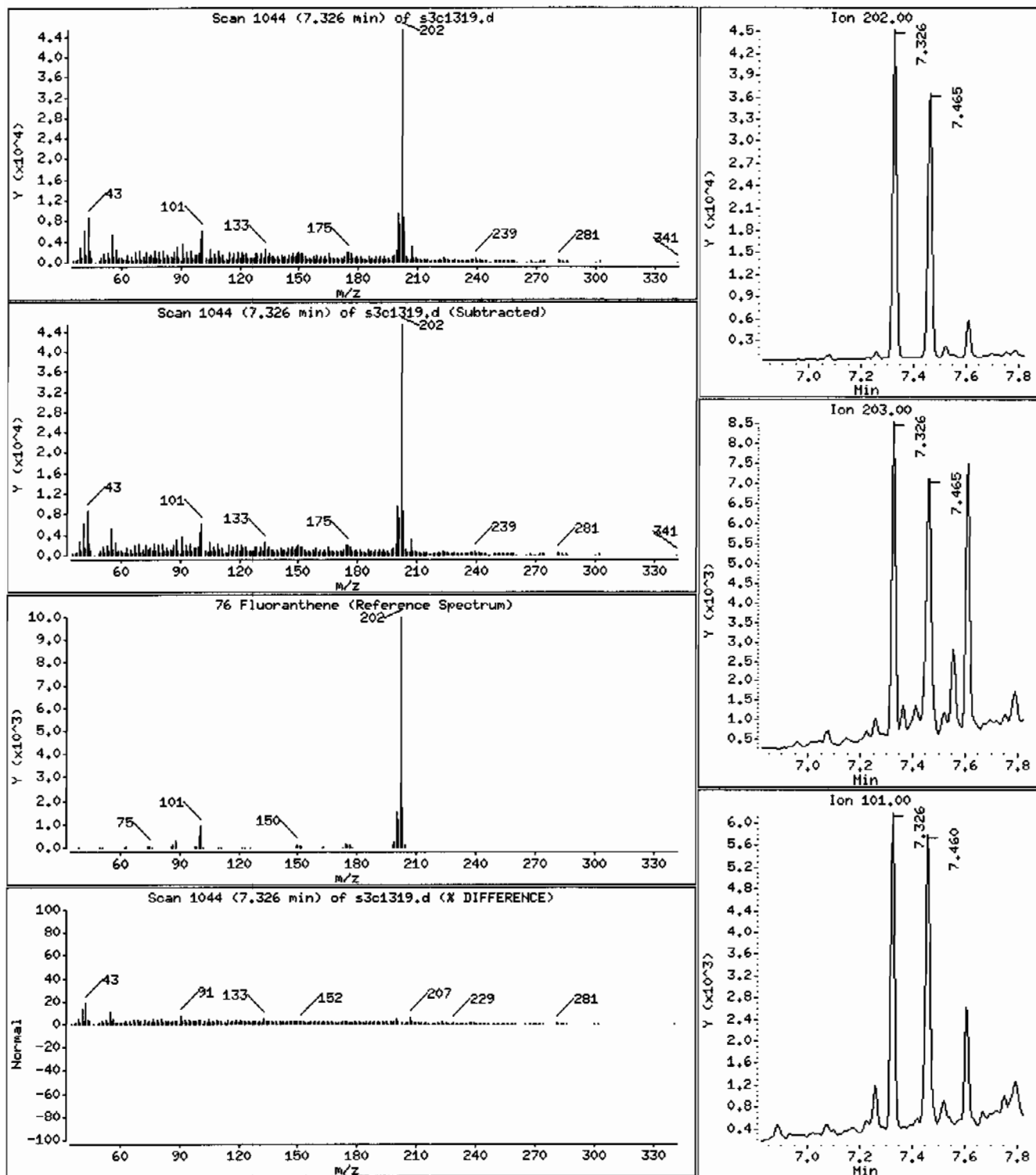
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

76 Fluoranthene

Concentration: 87.1 ug/Kg



Data File: /chem/HSD3,i/s031310,b/s3c1319.d

Page 5

Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: HSD3.i

Sample Info: 12481970051960459121SVMF11ILANL

Volume Injected (uL): 0,5

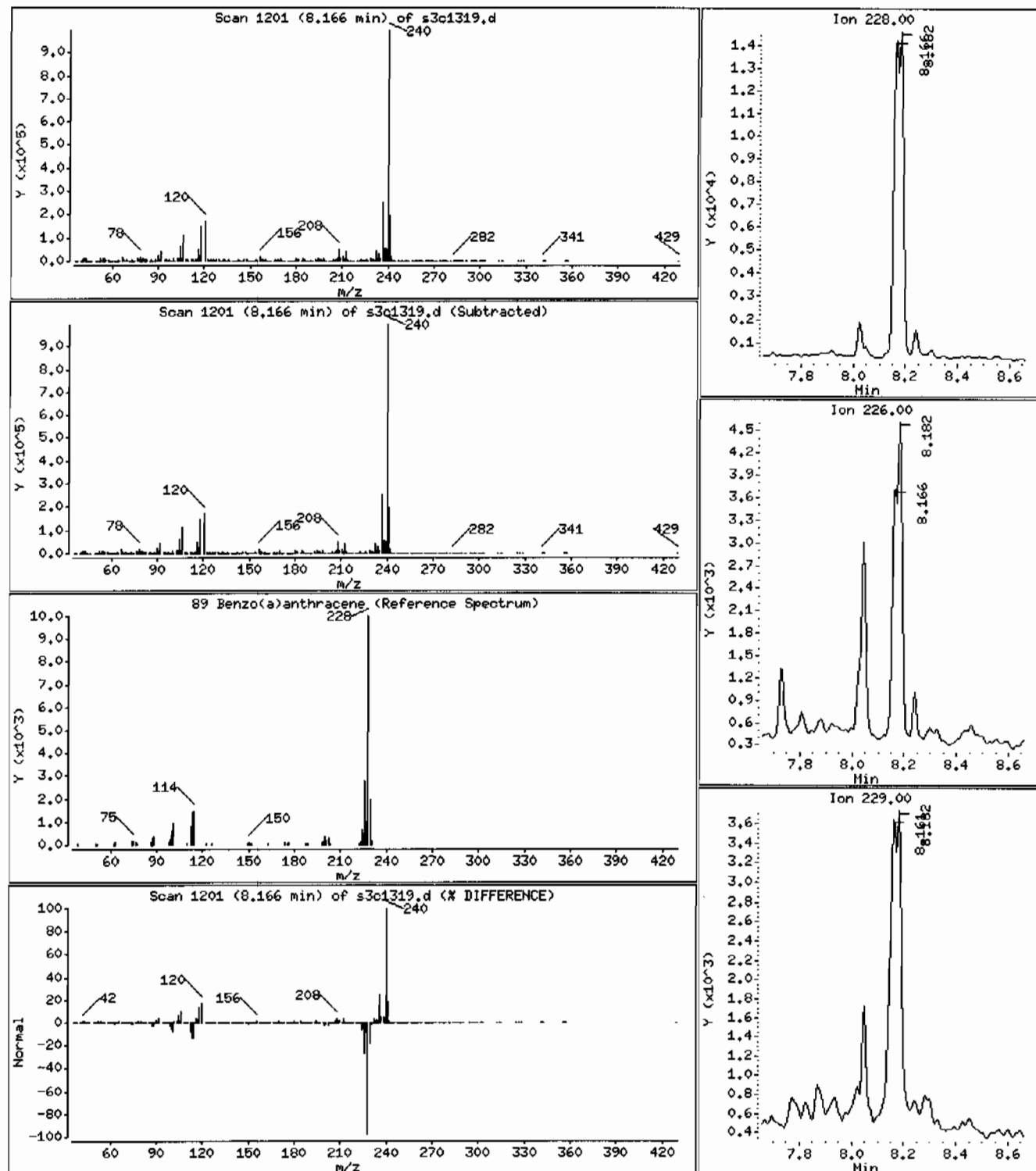
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0,20

89 Benzo(a)anthracene

Concentration: 54.4 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.1

Sample Info: 12481970051960459121SVHF111LANL

Volume Injected (uL): 0.5

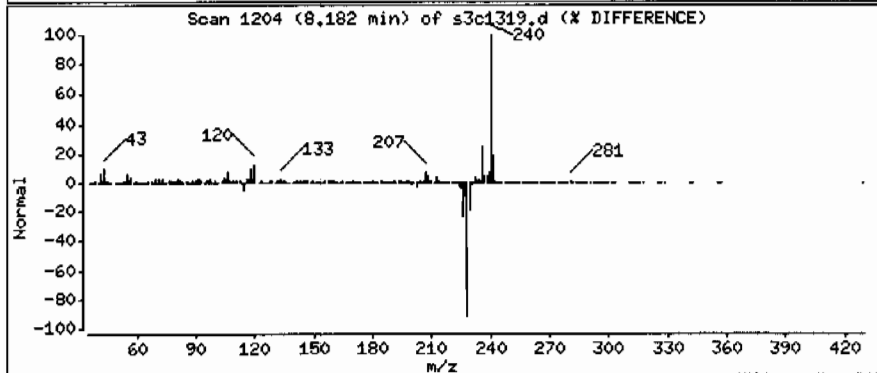
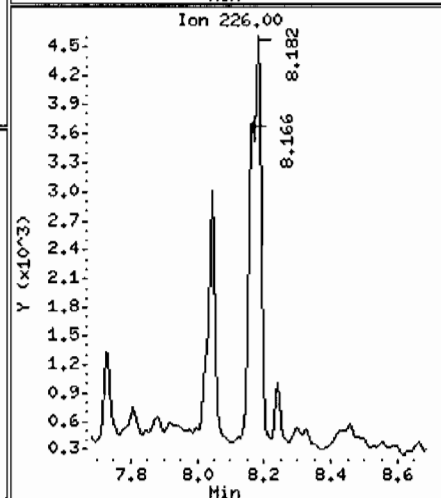
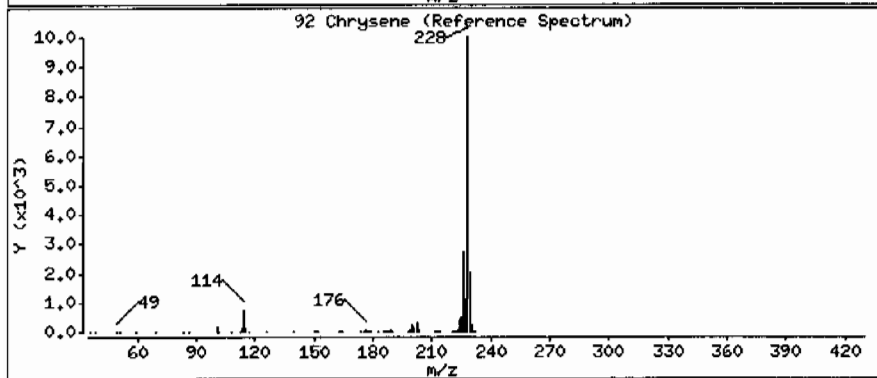
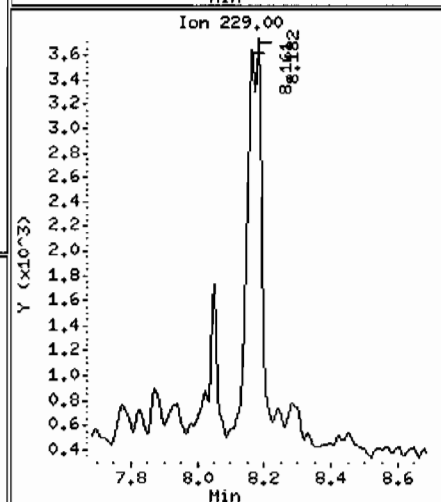
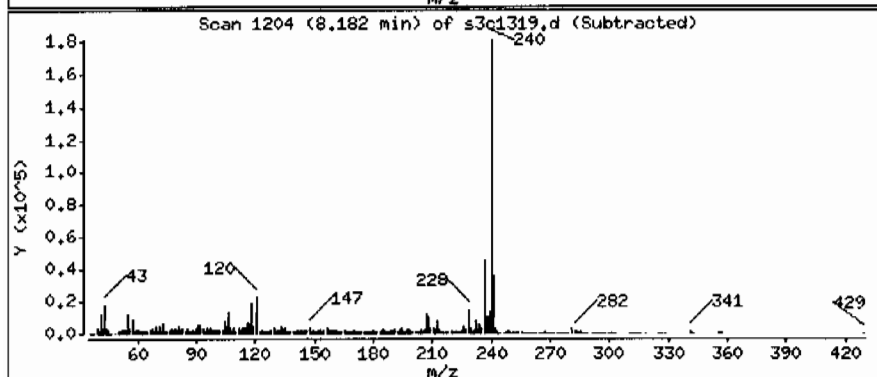
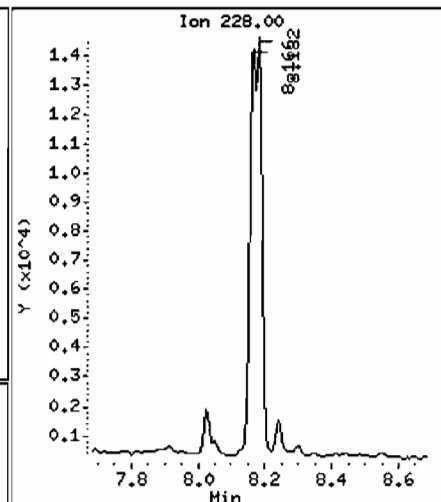
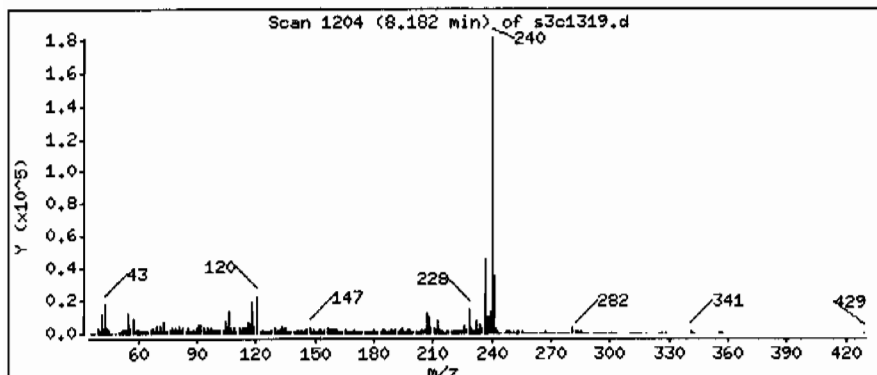
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 58.3 ug/Kg



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: HSD3.i

Sample Info: 12481970051960459121SVHF11ILANL

Volume Injected (uL): 0.5

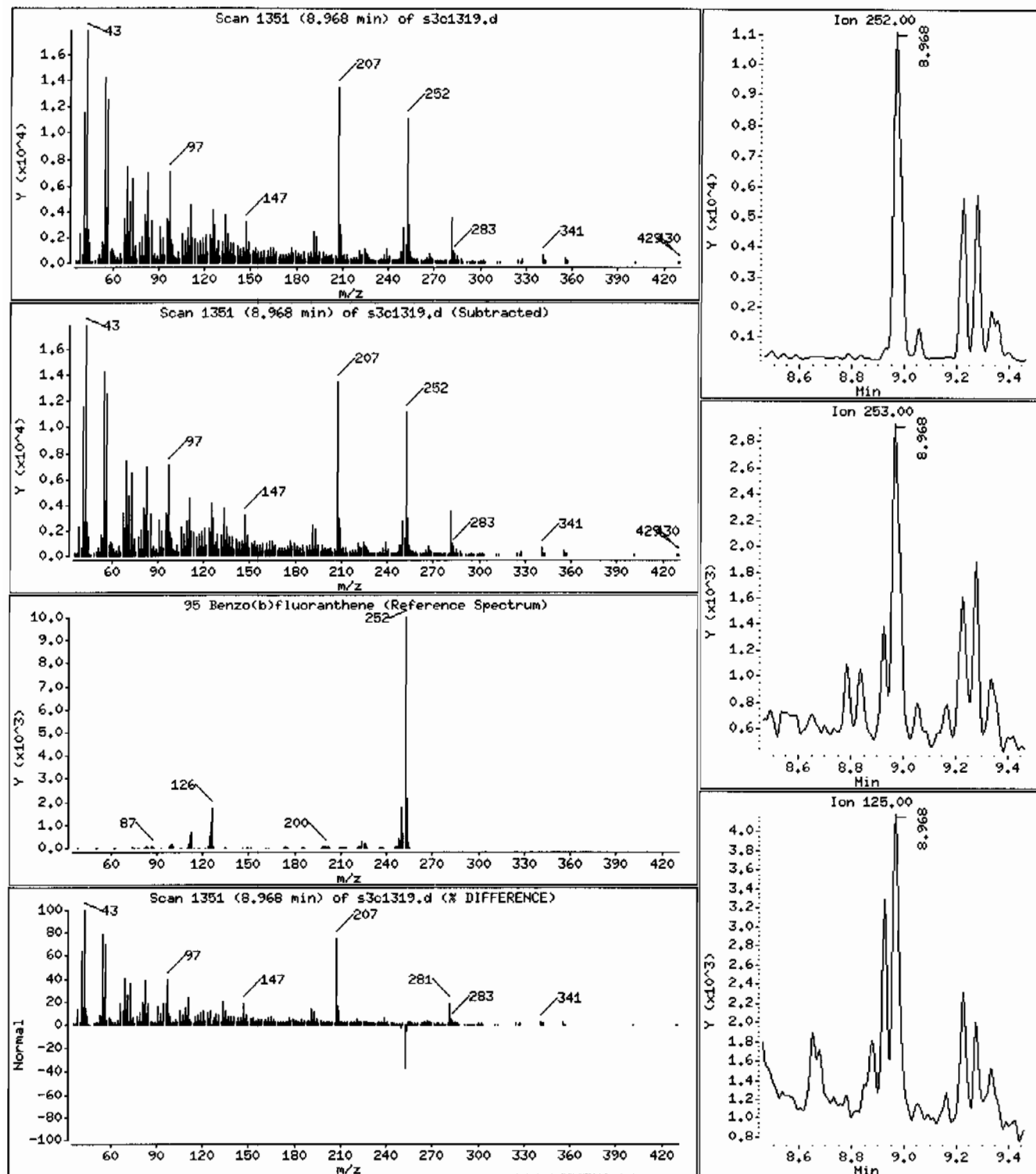
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 113 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVHF11ILANL

Volume Injected (uL): 0.5

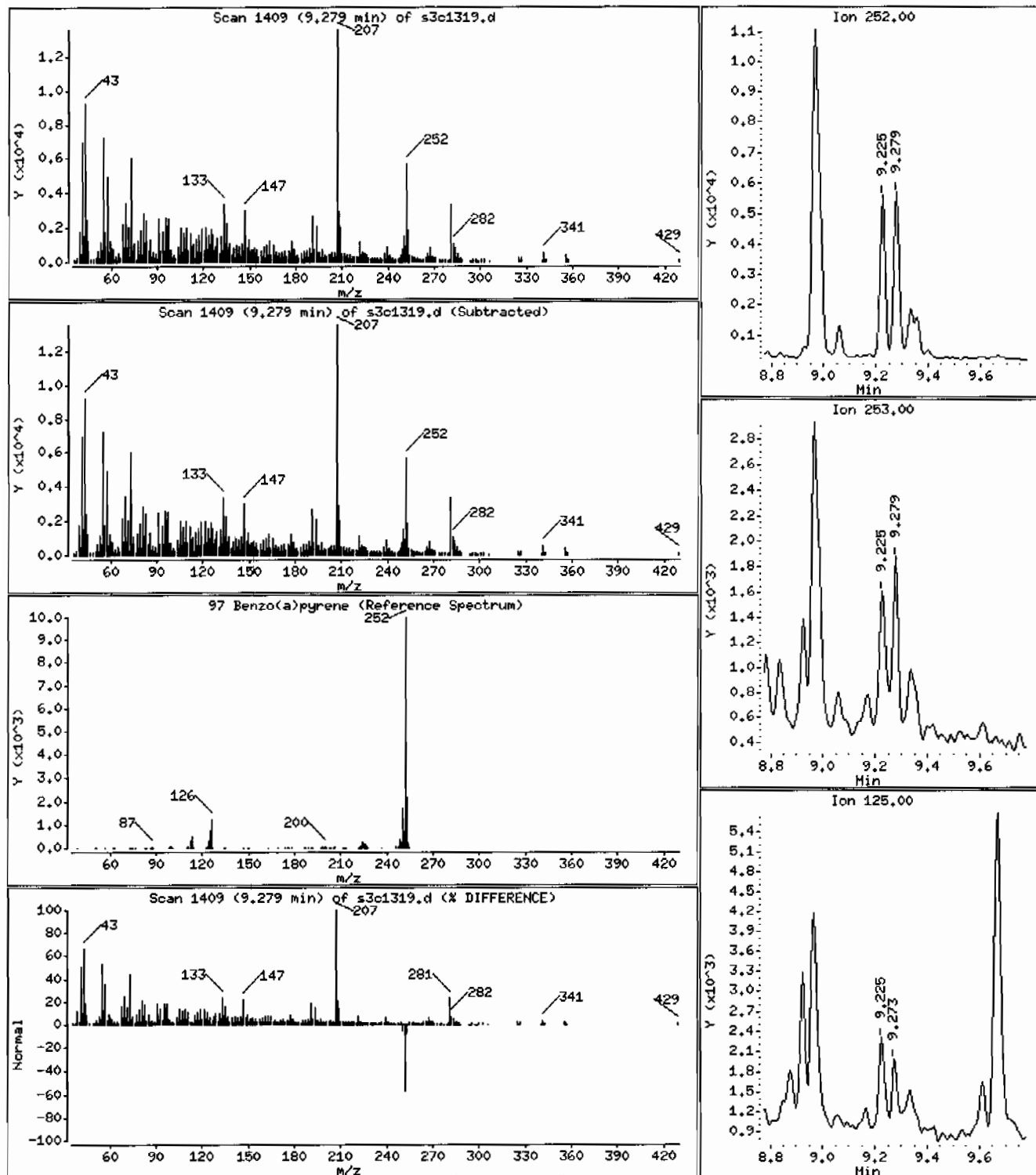
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 49.5 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.1

Sample Info: 1248197005196045912ISVHF11ILANL

Volume Injected (uL): 0.5

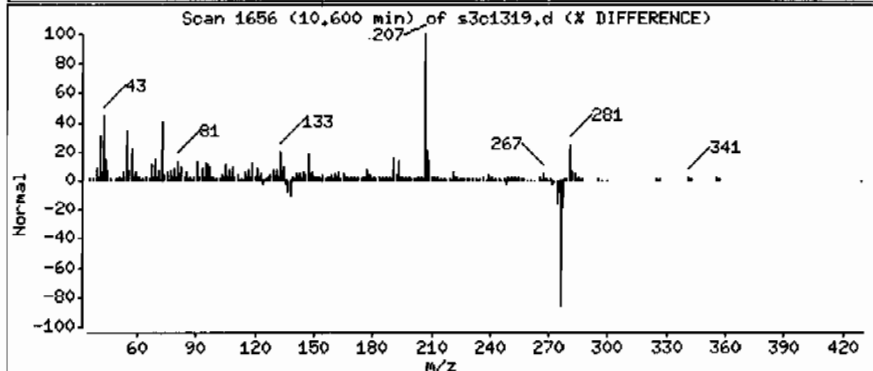
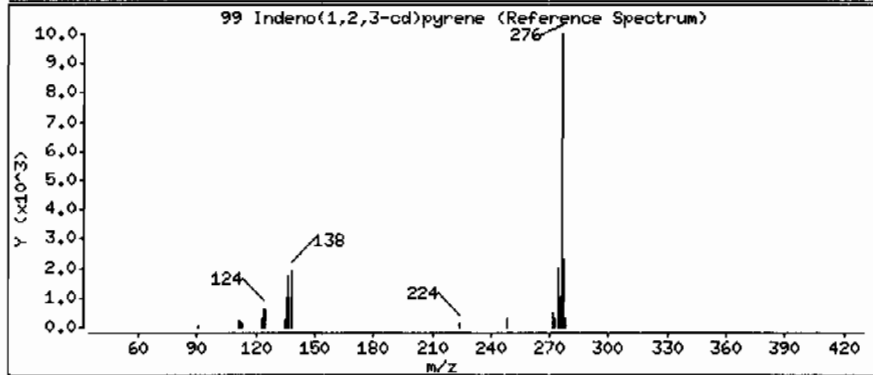
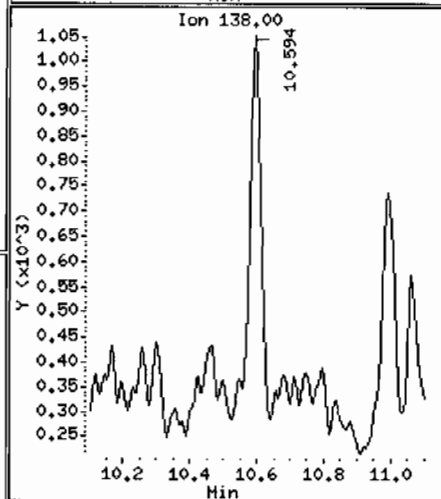
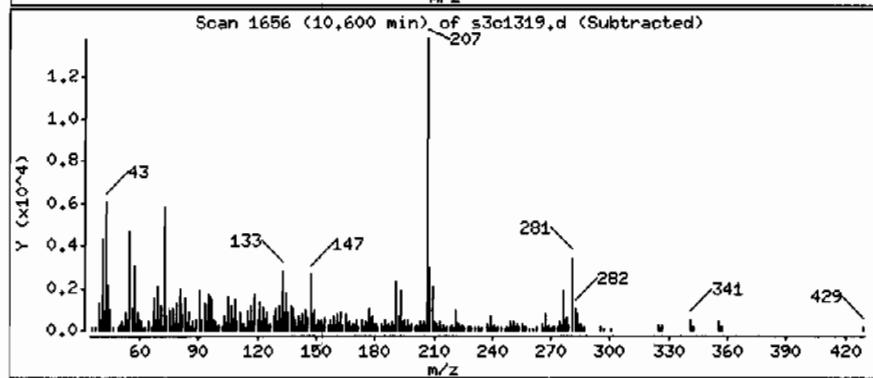
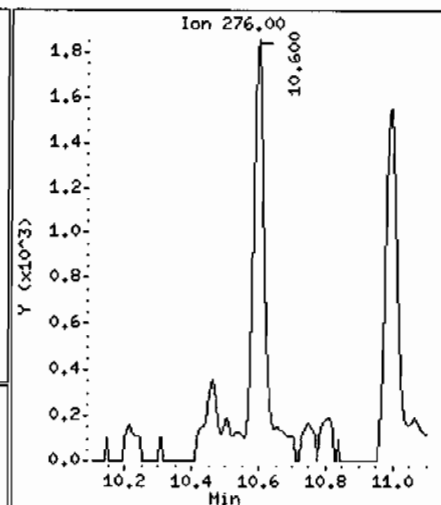
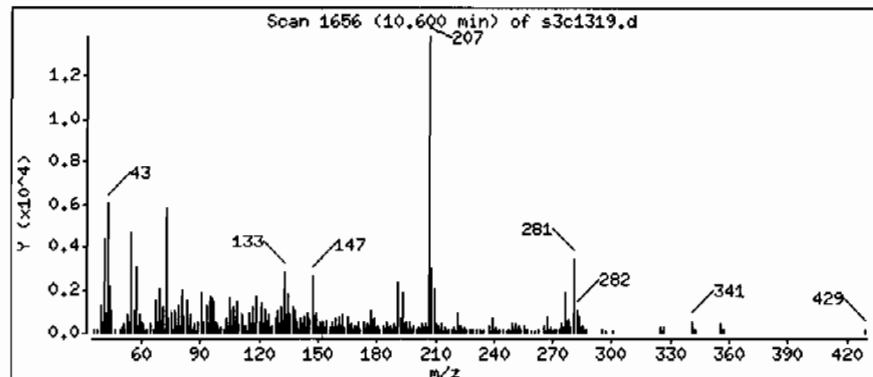
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 24.9 ug/Kg



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVMF11ILANL

Volume Injected (uL): 0.5

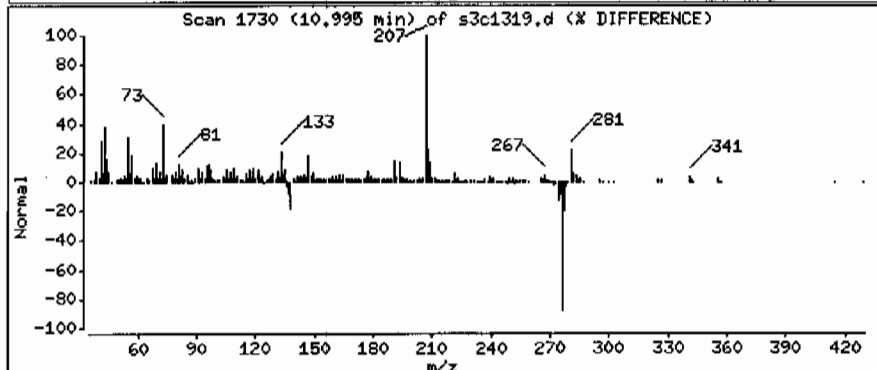
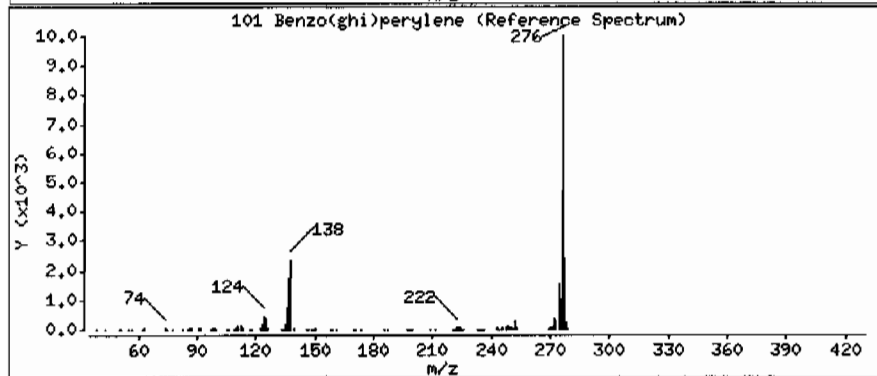
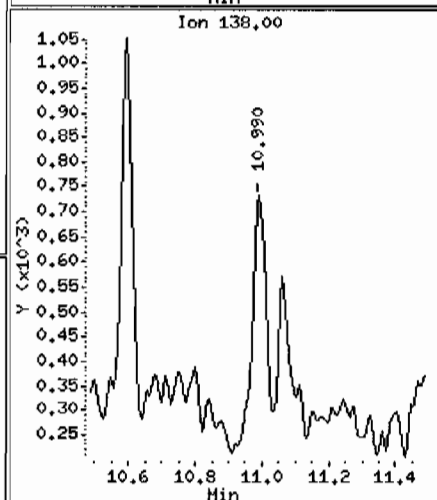
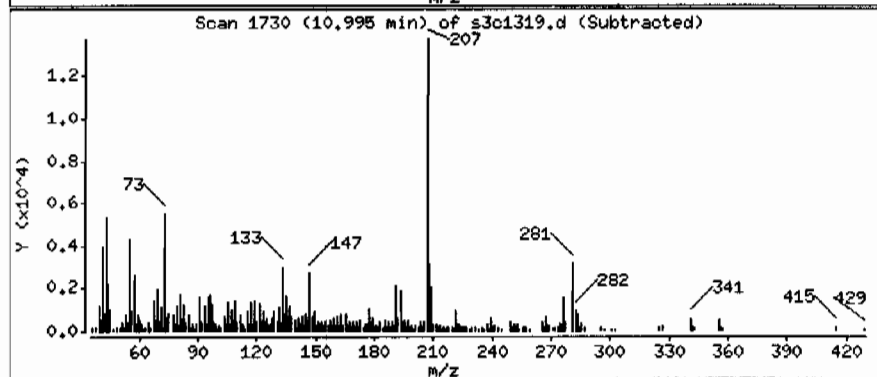
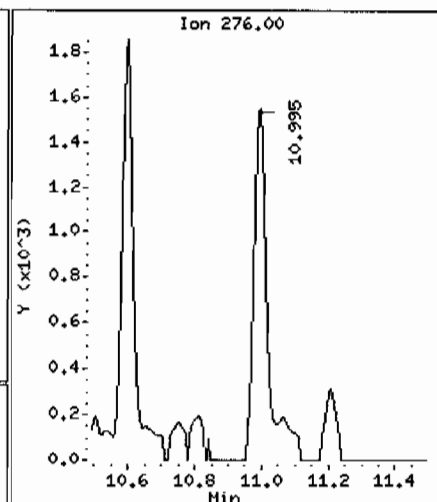
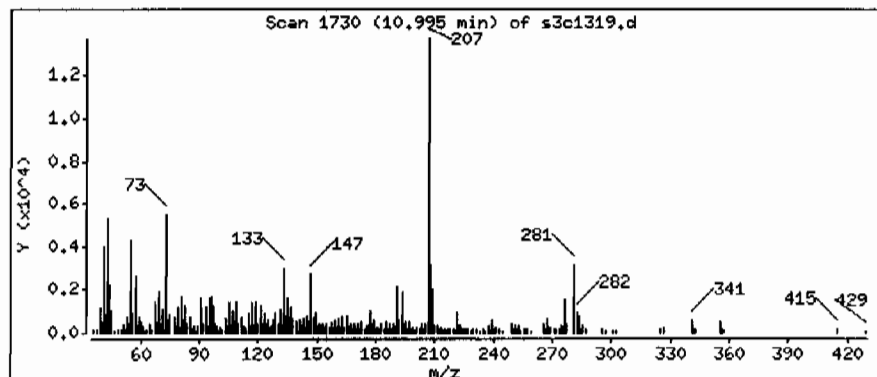
Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 32.7 ug/Kg



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.1

Sample Info: 12481970051960459121SVHF11ILANL

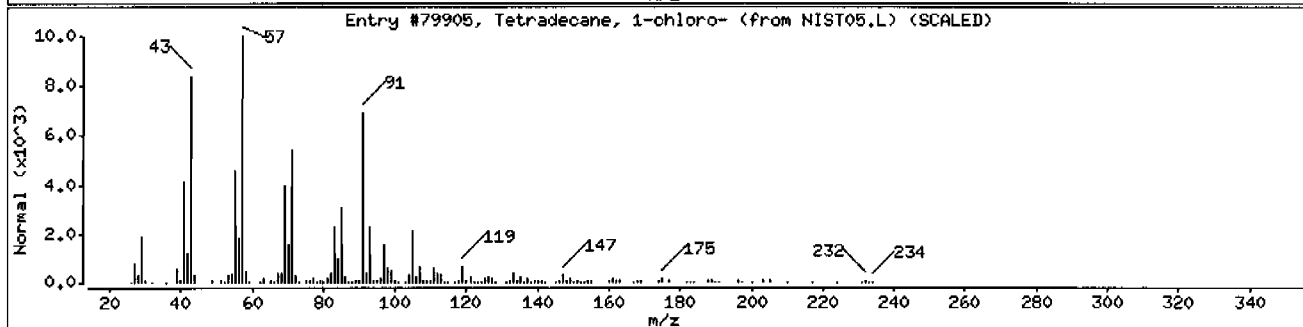
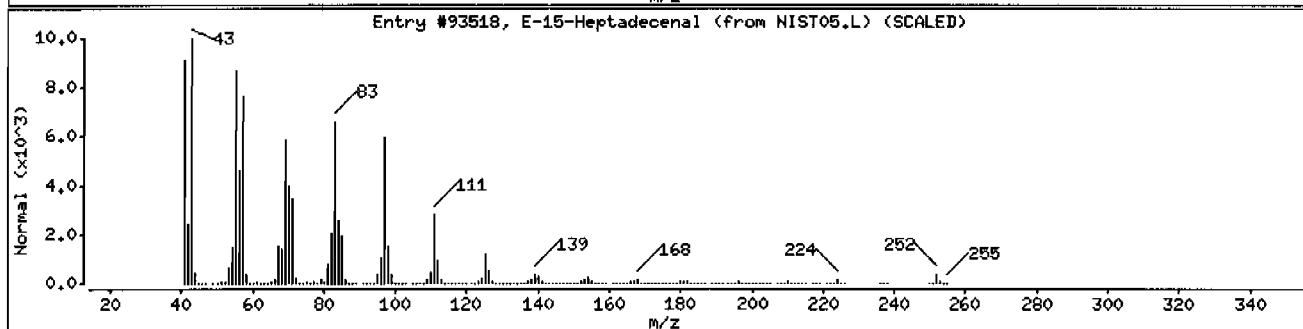
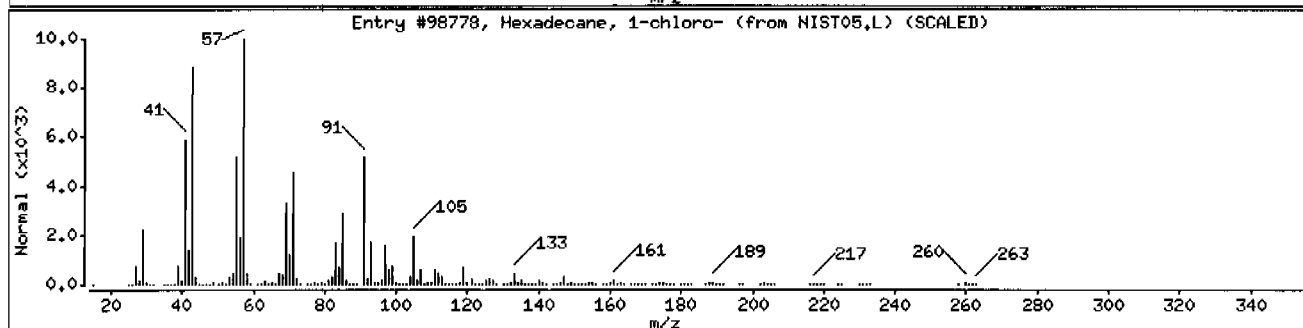
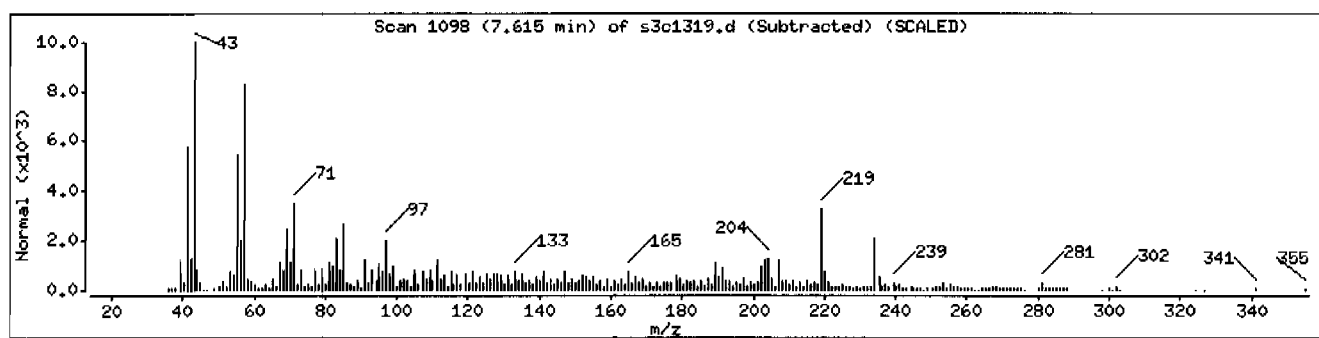
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecane, 1-chloro-	4860-03-1	NIST05.L	98778	44	C16H33Cl	260
E-15-Heptadecenal	1000130-97-9	NIST05.L	93518	25	C17H32O	252
Tetradecane, 1-chloro-	2425-54-9	NIST05.L	79905	25	C14H29Cl	232



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVMF111LANL

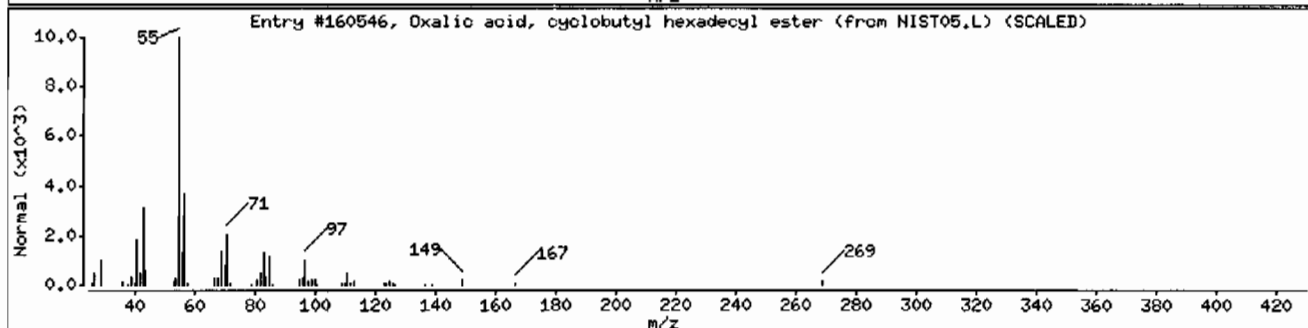
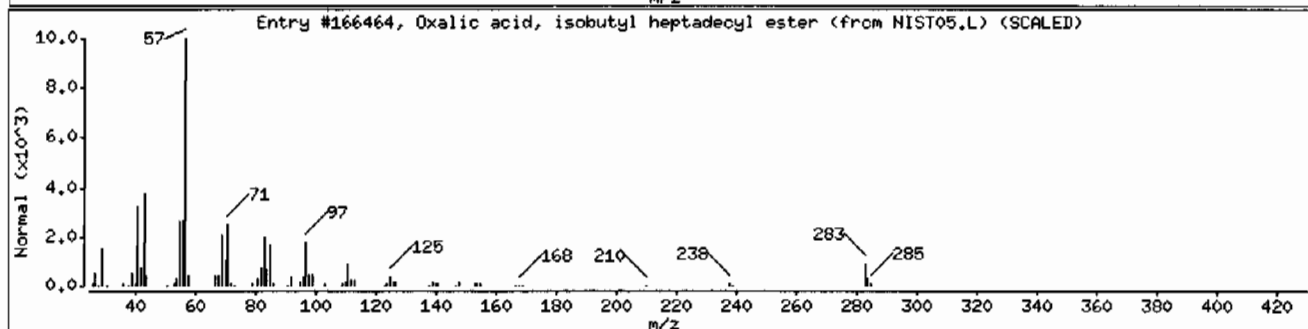
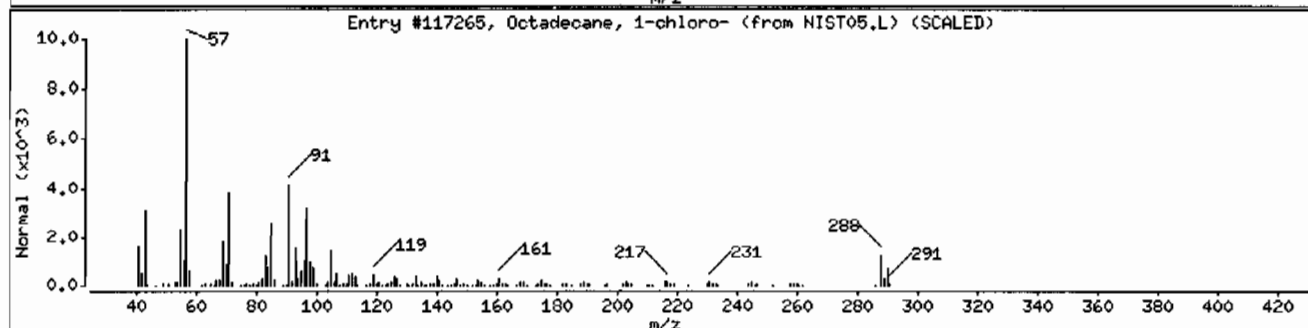
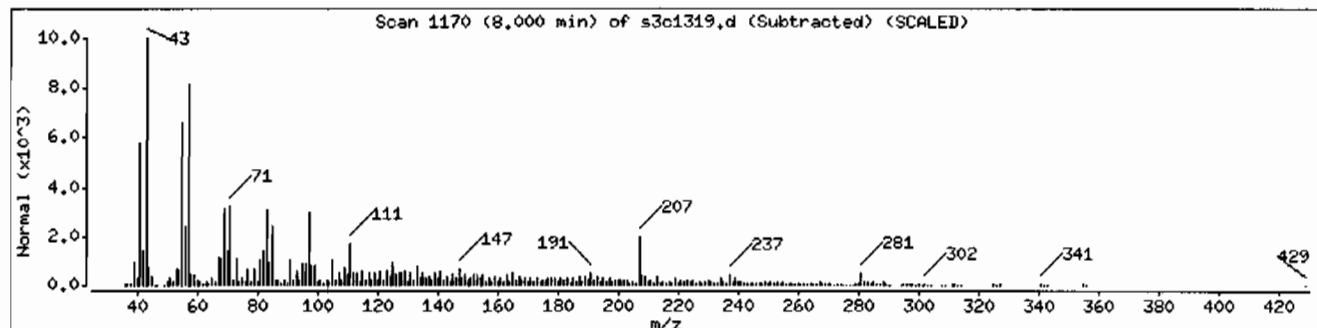
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octadecane, 1-chloro-	3386-33-2	NIST05.L	117265	89	C18H37Cl	288
Oxalic acid, isobutyl heptadecyl ester	1000309-38-2	NIST05.L	166464	70	C23H44O4	384
Oxalic acid, cyclobutyl hexadecyl ester	1000309-70-6	NIST05.L	160546	62	C22H40O4	368



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 1248197005196045912ISVMF11ILANL

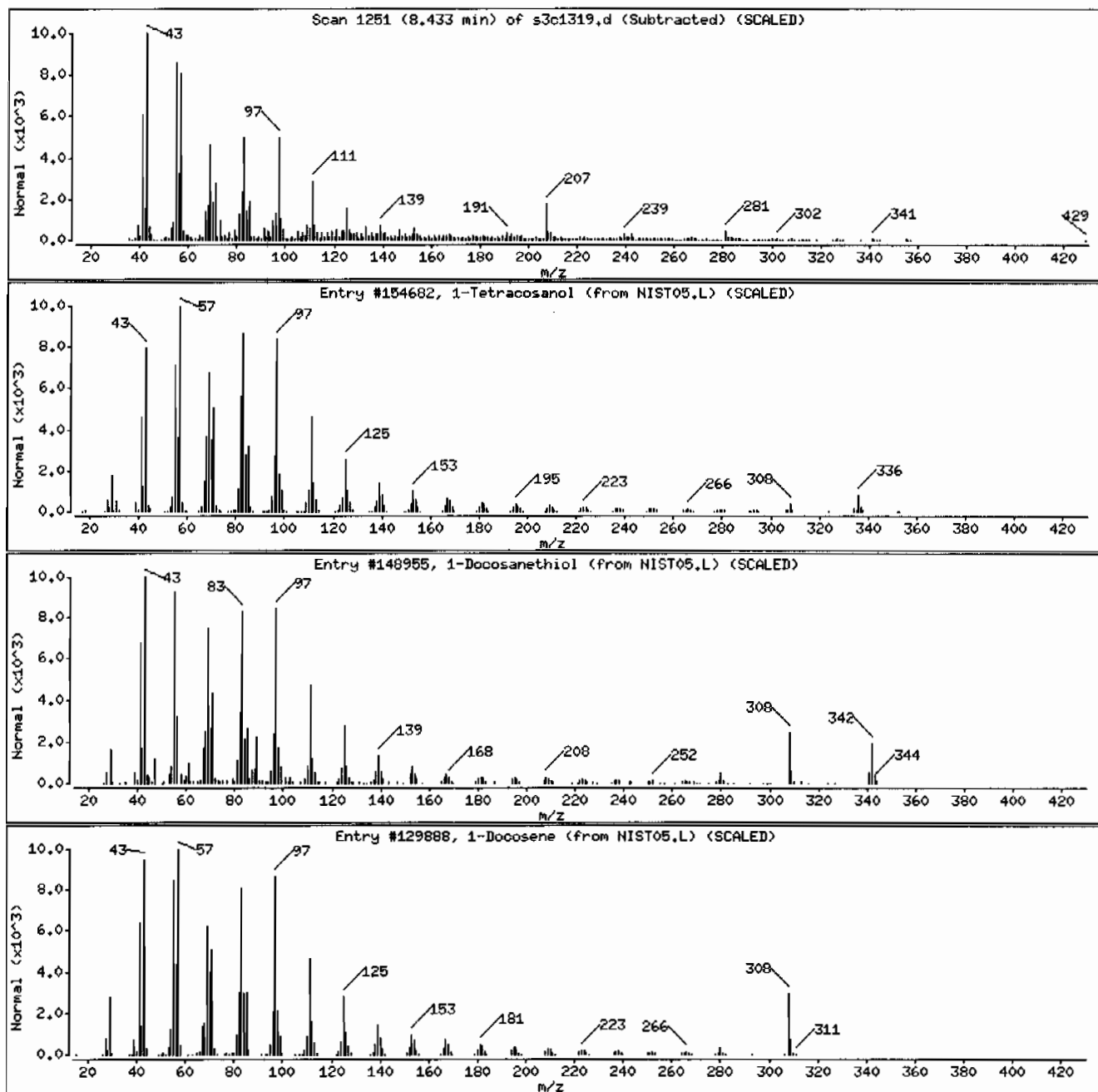
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Tetracosanol	506-51-4	NIST05.L	154682	87	C ₂₄ H ₅₀ O	354
1-Docosanethiol	7773-83-3	NIST05.L	148955	87	C ₂₂ H ₄₆ S	342
1-Docosene	1599-67-3	NIST05.L	129888	87	C ₂₂ H ₄₄	308



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVHF111LANL

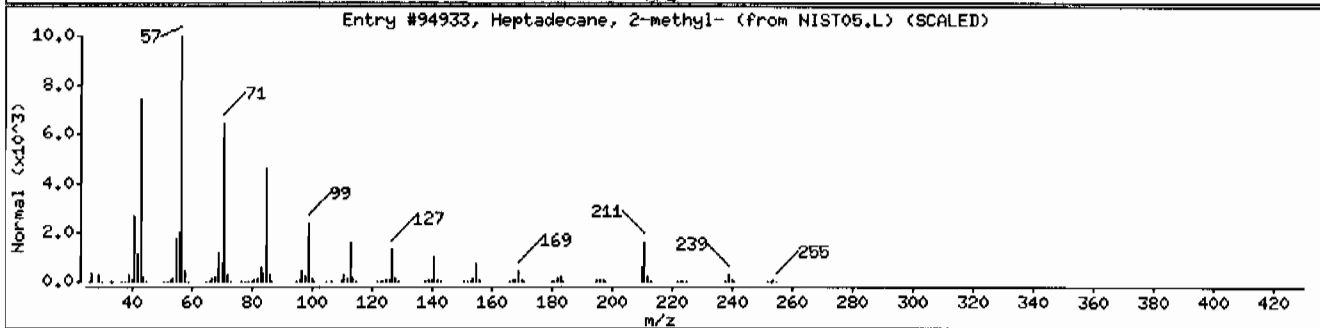
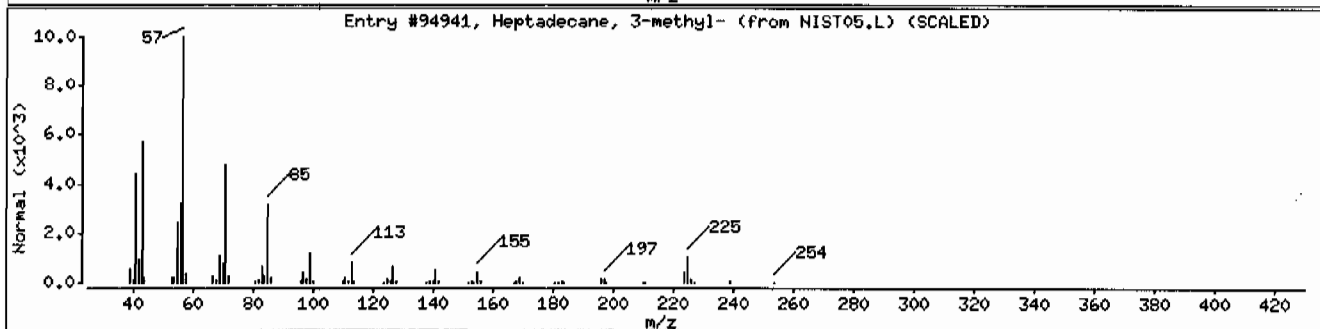
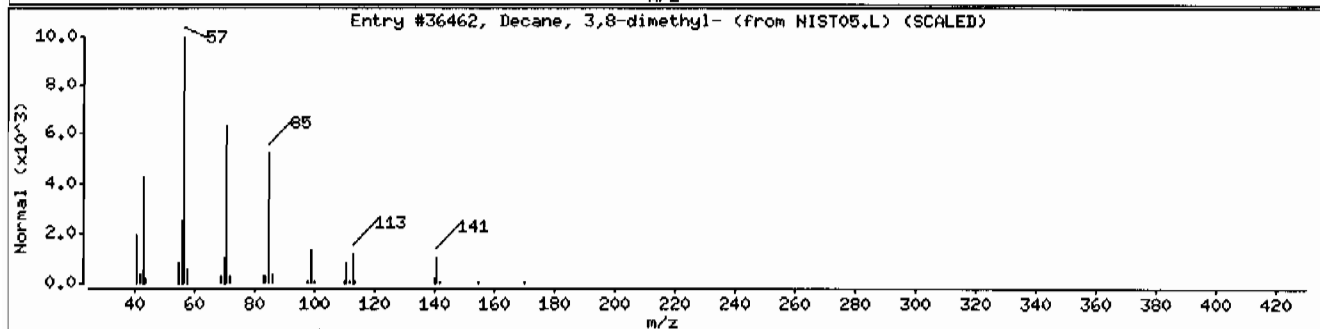
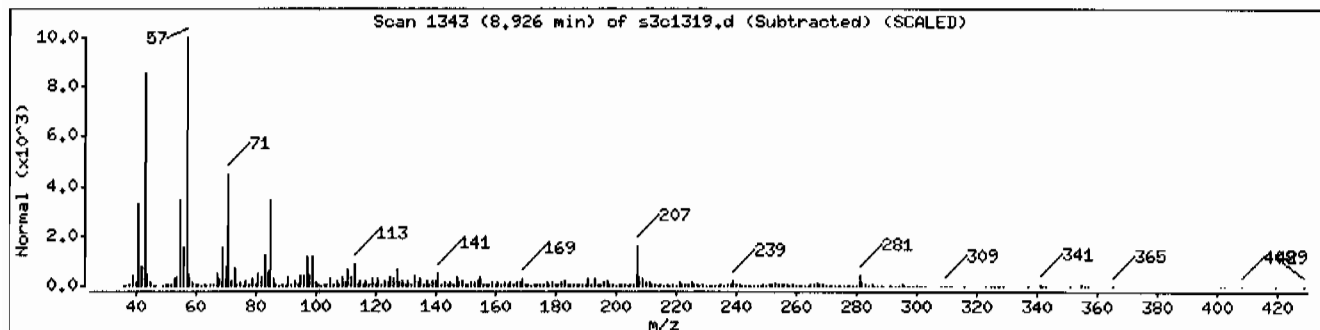
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	90	C ₁₂ H ₂₆	170
Heptadecane, 3-methyl-	6418-44-6	NIST05.L	94941	89	C ₁₈ H ₃₈	254
Heptadecane, 2-methyl-	1560-89-0	NIST05.L	94933	89	C ₁₈ H ₃₈	254



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: HSD3.i

Sample Info: 12481970051960459121SVHF111LANL

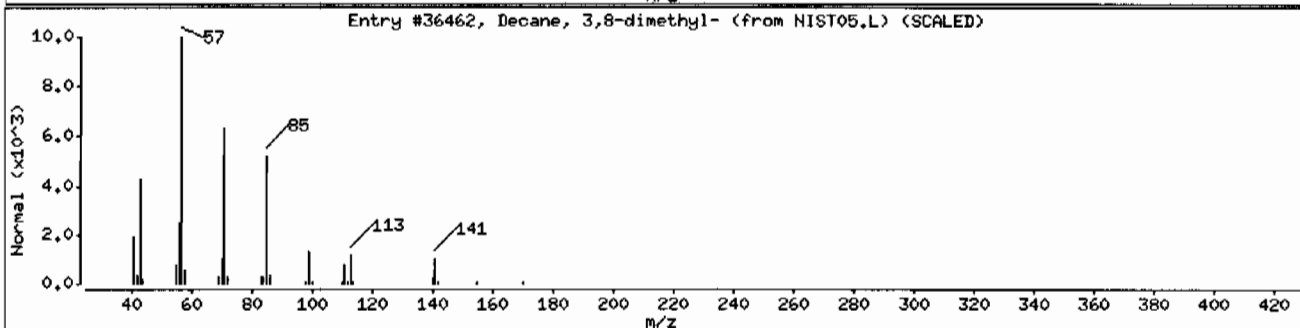
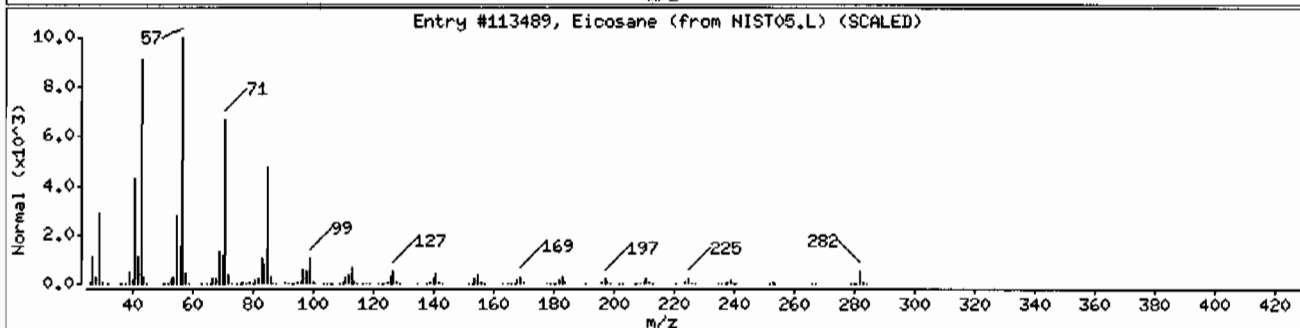
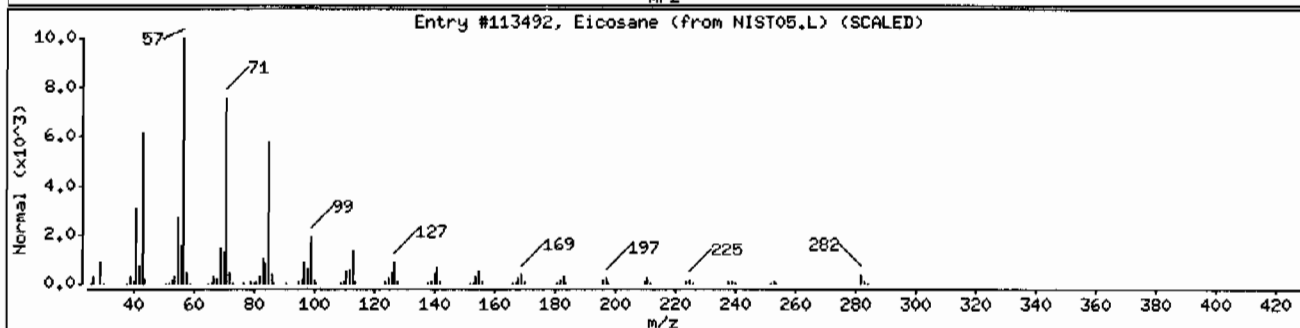
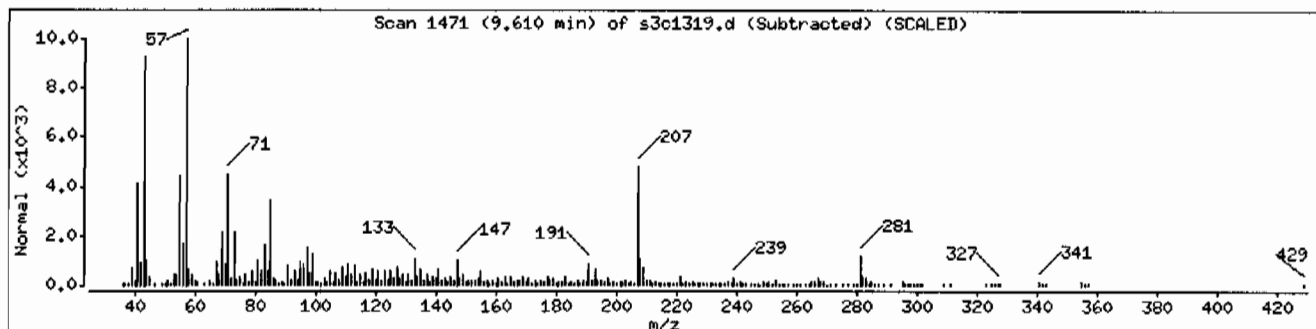
Volume Injected (uL): 0.5

Operator: JLD1

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	95	C20H42	282
Eicosane	112-95-8	NIST05.L	113489	83	C20H42	282
Decane, 3,8-dimethyl-	17312-55-9	NIST05.L	36462	80	C12H26	170



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 1248197005196045912ISVMF111LANL

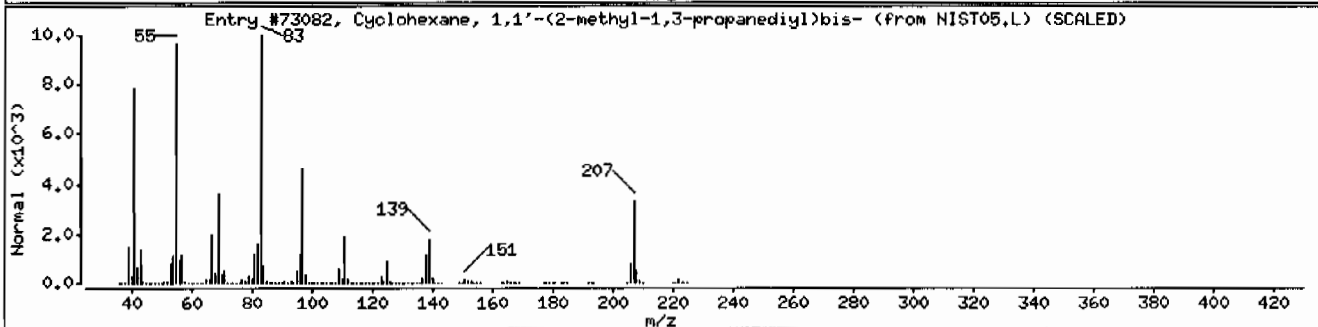
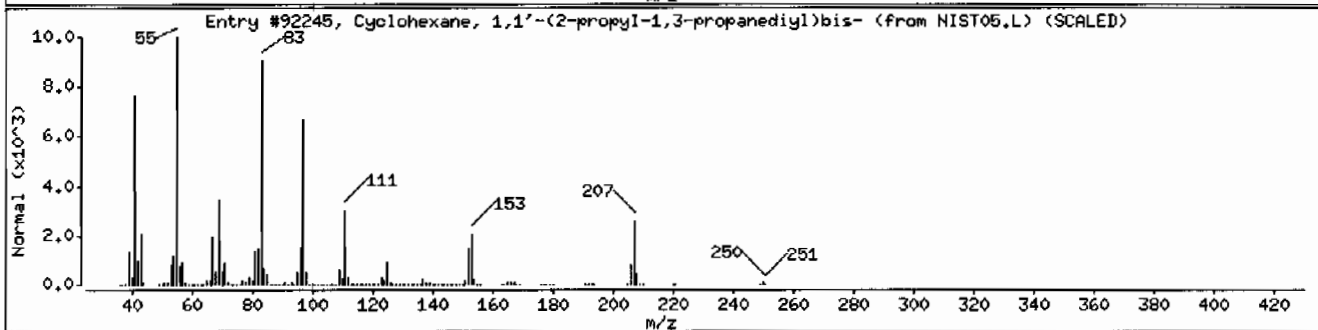
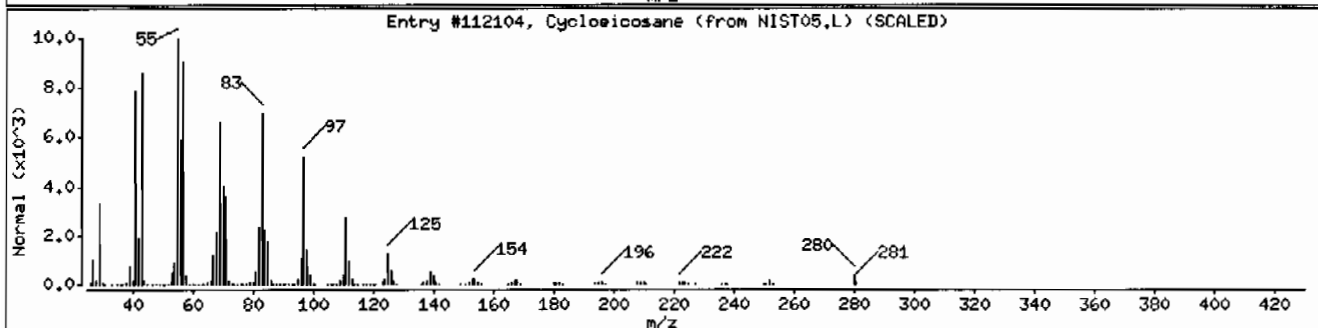
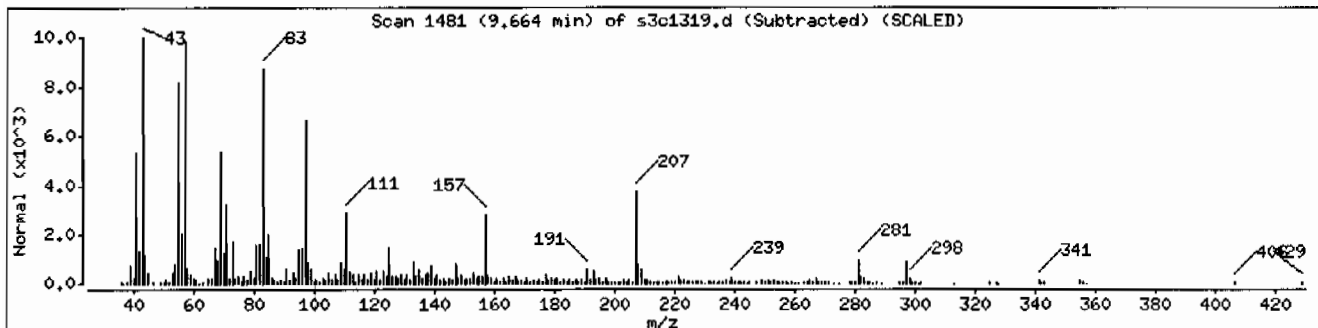
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cycloelicosane	296-56-0	NIST05.L	112104	62	C20H40	280
Cyclohexane, 1,1'-(2-propyl-1,3-propanediol)	55030-21-2	NIST05.L	92245	58	C18H34	250
Cyclohexane, 1,1'-(2-methyl-1,3-propanediol)	2883-08-1	NIST05.L	73082	53	C16H30	222



Date : 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVMF11ILANL

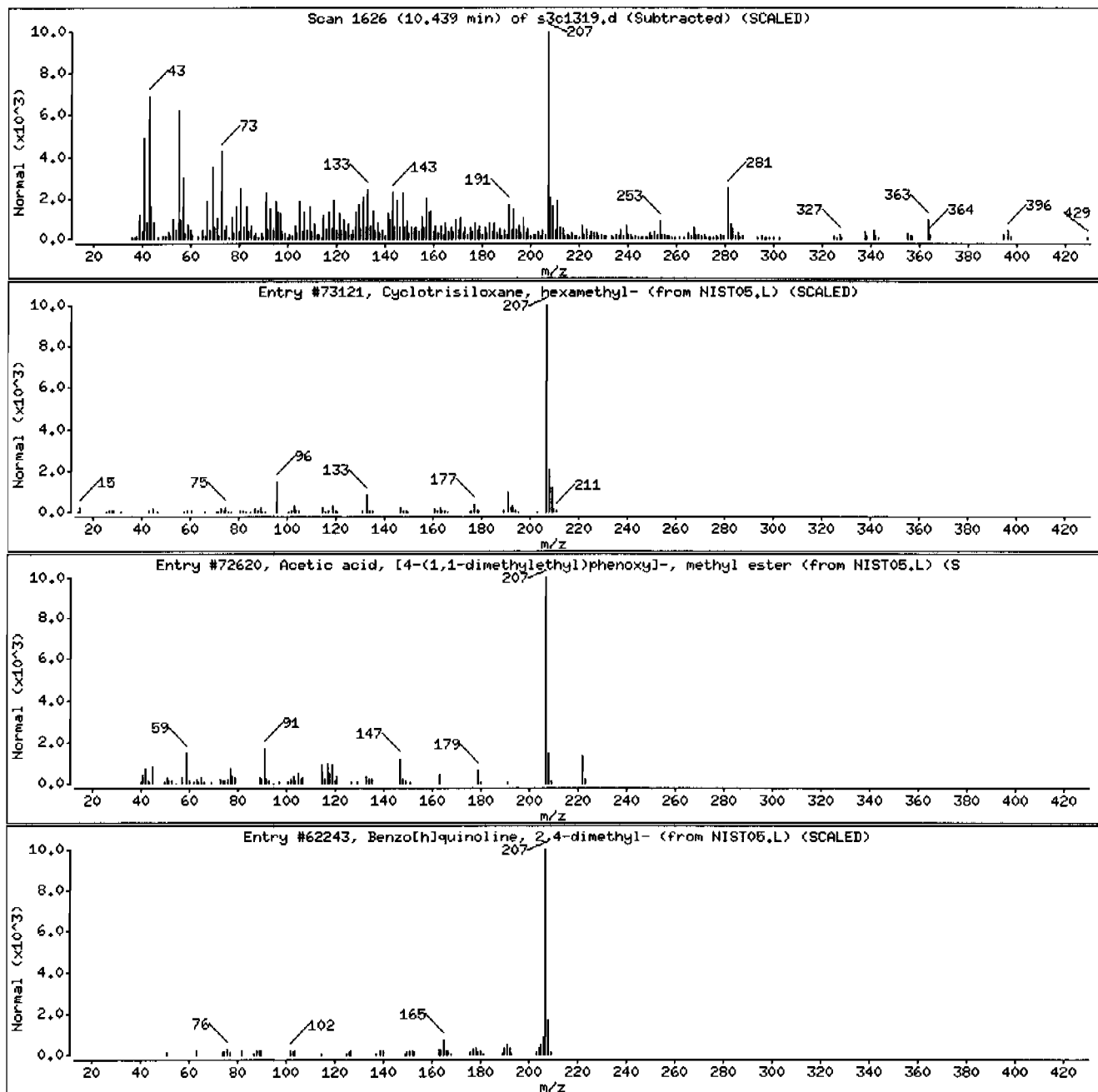
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST05.L	73121	38	C ₆ H ₁₈ O ₃ Si ₃	222
Acetic acid, [4-(1,1-dimethylethyl)pheno	88530-52-3	NIST05.L	72620	35	C ₁₃ H ₁₈ O ₃	222
Benzo[h]quinoline, 2,4-dimethyl-	605-67-4	NIST05.L	62243	30	C ₁₅ H ₁₃ N	207



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVMF111LANL

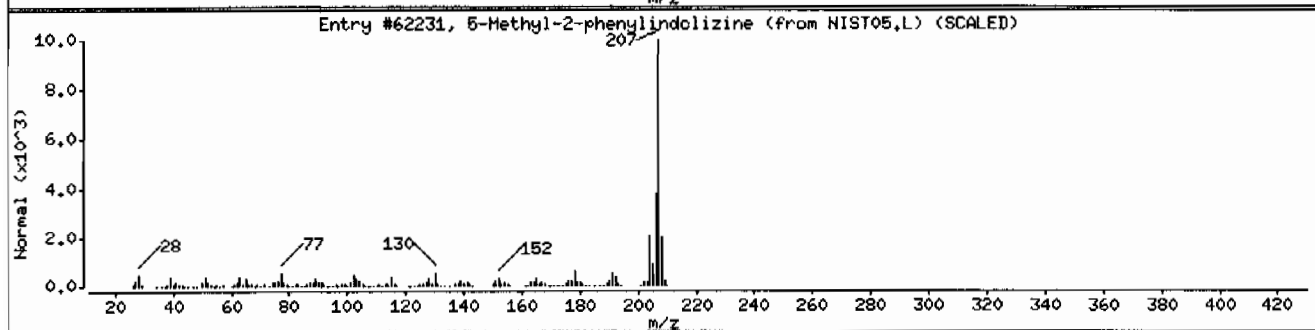
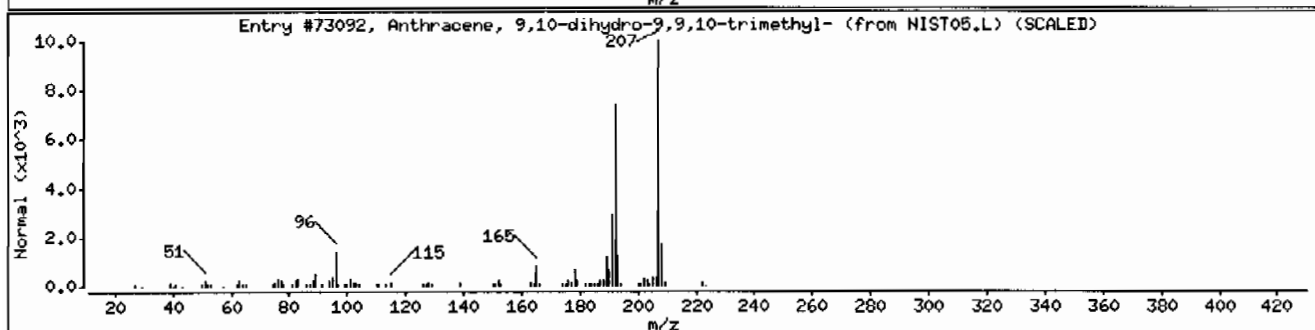
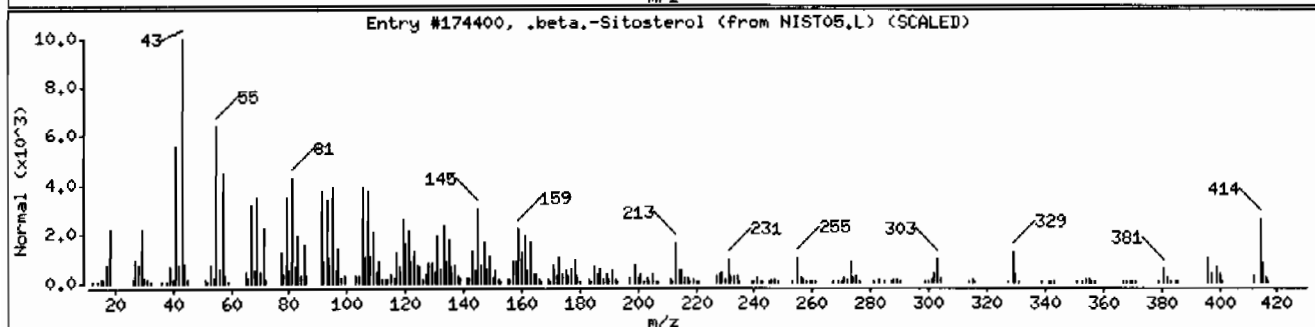
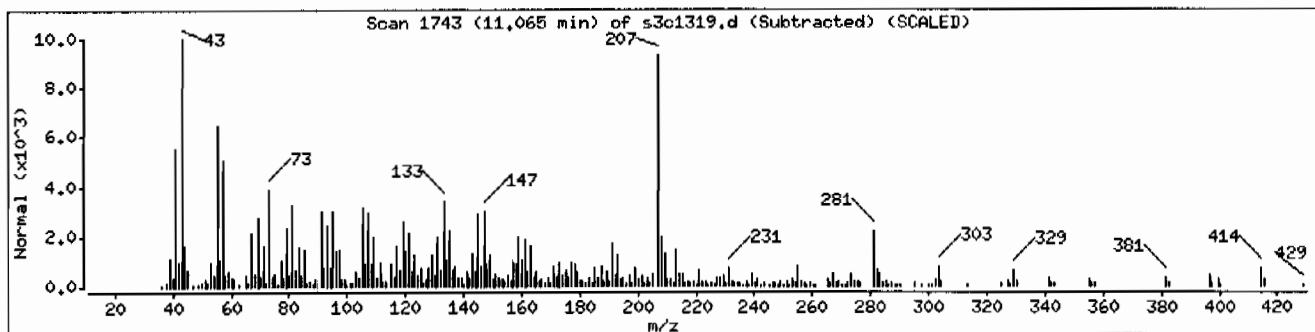
Volume Injected (uL): 0.5

Operator: JLD1

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	93	C29H50O	414
Anthracene, 9,10-dihydro-9,9,10-trimethyl	14923-29-6	NIST05.L	73092	42	C17H18	222
5-Methyl-2-phenylindolizine	36944-99-7	NIST05.L	62231	38	C15H13N	207



Date: 13-MAR-2010 16:56

Client ID: RE36-10-7516

Instrument: MSD3.i

Sample Info: 12481970051960459121SVHF111LANL

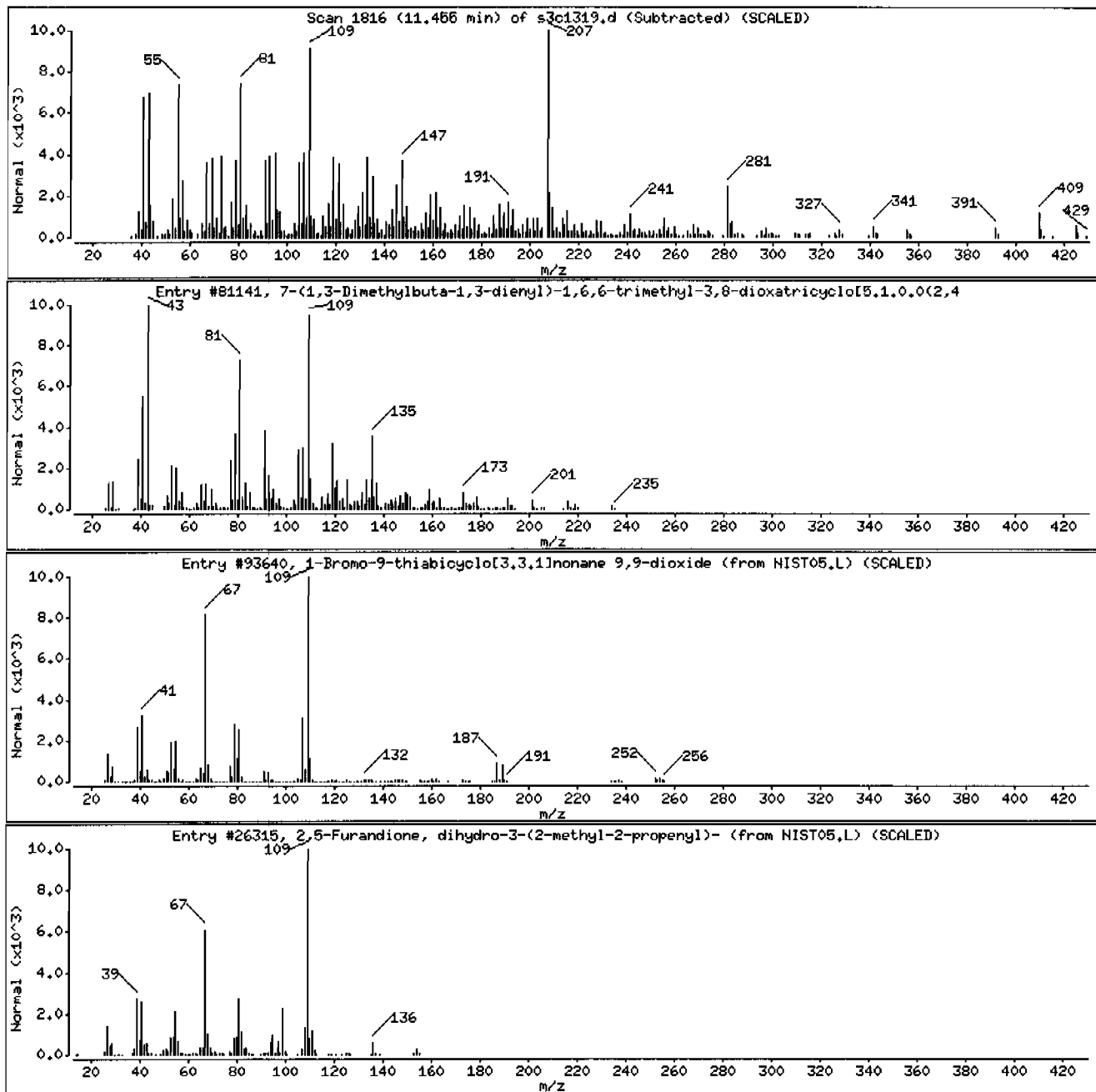
Volume Injected (uL): 0.5

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-(1,3-Dimethylbuta-1,3-dienyl)-1,6,6-tr	1000190-22-7	NIST05.L	81141	45	C15H22O2	234
1-Bromo-9-thiabicyclo[3.3.1]nonane 9,9-d	19669-16-0	NIST05.L	93640	35	C8H13BrO2S	252
2,5-Furandione, dihydro-3-(2-methyl-2-pr	18908-20-8	NIST05.L	26315	25	C8H10O3	154



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
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
Tributylphosphate			10	20	40	50	80	100
Triethylphosphorothioate			10	20	40	50	80	100
Thionazin			10	20	40	50	80	100
Sulfotepp			10	20	40	50	80	100
Phorate			10	20	40	50	80	100
Dimethoate			10	20	40	50	80	100
Disulfoton			10	20	40	50	80	100
Methyl parathion			10	20	40	50	80	100
Famphur			10	20	40	50	80	100
Parathion			10	20	40	50	80	100

SW846 8270/EPA 625								
Calibration Standard Concentration Levels*								
NEVADA MIX		Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7
bis(Chloromethyl)ether			10	20	40	50	80	100
4-Chlorothiophenol			10	20	40	50	80	100
4-Chlorothioanisole			10	20	40	50	80	100
Phthalic acid			10	20	40	50	80	100
Hydroxymethyl phthalimide			10	20	40	50	80	100
Diphenyl sulfide			10	20	40	50	80	100
Diphenyl disulfide			10	20	40	50	80	100
Phenyl sulfone			10	20	40	50	80	100
Octachlorostyrene			10	20	40	50	80	100
Thiophenol			10	20	40	50	80	100
2,2'-Dichlorobenzil			10	20	40	50	80	100
bis(p-Chlorophenyl)disulfide			10	20	40	50	80	100

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,j)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: 13-Mar-2010 14:18

Calibration History

Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

Start Cal Date: 09-MAR-2010 16:24

End Cal Date : 10-MAR-2010 07:50

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
09-MAR-2010 16:24	MEGAI	/chem/MSD3.i/s030910a.b/s3c0919.d
Cal Level: 2 , Cal Amount: 10.00000		
10-MAR-2010 05:06	BJCO	/chem/MSD3.i/s030910a.b/s3c0955.d
10-MAR-2010 01:41	HEX	/chem/MSD3.i/s030910a.b/s3c0944.d
09-MAR-2010 23:25	PEST	/chem/MSD3.i/s030910a.b/s3c0937.d
09-MAR-2010 21:10	AP12	/chem/MSD3.i/s030910a.b/s3c0930.d
09-MAR-2010 16:47	MEGAI	/chem/MSD3.i/s030910a.b/s3c0920.d
Cal Level: 3 , Cal Amount: 20.00000		
10-MAR-2010 05:30	BJCO	/chem/MSD3.i/s030910a.b/s3c0956.d
10-MAR-2010 02:00	HEX	/chem/MSD3.i/s030910a.b/s3c0945.d
09-MAR-2010 23:45	PEST	/chem/MSD3.i/s030910a.b/s3c0938.d
09-MAR-2010 21:29	AP12	/chem/MSD3.i/s030910a.b/s3c0931.d
09-MAR-2010 17:11	MEGAI	/chem/MSD3.i/s030910a.b/s3c0921.d
Cal Level: 4 , Cal Amount: 40.00000		
10-MAR-2010 05:53	BJCO	/chem/MSD3.i/s030910a.b/s3c0957.d
10-MAR-2010 02:19	HEX	/chem/MSD3.i/s030910a.b/s3c0946.d
10-MAR-2010 00:04	PEST	/chem/MSD3.i/s030910a.b/s3c0939.d
09-MAR-2010 21:49	AP12	/chem/MSD3.i/s030910a.b/s3c0932.d
09-MAR-2010 17:34	MEGAI	/chem/MSD3.i/s030910a.b/s3c0922.d
Cal Level: 5 , Cal Amount: 50.00000		
10-MAR-2010 06:16	BJCO	/chem/MSD3.i/s030910a.b/s3c0958.d
10-MAR-2010 02:38	HEX	/chem/MSD3.i/s030910a.b/s3c0947.d
10-MAR-2010 00:24	PEST	/chem/MSD3.i/s030910a.b/s3c0940.d
09-MAR-2010 22:08	AP12	/chem/MSD3.i/s030910a.b/s3c0933.d
09-MAR-2010 17:58	MEGAI	/chem/MSD3.i/s030910a.b/s3c0923.d
Cal Level: 6 , Cal Amount: 80.00000		
10-MAR-2010 06:40	BJCO	/chem/MSD3.i/s030910a.b/s3c0959.d
10-MAR-2010 02:57	HEX	/chem/MSD3.i/s030910a.b/s3c0948.d
10-MAR-2010 00:43	PEST	/chem/MSD3.i/s030910a.b/s3c0941.d
09-MAR-2010 22:27	AP12	/chem/MSD3.i/s030910a.b/s3c0934.d
09-MAR-2010 18:22	MEGAI	/chem/MSD3.i/s030910a.b/s3c0924.d
Cal Level: 7 , Cal Amount: 100.00000		

10-MAR-2010 07:03	BJCO	/chem/MSD3.i/s030910a.b/s3c0960.d
10-MAR-2010 03:16	HEX	/chem/MSD3.i/s030910a.b/s3c0949.d
10-MAR-2010 01:02	PEST	/chem/MSD3.i/s030910a.b/s3c0942.d
09-MAR-2010 22:47	AP12	/chem/MSD3.i/s030910a.b/s3c0935.d
09-MAR-2010 18:46	MEGAI	/chem/MSD3.i/s030910a.b/s3c0925.d

Cal Level: 8 , Cal Amount: 120.00000		
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10-MAR-2010 07:27	BJCO	/chem/MSD3.i/s030910a.b/s3c0961.d
10-MAR-2010 01:21	PEST	/chem/MSD3.i/s030910a.b/s3c0943.d
09-MAR-2010 23:06	AP12	/chem/MSD3.i/s030910a.b/s3c0936.d
09-MAR-2010 19:10	MEGAI	/chem/MSD3.i/s030910a.b/s3c0926.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0		
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13-MAR-2010 12:34	BJCO	/chem/MSD3.i/s031310.b/s3c1306.d
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Ccal Level: 4 , Ccal Amount: 40.0		
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13-MAR-2010 11:56	PEST	/chem/MSD3.i/s031310.b/s3c1305.d
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Ccal Level: 4 , Ccal Amount: 40.0		
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13-MAR-2010 11:36	AP12	/chem/MSD3.i/s031310.b/s3c1304.d
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Ccal Level: 4 , Ccal Amount: 40.0		
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13-MAR-2010 11:13	MEGAI	/chem/MSD3.i/s031310.b/s3c1303.d
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Ccal Level: 4 , Ccal Amount: 40.0		
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13-MAR-2010 10:49	MEGAI	/chem/MSD3.i/s031310.b/s3c1302.d
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GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 16:24
 End Cal Date : 10-MAR-2010 07:50
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

Calibration File Names:

Level 1: /chem/MSD3.i/s030910a.b/s3c0919.d
 Level 2: /chem/MSD3.i/s030910a.b/s3c0955.d
 Level 3: /chem/MSD3.i/s030910a.b/s3c0956.d
 Level 4: /chem/MSD3.i/s030910a.b/s3c0957.d
 Level 5: /chem/MSD3.i/s030910a.b/s3c0958.d
 Level 6: /chem/MSD3.i/s030910a.b/s3c0959.d
 Level 7: /chem/MSD3.i/s030910a.b/s3c0960.d
 Level 8: /chem/MSD3.i/s030910a.b/s3c0961.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coeficients m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	++++ 0.49057	0.45322 0.46343	0.47547	0.46018	0.45564	0.46263	AVRG	0.46588			2.79251
2 Pyridine	++++ 0.74659	0.69567 0.72020	0.71252	0.68440	0.68606	0.71393	AVRG	0.70848			3.09337
4 Aniline	++++ 0.47052	0.44823 0.45434	0.46468	0.45903	0.44957	0.45951	AVRG	0.45798			1.74823
209 Benzaldehyde	++++ 0.66748	0.67992 0.62933	0.73747	0.69042	0.70492	0.66005	AVRG	0.68137			5.06326
6 Phenol	++++ 1.09748	1.05573 1.08167	1.12106	1.08738	1.06941	1.09696	AVRG	1.08710			1.94584

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 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

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
7 bis (2-Chloroethyl) ether	0.85993 0.75785	0.78520 0.74762	0.81587	0.77932	0.76250	0.76891	AVRG		0.78465		4.69459
8 2-Chlorophenol	++++ 1.06727	1.06949 1.05808	1.10238	1.07244	1.06083	1.07083	AVRG		1.07160		1.35951
203 n-Decane	++++ ++++	1.57431 ++++	1.58477	1.31846	1.29461	1.19098	AVRG		1.39262		12.72920
9 1,3-Dichlorobenzene	++++ 1.18769	1.20883 1.18331	1.25922	1.19224	1.17576	1.18309	AVRG		1.19859		2.39285
11 1,4-Dichlorobenzene	++++ 1.21919	1.28448 1.22246	1.33237	1.23399	1.22119	1.23284	AVRG		1.24950		3.43614
12 Benzyl alcohol	++++ 0.64562	0.57809 0.64517	0.62603	0.63169	0.62750	0.63970	AVRG		0.62769		3.70801
13 1,2-Dichlorobenzene	++++ 1.13446	1.18110 1.13468	1.21021	1.12935	1.13166	1.12828	AVRG		1.14996		2.81861
14 bis (2-Chloroisopropyl) ether	++++ 1.81532	2.21176 1.79501	2.18457	1.98830	1.97106	1.89351	AVRG		1.97993		8.36372
15 o-Cresol	++++ 0.75216	0.76411 0.74785	0.80760	0.73238	0.73240	0.74416	AVRG		0.75438		3.44234

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 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
16 Acetophenone	++++ 1.08387	1.07890 1.06643	1.15507	1.08900	1.12239	1.06986	AVRG		1.09508		2.94147
17 N-Nitrosodipropylamine	0.57298 0.60551	0.60584 0.60152	0.62289	0.61444	0.59974	0.60693	AVRG		0.60373		2.39682
18 m,p-Cresols	++++ 0.97922	0.91979 0.98553	0.97261	0.95335	0.94025	0.96699	AVRG		0.95968		2.43638
19 Hexachloroethane	++++ 0.47192	0.47681 0.47033	0.49388	0.47089	0.47107	0.47451	AVRG		0.47563		1.76027
21 Nitrobenzene	++++ 0.20942	0.24964 0.19832	0.24788	0.23468	0.22807	0.21104	AVRG		0.22558		8.83164
22 Isophorone	++++ 0.39022	0.44643 0.36943	0.44990	0.42477	0.41068	0.39733	AVRG		0.41268		7.19185
23 2-Nitrophenol	++++ 0.12551	0.14657 0.11989	0.15932	0.14117	0.13748	0.12858	AVRG		0.13693		9.90083
24 2,4-Dimethylphenol	++++ 0.21230	0.25510 0.20112	0.24993	0.23540	0.22714	0.21737	AVRG		0.22834		8.67064
25 bis(2-Chloroethoxy)methane	++++ 0.24385	0.28947 0.23134	0.29171	0.27137	0.26024	0.25051	AVRG		0.26264		8.69174

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

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	++++ 0.19069	0.20262 0.18158	0.21058	0.20417	0.19953	0.19385	AVRG		0.19757		4.88569
27 Benzoic acid	++++ 841353	++++ 826433	27136	236874	283168	558017	LINR	0.40354	0.16390		0.99491
28 1,2,4-Trichlorobenzene	++++ 0.20788	0.24939 0.20001	0.25110	0.23226	0.22282	0.21431	AVRG		0.22540		8.80613
30 Naphthalene	0.99602 0.67686	0.87161 0.64824	0.88003	0.79143	0.76736	0.71754	AVRG		0.79364		14.73777
204 alpha-Terpineol	++++ 0.18328	0.23844 0.17693	0.24077	0.21308	0.20824	0.19614	AVRG		0.20813		12.00096
31 4-Chloroaniline	++++ 0.29919	0.31218 0.28376	0.29527	0.33445	0.32371	0.29765	AVRG		0.30660		5.78368
189 Caprolactam	++++ 0.08387	0.09918 0.08178	0.08166	0.08278	0.08635	0.08461	AVRG		0.08146		6.94810
32 Hexachlorobutadiene	++++ 0.10913	0.12567 0.10260	0.12397	0.11830	0.11642	0.10919	AVRG		0.11504		7.35289
33 4-Chloro-3-methylphenol	++++ 0.19263	0.20553 0.18314	0.21294	0.20834	0.20283	0.19453	AVRG		0.19999		5.17985

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 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	Coefficients	m2	%RSD or R^2
	Level 100	Level 120										
	Level 7	Level 8										
34 2-Methylnaphthalene	0.61920	0.55910	0.56644	0.51958	0.50422	0.47314	AVRG		0.51543			12.38475
	0.45072	0.43100										
35 1-Methylnaphthalene	0.61606	0.55407	0.55528	0.50332	0.49530	0.46142						
	0.44141	0.41906					AVRG		0.50574			13.09314
36 Hexachlorocyclopentadiene	++++	1.7209	43533	166610	161802	268363						
	391596	366756					LINR	0.15025	0.14622			0.99192
208 1,1'-Biphenyl	++++	1.26694	1.22309	1.20709	1.18079	1.14102						
	1.13168	1.12672					AVRG		1.18248			4.47490
205 2,3-Dichloroaniline	++++	0.53161	0.55084	0.52801	0.52600	0.51602						
	0.52557	0.50627					AVRG		0.52633			2.61971
37 2,4,6-Trichlorophenol	++++	0.25594	0.28274	0.26798	0.26687	0.29072						
	0.28413	0.27693					AVRG		0.27504			4.38474
38 2,4,5-Trichlorophenol	++++	0.27976	0.30172	0.32322	0.32436	0.30475						
	0.32611	0.31843					AVRG		0.31120			5.42837
40 2-Chloronaphthalene	1.03089	0.93965	0.96995	0.91126	0.89625	0.87698						
	0.88145	0.86189					AVRG		0.92104			6.15836
42 o-Nitroaniline	++++	0.24450	0.26094	0.27339	0.26328	0.26626						
	0.27311	0.26319					AVRG		0.26352			3.68401

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 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

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									
41 m-Xitroaniline	++++	0.20927	0.19528	0.2524	0.24301	0.24448	AVRG				
	0.25693	0.26033						0.23739			0.57261
43 Dimethylphthalate	++++	1.09698	1.14877	1.06391	1.04881	1.03677	AVRG				
	1.04289	1.03705						1.06788			3.88225
44 2,6-Dinitrotoluene	++++	0.25611	0.26815	0.25421	0.25664	0.24968	AVRG				
	0.25401	0.25449						0.25618			2.23861
45 Acenaphthylene	1.61802	1.52462	1.59175	1.49048	1.47152	1.44707	AVRG				
	1.42287	1.40229						1.49608			5.17941
47 Acenaphthene	1.20189	0.97935	1.02715	0.94860	0.94776	0.93746	AVRG				
	0.93130	0.90539						0.98486			9.63605
48 2,4-Dinitrophenol	++++	++++	24225	1.7874	123535	220463					
	320054	324135					LINR	0.32066	0.13309		0.99658
49 Dibenzofuran	++++	1.28584	1.34886	1.26058	1.23915	1.21010	AVRG				
	1.21124	1.17064						1.24663			4.70028
50 2,4-Dinitrotoluene	++++	0.30800	0.33593	0.33284	0.32348	0.32923	AVRG				
	0.32849	0.33062						0.32694			2.81365
51 Diethylphthalate	++++	1.15617	1.21339	1.12208	1.10678	1.08430	AVRG				
	1.06149	1.03954						1.11196			5.31128

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 Cal Date : 13-Mar-2010 12:50 jen00986

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
52 4-Nitrophenol	++++ 505576	28845 525303	65355	219223	230488	366986	LINEAR	0.13312	0.19859		0.99868
53 Fluorene	1.17614 1.02606	1.11407 1.01340	1.15144	1.06550	1.05306	1.04810	AVRG		1.08097		5.50626
54 4-Chlorophenylphenylether	++++ 0.47904	0.49206 0.47680	0.50920	0.48370	0.47473	0.47953	AVRG		0.48501		2.48996
55 2-Methyl-4,6-dinitrophenol	++++ 451449	22547 463741	52675	185816	198385	329926	LINEAR	0.14307	0.09929		0.99909
56 p-Nitroaniline	++++ 648681	44862 658983	65682	263194	276003	436953	LINEAR	0.17779	0.25312		0.99378
53 Diphenylamine	++++ 0.48095	0.53093 0.47512	0.52867	0.50441	0.49223	0.46813	AVRG		0.49678		5.04299
58 1,2-Diphenylhydrazine	++++ 0.50837	0.55703 0.49631	0.57929	0.55021	0.53843	0.51721	AVRG		0.53526		5.50624
59 Tributylphosphate	++++ 0.98192	0.91856 0.91939	1.01516	1.08508	1.08116	1.01171	AVRG		1.00185		6.77284
61 4-Bromophenylphenylether	++++ 0.15039	0.14149 0.14663	0.15021	0.14374	0.14485	0.14265	AVRG		0.14571		2.42323

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 Cal Date : 13-Mar-2010 12:50 jen00986

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
63 Hexachlorobenzene	++++ 0.15090	0.14004 0.14891	0.14506 0.13994	0.13994 0.14352	0.14232 0.14352	0.14352 0.14352	AVRG	0.14439	0.14439	2.92435	
207 Atrazine	++++ 0.04399	0.04346 0.04402	0.04621 0.04559	0.04559 0.04637	0.04637 0.04447	0.04447 0.04487	AVRG	0.04487	0.04487	2.60142	
65 Pentachlorophenol	++++ 417585	21162 418524	47444 175222	156394 295589	175222 295589	295589 295589	LINE	0.16575	0.09081	0.99871	
206 n-Octadecane	++++ ++++	0.48395 ++++	0.49965 0.42590	0.42590 0.42047	0.42047 0.36434	0.36434 0.36434	AVRG	0.43886	0.43886	12.36972	
68 Phenanthrene	1.09582 0.79735	0.95753 0.80665	0.99270 0.96482	0.87099 0.89673	0.86474 0.88853	0.86295 0.82295	AVRG	0.90639	0.90639	11.24429	
69 Anthracene	0.99610 0.80380	0.92954 0.79467	0.96482 1.16428	0.89673 1.06192	0.88853 1.06552	0.82295 0.98073	AVRG	0.88714	0.88714	8.45845	
72 Di-n-butylphthalate	++++ 0.89532	1.10548 0.90124	1.16428 0.86462	1.06192 0.83343	1.06552 0.91455	0.98073 0.81752	AVRG	1.02492	1.02492	9.99547	
76 Fluoranthene	0.89337 0.72127	0.85250 0.76857	0.86462 0.31984	0.83343 0.42643	0.91455 0.40633	0.81752 0.45615	AVRG	0.82073	0.82073	6.67901	
77 Benzidine	++++ 0.43980	0.42425 0.47622	0.31984 0.42643	0.42643 0.42643	0.40633 0.40633	0.45615 0.45615	AVRG	0.42129	0.42129	11.91851	

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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	RRSD or R^2
79 Pyrene	1.25320 1.12142	1.20003 1.04780	1.28759 1.11977	1.11977 1.11977	1.12785 1.12785	1.10822 1.10822	AVRG		1.15824		6.99544
85 Butylbenzylphthalate	++++ 0.56103	0.57719 0.55393	0.64974 0.64974	0.57708 0.57708	0.61247 0.61247	0.57740 0.57740	AVRG		0.58698		5.66709
89 Benzo(a)anthracene	1.09784 0.91131	0.90327 0.88170	0.91170 0.88170	0.88042 0.88042	0.95545 0.95545	0.88987 0.88987	AVRG		0.92895		7.78484
90 3,3'-Dichlorobenzidine	++++ 0.28530	0.21619 0.29516	0.21980 0.29516	0.27517 0.27517	0.26443 0.26443	0.27970 0.27970	AVRG		0.26225		12.07217
92 Chrysene	1.08051 0.86688	0.98281 0.90714	1.02885 0.91684	0.95346 0.79021	0.87511 0.84522	0.90382 0.79542	AVRG		0.94982		8.04035
93 bis(2-Ethylhexyl)phthalate	0.63010 0.75439	0.81442 0.73890	0.91684 0.73890	0.79021 0.63362	0.84522 1.72770	0.79542 1.67571	AVRG		0.78569		10.65558
94 Di-n-octylphthalate	++++ 1.59246	1.55877 1.56111	1.77017 1.56111	1.63362 1.04710	1.72770 0.99359	1.67571 0.99804	AVRG		1.64565		5.01145
95 Benzo(b)fluoranthene	1.15201 1.04091	0.94133 0.97279	0.97661 0.97279	1.04710 1.14675	0.99359 1.06743	0.99804 1.03989	AVRG		1.01530		6.43729
96 Benzo(k)fluoranthene	1.21184 1.06434	1.10394 1.10604	1.14675 1.10604	1.03328 1.03328	1.06743 1.06743	1.03989 1.03989	AVRG		1.09669		5.45534

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 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

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
97 Benzo(a)pyrene	0.93973 0.88383	0.81030 0.87520	0.85511	0.86499	0.87557	0.87286	AVRG	0.87220	0.87220		4.08660
99 Indeno(1,2,3-cd)pyrene	0.85767 0.69367	0.66403 0.75622	0.74483	0.74136	0.75735	0.80127	AVRG	0.75205	0.75205		7.93767
100 Dibenzo(a,h)anthracene	0.69578 0.56998	0.53281 0.61502	0.60369	0.60217	0.61653	0.66042	AVRG	0.61205	0.61205		8.19145
101 Benzo(ghi)perylene	0.77818 0.54041	0.56852 0.59341	0.61206	0.59122	0.60923	0.64951	AVRG	0.61782	0.61782		11.69624
102 1,4-Dioxane	++++ 0.28891	0.27032 0.28299	0.29580	0.28830	0.30040	0.26615	AVRG	0.28469	0.28469		4.42983
103 Methyl methacrylate	++++ 0.18897	0.18346 0.18315	0.20136	0.18427	0.18978	0.18413	AVRG	0.18787	0.18787		3.47304
104 Ethyl methacrylate	++++ 0.58811	0.57448 0.57340	0.61797	0.58103	0.60289	0.57749	AVRG	0.58791	0.58791		2.84218
105 2-Picoline	++++ 1.01756	0.99628 0.98877	1.06063	1.00894	1.03484	1.00021	AVRG	1.01532	1.01532		2.47070
106 N-Nitrosomethylethylamine	++++ 0.39700	0.36247 0.37750	0.39898	0.37992	0.39487	0.38612	AVRG	0.38527	0.38527		3.39611

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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	++++ 0.42141	0.43177 0.40320	0.45705 0.40320	0.42777 0.42777	0.43303 0.43303	0.41232 0.41232	AVRG	0.42665	4.03166		
108 N-Nitrosodiethylamine	++++ 0.45570	0.43317 0.43066	0.46421 0.43066	0.44829 0.44829	0.45407 0.45407	0.44541 0.44541	AVRG	0.44736	2.71251		
109 Ethyl Methanesulfonate	++++ 0.51223	0.51710 0.50353	0.53567 0.50353	0.50781 0.50781	0.52268 0.52268	0.51243 0.51243	AVRG	0.51592	2.06687		
110 Pentachloroethane	++++ 0.31414	0.29968 0.30059	0.31764 0.30059	0.30197 0.30197	0.30585 0.30585	0.30438 0.30438	AVRG	0.30632	2.26581		
111 N-Nitrosopyrrolidine	++++ 0.47502	0.41689 0.46053	0.48019 0.46053	0.45412 0.45412	0.47362 0.47362	0.46950 0.46950	AVRG	0.46141	4.67230		
113 N-Nitrosomorpholine	++++ 0.65037	0.68553 0.62853	0.71599 0.62853	0.67479 0.67479	0.68326 0.68326	0.64462 0.64462	AVRG	0.66901	4.44129		
114 o-Toluidine	++++ 1.55355	1.59163 1.53032	1.64667 1.53032	1.54515 1.54515	1.61756 1.61756	1.54672 1.54672	AVRG	1.57594	2.76181		
115 N-Nitrosopiperidine	++++ 0.12950	0.12309 0.12660	0.13060 0.12660	0.12320 0.12320	0.12799 0.12799	0.12678 0.12678	AVRG	0.12674	2.28963		
116 a,a-Dimethylphenethylamine	++++ 0.77849	0.61991 0.77252	0.71680 0.77252	0.72898 0.72898	0.76459 0.76459	0.76517 0.76517	AVRG	0.73521	7.59288		

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Compound	i	Level 1	10	Level 2	20	Level 3	40	Level 4	50	Level 5	80	Curve	b	Coefficients ml	m2	%RSD or R^2
117 Triethylphosphorothioate	++++	0.11009	0.11055	0.11055	0.11655	0.11757	0.11064	AVRG	0.11312	2.66532						
	0.11394	0.11249														
118 2,6-Dichlorophenol	++++	0.18169	0.19411	0.20266	0.20581	0.21161	AVRG	0.20189	5.32710							
	0.21208	0.20527														
119 Hexachloropropene	++++	0.08951	0.08208	0.08704	0.08819	0.09235	AVRG	0.08669	10.13812							
	0.09613	0.09155														
120 p-Phenylenediamine	++++	0.18229	0.21644	0.22381	0.21862	0.20433	AVRG	0.20529	7.44141							
	0.20047	0.19107														
121 N-Nitrosodi-n-butylamine	++++	0.17818	0.18670	0.16788	0.16743	0.15321	AVRG	0.16562	8.13736							
	0.15475	0.15122														
122 Saffrole	++++	0.18125	0.18870	0.18884	0.18863	0.18449	AVRG	0.18406	2.88115							
	0.18197	0.17452														
123 1,2,4,5-Tetrachlorobenzene	++++	0.38618	0.37978	0.37822	0.37694	0.37820	AVRG	0.37863	1.10648							
	0.37906	0.37202														
124 Isosafrole	++++	0.32038	0.33157	0.33025	0.33092	0.33339	AVRG	0.32993	1.41627							
	0.33459	0.32840														
125 1,4-Naphthoquinone	++++	0.29859	0.35449	0.34295	0.32231	0.28835	AVRG	0.30831	20.40523							
	0.27972	0.2775														

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	i Curve	b	Coefficients m1	m2	%RSD or R^2
126 m-Dinitrobenzene	++++ 0.18991	0.16884 0.19158	0.18595	0.18535	0.18256	0.18600	AVRG		0.18431		4.04342
127 Pentachlorobenzene	++++ 0.32257	0.30262 0.32462	0.31682	0.30847	0.31299	0.31906	AVRG		0.31531		2.48707
128 1-Naphthylamine	++++ 0.92095	0.86106 0.93006	0.86984	0.91664	0.93257	0.92194	AVRG		0.90758		3.23921
129 2-Naphthylamine	++++ 0.98000	1.01455 1.02311	1.05059	1.03138	1.02805	0.99375	AVRG		1.01735		2.34304
130 2,3,4,6-Tetrachlorophenol	++++ 0.24638	0.19467 0.24434	0.22436	0.23334	0.23405	0.22990	AVRG		0.22958		7.50251
131 5-Nitro-o-toluidine	++++ 0.30199	0.23757 0.30773	0.27339	0.29077	0.28903	0.29680	AVRG		0.28533		8.31578
132 Thionazin	++++ 0.14998	0.13434 0.14234	0.14025	0.14781	0.15453	0.14177	AVRG		0.14443		4.68753
134 Sulfonepp	++++ 0.08382	0.06512 0.07981	0.06623	0.07195	0.07302	0.07380	AVRG		0.07339		9.17659
135 Phorate	++++ 0.30953	0.30446 0.28817	0.29997	0.31238	0.31802	0.30628	AVRG		0.30554		3.14262

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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
136 1,3,5-Trinitrobenzene	++++ 451420	22035 483304	82125	191059	226834	391656	LINEAR	0.12030	0.11150		0.99836
137 Phenacetin	++++ 0.29519	0.23413 0.29924	0.27012	0.28058	0.27514	0.28021	AVRG		0.27637		7.72452
138 Diallyl	++++ 0.21560	0.21596 0.21580	0.22752	0.22512	0.22473	0.21921	AVRG		0.22056		2.31756
139 Dimethoate	++++ 0.21005	0.16218 0.20619	0.17601	0.19447	0.20259	0.19675	AVRG		0.19261		9.01853
140 4-Aminobiphenyl	++++ 0.58646	0.53455 0.58238	0.54023	0.53065	0.55506	0.58611	AVRG		0.55935		4.50170
141 Pentachloronitrobenzene	++++ 0.05741	0.06147 0.05882	0.06533	0.06194	0.06189	0.05831	AVRG		0.06074		4.51242
142 Pronamide	++++ 0.26248	0.26862 0.26610	0.28595	0.27503	0.27559	0.26200	AVRG		0.27083		3.17524
143 Dinoseb	++++ 669385	28705 665450	72094	254048	281923	487085	LINEAR	0.16945	0.14604		0.99946
144 Disulfoton	++++ 0.25374	0.24246 0.23832	0.24707	0.25813	0.26118	0.25277	AVRG		0.25052		3.31100

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	RSD or R ²
145 Methyl parathion	++++ 0.19841	0.13101 0.18884	0.15466	0.18133	0.19406	0.19172	AVRG		0.17715		14.09087
146 4-Nitroquinoline-1-oxide	++++ 69297	3838 71832	17695	35258	35070	60747	LINR	-0.00744	0.01614		0.99170
147 Methapyriene	++++ 0.34279	0.35093 0.34215	0.39454	0.38437	0.37201	0.34365	AVRG		0.36149		6.06117
148 Isodrin	++++ 0.09471	0.09280 0.09389	0.09559	0.09681	0.09528	0.09267	AVRG		0.09454		1.60257
149 Atamite	++++ 0.04757	0.03846 0.04799	0.04494	0.04838	0.04535	0.04627	AVRG		0.04557		7.45125
150 Kepone	++++ 0.06328	0.05202 0.06388	0.06033	0.06567	0.06295	0.06208	AVRG		0.06146		7.27323
151 p-(Dimethylamino)azobenzene	++++ 0.37364	0.37467 0.37707	0.39871	0.37327	0.39411	0.38231	AVRG		0.38197		2.72468
152 Chlorobenzilate	++++ 0.30862	0.27404 0.31322	0.29878	0.28824	0.31530	0.31172	AVRG		0.30142		5.10390
153 3,3'-Dimethylbenzidine	++++ 0.52322	0.50305 0.54439	0.49400	0.53036	0.51604	0.52688	AVRG		0.51971		3.27517

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
154 Pamphur	++++ 0.38989	0.34451 0.37390	0.34846 0.38858	0.38734 0.38512			AVRG	0.37397			5.22288
155 2-Acetylaminofluorene	++++ 1162547	52996 1248381	171677 503872	511276 957240			LINR	0.15829	0.42384		0.99796
157 7,12Dimethylbenz(a)anthracene	++++ 0.51810	0.45027 0.51256	0.51369 0.48265	0.49702 0.50866			AVRG	0.49756			4.84655
158 3-Methylcholanthrene	++++ 0.38910	0.28302 0.38536	0.32517 0.37064	0.36493 0.36762			AVRG	0.35512			10.69654
26 Phthalic anhydride	++++ 536020	21836 0.83849	44618 0.53689	192413 0.59082	234508 0.60008	385956 0.63297	LINR	0.18352	0.10004		0.99801
173 Carbazole	0.63057	0.63774					AVRG	0.64109			13.77887
174 Hexachlorophene	++++ 4377169	258205 0.18653	1051736 0.24907	1992205 0.24135	3839469 0.25551	3089788 0.30372	LINR	9.82290	0.07635		0.99304
179 Dibenzo(a,e)pyrene	++++ 0.24062	0.26651					AVRG	0.24904			14.07759
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	ml	n2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
100	100	120									
	Level 7	Level 8									
184 p-Benzoquinone	++++	0.05748	0.07922	0.08696	0.11587	0.15228	AVRG				
	0.13881	0.17108						0.11453			36.48548
191 Parathion	++++	14561	31071	93948	111883	166110	LINR	0.17162	0.06294		0.99427
	327432	363437									
192 Methoxychlor	++++	0.48709	0.56026	0.54973	0.56293	0.55387	AVRG				
	0.51784	0.54361						0.53933			5.09080
210 m-Toluidine	++++	1.15272	1.14604	1.37809	1.40347	1.39792	AVRG				
	1.58696	1.49597						1.36588			12.03579
211 p-Toluidine	++++	1.07166	1.04371	0.98937	0.96336	1.08719	AVRG				
	0.95759	1.01569						1.01837			5.03680
212 Cis Diallate	++++	0.22030	0.22950	0.22266	0.22098	0.21766	AVRG				
	0.22151	0.22620						0.22269			1.77723
213 Trans Diallate	++++	0.25407	0.26767	0.26485	0.26439	0.25790	AVRG				
	0.25365	0.25388						0.25949			2.31756
214 1,4-Dinitrobenzene	++++	0.15386	0.17029	0.17985	0.17737	0.18022	AVRG				
	0.18883	0.18087						0.17590			6.33667
215 2-Ethoxyethanol	++++	0.56040	0.58369	0.57332	0.58077	0.59550	AVRG				
	0.61969	0.61720						0.59008			3.74582

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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)	++++ 0.13878	0.12431 0.14327	0.10237	0.11445	0.11813	0.13393	AVRG		0.12333		12.44210
229 2,2'-Dichlorobenzil	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
230 4-Chlorothiobanisole	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
231 4-Chlorothiophenol	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG LINR	0.000e+00	0.000e+00		0.000e+00
232 bis(p-Chlorophenyl)sulfone	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
233 bis(p-Chlorophenyl)disulfide	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
234 Diphenyl disulfide	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
235 Diphenyl sulfide	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00		0.000e+00
236 Phenyl sulfone	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG 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 ml	m2	%RSD or R ²
237 Hydroxymethyl phthalimide	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	LINR	0.000e+00	0.000e+00		0.000e+00<-
238 Phthalic acid	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	LINR	0.000e+00	0.000e+00		0.000e+00<-
239 Thiophenol	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	LINR	0.000e+00	0.000e+00		0.000e+00<-
240 bis(Chloromethyl)ether	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00<-
241 Octachlorostyrene	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00<-
243 DiBenzo(a,h)pyrene	++++ 0.25062	0.21469 0.25995	0.21122 0.84045	0.22940 0.87769	0.24732 0.89038	0.22409 0.89077	AVRG		0.000e+00		8.07059<-
244 Benzo(j)fluoranthene	++++ 0.90785	0.76664 0.89917	0.84045 0.44308	0.87769 0.48364	0.89038 0.49404	0.89077 0.48407	AVRG		0.23390		5.70623<-
245 DiBenzo(a,j)acridine	++++ 0.51131	0.43773 0.52214	0.44308 0.45774	0.48364 0.50184	0.49404 0.51123	0.48407 0.48776	AVRG		0.48186		6.74548<-
246 DiBenz(a,b)acridine	++++ 0.50512	0.46611 0.51684	0.45774 0.51123	0.50184 0.51123	0.51123 0.51123	0.48776 0.49238	AVRG		0.49238		4.62911<-

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 Cal Date : 13-Mar-2010 12:50 jen00986

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
247 Quinoline	++++ 0.50152	0.48030 0.49794	0.50614	0.52861	0.53538	0.50393	AVRG		0.50769		3.68880
248 2,4-Toluene Diisocyanate	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.002e+03		0.002e+03
249 Dibenzo(a,i)pyrene	++++ 0.16519	0.13069 0.17493	0.13316	0.14920	0.16720	0.15145	AVRG		0.15320		11.1191
250 1-Nitropyrene	++++ 794620	23701 755681	65239	181011	216632	401051	LINR	0.27185	0.21513		0.99578
251 5-Methylchrysene	++++ 0.50432	0.45754 0.51182	0.48120	0.50217	0.51002	0.50748	AVRG		0.49636		4.01505
252 Dibenzo(a,i)pyrene	++++ 0.24374	0.23026 0.25055	0.21760	0.23516	0.24822	0.22930	AVRG		0.23640		4.99583
253 7H-Dibenzo(c,g)carbazole	++++ 0.35702	0.31771 0.36408	0.30333	0.34103	0.34957	0.32953	AVRG		0.33747		6.47877
254 1-Hexanol	++++ 0.56479	0.66933 0.58000	0.70678	0.70178	0.70663	0.62228	AVRG		0.65023		9.39949
IM 225 Trichlorophenols	++++ 0.30512	0.26785 0.29768	0.29223	0.29560	0.29562	0.29773	AVRG		0.29312		4.03158

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 16:24
 End Cal Date : 10-MAR-2010 07:50
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Cal Date : 13-Mar-2010 12:50 jen00986

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 226 Tetrachlorophenols	++++ 0.24638	0.19467 0.24434	0.22436	0.23334	0.23405	0.22990	AVRG		0.22958		7.50251
M 227 Benzo(b,k)fluoranthene	1.18193 1.05263	1.02264 1.03941	1.06168	1.04019	1.03051	1.01897	AVRG		1.05599		5.00588
M 228 TTO Sum Semivolatiles	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
I\$ 3 2-Fluorophenol	++++ 0.93256	0.87088 0.89685	0.92600	0.88525	0.88155	0.89935	AVRG		0.89892		2.54660
I\$ 5 Phenol-d5	++++ 1.07349	1.02753 1.04707	1.08603	1.06096	1.03227	1.06527	AVRG		1.05609		2.03515
I\$ 187 2-Chlorophenol-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
I\$ 188 1,2-Dichlorobenzene-d4	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
I\$ 20 Nitrobenzene-d5	++++ 0.20595	0.25267 0.19332	0.25596	0.24419	0.23543	0.20648	AVRG		0.22771		11.13760
I\$ 39 2-Fluorobiphenyl	++++ 0.98809	1.05547 0.96324	1.09635	1.01714	1.00964	0.99388	AVRG		1.01769		4.41031

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 16:24
End Cal Date : 10-MAR-2010 07:50
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Cal Date : 13-Mar-2010 12:50 jen00986

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									
\$ 60 2,4,6-Tribromophenol	++++ 0.10538	0.07695 0.10281	0.08351	0.08924	0.08918	0.09494	AVRG		0.09171		11.06603
\$ 81 p-Terphenyl-d14	++++ 0.63264	0.61113 0.62322	0.65065	0.60150	0.61117	0.60982	AVRG		0.62002		2.72484

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

GEL Laboratories LLC
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 09-MAR-2010 19:33
 Lab File ID: s3c0927.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
 Analysis Type: Init. Cal. Times: 16:24 07:50
 Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
 Method: /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.89892	0.85330	0.85330|0.000	-5.07534	60.00000	Averaged
5 Phenol-d5	1.05609	0.97367	0.97367|0.000	-7.80383	60.00000	Averaged
20 Nitrobenzene-d5	0.22771	0.23705	0.23705|0.000	4.09866	60.00000	Averaged
39 2-Fluorobiphenyl	1.01769	1.02717	1.02717|0.000	0.93140	60.00000	Averaged
60 2,4,6-Tribromophenol	0.09171	0.08603	0.08603|0.000	-6.19813	60.00000	Averaged
81 p-Terphenyl-d14	0.62002	0.67239	0.67239|0.000	8.44769	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.46588	0.43165	0.43165|0.000	-7.34684	60.00000	Averaged
2 Pyridine	0.70848	0.54095	0.54095|0.000	-23.64692	60.00000	Averaged
4 Aniline	0.45798	0.39905	0.39905|0.000	-12.86718	60.00000	Averaged
6 Phenol	1.08710	1.03525	1.03525|0.001	-4.76936	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.78465	0.66940	0.66940|0.000	-14.68803	60.00000	Averaged
8 2-Chlorophenol	1.07160	1.03619	1.03619|0.000	-3.30420	60.00000	Averaged
203 n-Decane	1.39262	1.26135	1.26135|0.000	-9.42634	60.00000	Averaged
9 1,3-Dichlorobenzene	1.19859	1.15377	1.15377|0.000	-3.73967	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24950	1.18664	1.18664|0.001	-5.03061	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.14996	1.10255	1.10255|0.000	-4.12356	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.97993	1.90868	1.90868|0.000	-3.59844	60.00000	Averaged
12 Benzyl alcohol	0.62769	0.60154	0.60154|0.000	-4.16480	60.00000	Averaged
15 o-Cresol	0.75438	0.70553	0.70553|0.000	-6.47552	60.00000	Averaged
18 m,p-Cresols	0.95968	0.93782	0.93782|0.000	-2.27735	60.00000	Averaged
17 N-Nitrosodipropylamine	0.60373	0.56105	0.56105|0.050	-7.07000	60.00000	Averaged|spcc
19 Hexachloroethane	0.47563	0.45806	0.45806|0.000	-3.69514	60.00000	Averaged
21 Nitrobenzene	0.22558	0.21760	0.21760|0.000	-3.53845	60.00000	Averaged
22 Isophorone	0.41268	0.38662	0.38662|0.000	-6.31523	60.00000	Averaged
23 2-Nitrophenol	0.13693	0.13924	0.13924|0.001	1.68483	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.22834	0.23185	0.23185|0.000	1.53946	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.26264	0.23942	0.23942|0.000	-8.84100	60.00000	Averaged
26 2,4-Dichlorophenol	0.19757	0.20603	0.20603|0.001	4.27983	20.00000	Averaged|ccc
27 Benzoic acid	41.61611	40.00000	0.10438|0.000	4.04028	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.22540	0.22029	0.22029|0.000	-2.26664	60.00000	Averaged
30 Naphthalene	0.79364	0.73721	0.73721|0.000	-7.10953	60.00000	Averaged
204 alpha-Terpineol	0.20813	0.18822	0.18822|0.000	-9.56416	60.00000	Averaged
31 4-Chloroaniline	0.30660	0.28481	0.28481|0.000	-7.10917	60.00000	Averaged
32 Hexachlorobutadiene	0.11504	0.11559	0.11559|0.001	0.48018	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.19999	0.19865	0.19865|0.001	-0.67170	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.51543	0.51148	0.51148|0.000	-0.76666	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 09-MAR-2010 19:33
Lab File ID: s3c0927.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
Method: /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.50574	0.48147	0.48147	0.000	-4.79920	60.00000	Averaged
36 Hexachlorocyclopentadiene	31.13394	40.00000	0.09184	0.050	-22.16515	60.00000	Linear|spcc
205 2,3-Dichloroaniline	0.52633	0.49359	0.49359	0.000	-6.22043	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.27504	0.27072	0.27072	0.001	-1.57072	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.31120	0.32056	0.32056	0.000	3.00799	60.00000	Averaged
40 2-Chloronaphthalene	0.92104	0.87020	0.87020	0.000	-5.52032	60.00000	Averaged
42 o-Nitroaniline	0.26352	0.24317	0.24317	0.000	-7.72268	60.00000	Averaged
41 m-Nitroaniline	0.23739	0.23302	0.23302	0.000	-1.83785	60.00000	Averaged
43 Dimethylphthalate	1.06788	1.00411	1.00411	0.000	-5.97172	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25618	0.24287	0.24287	0.000	-5.19649	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32694	0.31326	0.31326	0.000	-4.18525	60.00000	Averaged
45 Acenaphthylene	1.49608	1.46110	1.46110	0.000	-2.33793	60.00000	Averaged
47 Acenaphthene	0.98486	0.88812	0.88812	0.001	-9.82283	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	38.28035	40.00000	0.08469	0.050	-4.29914	60.00000	Linear|spcc
49 Dibenzofuran	1.24663	1.23502	1.23502	0.000	-0.93144	60.00000	Averaged
51 Diethylphthalate	1.11196	1.07824	1.07824	0.000	-3.03315	60.00000	Averaged
52 4-Nitrophenol	39.63854	40.00000	0.17035	0.050	-0.90366	60.00000	Linear|spcc
53 Fluorene	1.08097	1.00987	1.00987	0.000	-6.57727	60.00000	Averaged
54 4-Chlorophenylphenylether	0.48501	0.44793	0.44793	0.000	-7.64497	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	46.68867	40.00000	0.10169	0.000	16.72167	60.00000	Linear
56 p-Nitroaniline	41.02133	40.00000	0.21458	0.000	2.55333	60.00000	Linear
133 Diphenylamine	0.49678	0.48129	0.48129	0.001	-3.11742	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.53526	0.51337	0.51337	0.000	-4.08975	60.00000	Averaged
61 4-Bromophenylphenylether	0.14571	0.13415	0.13415	0.000	-7.93220	60.00000	Averaged
63 Hexachlorobenzene	0.14439	0.13450	0.13450	0.000	-6.84368	60.00000	Averaged
65 Pentachlorophenol	38.43924	40.00000	0.07221	0.001	-3.90190	20.00000	Linear|ccc
206 n-Octadecane	0.43886	0.42432	0.42432	0.000	-3.31318	60.00000	Averaged
68 Phenanthrene	0.90609	0.83046	0.83046	0.000	-8.34742	60.00000	Averaged
69 Anthracene	0.88714	0.81780	0.81780	0.000	-7.81671	60.00000	Averaged
72 Di-n-butylphthalate	1.02492	1.02145	1.02145	0.000	-0.33872	60.00000	Averaged
76 Fluoranthene	0.82073	0.78822	0.78822	0.001	-3.96099	20.00000	Averaged|ccc
79 Pyrene	1.15824	1.06952	1.06952	0.000	-7.65989	60.00000	Averaged
85 Butylbenzylphthalate	0.58698	0.59601	0.59601	0.000	1.53827	60.00000	Averaged
89 Benzo(a)anthracene	0.92895	0.86255	0.86255	0.000	-7.14699	60.00000	Averaged
92 Chrysene	0.94982	0.90546	0.90546	0.000	-4.67057	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.78569	0.80662	0.80662	0.000	2.66413	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 09-MAR-2010 19:33
Lab File ID: s3c0927.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100225-09.1 Quant Type: ISTD
Method: /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.64565	1.60662	1.60662	0.001	-2.37179	20.00000	Averaged|ccc
95 Benzo(b)fluoranthene	1.01530	0.87703	0.87703	0.000	-13.61843	60.00000	Averaged|
96 Benzo(k)fluoranthene	1.09669	1.04126	1.04126	0.000	-5.05458	60.00000	Averaged|
97 Benzo(a)pyrene	0.87220	0.80075	0.80075	0.001	-8.19228	20.00000	Averaged|ccc
99 Indeno(1,2,3-cd)pyrene	0.75205	0.67370	0.67370	0.000	-10.41839	60.00000	Averaged|
100 Dibenzo(a,h)anthracene	0.61205	0.53662	0.53662	0.000	-12.32436	60.00000	Averaged|
101 Benzo(ghi)perylene	0.61782	0.53801	0.53801	0.000	-12.91791	60.00000	Averaged|
126 m-Dinitrobenzene	0.18431	0.18088	0.18088	0.000	-1.86227	60.00000	Averaged|
130 2,3,4,6-Tetrachlorophenol	0.22958	0.20734	0.20734	0.000	-9.68689	60.00000	Averaged|
143 Dinoseb	36.69242	40.00000	0.10922	0.000	-8.26896	60.00000	Linear|
173 Carbazole	0.64109	0.62982	0.62982	0.000	-1.75675	60.00000	Averaged|
184 p-Benzoquinone	0.11453	0.06546	0.06546	0.000	-42.84460	60.00000	Averaged|
192 Methoxychlor	0.53933	0.53524	0.53524	0.000	-0.75862	60.00000	Averaged|
211 p-Toluidine	1.01837	0.82424	0.82424	0.000	-19.06241	60.00000	Averaged|
210 m-Toluidine	1.36588	1.21674	1.21674	0.000	-10.91880	60.00000	Averaged|
26 Phthalic anhydride	54.70960	40.00000	0.11847	0.000	36.77399	60.00000	Linear|
179 Dibenzo(a,e)pyrene	0.24904	0.17726	0.17726	0.000	-28.82574	60.00000	Averaged|
214 1,4-Dinitrobenzene	0.17590	0.16941	0.16941	0.000	-3.69064	60.00000	Averaged|
215 2-Ethoxyethanol	0.59008	0.59231	0.59231	0.000	0.37792	60.00000	Averaged|
216 Methylenebis(2-chloroanilin	0.12333	0.12839	0.12839	0.000	4.09757	60.00000	Averaged|
M 225 Trichlorophenols	0.29312	0.29564	0.29564	0.000	0.85980	60.00000	Averaged|
M 226 Tetrachlorophenols	0.22958	0.20734	0.20734	0.000	-9.68689	60.00000	Averaged|
M 227 Benzo(b,k)fluoranthene	1.05599	0.95914	0.95914	0.000	-9.17149	60.00000	Averaged|

GEL Laboratories LLC

Data file : /chem/MSD3.i/s030910a.b/s3c0927.d
Lab Smp Id: WBN100225-09.1 Client Smp ID: MEGAICV
Inj Date : 09-MAR-2010 19:33
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |WBN100225-09.1|40PPM|1|SVMF|1|MEGAICV
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m
Meth Date : 10-Mar-2010 12:22 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGAII.sub
Target Version: 3.50
Processing Host: hpclp1

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	3.570	3.570 (1.000)	496463	40.0000	
* 29 Naphthalene-d8	136	4.425	4.425 (1.000)	2037960	40.0000	
* 46 Acenaphthene-d10	164	5.666	5.666 (1.000)	1040699	40.0000	
* 67 Phenanthrene-d10	188	6.683	6.683 (1.000)	1818609	40.0000	
* 91 Chrysene-d12	240	8.271	8.271 (1.000)	1380811	40.0000	
* 98 Perylene-d12	264	9.496	9.496 (1.000)	1063042	40.0000	
\$ 3 2-Fluorophenol	112	2.767	2.767 (0.775)	423631	40.0000	38.0
\$ 5 Phenol-d5	99	3.297	3.297 (0.924)	483392	40.0000	36.9
\$ 20 Nitrobenzene-d5	82	3.933	3.933 (0.889)	483090	40.0000	41.6
\$ 39 2-Fluorobiphenyl	172	5.169	5.169 (0.912)	1068971	40.0000	40.4
\$ 60 2,4,6-Tribromophenol	329	6.223	6.223 (1.098)	89531	40.0000	37.5
\$ 81 p-Terphenyl-d14	244	7.613	7.613 (0.920)	928450	40.0000	43.4
1 N-Methyl-N-nitrosomethylamine	74	2.093	2.093 (0.586)	214298	40.0000	37.1
2 Pyridine	79	2.120	2.120 (0.594)	268560	40.0000	30.5
4 Aniline	66	3.361	3.361 (0.942)	198115	40.0000	34.8
6 Phenol	94	3.302	3.302 (0.925)	513963	40.0000	38.1 (Q)
7 bis(2-Chloroethyl) ether	63	3.382	3.382 (0.948)	332332	40.0000	34.1
8 2-Chlorophenol	128	3.436	3.436 (0.963)	514429	40.0000	38.7
203 n-Decane	43	3.425	3.425 (0.960)	626214	40.0000	36.2
9 1,3-Dichlorobenzene	146	3.538	3.538 (0.991)	572803	40.0000	38.5
11 1,4-Dichlorobenzene	146	3.580	3.580 (1.003)	589124	40.0000	38.0
13 1,2-Dichlorobenzene	146	3.682	3.682 (1.031)	547373	40.0000	38.4
14 bis(2-Chloroisopropyl) ether	45	3.719	3.719 (1.042)	947591	40.0000	38.6
12 Benzyl alcohol	108	3.639	3.639 (1.019)	298644	40.0000	38.3
15 o-Cresol	107	3.693	3.693 (1.034)	350269	40.0000	37.4
18 m,p-Cresols	107	3.794	3.794 (1.063)	465594	40.0000	39.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	3.810	3.810	(1.067)	278539	40.0000	37.2
19 Hexachloroethane	117	3.907	3.907	(1.094)	227408	40.0000	38.5
21 Nitrobenzene	77	3.944	3.944	(0.891)	443451	40.0000	38.6
22 Isophorone	82	4.094	4.094	(0.925)	787912	40.0000	37.5
23 2-Nitrophenol	139	4.153	4.153	(0.938)	283763	40.0000	40.7
24 2,4-Dimethylphenol	122	4.153	4.153	(0.938)	472509	40.0000	40.6
25 bis(2-Chloroethoxy)methane	93	4.222	4.222	(0.954)	487932	40.0000	36.5
26 2,4-Dichlorophenol	162	4.313	4.313	(0.975)	419882	40.0000	41.7
27 Benzoic acid	105	4.211	4.211	(0.952)	212730	40.0000	41.6
28 1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	448935	40.0000	39.1
30 Naphthalene	128	4.441	4.441	(1.004)	1502409	40.0000	37.2
204 alpha-Terpinol	59	4.420	4.420	(0.999)	383586	40.0000	36.2
31 4-Chloroaniline	127	4.463	4.463	(1.008)	580424	40.0000	37.2
32 Hexachlorobutadiene	225	4.506	4.506	(1.018)	235571	40.0000	40.2
33 4-Chloro-3-methylphenol	107	4.778	4.778	(1.080)	404839	40.0000	39.7
34 2-Methylnaphthalene	142	4.917	4.917	(1.111)	1042366	40.0000	39.7
35 1-Methylnaphthalene	142	4.992	4.992	(1.128)	981213	40.0000	38.1
36 Hexachlorocyclopentadiene	237	5.019	5.019	(0.886)	95580	40.0000	31.1
205 2,3-Dichloroaniline	161	5.115	5.115	(0.903)	513680	40.0000	37.5
37 2,4,6-Trichlorophenol	196	5.110	5.110	(0.902)	281743	40.0000	39.4
38 2,4,5-Trichlorophenol	196	5.137	5.137	(0.907)	333602	40.0000	41.2
40 2-Chloronaphthalene	162	5.270	5.270	(0.930)	905612	40.0000	37.8
42 o-Nitroaniline	65	5.329	5.329	(0.941)	253070	40.0000	36.9
41 m-Nitroaniline	138	5.623	5.623	(0.992)	242508	40.0000	39.3
43 Dimethylphthalate	163	5.447	5.447	(0.961)	1044978	40.0000	37.6
44 2,6-Dinitrotoluene	165	5.500	5.500	(0.971)	252757	40.0000	37.9
50 2,4-Dinitrotoluene	165	5.789	5.789	(1.022)	326010	40.0000	38.3
45 Acenaphthylene	152	5.570	5.570	(0.983)	1520566	40.0000	39.1
47 Acenaphthene	154	5.693	5.693	(1.005)	924268	40.0000	36.1
48 2,4-Dinitrophenol	184	5.698	5.698	(1.006)	88142	40.0000	38.3
49 Dibenzofuran	168	5.811	5.811	(1.025)	1285280	40.0000	39.6
51 Diethylphthalate	149	5.944	5.944	(1.049)	1122120	40.0000	38.8
52 4-Nitrophenol	139	5.720	5.720	(1.009)	177288	40.0000	39.6
53 Fluorene	166	6.057	6.057	(1.069)	1050973	40.0000	37.4
54 4-Chlorophenylphenylether	204	6.041	6.041	(1.066)	466161	40.0000	36.9
55 2-Methyl-4,6-dinitrophenol	198	6.078	6.078	(0.910)	184935	40.0000	46.7
56 p-Nitroaniline	138	6.062	6.062	(1.070)	223309	40.0000	41.0
133 Diphenylamine	169	6.121	6.121	(0.916)	875280	40.0000	38.8
58 1,2-Diphenylhydrazine	77	6.153	6.153	(0.921)	933625	40.0000	38.4
61 4-Bromophenylphenylether	248	6.378	6.378	(0.954)	243966	40.0000	36.8
63 Hexachlorobenzene	284	6.426	6.426	(0.962)	244610	40.0000	37.3
65 Pentachlorophenol	266	6.549	6.549	(0.980)	131325	40.0000	38.4
206 n-Octadecane	57	6.554	6.554	(0.981)	771673	40.0000	38.7
68 Phenanthrene	178	6.699	6.699	(1.002)	1510275	40.0000	36.7
69 Anthracene	178	6.731	6.731	(1.007)	1487253	40.0000	36.9
72 Di-n-butylphthalate	149	6.993	6.993	(1.046)	1857618	40.0000	39.9
76 Fluoranthene	202	7.415	7.415	(1.110)	1433465	40.0000	38.4

Compounds	QUANT STG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	7.554	7.554	(0.913)	1476800	40.0000	36.9
85 Butylbenzylphthalate	149	7.865	7.865	(0.951)	822973	40.0000	40.6
89 Benzo(a)anthracene	228	8.266	8.266	(0.999)	1191024	40.0000	37.1
92 Chrysene	228	8.292	8.292	(1.003)	1250270	40.0000	38.1
93 bis(2-Ethylhexyl)phthalate	149	8.185	8.185	(0.990)	1113787	40.0000	41.1
94 Di-n-octylphthalate	149	8.645	8.645	(0.910)	1707901	40.0000	39.0
95 Benzo(b)fluoranthene	252	9.111	9.111	(0.959)	932321	40.0000	34.6
96 Benzo(k)fluoranthene	252	9.138	9.138	(0.962)	1106899	40.0000	38.0
97 Benzo(a)pyrene	252	9.442	9.442	(0.994)	851226	40.0000	36.7
99 Indeno(1,2,3-cd)pyrene	276	10.838	10.838	(1.141)	716170	40.0000	35.8
100 Dibenzo(a,h)anthracene	278	10.849	10.849	(1.143)	570448	40.0000	35.1(Q)
101 Benzo(ghi)perylene	276	11.256	11.256	(1.185)	571924	40.0000	34.8(Q)
126 m-Dinitrobenzene	168	5.484	5.484	(0.968)	188241	40.0000	39.2
130 2,3,4,6-Tetrachlorophenol	232	5.891	5.891	(1.040)	215777	40.0000	36.1
143 Dinoseb	211	6.650	6.650	(0.995)	198620	40.0000	36.7
173 Carbazole	167	6.822	6.822	(1.021)	1145404	40.0000	39.3
184 p-Benzoquinone	54	3.072	3.072	(0.861)	32498	40.0000	22.9
192 Methoxychlor	227	8.164	8.164	(0.987)	739069	40.0000	39.7
211 p-Toluidine	106	3.848	3.848	(1.078)	409206	40.0000	32.4
210 m-Toluidine	106	3.869	3.869	(1.084)	604068	40.0000	35.6
26 Phthalic anhydride	104	4.960	4.960	(1.121)	241445	40.0000	54.7
179 Dibenzo(a,e)pyrene	302	14.454	14.454	(1.522)	188430	40.0000	28.5
214 1,4-Dinitrobenzene	75	5.431	5.431	(0.958)	176301	40.0000	38.5
215 2-Ethoxyethanol	59	1.938	1.938	(0.543)	294060	40.0000	40.2
216 Methylenebis(2-chloroaniline)	231	8.218	8.218	(0.994)	177279	40.0000	41.6(Q)
M 225 Trichlorophenols	196				615345	80.0000	80.7
M 226 Tetrachlorophenols	232				215777	40.0000	36.1
M 227 Benzo(b,k)fluoranthene	252				2039220	80.0000	72.7

QC Flag Legend

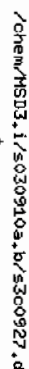
Q - Qualifier signal failed the ratio test.

Page 1

Client ID: MEGAICV

Instrument: MSD3.1

Operator: JLD1
Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 10-MAR-2010 03:36
Lab File ID: s3c0950.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.68137	0.54704	0.54704|0.000	-19.71522	60.00000	Averaged	
16 Acetophenone	1.09508	1.05273	1.05273|0.000	-3.86660	60.00000	Averaged	
189 Caprolactam	0.08146	0.08461	0.08461|0.000	3.86984	60.00000	Averaged	
208 1,1'-Biphenyl	1.18248	1.20572	1.20572|0.000	1.96564	60.00000	Averaged	
207 Atrazine	0.04487	0.04846	0.04846|0.000	7.98706	60.00000	Averaged	
77 Benzidine	0.42129	0.40691	0.40691|0.000	-3.41292	60.00000	Averaged	
90 3,3'-Dichlorobenzidine	0.26225	0.27868	0.27868|0.000	6.26650	60.00000	Averaged	
102 1,4-Dioxane	0.28469	0.33689	0.33689|0.000	18.33335	60.00000	Averaged	
103 Methyl methacrylate	0.18787	0.21124	0.21124|0.000	12.43764	60.00000	Averaged	
104 Ethyl methacrylate	0.58791	0.65118	0.65118|0.000	10.76347	60.00000	Averaged	
105 2-Picoline	1.01532	0.98578	0.98578|0.000	-2.90942	60.00000	Averaged	
106 N-Nitrosomethylethylamine	0.38527	0.39294	0.39294|0.000	1.99249	60.00000	Averaged	
107 Methyl methanesulfonate	0.42665	0.44498	0.44498|0.000	4.29575	60.00000	Averaged	
108 N-Nitrosodiethylamine	0.44736	0.45318	0.45318|0.000	1.30189	60.00000	Averaged	
109 Ethyl Methanesulfonate	0.51592	0.61074	0.61074|0.000	18.37772	60.00000	Averaged	
110 Pentachloroethane	0.30632	0.41921	0.41921|0.000	36.85276	60.00000	Averaged	
111 N-Nitrosopyrrolidine	0.46141	0.44792	0.44792|0.000	-2.92305	60.00000	Averaged	
113 N-Nitrosomorpholine	0.66901	0.69190	0.69190|0.000	3.42093	60.00000	Averaged	
114 o-Toluidine	1.57594	1.61435	1.61435|0.000	2.43725	60.00000	Averaged	
115 N-Nitrosopiperidine	0.12674	0.13121	0.13121|0.000	3.53356	60.00000	Averaged	
116 a,a-Dimethylphenethylamine	0.73521	0.76611	0.76611|0.000	4.20244	60.00000	Averaged	
118 2,6-Dichlorophenol	0.20189	0.20969	0.20969|0.000	3.86423	60.00000	Averaged	
119 Hexachloropropene	0.08669	0.14058	0.14058|0.000	62.16108	60.00000	Averaged<-	
120 p-Phenylenediamine	0.20529	0.21237	0.21237|0.000	3.44788	60.00000	Averaged	
121 N-Nitrosodi-n-butylamine	0.16562	0.17483	0.17483|0.000	5.55723	60.00000	Averaged	
122 Safrole	0.18406	0.21446	0.21446|0.000	16.51746	60.00000	Averaged	
123 1,2,4,5-Tetrachlorobenzene	0.37863	0.39122	0.39122|0.000	3.32472	60.00000	Averaged	
124 Isosafrole	0.32993	0.43289	0.43289|0.000	31.20784	60.00000	Averaged	
125 1,4-Naphthoquinone	0.30831	0.31890	0.31890|0.000	3.43525	60.00000	Averaged	
127 Pentachlorobenzene	0.31531	0.30994	0.30994|0.000	-1.70285	60.00000	Averaged	
128 1-Naphthylamine	0.90758	0.97981	0.97981|0.000	7.95857	60.00000	Averaged	
129 2-Naphthylamine	1.01735	1.07893	1.07893|0.000	6.05348	60.00000	Averaged	
131 5-Nitro-o-toluidine	0.28533	0.29032	0.29032|0.000	1.75089	60.00000	Averaged	
136 1,3,5-Trinitrobenzene	52.62575	40.00000	0.13328|0.000	31.56438	60.00000	Linear	
137 Phenacetin	0.27637	0.28492	0.28492|0.000	3.09441	60.00000	Averaged	
138 Diallate	0.22056	0.21246	0.21246|0.000	-3.67281	60.00000	Averaged	

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 10-MAR-2010 03:36
Lab File ID: s3c0950.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
140 4-Aminobiphenyl	0.55935	0.57096	0.57096	0.000	2.07596	60.00000	Averaged
141 Pentachloronitrobenzene	0.06074	0.06539	0.06539	0.000	7.65324	60.00000	Averaged
142 Pronamide	0.27083	0.29106	0.29106	0.000	7.47295	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	40.39307	40.00000	0.01642	0.000	0.98267	60.00000	Linear
147 Methapyrilene	0.36149	0.44497	0.44497	0.000	23.09363	60.00000	Averaged
148 Isodrin	0.09454	0.08982	0.08982	0.000	-4.98725	60.00000	Averaged
149 Aramite	0.04557	0.04732	0.04732	0.000	3.85981	60.00000	Averaged
150 Kepone	0.06146	0.06494	0.06494	0.000	5.65704	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.38197	0.39623	0.39623	0.000	3.73442	60.00000	Averaged
152 Chlorobenzilate	0.30142	0.30178	0.30178	0.000	0.11904	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.51971	0.52283	0.52283	0.000	0.60097	60.00000	Averaged
155 2-Acetylaminofluorene	41.50870	40.00000	0.37274	0.000	3.77176	60.00000	Linear
157 7,12Dimethylbenz(a)anthracene	0.49756	0.45708	0.45708	0.000	-8.13613	60.00000	Averaged
158 3-Methylchoianthrene	0.35512	0.39644	0.39644	0.000	11.63573	60.00000	Averaged
212 Cis Diallate	0.22269	0.28270	0.28270	0.000	26.95190	60.00000	Averaged
213 Trans Diallate	0.25949	0.24996	0.24996	0.000	-3.67281	60.00000	Averaged

GEL Laboratories LLC

Data file : /chem/MSD3.i/s030910a.b/s3c0950.d
 Lab Smp Id: WBN100218-08.1 Client Smp ID: APICV
 Inj Date : 10-MAR-2010 03:36
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |WBN100218-08.1|40PPM|1|SVMF|1|APICV
 Misc Info : |MSD8270|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s030910a.b/MSD3-8270R-AQA-030910.m
 Meth Date : 10-Mar-2010 12:19 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 23 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50
 Processing Host: hpclp1

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	3.566	3.566	(1.000)	538525	40.0000	
* 29 Naphthalene-d8	136	4.422	4.422	(1.000)	2021125	40.0000	
* 46 Acenaphthene-d10	164	5.668	5.668	(1.000)	1109965	40.0000	
* 67 Phenanthrene-d10	188	6.685	6.685	(1.000)	1865890	40.0000	
* 91 Chrysene-d12	240	8.268	8.268	(1.000)	1298986	40.0000	
* 98 Perylene-d12	264	9.493	9.493	(1.000)	925149	40.0000	
209 Benzaldehyde	77	3.299	3.299	(0.925)	294593	40.0000	32.1
16 Acetophenone	105	3.823	3.823	(1.072)	566923	40.0000	38.4
189 Caprolactam	113	4.706	4.706	(1.064)	171015	40.0000	41.5
208 1,1'-Biphenyl	154	5.246	5.246	(0.925)	1338306	40.0000	40.8
207 Atrazine	173	6.460	6.460	(0.966)	90413	40.0000	43.2
77 Benzidine	184	7.476	7.476	(0.904)	528572	40.0000	38.6
90 3,3'-Dichlorobenzidine	252	8.220	8.220	(0.994)	362005	40.0000	42.5
102 1,4-Dioxane	88	1.935	1.935	(0.543)	181423	40.0000	47.3
103 Methyl methacrylate	100	1.930	1.930	(0.541)	113759	40.0000	45.0
104 Ethyl methacrylate	69	2.299	2.299	(0.645)	350679	40.0000	44.3
105 2-Picoline	93	2.486	2.486	(0.697)	530867	40.0000	38.8
106 N-Nitrosomethylethylamine	88	2.534	2.534	(0.711)	211609	40.0000	40.8
107 Methyl methanesulfonate	80	2.689	2.689	(0.754)	239632	40.0000	41.7
108 N-Nitrosodiethylamine	102	2.914	2.914	(0.817)	244050	40.0000	40.5
109 Ethyl Methanesulfonate	79	3.074	3.074	(0.862)	328897	40.0000	47.4
110 Pentachloroethane	167	3.395	3.395	(0.952)	225754	40.0000	54.7
111 N-Nitrosopyrrolidine	100	3.812	3.812	(1.069)	241218	40.0000	38.8(Q)
113 N-Nitrosomorpholine	56	3.834	3.834	(1.075)	372605	40.0000	41.4
114 o-Toluidine	106	3.844	3.844	(1.078)	869369	40.0000	41.0
115 N-Nitrosopiperidine	114	4.042	4.042	(0.914)	265201	40.0000	41.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
116 a,a-Dimethylphenethylamine	58	4.299	4.299	(0.972)	1548394	40.0000	41.7
118 2,6-Dichlorophenol	162	4.470	4.470	(1.011)	423809	40.0000	41.5
119 Hexachloropropene	213	4.492	4.492	(1.016)	284138	40.0000	64.9
120 p-Phenylenediamine	108	4.711	4.711	(1.065)	429223	40.0000	41.4
121 N-Nitrosodi-n-butylamine	84	4.679	4.679	(1.058)	353350	40.0000	42.2 (Q)
122 Safrole	162	4.839	4.839	(1.094)	433449	40.0000	46.6
123 1,2,4,5-Tetrachlorobenzene	216	5.032	5.032	(0.888)	434238	40.0000	41.3
124 Isosafrole	162	5.208	5.208	(0.919)	480498	40.0000	52.5
125 1,4-Naphthoquinone	158	5.390	5.390	(0.951)	353967	40.0000	41.4
127 Pentachlorobenzene	250	5.781	5.781	(1.020)	344021	40.0000	39.3
128 1-Naphthylamine	143	5.866	5.866	(1.035)	1087555	40.0000	43.2
129 2-Naphthylamine	143	5.925	5.925	(1.045)	1197578	40.0000	42.4
131 5-Nitro-o-toluidine	152	6.053	6.053	(1.068)	322246	40.0000	40.7
136 1,3,5-Trinitrobenzene	75	6.289	6.289	(0.941)	248680	40.0000	52.6
137 Phenacetin	108	6.315	6.315	(0.945)	531637	40.0000	41.2 (Q)
138 Diallate	86	6.299	6.299	(0.942)	396433	40.0000	38.5
140 4-Aminobiphenyl	169	6.545	6.545	(0.979)	1065351	40.0000	40.8
141 Pentachloronitrobenzene	237	6.556	6.556	(0.981)	122003	40.0000	43.1 (Q)
142 Pronamide	173	6.561	6.561	(0.982)	543095	40.0000	43.0
146 4-Nitroquinoline-1-oxide	101	7.166	7.166	(1.072)	30637	40.0000	40.4
147 Methapyrilene	58	7.182	7.182	(1.074)	830269	40.0000	49.2
148 Isodrin	193	7.326	7.326	(1.096)	167596	40.0000	38.0
149 Aramite	185	7.572	7.572	(1.133)	88303	40.0000	41.5
150 Kepone	272	7.941	7.941	(1.188)	121164	40.0000	42.3
151 p-(Dimethylamino)azobenzene	120	7.685	7.685	(0.929)	514701	40.0000	41.5
152 Chlorobenzilate	251	7.706	7.706	(0.932)	392004	40.0000	40.0
153 3,3'-Dimethylbenzidine	212	7.877	7.877	(0.953)	679147	40.0000	40.2
155 2-Acetylaminofluorene	181	8.038	8.038	(0.972)	484185	40.0000	41.5
157 7,12Dimethylbenz(a)anthracene	256	9.086	9.086	(0.957)	422867	40.0000	36.7
158 3-Methylcholanthrene	268	9.792	9.792	(1.032)	366766	40.0000	44.6 (Q)
212 Cis Diallate	86	6.364	6.364	(0.952)	79124	6.00000	7.6
213 Trans Diallate	86	6.299	6.299	(0.942)	396433	34.0000	32.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD3.i/s030910a.b/s3c0950.d

Date: 10-MAR-2010 03:36

Client ID: APICV

Sample Info: ILMN100218-08.1.40PPI11SVNF11APICV

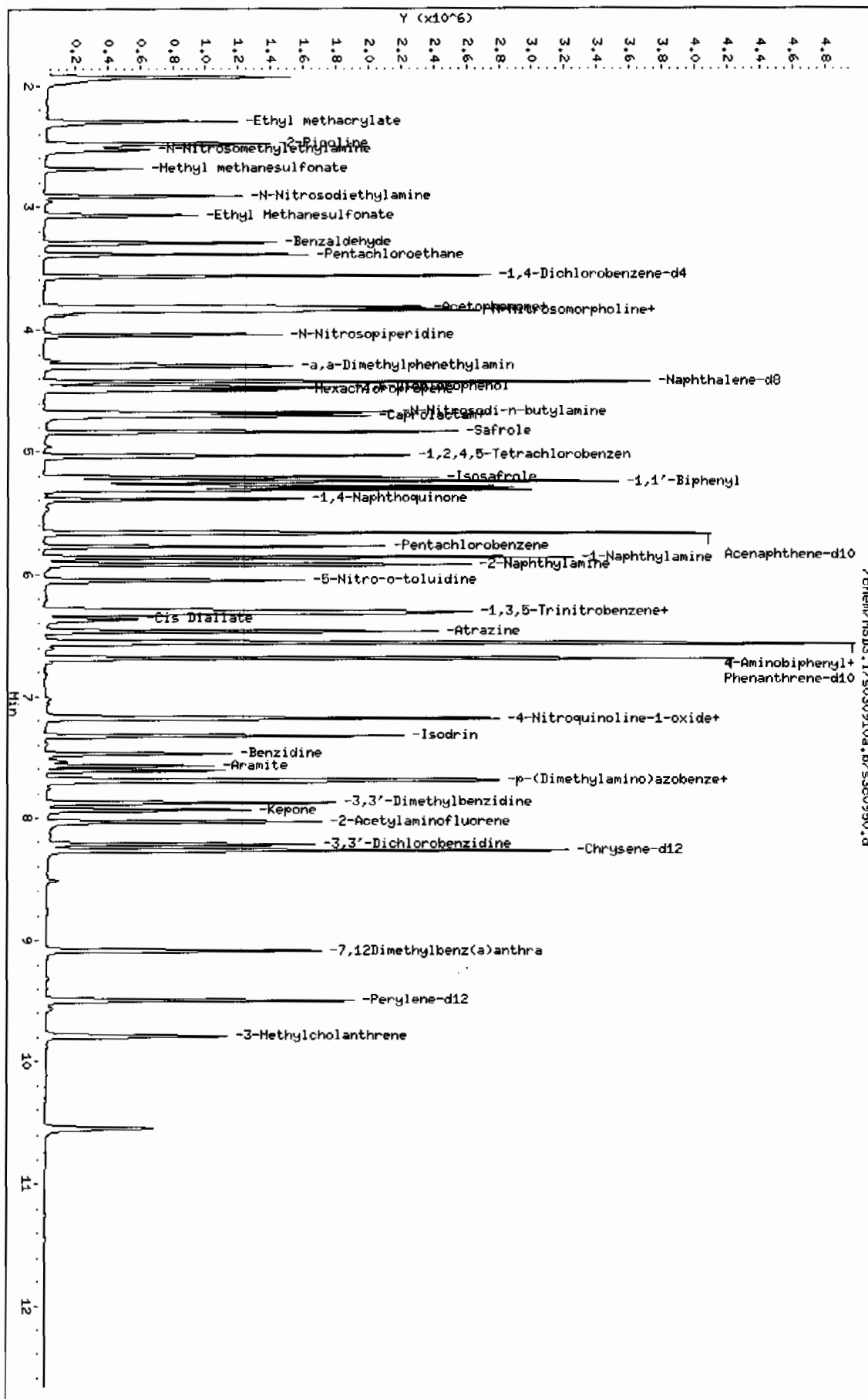
Column phase: J&W DB-5MS

Instrument: HSD3.i

Operator: JLD1

Column diameter: 0.20

/chem/HSD3.i/s030910a.b/s3c0950.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 13-MAR-2010 11:13
Lab File ID: s3c1303.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100309-09.2 Quant Type: ISTD
Method: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.89892	0.90923	0.90923	0.000	1.14665	60.00000	Averaged
5 Phenol-d5	1.05609	1.04497	1.04497	0.000	-1.05298	60.00000	Averaged
20 Nitrobenzene-d5	0.22771	0.24107	0.24107	0.000	5.86506	60.00000	Averaged
39 2-Fluorobiphenyl	1.01769	1.07888	1.07888	0.000	6.01281	60.00000	Averaged
60 2,4,6-Tribromophenol	0.09171	0.09283	0.09283	0.000	1.21463	60.00000	Averaged
81 p-Terphenyl-d14	0.62002	0.70915	0.70915	0.000	14.37615	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.46588	0.45232	0.45232	0.000	-2.90896	60.00000	Averaged
2 Pyridine	0.70848	0.54243	0.54243	0.000	-23.43769	60.00000	Averaged
4 Aniline	0.45798	0.41214	0.41214	0.000	-10.00905	60.00000	Averaged
6 Phenol	1.08710	1.10093	1.10093	0.001	1.27255	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.78465	0.73228	0.73228	0.000	-6.67432	60.00000	Averaged
8 2-Chlorophenol	1.07160	1.11404	1.11404	0.000	3.96040	60.00000	Averaged
203 n-Decane	1.39262	1.37913	1.37913	0.000	-0.96911	60.00000	Averaged
9 1,3-Dichlorobenzene	1.19859	1.21296	1.21296	0.000	1.19854	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24950	1.24859	1.24859	0.001	-0.07304	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.14996	1.15489	1.15489	0.000	0.42792	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.97993	2.06594	2.06594	0.000	4.34397	60.00000	Averaged
12 Benzyl alcohol	0.62769	0.65510	0.65510	0.000	4.36725	60.00000	Averaged
15 o-Cresol	0.75438	0.75623	0.75623	0.000	0.24518	60.00000	Averaged
18 m,p-Cresols	0.95968	0.99559	0.99559	0.000	3.74256	60.00000	Averaged
17 N-Nitrosodipropylamine	0.60373	0.62547	0.62547	0.050	3.60057	60.00000	Averaged|spcc
19 Hexachloroethane	0.47563	0.48387	0.48387	0.000	1.73314	60.00000	Averaged
21 Nitrobenzene	0.22558	0.23779	0.23779	0.000	5.41520	60.00000	Averaged
22 Isophorone	0.41268	0.41215	0.41215	0.000	-0.12923	60.00000	Averaged
23 2-Nitrophenol	0.13693	0.14258	0.14258	0.001	4.12309	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.22834	0.24007	0.24007	0.000	5.13558	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.26264	0.25460	0.25460	0.000	-3.06212	60.00000	Averaged
26 2,4-Dichlorophenol	0.19757	0.20685	0.20685	0.001	4.69589	20.00000	Averaged|ccc
27 Benzoic acid	31.77480	40.00000	0.06406	0.000	-20.56301	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.22540	0.22340	0.22340	0.000	-0.88645	60.00000	Averaged
30 Naphthalene	0.79364	0.75904	0.75904	0.000	-4.35896	60.00000	Averaged
204 alpha-Terpineol	0.20813	0.20755	0.20755	0.000	-0.27819	60.00000	Averaged
31 4-Chloroaniline	0.30660	0.26810	0.26810	0.000	-12.55902	60.00000	Averaged
32 Hexachlorobutadiene	0.11504	0.11977	0.11977	0.001	4.11132	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.19999	0.21421	0.21421	0.001	7.10775	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.51543	0.52348	0.52348	0.000	1.56304	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 13-MAR-2010 11:13
Lab File ID: s3c1303.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100309-09.2 Quant Type: ISTD
Method: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.50574	0.49346	0.49346	0.000	-2.42843	60.00000	Averaged
36 Hexachlorocyclopentadiene	34.52259	40.00000	0.10423	0.050	-13.69352	60.00000	Linear|spcc
205 2,3-Dichloroaniline	0.52633	0.51116	0.51116	0.000	-2.88272	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.27504	0.28421	0.28421	0.001	3.33373	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.31120	0.32997	0.32997	0.000	6.03451	60.00000	Averaged
40 2-Chloronaphthalene	0.92104	0.92651	0.92651	0.000	0.59370	60.00000	Averaged
42 o-Nitroaniline	0.26352	0.27228	0.27228	0.000	3.32320	60.00000	Averaged
41 m-Nitroaniline	0.23739	0.18425	0.18425	0.000	-22.38420	60.00000	Averaged
43 Dimethylphthalate	1.06788	1.08309	1.08309	0.000	1.42450	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25618	0.25069	0.25069	0.000	-2.14558	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32694	0.32413	0.32413	0.000	-0.85958	60.00000	Averaged
45 Acenaphthylene	1.49608	1.53091	1.53091	0.000	2.32853	60.00000	Averaged
47 Acenaphthene	0.98486	0.94232	0.94232	0.001	-4.32021	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	38.32662	40.00000	0.08485	0.050	-4.18346	60.00000	Linear|spcc
49 Dibenzofuran	1.24663	1.26978	1.26978	0.000	1.85712	60.00000	Averaged
51 Diethylphthalate	1.11196	1.17422	1.17422	0.000	5.59886	60.00000	Averaged
52 4-Nitrophenol	40.42977	40.00000	0.17428	0.050	1.07442	60.00000	Linear|spcc
53 Fluorene	1.08097	1.06265	1.06265	0.000	-1.69510	60.00000	Averaged
54 4-Chlorophenylphenylether	0.48501	0.47084	0.47084	0.000	-2.92156	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	44.85829	40.00000	0.09715	0.000	12.14573	60.00000	Linear
56 p-Nitroaniline	33.04368	40.00000	0.16409	0.000	-17.39081	60.00000	Linear
133 Diphenylamine	0.49678	0.46447	0.46447	0.001	-6.50268	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.53526	0.57204	0.57204	0.000	6.87017	60.00000	Averaged
61 4-Bromophenylphenylether	0.14571	0.14007	0.14007	0.000	-3.86606	60.00000	Averaged
63 Hexachlorobenzene	0.14439	0.14653	0.14653	0.000	1.48811	60.00000	Averaged
65 Pentachlorophenol	36.77313	40.00000	0.06843	0.001	-8.06718	20.00000	Linear|ccc
206 n-Octadecane	0.43886	0.48594	0.48594	0.000	10.72874	60.00000	Averaged
68 Phenanthrene	0.90609	0.87581	0.87581	0.000	-3.34180	60.00000	Averaged
69 Anthracene	0.88714	0.86229	0.86229	0.000	-2.80164	60.00000	Averaged
72 Di-n-butylphthalate	1.02492	1.13378	1.13378	0.000	10.62094	60.00000	Averaged
76 Fluoranthene	0.82073	0.82320	0.82320	0.001	0.30120	20.00000	Averaged|ccc
79 Pyrene	1.15824	1.12969	1.12969	0.000	-2.46446	60.00000	Averaged
85 Butylbenzylphthalate	0.58698	0.65836	0.65836	0.000	12.16075	60.00000	Averaged
89 Benzo(a)anthracene	0.92895	0.86744	0.86744	0.000	-6.62112	60.00000	Averaged
92 Chrysene	0.94982	0.92731	0.92731	0.000	-2.37000	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.78569	0.93934	0.93934	0.000	19.55663	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 13-MAR-2010 11:13
 Lab File ID: s3c1303.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
 Analysis Type: Init. Cal. Times: 16:24 07:50
 Lab Sample ID: WBN100309-09.2 Quant Type: ISTD
 Method: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.64565	1.92157	1.92157	0.001	16.76675	20.00000	Averaged|ccc
95 Benzo(b)fluoranthene	1.01530	1.03546	1.03546	0.000	1.98590	60.00000	Averaged|
96 Benzo(k)fluoranthene	1.09669	0.99474	0.99474	0.000	-9.29632	60.00000	Averaged|
97 Benzo(a)pyrene	0.87220	0.84669	0.84669	0.001	-2.92426	20.00000	Averaged|ccc
99 Indeno(1,2,3-cd)pyrene	0.75205	0.79178	0.79178	0.000	5.28296	60.00000	Averaged|
100 Dibenzo(a,h)anthracene	0.61205	0.64972	0.64972	0.000	6.15509	60.00000	Averaged|
101 Benzo(ghi)perylene	0.61782	0.63495	0.63495	0.000	2.77352	60.00000	Averaged|
126 m-Dinitrobenzene	0.18431	0.17804	0.17804	0.000	-3.40352	60.00000	Averaged|
130 2,3,4,6-Tetrachlorophenol	0.22958	0.21123	0.21123	0.000	-7.99248	60.00000	Averaged|
143 Dinoseb	37.23302	40.00000	0.11119	0.000	-6.91746	60.00000	Linear|
173 Carbazole	0.64109	0.52898	0.52898	0.000	-17.48681	60.00000	Averaged|
184 p-Benzoquinone	0.11453	0.06971	0.06971	0.000	-39.13596	60.00000	Averaged|
192 Methoxychlor	0.53933	0.56454	0.56454	0.000	4.67393	60.00000	Averaged|
211 p-Toluidine	1.01837	0.63384	0.63384	0.000	-37.75945	60.00000	Averaged|
210 m-Toluidine	1.36588	1.23847	1.23847	0.000	-9.32810	60.00000	Averaged|
26 Phthalic anhydride	55.15372	40.00000	0.11958	0.000	37.88431	60.00000	Linear|
179 Dibenzo(a,e)pyrene	0.24904	0.25881	0.25881	0.000	3.92023	60.00000	Averaged|
214 1,4-Dinitrobenzene	0.17590	0.18879	0.18879	0.000	7.33102	60.00000	Averaged|
215 2-Ethoxyethanol	0.59008	0.62919	0.62919	0.000	6.62855	60.00000	Averaged|
216 Methylenebis(2-chloroanilin	0.12333	0.08545	0.08545	0.000	-30.71461	60.00000	Averaged|
IM 225 Trichlorophenols	0.29312	0.30709	0.30709	0.000	4.76739	60.00000	Averaged|
IM 226 Tetrachlorophenols	0.22958	0.21123	0.21123	0.000	-7.99248	60.00000	Averaged|
IM 227 Benzo(b,k)fluoranthene	1.05599	1.01510	1.01510	0.000	-3.87260	60.00000	Averaged

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Data file : /chem/MSD3.i/s031310.b/s3c1303.d
 Lab Smp Id: WBN100309-09.2 Client Smp ID: MEGACVS
 Inj Date : 13-MAR-2010 11:13
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |WBN100309-09.2|40PPM|1|SVMF|1|MEGACVS
 Misc Info : |MSD8270|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: MEGAI1.sub
 Target Version: 3.50
 Processing Host: hpc1pl

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
* 10 1,4-Dichlorobenzene-d4		152	3.473	3.473	(1.000)	420090	40.0000	
* 29 Naphthalene-d8		136	4.329	4.329	(1.000)	1737890	40.0000	
* 46 Acenaphthene-d10		164	5.570	5.570	(1.000)	865868	40.0000	
* 67 Phenanthrene-d10		188	6.592	6.592	(1.000)	1487152	40.0000	
* 91 Chrysene-d12		240	8.169	8.169	(1.000)	1106909	40.0000	
* 98 Perylene-d12		264	9.330	9.330	(1.000)	840849	40.0000	
\$ 3 2-Fluorophenol		112	2.682	2.682	(0.772)	381958	40.0000	40.4
\$ 5 Phenol-d5		99	3.206	3.206	(0.923)	438980	40.0000	39.6
\$ 20 Nitrobenzene-d5		82	3.837	3.837	(0.886)	418950	40.0000	42.3
\$ 39 2-Fluorobiphenyl		172	5.073	5.073	(0.911)	934167	40.0000	42.4
\$ 60 2,4,6-Tribromophenol		329	6.126	6.126	(1.100)	80377	40.0000	40.5
\$ 81 p-Terphenyl-d14		244	7.522	7.522	(0.921)	784967	40.0000	45.8
1 N-Methyl-N-nitrosomethylamine		74	2.002	2.002	(0.577)	190017	40.0000	38.8
2 Pyridine		79	2.029	2.029	(0.584)	227869	40.0000	30.6
4 Aniline		66	3.265	3.265	(0.940)	173137	40.0000	36.0
6 Phenol		94	3.217	3.217	(0.926)	462490	40.0000	40.5
7 bis(2-Chloroethyl) ether		63	3.286	3.286	(0.946)	307623	40.0000	37.3
8 2-Chlorophenol		128	3.340	3.340	(0.962)	467995	40.0000	41.6
203 n-Decane		43	3.334	3.334	(0.960)	579358	40.0000	39.6
9 1,3-Dichlorobenzene		146	3.441	3.441	(0.991)	509551	40.0000	40.5
11 1,4-Dichlorobenzene		146	3.484	3.484	(1.003)	524519	40.0000	40.0
13 1,2-Dichlorobenzene		146	3.586	3.586	(1.032)	485156	40.0000	40.2
14 bis(2-Chloroisopropyl)ether		45	3.623	3.623	(1.043)	867880	40.0000	41.7
12 Benzyl alcohol		108	3.548	3.548	(1.022)	275200	40.0000	41.7
15 o-Cresol		107	3.602	3.602	(1.037)	317684	40.0000	40.1
18 m,p-Cresols		107	3.703	3.703	(1.066)	418239	40.0000	41.5

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	3.719	3.719 (1.071)	262753	40.0000	41.4
19 Hexachloroethane	117	3.805	3.805 (1.095)	203271	40.0000	40.7
21 Nitrobenzene	77	3.848	3.848 (0.889)	413258	40.0000	42.2
22 Isophorone	82	4.003	4.003 (0.925)	716265	40.0000	39.9
23 2-Nitrophenol	139	4.056	4.056 (0.937)	247784	40.0000	41.6
24 2,4-Dimethylphenol	122	4.062	4.062 (0.938)	417207	40.0000	42.0
25 bis(2-Chloroethoxy)methane	93	4.131	4.131 (0.954)	442466	40.0000	38.8
26 2,4-Dichlorophenol	162	4.217	4.217 (0.974)	359487	40.0000	41.9
27 Benzoic acid	105	4.120	4.120 (0.952)	111326	40.0000	31.8
28 1,2,4-Trichlorobenzene	180	4.281	4.281 (0.989)	388240	40.0000	39.6
30 Naphthalene	128	4.340	4.340 (1.002)	1319131	40.0000	38.2
204 alpha-Terpineol	59	4.324	4.324 (0.999)	360694	40.0000	39.9
31 4-Chloroaniline	127	4.367	4.367 (1.009)	465923	40.0000	35.0
32 Hexachlorobutadiene	225	4.409	4.409 (1.019)	208145	40.0000	41.6
33 4-Chloro-3-methylphenol	107	4.682	4.682 (1.082)	372269	40.0000	42.8
34 2-Methylnaphthalene	142	4.821	4.821 (1.114)	909756	40.0000	40.6
35 1-Methylnaphthalene	142	4.891	4.891 (1.130)	857576	40.0000	39.0
36 Hexachlorocyclopentadiene	237	4.923	4.923 (0.884)	90249	40.0000	34.5
205 2,3-Dichloroaniline	161	5.019	5.019 (0.901)	442596	40.0000	38.8
37 2,4,6-Trichlorophenol	196	5.014	5.014 (0.900)	246092	40.0000	41.3
38 2,4,5-Trichlorophenol	196	5.040	5.040 (0.905)	285714	40.0000	42.4
40 2-Chloronaphthalene	162	5.169	5.169 (0.928)	802234	40.0000	40.2
42 o-Nitroaniline	65	5.238	5.238 (0.940)	235760	40.0000	41.3
41 m-Nitroaniline	138	5.533	5.533 (0.993)	159536	40.0000	31.0
43 Dimethylphthalate	163	5.351	5.351 (0.961)	937817	40.0000	40.6
44 2,6-Dinitrotoluene	165	5.404	5.404 (0.970)	217063	40.0000	39.1
50 2,4-Dinitrotoluene	165	5.693	5.693 (1.022)	280657	40.0000	39.6
45 Acenaphthylene	152	5.468	5.468 (0.982)	1325570	40.0000	40.9
47 Acenaphthene	154	5.591	5.591 (1.004)	815921	40.0000	38.3
48 2,4-Dinitrophenol	184	5.607	5.607 (1.007)	73468	40.0000	38.3
49 Dibenzofuran	168	5.714	5.714 (1.026)	1099461	40.0000	40.7
51 Diethylphthalate	149	5.848	5.848 (1.050)	1016721	40.0000	42.2
52 4-Nitrophenol	139	5.629	5.629 (1.011)	150906	40.0000	40.4
53 Fluorene	166	5.960	5.960 (1.070)	920112	40.0000	39.3
54 4-Chlorophenylphenylether	204	5.944	5.944 (1.067)	407685	40.0000	38.8
55 2-Methyl-4,6-dinitrophenol	198	5.982	5.982 (0.907)	144472	40.0000	44.8
56 p-Nitroaniline	138	5.966	5.966 (1.071)	142084	40.0000	33.0
133 Diphenylamine	169	6.025	6.025 (0.914)	690743	40.0000	37.4
58 1,2-Diphenylhydrazine	77	6.057	6.057 (0.919)	850707	40.0000	42.7
61 4-Bromophenylphenylether	248	6.281	6.281 (0.953)	208312	40.0000	38.4
63 Hexachlorobenzene	284	6.329	6.329 (0.960)	217918	40.0000	40.6
65 Pentachlorophenol	266	6.458	6.458 (0.980)	101765	40.0000	36.8
206 n-Octadecane	57	6.463	6.463 (0.981)	722674	40.0000	44.3
68 Phenanthrene	178	6.608	6.608 (1.002)	1302465	40.0000	38.7
69 Anthracene	178	6.640	6.640 (1.007)	1282353	40.0000	38.9
72 Di-n-butylphthalate	149	6.912	6.912 (1.049)	1686100	40.0000	44.2
76 Fluoranthene	202	7.324	7.324 (1.111)	1224226	40.0000	40.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.463	7.463	(0.914)	1250466	40.0000	39.0
85 Butylbenzylphthalate	149	7.779	7.779	(0.952)	728743	40.0000	44.9
89 Benzo(a)anthracene	228	8.159	8.159	(0.999)	960176	40.0000	37.4
92 Chrysene	228	8.185	8.185	(1.002)	1026450	40.0000	39.0
93 bis(2-Ethylhexyl)phthalate	149	8.089	8.089	(0.990)	1039764	40.0000	47.8
94 Di-n-octylphthalate	149	8.528	8.528	(0.914)	1615750	40.0000	46.7
95 Benzo(b)fluoranthene	252	8.966	8.966	(0.961)	870667	40.0000	40.8
96 Benzo(k)fluoranthene	252	8.988	8.988	(0.963)	836424	40.0000	36.3
97 Benzo(a)pyrene	252	9.277	9.277	(0.994)	711941	40.0000	38.8
99 Indeno(1,2,3-cd)pyrene	276	10.603	10.603	(1.136)	665768	40.0000	42.1
100 Dibenzo(a,h)anthracene	278	10.608	10.608	(1.137)	546318	40.0000	42.5
101 Benzo(ghi)perylene	276	10.993	10.993	(1.178)	533898	40.0000	41.1
126 m-Dinitrobenzene	168	5.388	5.388	(0.967)	154158	40.0000	38.6
130 2,3,4,6-Tetrachlorophenol	232	5.795	5.795	(1.040)	182896	40.0000	36.8
143 Dinoseb	211	6.559	6.559	(0.995)	165355	40.0000	37.2
173 Carbazole	167	6.736	6.736	(1.022)	786675	40.0000	33.0
184 p-Benzoquinone	54	2.981	2.981	(0.858)	29283	40.0000	24.3
192 Methoxychlor	227	8.068	8.068	(0.988)	624897	40.0000	41.9
211 p-Toluidine	106	3.757	3.757	(1.082)	266269	40.0000	24.9
210 m-Toluidine	106	3.778	3.778	(1.088)	520269	40.0000	36.3
26 Phthalic anhydride	104	4.869	4.869	(1.125)	207825	40.0000	55.2
179 Dibenzo(a,e)pyrene	302	13.999	13.999	(1.500)	217618	40.0000	41.6
214 1,4-Dinitrobenzene	75	5.335	5.335	(0.958)	163470	40.0000	42.9
215 2-Ethoxyethanol	59	1.842	1.842	(0.530)	264318	40.0000	42.6
216 Methylenebis(2-chloroaniline)	231	8.116	8.116	(0.993)	94588	40.0000	27.7
M 225 Trichlorophenols	196				531806	80.0000	83.8
M 226 Tetrachlorophenols	232				182896	40.0000	36.8
M 227 Benzo(b,k)fluoranthene	252				1707091	80.0000	76.9

Data File: /chem/MSD3.i/s031310.b/s301303.d

Date: 13-MAR-2010 11:13

Client ID: MEGACVS

Sample Info: IUBN100309-09.2140PFI11SYNFI11.MEGACVS

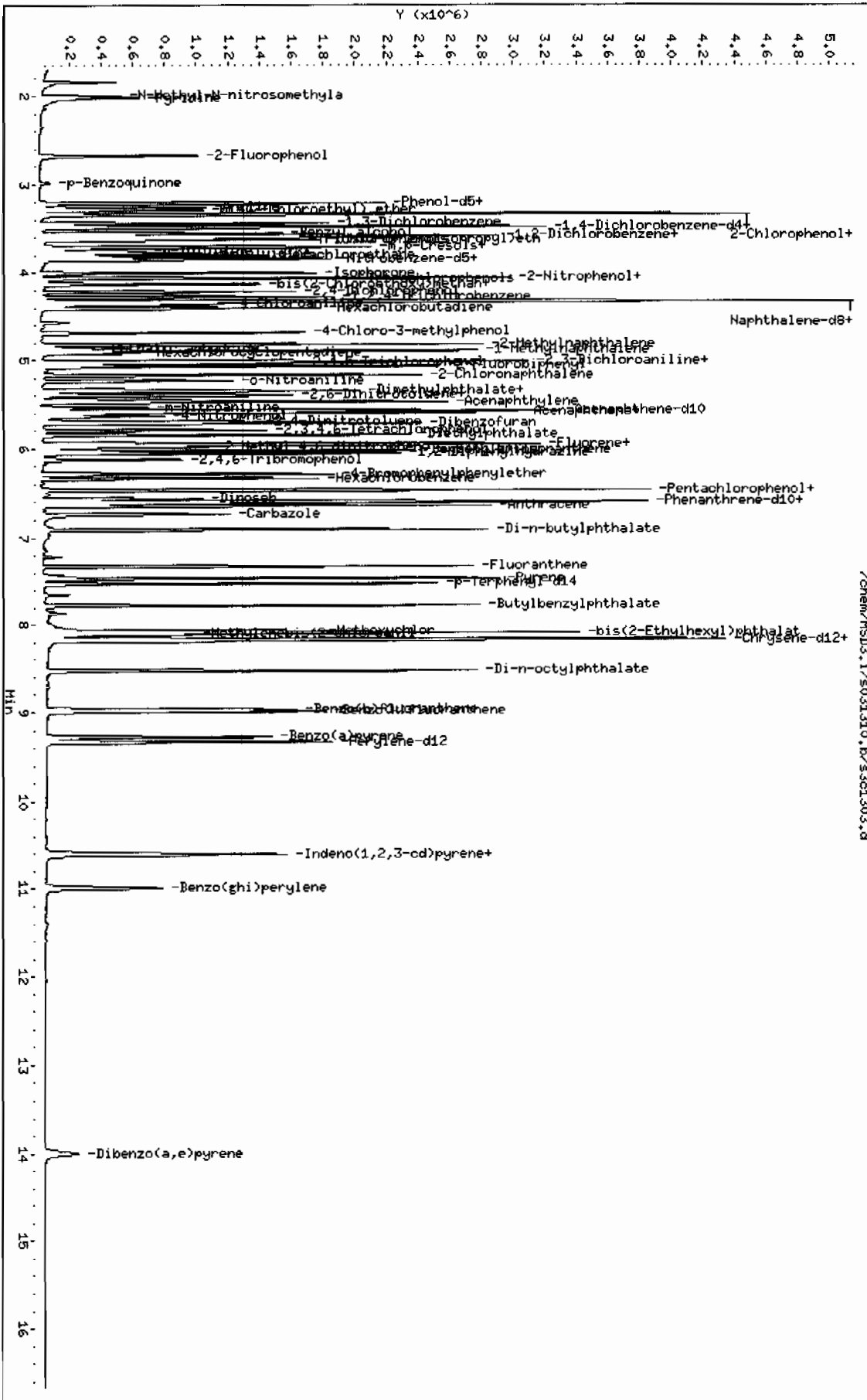
Column phase: JSM DB-5MS

Instrument: MSD3.i

Operator: JLD1

Column diameter: 0.20

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GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 13-MAR-2010 11:36
Lab File ID: s3c1304.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100218-08.3 Quant Type: ISTD
Method: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.68137	0.60956	0.60956|0.000	-10.53964	60.00000	Averaged	
16 Acetophenone	1.09508	1.09271	1.09271|0.000	-0.21580	60.00000	Averaged	
189 Caprolactam	0.08146	0.08916	0.08916|0.000	9.45190	60.00000	Averaged	
208 1,1'-Biphenyl	1.18248	1.27359	1.27359|0.000	7.70562	60.00000	Averaged	
207 Atrazine	0.04487	0.04839	0.04839|0.000	7.84618	60.00000	Averaged	
77 Benzidine	0.42129	0.24248	0.24248|0.000	-42.44404	60.00000	Averaged	
90 3,3'-Dichlorobenzidine	0.26225	0.27172	0.27172|0.000	3.61125	60.00000	Averaged	
102 1,4-Dioxane	0.28469	0.34891	0.34891|0.000	22.55466	60.00000	Averaged	
103 Methyl methacrylate	0.18787	0.22733	0.22733|0.000	20.99954	60.00000	Averaged	
104 Ethyl methacrylate	0.58791	0.72380	0.72380|0.000	23.11436	60.00000	Averaged	
105 2-Picoline	1.01532	0.95225	0.95225|0.000	-6.21172	60.00000	Averaged	
106 N-Nitrosomethylethylamine	0.38527	0.38616	0.38616|0.000	0.23289	60.00000	Averaged	
107 Methyl methanesulfonate	0.42665	0.49352	0.49352|0.000	15.67197	60.00000	Averaged	
108 N-Nitrosodiethylamine	0.44736	0.44109	0.44109|0.000	-1.40006	60.00000	Averaged	
109 Ethyl Methanesulfonate	0.51592	0.64381	0.64381|0.000	24.78794	60.00000	Averaged	
110 Pentachloroethane	0.30632	0.42057	0.42057|0.000	37.29662	60.00000	Averaged	
111 N-Nitrosopyrrolidine	0.46141	0.46429	0.46429|0.000	0.62296	60.00000	Averaged	
113 N-Nitrosomorpholine	0.66901	0.71282	0.71282|0.000	6.54780	60.00000	Averaged	
114 o-Toluidine	1.57594	1.57309	1.57309|0.000	-0.18084	60.00000	Averaged	
115 N-Nitrosopiperidine	0.12674	0.12485	0.12485|0.000	-1.48743	60.00000	Averaged	
116 a,a-Dimethylphenethylamine	0.73521	0.70481	0.70481|0.000	-4.13457	60.00000	Averaged	
118 2,6-Dichlorophenol	0.20189	0.21454	0.21454|0.000	6.26754	60.00000	Averaged	
119 Hexachloropropene	0.08669	0.15153	0.15153|0.000	74.78790	60.00000	Averaged<-	
120 p-Phenylenediamine	0.20529	0.23410	0.23410|0.000	14.03251	60.00000	Averaged	
121 N-Nitrosodi-n-butylamine	0.16562	0.17139	0.17139|0.000	3.48249	60.00000	Averaged	
122 Safrole	0.18406	0.21744	0.21744|0.000	18.13779	60.00000	Averaged	
123 1,2,4,5-Tetrachlorobenzene	0.37863	0.41387	0.41387|0.000	9.30629	60.00000	Averaged	
124 Isosafrole	0.32993	0.45199	0.45199|0.000	36.99488	60.00000	Averaged	
125 1,4-Naphthoquinone	0.30831	0.35035	0.35035|0.000	13.63484	60.00000	Averaged	
127 Pentachlorobenzene	0.31531	0.33342	0.33342|0.000	5.74421	60.00000	Averaged	
128 1-Naphthylamine	0.90758	0.95957	0.95957|0.000	5.72794	60.00000	Averaged	
129 2-Naphthylamine	1.01735	1.04728	1.04728|0.000	2.94262	60.00000	Averaged	
131 5-Nitro-o-toluidine	0.28533	0.29284	0.29284|0.000	2.63265	60.00000	Averaged	
136 1,3,5-Trinitrobenzene	59.58791	40.00000	0.15268|0.000	48.96979	60.00000	Linear	
137 Phenacetin	0.27637	0.31559	0.31559 0.000	14.19205	60.00000	Averaged	
138 Diallate	0.22056	0.22146	0.22146 0.000	0.40641	60.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 13-MAR-2010 11:36
 Lab File ID: s3c1304.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
 Analysis Type: Init. Cal. Times: 16:24 07:50
 Lab Sample ID: WBN100218-08.3 Quant Type: ISTD
 Method: /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE	
140 4-Aminobiphenyl	0.55935	0.51294	0.51294	0.000	-8.29774	60.00000	Averaged
141 Pentachloronitrobenzene	0.06074	0.07264	0.07264	0.000	19.60153	60.00000	Averaged
142 Pronamide	0.27083	0.30438	0.30438	0.000	12.38840	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	49.08212	40.00000	0.01993	0.000	22.70531	60.00000	Linear
147 Methapyrilene	0.36149	0.45174	0.45174	0.000	24.96490	60.00000	Averaged
148 Isodrin	0.09454	0.09722	0.09722	0.000	2.83434	60.00000	Averaged
149 Aramite	0.04557	0.04939	0.04939	0.000	8.39275	60.00000	Averaged
150 Kepone	0.06146	0.06479	0.06479	0.000	5.41668	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.38197	0.35708	0.35708	0.000	-6.51509	60.00000	Averaged
152 Chlorobenzilate	0.30142	0.29591	0.29591	0.000	-1.82586	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.51971	0.45227	0.45227	0.000	-12.97537	60.00000	Averaged
155 2-Acetylaminofluorene	43.39060	40.00000	0.39268	0.000	8.47649	60.00000	Linear
157 7,12Dimethylbenz(a)anthracene	0.49756	0.46429	0.46429	0.000	-6.68662	60.00000	Averaged
158 3-Methylcholanthrene	0.35512	0.43056	0.43056	0.000	21.24277	60.00000	Averaged
212 Cis Diallate	0.22269	0.29567	0.29567	0.000	32.77344	60.00000	Averaged
213 Trans Diallate	0.25949	0.26054	0.26054	0.000	0.40641	60.00000	Averaged

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Data file : /chem/MSD3.i/s031310.b/s3c1304.d
Lab Smp Id: WBN100218-08.3 Client Smp ID: APCVS
Inj Date : 13-MAR-2010 11:36
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |WBN100218-08.3|40PPM|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 13-Mar-2010 14:45 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: hpc1p1

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/ul)	(ng/ul)
* 10 1,4-Dichlorobenzene-d4		152	3.475	3.475	(1.000)	509956	40.0000	
* 29 Naphthalene-d8		136	4.326	4.326	(1.000)	1918653	40.0000	
* 46 Acenaphthene-d10		164	5.566	5.566	(1.000)	1037479	40.0000	
* 67 Phenanthrene-d10		188	6.593	6.593	(1.000)	1766762	40.0000	
* 91 Chrysene-d12		240	8.166	8.166	(1.000)	1420653	40.0000	
* 98 Perylene-d12		264	9.332	9.332	(1.000)	1101087	40.0000	
209 Benzaldehyde		77	3.208	3.208	(0.923)	310847	40.0000	35.8
16 Acetophenone		105	3.727	3.727	(1.072)	557235	40.0000	39.9
189 Caprolactam		113	4.614	4.614	(1.067)	171069	40.0000	43.8
208 1,1'-Biphenyl		154	5.149	5.149	(0.925)	1321326	40.0000	43.1
207 Atrazine		173	6.374	6.374	(0.967)	85498	40.0000	43.1
77 Benzidine		184	7.390	7.390	(0.905)	344476	40.0000	23.0
90 3,3'-Dichlorobenzidine		252	8.123	8.123	(0.995)	386019	40.0000	41.4
102 1,4-Dioxane		88	1.854	1.854	(0.534)	177927	40.0000	49.0
103 Methyl methacrylate		100	1.849	1.849	(0.532)	115927	40.0000	48.4
104 Ethyl methacrylate		69	2.213	2.213	(0.637)	369104	40.0000	49.2
105 2-Picoline		93	2.395	2.395	(0.689)	485606	40.0000	37.5
106 N-Nitrosomethylethylamine		88	2.443	2.443	(0.703)	196926	40.0000	40.1
107 Methyl methanesulfonate		80	2.603	2.603	(0.749)	251671	40.0000	46.3
108 N-Nitrosodiethylamine		102	2.823	2.823	(0.812)	224939	40.0000	39.4
109 Ethyl Methanesulfonate		79	2.983	2.983	(0.858)	328314	40.0000	49.9
110 Pentachloroethane		167	3.299	3.299	(0.949)	214471	40.0000	54.9
111 N-Nitrosopyrrolidine		100	3.716	3.716	(1.069)	236765	40.0000	40.2(Q)
113 N-Nitrosomorpholine		56	3.737	3.737	(1.075)	363506	40.0000	42.6
114 o-Toluidine		106	3.753	3.753	(1.080)	802208	40.0000	39.9
115 N-Nitrosopiperidine		114	3.946	3.946	(0.912)	239546	40.0000	39.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.197	4.197	(0.970)	1352287	40.0000	38.3
118 2,6-Dichlorophenol	162	4.374	4.374	(1.011)	411631	40.0000	42.5
119 Hexachloropropene	213	4.395	4.395	(1.016)	290735	40.0000	69.9
120 p-Phenylenediamine	108	4.614	4.614	(1.067)	449152	40.0000	45.6
121 N-Nitrosodi-n-butylamine	84	4.582	4.582	(1.059)	328842	40.0000	41.4 (QH)
122 Safrole	162	4.743	4.743	(1.096)	417195	40.0000	47.2
123 1,2,4,5-Tetrachlorobenzene	216	4.935	4.935	(0.887)	429377	40.0000	43.7
124 Isosafrole	162	5.112	5.112	(0.918)	468928	40.0000	54.8
125 1,4-Naphthoquinone	158	5.294	5.294	(0.951)	363476	40.0000	45.4
127 Pentachlorobenzene	250	5.679	5.679	(1.020)	345916	40.0000	42.3
128 1-Naphthylamine	143	5.770	5.770	(1.036)	995529	40.0000	42.3
129 2-Naphthylamine	143	5.823	5.823	(1.046)	1086536	40.0000	41.2
131 5-Nitro-o-toluidine	152	5.957	5.957	(1.070)	303812	40.0000	41.0
136 1,3,5-Trinitrobenzene	75	6.203	6.203	(0.941)	269755	40.0000	59.6
137 Phenacetin	108	6.230	6.230	(0.945)	557581	40.0000	45.7 (Q)
138 Diallate	86	6.208	6.208	(0.942)	391268	40.0000	40.2
140 4-Aminobiphenyl	169	6.460	6.460	(0.980)	906236	40.0000	36.7
141 Pentachloronitrobenzene	237	6.465	6.465	(0.981)	128343	40.0000	47.8 (Q)
142 Pronamide	173	6.476	6.476	(0.982)	537762	40.0000	45.0
146 4-Nitroquinoline-1-oxide	101	7.080	7.080	(1.074)	35204	40.0000	49.1
147 Methapyrilene	58	7.096	7.096	(1.076)	798111	40.0000	50.0
148 Isodrin	193	7.235	7.235	(1.097)	171756	40.0000	41.1
149 Aramite	185	7.492	7.492	(1.136)	87261	40.0000	43.4
150 Kepone	272	7.850	7.850	(1.191)	114466	40.0000	42.2
151 p-(Dimethylamino)azobenzene	120	7.604	7.604	(0.931)	507291	40.0000	37.4
152 Chlorobenzilate	251	7.620	7.620	(0.933)	420392	40.0000	39.3
153 3,3'-Dimethylbenzidine	212	7.791	7.791	(0.954)	642521	40.0000	34.8
155 2-Acetylaminofluorene	181	7.947	7.947	(0.973)	557864	40.0000	43.4
157 7,12Dimethylbenz(a)anthracene	256	8.941	8.941	(0.958)	511226	40.0000	37.3
158 3-Methylcholanthrene	268	9.615	9.615	(1.030)	474080	40.0000	48.5 (Q)
212 Cis Diallate	86	6.272	6.272	(0.951)	78356	6.00000	8.0
213 Trans Diallate	86	6.208	6.208	(0.942)	391268	34.0000	34.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD3.i/s031310.b/s031304.d

Date: 13-MAR-2010 11:36

Client ID: APCVS

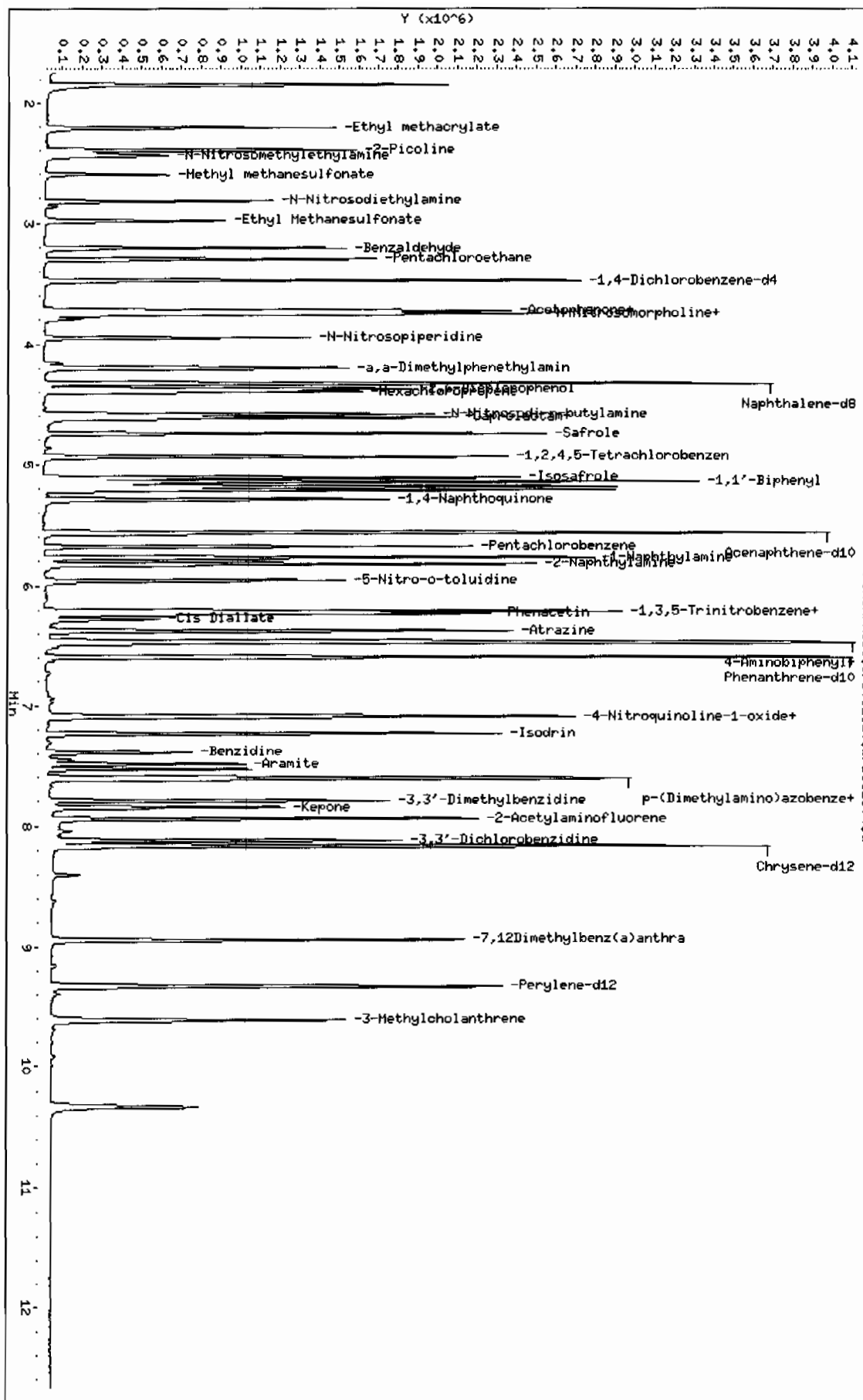
Sample Info: ILEN100218-08.3140PFI11SMF11APCVS

Instrument: MSD3.i

Page 1

Column phase: 3M DB-SHS

Operator: JLD1
Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 15-MAR-2010 15:51
Lab File ID: s3c1509.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100312-03.3 Quant Type: ISTD
Method: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.68137	0.73290	0.73290	0.000	7.56273	60.00000	Averaged
16 Acetophenone	1.09508	1.09860	1.09860	0.000	0.32148	60.00000	Averaged
189 Caprolactam	0.08146	0.08188	0.08188	0.000	0.50967	60.00000	Averaged
208 1,1'-Biphenyl	1.18248	1.23123	1.23123	0.000	4.12310	60.00000	Averaged
207 Atrazine	0.04487	0.04325	0.04325	0.000	-3.60517	60.00000	Averaged
77 Benzidine	0.42129	0.24924	0.24924	0.000	-40.83796	60.00000	Averaged
90 3,3'-Dichlorobenzidine	0.26225	0.27630	0.27630	0.000	5.35641	60.00000	Averaged
102 1,4-Dioxane	0.28469	0.25477	0.25477	0.000	-10.51221	60.00000	Averaged
103 Methyl methacrylate	0.18787	0.17188	0.17188	0.000	-8.51280	60.00000	Averaged
104 Ethyl methacrylate	0.58791	0.55925	0.55925	0.000	-4.87439	60.00000	Averaged
105 2-Picoline	1.01532	0.94249	0.94249	0.000	-7.17338	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.38527	0.36972	0.36972	0.000	-4.03453	60.00000	Averaged
107 Methyl methanesulfonate	0.42665	0.45185	0.45185	0.000	5.90628	60.00000	Averaged
108 N-Nitrosodiethylamine	0.44736	0.45482	0.45482	0.000	1.66802	60.00000	Averaged
109 Ethyl Methanesulfonate	0.51592	0.51205	0.51205	0.000	-0.75098	60.00000	Averaged
110 Pentachloroethane	0.30632	0.31696	0.31696	0.000	3.47437	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.46141	0.48722	0.48722	0.000	5.59463	60.00000	Averaged
113 N-Nitrosomorpholine	0.66901	0.73217	0.73217	0.000	9.44054	60.00000	Averaged
114 o-Toluidine	1.57594	1.55214	1.55214	0.000	-1.51033	60.00000	Averaged
115 N-Nitrosopiperidine	0.12674	0.12302	0.12302	0.000	-2.93465	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.73521	0.76917	0.76917	0.000	4.61934	60.00000	Averaged
118 2,6-Dichlorophenol	0.20189	0.20402	0.20402	0.000	1.05442	60.00000	Averaged
119 Hexachloropropene	0.08669	0.09797	0.09797	0.000	13.00300	60.00000	Averaged
120 p-Phenylenediamine	0.20529	0.19861	0.19861	0.000	-3.25569	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.16562	0.16927	0.16927	0.000	2.20138	60.00000	Averaged
122 Safrole	0.18406	0.18236	0.18236	0.000	-0.92049	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.37863	0.37612	0.37612	0.000	-0.66199	60.00000	Averaged
124 Isosafrole	0.32993	0.33327	0.33327	0.000	1.01083	60.00000	Averaged
125 1,4-Naphthoquinone	0.30831	0.32541	0.32541	0.000	5.54695	60.00000	Averaged
127 Pentachlorobenzene	0.31531	0.31069	0.31069	0.000	-1.46484	60.00000	Averaged
128 1-Naphthylamine	0.90758	0.93573	0.93573	0.000	3.10127	60.00000	Averaged
129 2-Naphthylamine	1.01735	1.02117	1.02117	0.000	0.37604	60.00000	Averaged
131 5-Nitro-o-toluidine	0.28533	0.28655	0.28655	0.000	0.43043	60.00000	Averaged
136 1,3,5-Trinitrobenzene	49.52639	40.00000	0.12464	0.000	23.81596	60.00000	Linear
137 Phenacetin	0.27637	0.29007	0.29007	0.000	4.95729	60.00000	Averaged
138 Diallate	0.22056	0.22560	0.22560	0.000	2.28232	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 15-MAR-2010 15:51
 Lab File ID: s3c1509.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
 Analysis Type: Init. Cal. Times: 16:24 07:50
 Lab Sample ID: WBN100312-03.3 Quant Type: ISTD
 Method: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
140 4-Aminobiphenyl	0.55935	0.47203	0.47203	0.000	-15.61047	60.00000	Averaged
141 Pentachloronitrobenzene	0.06074	0.07065	0.07065	0.000	16.31401	60.00000	Averaged
142 Pronamide	0.27083	0.29555	0.29555	0.000	9.12988	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	38.91562	40.00000	0.01582	0.000	-2.71094	60.00000	Linear
147 Methapyrilene	0.36149	0.48673	0.48673	0.000	34.64559	60.00000	Averaged
148 Isodrin	0.09454	0.09867	0.09867	0.000	4.37074	60.00000	Averaged
149 Aramite	0.04557	0.04176	0.04176	0.000	-8.34740	60.00000	Averaged
150 Kepone	0.06146	0.05996	0.05996	0.000	-2.43459	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.38197	0.43118	0.43118	0.000	12.88466	60.00000	Averaged
152 Chlorobenzilate	0.30142	0.31385	0.31385	0.000	4.12407	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.51971	0.50428	0.50428	0.000	-2.96905	60.00000	Averaged
155 2-Acetylaminofluorene	45.63223	40.00000	0.41643	0.000	14.08058	60.00000	Linear
157 7,12Dimethylbenz(a)anthracene	0.49756	0.50199	0.50199	0.000	0.89004	60.00000	Averaged
158 3-Methylcholanthrene	0.35512	0.40436	0.40436	0.000	13.86655	60.00000	Averaged
212 Cis Diallate	0.22269	0.23044	0.23044	0.000	3.48049	60.00000	Averaged
213 Trans Diallate	0.25949	0.26541	0.26541	0.000	2.28232	60.00000	Averaged

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031510.b/s3c1509.d
 Lab Smp Id: WBN100312-03.3 Client Smp ID: APCVS
 Inj Date : 15-MAR-2010 15:51
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |WBN100312-03.3|40PPM|1|SVMF|1|APCVS
 Misc Info : |MSD8270|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m
 Meth Date : 15-Mar-2010 17:51 llo00884 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50
 Processing Host: hpclp1

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT	ON-COL
	MASS					(ng/ul)	(ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.550	3.550	(1.000)	461877	40.0000	
* 29 Naphthalene-d8	136	4.400	4.400	(1.000)	1740914	40.0000	
* 46 Acenaphthene-d10	164	5.647	5.647	(1.000)	939560	40.0000	
* 67 Phenanthrene-d10	188	6.663	6.663	(1.000)	1584938	40.0000	
* 91 Chrysene-d12	240	8.251	8.251	(1.000)	995320	40.0000	
* 98 Perylene-d12	264	9.466	9.466	(1.000)	684184	40.0000	
209 Benzaldehyde	77	3.283	3.283	(0.925)	338510	40.0000	43.0
16 Acetophenone	105	3.801	3.801	(1.071)	507416	40.0000	40.1
189 Caprolactam	113	4.684	4.684	(1.064)	142540	40.0000	40.2
208 1,1'-Biphenyl	154	5.224	5.224	(0.925)	1156815	40.0000	41.6
207 Atrazine	173	6.444	6.444	(0.967)	68555	40.0000	38.6
77 Benzidine	184	7.460	7.460	(0.904)	248077	40.0000	23.7
90 3,3'-Dichlorobenzidine	252	8.203	8.203	(0.994)	275003	40.0000	42.1
102 1,4-Dioxane	88	1.924	1.924	(0.542)	117671	40.0000	35.8
103 Methyl methacrylate	100	1.919	1.919	(0.540)	79388	40.0000	36.6
104 Ethyl methacrylate	69	2.282	2.282	(0.643)	258304	40.0000	38.0
105 2-Picoline	93	2.464	2.464	(0.694)	435313	40.0000	37.1
106 N-Nitrosomethylethylamine	88	2.512	2.512	(0.708)	170766	40.0000	38.4
107 Methyl methanesulfonate	80	2.673	2.673	(0.753)	208699	40.0000	42.4
108 N-Nitrosodiethylamine	102	2.897	2.897	(0.816)	210071	40.0000	40.7
109 Ethyl Methanesulfonate	79	3.053	3.053	(0.860)	236503	40.0000	39.7
110 Pentachloroethane	167	3.373	3.373	(0.950)	146398	40.0000	41.4
111 N-Nitrosopyrrolidine	100	3.791	3.791	(1.068)	225038	40.0000	42.2 (Q)
113 N-Nitrosomorpholine	56	3.812	3.812	(1.074)	338173	40.0000	43.8
114 o-Toluidine	106	3.828	3.828	(1.078)	716898	40.0000	39.4
115 N-Nitrosopiperidine	114	4.021	4.021	(0.914)	214162	40.0000	38.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.267	4.267	(0.970)	1339059	40.0000	41.8
118 2,6-Dichlorophenol	162	4.449	4.449	(1.011)	355176	40.0000	40.4
119 Hexachloropropene	213	4.470	4.470	(1.016)	170552	40.0000	45.2
120 p-Phenylenediamine	108	4.689	4.689	(1.066)	345757	40.0000	38.7
121 N-Nitrosodi-n-butylamine	84	4.657	4.657	(1.058)	294685	40.0000	40.9(Q)
122 Saffrole	162	4.818	4.818	(1.095)	317479	40.0000	39.6
123 1,2,4,5-Tetrachlorobenzene	216	5.010	5.010	(0.887)	353390	40.0000	39.7
124 Isosaffrole	162	5.187	5.187	(0.919)	313123	40.0000	40.4
125 1,4-Naphthoquinone	158	5.369	5.369	(0.951)	305742	40.0000	42.2
127 Pentachlorobenzene	250	5.759	5.759	(1.020)	291911	40.0000	39.4
128 1-Naphthylamine	143	5.845	5.845	(1.035)	879171	40.0000	41.2
129 2-Naphthylamine	143	5.903	5.903	(1.045)	959454	40.0000	40.2
131 5-Nitro-o-toluidine	152	6.032	6.032	(1.068)	269234	40.0000	40.2
136 1,3,5-Trinitrobenzene	75	6.272	6.272	(0.941)	197543	40.0000	49.5
137 Phenacetin	108	6.299	6.299	(0.945)	459747	40.0000	42.0(Q)
138 Diallate	86	6.283	6.283	(0.943)	357559	40.0000	40.9
140 4-Aminobiphenyl	169	6.529	6.529	(0.980)	748142	40.0000	33.8
141 Pentachloronitrobenzene	237	6.535	6.535	(0.981)	111970	40.0000	46.5(Q)
142 Pronamide	173	6.545	6.545	(0.982)	468432	40.0000	43.6
146 4-Nitroquinoline-1-oxide	101	7.144	7.144	(1.072)	25079	40.0000	38.9
147 Methapyrilene	58	7.166	7.166	(1.075)	771439	40.0000	53.8
148 Isodrin	193	7.310	7.310	(1.097)	156382	40.0000	41.7
149 Aramite	185	7.556	7.556	(1.134)	66191	40.0000	36.7
150 Kepone	272	7.925	7.925	(1.189)	95038	40.0000	39.0
151 p-(Dimethylamino)azobenzene	120	7.668	7.668	(0.929)	429166	40.0000	45.2
152 Chlorobenzilate	251	7.690	7.690	(0.932)	312380	40.0000	41.6
153 3,3'-Dimethylbenzidine	212	7.866	7.866	(0.953)	501915	40.0000	38.8
155 2-Acetylaminofluorene	181	8.021	8.021	(0.972)	414485	40.0000	45.6
157 7,12Dimethylbenz(a)anthracene	256	9.059	9.059	(0.957)	343454	40.0000	40.4
158 3-Methylcholanthrene	268	9.760	9.760	(1.031)	276658	40.0000	45.5(Q)
212 Cis Diallate	86	6.342	6.342	(0.952)	54784	6.00000	6.2
213 Trans Diallate	86	6.283	6.283	(0.943)	357559	34.0000	34.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD3.i/s031510.b/s3c1509.d

Date: 15-MAR-2010 15:51

Client ID: APCVS

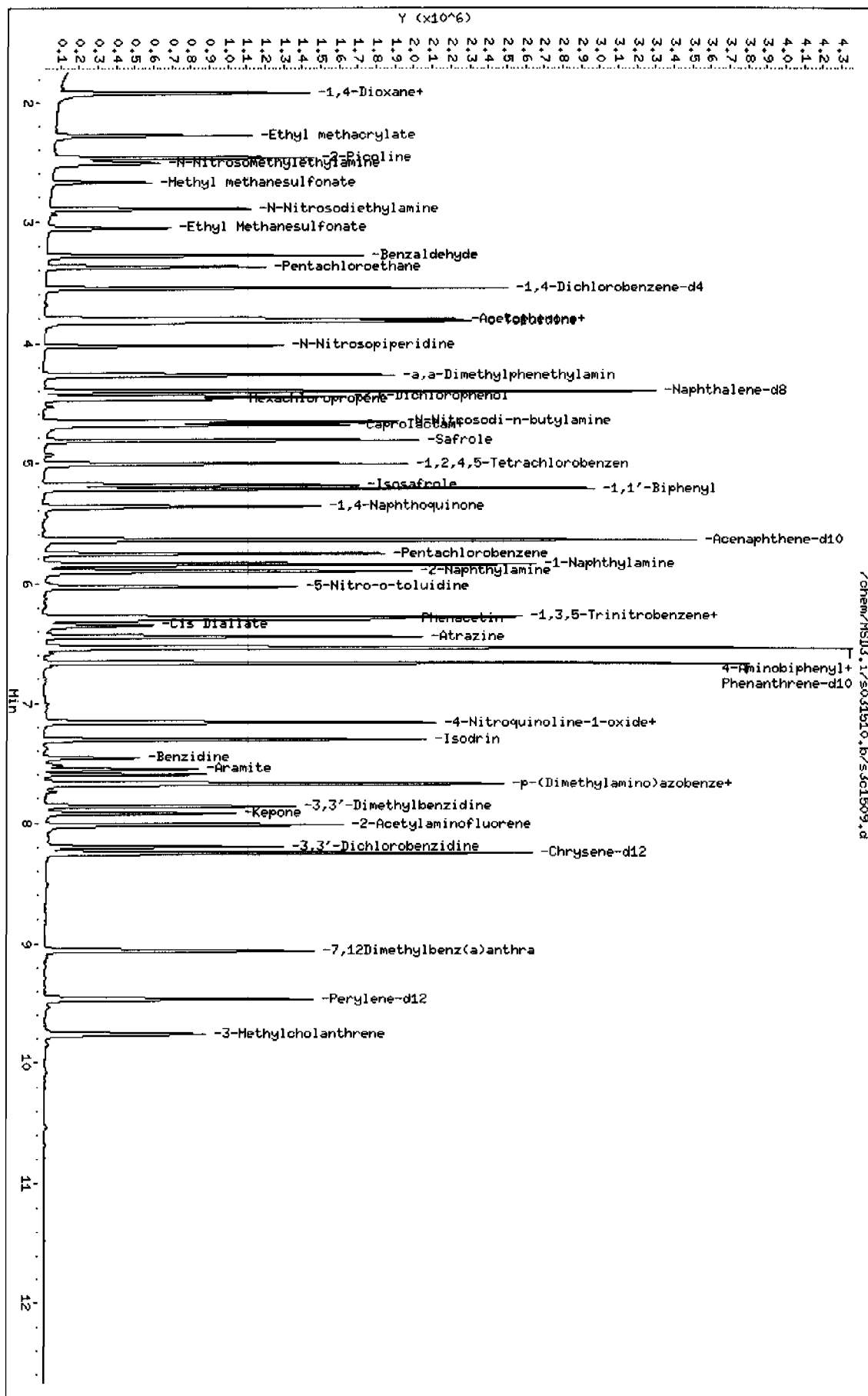
Sample Info: IWBNI00312-03.3140PPH11SVHF11APCVS

Column phase: J&W DB-5MS

Instrument: MSD3.i

Operator: JLD1

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 15-MAR-2010 16:32
Lab File ID: s3c1510.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100309-05.2 Quant Type: ISTD
Method: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.89892	0.88641	0.88641	0.000	-1.39166	60.00000	Averaged
5 Phenol-d5	1.05609	1.07129	1.07129	0.000	1.43931	60.00000	Averaged
20 Nitrobenzene-d5	0.22771	0.23885	0.23885	0.000	4.89258	60.00000	Averaged
39 2-Fluorobiphenyl	1.01769	1.03125	1.03125	0.000	1.33302	60.00000	Averaged
60 2,4,6-Tribromophenol	0.09171	0.08505	0.08505	0.000	-7.26418	60.00000	Averaged
81 p-Terphenyl-d14	0.62002	0.67829	0.67829	0.000	9.39928	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.46588	0.45298	0.45298	0.000	-2.76911	60.00000	Averaged
2 Pyridine	0.70848	0.65673	0.65673	0.000	-7.30472	60.00000	Averaged
4 Aniline	0.45798	0.46301	0.46301	0.000	1.09796	60.00000	Averaged
6 Phenol	1.08710	1.07704	1.07704	0.001	-0.92507	20.00000	Averaged|ccc
7 bis(2-Chloroethyl) ether	0.78465	0.81100	0.81100	0.000	3.35894	60.00000	Averaged
8 2-Chlorophenol	1.07160	1.10179	1.10179	0.000	2.81755	60.00000	Averaged
203 n-Decane	1.39262	1.44474	1.44474	0.000	3.74217	60.00000	Averaged
9 1,3-Dichlorobenzene	1.19859	1.23313	1.23313	0.000	2.88143	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24950	1.30372	1.30372	0.001	4.33969	20.00000	Averaged|ccc
13 1,2-Dichlorobenzene	1.14996	1.18606	1.18606	0.000	3.13891	60.00000	Averaged
14 bis(2-Chloroisopropyl) ether	1.97993	2.22862	2.22862	0.000	12.56052	60.00000	Averaged
12 Benzyl alcohol	0.62769	0.61644	0.61644	0.000	-1.79114	60.00000	Averaged
15 o-Cresol	0.75438	0.76812	0.76812	0.000	1.82129	60.00000	Averaged
18 m,p-Cresols	0.95968	0.95392	0.95392	0.000	-0.60013	60.00000	Averaged
17 N-Nitrosodipropylamine	0.60373	0.62851	0.62851	0.050	4.10369	60.00000	Averaged|spcc
19 Hexachloroethane	0.47563	0.52066	0.52066	0.000	9.46617	60.00000	Averaged
21 Nitrobenzene	0.22558	0.24161	0.24161	0.000	7.10740	60.00000	Averaged
22 Isophorone	0.41268	0.42908	0.42908	0.000	3.97357	60.00000	Averaged
23 2-Nitrophenol	0.13693	0.14330	0.14330	0.001	4.65351	20.00000	Averaged|ccc
24 2,4-Dimethylphenol	0.22834	0.23660	0.23660	0.000	3.61865	60.00000	Averaged
25 bis(2-Chloroethoxy) methane	0.26264	0.27012	0.27012	0.000	2.84621	60.00000	Averaged
26 2,4-Dichlorophenol	0.19757	0.20038	0.20038	0.001	1.41915	20.00000	Averaged|ccc
27 Benzoic acid	32.91370	40.00000	0.06872	0.000	-17.71574	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.22540	0.22814	0.22814	0.000	1.21764	60.00000	Averaged
30 Naphthalene	0.79364	0.80549	0.80549	0.000	1.49304	60.00000	Averaged
204 alpha-Terpineol	0.20813	0.22964	0.22964	0.000	10.33632	60.00000	Averaged
31 4-Chloroaniline	0.30660	0.31529	0.31529	0.000	2.83407	60.00000	Averaged
32 Hexachlorobutadiene	0.11504	0.11999	0.11999	0.001	4.29973	20.00000	Averaged|ccc
33 4-Chloro-3-methylphenol	0.19999	0.20542	0.20542	0.001	2.71383	20.00000	Averaged|ccc
34 2-Methylnaphthalene	0.51543	0.51720	0.51720	0.000	0.34389	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 15-MAR-2010 16:32
Lab File ID: s3c1510.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100309-05.2 Quant Type: ISTD
Method: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.50574	0.50387	0.50387	0.000	-0.36889	60.00000	Averaged
36 Hexachlorocyclopentadiene	52.43954	40.00000	0.16973	0.050	31.09885	60.00000	Linear|spcc
205 2,3-Dichloroaniline	0.52633	0.52823	0.52823	0.000	0.36061	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.27504	0.26652	0.26652	0.001	-3.09960	20.00000	Averaged|ccc
38 2,4,5-Trichlorophenol	0.31120	0.31776	0.31776	0.000	2.10938	60.00000	Averaged
40 2-Chloronaphthalene	0.92104	0.92041	0.92041	0.000	-0.06797	60.00000	Averaged
42 o-Nitroaniline	0.26352	0.28267	0.28267	0.000	7.26402	60.00000	Averaged
41 m-Nitroaniline	0.23739	0.22135	0.22135	0.000	-6.75459	60.00000	Averaged
43 Dimethylphthalate	1.06788	1.07154	1.07154	0.000	0.34286	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25618	0.25210	0.25210	0.000	-1.59469	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32694	0.32930	0.32930	0.000	0.72130	60.00000	Averaged
45 Acenaphthylene	1.49608	1.52267	1.52267	0.000	1.77772	60.00000	Averaged
47 Acenaphthene	0.98486	0.99535	0.99535	0.001	1.06469	20.00000	Averaged|ccc
48 2,4-Dinitrophenol	39.08161	40.00000	0.08736	0.050	-2.29597	60.00000	Linear|spcc
49 Dibenzofuran	1.24663	1.25970	1.25970	0.000	1.04856	60.00000	Averaged
51 Diethylphthalate	1.11196	1.16802	1.16802	0.000	5.04085	60.00000	Averaged
52 4-Nitrophenol	39.20587	40.00000	0.16821	0.050	-1.98533	60.00000	Linear|spcc
53 Fluorene	1.08097	1.09669	1.09669	0.000	1.45382	60.00000	Averaged
54 4-Chlorophenylphenylether	0.48501	0.47631	0.47631	0.000	-1.79377	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	40.85123	40.00000	0.08720	0.000	2.12809	60.00000	Linear
56 p-Nitroaniline	33.84742	40.00000	0.16918	0.000	-15.38146	60.00000	Linear
133 Diphenylamine	0.49678	0.51083	0.51083	0.001	2.82873	20.00000	Averaged|ccc
58 1,2-Diphenylhydrazine	0.53526	0.59824	0.59824	0.000	11.76562	60.00000	Averaged
61 4-Bromophenylphenylether	0.14571	0.14984	0.14984	0.000	2.83437	60.00000	Averaged
63 Hexachlorobenzene	0.14439	0.14680	0.14680	0.000	1.67587	60.00000	Averaged
65 Pentachlorophenol	40.01030	40.00000	0.07578	0.001	0.02575	20.00000	Linear|ccc
206 n-Octadecane	0.43886	0.46662	0.46662	0.000	6.32607	60.00000	Averaged
68 Phenanthrene	0.90609	0.92222	0.92222	0.000	1.77949	60.00000	Averaged
69 Anthracene	0.88714	0.95808	0.95808	0.000	7.99621	60.00000	Averaged
72 Di-n-butylphthalate	1.02492	1.10433	1.10433	0.000	7.74732	60.00000	Averaged
76 Fluoranthene	0.82073	0.81643	0.81643	0.001	-0.52367	20.00000	Averaged|ccc
79 Pyrene	1.15824	1.29293	1.29293	0.000	11.62963	60.00000	Averaged
85 Butylbenzylphthalate	0.58698	0.66139	0.66139	0.000	12.67689	60.00000	Averaged
89 Benzo(a)anthracene	0.92895	0.99510	0.99510	0.000	7.12133	60.00000	Averaged
92 Chrysene	0.94982	0.86417	0.86417	0.000	-9.01757	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.78569	0.84755	0.84755	0.000	7.87433	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD3.i Injection Date: 15-MAR-2010 16:32
Lab File ID: s3c1510.d Init. Cal. Date(s): 09-MAR-2010 10-MAR-2010
Analysis Type: Init. Cal. Times: 16:24 07:50
Lab Sample ID: WBN100309-05.2 Quant Type: ISTD
Method: /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.64565	1.91804	1.91804	0.001	16.55223	20.00000	Averaged|ccc
95 Benzo(b)fluoranthene	1.01530	0.97810	0.97810	0.000	-3.66399	60.00000	Averaged|
96 Benzo(k)fluoranthene	1.09669	1.18726	1.18726	0.000	8.25878	60.00000	Averaged|
97 Benzo(a)pyrene	0.87220	0.88809	0.88809	0.001	1.82170	20.00000	Averaged|ccc
99 Indeno(1,2,3-cd)pyrene	0.75205	0.77895	0.77895	0.000	3.57689	60.00000	Averaged|
100 Dibenzo(a,h)anthracene	0.61205	0.63380	0.63380	0.000	3.55370	60.00000	Averaged|
101 Benzo(ghi)perylene	0.61782	0.61322	0.61322	0.000	-0.74445	60.00000	Averaged|
126 m-Dinitrobenzene	0.18431	0.18441	0.18441	0.000	0.05129	60.00000	Averaged|
130 2,3,4,6-Tetrachlorophenol	0.22958	0.23213	0.23213	0.000	1.11363	60.00000	Averaged|
143 Dinoseb	39.42488	40.00000	0.11919	0.000	-1.43780	60.00000	Linear|
173 Carbazole	0.64109	0.57184	0.57184	0.000	-10.80080	60.00000	Averaged|
184 p-Benzoquinone	0.11453	0.14294	0.14294	0.000	24.81068	60.00000	Averaged|
192 Methoxychlor	0.53933	0.56802	0.56802	0.000	5.31884	60.00000	Averaged|
211 p-Toluidine	1.01837	0.95512	0.95512	0.000	-6.21068	60.00000	Averaged|
210 m-Toluidine	1.36588	1.33013	1.33013	0.000	-2.61728	60.00000	Averaged|
26 Phthalic anhydride	34.32740	40.00000	0.06750	0.000	-14.18151	60.00000	Linear|
179 Dibenzo(a,e)pyrene	0.24904	0.31003	0.31003	0.000	24.48738	60.00000	Averaged|
214 1,4-Dinitrobenzene	0.17590	0.18956	0.18956	0.000	7.76767	60.00000	Averaged|
215 2-Ethoxyethanol	0.59008	0.60538	0.60538	0.000	2.59258	60.00000	Averaged|
216 Methylenebis(2-chloroanilin	0.12333	0.07249	0.07249	0.000	-41.22685	60.00000	Averaged|
IM 225 Trichlorophenols	0.29312	0.29214	0.29214	0.000	-0.33450	60.00000	Averaged|
IM 226 Tetrachlorophenols	0.22958	0.23213	0.23213	0.000	1.11363	60.00000	Averaged|
IM 227 Benzo(b,k)fluoranthene	1.05599	1.08268	1.08268	0.000	2.52713	60.00000	Averaged|

Data File: /chem/MSD3.i/s031510.b/s3c1510.d
Report Date: 16-Mar-2010 09:03

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031510.b/s3c1510.d
Lab Smp Id: WBN100309-05.2 Client Smp ID: MEGACVS
Inj Date : 15-MAR-2010 16:32
Operator : nagl Inst ID: MSD3.i
Smp Info : |WBN100309-05.2|40PPM|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100310-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031510.b/MSD3-8270R-AQA-030910.m
Meth Date : 16-Mar-2010 09:03 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGAI1.sub
Target Version: 3.50
Processing Host: hpc1p1

Compounds	QUANT SIG			RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS							CAL-AMT	ON-COL
								(ng/ul)	(ng/ul)
=====	=====	FF	=====	=====	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152		3.548	3.548	(1.000)	531357	40.0000		
* 29 Naphthalene-d8	136		4.404	4.404	(1.000)	2231127	40.0000		
* 46 Acenaphthene-d10	164		5.645	5.645	(1.000)	1121632	40.0000		
* 67 Phenanthrene-d10	188		6.661	6.661	(1.000)	1840988	40.0000		
* 91 Chrysene-d12	240		8.255	8.255	(1.000)	1216449	40.0000		
* 98 Perylene-d12	264		9.469	9.469	(1.000)	777802	40.0000		
\$ 3 2-Fluorophenol	112		2.751	2.751	(0.775)	471001	40.0000		39.4
\$ 5 Phenol-d5	99		3.276	3.276	(0.923)	569236	40.0000		40.6
\$ 20 Nitrobenzene-d5	82		3.912	3.912	(0.888)	532913	40.0000		42.0
\$ 39 2-Fluorobiphenyl	172		5.148	5.148	(0.912)	1156687	40.0000		40.5
\$ 60 2,4,6-Tribromophenol	329		6.201	6.201	(1.099)	95397	40.0000		37.1
\$ 81 p-Terphenyl-d14	244		7.592	7.592	(0.920)	825111	40.0000		43.8
1 N-Methyl-N-nitrosomethylamine	74		2.088	2.088	(0.588)	240692	40.0000		38.9
2 Pyridine	79		2.110	2.110	(0.594)	348957	40.0000		37.1
4 Aniline	66		3.340	3.340	(0.941)	246024	40.0000		40.4
6 Phenol	94		3.286	3.286	(0.926)	572293	40.0000		39.6
7 bis(2-Chloroethyl) ether	63		3.361	3.361	(0.947)	430933	40.0000		41.3
8 2-Chlorophenol	128		3.415	3.415	(0.962)	585443	40.0000		41.1
203 n-Decane	43		3.404	3.404	(0.959)	767672	40.0000		41.5
9 1,3-Dichlorobenzene	146		3.516	3.516	(0.991)	655231	40.0000		41.2
11 1,4-Dichlorobenzene	146		3.559	3.559	(1.003)	692743	40.0000		41.7
13 1,2-Dichlorobenzene	146		3.661	3.661	(1.032)	630222	40.0000		41.2
14 bis(2-Chloroisopropyl) ether	45		3.698	3.698	(1.042)	1184193	40.0000		45.0
12 Benzyl alcohol	108		3.623	3.623	(1.021)	327551	40.0000		39.3
15 o-Cresol	107		3.671	3.671	(1.035)	408145	40.0000		40.7
18 m,p-Cresols	107		3.778	3.778	(1.065)	506871	40.0000		39.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	3.794	3.794	(1.069)	333961	40.0000	41.6
19 Hexachloroethane	117	3.880	3.880	(1.093)	276654	40.0000	43.8
21 Nitrobenzene	77	3.923	3.923	(0.891)	539063	40.0000	42.8
22 Isophorone	82	4.078	4.078	(0.926)	957327	40.0000	41.6
23 2-Nitrophenol	139	4.137	4.137	(0.939)	319729	40.0000	41.9
24 2,4-Dimethylphenol	122	4.137	4.137	(0.939)	527888	40.0000	41.4
25 bis(2-Chloroethoxy)methane	93	4.201	4.201	(0.954)	602666	40.0000	41.1
26 2,4-Dichlorophenol	162	4.292	4.292	(0.974)	447070	40.0000	40.6
27 Benzoic acid	105	4.201	4.201	(0.954)	153334	40.0000	32.9
28 1,2,4-Trichlorobenzene	180	4.356	4.356	(0.989)	509009	40.0000	40.5
30 Naphthalene	128	4.420	4.420	(1.004)	1797140	40.0000	40.6
204 alpha-Terpineol	59	4.404	4.404	(1.000)	512353	40.0000	44.1
31 4-Chloroaniline	127	4.442	4.442	(1.008)	703458	40.0000	41.1
32 Hexachlorobutadiene	225	4.484	4.484	(1.018)	267703	40.0000	41.7
33 4-Chloro-3-methylphenol	107	4.757	4.757	(1.080)	458318	40.0000	41.1
34 2-Methylnaphthalene	142	4.896	4.896	(1.112)	1153928	40.0000	40.1
35 1-Methylnaphthalene	142	4.971	4.971	(1.129)	1124207	40.0000	39.8
36 Hexachlorocyclopentadiene	237	4.998	4.998	(0.885)	190370	40.0000	52.4
205 2,3-Dichloroaniline	161	5.094	5.094	(0.902)	592479	40.0000	40.1
37 2,4,6-Trichlorophenol	196	5.089	5.089	(0.901)	298937	40.0000	38.8
38 2,4,5-Trichlorophenol	196	5.115	5.115	(0.906)	356409	40.0000	40.8
40 2-Chloronaphthalene	162	5.249	5.249	(0.930)	1032366	40.0000	40.0
42 o-Nitroaniline	65	5.313	5.313	(0.941)	317048	40.0000	42.9
41 m-Nitroaniline	138	5.608	5.608	(0.993)	248276	40.0000	37.3
43 Dimethylphthalate	163	5.431	5.431	(0.962)	1201878	40.0000	40.1
44 2,6-Dinitrotoluene	165	5.479	5.479	(0.971)	282763	40.0000	39.4
50 2,4-Dinitrotoluene	165	5.773	5.773	(1.023)	369356	40.0000	40.3
45 Acenaphthylene	152	5.549	5.549	(0.983)	1707880	40.0000	40.7
47 Acenaphthene	154	5.672	5.672	(1.005)	1116416	40.0000	40.4
48 2,4-Dinitrophenol	184	5.682	5.682	(1.007)	97987	40.0000	39.1
49 Dibenzofuran	168	5.795	5.795	(1.027)	1412919	40.0000	40.4
51 Diethylphthalate	149	5.923	5.923	(1.049)	1310085	40.0000	42.0
52 4-Nitrophenol	139	5.704	5.704	(1.010)	188666	40.0000	39.2
53 Fluorene	166	6.035	6.035	(1.069)	1230078	40.0000	40.6
54 4-Chlorophenylphenylether	204	6.019	6.019	(1.066)	534244	40.0000	39.3
55 2-Methyl-4,6-dinitrophenol	198	6.062	6.062	(0.910)	160534	40.0000	40.8
56 p-Nitroaniline	138	6.041	6.041	(1.070)	189758	40.0000	33.8
133 Diphenylamine	169	6.100	6.100	(0.916)	940432	40.0000	41.1
58 1,2-Diphenylhydrazine	77	6.132	6.132	(0.920)	1101355	40.0000	44.7
61 4-Bromophenylphenylether	248	6.356	6.356	(0.954)	275849	40.0000	41.1
63 Hexachlorobenzene	284	6.404	6.404	(0.961)	270266	40.0000	40.7
65 Pentachlorophenol	266	6.528	6.528	(0.980)	139507	40.0000	40.0
206 n-Octadecane	57	6.533	6.533	(0.981)	859048	40.0000	42.5
68 Phenanthrene	178	6.677	6.677	(1.002)	1697787	40.0000	40.7
69 Anthracene	178	6.709	6.709	(1.007)	1763814	40.0000	43.2
72 Di-n-butylphthalate	149	6.977	6.977	(1.047)	2033050	40.0000	43.1
76 Fluoranthene	202	7.399	7.399	(1.111)	1503041	40.0000	39.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
79 Pyrene	202	7.533	7.533	(0.913)	1572789	40.0000	44.6
85 Butylbenzylphthalate	149	7.849	7.849	(0.951)	804545	40.0000	45.1
89 Benzo(a)anthracene	228	8.244	8.244	(0.999)	1210487	40.0000	42.8
92 Chrysene	228	8.271	8.271	(1.002)	1051221	40.0000	36.4
93 bis(2-Ethylhexyl)phthalate	149	8.170	8.170	(0.990)	1031006	40.0000	43.1
94 Di-n-octylphthalate	149	8.619	8.619	(0.910)	1491855	40.0000	46.6
95 Benzo(b)fluoranthene	252	9.084	9.084	(0.959)	760767	40.0000	38.5
96 Benzo(k)fluoranthene	252	9.111	9.111	(0.962)	923455	40.0000	43.3
97 Benzo(a)pyrene	252	9.410	9.410	(0.994)	690756	40.0000	40.7
99 Indeno(1,2,3-cd)pyrene	276	10.801	10.801	(1.141)	605869	40.0000	41.4
100 Dibenzo(a,h)anthracene	278	10.806	10.806	(1.141)	492971	40.0000	41.4
101 Benzo(ghi)perylene	276	11.213	11.213	(1.184)	476961	40.0000	39.7
126 m-Dinitrobenzene	168	5.468	5.468	(0.969)	206836	40.0000	40.0
130 2,3,4,6-Tetrachlorophenol	232	5.870	5.870	(1.040)	260369	40.0000	40.4
143 Dinoseb	211	6.629	6.629	(0.995)	219430	40.0000	39.4
173 Carbazole	167	6.800	6.800	(1.021)	1052758	40.0000	35.7
184 p-Benzoquinone	54	3.051	3.051	(0.860)	75954	40.0000	49.9
192 Methoxychlor	227	8.148	8.148	(0.987)	690968	40.0000	42.1
211 p-Toluidine	106	3.826	3.826	(1.078)	507510	40.0000	37.5
210 m-Toluidine	106	3.848	3.848	(1.084)	706775	40.0000	39.0
26 Phthalic anhydride	104	4.939	4.939	(1.121)	150592	40.0000	34.3
179 Dibenzo(a,e)pyrene	302	14.369	14.369	(1.517)	241141	40.0000	49.8
214 1,4-Dinitrobenzene	75	5.410	5.410	(0.958)	212618	40.0000	43.1
215 2-Ethoxyethanol	59	1.933	1.933	(0.545)	321672	40.0000	41.0
216 Methylenebis(2-chloroaniline)	231	8.196	8.196	(0.993)	88177	40.0000	23.5
M 225 Trichlorophenols	196				655346	80.0000	79.7
M 226 Tetrachlorophenols	232				260369	40.0000	40.4
M 227 Benzo(b,k)fluoranthene	252				1684222	80.0000	82.0

Data File: /chem/HSD3.i/s031510,b/s3c1510,d

Date : 15-MAR-2010 16:32

Client ID: MEGACVS

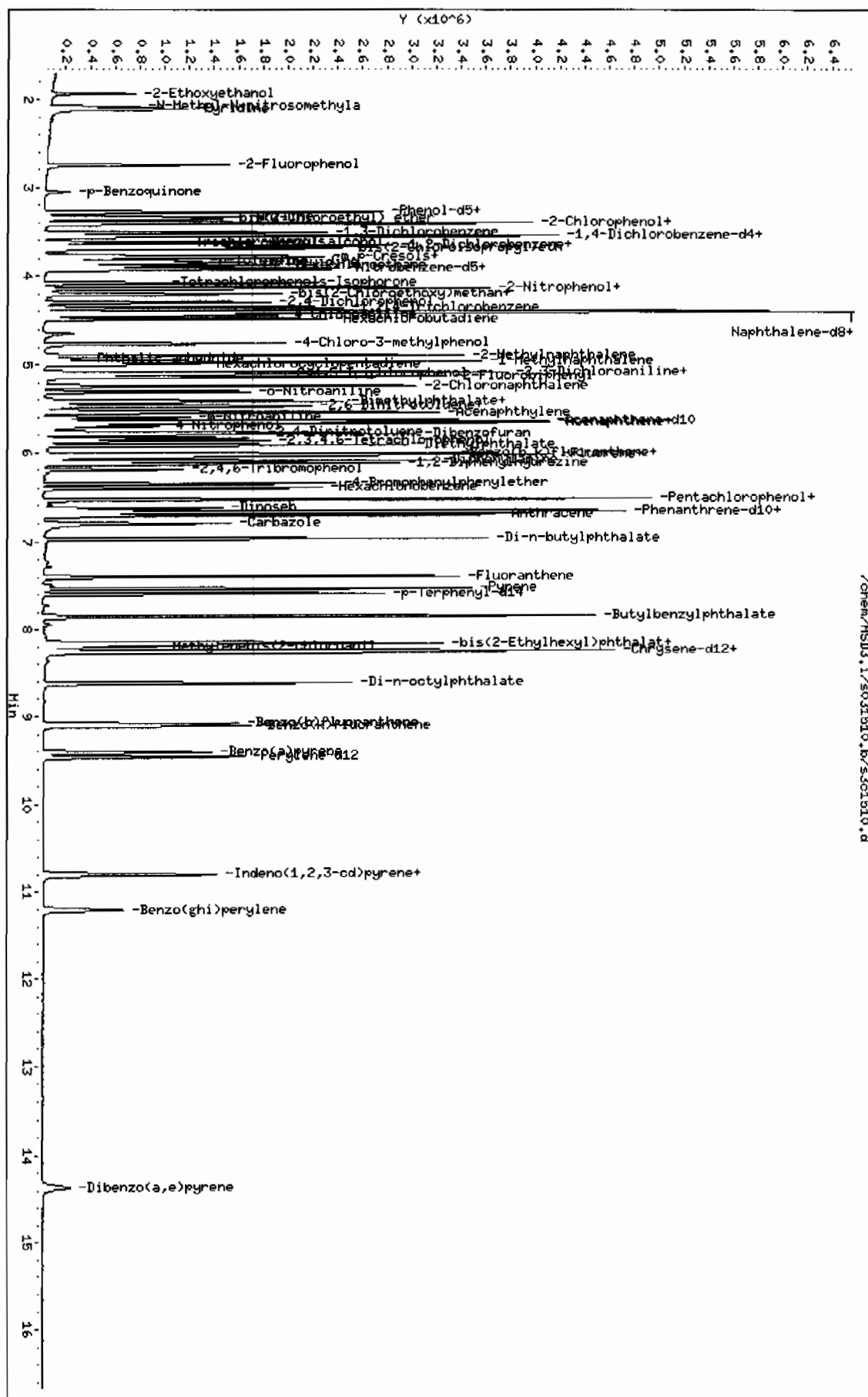
Sample Info: 14BEN100309-05, 2140PPH11SYM121MEGACVS

Column phase: J&W DB-5MS

Instrument: MSD3.1

Operator: nag1

Column diameter: 0.20



QC Data

Data File: /chem/MSD3.i/s030910a.b/s3c0917.d

Page 1

Date : 09-MAR-2010 15:53

Client ID: DFTPP

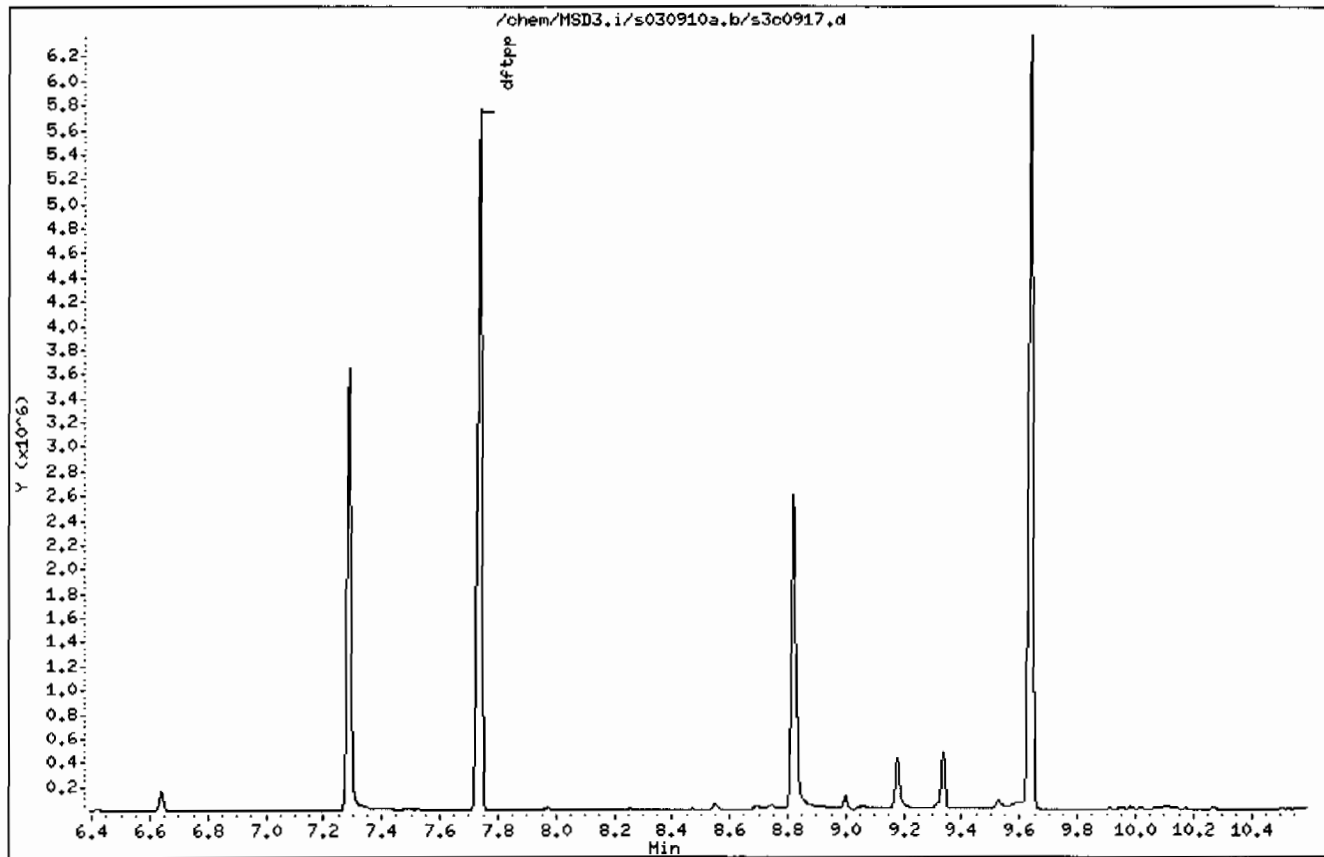
Instrument: MSD3.i

Sample Info: IWBNI00306-01,2IDFTPP11ISVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20



Date : 09-MAR-2010 15:53

Client ID: DFTPP

Instrument: HSD3.i

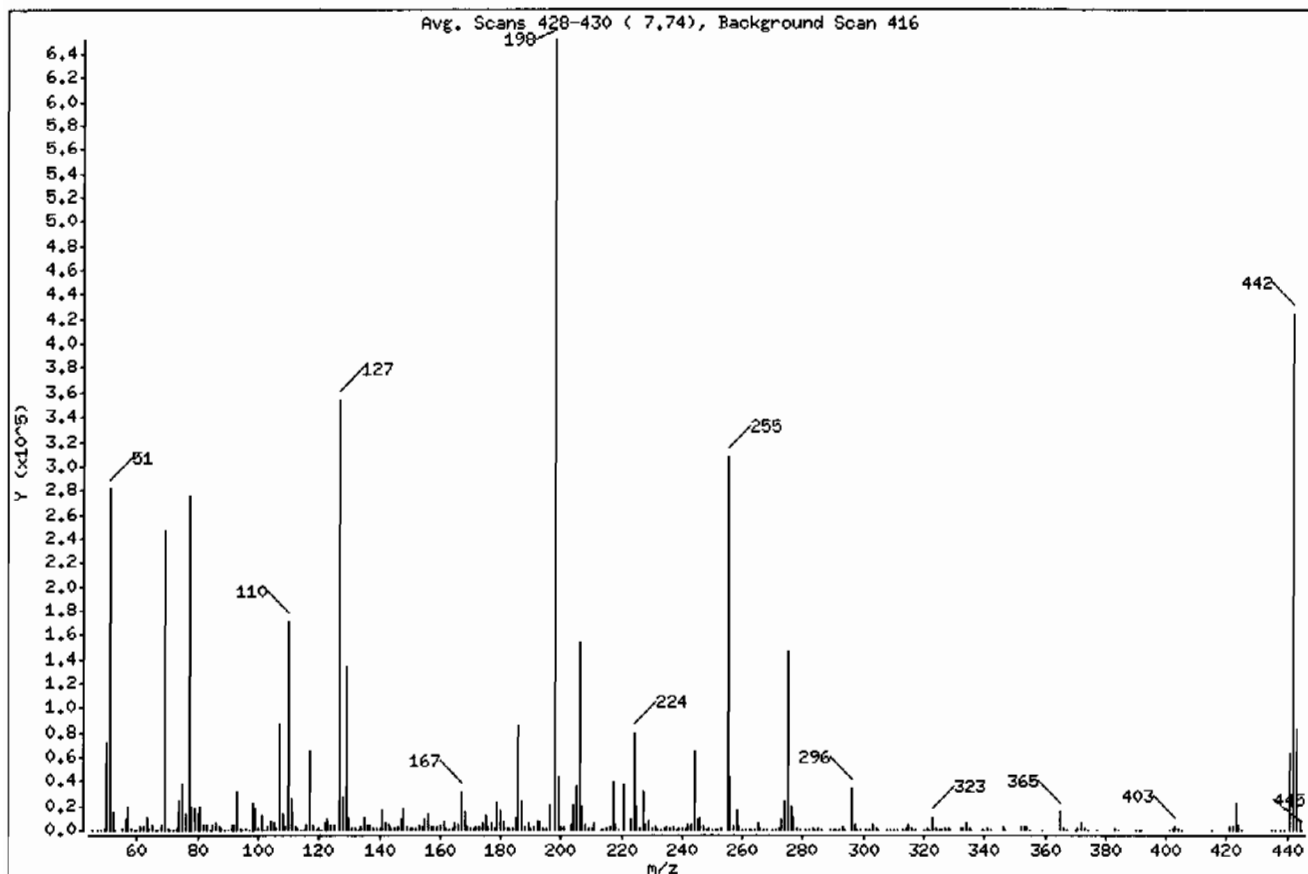
Sample Info: IWBNI00306-01.2\DFTPP\1\SMI1\DFTPP\

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.32
68	Less than 2.00% of mass 69	0.67 (1.75)
69	Mass 69 relative abundance	37.97
70	Less than 2.00% of mass 69	0.19 (0.51)
127	40.00 - 60.00% of mass 198	54.22
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	22.28
365	Greater than 1.00% of mass 198	2.22
441	Present, but less than mass 443	9.72
442	Greater than 40.00% of mass 198	65.03
443	17.00 - 23.00% of mass 442	12.63 (19.42)

Date : 09-MAR-2010 15:53

Client ID: DFTPP

Instrument: MSD3.i

Sample Info: IWBNI00306-01,2IDFTPP11|SVMI1|DFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c0917.d

Spectrum: Avg, Scans 428-430 (7.74), Background Scan 416

Location of Maximum: 198.00

Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	359	127.00	353472	208.00	4793	296.00	34424
47.00	96	128.00	26928	209.00	1524	297.00	4753
48.00	183	129.00	133376	210.00	861	298.00	350
49.00	1886	130.00	11096	211.00	5966	299.00	33
50.00	71616	131.00	2198	213.00	415	301.00	421
51.00	282432	132.00	1308	214.00	143	302.00	748
52.00	14433	133.00	475	215.00	1606	303.00	4121
53.00	541	134.00	3622	216.00	3232	304.00	1089
55.00	1264	135.00	10921	217.00	38912	305.00	78
56.00	8408	136.00	4267	218.00	5015	308.00	611
57.00	19416	137.00	4899	219.00	489	309.00	368
58.00	800	138.00	1238	221.00	37880	310.00	417
59.00	256	139.00	765	223.00	8800	311.00	68
60.00	216	140.00	1751	224.00	79904	313.00	327
61.00	3353	141.00	16345	225.00	20160	314.00	1619
62.00	3458	142.00	5403	226.00	2227	315.00	3803
63.00	10114	143.00	3903	227.00	31344	316.00	2187
64.00	1287	144.00	1082	228.00	4467	317.00	324
65.00	5015	145.00	898	229.00	7126	320.00	138
66.00	449	146.00	2832	230.00	1052	321.00	1110
67.00	207	147.00	8323	231.00	3029	322.00	364
68.00	4339	148.00	18184	232.00	493	323.00	10698
69.00	247552	149.00	3742	233.00	553	324.00	1959
70.00	1255	150.00	1176	234.00	1880	325.00	230
71.00	182	151.00	2136	235.00	2343	326.00	218
72.00	111	152.00	1318	236.00	1485	327.00	1970
73.00	1737	153.00	5219	237.00	2485	328.00	974
74.00	23352	154.00	3644	238.00	305	329.00	223
75.00	36976	155.00	8855	239.00	1147	332.00	808
76.00	13158	156.00	13622	240.00	1046	333.00	1102
77.00	275200	157.00	3007	241.00	1885	334.00	6588
78.00	18912	158.00	2869	242.00	4065	335.00	1838
79.00	17328	159.00	2284	243.00	4691	336.00	205
80.00	13364	160.00	4864	244.00	64104	339.00	153
81.00	19032	161.00	7471	245.00	8717	340.00	174

Date : 09-MAR-2010 15:53

Client ID: DFTPP

Instrument: MSD3.i

Sample Info: IWBH100306-01,2|DFTPP|1|SVMI1|DFTPP|

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c0917.d

Spectrum: Avg. Scans 428-430 (7.74), Background Scan 416

Location of Maximum: 198.00

Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y

| 82.00	4868	| 162.00	2127	| 246.00	11101	| 341.00	1174
| 83.00	4520	| 163.00	644	| 247.00	2350	| 342.00	363
| 84.00	318	| 164.00	1049	| 248.00	521	| 346.00	2346
| 85.00	4817	| 165.00	5634	| 249.00	2148	| 347.00	496
| 86.00	5544	| 166.00	4655	| 250.00	493	| 352.00	3214

| 87.00	2652	| 167.00	31072	| 251.00	481	| 353.00	2300
| 88.00	808	| 168.00	14416	| 252.00	621	| 354.00	3253
| 89.00	441	| 169.00	2690	| 253.00	1408	| 355.00	622
| 90.00	48	| 170.00	966	| 255.00	307584	| 359.00	222
| 91.00	4340	| 171.00	1231	| 256.00	44152	| 365.00	14479

| 92.00	4802	| 172.00	2682	| 257.00	3466	| 366.00	2191
| 93.00	30832	| 173.00	3666	| 258.00	16233	| 367.00	121
| 94.00	2184	| 174.00	6489	| 259.00	2697	| 370.00	283
| 95.00	389	| 175.00	12013	| 260.00	471	| 371.00	821
| 96.00	1448	| 176.00	3658	| 261.00	529	| 372.00	5913

| 97.00	403	| 177.00	5607	| 262.00	35	| 373.00	1464
| 98.00	22984	| 178.00	2104	| 263.00	157	| 374.00	176
| 99.00	18280	| 179.00	22496	| 264.00	407	| 377.00	120
| 100.00	1668	| 180.00	16070	| 265.00	6503	| 383.00	1436
| 101.00	11813	| 181.00	7726	| 266.00	909	| 384.00	451

| 102.00	602	| 182.00	1214	| 267.00	119	| 390.00	698
| 103.00	3738	| 183.00	843	| 268.00	251	| 391.00	551
| 104.00	7347	| 184.00	1860	| 270.00	320	| 392.00	406
| 105.00	6579	| 185.00	10740	| 271.00	537	| 401.00	292
| 106.00	2181	| 186.00	85576	| 272.00	991	| 402.00	2210

| 107.00	86952	| 187.00	24128	| 273.00	9726	| 403.00	3375
| 108.00	14230	| 188.00	2522	| 274.00	24280	| 404.00	1138
| 109.00	2864	| 189.00	5401	| 275.00	145216	| 405.00	127
| 110.00	171136	| 190.00	828	| 276.00	19048	| 415.00	123
| 111.00	25344	| 191.00	2414	| 277.00	10791	| 421.00	2928

| 112.00	3236	| 192.00	7120	| 278.00	1748	| 422.00	2841
| 113.00	996	| 193.00	7559	| 279.00	395	| 423.00	21936
| 114.00	273	| 194.00	1573	| 281.00	106	| 424.00	4481
| 115.00	393	| 195.00	1136	| 282.00	274	| 425.00	411
| 116.00	4989	| 196.00	21376	| 283.00	1203	| 435.00	76

Date : 09-MAR-2010 15:53

Client ID: DFTPP

Instrument: HSD3.i

Sample Info: IWBNI00306-01,2IDFTPP11SVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c0917.d
Spectrum: Avg. Scans 428-430 (7.74), Background Scan 416
Location of Maximum: 198.00
Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	64656	198.00	652032	284.00	743	436.00	211
118.00	5179	199.00	43664	285.00	1880	438.00	488
119.00	690	200.00	3483	286.00	366	439.00	444
120.00	1188	201.00	3339	289.00	429	441.00	63368
121.00	326	203.00	4229	290.00	409	442.00	424000
122.00	5960	204.00	21040	291.00	222	443.00	82344
123.00	9367	205.00	35880	292.00	561	444.00	7331
124.00	4286	206.00	152640	293.00	2578	445.00	363
125.00	4023	207.00	20000	294.00	625		

Data File: /chem/MSD3.i/s030910a,b/s3c0928.d

Page 1

Date : 09-MAR-2010 20:38

Client ID: DFTPP

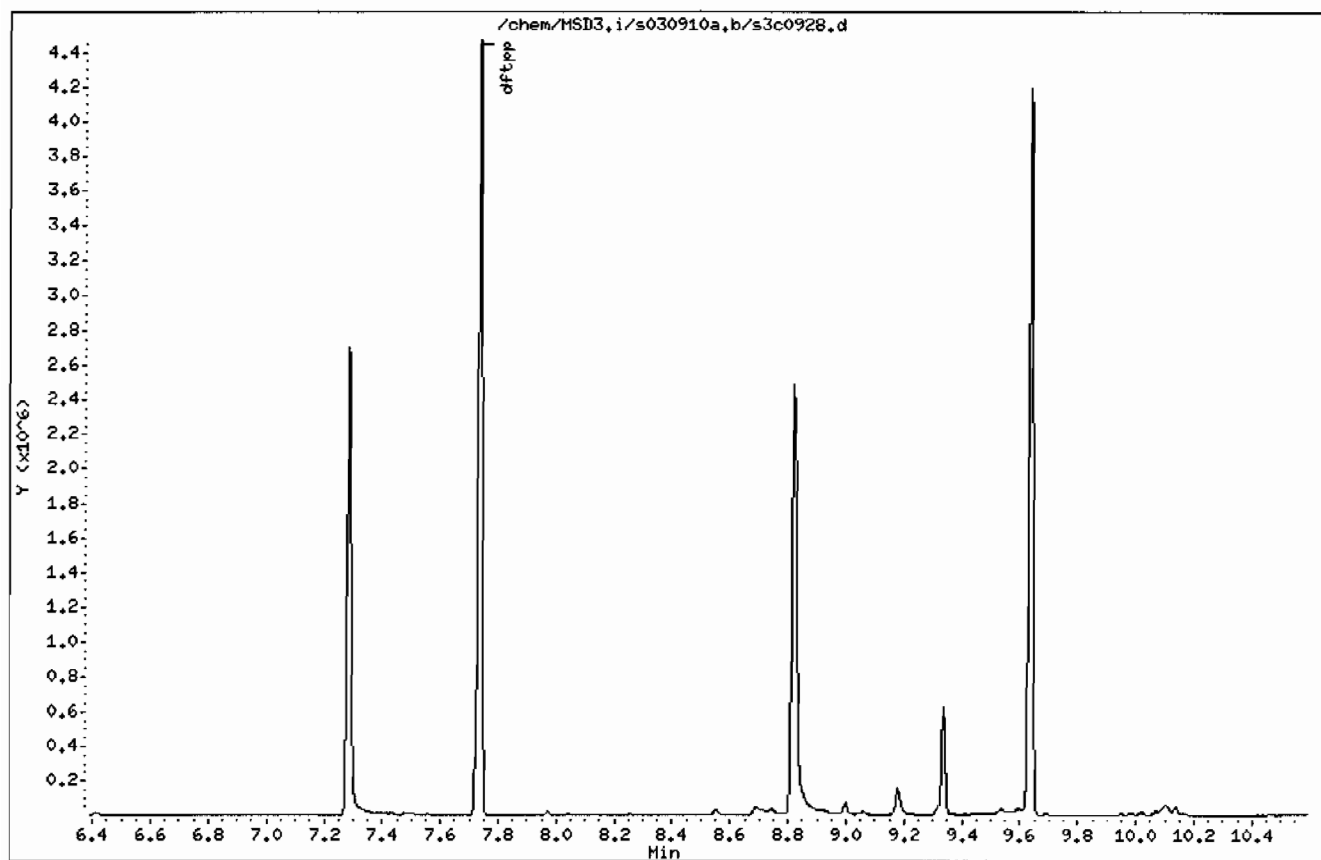
Instrument: MSD3.i

Sample Info: INBN100306-01,2|DFTPP|1|SVH1|1DFTPP|

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20



Date : 09-MAR-2010 20:38

Client ID: DFTPP

Instrument: MSD3.i

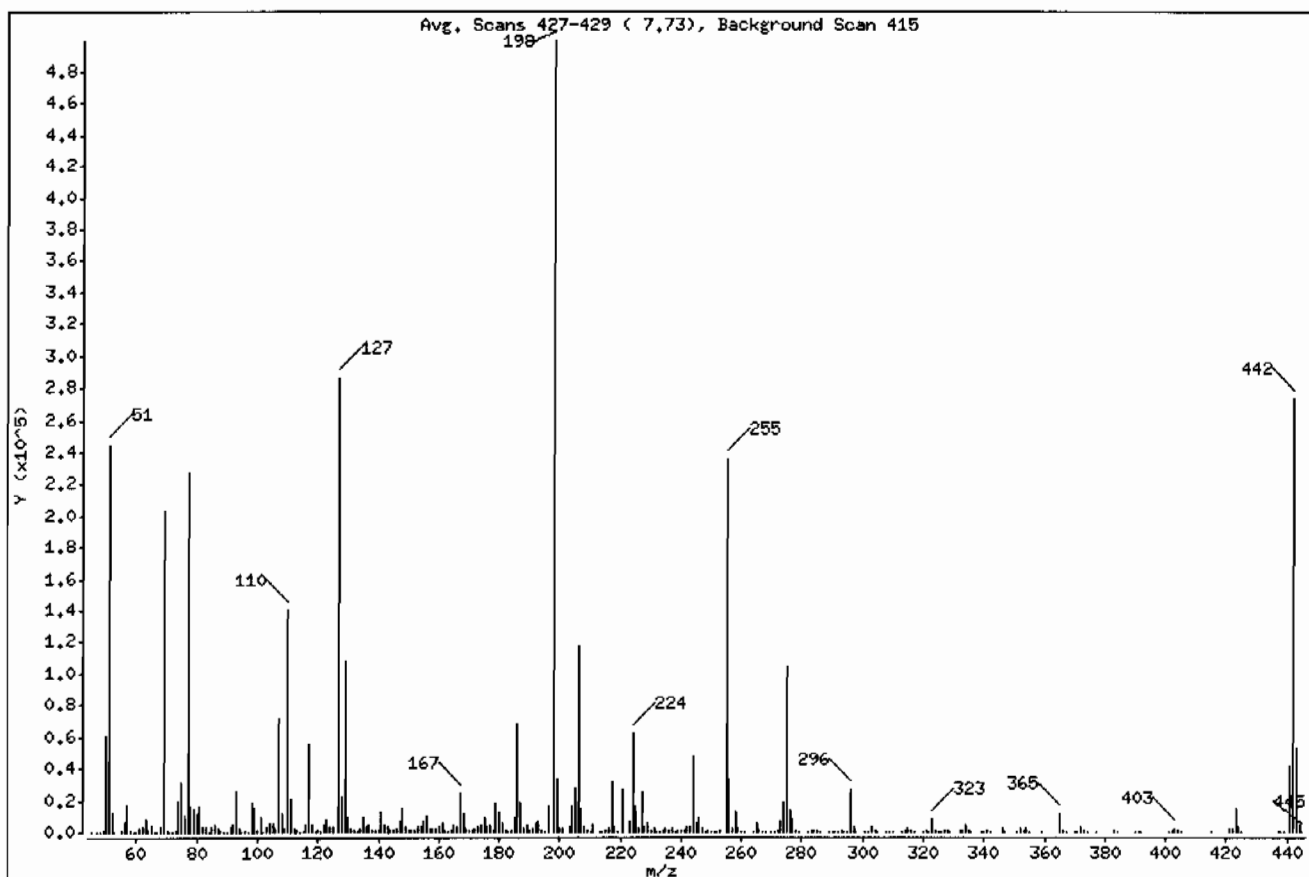
Sample Info: 1WBN100306-01,21DFTPP11SVMI11DFTPP1

Operator: JLD1

Column phase: J&W DB-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	48.92
68	Less than 2.00% of mass 69	0.69 (1.69)
69	Mass 69 relative abundance	40.77
70	Less than 2.00% of mass 69	0.22 (0.53)
127	40.00 - 60.00% of mass 198	57.34
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 30.00% of mass 198	21.00
365	Greater than 1.00% of mass 198	2.19
441	Present, but less than mass 443	8.27
442	Greater than 40.00% of mass 198	54.81
443	17.00 - 23.00% of mass 442	10.62 (19.39)

Date : 09-MAR-2010 20:38

Client ID: DFTPP

Instrument: HSD3,i

Sample Info: IWBNI00306-01,2IDFTPP11SVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c0928.d

Spectrum: Avg. Scans 427-429 (7,73), Background Scan 415

Location of Maximum: 198.00

Number of points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y

45.00	155	125.00	3401	206.00	117584	295.00	213
47.00	48	127.00	286400	207.00	15191	296.00	25920
48.00	152	128.00	21416	208.00	3874	297.00	3668
49.00	1480	129.00	108032	209.00	1169	298.00	240
50.00	61400	130.00	9039	210.00	533	301.00	343

51.00	244352	131.00	1785	211.00	4691	302.00	528
52.00	12388	132.00	944	213.00	344	303.00	3136
53.00	465	133.00	415	214.00	134	304.00	806
55.00	1156	134.00	2724	215.00	1247	305.00	125
56.00	7022	135.00	8698	216.00	2451	308.00	395

57.00	16664	136.00	3540	217.00	30560	309.00	215
58.00	742	137.00	4335	218.00	3813	310.00	399
59.00	199	138.00	1023	219.00	387	313.00	259
60.00	172	139.00	600	221.00	26504	314.00	1370
61.00	2856	140.00	1368	223.00	6911	315.00	2844

62.00	3272	141.00	12670	224.00	61816	316.00	1525
63.00	8458	142.00	4463	225.00	16099	317.00	284
64.00	1129	143.00	2946	226.00	1806	320.00	34
65.00	4338	144.00	791	227.00	24888	321.00	705
66.00	307	145.00	809	228.00	3415	322.00	377

67.00	248	146.00	2448	229.00	5643	323.00	7858
68.00	3435	147.00	6711	230.00	822	324.00	1455
69.00	203648	148.00	14672	231.00	2474	325.00	140
70.00	1078	149.00	3054	232.00	380	326.00	59
71.00	134	150.00	932	233.00	517	327.00	1484

72.00	70	151.00	1531	234.00	1537	328.00	752
73.00	1473	152.00	1181	235.00	1772	329.00	95
74.00	19288	153.00	3901	236.00	1283	332.00	663
75.00	31272	154.00	3111	237.00	1984	333.00	746
76.00	10654	155.00	7051	238.00	261	334.00	5043

77.00	227712	156.00	10430	239.00	923	335.00	1203
78.00	15576	157.00	2236	240.00	779	336.00	170
79.00	14892	158.00	2379	241.00	1353	339.00	72
80.00	11116	159.00	1817	242.00	3105	340.00	100
81.00	16187	160.00	4004	243.00	3544	341.00	836

Date : 09-MAR-2010 20:38

Client ID: DFTPP

Instrument: HSD3,i

Sample Info: IWBNI00306-01,2IDFTPP11SVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c0928.d

Spectrum: Avg, Scans 427-429 (7.73), Background Scan 415

Location of Maximum: 198.00

Number of points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	3846	161.00	5916	244.00	47184	342.00	216
83.00	3700	162.00	1672	245.00	6065	346.00	1815
84.00	340	163.00	451	246.00	9058	347.00	266
85.00	3932	164.00	707	247.00	1835	351.00	86
86.00	4491	165.00	4748	248.00	384	352.00	2339
87.00	2097	166.00	3636	249.00	1684	353.00	1627
88.00	941	167.00	24320	250.00	356	354.00	2254
89.00	400	168.00	11518	251.00	443	355.00	382
90.00	36	169.00	2076	252.00	415	359.00	143
91.00	3586	170.00	750	253.00	1049	365.00	10951
92.00	4231	171.00	976	255.00	235072	366.00	1583
93.00	25136	172.00	2246	256.00	33368	367.00	74
94.00	1891	173.00	2934	257.00	2575	370.00	243
95.00	464	174.00	5018	258.00	12655	371.00	573
96.00	1224	175.00	9393	259.00	2057	372.00	3901
97.00	330	176.00	3022	260.00	392	373.00	1097
98.00	18904	177.00	4221	261.00	480	374.00	78
99.00	15383	178.00	1294	264.00	487	377.00	71
100.00	1291	179.00	18696	265.00	5288	383.00	1024
101.00	9376	180.00	12495	266.00	777	384.00	246
102.00	540	181.00	6123	267.00	34	390.00	525
103.00	3232	182.00	851	268.00	25	391.00	377
104.00	5979	183.00	573	270.00	357	392.00	233
105.00	5694	184.00	1378	271.00	463	401.00	215
106.00	1888	185.00	8622	272.00	696	402.00	1641
107.00	71256	186.00	67872	273.00	7114	403.00	2238
108.00	11853	187.00	18648	274.00	18408	404.00	835
109.00	2215	188.00	2099	275.00	104896	405.00	37
110.00	139840	189.00	4279	276.00	14012	415.00	74
111.00	20520	190.00	710	277.00	8318	421.00	1960
112.00	2626	191.00	1846	278.00	1367	422.00	2030
113.00	932	192.00	5567	279.00	319	423.00	14562
114.00	151	193.00	6317	282.00	185	424.00	3080
115.00	257	194.00	1303	283.00	951	425.00	324
116.00	4114	195.00	462	284.00	648	437.00	313

Date : 09-MAR-2010 20:38

Client ID: DFTPP

Instrument: MSD3.i

Sample Info: IWBH100306-01,2IDFTPP11ISVM11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0,20

Data File: s3c0928.d

Spectrum: Avg. Scans 427-429 (7,73), Background Scan 415

Location of Maximum: 198,00

Number of points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117,00	54976	196,00	16050	285,00	1406	438,00	54
118,00	4164	198,00	499520	286,00	221	439,00	307
119,00	493	199,00	33848	289,00	345	441,00	41328
120,00	984	200,00	2448	290,00	253	442,00	273728
121,00	303	201,00	2418	291,00	133	443,00	53072
122,00	4922	203,00	3125	292,00	396	444,00	4803
123,00	8144	204,00	16584	293,00	1709	445,00	220
124,00	3453	205,00	27664	294,00	461		

Data File: /chem/MSD3.i/s031310.b/s3c1301.d

Page 1

Date : 13-MAR-2010 10:37

Client ID: DFTPP

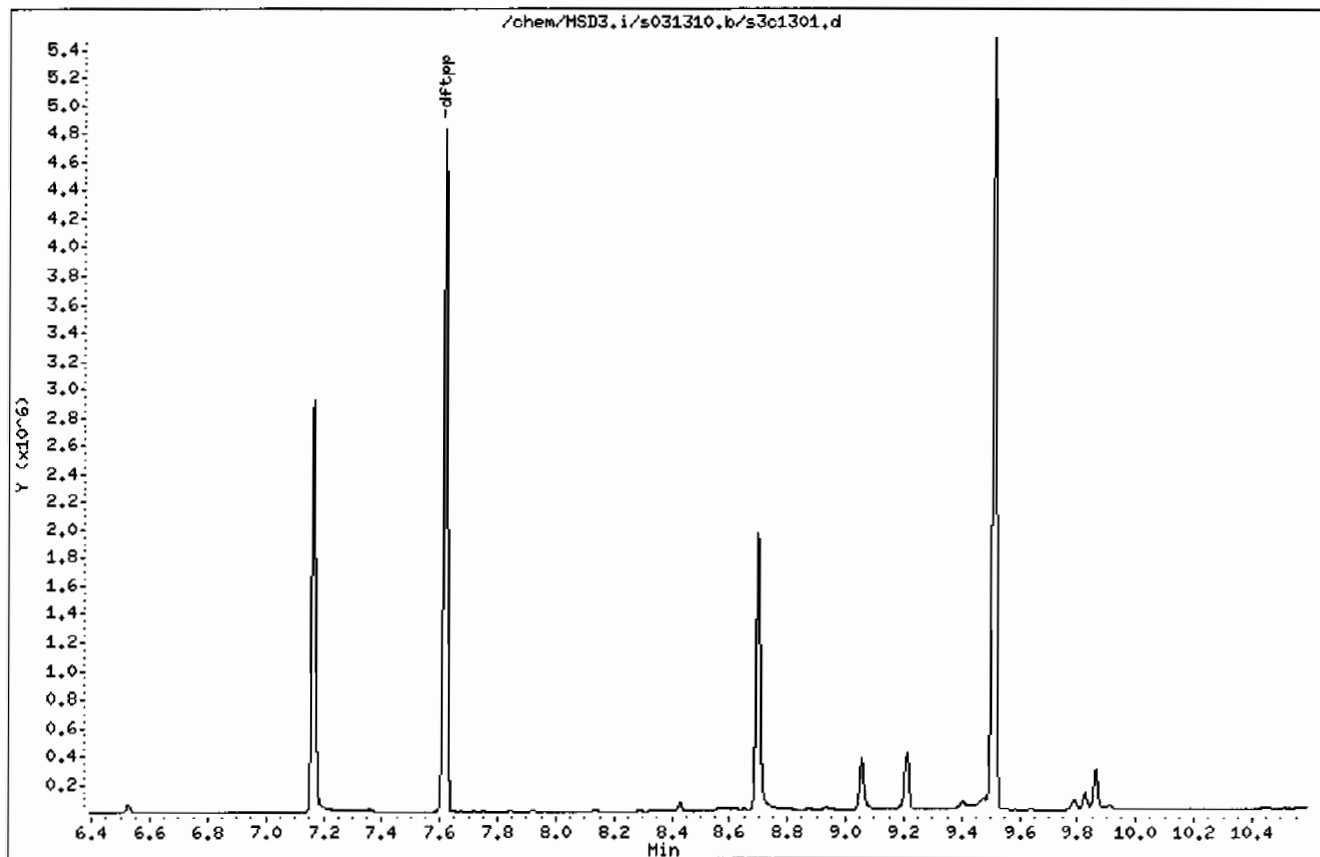
Instrument: MSD3.i

Sample Info: IWBNI00306-01.2\IDFTPP\1\SVMI1\IDFTPP\

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20



Date : 13-MAR-2010 10:37

Client ID: DFTPP

Instrument: MSD3.i

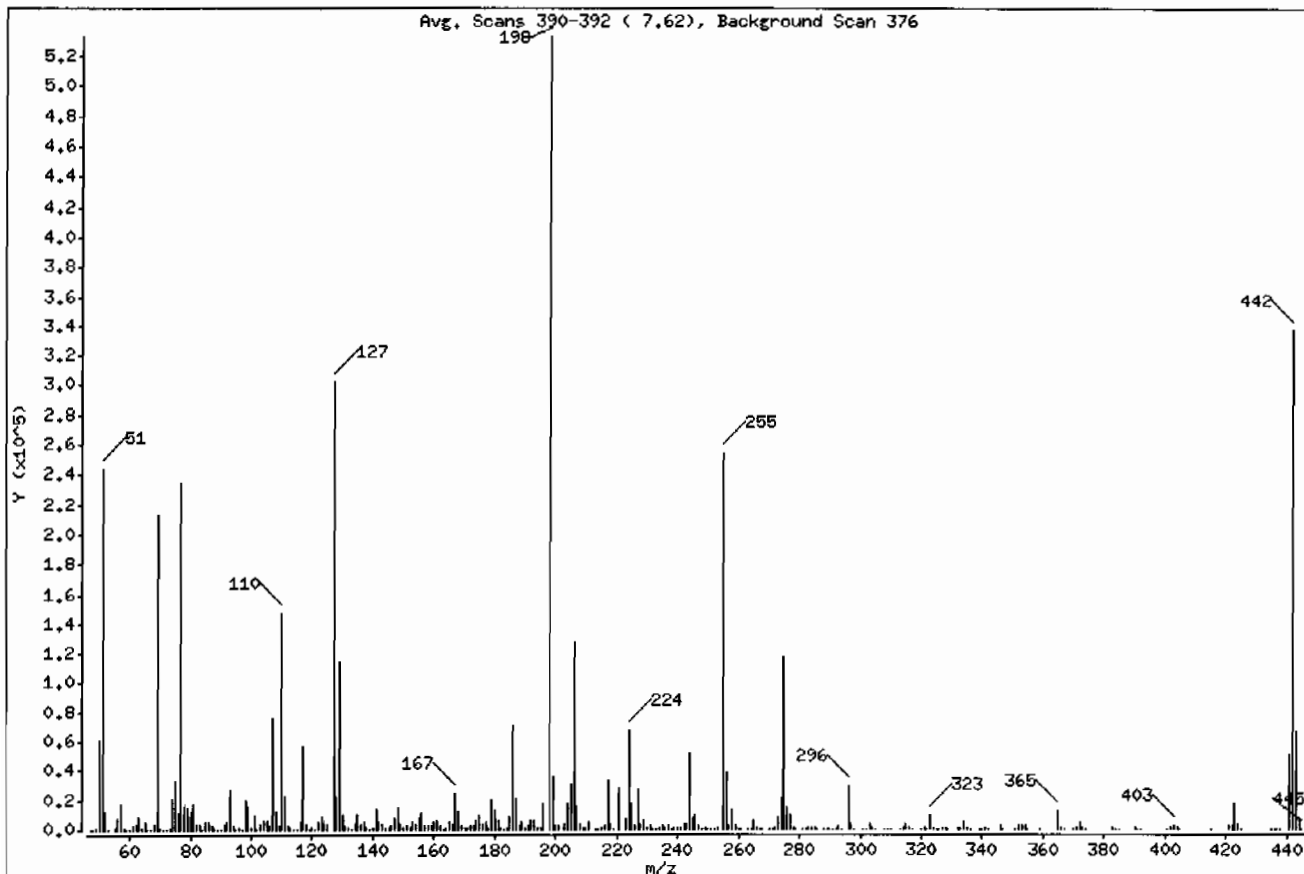
Sample Info: IWBNI00306-01.2\DFTPP\1\SVH11\DFTPP\

Operator: JLD1

Column phase: J&W DB-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	45.77
68	Less than 2.00% of mass 69	0.67 (1.68)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.22 (0.54)
127	40.00 - 60.00% of mass 198	56.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	22.12
365	Greater than 1.00% of mass 198	2.26
441	Present, but less than mass 443	9.47
442	Greater than 40.00% of mass 198	63.05
443	17.00 - 23.00% of mass 442	12.41 (19.67)

Date : 13-MAR-2010 10:37

Client ID: DFTPP

Instrument: MSD3.i

Sample Info: IWBNI00306-01.2IDFTPP11SVMI1IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1301.d
 Spectrum: Avg. Scans 390-392 (7.62), Background Scan 376
 Location of Maximum: 198.00
 Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
47.00	31	128.00	22512	209.00	1316	297.00	3952
48.00	171	129.00	114280	210.00	720	298.00	239
49.00	1431	130.00	9426	211.00	5049	301.00	385
50.00	61720	131.00	1880	213.00	390	302.00	581
51.00	244224	132.00	977	214.00	132	303.00	3296
52.00	12313	133.00	442	215.00	1271	304.00	928
53.00	502	134.00	3272	216.00	2761	305.00	68
55.00	1060	135.00	9348	217.00	32888	308.00	441
56.00	7478	136.00	3853	218.00	4224	309.00	293
57.00	16856	137.00	4324	219.00	393	310.00	358
58.00	699	138.00	992	221.00	28560	313.00	229
59.00	261	139.00	597	223.00	7491	314.00	1439
60.00	128	140.00	1415	224.00	67208	315.00	3296
61.00	2953	141.00	13761	225.00	16952	316.00	1732
62.00	3397	142.00	4695	226.00	1869	317.00	212
63.00	8915	143.00	3276	227.00	26688	320.00	75
64.00	1276	144.00	792	228.00	3693	321.00	953
65.00	4400	145.00	782	229.00	5735	322.00	560
66.00	293	146.00	2549	230.00	791	323.00	9205
67.00	316	147.00	7221	231.00	2625	324.00	1525
68.00	3583	148.00	14524	232.00	470	325.00	171
69.00	213696	149.00	3174	233.00	569	326.00	197
70.00	1155	150.00	929	234.00	1719	327.00	1729
71.00	267	151.00	1929	235.00	2030	328.00	893
72.00	72	152.00	1225	236.00	1239	329.00	178
73.00	1499	153.00	4562	237.00	2100	332.00	655
74.00	20768	154.00	3222	238.00	278	333.00	1045
75.00	32632	155.00	7745	239.00	1177	334.00	5427
76.00	10818	156.00	11376	240.00	736	335.00	1506
77.00	234560	157.00	2294	241.00	1631	336.00	172
78.00	15986	158.00	2386	242.00	3458	339.00	122
79.00	15120	159.00	2134	243.00	3731	340.00	115
80.00	11793	160.00	4299	244.00	51648	341.00	1141
81.00	17080	161.00	6434	245.00	6908	342.00	342
82.00	4265	162.00	1880	246.00	9513	346.00	2076

Date : 13-MAR-2010 10:37

Client ID: DFTPP

Instrument: MSD3.i

Sample Info: INBN100306-01.2IDFTPP11SVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1301.d

Spectrum: Avg. Scans 390-392 (7.62), Background Scan 376

Location of Maximum: 198.00

Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y

| 83.00	4009	| 163.00	538	| 247.00	2021	| 347.00	312
| 84.00	404	| 164.00	748	| 248.00	455	| 351.00	180
| 85.00	4366	| 165.00	4832	| 249.00	1783	| 352.00	2628
| 86.00	4936	| 166.00	4036	| 250.00	343	| 353.00	1907
| 87.00	2257	| 167.00	25088	| 251.00	450	| 354.00	3006

| 88.00	834	| 168.00	12125	| 252.00	531	| 355.00	524
| 89.00	425	| 169.00	2208	| 253.00	1186	| 359.00	211
| 90.00	97	| 170.00	896	| 255.00	253440	| 365.00	12087
| 91.00	3848	| 171.00	1177	| 256.00	37512	| 366.00	1657
| 92.00	4307	| 172.00	2382	| 257.00	2962	| 367.00	76

| 93.00	27136	| 173.00	2994	| 258.00	14020	| 370.00	201
| 94.00	1872	| 174.00	5584	| 259.00	2267	| 371.00	688
| 95.00	393	| 175.00	10157	| 260.00	426	| 372.00	4599
| 96.00	1327	| 176.00	3200	| 261.00	407	| 373.00	1194
| 97.00	435	| 177.00	4775	| 263.00	82	| 374.00	155

| 98.00	19928	| 178.00	1668	| 264.00	436	| 383.00	1291
| 99.00	15831	| 179.00	19784	| 265.00	5529	| 384.00	298
| 100.00	1536	| 180.00	13330	| 266.00	931	| 385.00	67
| 101.00	10180	| 181.00	6112	| 267.00	148	| 390.00	769
| 102.00	532	| 182.00	996	| 268.00	126	| 391.00	508

| 103.00	3378	| 183.00	573	| 270.00	360	| 392.00	328
| 104.00	6334	| 184.00	1457	| 271.00	467	| 401.00	268
| 105.00	6016	| 185.00	8875	| 272.00	788	| 402.00	1759
| 106.00	2172	| 186.00	71600	| 273.00	8123	| 403.00	2650
| 107.00	75992	| 187.00	20400	| 274.00	20472	| 404.00	925

| 108.00	12251	| 188.00	1994	| 275.00	118048	| 405.00	36
| 109.00	2264	| 189.00	4334	| 276.00	15275	| 415.00	118
| 110.00	146624	| 190.00	710	| 277.00	9604	| 421.00	2247
| 111.00	22088	| 191.00	1956	| 278.00	1485	| 422.00	2217
| 112.00	2544	| 192.00	6031	| 279.00	340	| 423.00	17280

| 113.00	819	| 193.00	6676	| 281.00	123	| 424.00	3421
| 114.00	229	| 194.00	1466	| 282.00	255	| 425.00	236
| 115.00	418	| 195.00	805	| 283.00	1038	| 435.00	71
| 116.00	4349	| 196.00	17392	| 284.00	725	| 436.00	215
| 117.00	56728	| 198.00	533632	| 285.00	1609	| 437.00	272

Date : 13-MAR-2010 10:37

Client ID: DFTPP

Instrument: HSD3,i

Sample Info: IWBNI00306-01.2\DFTPP\1\SVMI\1\DFTPP\

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1301.d

Spectrum: Avg. Scans 390-392 (7.62), Background Scan 376

Location of Maximum: 198.00

Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	4283	199.00	35832	286.00	259	438.00	352
119.00	583	200.00	2848	288.00	39	441.00	50528
120.00	1019	201.00	2696	289.00	325	442.00	336448
121.00	329	203.00	3411	290.00	344	443.00	66200
122.00	5308	204.00	17664	291.00	170	444.00	5874
123.00	8205	205.00	30616	292.00	391	445.00	324
124.00	3712	206.00	128040	293.00	1952		
125.00	3650	207.00	16512	294.00	511		
127.00	301888	208.00	3892	296.00	29208		

Data File: /chem/MSD3.i/s031510.b/s3c1507.d

Page 1

Date : 15-MAR-2010 15:17

Client ID: DFTPP

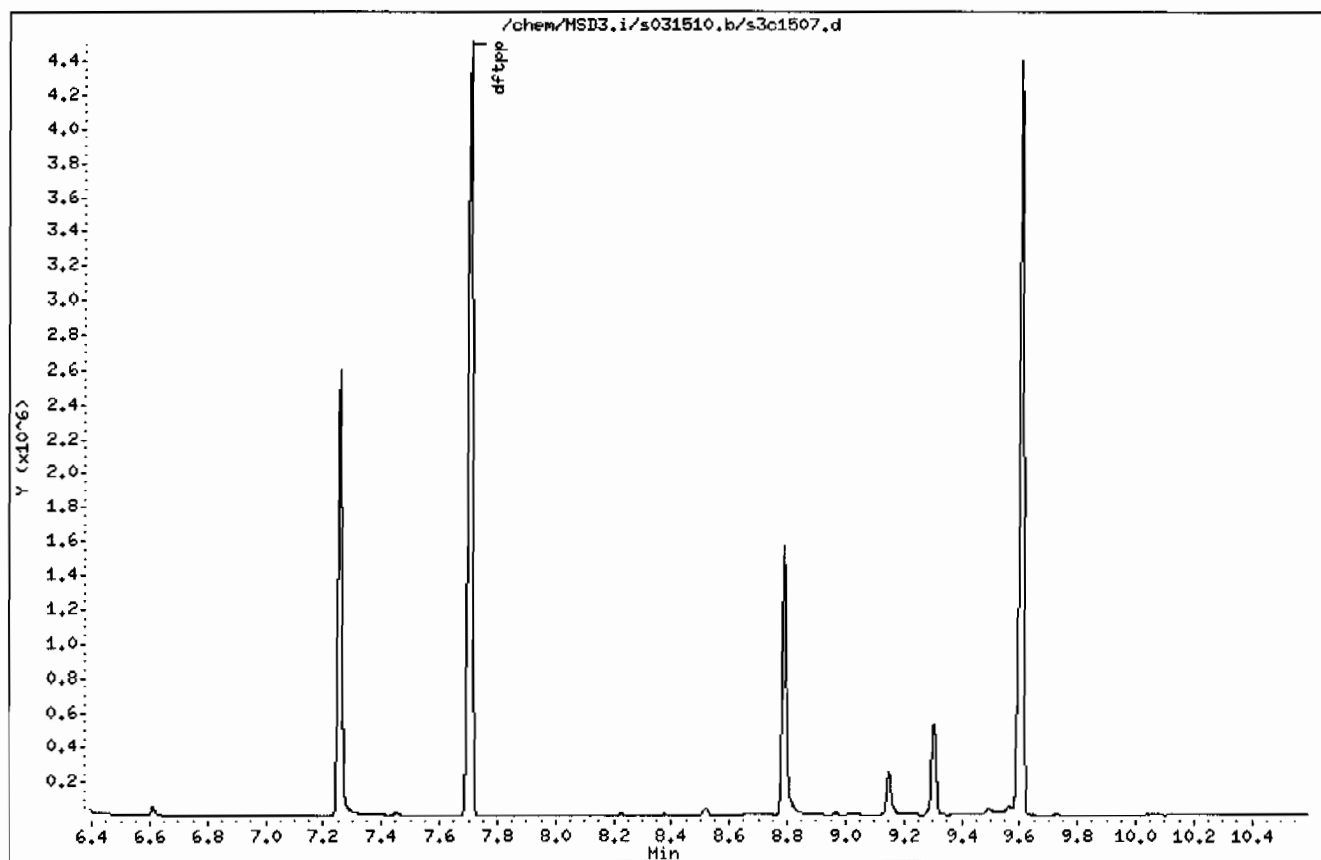
Instrument: MSD3.i

Sample Info: IWBNI00306-01.2IDFTPP11ISVMI1IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20



Date : 15-MAR-2010 15:17

Client ID: DFTPP

Instrument: MSD3.i

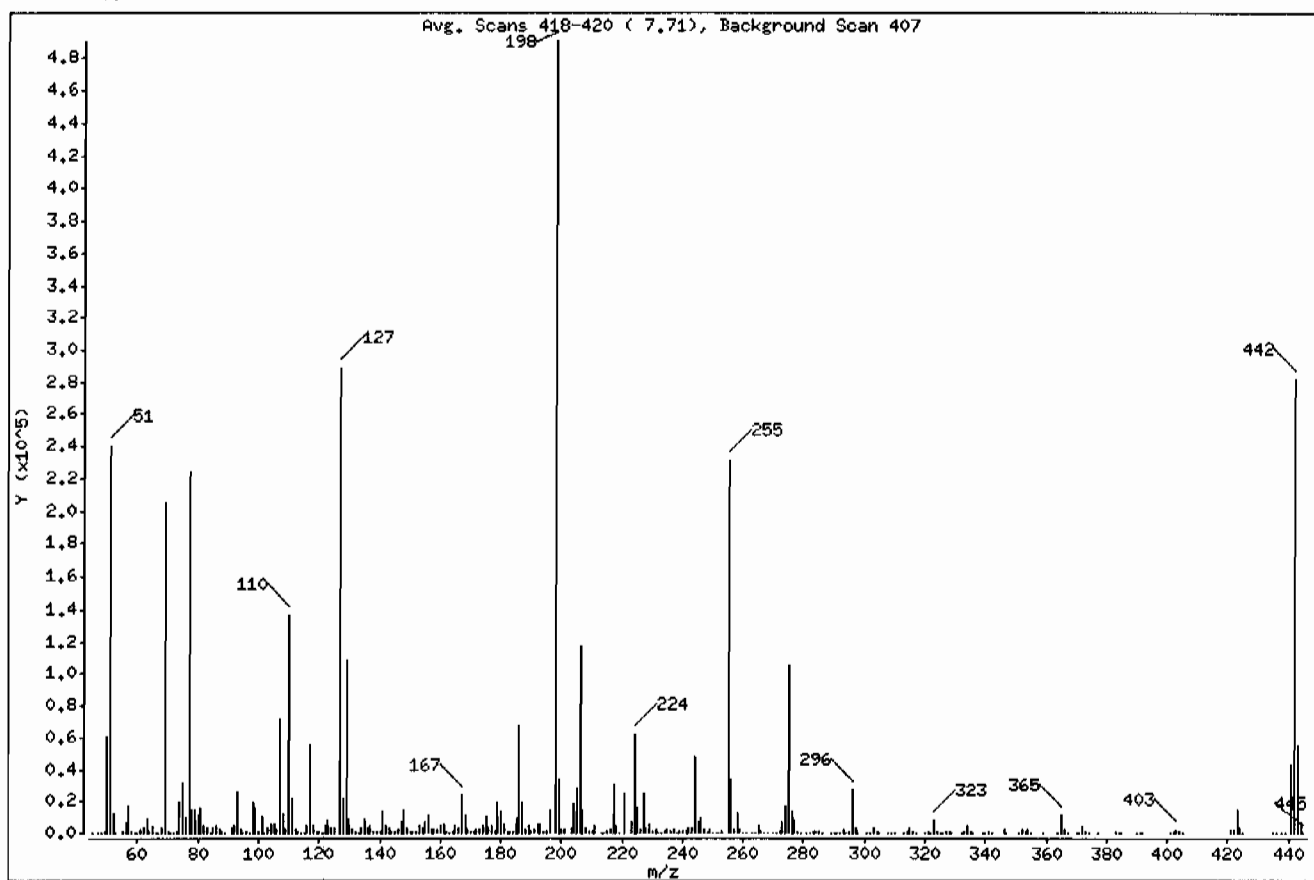
Sample Info: INBN100306-01.2IDFTPP11SVMI1IDFTPP1

Operator: JLD1

Column phase: J&W DB-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	49.05
68	Less than 2.00% of mass 69	0.70 (1.66)
69	Mass 69 relative abundance	41.84
70	Less than 2.00% of mass 69	0.22 (0.52)
127	40.00 - 60.00% of mass 198	58.84
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.90
275	10.00 - 30.00% of mass 198	21.38
365	Greater than 1.00% of mass 198	2.21
441	Present, but less than mass 443	8.79
442	Greater than 40.00% of mass 198	57.49
443	17.00 - 23.00% of mass 442	11.37 (19.77)

Date : 15-MAR-2010 15:17

Client ID: DFTPP

Instrument: HSD3.i

Sample Info: IWBH100306-01,2IDFTPP11SVH11IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1507.d

Spectrum: Avg. Scans 418-420 (7.71), Background Scan 407

Location of Maximum: 198.00

Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	314	128.00	21472	209.00	1250	297.00	3666
47.00	106	129.00	108368	210.00	1290	298.00	215
48.00	130	130.00	9413	211.00	4452	301.00	351
49.00	1378	131.00	1792	213.00	309	302.00	505
50.00	60424	132.00	1016	214.00	150	303.00	3149
51.00	240640	133.00	433	215.00	1288	304.00	868
52.00	12439	134.00	3058	216.00	2475	305.00	68
53.00	516	135.00	8838	217.00	30880	308.00	362
55.00	1140	136.00	3551	218.00	3986	309.00	246
56.00	7025	137.00	4274	219.00	373	310.00	306
57.00	16472	138.00	825	221.00	25272	313.00	248
58.00	726	139.00	589	223.00	6594	314.00	1159
59.00	199	140.00	1209	224.00	61536	315.00	3028
60.00	212	141.00	13386	225.00	15836	316.00	1482
61.00	2713	142.00	4618	226.00	1709	317.00	268
62.00	3075	143.00	2979	227.00	25376	320.00	79
63.00	8479	144.00	826	228.00	3542	321.00	862
64.00	1198	145.00	740	229.00	5576	322.00	425
65.00	4145	146.00	2433	230.00	788	323.00	7581
66.00	260	147.00	6647	231.00	2210	324.00	1501
67.00	306	148.00	14727	232.00	429	325.00	120
68.00	3412	149.00	2959	233.00	482	326.00	150
69.00	205248	150.00	898	234.00	1536	327.00	1471
70.00	1064	151.00	1639	235.00	1846	328.00	722
71.00	177	152.00	1118	236.00	1259	329.00	156
72.00	34	153.00	4173	237.00	2088	332.00	520
73.00	1517	154.00	3319	238.00	303	333.00	827
74.00	19416	155.00	7064	239.00	1005	334.00	5068
75.00	31136	156.00	11095	240.00	843	335.00	1242
76.00	10233	157.00	2127	241.00	1552	336.00	143
77.00	224000	158.00	2242	242.00	3355	339.00	169
78.00	15182	159.00	1763	243.00	3592	340.00	69
79.00	14155	160.00	4193	244.00	47040	341.00	900
80.00	11340	161.00	5993	245.00	6380	342.00	204
81.00	15673	162.00	1672	246.00	9102	346.00	1814

Date : 15-MAR-2010 15:17

Client ID: DFTPP

Instrument: HSD3.i

Sample Info: IWBNI00306-01,2IDFTPP11SVMI1IDFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1507.d

Spectrum: Avg. Scans 418-420 (7.71), Background Scan 407

Location of Maximum: 198.00

Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y

82.00	4192	163.00	485	247.00	1883	347.00	279
83.00	3919	164.00	724	248.00	428	351.00	110
84.00	344	165.00	4680	249.00	1745	352.00	2358
85.00	3461	166.00	3641	250.00	376	353.00	1566
86.00	4177	167.00	23808	251.00	349	354.00	2449

87.00	2276	168.00	11592	252.00	435	355.00	433
88.00	789	169.00	2132	253.00	1121	359.00	192
89.00	351	170.00	805	255.00	231744	364.00	49
91.00	3381	171.00	1052	256.00	34304	365.00	10859
92.00	4194	172.00	2157	257.00	2733	366.00	1744

93.00	25840	173.00	2782	258.00	12926	367.00	109
94.00	1766	174.00	5052	259.00	2116	370.00	249
95.00	423	175.00	10057	260.00	364	371.00	536
96.00	1277	176.00	3035	261.00	396	372.00	4001
97.00	466	177.00	4551	263.00	74	373.00	955

98.00	19128	178.00	1542	264.00	410	374.00	76
99.00	15540	179.00	18808	265.00	5050	377.00	35
100.00	1411	180.00	13114	266.00	795	383.00	1037
101.00	9825	181.00	6063	267.00	132	384.00	277
102.00	474	182.00	1099	268.00	229	385.00	71

103.00	3126	183.00	630	270.00	293	390.00	494
104.00	6015	184.00	1468	271.00	475	391.00	351
105.00	5730	185.00	8755	272.00	582	392.00	300
106.00	1820	186.00	68000	273.00	7006	401.00	228
107.00	71504	187.00	19640	274.00	17472	402.00	1573

108.00	11973	188.00	1820	275.00	104896	403.00	2241
109.00	2160	189.00	4086	276.00	13978	404.00	814
110.00	137024	190.00	744	277.00	8258	405.00	135
111.00	20896	191.00	1923	278.00	1262	421.00	1861
112.00	2542	192.00	5762	279.00	260	422.00	1884

113.00	763	193.00	6135	281.00	136	423.00	14534
114.00	170	194.00	1314	282.00	170	424.00	2924
115.00	390	195.00	846	283.00	954	425.00	201
116.00	4137	196.00	14529	284.00	616	435.00	71
117.00	55648	198.00	490624	285.00	1449	436.00	218

Date : 15-MAR-2010 15:17

Client ID: DFTPP

Instrument: HSD3.i

Sample Info: INBN100306-01,21DFTPP11SVH111DFTPP1

Operator: JLD1

Column phase: J&W DB-5MS

Column diameter: 0.20

Data File: s3c1507.d

Spectrum: Avg. Scans 418-420 (7.71), Background Scan 407

Location of Maximum: 198.00

Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	4299	199.00	33848	286.00	238	438.00	307
119.00	580	200.00	2481	289.00	331	439.00	309
120.00	992	201.00	2445	290.00	258	441.00	43144
121.00	378	203.00	3281	291.00	149	442.00	282048
122.00	4962	204.00	17608	292.00	410	443.00	55768
123.00	7692	205.00	28384	293.00	1965	444.00	5098
124.00	3596	206.00	117312	294.00	428	445.00	356
125.00	3607	207.00	14863	295.00	667		
127.00	288704	208.00	3629	296.00	27232		

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

SDG Number: 10-2121

Matrix: SOIL

Lab Sample ID: 1202060169

Client Sample: QC for batch 960457

Client: LANL010

Project: QC

Client ID: MB for batch 960457

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 960459

Inst: MSD3.I

Dilution: 1

Run Date: 03/13/2010 12:59

Analyst: JLD1

Inj. Vol: .5 uL

Prep Date: 03/03/2010 23:09

Aliquot: 30 g

Final Volume: 1 mL

Data File: s3c1307-1.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	<i>o</i> -Nitroaniline	U	333	ug/kg	66.7	333
	3-Nitroaniline					

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

SDG Number: 10-2121		Matrix: SOIL
Lab Sample ID: 1202060169		
Client Sample: QC for batch 960457	Client: LANL010	Project: QC
Client ID: MB for batch 960457	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 960459	Inst: MSD3.I	Dilution: 1
Run Date: 03/13/2010 12:59	Analyst: JLD1	Inj. Vol: .5 uL
Prep Date: 03/03/2010 23:09	Aliquot: 30 g	Final Volume: 1 mL
Data File: s3c1307-1.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	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	2.53	395	ug/kg		JA

Data File: /chem/MSD3.i/s031310.b/s3c1307-1.d
Report Date: 13-Mar-2010 15:06

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1307-1.d
Lab Smp Id: 1202060169 Client Smp ID: SBLK01
Inj Date : 13-MAR-2010 12:59
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |1202060169|960459|1|SVMF|1|SBLK01
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 13-Mar-2010 14:47 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4		152	3.470	3.473	(1.000)	524010	40.0000	
* 29 Naphthalene-d8		136	4.326	4.329	(1.000)	1985095	40.0000	
* 46 Acenaphthene-d10		164	5.566	5.570	(1.000)	1063348	40.0000	
* 67 Phenanthrene-d10		188	6.588	6.592	(1.000)	1822171	40.0000	
* 91 Chrysene-d12		240	8.171	8.169	(1.000)	1403639	40.0000	
* 98 Perylene-d12		264	9.337	9.330	(1.000)	1038135	40.0000	
\$ 3 2-Fluorophenol		112	2.689	2.682	(0.775)	971043	82.4588	2750
\$ 5 Phenol-d5		99	3.208	3.206	(0.924)	1105608	79.9138	2660
\$ 20 Nitrobenzene-d5		82	3.828	3.837	(0.885)	493119	43.6358	1450
\$ 39 2-Fluorobiphenyl		172	5.069	5.073	(0.911)	1076619	39.7953	1330
\$ 60 2,4,6-Tribromophenol		329	6.123	6.126	(1.100)	216872	88.9511	2960
\$ 81 p-Terphenyl-d14		244	7.529	7.522	(0.921)	1060559	48.7456	1620

Data File: /chem/MSD3.i/s031310.b/s3c1307-1.d
 Report Date: 13-Mar-2010 15:06

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1307-1.d
 Lab Smp Id: 1202060169 Client Smp ID: SBLK01
 Inj Date : 13-MAR-2010 12:59
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |1202060169|960459|1|SVMF|1|SBLK01
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 13-Mar-2010 14:47 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-2121.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

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.470	3190173	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate				CAS #:			
2.528	944464	11.8421724	395	0		0	10

Data File: /chem/MSD3.i/s031310.b/s031307-1.d

Date: 13-MAR-2010 12:59

Client ID: SBLK01

Sample Info: 1202060169196045911|SMF11|SBLK01

Volume Injected (uL): 0.5

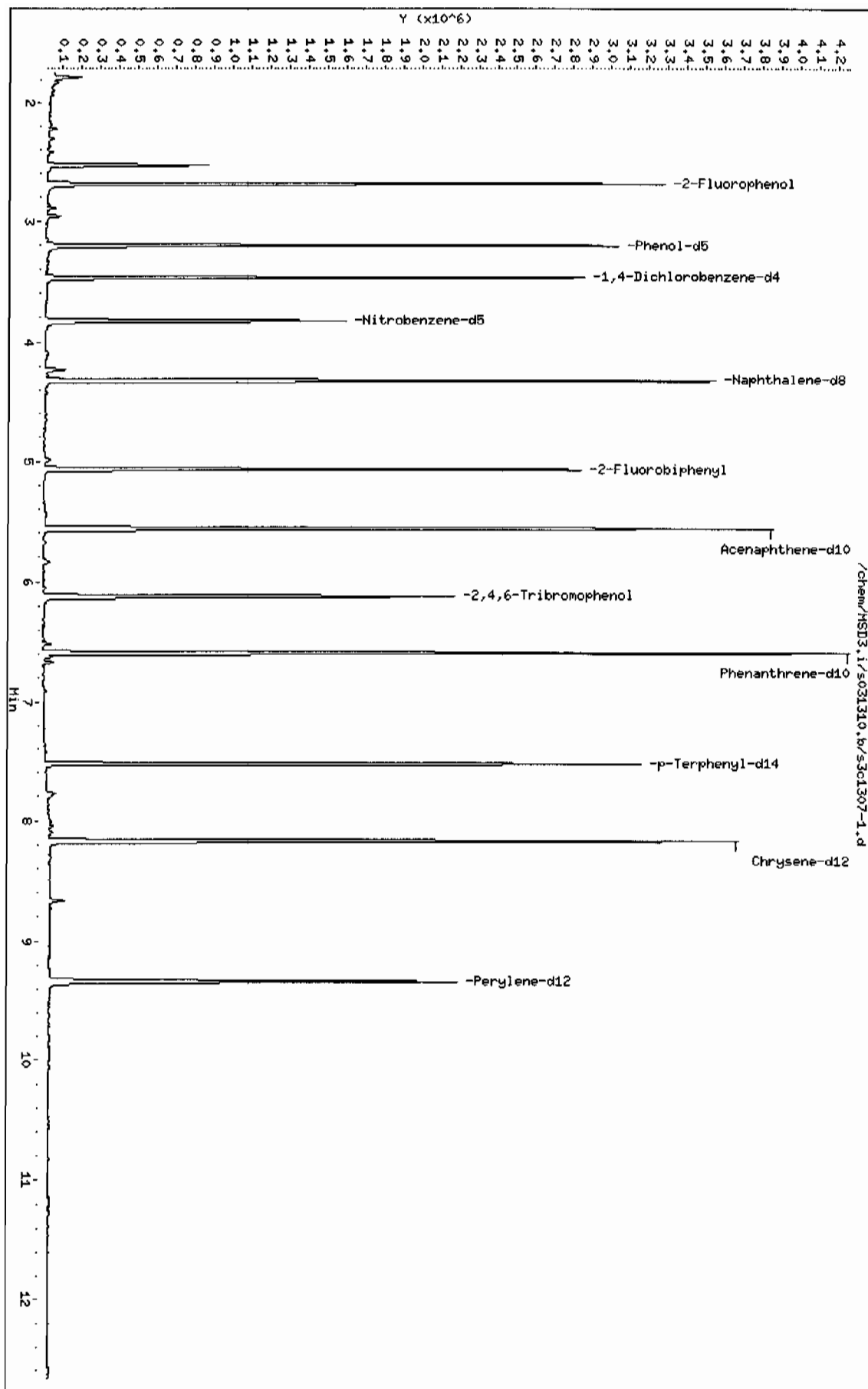
Column phase: 3uM DB-5MS

Instrument: MSD3.i

Operator: JLD1

Column diameter: 0.20

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Date : 13-MAR-2010 12:59

Client ID: SBLK01

Instrument: MSD3.i

Sample Info: I1202060169196045911SVHF11SBLK01

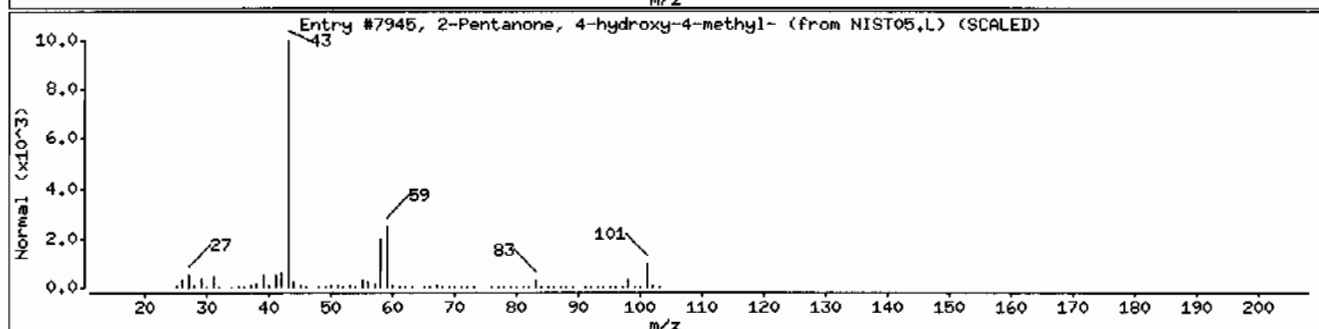
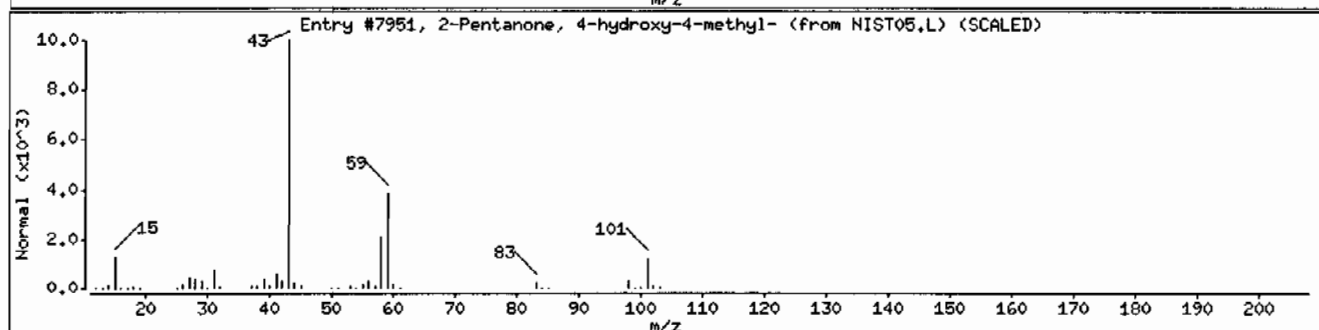
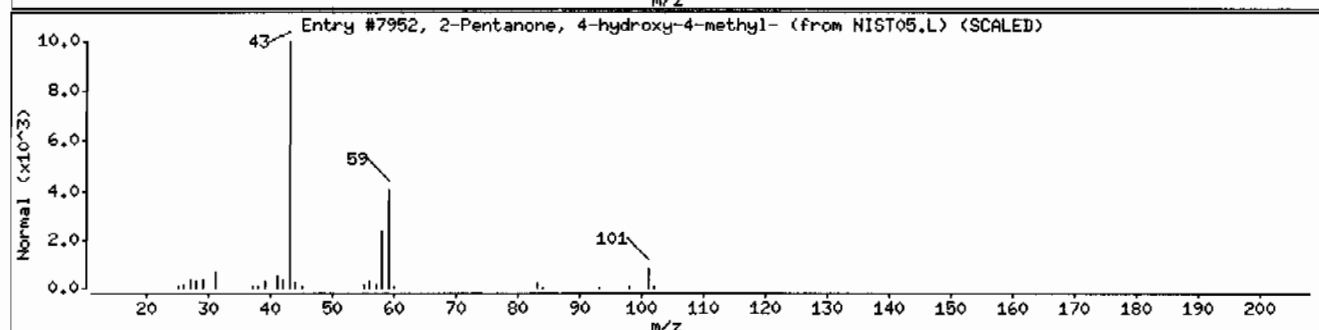
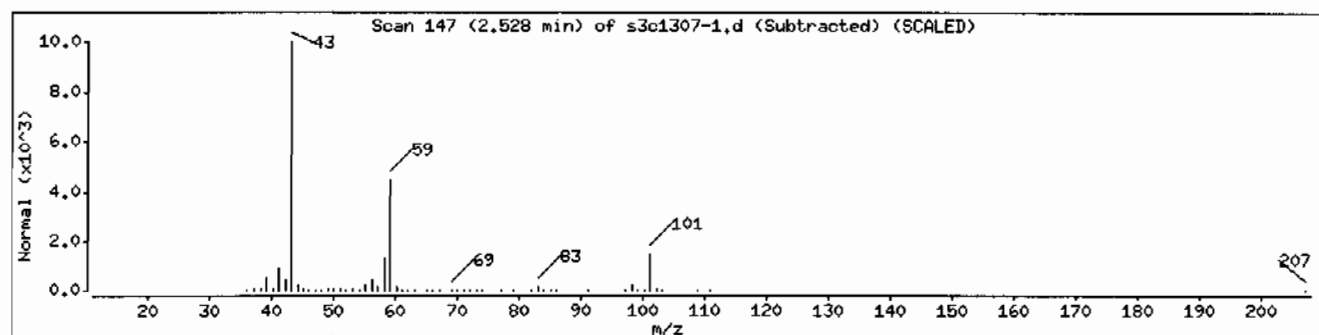
Volume Injected (uL): 0,5

Operator: JLD1

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	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	45	C6H12O2	116



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121		Matrix: SOIL	
Lab Sample ID: 1202060170			
Client Sample: QC for batch 960457	Client: LANL010	Project: QC	
Client ID: LCS for batch 960457	Method: SW846 8270C	SOP Ref: GL-OA-E-009	
Batch ID: 960459	Inst: MSD3.1	Dilution: 1	
Run Date: 03/13/2010 13:19	Analyst: JLD1	Inj. Vol: .5 uL	
Prep Date: 03/03/2010 23:09	Aliquot: 30 g	Final Volume: 1 mL	
Data File: s3c1308-1.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		1200	ug/kg	66.7	333
108-95-2	Phenol		1330	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1350	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1210	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1430	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1390	ug/kg	66.7	333
83-32-9	Acenaphthene		1260	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1360	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1340	ug/kg	110	333
87-86-5	Pentachlorophenol		1440	ug/kg	83.3	333
129-00-0	Pyrene		1200	ug/kg	10.0	33.3
110-86-1	Pyridine		1280	ug/kg	66.7	333
62-53-3	Aniline		865	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		1240	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1230	ug/kg	66.7	333
100-51-6	Benzyl alcohol		1250	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1240	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		1360	ug/kg	66.7	333
95-48-7	o-Cresol		1350	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1520	ug/kg	100	333
67-72-1	Hexachloroethane		1250	ug/kg	66.7	333
98-95-3	Nitrobenzene		1390	ug/kg	66.7	333
78-59-1	Isophorone		1340	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1350	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1350	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1300	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1330	ug/kg	66.7	333
65-85-0	Benzoic acid		3160	ug/kg	167	667
91-20-3	Naphthalene		1240	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		893	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1310	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1330	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1560	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1290	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1340	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1250	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1380	ug/kg	66.7	333
	o-Nitroaniline					
99-09-2	3-Nitroaniline		1220	ug/kg	66.7	333

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 1202060170
Client Sample: QC for batch 960457
Client ID: LCS for batch 960457
Batch ID: 960459
Run Date: 03/13/2010 13:19
Prep Date: 03/03/2010 23:09
Data File: s3c1308-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD3.I
Analyst: JLD1
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
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1360	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1300	ug/kg	33.3	333
208-96-8	Acenaphthylene		1320	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		1480	ug/kg	127	667
132-64-9	Dibenzofuran		1310	ug/kg	66.7	333
84-66-2	Diethylphthalate		1420	ug/kg	66.7	333
86-73-7	Fluorene		1280	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1310	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1400	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1590	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1440	ug/kg	66.7	333
122-66-7	Azobenzene		1520	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1310	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1290	ug/kg	66.7	333
85-01-8	Phenanthrene		1310	ug/kg	10.0	33.3
120-12-7	Anthracene		1280	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1500	ug/kg	66.7	333
206-44-0	Fluoranthene		1380	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1450	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1290	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1120	ug/kg	100	333
218-01-9	Chrysene		1260	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1510	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1510	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1390	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1210	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1300	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1420	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1460	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1340	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1270	ug/kg	66.7	333

Data File: /chem/MSD3.i/s031310.b/s3c1308-1.d
Report Date: 13-Mar-2010 15:06

Page 1

GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1308-1.d
Lab Smp Id: 1202060170 Client Smp ID: SBLK01LCS
Inj Date : 13-MAR-2010 13:19
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |1202060170|960459|1|SVMF|1|SBLK01LCS
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 13-Mar-2010 14:47 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-2121.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	0.00000	% moisture

Cpnd Variable Local Compound Variable

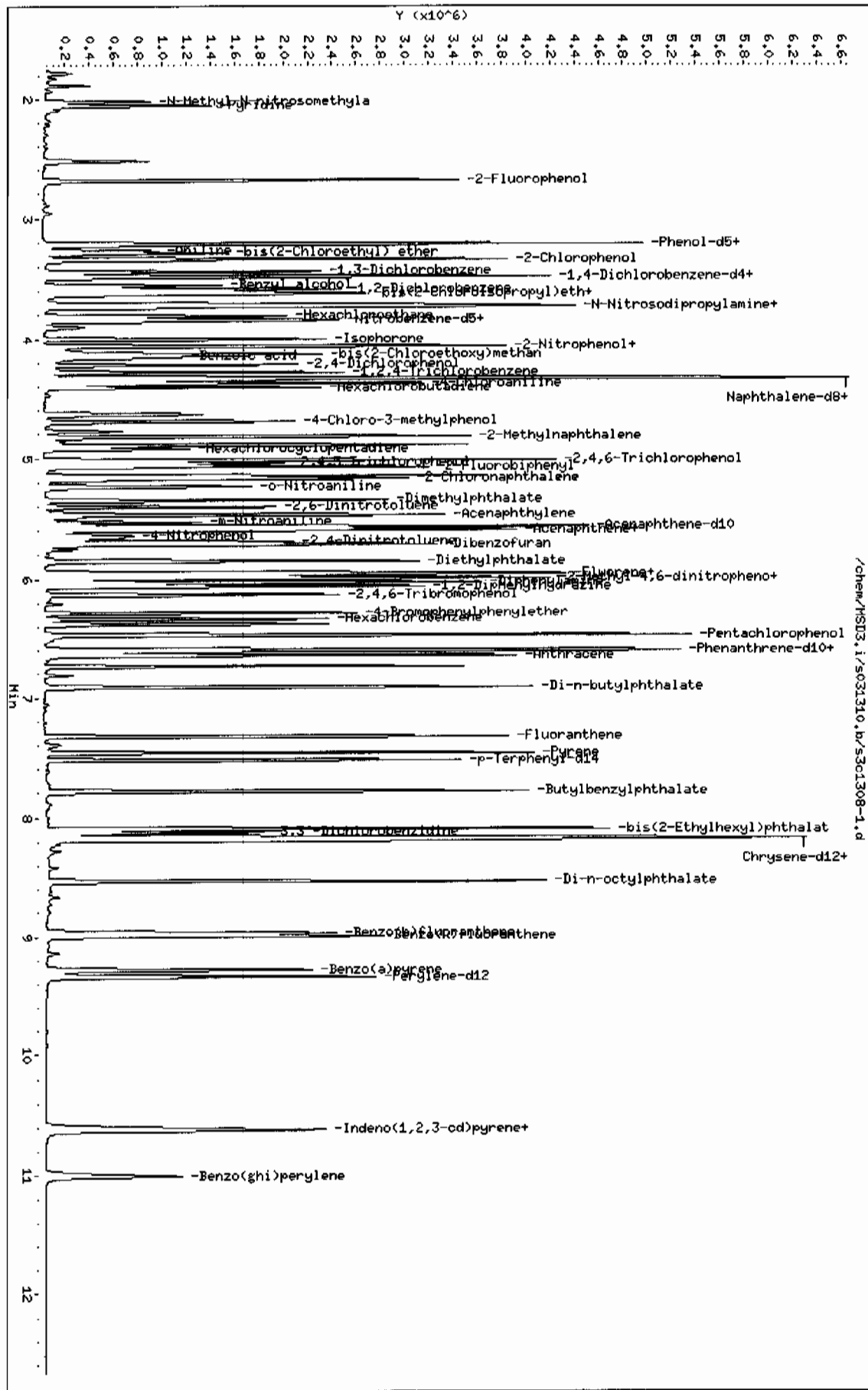
Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
=====	====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.475	3.473	(1.000)	583675	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2402078	40.0000	
* 46 Acenaphthene-d10	164	5.566	5.570	(1.000)	1222935	40.0000	
* 67 Phenanthrene-d10	188	6.593	6.592	(1.000)	2098530	40.0000	
* 91 Chrysene-d12	240	8.171	8.169	(1.000)	1724575	40.0000	
* 98 Perylene-d12	264	9.337	9.330	(1.000)	1326318	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	1026867	78.2855	2610
\$ 5 Phenol-d5	99	3.213	3.206	(0.925)	1171347	76.0107	2530
\$ 20 Nitrobenzene-d5	82	3.833	3.837	(0.886)	532667	38.9530	1300
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	1138023	36.5757	1220
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126	(1.101)	253694	90.4753	3020
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	1131235	42.3182	1410

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	3.218	3.217	(0.926)	634681	40.0107	1330
8 2-Chlorophenol	128	3.341	3.340	(0.962)	631324	40.3748	1340
11 1,4-Dichlorobenzene	146	3.486	3.484	(1.003)	662500	36.3361	1210
17 N-Nitrosodipropylamine	70	3.721	3.719	(1.071)	378670	42.9840	1430 (Q)
28 1,2,4-Trichlorobenzene	180	4.277	4.281	(0.989)	516595	38.1661	1270
33 4-Chloro-3-methylphenol	107	4.695	4.682	(1.085)	502139	41.8103	1390
47 Acenaphthene	154	5.593	5.591	(1.005)	1141283	37.9030	1260
50 2,4-Dinitrotoluene	165	5.695	5.693	(1.023)	408280	40.8452	1360
52 4-Nitrophenol	139	5.641	5.629	(1.013)	211401	40.1439	1340
65 Pentachlorophenol	266	6.460	6.458	(0.980)	173938	43.1411	1440
79 Pyrene	202	7.465	7.463	(0.914)	1795416	35.9539	1200
2 Pyridine	79	2.058	2.029	(0.592)	396742	38.3768	1280
4 Aniline	66	3.267	3.265	(0.940)	173371	25.9428	865 (Q)
7 bis(2-Chloroethyl) ether	63	3.288	3.286	(0.946)	425196	37.1367	1240
9 1,3-Dichlorobenzene	146	3.438	3.441	(0.989)	643102	36.7703	1220
12 Benzyl alcohol	108	3.550	3.548	(1.022)	344499	37.6127	1250
13 1,2-Dichlorobenzene	146	3.582	3.586	(1.031)	622766	37.1133	1240
14 bis(2-Chloroisopropyl) ether	45	3.625	3.623	(1.043)	1178045	40.7756	1360
15 o-Cresol	107	3.603	3.602	(1.037)	444203	40.3535	1340
18 m,p-Cresols	107	3.705	3.703	(1.066)	640430	45.7336	1520
19 Hexachloroethane	117	3.807	3.805	(1.095)	259649	37.4115	1250
21 Nitrobenzene	77	3.850	3.848	(0.890)	563100	41.5683	1380
22 Isophorone	82	3.999	4.003	(0.925)	992695	40.0567	1340
23 2-Nitrophenol	139	4.058	4.056	(0.938)	332303	40.4113	1350
24 2,4-Dimethylphenol	122	4.063	4.062	(0.939)	554825	40.4622	1350
25 bis(2-Chloroethoxy)methane	93	4.128	4.131	(0.954)	613252	38.8819	1300
26 2,4-Dichlorophenol	162	4.219	4.217	(0.975)	472832	39.8518	1330
27 Benzoic acid	105	4.154	4.120	(0.960)	773502	94.7278	3160
30 Naphthalene	128	4.342	4.340	(1.004)	1765963	37.0538	1240
31 4-Chloroaniline	127	4.368	4.367	(1.010)	493218	26.7877	893
32 Hexachlorobutadiene	225	4.406	4.409	(1.019)	272127	39.3912	1310
34 2-Methylnaphthalene	142	4.818	4.821	(1.114)	1232927	39.8330	1330
36 Hexachlorocyclopentadiene	237	4.919	4.923	(0.884)	182306	46.7897	1560
37 2,4,6-Trichlorophenol	196	5.016	5.014	(0.901)	326249	38.7974	1290
38 2,4,5-Trichlorophenol	196	5.042	5.040	(0.906)	383589	40.3172	1340
40 2-Chloronaphthalene	162	5.171	5.169	(0.929)	1052067	37.3613	1240
42 o-Nitroaniline	65	5.235	5.238	(0.940)	333833	41.4348	1380
41 m-Nitroaniline	138	5.529	5.533	(0.993)	264688	36.4699	1220
43 Dimethylphthalate	163	5.347	5.351	(0.961)	1330279	40.7451	1360
44 2,6-Dinitrotoluene	165	5.401	5.404	(0.970)	305051	38.9471	1300
45 Acenaphthylene	152	5.470	5.468	(0.983)	1813460	39.6470	1320
48 2,4-Dinitrophenol	184	5.604	5.607	(1.007)	128229	44.3388	1480 (Q)
49 Dibenzofuran	168	5.711	5.714	(1.026)	1501668	39.3998	1310
51 Diethylphthalate	149	5.850	5.848	(1.051)	1452700	42.7309	1420
53 Fluorene	166	5.957	5.960	(1.070)	1270589	38.4457	1280
54 4-Chlorophenylphenylether	204	5.946	5.944	(1.068)	581802	39.2357	1310
55 2-Methyl-4,6-dinitrophenol	198	5.989	5.982	(0.908)	188817	41.9695	1400

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
56 p-Nitroaniline		138	5.973	5.966	(1.073)	314397	47.7389	1590
133 Diphenylamine		169	6.026	6.025	(0.914)	1122933	43.0860	1440
58 1,2-Diphenylhydrazine		77	6.059	6.057	(0.919)	1278711	45.5354	1520
61 4-Bromophenylphenylether		248	6.283	6.281	(0.953)	301565	39.4497	1310
63 Hexachlorobenzene		284	6.331	6.329	(0.960)	292081	38.5590	1280
68 Phenanthrene		178	6.609	6.608	(1.002)	1865153	39.2362	1310
69 Anthracene		178	6.642	6.640	(1.007)	1794149	38.5487	1280
72 Di-n-butylphthalate		149	6.909	6.912	(1.048)	2411882	44.8549	1500
76 Fluoranthene		202	7.326	7.324	(1.111)	1782289	41.3926	1380
85 Butylbenzylphthalate		149	7.781	7.779	(0.952)	1102194	43.5526	1450
89 Benzo(a)anthracene		228	8.166	8.159	(0.999)	1554584	38.8152	1290
90 3,3'-Dichlorobenzidine		252	8.123	8.123	(0.994)	381411	33.7332	1120
92 Chrysene		228	8.193	8.185	(1.003)	1544851	37.7244	1260
93 bis(2-Ethylhexyl)phthalate		149	8.096	8.089	(0.991)	1535421	45.3269	1510
94 Di-n-octylphthalate		149	8.530	8.528	(0.914)	2476581	45.3866	1510
95 Benzo(b)fluoranthene		252	8.968	8.966	(0.960)	1401748	41.6379	1390
96 Benzo(k)fluoranthene		252	8.995	8.988	(0.963)	1317335	36.2264	1210
97 Benzo(a)pyrene		252	9.284	9.277	(0.994)	1130115	39.0769	1300
99 Indeno(1,2,3-cd)pyrene		276	10.610	10.603	(1.136)	1063961	42.6669	1420
100 Dibenzo(a,h)anthracene		278	10.621	10.608	(1.137)	889923	43.8509	1460
101 Benzo(ghi)perylene		276	11.001	10.993	(1.178)	826265	40.3341	1340
1 N-Methyl-N-nitrosomethylamine		74	2.026	2.002	(0.583)	244490	35.9649	1200

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: /chem/MSD3.i/s031310.b/s3c1308-1.d
Date: 13-MAR-2010 13:19
Client ID: SBLK01CS
Sample Info: 112020601701960459111SWF111SBLK01CS
Volume Injected (uL): 0.5
Column phase: J&W DB-5MS

Instrument: MSD3.i
Operator: JLD1
Column diameter: 0.20

/chem/MSD3.i/s031310.b/s3c1308-1.d

Miscellaneous Data

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 960457 Verified by: _____
 Analyst: Alberto Velasco
 Method: SW846 3550B Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202060169 MB	03-MAR-2010 23:09:00	30	1	0.03333
1202060170 LCS	03-MAR-2010 23:09:00	30	1	0.03333
248184002	03-MAR-2010 23:09:00	30.14	1	0.03318
248184003	03-MAR-2010 23:09:00	30.02	1	0.03331
248197001	03-MAR-2010 23:09:00	30.12	1	0.0332
248197002	03-MAR-2010 23:09:00	30.13	1	0.03319
248197003	03-MAR-2010 23:09:00	30.08	1	0.03324
248197004	03-MAR-2010 23:09:00	30.17	1	0.03315
248197005	03-MAR-2010 23:09:00	30.19	1	0.03312
248197007	03-MAR-2010 23:09:00	30.11	1	0.03321
248197008	03-MAR-2010 23:09:00	30.16	1	0.03316
248197009	03-MAR-2010 23:09:00	30.08	1	0.03324
248197010	03-MAR-2010 23:09:00	30.17	1	0.03315
248197011	03-MAR-2010 23:09:00	30.12	1	0.0332
248197012	03-MAR-2010 23:09:00	30.18	1	0.03313
248197013	03-MAR-2010 23:09:00	30.2	1	0.03311
248202001	03-MAR-2010 23:09:00	30.13	1	0.03319
248202002	03-MAR-2010 23:09:00	30.15	1	0.03317
248203002	03-MAR-2010 23:09:00	30.19	1	0.03312
1202060171 MS (248203002)	03-MAR-2010 23:09:00	30.19	1	0.03312
1202060172 MSD (248203002)	03-MAR-2010 23:09:00	30.05	1	0.03328

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202060170	BNA LCS w/o Benzidine 50ppm	UEI00222-14	1	mL	Verified By: AAW
LCS	1202060170	BENZIDINE LCS	UEI00302-22	1	mL	Final Solvent: CH2Cl2
MS	1202060171	BNA LCS w/o Benzidine 50ppm	UEI00222-14	1	mL	
MS	1202060171	BENZIDINE LCS	UEI00302-22	1	mL	
MSD	1202060172	BNA LCS w/o Benzidine 50ppm	UEI00222-14	1	mL	
MSD	1202060172	BENZIDINE LCS	UEI00302-22	1	mL	
SURR	All	BNA for all Surrogate	UEI00301-10	1	mL	
REGNT	All	Methylene Chloride	100301-D	150	mL	
REGNT	All	Acetone	1273823-B1	150	mL	
SOURC	All	SODIUM SULFATE	1274910	30	g	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD6

DATE: 03/01/2010

METHOD: See raw data

OPERATOR: nag1

REVIEWED BY:

DATE:

SOLVENT LOT:1239699-D

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1
Multiplier Voltage: 1553 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100217-01

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/s030110b.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s6c0121-D.d	WBN100207-01	nag1	01-MAR-2010 21:34	1DFTPP	s030110b	1.0	DFTPP	
s6c0121.d	WBN100207-01	nag1	01-MAR-2010 21:34	1DFTPP	s030110b	1.0	DFTPP	
s6c0122.d	WBN100225-05.2	nag1	01-MAR-2010 21:47	140 PPM	s030110b	1.0	MEGACVS	DUSE
s6c0123.d	WBN100218-08.2	nag1	01-MAR-2010 22:11	140 PPM	s030110b	1.0	APCVS	DUSE
s6c0124.d	WBN100225-08	nag1	01-MAR-2010 22:35	11 PPM	s030110b	1.0	MEGA001	
s6c0125-RQ.d	WBN100225-07	nag1	01-MAR-2010 23:04	110 PPM	s030110b	1.0	MEGA002	
s6c0125.d	WBN100225-07	nag1	01-MAR-2010 23:04	110 PPM	s030110b	1.0	MEGA002	
s6c0126.d	WBN100225-06	nag1	01-MAR-2010 23:33	120 PPM	s030110b	1.0	MEGA020	
s6c0127.d	WBN100225-05.1	nag1	02-MAR-2010 00:02	140 PPM	s030110b	1.0	MEGA040	
s6c0128.d	WBN100225-04	nag1	02-MAR-2010 00:31	150 PPM	s030110b	1.0	MEGA050	
s6c0129.d	WBN100225-03	nag1	02-MAR-2010 01:00	180 PPM	s030110b	1.0	MEGA080	
s6c0130.d	WBN100225-02	nag1	02-MAR-2010 01:29	1100 PPM	s030110b	1.0	MEGA100	
s6c0131.d	WBN100225-01	nag1	02-MAR-2010 01:58	1120 PPM	s030110b	1.0	MEGA120	
s6c0132-BOE.d	WBN100225-09.1	nag1	02-MAR-2010 02:27	140 PPM	s030110b	1.0	MEGA1cv	
s6c0132-D.d	WBN100225-09.1	nag1	02-MAR-2010 02:27	140 PPM	s030110b	1.0	MEGA1cv	
s6c0132.d	WBN100225-09.1	nag1	02-MAR-2010 02:27	140 PPM	s030110b	1.0	MEGA1cv	PASS ICV 260538

Instrument Batch: /chem/MSD6.i/s030110b.b

Page: 1

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD3

DATE: 03/09/2010

METHOD: See raw data

OPERATOR: JLD1

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1262945-D
Multiplier Voltage: 1141 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100227-01
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/MSD3.i/s030910a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
13c0917.d	WBN100306-01.2	JLD1	09-MAR-2010 15:53	150NG	1s030910a	1.0	DFTPP	USE; 8270D MEGA
13c0917.d	WBN100306-01.2	JLD1	09-MAR-2010 15:53	150NG	1s030910a	1.0	DFTPP	USE; 8270C MEGA
13c0918.d	INSTBLK	JLD1	09-MAR-2010 16:05		1s030910a	1.0		IB
13c0919.d	WBN100309-08	JLD1	09-MAR-2010 16:24	101PPM	1s030910a	1.0	MEGAICAL	USE; LEV 1
13c0920-mqc	WBN100309-07	JLD1	09-MAR-2010 16:47	110PPM	1s030910a	1.0	MEGAICAL	DUSE; FOR 8270D MQC
13c0920.d	WBN100309-07	JLD1	09-MAR-2010 16:47	110PPM	1s030910a	1.0	MEGAICAL	USE; LEV 2
13c0921-mqc	WBN100309-06	JLD1	09-MAR-2010 17:11	120PPM	1s030910a	1.0	MEGAICAL	DUSE; FOR 8270D MQC
13c0921.d	WBN100309-06	JLD1	09-MAR-2010 17:11	120PPM	1s030910a	1.0	MEGAICAL	USE; LEV 3
13c0922.d	WBN100309-05.1	JLD1	09-MAR-2010 17:34	140PPM	1s030910a	1.0	MEGAICAL	USE; LEV 4
13c0923.d	WBN100309-04	JLD1	09-MAR-2010 17:58	150PPM	1s030910a	1.0	MEGAICAL	USE; LEV 5
13c0924.d	WBN100309-03	JLD1	09-MAR-2010 18:22	180PPM	1s030910a	1.0	MEGAICAL	USE; LEV 6
13c0925.d	WBN100309-02	JLD1	09-MAR-2010 18:46	1100PPM	1s030910a	1.0	MEGAICAL	USE; LEV 7
13c0926.d	WBN100309-01	JLD1	09-MAR-2010 19:10	120PPM	1s030910a	1.0	MEGAICAL	USE; LEV 8
13c0927-BOE	WBN100225-09.1	JLD1	09-MAR-2010 19:33	140PPM	1s030910a	1.0	MEGAICAL	USE; BOE
13c0927-D.d	WBN100225-09.1	JLD1	09-MAR-2010 19:33	140PPM	1s030910a	1.0	MEGAICAL	USE; 8270D
13c0927.d	WBN100225-09.1	JLD1	09-MAR-2010 19:33	140PPM	1s030910a	1.0	MEGAICAL	USE; 8270C
13c0928-D.d	WBN100306-01.2	JLD1	09-MAR-2010 20:38	150NG	1s030910a	1.0	DFTPP	USE; 8270D AP/PEST/HEX
13c0928.d	WBN100306-01.2	JLD1	09-MAR-2010 20:38	150NG	1s030910a	1.0	DFTPP	USE; 8270C AP/PEST/HEX
13c0929.d	INSTBLK	JLD1	09-MAR-2010 20:50		1s030910a	1.0		IB

|s3c0930.d	|WBN100218-01	|JLD1	|09-MAR-2010 21:10	|10PPM	|s030910a	|	|1.0|AP010	|USE; LEV 2	|
|s3c0931.d	|WBN100218-02	|JLD1	|09-MAR-2010 21:29	|20PPM	|s030910a	|	|1.0|AP020	|USE; LEV 3	|
|s3c0932.d	|WBN100218-03.1	|JLD1	|09-MAR-2010 21:49	|40PPM	|s030910a	|	|1.0|AP040	|USE; LEV 4	|
|s3c0933.d	|WBN100218-04	|JLD1	|09-MAR-2010 22:08	|50PPM	|s030910a	|	|1.0|AP050	|USE; LEV 5	|
|s3c0934.d	|WBN100218-05	|JLD1	|09-MAR-2010 22:27	|80PPM	|s030910a	|	|1.0|AP080	|USE; LEV 6	|
|s3c0935.d	|WBN100218-06	|JLD1	|09-MAR-2010 22:47	|100PPM	|s030910a	|	|1.0|AP100	|USE; LEV 7	|
|s3c0936.d	|WBN100218-07	|JLD1	|09-MAR-2010 23:06	|120PPM	|s030910a	|	|1.0|AP120	|USE; LEV 8	|
|s3c0937.d	|WBN100304-25	|JLD1	|09-MAR-2010 23:25	|10PPM	|s030910a	|	|1.0|PEST010	|USE; LEV 2	|
|s3c0938.d	|WBN100304-24	|JLD1	|09-MAR-2010 23:45	|20PPM	|s030910a	|	|1.0|PEST020	|USE; LEV 3	|
|s3c0939.d	|WBN100304-23.1	|JLD1	|10-MAR-2010 00:04	|40PPM	|s030910a	|	|1.0|PEST040	|USE; LEV 4	|
|s3c0940.d	|WBN100304-22	|JLD1	|10-MAR-2010 00:24	|50PPM	|s030910a	|	|1.0|PEST050	|USE; LEV 5	|
|s3c0941.d	|WBN100304-21	|JLD1	|10-MAR-2010 00:43	|80PPM	|s030910a	|	|1.0|PEST080	|USE; LEV 6	|
|s3c0942.d	|WBN100304-20	|JLD1	|10-MAR-2010 01:02	|100PPM	|s030910a	|	|1.0|PEST100	|USE; LEV 7	|
|s3c0943.d	|WBN100304-19	|JLD1	|10-MAR-2010 01:21	|120PPM	|s030910a	|	|1.0|PEST120	|USE; LEV 8	|
|s3c0944.d	|WBN100304-16	|JLD1	|10-MAR-2010 01:41	|500PPM	|s030910a	|	|1.0|HEX500	|USE; LEV 2	|
|s3c0945.d	|WBN100304-15	|JLD1	|10-MAR-2010 02:00	|1000PPM	|s030910a	|	|1.0|HEX1000	|USE; LEV 3	|
|s3c0946.d	|WBN100304-14	|JLD1	|10-MAR-2010 02:19	|1250PPM	|s030910a	|	|1.0|HEX1250	|USE; LEV 4	|
|s3c0947.d	|WBN100304-13	|JLD1	|10-MAR-2010 02:38	|1500PPM	|s030910a	|	|1.0|HEX1500	|USE; LEV 5	|
|s3c0948.d	|WBN100304-12	|JLD1	|10-MAR-2010 02:57	|1750PPM	|s030910a	|	|1.0|HEX1750	|USE; LEV 6	|
|s3c0949.d	|WBN100126-02.3	|JLD1	|10-MAR-2010 03:16	|2000PPM	|s030910a	|	|1.0|HEX2000	|USE; LEV 7	|
|s3c0950-D.d	|WBN100218-08.1	|JLD1	|10-MAR-2010 03:36	|40PPM	|s030910a	|	|1.0|AP1CV	|USE; 8270D	|
|s3c0950.d	|WBN100218-08.1	|JLD1	|10-MAR-2010 03:36	|40PPM	|s030910a	|	|1.0|AP1CV	|USE; 8270C	|

Instrument Batch: /chem/MSD3.i/s030910a.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
|s3c0951-D.d	|WBN100304-26.1	|JLD1	|10-MAR-2010 03:55	|40PPM	|s030910a	|	|1.0|PEST1CV	|USE; 8270D
|s3c0951.d	|WBN100304-26.1	|JLD1	|10-MAR-2010 03:55	|40PPM	|s030910a	|	|1.0|PEST1CV	|USE; 8270C
|s3c0952-D.d	|WBN100304-10.1	|JLD1	|10-MAR-2010 04:14	|1250PPM	|s030910a	|	|1.0|HEX1CV	|USE; 8270D

s3c0952.d	WBN100304-10.1	IJLD1	10-MAR-2010 04:14	1250PPM	s030910a	1.0|HEXICV	USE; 8270C	
s3c0953-D.d	WBN100306-01.2	IJLD1	10-MAR-2010 04:35	15CNG	s030910a	1.0|DFTTP	DOSE; 8270C	
s3c0953.d	WBN100306-01.2	IJLD1	10-MAR-2010 04:35	15ONG	s030910a	1.0|DFTTP	USE; 8270C BJCO	
s3c0954.d	INSTELK	IJLD1	10-MAR-2010 04:48		s030910a	1.0|	IB	
s3c0955.d	WBN100301-07	IJLD1	10-MAR-2010 05:06	110PPM	s030910a	1.0|BJ010	USE; LEV 2	
s3c0956.d	WBN100301-06	IJLD1	10-MAR-2010 05:30	120PPM	s030910a	1.0|BJ020	USE; LEV 3	
s3c0957.d	WBN100301-05.1	IJLD1	10-MAR-2010 05:53	140PPM	s030910a	1.0|BJ040	USE; LEV 4	
s3c0958.d	WBN100301-04	IJLD1	10-MAR-2010 06:16	150PPM	s030910a	1.0|BJ050	USE; LEV 5	
s3c0959.d	WBN100301-03	IJLD1	10-MAR-2010 06:40	180PPM	s030910a	1.0|BJ080	USE; LEV 6	
s3c0960.d	WBN100301-02	IJLD1	10-MAR-2010 07:03	1100PPM	s030910a	1.0|BJ100	USE; LEV 7	
s3c0961.d	WBN100301-01	IJLD1	10-MAR-2010 07:27	1120PPM	s030910a	1.0|BJ120	USE; LEV	
s3c0962.d	WBN100301-05.2	IJLD1	10-MAR-2010 07:50	140PPM	s030910a	1.0|BJCVS	USE	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD3

DATE: 03/13/2010

METHOD: See raw data

OPERATOR: JLD1

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

Multiplier Voltage: 1129 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN100207-01 Internal Std ID: WBN100227-01

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/MSD3.i/s031310.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s3c1301.d	WBN100306-01.2	JLD1	13-MAR-2010 10:37	150NG	s031310	1	1.0 DFTPP	USE
s3c1302.d	WBN100309-05.3	JLD1	13-MAR-2010 10:49	140PPM	s031310	1	1.0 MEGACVS	USE c94
s3c1303.d	WBN100309-09.2	JLD1	13-MAR-2010 11:13	140PPM	s031310	1	1.0 MEGACVS	pass 420090
s3c1304.d	WBN100218-08.3	JLD1	13-MAR-2010 11:36	140PPM	s031310	1	1.0 APCVS	USE
s3c1305.d	WBN100304-26.3	JLD1	13-MAR-2010 11:56	140PPM	s031310	1	1.0 PESTCVS	USE
s3c1306.d	WBN100301-05.4	JLD1	13-MAR-2010 12:34	140PPM	s031310	1	1.0 BJOCVS	USE
s3c1307-1.d	1202060169	JLD1	13-MAR-2010 12:59	1960459	10-2121	1	1.0 SBLK01	USE
s3c1307-2.d	1202060169	JLD1	13-MAR-2010 12:59	1960459	10-2124	1	1.0 SBLK01	USE
s3c1307-3.d	1202060169	JLD1	13-MAR-2010 12:59	1960459	10-2125	1	1.0 SBLK01	USE
s3c1307.d	1202060169	JLD1	13-MAR-2010 12:59	1960459	10-2119	1	1.0 SBLK01	USE
s3c1308-1.d	1202060170	JLD1	13-MAR-2010 13:19	1960459	10-2121	1	1.0 SBLK01LCS	USE
s3c1308-2.d	1202060170	JLD1	13-MAR-2010 13:19	1960459	10-2124	1	1.0 SBLK01LCS	USE
s3c1308-3.d	1202060170	JLD1	13-MAR-2010 13:19	1960459	10-2125	1	1.0 SBLK01LCS	USE
s3c1308.d	1202060170	JLD1	13-MAR-2010 13:19	1960459	10-2119	1	1.0 SBLK01LCS	USE
s3c1309.d	1248165019	JLD1	13-MAR-2010 13:38	1960455	10-2116	1	40.0 LANL	USE
s3c1310.d	1248420008	JLD1	13-MAR-2010 14:02	1962761	10-2190	1	1.0 LANL	USE
s3c1311.d	1248420009	JLD1	13-MAR-2010 14:21	1962761	10-2190	1	1.0 LANL	USE
s3c1312.d	1248695015	JLD1	13-MAR-2010 14:40	1963790	1248695	2.0	BY12	1r s3c1225
s3c1313.d	1248184002	JLD1	13-MAR-2010 14:59	1960459	10-2119	1	40.0 LANL	USE

s3c1314.d	1248184003	JLD1	13-MAR-2010 15:19	960459	10-2119	2.0|LANL	USE
s3c1315.d	1248197001	JLD1	13-MAR-2010 15:38	960459	10-2121	2.0|LANL	USE
s3c1316.d	1248197002	JLD1	13-MAR-2010 15:58	960459	10-2121	4.0|LANL	USE
s3c1317.d	1248197003	JLD1	13-MAR-2010 16:17	960459	10-2121	2.0|LANL	USE
s3c1318.d	1248197004	JLD1	13-MAR-2010 16:36	960459	10-2121	2.0|LANL	USE
s3c1319.d	1248197005	JLD1	13-MAR-2010 16:56	960459	10-2121	2.0|LANL	USE
s3c1320.d	1248197007	JLD1	13-MAR-2010 17:15	960459	10-2121	4.0|LANL	USE
s3c1321.d	1248197008	JLD1	13-MAR-2010 17:34	960459	10-2121	2.0|LANL	USE
s3c1322.d	1248197010	JLD1	13-MAR-2010 17:54	960459	10-2121	2.0|LANL	DOSE; fail 1std; SEE S3C1517
s3c1323.d	1248197012	JLD1	13-MAR-2010 18:13	960459	10-2121	2.0|LANL	USE
s3c1324.d	1248197013	JLD1	13-MAR-2010 18:32	960459	10-2121	2.0|LANL	USE
s3c1325.d	1248202001	JLD1	13-MAR-2010 18:52	960459	10-2124	2.0|LANL	USE
s3c1326.d	1248203002	JLD1	13-MAR-2010 19:11	960459	10-2125	2.0|LANL	USE
s3c1327.d	1202060171	JLD1	13-MAR-2010 19:30	960459	10-2125	2.0|MS	USE
s3c1328.d	1202060172	JLD1	13-MAR-2010 19:49	960459	10-2125	2.0|MSD	USE
s3c1329.d	1248202002	JLD1	13-MAR-2010 20:09	960459	10-2124	40.0|LANL	USE
s3c1330.d	INSTBLNK	JLD1	13-MAR-2010 20:28		s031310	1.0|	IB
s3c1331.d	1248197009	JLD1	13-MAR-2010 20:47	960459	10-2121	40.0|LANL	USE
s3c1332.d	1248197009	JLD1	13-MAR-2010 21:07	960459	10-2121	4.0|LANL	USE
s3c1333.d	INSTBLNK	JLD1	13-MAR-2010 21:26		s031310	1.0|	IB
s3c1334.d	1248197011	JLD1	13-MAR-2010 21:45	960459	10-2121	20.0|LANL	USE
s3c1335.d	1248197011	JLD1	13-MAR-2010 22:04	960459	10-2121	2.0|LANL	USE

Instrument Batch: /chem/MSD3.i/s031310.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD3

DATE: 03/15/2010

METHOD: See raw data

OPERATOR: JLD1

REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1262945-D

Multiplier Voltage: 1129 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN100306-01.2 Internal Std ID: WBN100310-01

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/MSD3.i/s031510.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SG	Dilution	Client	Comments
Is3c1501.d	WBN100306-01.2	JMB3	15-MAR-2010 12:33	150NG	Is031510	1.0	DFTPP	DUSE
Is3c1502.d	WBN100309-05.2	JMB3	15-MAR-2010 12:45	140PPM	Is031510	1.0	MEGACVS	DUSE
Is3c1503.d	WBN100312-03.3	JMB3	15-MAR-2010 13:09	140PPM	Is031510	1.0	APCVS	DUSE
Is3c1504.d	WBN100301-05.5	JMB3	15-MAR-2010 13:28	140PPM	Is031510	1.0	BJOCVCS	DUSE
Is3c1505.d	WBN100304-23.2	JMB3	15-MAR-2010 13:52	140PPM	Is031510	1.0	PESTCVS	DUSE
Is3c1506.d	WBN100309-05.2	JMB3	15-MAR-2010 14:11	140PPM	Is031510	1.0	MEGACVS	DUSE; MAINTENANCE
Is3c1507.d	WBN100306-01.2	JLD1	15-MAR-2010 15:17	150N	Is031510	1.0	DFTPP	DUSE
Is3c1508.d	WBN100309-05.2	JLD1	15-MAR-2010 15:29	140PPM	Is031510	1.0	MEGACVS	DUSE
Is3c1509.d	WBN100312-03.3	JLD1	15-MAR-2010 15:51	140PPM	Is031510	1.0	APCVS	DUSE
Is3c1510.d	WBN100309-05.2	Inag1	15-MAR-2010 16:32	140PPM	Is031010a	1.0	MEGACVS	DUSE (531357)
Is3c1511.d	WBN100301-05.5	JLD1	15-MAR-2010 16:56	140PPM	Is031510	1.0	BJOCVCS	DUSE
Is3c1512.d	WBN100304-23.2	JLD1	15-MAR-2010 17:19	140PPM	Is031510	1.0	PESTCVS	DUSE
Is3c1513.d	1202068922	JLD1	15-MAR-2010 17:39	964382	1248920-2	1.0	SBULK0:	DUSE
Is3c1514.d	1202068923	JLD1	15-MAR-2010 18:02	964382	1248920-2	1.0	SBULK0:LCS	DUSE
Is3c1515.d	1202067445	JLD1	15-MAR-2010 18:26	963684	110-2204	1.0	SBULK0:	DUSE
Is3c1516.d	1202067446	JLD1	15-MAR-2010 18:45	963684	110-2204	1.0	SBULK0:LCS	DUSE
Is3c1517.d	248197010	JLD1	15-MAR-2010 19:04	960459	110-2121	2.0	ILANL	DUSE; RR OF S3C1322; ISTD PASS
Is3c1518.d	248922004	JLD1	15-MAR-2010 19:23	964382	1248920-2	10.0	IBY	DUSE
Is3c1519.d	248922008	JLD1	15-MAR-2010 19:47	964382	1248920-2	10.0	IBY	DUSE; RR NEAT; SEE S3C1620

s3c1520.d	1248922012	JLD1	15-MAR-2010 20:10	964382	248920-2	10.0BY	DUSE; RR 2X; SEE S3C1621
s3c1521.d	1248922013	JLD1	15-MAR-2010 20:34	964382	248920-2	10.0BY	DUSE; RR NEAT; SEE S3C1622
s3c1522.d	1248922017	JLD1	15-MAR-2010 20:57	964382	248920-2	10.0BY	DUSE; RR NEAT; SEE S3C1623
s3c1523.d	1202068924	JLD1	15-MAR-2010 21:21	964382	248920-2	10.0MS	DUSE; RR NEAT; SEE S3C1624
s3c1524.d	1202068925	JLD1	15-MAR-2010 21:44	964382	248920-2	10.0MSD	DUSE; RR NEAT; SEE S3C1625
s3c1525.d	1248530001	JLD1	15-MAR-2010 22:08	963684	10-2204	1.0LANL	USE
s3c1526.d	1202067447	JLD1	15-MAR-2010 22:31	963684	10-2204	1.0MS	USE
s3c1527.d	1202067448	JLD1	15-MAR-2010 22:55	963684	10-2204	1.0MSD	USE
s3c1528.d	1248530002	JLD1	15-MAR-2010 23:18	963684	10-2204	1.0LANL	USE
s3c1529.d	1248530003	JLD1	15-MAR-2010 23:42	963684	10-2204	1.0LANL	USE
s3c1530.d	1248530004	JLD1	16-MAR-2010 00:06	963684	10-2204	1.0LANL	USE
s3c1531.d	1248530005	JLD1	16-MAR-2010 00:29	963684	10-2204	1.0LANL	USE
s3c1532.d	1248530006	JLD1	16-MAR-2010 00:53	963684	10-2204	1.0LANL	USE
s3c1533.d	1248530007	JLD1	16-MAR-2010 01:16	963684	10-2204	1.0LANL	USE
s3c1534.d	1248530008	JLD1	16-MAR-2010 01:39	963684	10-2204	1.0LANL	USE
s3c1535.d	1248530009	JLD1	16-MAR-2010 02:03	963684	10-2204	1.0LANL	USE
s3c1536.d	1248530010	JLD1	16-MAR-2010 02:26	963684	10-2204	1.0LANL	USE

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD6

DATE: 02/27/2010 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: WBN100207-01 Internal Std ID: WBN100217-01

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/s022710.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
Is6b2701.d	WBN100207-01	nagl	127-FEB-2010 10:53	DFTPP	Is022710	1.0	DFTPP	USE: 8270D AP/PEST/HEX
Is6b2701.d	WBN100207-01	nagl	127-FEB-2010 10:53	DFTPP	Is022710	1.0	DFTPP	USE: 8270C AP/PEST/HEX
Is6b2702.d	INST BLK	nagl	127-FEB-2010 11:05	----	Is022710	1.0	INST BLK	IB
Is6b2703.d	WBN100218-01	nagl	127-FEB-2010 11:28	110 PPM	Is123009	1.0	AP12	USE: LEV 2
Is6b2704.d	WBN100218-02	nagl	127-FEB-2010 11:52	120 PPM	Is123009	1.0	AP20	USE: LEV 3
Is6b2705.d	WBN100218-03.1	nagl	127-FEB-2010 12:16	140 PPM	Is022710	1.0	AP40	USE: LEV 4
Is6b2706.d	WBN100218-04	nagl	127-FEB-2010 12:41	150 PPM	Is123009	1.0	AP50	USE: LEV 5
Is6b2707.d	WBN100218-05	nagl	127-FEB-2010 13:05	180 PPM	Is123009	1.0	AP80	USE: LEV 6
Is6b2708.d	WBN100218-06	nagl	127-FEB-2010 13:30	1100 PPM	Is123009	1.0	AP100	USE: LEV 7
Is6b2709.d	WBN100218-07	nagl	127-FEB-2010 13:54	1120 PPM	Is123009	1.0	AP120	USE: LEV 8
Is6b2710.d	WBN100205-25	nagl	127-FEB-2010 14:18	110 PPM	Is123009	1.0	PEST10	USE: LEV 2
Is6b2711.d	WBN100205-24	nagl	127-FEB-2010 14:43	120 PPM	Is123009	1.0	PEST20	USE: LEV 3
Is6b2712.d	WBN100205-23.1	nagl	127-FEB-2010 15:06	140 PPM	Is022710	1.0	PEST40	USE: LEV 4
Is6b2713.d	WBN100205-22	nagl	127-FEB-2010 15:30	150 PPM	Is123009	1.0	PEST50	USE: LEV 5
Is6b2714.d	WBN100205-21	nagl	127-FEB-2010 15:55	180 PPM	Is123009	1.0	PEST80	USE: LEV 6
Is6b2715.d	WBN100205-20	nagl	127-FEB-2010 16:18	1100 PPM	Is123009	1.0	PEST100	USE: LEV 7
Is6b2716.d	WBN100205-19	nagl	127-FEB-2010 16:42	1120 PPM	Is123009	1.0	PEST120	USE: LEV 8
Is6b2717.d	WBN100120-16	nagl	127-FEB-2010 17:06	1500 PPM	Is123009	1.0	HEX500	USE: LEV 2
Is6b2718.d	WBN100120-15	nagl	127-FEB-2010 17:30	1000 PPM	Is123009	1.0	HEX1000	USE: LEV 3

s6b2719.d	| WBN100120-14	| nag1	| 27-FEB-2010 17:54	| 1250 PPM	| s022710	|	1.0|HEX1250	USE; LEV 4
s6b2720.d	| WBN100120-13	| nag1	| 27-FEB-2010 18:18	| 1500 PPM	| s123009	|	1.0|HEX1500	USE; LEV 5
s6b2721.d	| WBN100120-12	| nag1	| 27-FEB-2010 18:42	| 1750 PPM	| s123009	|	1.0|HEX1750	USE; LEV 6
s6b2722.d	| UBN090828-02.10	| nag1	| 27-FEB-2010 19:05	| 2000 PPM	| s123009	|	1.0|HEX2000	USE; LEV 7
s6b2723-D.d	| WBN100218-08.1	| nag1	| 27-FEB-2010 19:29	| 140 PPM	| s022710	|	1.0|APICV	USE; 8270D
s6b2723.d	| WBN100218-08.1	| nag1	| 27-FEB-2010 19:29	| 140 PPM	| s022710	|	1.0|APICV	USE; 8270C
s6b2724-D.d	| WBN100205-26.1	| nag1	| 27-FEB-2010 19:53	| 140 PPM	| s022710	|	1.0|PESTICV	USE; 8270D
s6b2724.d	| WBN100205-26.1	| nag1	| 27-FEB-2010 19:53	| 140 PPM	| s022710	|	1.0|PESTICV	USE; 8270C
s6b2725-D.d	| WBN100103-10.3	| nag1	| 27-FEB-2010 20:17	| 1250 PPM	| s022710	|	1.0|HEXICV	USE; 8270D
s6b2725.d	| WBN100103-10.3	| nag1	| 27-FEB-2010 20:17	| 1250 PPM	| s022710	|	1.0|HEXICV	USE; 8270C
s6b2726.d	| WBN100207-01	| nag1	| 27-FEB-2010 20:42	| DFTPP	| s022710	|	1.0|DFTPP	IDUSE
s6b2727.d	| INST BLK	| nag1	| 27-FEB-2010 20:56	| ----	| s022710	|	1.0|INST BLK	IDUSE
s6b2728.d	| UBN100127-01	| nag1	| 27-FEB-2010 21:20	| 110 PPM	| s022710	|	1.0|NEV010	IDUSE
s6b2729.d	| UBN100127-02	| nag1	| 27-FEB-2010 21:44	| 120 PPM	| s022710	|	1.0|NEV020	IDUSE
s6b2730.d	| UBN100127-03	| nag1	| 27-FEB-2010 22:07	| 40 PPM	| s022710	|	1.0|NEV040	IDUSE
s6b2731.d	| UBN100127-04	| nag1	| 27-FEB-2010 22:31	| 150 PPM	| s022710	|	1.0|NEV050	IDUSE
s6b2732.d	| UBN100127-05	| nag1	| 27-FEB-2010 22:54	| 180 PPM	| s022710	|	1.0|NEV080	IDUSE
s6b2733.d	| UBN100127-06	| nag1	| 27-FEB-2010 23:17	| 1100 PPM	| s022710	|	1.0|NEV100	IDUSE
s6b2734.d	| UBN100127-07	| nag1	| 27-FEB-2010 23:41	| 1120 PPM	| s022710	|	1.0|NEV120	IDUSE
s6b2735.d	| WBN100121-07	| nag1	| 28-FEB-2010 00:04	| 110 PPM	| s022710	|	1.0|BJCO010	IDUSE
s6b2736.d	| WBN100121-06	| nag1	| 28-FEB-2010 00:33	| 120 PPM	| s022710	|	1.0|BJCO020	IDUSE
s6b2737.d	| WBN100121-05	| nag1	| 28-FEB-2010 01:02	| 140 PPM	| s022710	|	1.0|BJCO040	IDUSE
s6b2738.d	| WBN100121-04	| nag1	| 28-FEB-2010 01:31	| 150 PPM	| s022710	|	1.0|BJCO052	IDUSE
s6b2739.d	| WBN100121-03	| nag1	| 28-FEB-2010 01:59	| 180 PPM	| s022710	|	1.0|BJCO080	IDUSE
s6b2740.d	| WBN100121-02	| nag1	| 28-FEB-2010 02:28	| 1100 PPM	| s022710	|	1.0|BJCO100	IDUSE
s6b2741.d	WBN100121-01	nag1	28-FEB-2010 02:57	1120 PPM	s022710		1.0 BJCO120	IDUSE

Data File: /chem/MSD3.i/s031310.b/s3c1327.d
Report Date: 14-Mar-2010 15:08

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GEL Laboratories LLC

Data file : /chem/MSD3.i/s031310.b/s3c1327.d
Lab Smp Id: 1202060171 Client Smp ID: WST36-10-8928MS
Inj Date : 13-MAR-2010 19:30
Operator : JLD1 Inst ID: MSD3.i
Smp Info : |1202060171|960459|2|SVMF|1|MS
Misc Info : |MSD8270_S|WBN100227-01|
Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
Als bottle: 27 QC Sample: MS
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 10-2125.sub
Target Version: 3.50
Processing Host: hpc1pl

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	2.12460	% 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	3.475	3.473	(1.000)	579283	40.0000	
* 29 Naphthalene-d8		136	4.326	4.329	(1.000)	2279621	40.0000	
* 46 Acenaphthene-d10		164	5.567	5.570	(1.000)	1182922	40.0000	
* 67 Phenanthrene-d10		188	6.594	6.592	(1.000)	1928931	40.0000	
* 91 Chrysene-d12		240	8.171	8.169	(1.000)	1133238	40.0000	
* 98 Perylene-d12		264	9.332	9.330	(1.000)	572146	40.0000	
\$ 3 2-Fluorophenol		112	2.689	2.682	(0.774)	411509	31.6102	2140
\$ 5 Phenol-d5		99	3.213	3.206	(0.925)	487151	31.8517	2160
\$ 20 Nitrobenzene-d5		82	3.834	3.837	(0.886)	220128	16.9623	1150
\$ 39 2-Fluorobiphenyl		172	5.069	5.073	(0.911)	533576	17.7291	1200
\$ 60 2,4,6-Tribromophenol		329	6.128	6.126	(1.101)	106564	39.2896	2660
\$ 81 p-Terphenyl-d14		244	7.524	7.522	(0.921)	476650	27.1353	1840

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ng/ul)	(ug/Kg)	
6 Phenol	94	3.219	3.217	(0.926)	258577	16.4244	1110	
8 2-Chlorophenol	128	3.342	3.340	(0.962)	258507	16.6575	1130	
11 1,4-Dichlorobenzene	146	3.486	3.484	(1.003)	267763	14.7973	1000	
17 N-Nitrosodipropylamine	70	3.711	3.719	(1.068)	161289	18.4472	1250(Q)	
28 1,2,4-Trichlorobenzene	180	4.278	4.281	(0.989)	213797	16.6439	1130	
33 4-Chloro-3-methylphenol	107	4.695	4.682	(1.085)	240212	21.0755	1430	
47 Acenaphthene	154	5.593	5.591	(1.005)	515484	17.6988	1200	
50 2,4-Dinitrotoluene	165	5.695	5.693	(1.023)	190190	19.6706	1330	
52 4-Nitrophenol	139	5.652	5.629	(1.015)	86631	20.0762	1360	
65 Pentachlorophenol	266	6.465	6.458	(0.981)	58848	20.0688	1360	
79 Pyrene	202	7.465	7.463	(0.914)	774959	23.6168	1600	
2 Pyridine	79	2.047	2.029	(0.589)	108962	10.6198	719	
4 Aniline	66	3.267	3.265	(0.940)	91884	13.8535	938	
7 bis(2-Chloroethyl) ether	63	3.288	3.286	(0.946)	171451	15.0881	1020	
9 1,3-Dichlorobenzene	146	3.438	3.441	(0.989)	251532	14.4908	981	
12 Benzyl alcohol	108	3.555	3.548	(1.023)	121793	13.3983	907	
13 1,2-Dichlorobenzene	146	3.582	3.586	(1.031)	249274	14.9679	1010	
14 bis(2-Chloroisopropyl) ether	45	3.625	3.623	(1.043)	510727	17.8118	1200	
15 o-Cresol	107	3.604	3.602	(1.037)	202365	18.5232	1250	
18 m,p-Cresols	107	3.700	3.703	(1.065)	280700	20.1970	1370	
19 Hexachloroethane	117	3.807	3.805	(1.095)	90913	13.1985	893	
21 Nitrobenzene	77	3.844	3.848	(0.889)	228957	17.8097	1200	
22 Isophorone	82	3.999	4.003	(0.925)	444100	18.8827	1280	
23 2-Nitrophenol	139	4.058	4.056	(0.938)	129670	16.6162	1120	
24 2,4-Dimethylphenol	122	4.064	4.062	(0.939)	244475	18.7868	1270	
25 bis(2-Chloroethoxy)methane	93	4.128	4.131	(0.954)	264277	17.6560	1200	
26 2,4-Dichlorophenol	162	4.219	4.217	(0.975)	211651	18.7969	1270	
27 Benzoic acid	105	4.117	4.120	(0.952)	75738	24.2498	1640	
30 Naphthalene	128	4.342	4.340	(1.004)	749421	16.5692	1120	
31 4-Chloroaniline	127	4.368	4.367	(1.010)	272053	15.5695	1050	
32 Hexachlorobutadiene	225	4.406	4.409	(1.019)	106807	16.2911	1100	
34 2-Methylnaphthalene	142	4.818	4.821	(1.114)	554474	18.8761	1280	
36 Hexachlorocyclopentadiene	237	4.919	4.923	(0.884)	18783	10.3536	701	
37 2,4,6-Trichlorophenol	196	5.016	5.014	(0.901)	155235	19.0849	1290	
38 2,4,5-Trichlorophenol	196	5.048	5.040	(0.907)	175714	19.0932	1290	
40 2-Chloronaphthalene	162	5.171	5.169	(0.929)	498584	18.3047	1240	
42 o-Nitroaniline	65	5.235	5.238	(0.940)	161569	20.7320	1400	
41 m-Nitroaniline	138	5.529	5.533	(0.993)	144867	20.6356	1400	
43 Dimethylphthalate	163	5.347	5.351	(0.961)	670774	21.2401	1440	
44 2,6-Dinitrotoluene	165	5.401	5.404	(0.970)	141665	18.6988	1260	
45 Acenaphthylene	152	5.470	5.468	(0.983)	878550	19.8571	1340	
48 2,4-Dinitrophenol	184	5.615	5.607	(1.009)	11210	15.6743	1060(aQ)	
49 Dibenzofuran	168	5.711	5.714	(1.026)	734836	19.9323	1350	
51 Diethylphthalate	149	5.845	5.848	(1.050)	744410	22.6373	1530	
53 Fluorene	166	5.957	5.960	(1.070)	629489	19.6915	1330	
54 4-Chlorophenylphenylether	204	5.946	5.944	(1.068)	281410	19.6197	1330	
55 2-Methyl-4,6-dinitrophenol	198	5.989	5.982	(0.908)	34716	12.9732	878	

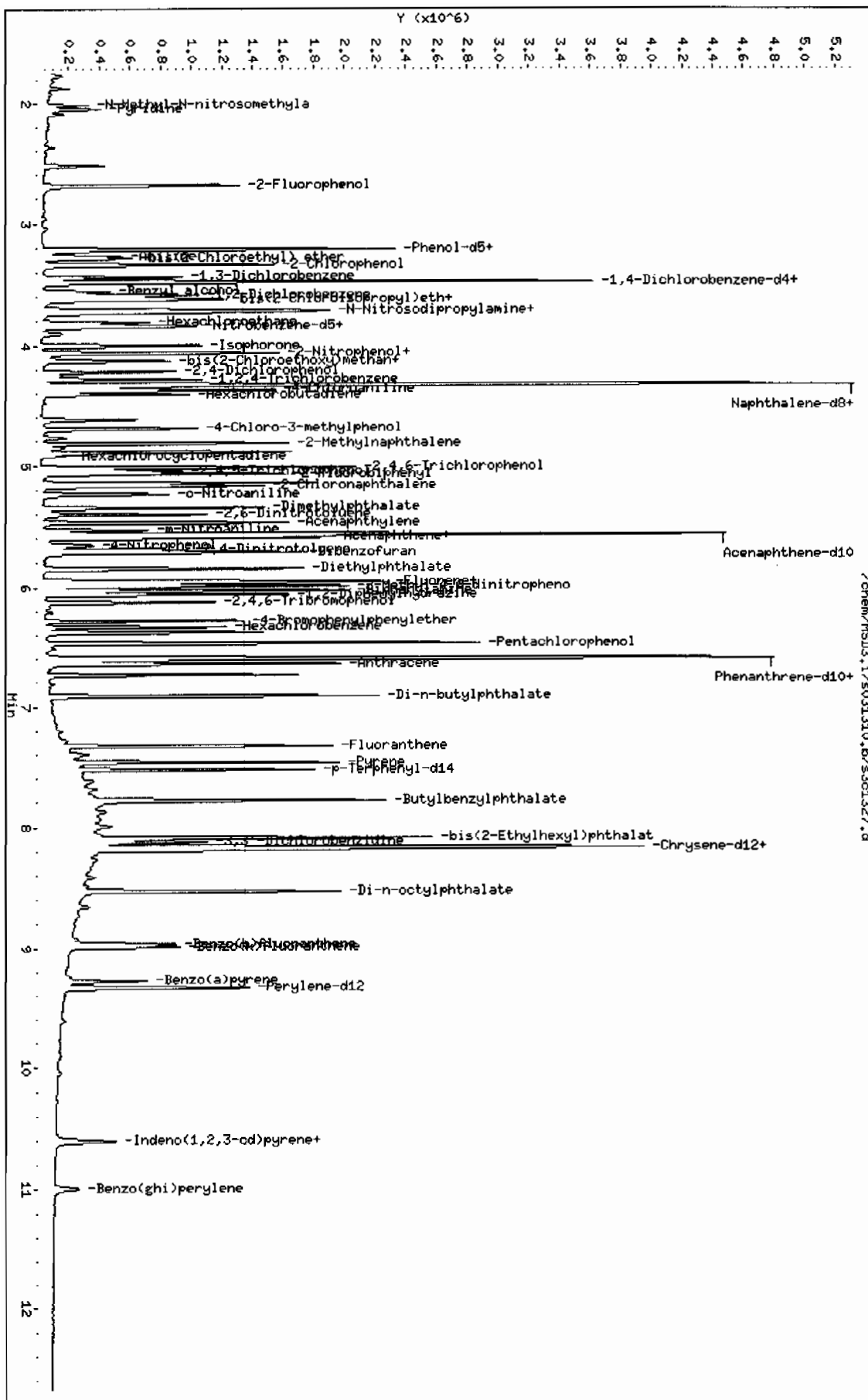
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
56 p-Nitroaniline		138	5.968	5.966	(1.072)	153293	27.5907	1870
133 Diphenylamine		169	6.027	6.025	(0.914)	563975	23.5419	1590
58 1,2-Diphenylhydrazine		77	6.059	6.057	(0.919)	645783	25.0185	1690
61 4-Bromophenylphenylether		248	6.283	6.281	(0.953)	143516	20.4250	1380
63 Hexachlorobenzene		284	6.331	6.329	(0.960)	141526	20.3262	1380
68 Phenanthrene		178	6.610	6.608	(1.002)	912576	20.8853	1410
69 Anthracene		178	6.642	6.640	(1.007)	901803	21.0796	1430
72 Di-n-butylphthalate		149	6.909	6.912	(1.048)	1245461	25.1990	1700
76 Fluoranthene		202	7.326	7.324	(1.111)	786269	19.8662	1340
85 Butylbenzylphthalate		149	7.781	7.779	(0.952)	493346	29.6667	2010
89 Benzo(a)anthracene		228	8.161	8.159	(0.999)	600453	22.8154	1540
90 3,3'-Dichlorobenzidine		252	8.123	8.123	(0.994)	154486	20.7929	1410
92 Chrysene		228	8.187	8.185	(1.002)	513042	19.0655	1290
93 bis(2-Ethylhexyl)phthalate		149	8.091	8.089	(0.990)	687870	30.9027	2090
94 Di-n-octylphthalate		149	8.524	8.528	(0.913)	1012184	43.0007	2910 (R)
95 Benzo(b)fluoranthene		252	8.968	8.966	(0.961)	364515	25.1000	1700
96 Benzo(k)fluoranthene		252	8.990	8.988	(0.963)	350821	22.3643	1510
97 Benzo(a)pyrene		252	9.279	9.277	(0.994)	264622	21.2111	1440
99 Indeno(1,2,3-cd)pyrene		276	10.600	10.603	(1.136)	168994	15.7101	1060
100 Dibenzo(a,h)anthracene		278	10.605	10.608	(1.136)	142286	16.2528	1100
101 Benzo(ghi)perylene		276	10.995	10.993	(1.178)	122312	13.8409	937
1 N-Methyl-N-nitrosomethylamine		74	2.015	2.002	(0.580)	90781	13.4553	911

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/MSD3.1/s031310.b/s031327.d
 Date: 13-MAR-2010 19:30
 Client ID: MST36-10-8928MS
 Sample Info: 112020601711960459121SWH111HS
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD3.1
 Operator: JLD1
 Column diameter: 0.20



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Data file : /chem/MSD3.i/s031310.b/s3c1328.d
 Lab Smp Id: 1202060172 Client Smp ID: WST36-10-8928MSD
 Inj Date : 13-MAR-2010 19:49
 Operator : JLD1 Inst ID: MSD3.i
 Smp Info : |1202060172|960459|2|SVMF|1|MSD
 Misc Info : |MSD8270_S|WBN100227-01|
 Comment : Column: J&W DB-5MS, 25 m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD3.i/s031310.b/MSD3-8270R-AQA-030910.m
 Meth Date : 14-Mar-2010 14:28 jen00986 Quant Type: ISTD
 Cal Date : 10-MAR-2010 05:53 Cal File: s3c0957.d
 Als bottle: 28 QC Sample: MSD
 Dil Factor: 2.00000
 Integrator: HP RTE Compound Sublist: 10-2125.sub
 Target Version: 3.50
 Processing Host: hpc1p1

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

Name	Value	Description
DF	2.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.05000	weight of sample
M	2.12460	% 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	3.475	3.473	(1.000)	636670	40.0000	
* 29 Naphthalene-d8	136	4.326	4.329	(1.000)	2509698	40.0000	
* 46 Acenaphthene-d10	164	5.566	5.570	(1.000)	1288731	40.0000	
* 67 Phenanthrene-d10	188	6.593	6.592	(1.000)	2121831	40.0000	
* 91 Chrysene-d12	240	8.171	8.169	(1.000)	1189346	40.0000	
* 98 Perylene-d12	264	9.332	9.330	(1.000)	591130	40.0000	
\$ 3 2-Fluorophenol	112	2.689	2.682	(0.774)	483108	33.7651	2300
\$ 5 Phenol-d5	99	3.208	3.206	(0.923)	552334	32.8585	2230
\$ 20 Nitrobenzene-d5	82	3.833	3.837	(0.886)	250448	17.5295	1190
\$ 39 2-Fluorobiphenyl	172	5.069	5.073	(0.911)	554134	16.9004	1150
\$ 60 2,4,6-Tribromophenol	329	6.128	6.126	(1.101)	97434	32.9740	2240
\$ 81 p-Terphenyl-d14	244	7.524	7.522	(0.921)	433255	23.5013	1600

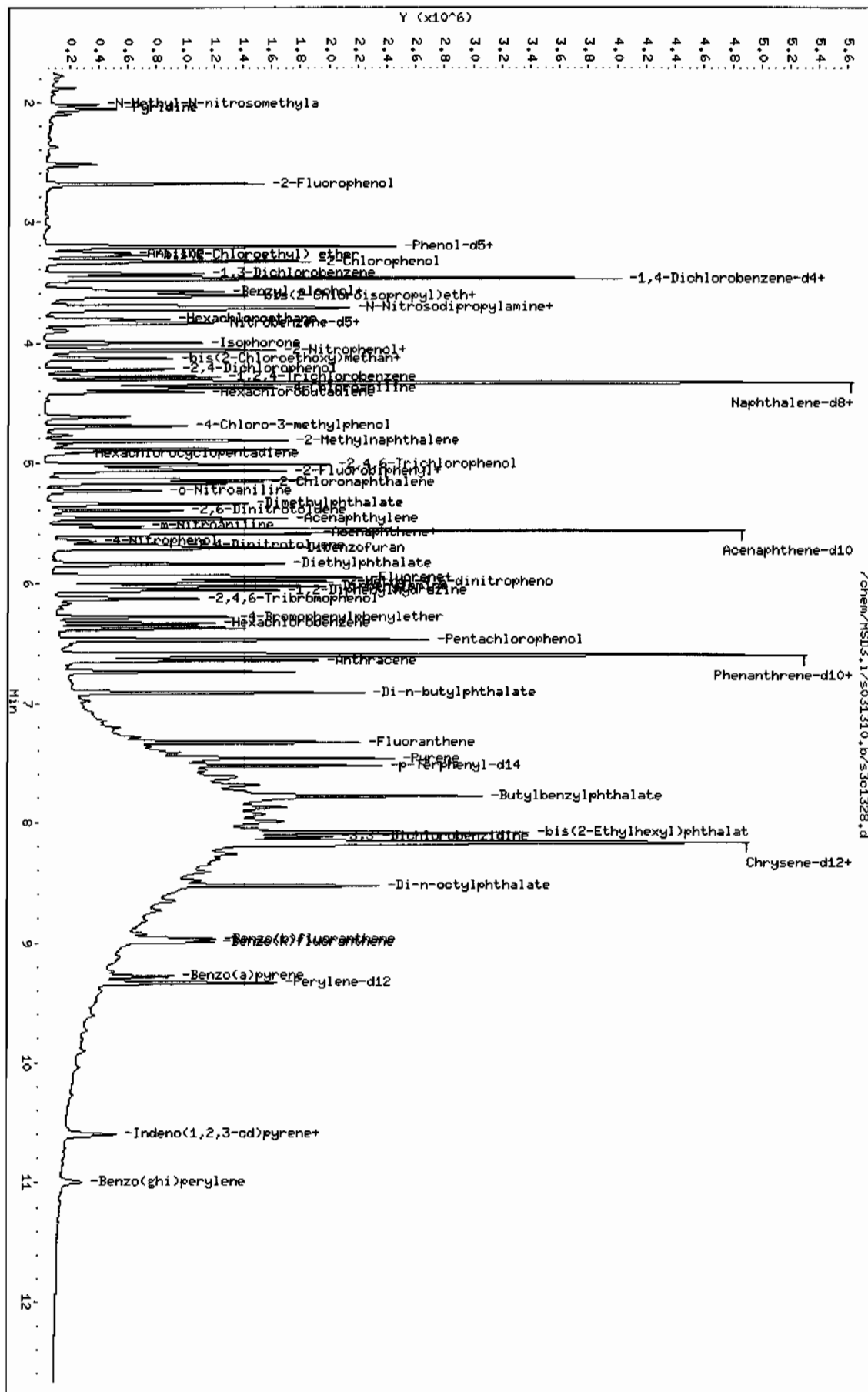
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	3.218	3.217	(0.926)	296980	17.1634	1170
8 2-Chlorophenol	128	3.341	3.340	(0.962)	300697	17.6297	1200
11 1,4-Dichlorobenzene	146	3.486	3.484	(1.003)	320017	16.0910	1090
17 N-Nitrosodipropylamine	70	3.710	3.719	(1.068)	180410	18.7743	1280 (Q)
28 1,2,4-Trichlorobenzene	180	4.277	4.281	(0.989)	245811	17.3818	1180
33 4-Chloro-3-methylphenol	107	4.695	4.682	(1.085)	238228	18.9853	1290
47 Acenaphthene	154	5.593	5.591	(1.005)	526330	16.5875	1130
50 2,4-Dinitrotoluene	165	5.695	5.693	(1.023)	181021	17.1851	1170
52 4-Nitrophenol	139	5.657	5.629	(1.016)	77097	17.3750	1180
65 Pentachlorophenol	266	6.465	6.458	(0.981)	53187	17.6718	1200
79 Pyrene	202	7.465	7.463	(0.914)	712592	20.6917	1410
2 Pyridine	79	2.058	2.029	(0.592)	143163	12.6955	863
4 Aniline	66	3.266	3.265	(0.940)	106184	14.5665	990
7 bis(2-Chloroethyl) ether	63	3.283	3.286	(0.945)	204278	16.3566	1110
9 1,3-Dichlorobenzene	146	3.438	3.441	(0.989)	305861	16.0324	1090
12 Benzyl alcohol	108	3.561	3.548	(1.025)	98615	9.87067	671 (a)
13 1,2-Dichlorobenzene	146	3.582	3.586	(1.031)	296381	16.1924	1100
14 bis(2-Chloroisopropyl) ether	45	3.619	3.623	(1.042)	594806	18.8743	1280
15 o-Cresol	107	3.603	3.602	(1.037)	227708	18.9642	1290
18 m,p-Cresols	107	3.705	3.703	(1.066)	314443	20.5855	1400
19 Hexachloroethane	117	3.807	3.805	(1.095)	111055	14.6694	998
21 Nitrobenzene	77	3.844	3.848	(0.889)	265441	18.7547	1280
22 Isophorone	82	3.999	4.003	(0.925)	474594	18.3294	1250
23 2-Nitrophenol	139	4.058	4.056	(0.938)	147358	17.1517	1170
24 2,4-Dimethylphenol	122	4.063	4.062	(0.939)	258646	18.0536	1230
25 bis(2-Chloroethoxy)methane	93	4.128	4.131	(0.954)	295551	17.9352	1220
26 2,4-Dichlorophenol	162	4.219	4.217	(0.975)	224917	18.1439	1230
27 Benzoic acid	105	4.117	4.120	(0.952)	70610	23.0079	1560
30 Naphthalene	128	4.342	4.340	(1.004)	857080	17.2123	1170
31 4-Chloroaniline	127	4.368	4.367	(1.010)	280685	14.5909	992
32 Hexachlorobutadiene	225	4.406	4.409	(1.019)	127625	17.6819	1200
34 2-Methylnaphthalene	142	4.818	4.821	(1.114)	600392	18.5655	1260
36 Hexachlorocyclopentadiene	237	4.919	4.923	(0.884)	30320	12.4459	846
37 2,4,6-Trichlorophenol	196	5.016	5.014	(0.901)	147985	16.6998	1140
38 2,4,5-Trichlorophenol	196	5.048	5.040	(0.907)	179936	17.9466	1220
40 2-Chloronaphthalene	162	5.171	5.169	(0.929)	509771	17.1789	1170
42 o-Nitroaniline	65	5.235	5.238	(0.940)	158404	18.6571	1270
41 m-Nitroaniline	138	5.529	5.533	(0.993)	139184	18.1983	1240
43 Dimethylphthalate	163	5.347	5.351	(0.961)	642908	18.6863	1270
44 2,6-Dinitrotoluene	165	5.401	5.404	(0.970)	137921	16.7099	1140
45 Acenaphthylene	152	5.470	5.468	(0.983)	877685	18.2088	1240
48 2,4-Dinitrophenol	184	5.615	5.607	(1.009)	11999	15.6245	1060 (aQ)
49 Dibenzofuran	168	5.711	5.714	(1.026)	718589	17.8913	1220
51 Diethylphthalate	149	5.845	5.848	(1.050)	694908	19.3970	1320
53 Fluorene	166	5.957	5.960	(1.070)	608593	17.4747	1190
54 4-Chlorophenylphenylether	204	5.946	5.944	(1.068)	275461	17.6282	1200
55 2-Methyl-4,6-dinitrophenol	198	5.989	5.982	(0.908)	32891	11.9676	814

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	5.968	5.966	(1.072)	148314	25.2987	1720
133 Diphenylamine	169	6.026	6.025	(0.914)	538356	20.4295	1390
58 1,2-Diphenylhydrazine	77	6.058	6.057	(0.919)	615663	21.6832	1470
61 4-Bromophenylphenylether	248	6.283	6.281	(0.953)	136148	17.6148	1200
63 Hexachlorobenzene	284	6.331	6.329	(0.960)	131661	17.1903	1170
68 Phenanthrene	178	6.609	6.608	(1.002)	870486	18.1109	1230
69 Anthracene	178	6.641	6.640	(1.007)	839152	17.8319	1210
72 Di-n-butylphthalate	149	6.909	6.912	(1.048)	1140325	20.9743	1430
76 Fluoranthene	202	7.326	7.324	(1.111)	727733	16.7156	1140
85 Butylbenzylphthalate	149	7.781	7.779	(0.952)	438568	25.1285	1710
89 Benzo(a)anthracene	228	8.161	8.159	(0.999)	530951	19.2228	1310
90 3,3'-Dichlorobenzidine	252	8.123	8.123	(0.994)	136084	17.4520	1190
92 Chrysene	228	8.187	8.185	(1.002)	463629	16.4165	1120
93 bis(2-Ethylhexyl)phthalate	149	8.091	8.089	(0.990)	622655	26.6532	1810
94 Di-n-octylphthalate	149	8.530	8.528	(0.914)	868567	35.7144	2430
95 Benzo(b)fluoranthene	252	8.968	8.966	(0.961)	303164	20.2051	1370
96 Benzo(k)fluoranthene	252	8.990	8.988	(0.963)	321673	19.8476	1350
97 Benzo(a)pyrene	252	9.278	9.277	(0.994)	235330	18.2574	1240
99 Indeno(1,2,3-cd)pyrene	276	10.599	10.603	(1.136)	153877	13.8453	941
100 Dibenzo(a,h)anthracene	278	10.605	10.608	(1.136)	126068	13.9378	948
101 Benzo(ghi)perylene	276	10.995	10.993	(1.178)	109386	11.9806	815
1 N-Methyl-N-nitrosomethylamine	74	2.020	2.002	(0.581)	109863	14.8158	1010

QC Flag Legend

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

Instrument: MSD3.i
Operator: JLD1
Column diameter: 0.20



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2121**

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: 958640

Prep Batch Number: 958637

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
248197001	RE36-10-7405
248197002	RE36-10-7403
248197003	RE36-10-7406
248197004	RE36-10-7404
248197005	RE36-10-7516
248197007	RE36-10-7426
248197008	RE36-10-7432
248197009	RE36-10-7431
248197010	RE36-10-7434
248197011	RE36-10-7425
248197012	RE36-10-7429
248197013	RE36-10-7433
1202055940	Method Blank (MB)
1202055941	Laboratory Control Sample (LCS)
1202055942	248197001(RE36-10-7405) Matrix Spike (MS)
1202055943	248197001(RE36-10-7405) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

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 248197001 (RE36-10-7405) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered Tetryl at 26.1%. The recovery limits are 36-124%. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. The LCS met acceptance criteria; therefore, the data are reported. Please see data exception report 811218.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Tetryl at 24.3%. The recovery limits are 36-124%. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. The LCS met acceptance criteria; therefore, the data are reported. Please see data exception report 811218.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Samples 248197002(RE36-10-7403) and 1202055943 (RE36-10-7405MSD) failed ISTD acceptance criteria. They were re-analyzed and passed acceptance criteria. The last re-analysis is reported.

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 248197001 (RE36-10-7405) 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 report 811218 was generated for this SDG.

The MS recovered Tetra at 26.1%. The MSD recovered Tetra at 24.3%. The recovery limits are 36-124%. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. The LCS met acceptance criteria; therefore, the data are reported.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

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

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

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

Reviewer: Robert N. Moore Date: 04/02/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323063a

Date Analyzed: 24-MAR-10 15:37

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160158.wiff

Date Analyzed: 18-MAR-10 01:23

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Moisture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0326058a

Date Analyzed: 27-MAR-10 18:44

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Moisture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160161.wiff

Date Analyzed: 18-MAR-10 02:11

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323067a

Date Analyzed: 24-MAR-10 17:35

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160162.wiff

Date Analyzed: 18-MAR-10 02:26

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323068a

Date Analyzed: 24-MAR-10 18:05

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160163.wiff

Date Analyzed: 18-MAR-10 02:42

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323069a

Date Analyzed: 24-MAR-10 18:34

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160164.wiff

Date Analyzed: 18-MAR-10 02:58

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323070a

Date Analyzed: 24-MAR-10 19:04

Units: ug/kg

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

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160165.wiff

Date Analyzed: 18-MAR-10 03:13

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Moisture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323071a

Date Analyzed: 24-MAR-10 19:33

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Moisture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160166.wiff

Date Analyzed: 18-MAR-10 03:29

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
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323072a

Date Analyzed: 24-MAR-10 20:03

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>		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160167.wiff

Date Analyzed: 18-MAR-10 03:45

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323076a

Date Analyzed: 24-MAR-10 22:01

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160171.wiff

Date Analyzed: 18-MAR-10 04:48

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323077a

Date Analyzed: 24-MAR-10 22:30

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160172.wiff

Date Analyzed: 18-MAR-10 05:03

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323078a

Date Analyzed: 24-MAR-10 23:00

Units: ug/kg

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

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160173.wiff

Date Analyzed: 18-MAR-10 05:19

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323079a

Date Analyzed: 24-MAR-10 23:29

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160174.wiff

Date Analyzed: 18-MAR-10 05:35

Units: ug/kg

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

*Concentration =

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

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
248197001	RE36-10-7405	107	70 - 144	
248197001	RE36-10-7405	99.6	70 - 144	
248197002	RE36-10-7403	103	70 - 144	
248197002	RE36-10-7403	96.8	70 - 144	
248197003	RE36-10-7406	93.2	70 - 144	
248197003	RE36-10-7406	102	70 - 144	
248197004	RE36-10-7404	109	70 - 144	
248197004	RE36-10-7404	104	70 - 144	
248197005	RE36-10-7516	104	70 - 144	
248197005	RE36-10-7516	100	70 - 144	
248197007	RE36-10-7426	114	70 - 144	
248197007	RE36-10-7426	99.6	70 - 144	
248197008	RE36-10-7432	113	70 - 144	
248197008	RE36-10-7432	104	70 - 144	
248197009	RE36-10-7431	106	70 - 144	
248197009	RE36-10-7431	102	70 - 144	
248197010	RE36-10-7434	102	70 - 144	
248197010	RE36-10-7434	98.4	70 - 144	
248197011	RE36-10-7425	98.3	70 - 144	
248197011	RE36-10-7425	100	70 - 144	
248197012	RE36-10-7429	105	70 - 144	
248197012	RE36-10-7429	104	70 - 144	
248197013	RE36-10-7433	102	70 - 144	
248197013	RE36-10-7433	102	70 - 144	
1202055940	MB for batch 958637	108	70 - 144	
1202055940	MB for batch 958637	99.6	70 - 144	
1202055941	LCS for batch 958637	104	70 - 144	
1202055941	LCS for batch 958637	95.6	70 - 144	
1202055942	RE36-10-7405(248197001MS)	105	70 - 144	
1202055942	RE36-10-7405(248197001MS)	99.6	70 - 144	
1202055943	RE36-10-7405(248197001MSD)	105	70 - 144	
1202055943	RE36-10-7405(248197001MSD)	102	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) 10-2121

Extract Batch Code: 958637

Date Extracted: 04-MAR-10

GEL LCS ID: 1202055941

GEL LCSDUP ID:

Analysis Date/Time: 24-MAR-10 09:43

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
1,3,5-Trinitrobenzene	5000	4370	87.4					69 – 126
2,4,6-Trinitrotoluene	5000	4770	95.4					73 – 149
2,4-Dinitrotoluene	5000	5020	100					87 – 137
2,6-Dinitrotoluene	5000	4810	96.2					89 – 120
2-Amino-4,6-dinitrotoluene	5000	5160	103					90 – 130
4-Amino-2,6-dinitrotoluene	5000	5070	101					84 – 130
HMX	5000	4870	97.3					58 – 138
Nitrobenzene	5000	4520	90.4					71 – 122
PETN	5000	5300	106					64 – 137
RDX	5000	5240	105					81 – 137
Tetryl	5000	2700	54					51 – 112
m-Dinitrobenzene	5000	4820	96.5					83 – 122
m-Nitrotoluene	5000	4550	91					73 – 118
o-Nitrotoluene	5000	4460	89.3					72 – 119
p-Nitrotoluene	5000	4870	97.3					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) 10-2121

Extract Batch Code: 958637

Date Extracted: 04-MAR-10

GEL LCS ID: 1202055941

GEL LCSDUP ID:

Analysis Date/Time: 17-MAR-10 22:46

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	4930	98.6					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5300	106					64 - 122
3,5-Dinitroaniline	5000	4960	99.2					70 - 127
tris(o-cresyl) phosphate	5000	5310	106					84 - 119
TATB	5000	5330	107					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: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Extract Batch Code: 958637

Date Extracted: 04-MAR-10

GEL Spike ID: 1202055942

GEL SpikeDup ID: 1202055943

Analysis Date/Time: 24-MAR-10 16:07

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-Amino-4,6-dinitrotoluene	5000	0	5160	103	5170	103	.105	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	4950	99	5000	100	1.04	30	72 - 143
HMX	5000	0	5160	103	5080	102	1.61	30	51 - 144
Nitrobenzene	5000	0	4170	83.5	4260	85.2	2.02	30	70 - 122
2,6-Dinitrotoluene	5000	0	4750	95	4760	95.1	.106	30	90 - 118
2,4-Dinitrotoluene	5000	0	4750	95.1	4980	99.6	4.68	30	86 - 135
2,4,6-Trinitrotoluene	5000	0	4230	84.5	4860	97.2	14	30	76 - 144
1,3,5-Trinitrobenzene	5000	0	4140	82.9	4120	82.3	.656	30	50 - 140
PETN	5000	0	5370	107	4840	96.9	10.3	30	60 - 140
RDX	5000	0	5050	101	4950	99	2	30	59 - 152
Tetryl	5000	0	1300	26.1 *	1210	24.3 *	7.09	30	36 - 124
m-Dinitrobenzene	5000	0	4710	94.3	4660	93.2	1.15	30	85 - 118
m-Nitrotoluene	5000	0	4890	97.8	4210	84.3	14.9	30	70 - 120
o-Nitrotoluene	5000	0	4670	93.4	4420	88.5	5.36	30	69 - 123
p-Nitrotoluene	5000	0	5040	101	4140	82.7	19.7	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: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Extract Batch Code: 958637

Date Extracted: 04-MAR-10

GEL Spike ID: 1202055942

GEL SpikeDup ID: 1202055943

Analysis Date/Time: 18-MAR-10 01:39

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	3410	68.2	3090	61.8	9.85	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4600	92	4450	89	3.32	30	55 - 130
TATB	5000	0	4920	98.4	4770	95.4	3.1	30	29 - 155
3,5-Dinitroaniline	5000	0	4550	91	4550	91	0	30	73 - 129
tris(o-cresyl) phosphate	5000	0	5280	106	5350	107	1.32	30	72 - 127

#Column to be used to flag recovery and RPD values with an asterisk

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:08

GEL Data File: EXP0323001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	229.482
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	228.802
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0

Printed: Wed Mar 24 09:32:17 2010, Page 1 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010

Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323001a

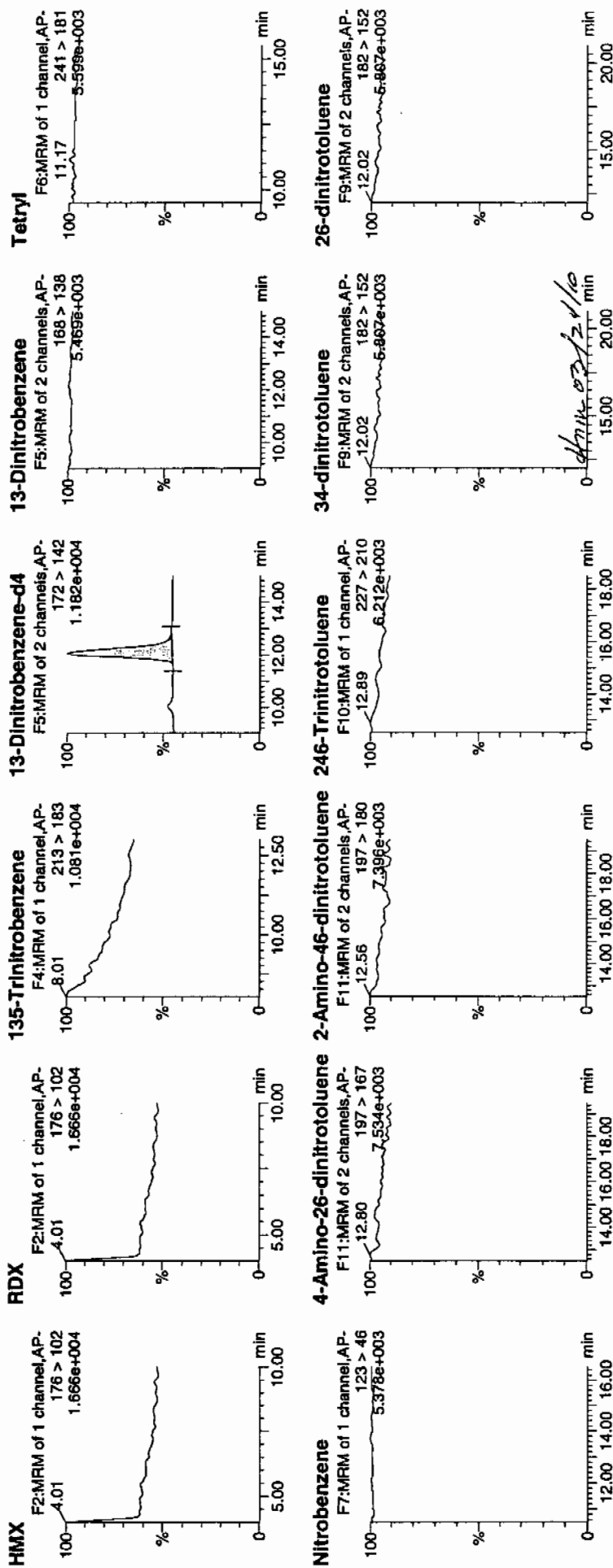
Date: 23-Mar-2010

Time: 09:08:58

ID: XIBLK01

Vial: 1:1,A

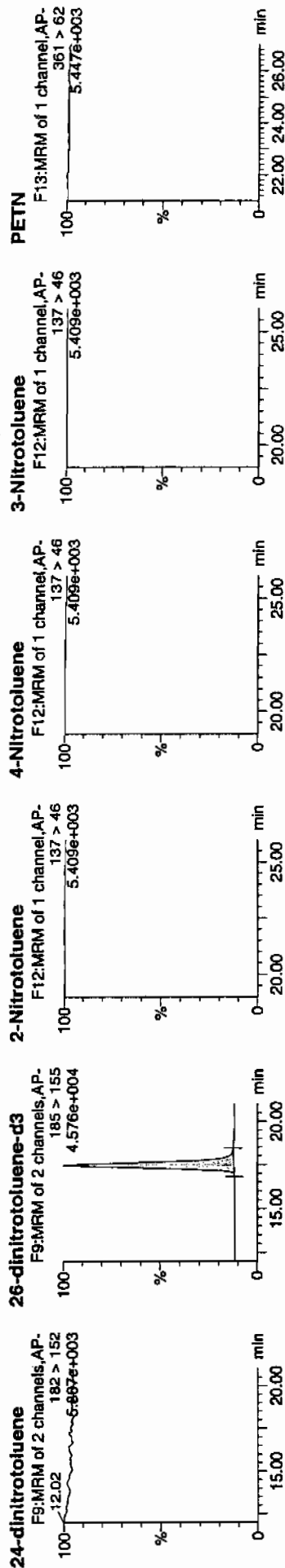
1071
31410



Printed: Wed Mar 24 09:32:17 2010, Page 2 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod.Date	Mod.Time	%Rec	%Dev	SYN
XIBLK01	HMX	176 > 102		2526.262								
XIBLK01	RDX	176 > 102		2526.262								
XIBLK01	135-Trinitrobenzene	213 > 183		2526.262								
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.07	2526.262		2526.262	bb			45.9	-54.1	223.1
XIBLK01	13-Dinitrobenzene	168 > 138		2526.262								
XIBLK01	Tetryl	241 > 181		2526.262								
XIBLK01	Nitrobenzene	123 > 46		2526.262								
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		15755.593								
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		15755.593								
XIBLK01	246-Trinitrotoluene	227 > 210		15755.593								
XIBLK01	34-dinitrotoluene	182 > 152		15755.593								
XIBLK01	26-dinitrotoluene	182 > 152		15755.593								
XIBLK01	24-dinitrotoluene	182 > 152		15755.593								
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.47	15755.593		15755.593	bb			45.8	-54.2	1652.1
XIBLK01	2-Nitrotoluene	137 > 46		15755.593								
XIBLK01	4-Nitrotoluene	137 > 46		15755.593								
XIBLK01	3-Nitrotoluene	137 > 46		15755.593								
XIBLK01	PETN	361 > 62		15755.593								

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:38

GEL Data File: EXP0323002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	249.294
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	247.4
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Printed: Wed Mar 24 09:32:17 2010, Page 3 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP03230002a

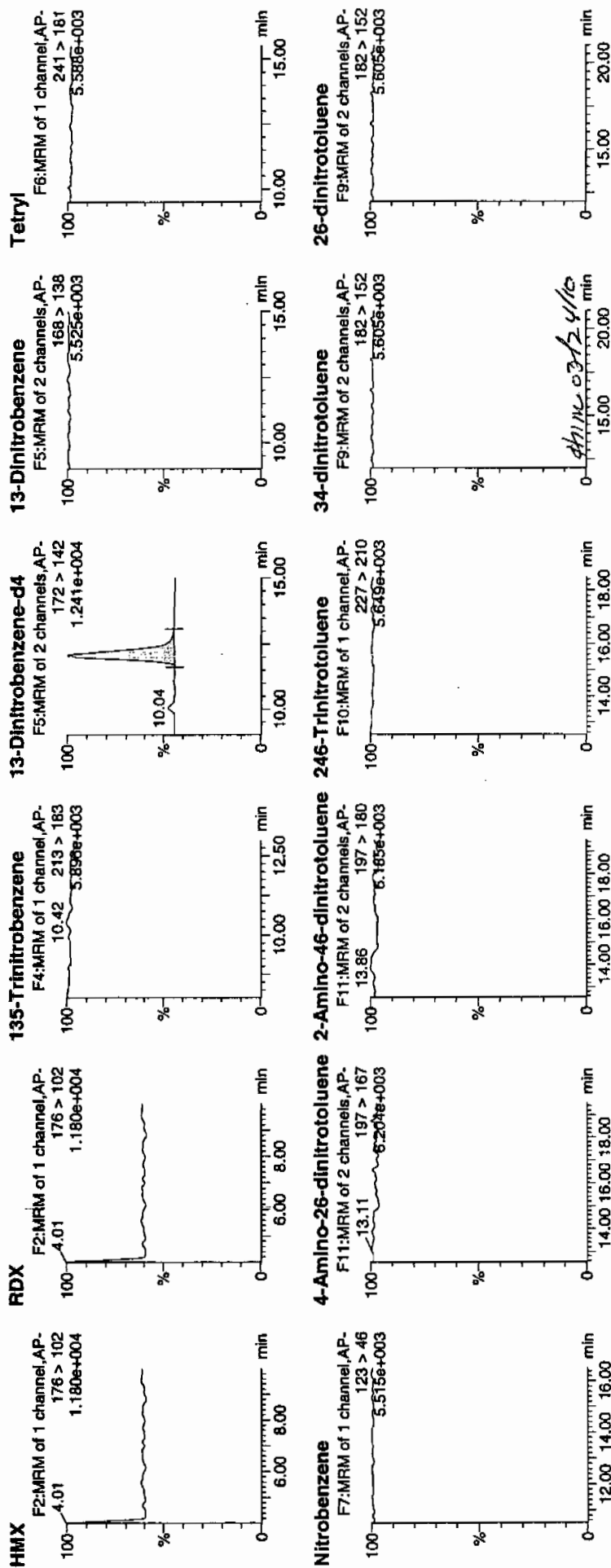
Date: 23-Mar-2010

Time: 09:38:34

ID: XIBLK01

Vial: 1:1,A

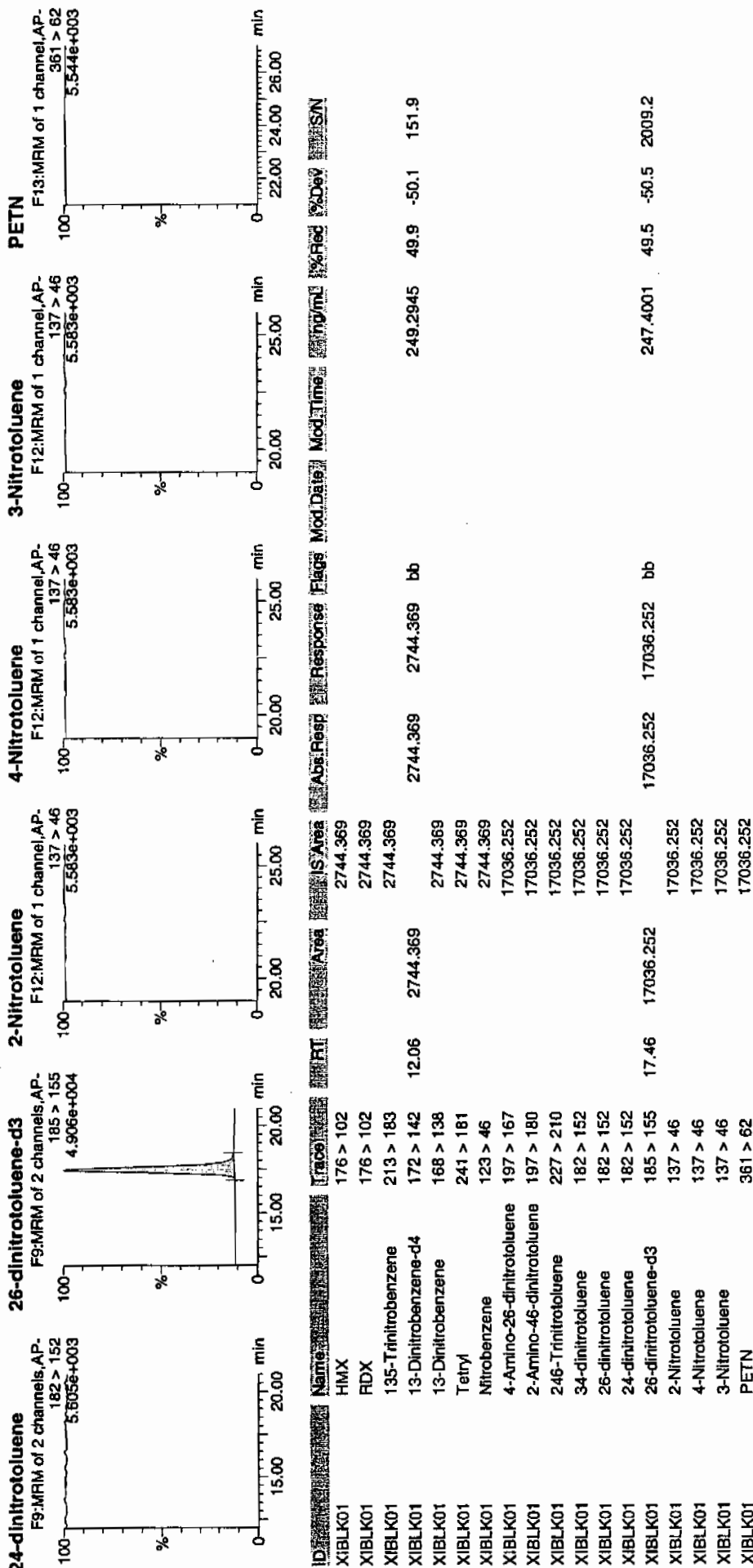
WFI
3/24/10



Printed: Wed Mar 24 09:32:17 2010, Page 4 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 26-MAR-10 14:43

GEL Data File: EXP0326001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	518.168
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	529.324
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032610expa.mdb, Time: Sat Mar 27 11:54:14 2010
Calibration: Untitled, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326001a

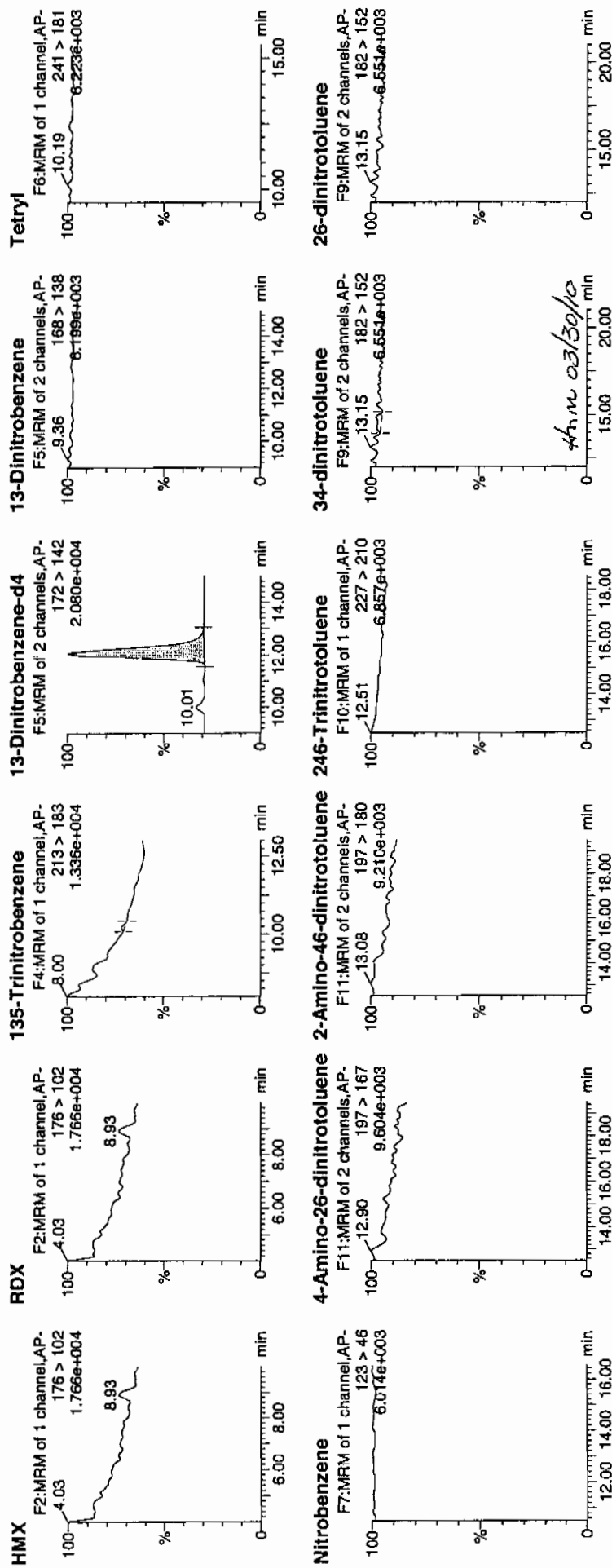
Date: 26-Mar-2010

Time: 14:43:25

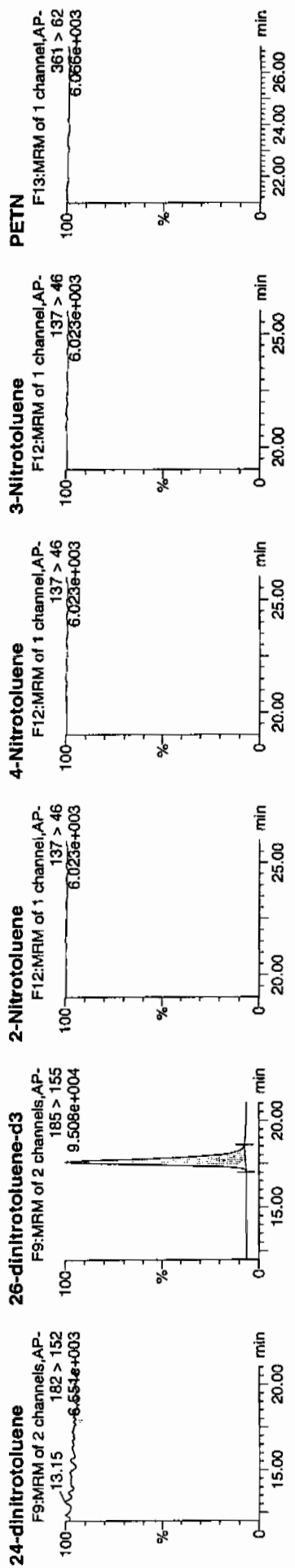
ID: XIBLK01

Vial: 1:1,A

WMT
2/24/10



Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qid, Time: Sat Mar 27 12:12:14 2010



ID	Name	RT	Area	IS Area	Abn Resp	Flags	Mod Date	Mod Time	Conc (ppm)	%Rec	%Dev	IS/N
XIBLK01	HMX	176 > 102	6339.675	6339.675								
XIBLK01	RDX	176 > 102	6339.675	6339.675								
XIBLK01	135-Trinitrobenzene	213 > 183	6339.675	6339.675			MM- 27-Mar-10	11:57:31				
XIBLK01	13-Dinitrobenzene-d4	172 > 142	6339.675	6339.675		bb			518.1683	103.6	3.6	558.5
XIBLK01	13-Dinitrobenzene	168 > 138	6339.675	6339.675								
XIBLK01	Tetryl	241 > 181	6339.675	6339.675								
XIBLK01	Nitrobenzene	123 > 46	6339.675	6339.675								
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167	38863.164	38863.164								
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180	38863.164	38863.164								
XIBLK01	246-Trinitrotoluene	227 > 210	38863.164	38863.164			MM- 27-Mar-10	12:02:48				
XIBLK01	34-dinitrotoluene	182 > 152	38863.164	38863.164								
XIBLK01	26-dinitrotoluene	182 > 152	38863.164	38863.164								
XIBLK01	24-dinitrotoluene	182 > 152	38863.164	38863.164								
XIBLK01	26-dinitrotoluene-d3	185 > 155	38863.164	38863.164		bb			529.3244	105.9	5.9	2184.2
XIBLK01	2-Nitrotoluene	137 > 46	38863.164	38863.164								
XIBLK01	4-Nitrotoluene	137 > 46	38863.164	38863.164								
XIBLK01	3-Nitrotoluene	137 > 46	38863.164	38863.164								
XIBLK01	PETN	361 > 62	38863.164	38863.164								

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 26-MAR-10 15:12

GEL Data File: EXP0326002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	506.797
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	650.438

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326002a

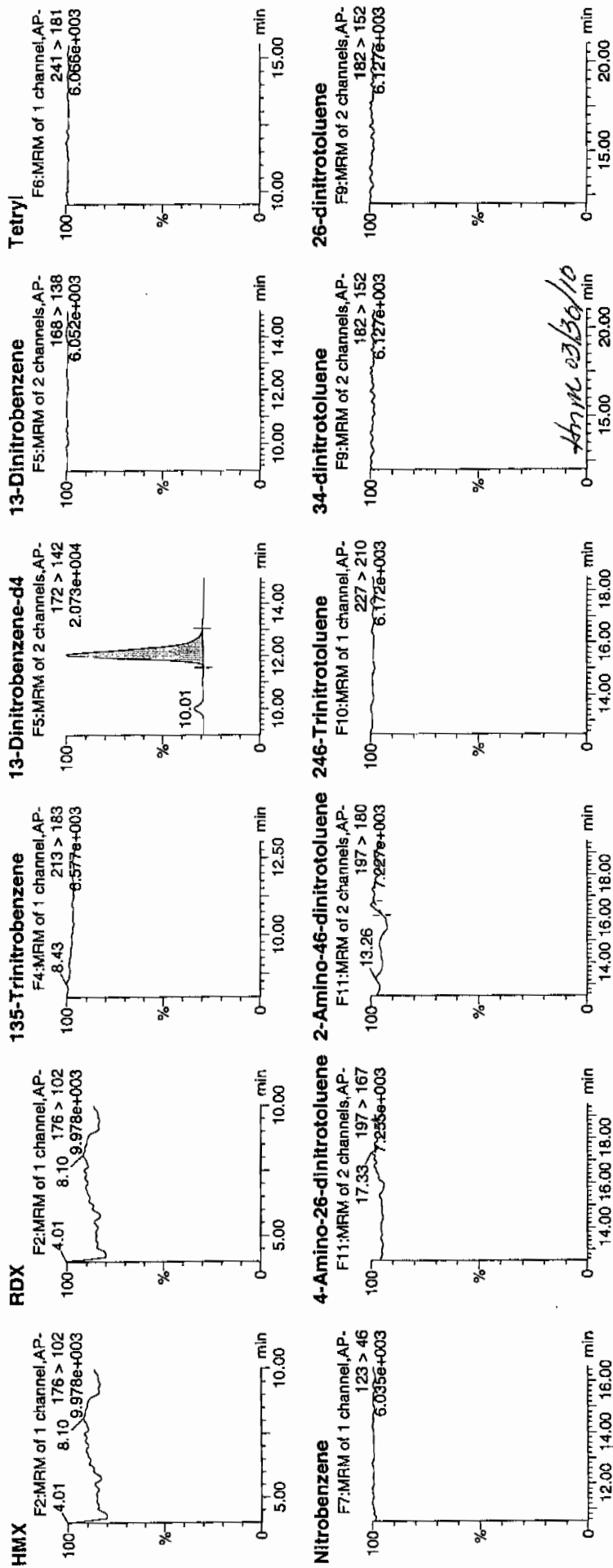
Date: 26-Mar-2010

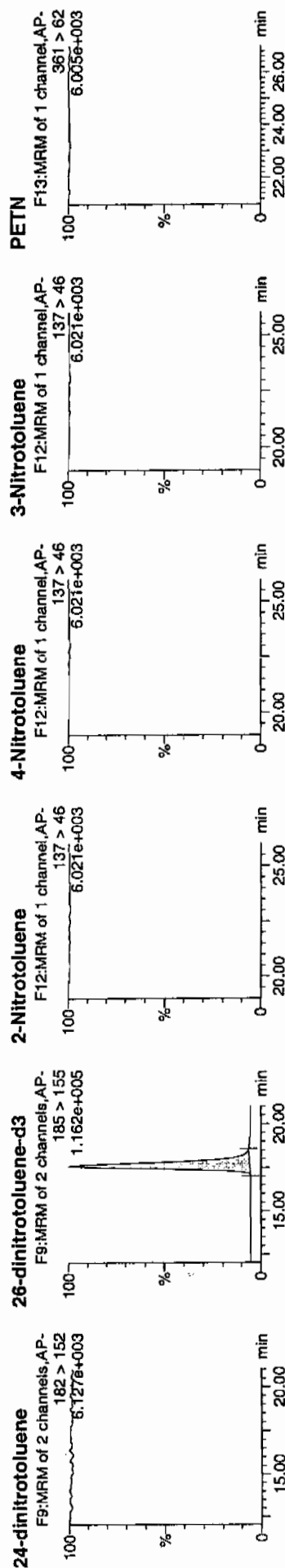
Time: 15:12:54

ID: XIBLK01

Vial: 1:1,A

10.01
10.01



[illegible]

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-MAR-10 08:17

GEL Data File: EXS03160001.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 3/18/10

Sample Name: 'XBLK01' Sample ID: 'JILER' File: 'EX503160001.will'

Peak Name: '35-Dinitrobenz' Mass(es): '182.046.0 amu'

Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1

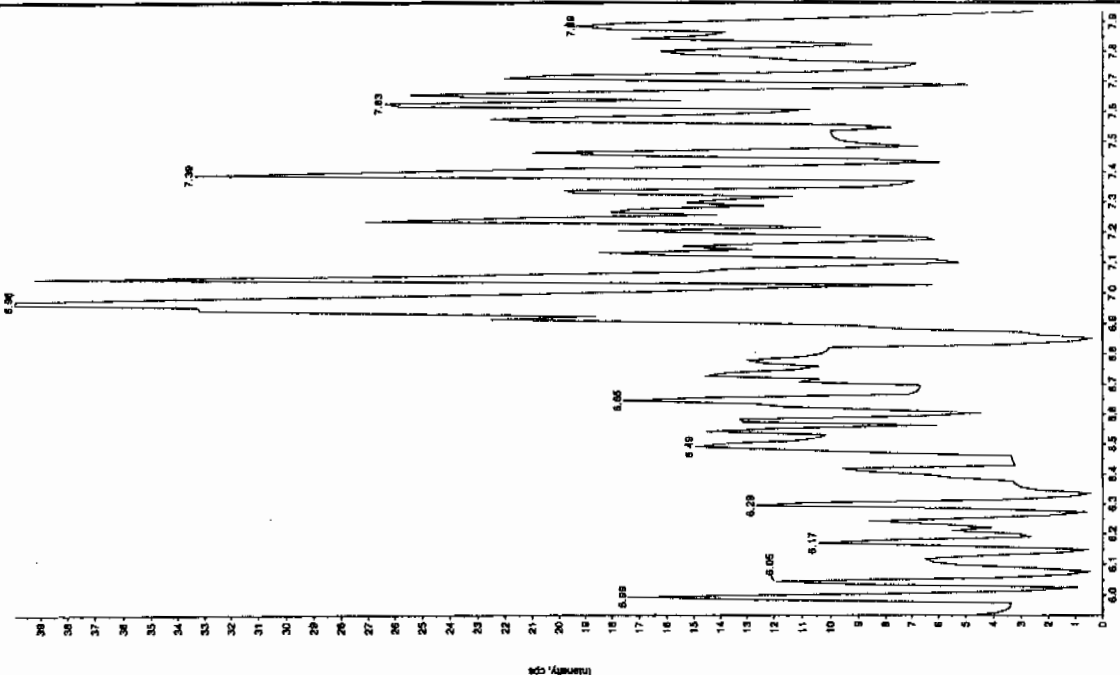
Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 3/16/2010

Acq. Date: 8:17:47 AM

Modified: No



Sample Name: 'XBLK01' Sample ID: 'JILER' File: 'EX503160001.will'

Peak Name: 'TATB' Mass(es): '257.2204.9 amu'

Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 3/16/2010

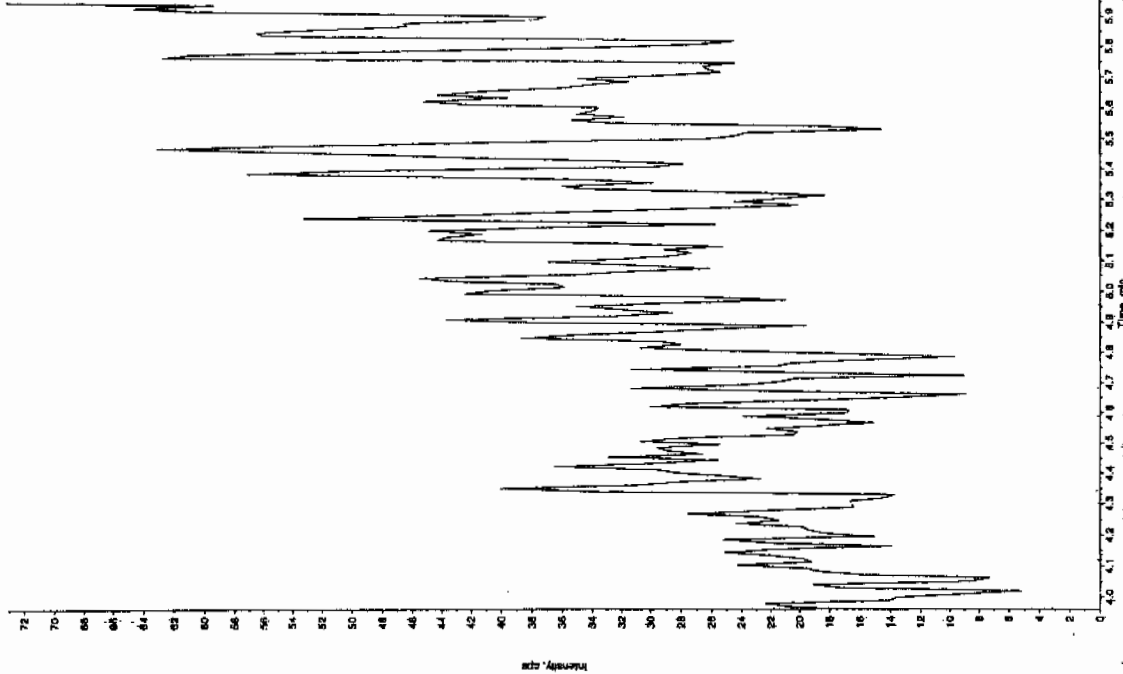
Acq. Date: 8:17:47 AM

Modified: No

Hum 03/18/10

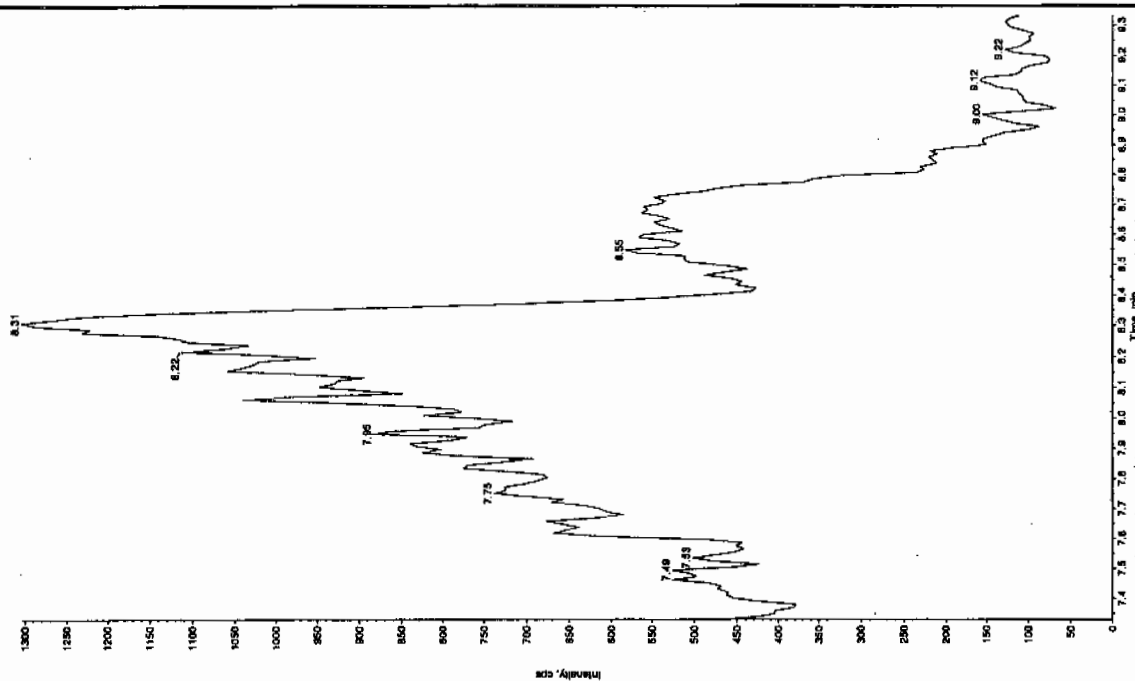
Sample Name: "XBLK01" Sample ID: "HILIR" File: "EX503160001.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:17:47 AM
 Modified: No



Sample Name: "XBLK01" Sample ID: "HILIR" File: "EX503160001.wif"
 Peak Name: "24-Dinitrobenzene" Mass(es): "182.0151.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

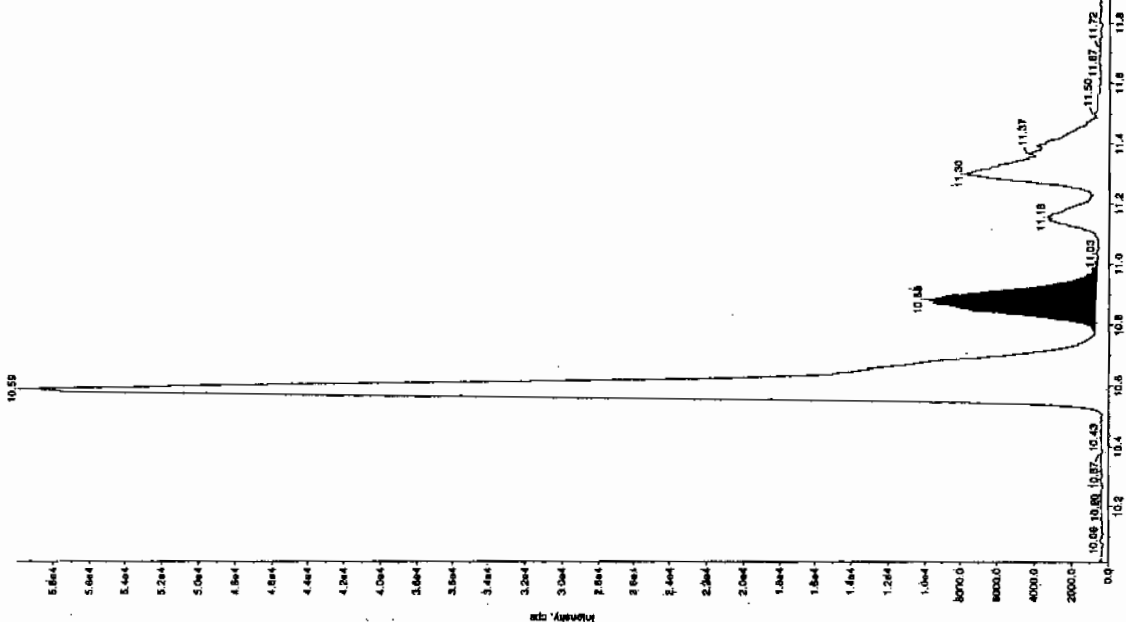
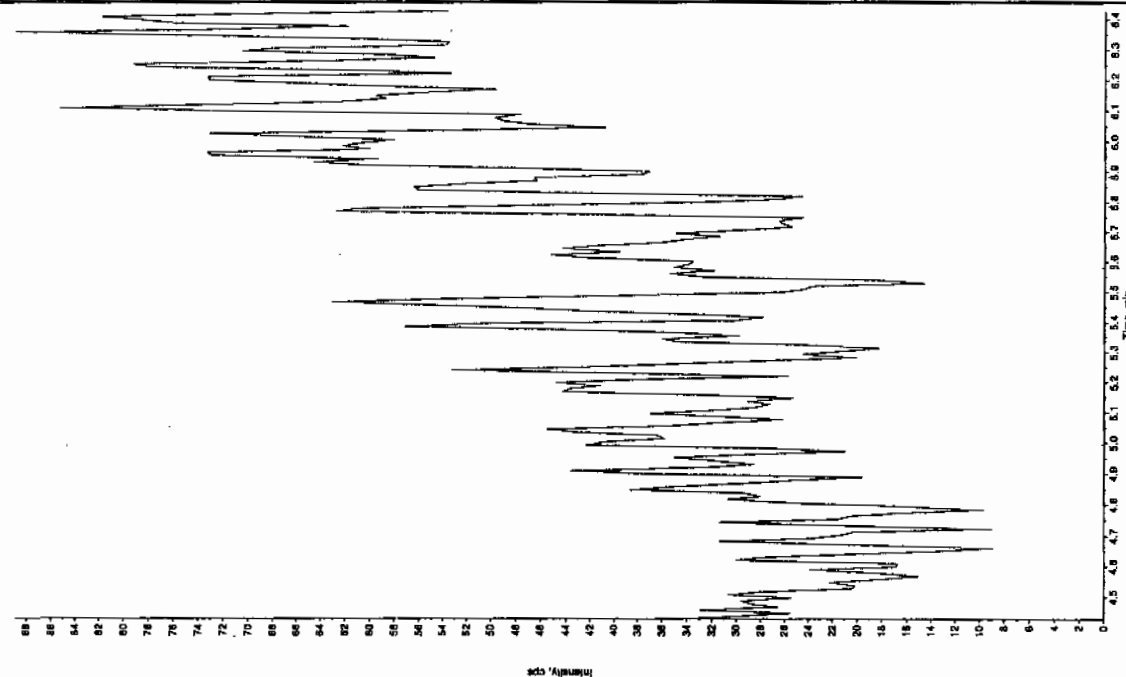
Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:17:47 AM
 Modified: No



Sample Name: "XIBLXG1" Sample ID: "TILER" File: "EX503160001.will"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "168.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.712510 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:17:47 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: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.77e+004 counts
 Height: 9390.677 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-MAR-10 08:33

GEL Data File: EXS03160002.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 3/18/10

Sample Name: "XIBLX01" Sample ID: "TILLER" File: "EXS03160002.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

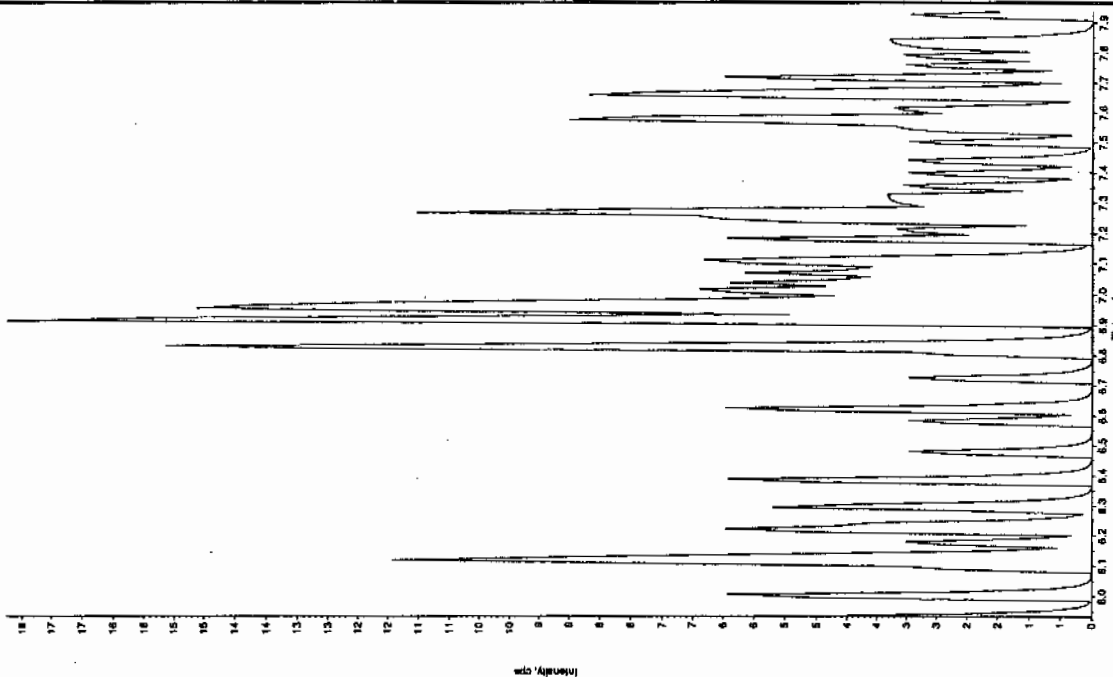
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/16/2010

Acq. Time: 8:33:14 AM

Modified: No



Sample Name: "XIBLX01" Sample ID: "TILLER" File: "EXS03160002.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

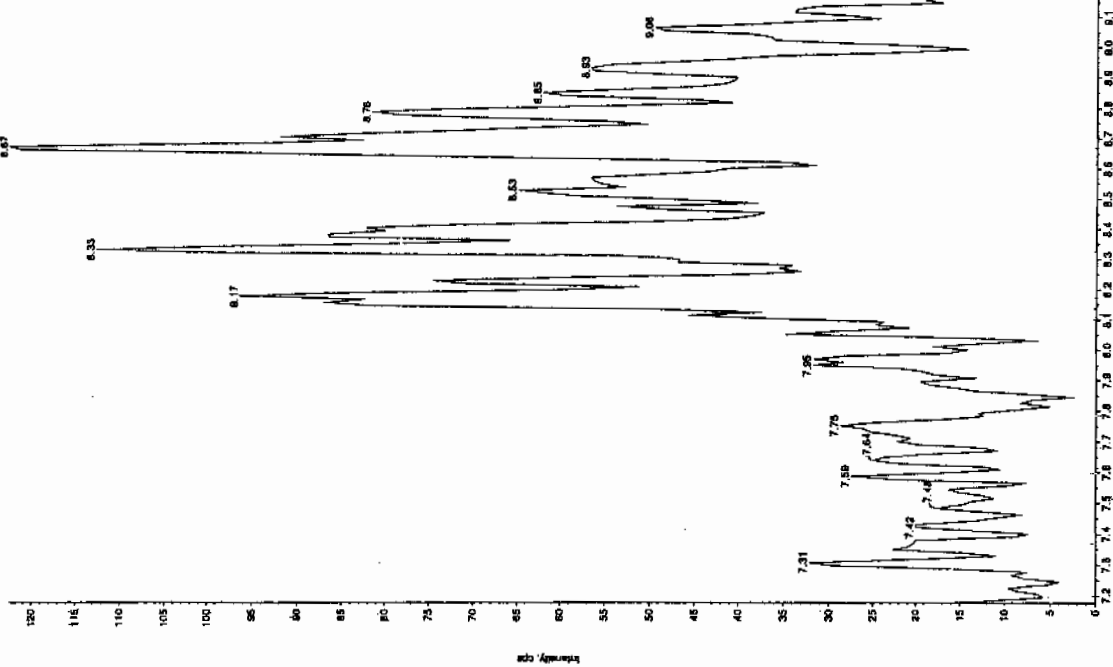
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/16/2010

Acq. Time: 8:33:14 AM

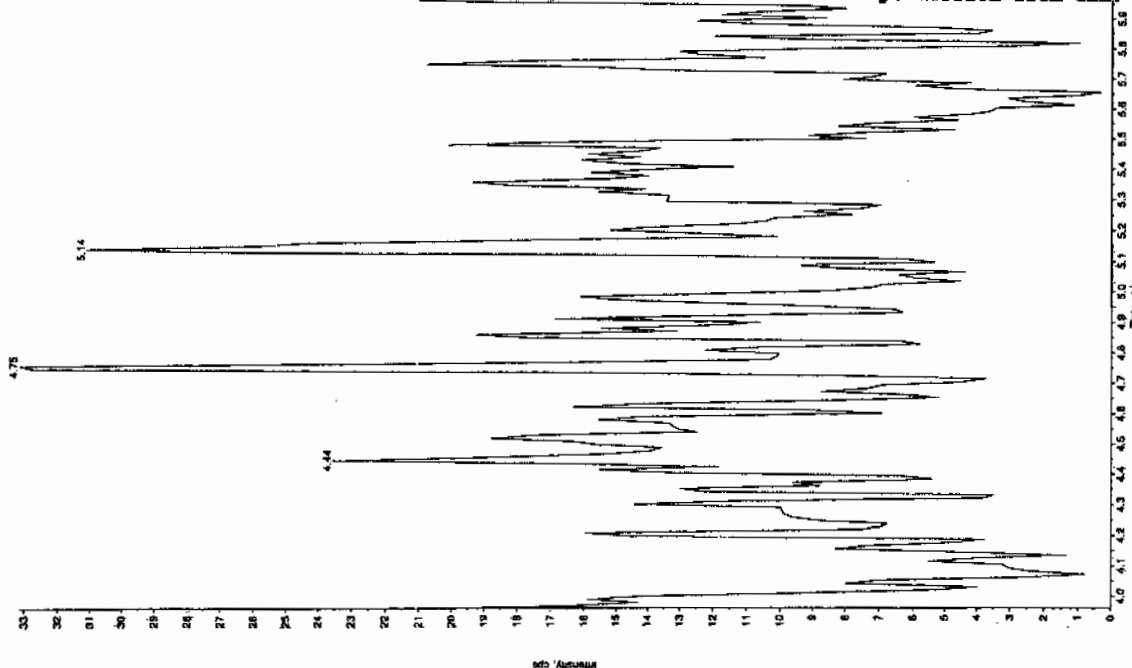
Modified: No



Ann 03/22/10

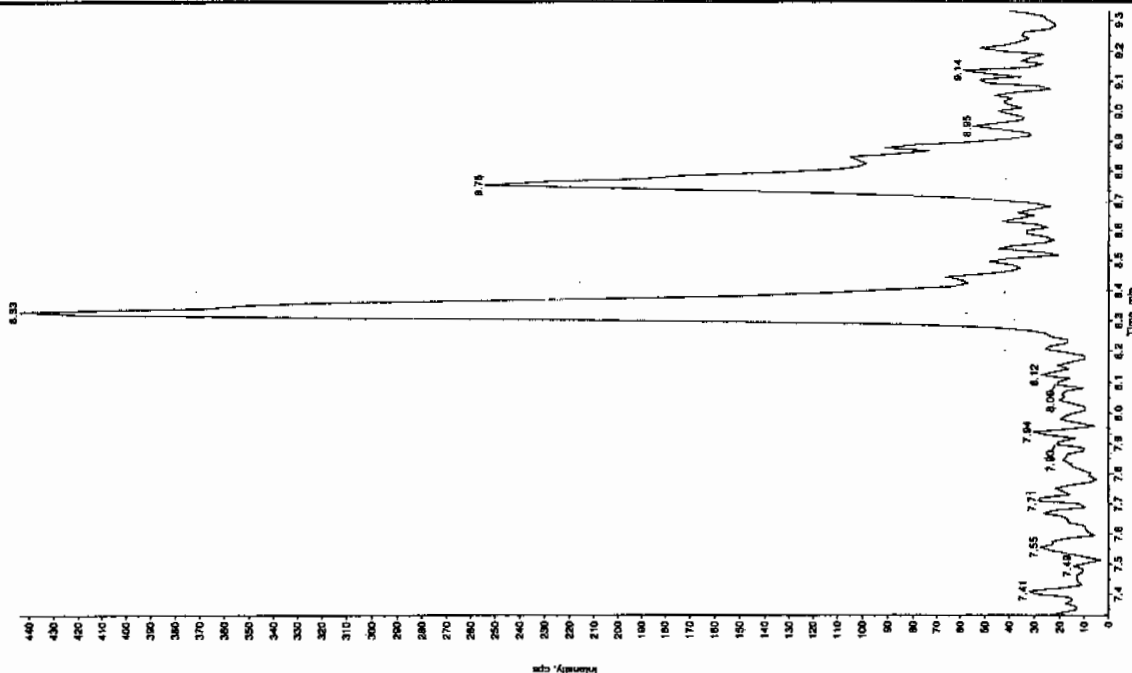
Sample Name: "XBLX01" Sample ID: "TILER" File: "EX503160002.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/15/2010
 Acq. Time: 8:33:34 AM
 Modified: No

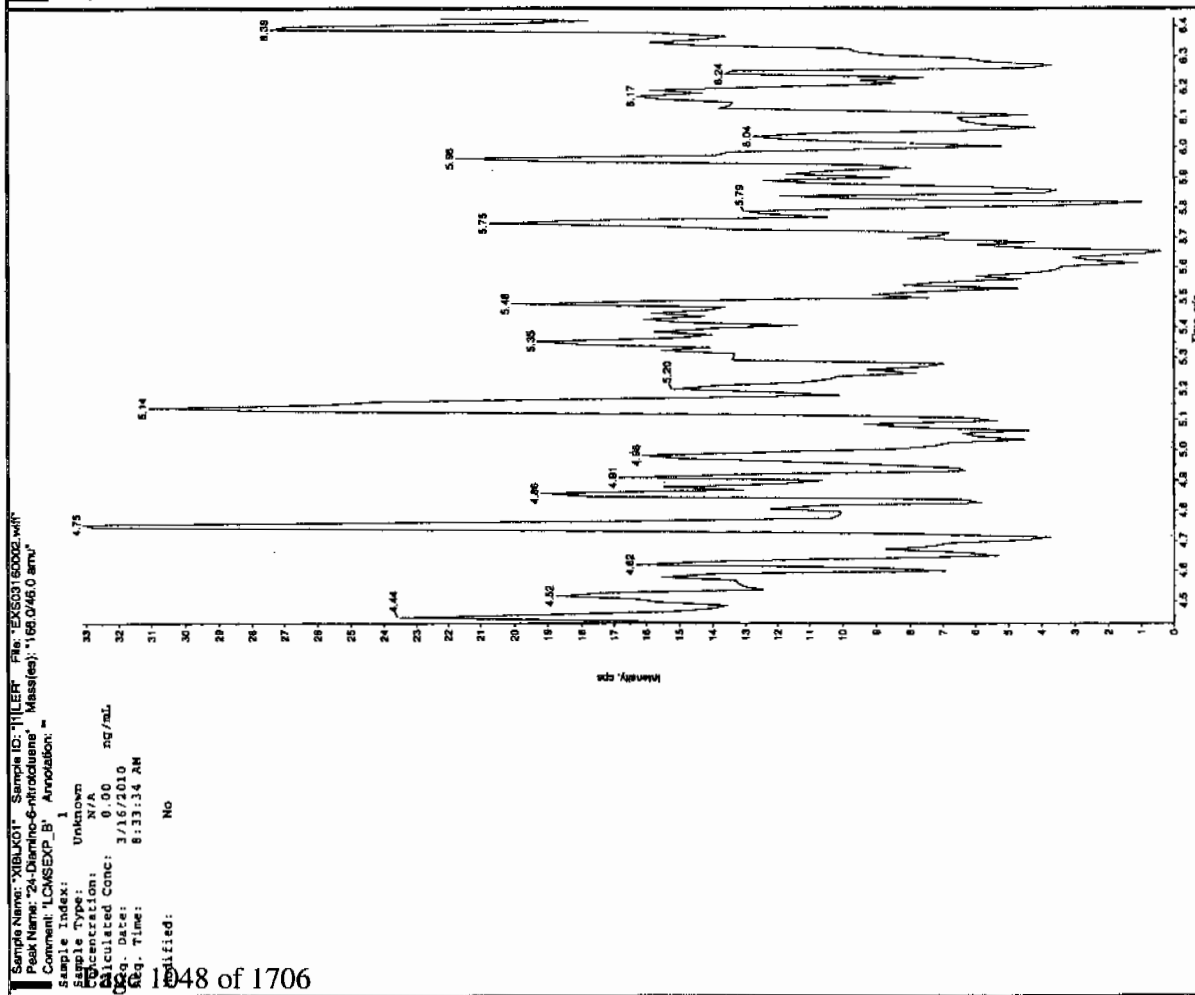


Sample Name: "XBLX01" Sample ID: "TILER" File: "EX503160002.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

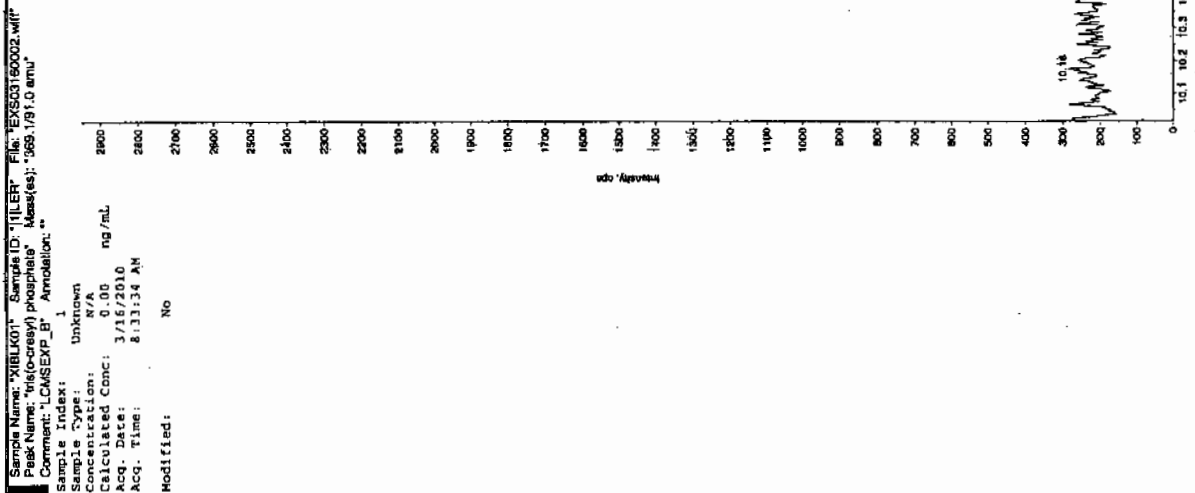
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/15/2010
 Acq. Time: 8:33:34 AM
 Modified: No



Sample Name: XBLK01 Sample ID: 11LEP File: EX60316002.wif
 Peak Name: 24-Dinitro-6-nitrofluorene Mass(es): 168.045.0 amu
 Comment: LCMSXP_B1 Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:33:34 AM
 Modified: No



Sample Name: XBLK01 Sample ID: 11LEP File: EX60316002.wif
 Peak Name: 24-Dinitro-6-nitrofluorene Mass(es): 168.045.0 amu
 Comment: LCMSXP_B1 Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:33:34 AM
 Modified: No



Sample Name: XBLK01 Sample ID: 11LEP File: EX60316002.wif
 Peak Name: 24-Dinitro-6-nitrofluorene Mass(es): 168.045.0 amu
 Comment: LCMSXP_B1 Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:33:34 AM
 Modified: No

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 23-MAR-10 13:04

GEL Data File: EXP0323009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	400.005
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	359.09
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323009a

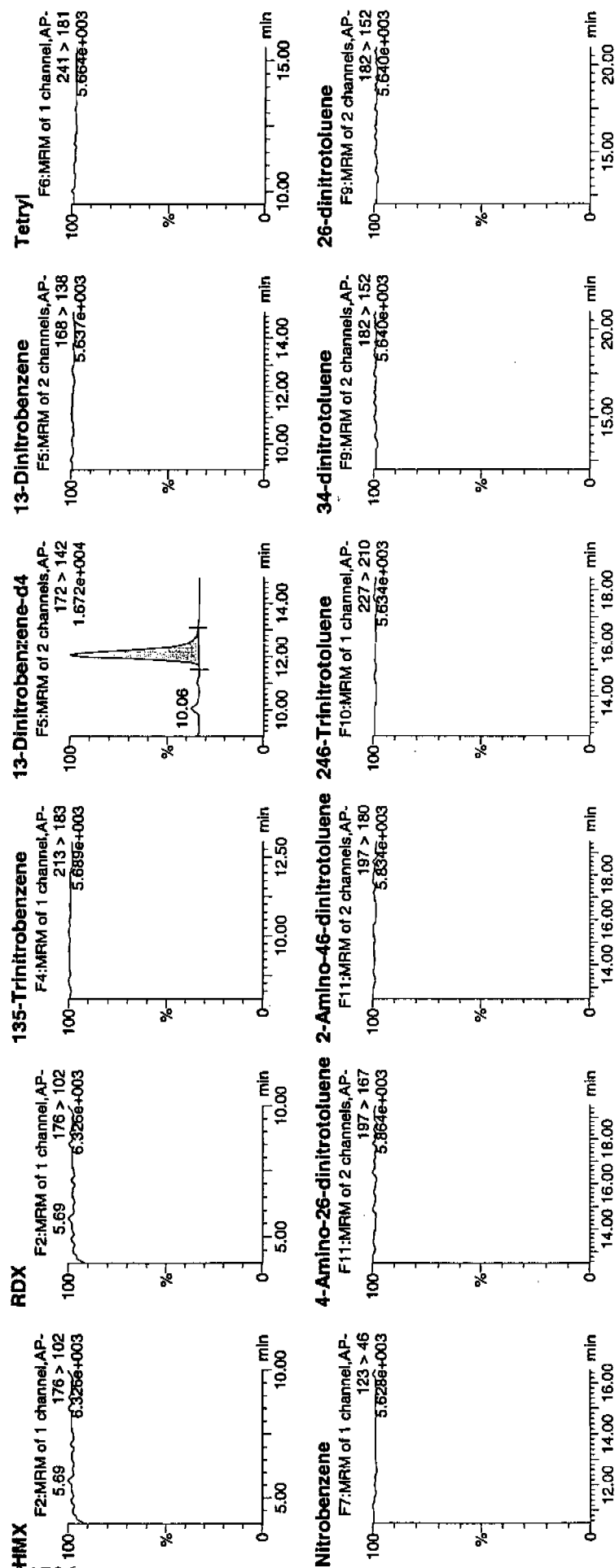
Date: 23-Mar-2010

Time: 13:04:52

ID: XIBLK02

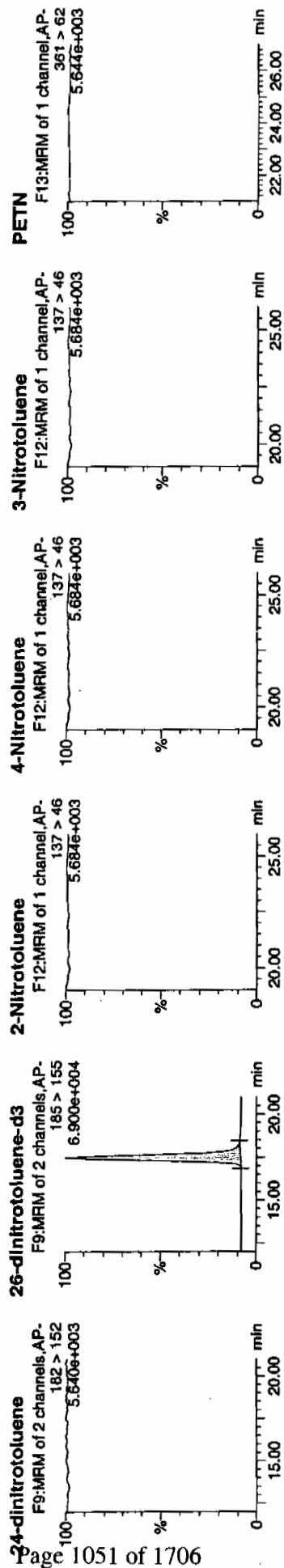
Vial: 1:1,A

*not
a peak*



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Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



IN	Name	RT	Area	S Area	Flags	Mod Date	Mod Time	Conc	% Rec	% Dev	SN
XIBLK02	HMX	176 > 102		4403.474							
XIBLK02	RDX	176 > 102		4403.474							
XIBLK02	135-Trinitrobenzene	213 > 183		4403.474							
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.07	4403.474				400.0051	80.0	-20.0	434.0
XIBLK02	13-Dinitrobenzene	168 > 138		4403.474							
XIBLK02	Tetryl	241 > 181		4403.474							
XIBLK02	Nitrobenzene	123 > 46		4403.474							
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167		24727.354							
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180		24727.354							
XIBLK02	246-Trinitrotoluene	227 > 210		24727.354							
XIBLK02	34-dinitrotoluene	182 > 152		24727.354							
XIBLK02	26-dinitrotoluene	182 > 152		24727.354							
XIBLK02	24-dinitrotoluene	182 > 152		24727.354							
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.44	24727.354				359.0901	71.8	-28.2	3290.4
XIBLK02	2-Nitrotoluene	137 > 46		24727.354							
XIBLK02	4-Nitrotoluene	137 > 46		24727.354							
XIBLK02	3-Nitrotoluene	137 > 46		24727.354							
XIBLK02	PETN	361 > 62		24727.354							

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 23-MAR-10 14:03

GEL Data File: EXP0323011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	505.262
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	469.688
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323011a

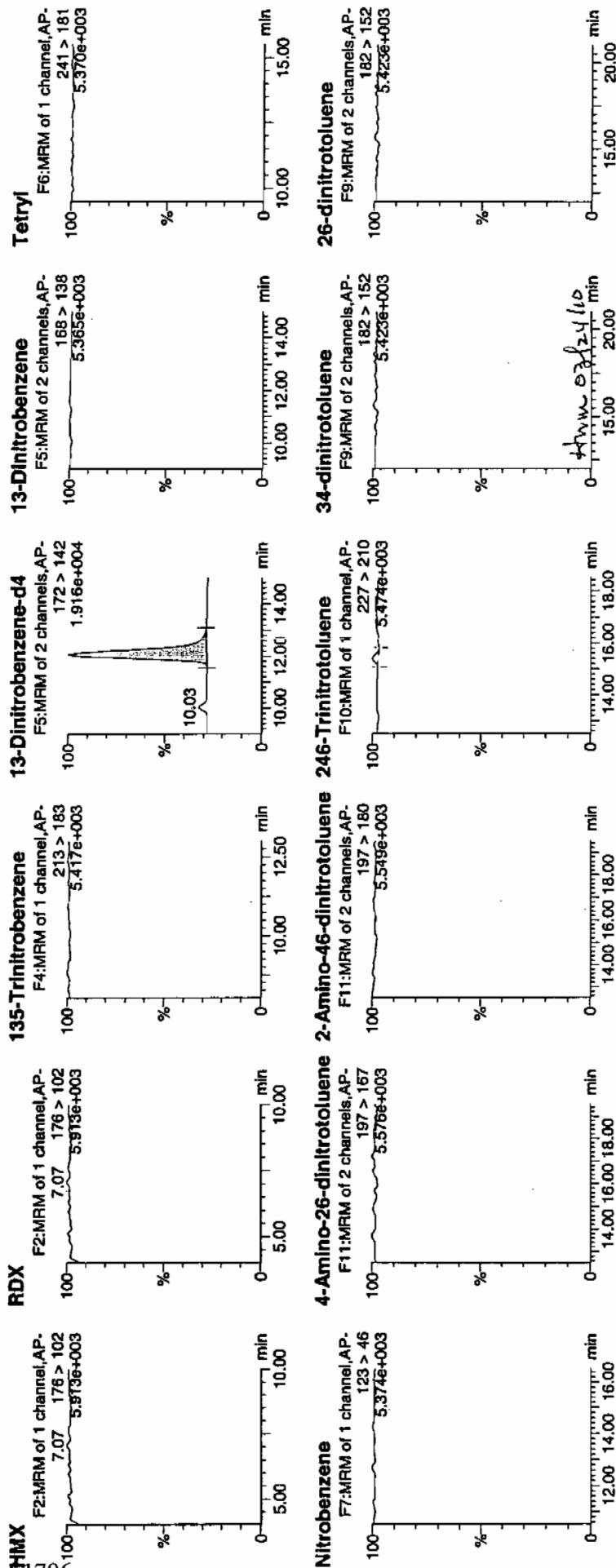
Date: 23-Mar-2010

Time: 14:03:49

ID: XIBLK03

Vial: 1:1,A

100%
3/24/10



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 23-MAR-10 20:27

GEL Data File: EXP0323024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	562.021
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	528.426
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0323024a

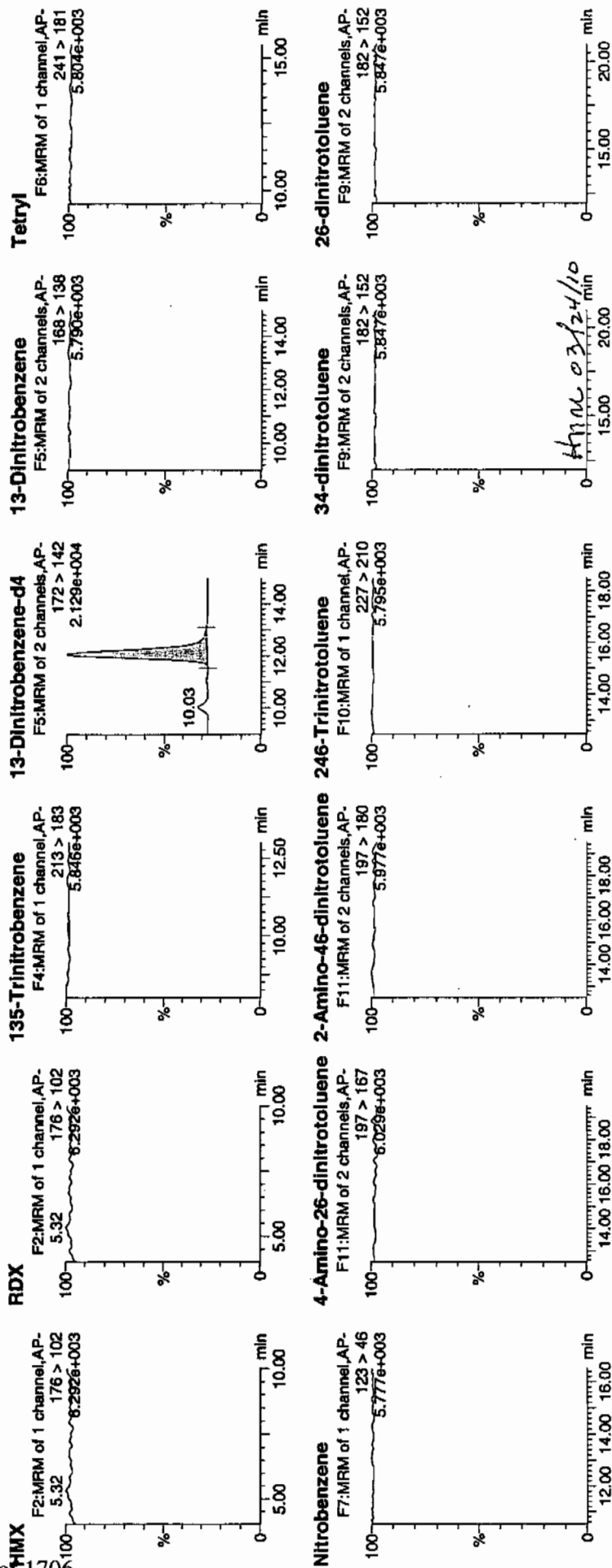
Date: 23-Mar-2010

Time: 20:27:13

ID: XIBLK04

Vial: 1:1,A

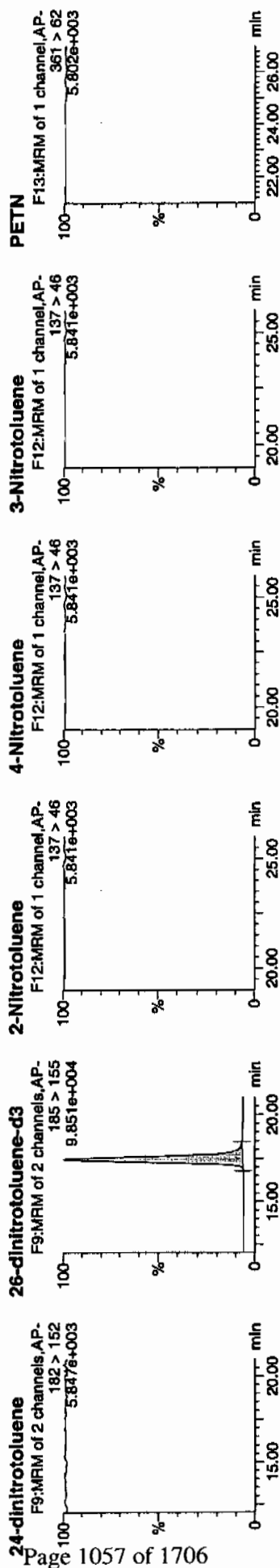
WFT
3/24/10



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Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	Area	Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Exp Date	%Dev	S/N
XIBLK04	HMX	176 > 102		6187.030								
XIBLK04	RDX	176 > 102		6187.030								
XIBLK04	135-Trinitrobenzene	213 > 183		6187.030								
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.07	6187.030		6187.030	bb			562.0207	112.4	852.7
XIBLK04	13-Dinitrobenzene	168 > 138		6187.030								
XIBLK04	Tetryl	241 > 181		6187.030								
XIBLK04	Nitrobenzene	123 > 46		6187.030								
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167		36388.039								
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180		36388.039								
XIBLK04	246-Trinitrotoluene	227 > 210		36388.039								
XIBLK04	34-dinitrotoluene	182 > 152		36388.039								
XIBLK04	26-dinitrotoluene	182 > 152		36388.039								
XIBLK04	24-dinitrotoluene	182 > 152		36388.039								
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.42	36388.039		36388.039	bb			528.4263	105.7	3528.7
XIBLK04	2-Nitrotoluene	137 > 46		36388.039								
XIBLK04	4-Nitrotoluene	137 > 46		36388.039								
XIBLK04	3-Nitrotoluene	137 > 46		36388.039								
XIBLK04	PETN	361 > 62		36388.039								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 24-MAR-10 02:50

GEL Data File: EXP0323037a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
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
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	534.426
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	585.234

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Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323037a

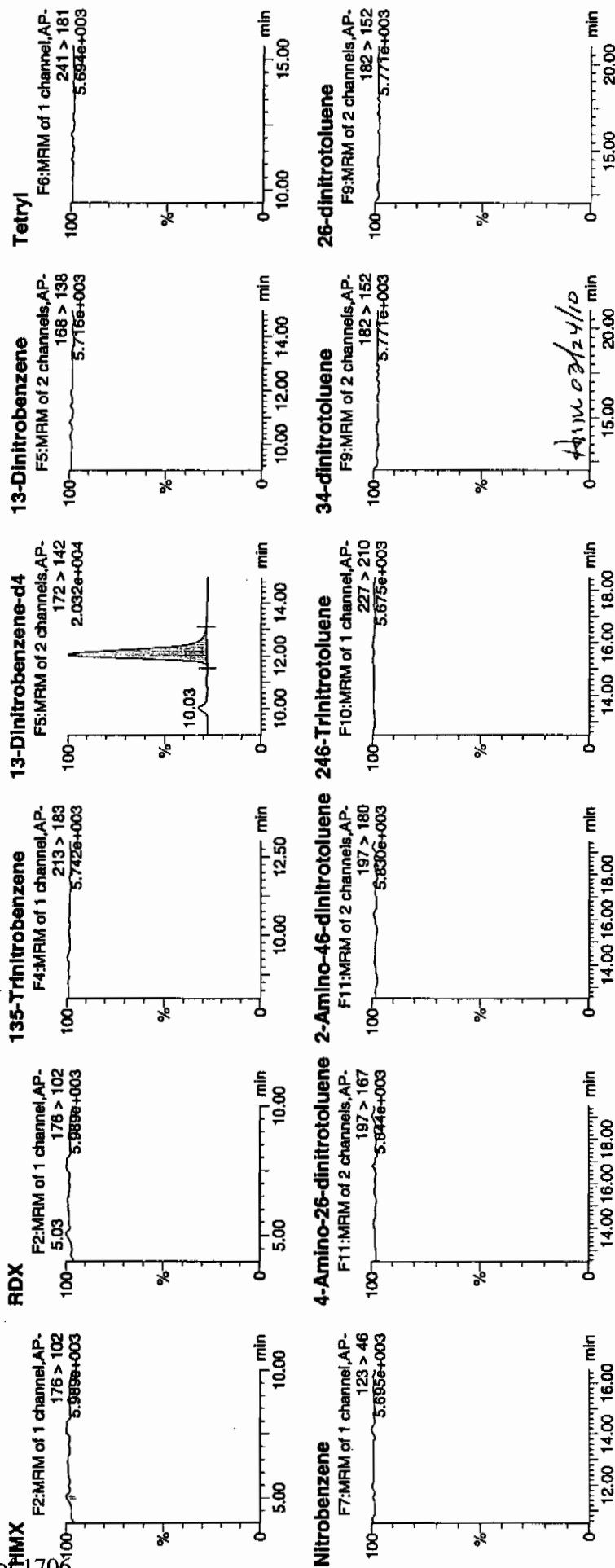
Date: 24-Mar-2010

Time: 02:50:36

ID: XIBLK05

Vial: 1:1,A

10/11/10
3/24/10

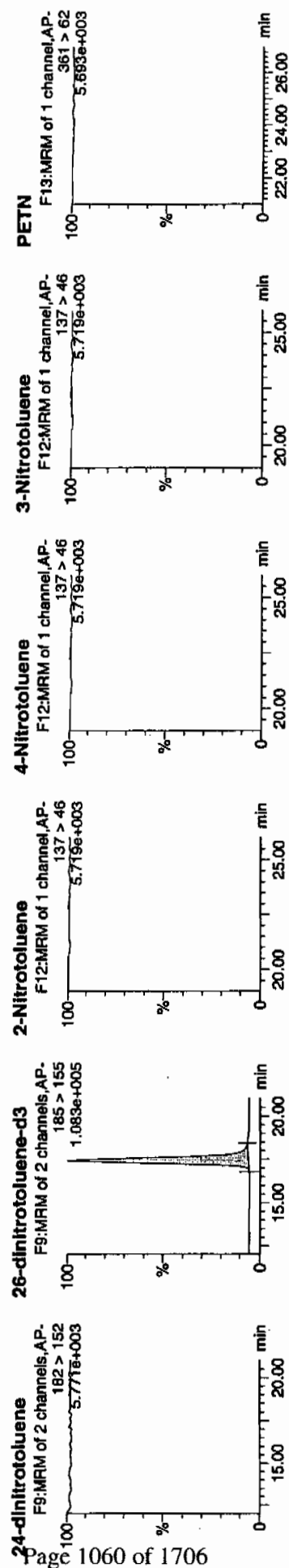


Quantify Sample Report

Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 24-MAR-10 08:15

GEL Data File: EXP0323048a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	525.584
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	553.206
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny
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Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323048a

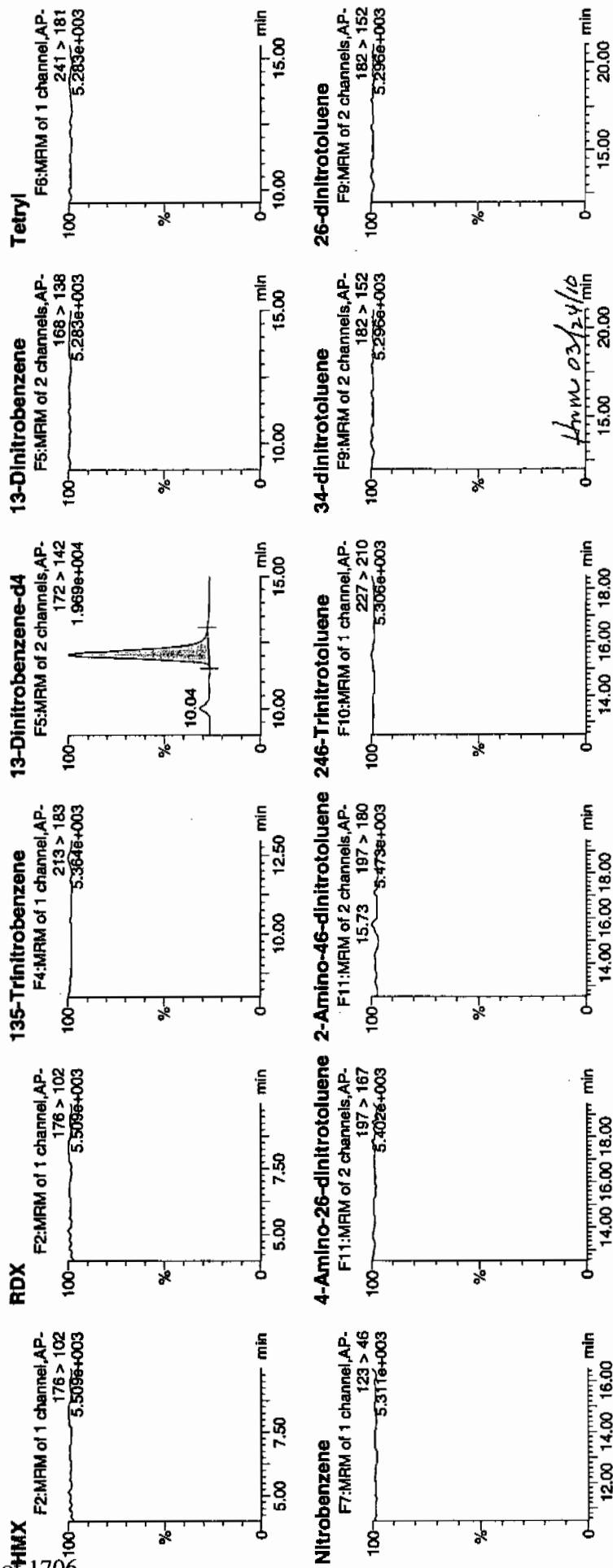
Date: 24-Mar-2010

Time: 08:15:01

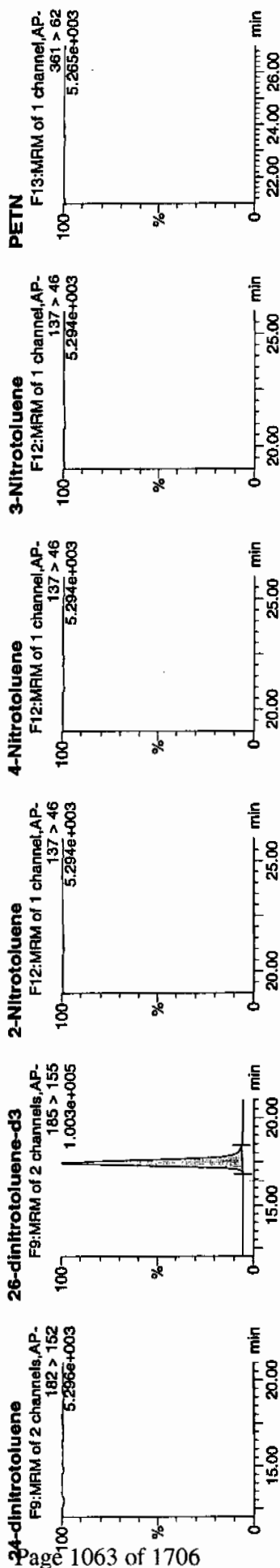
ID: XIBLK06

Val: 1:1,A

10/10/10



Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	RT	Area	IS:Area	Abs:Resp	Flags	Mod:Date	Mod:Time	Mod:User
XIBLK06	HMZ	176 > 102		5785.916					
XIBLK06	RDX	176 > 102		5785.916					
XIBLK06	135-Trinitrobenzene	213 > 183		5785.916					
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.03	5785.916	5785.916	bb			
XIBLK06	13-Dinitrobenzene	168 > 138		5785.916					
XIBLK06	Tetryl	241 > 181		5785.916					
XIBLK06	Nitrobenzene	123 > 46		5785.916					
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167		38094.418					
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180		38094.418					
XIBLK06	246-Trinitrotoluene	227 > 210		38094.418					
XIBLK06	34-dinitrotoluene	182 > 152		38094.418					
XIBLK06	26-dinitrotoluene	182 > 152		38094.418					
XIBLK06	24-dinitrotoluene	182 > 152		38094.418					
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.41	38094.418	38094.418	bb			
XIBLK06	2-Nitrotoluene	137 > 46		38094.418					
XIBLK06	4-Nitrotoluene	137 > 46		38094.418					
XIBLK06	3-Nitrotoluene	137 > 46		38094.418					
XIBLK06	PETN	361 > 62		38094.418					

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 24-MAR-10 14:38

GEL Data File: EXP0323061a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	509.311
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	504.889
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323061a

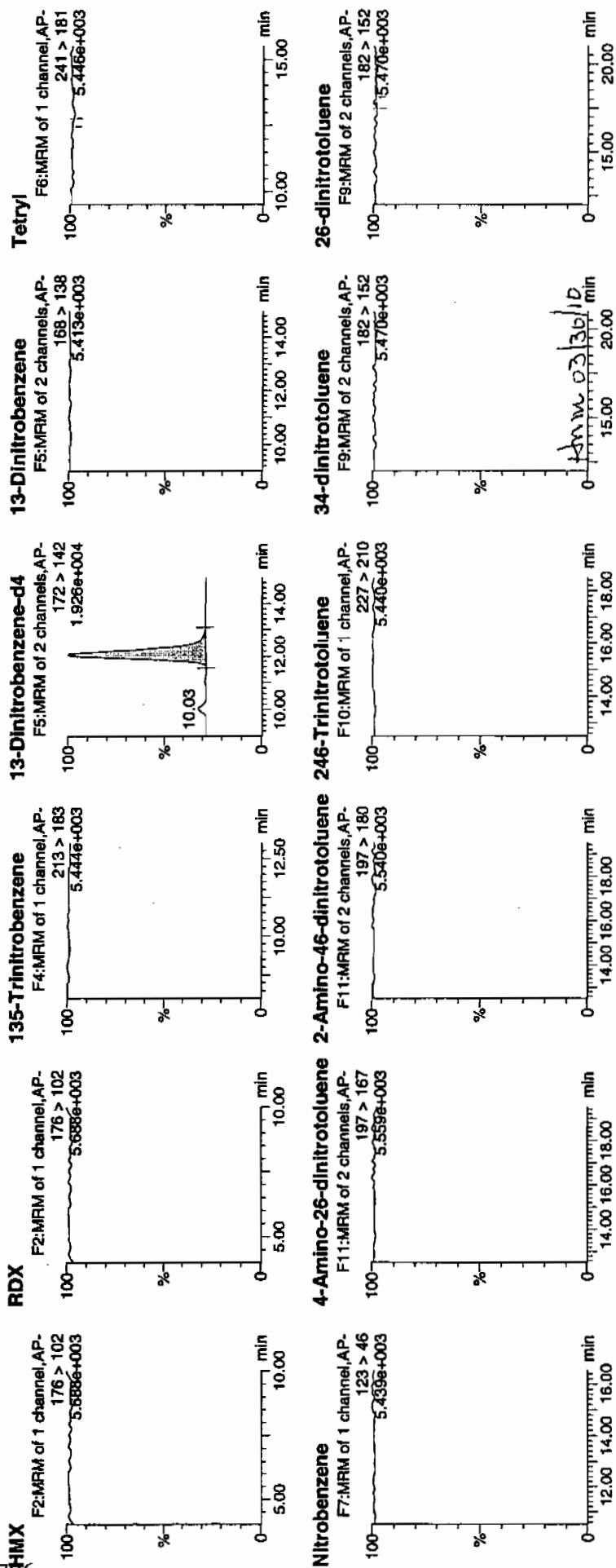
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Time: 14:38:46

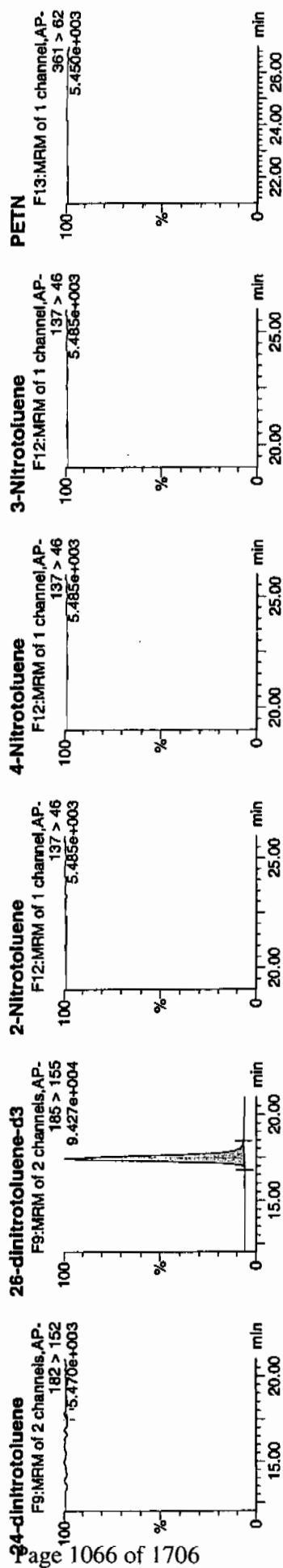
ID: XIBLK07

Val: 1:1,A

Page 1706



Dataset: C:\MASSL\YNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

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4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 24-MAR-10 21:02

GEL Data File: EXP0323074a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	608.614
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	531.363
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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Quantity Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0323074a

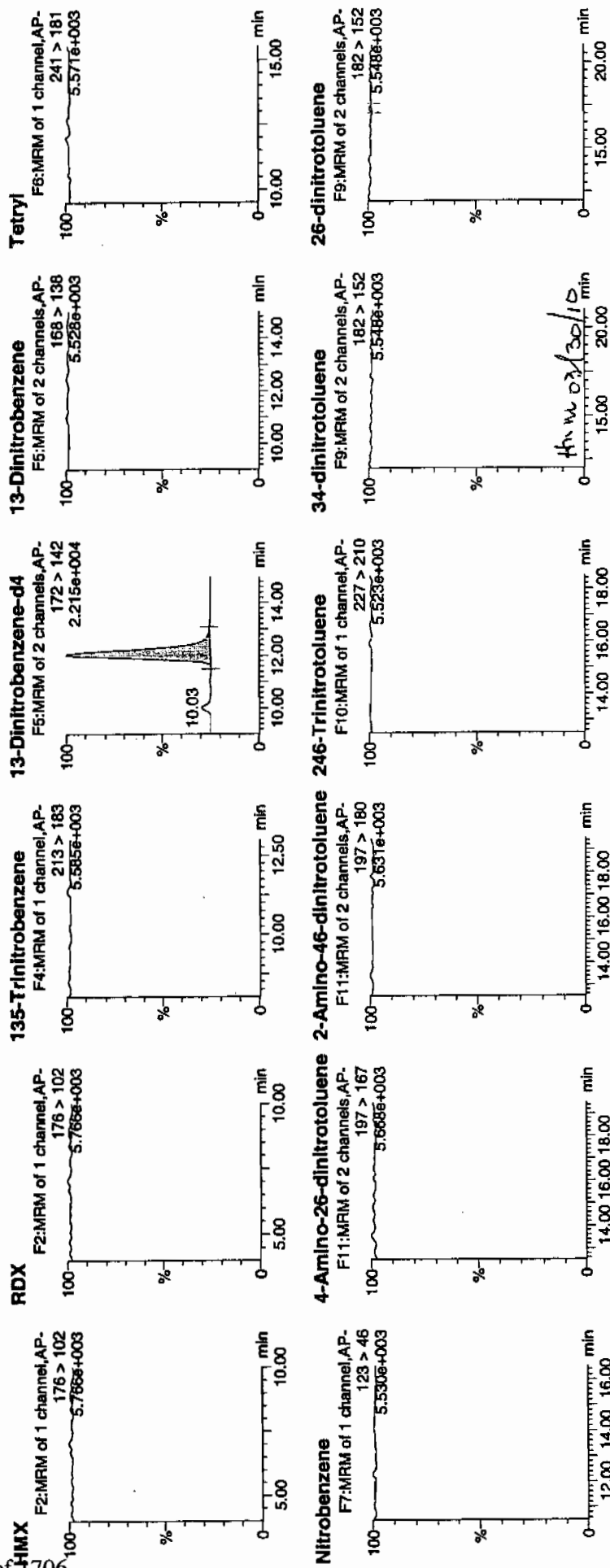
Date: 24-Mar-2010

Time: 21:02:20

ID: XIBLK08

Vial: 1:1.A

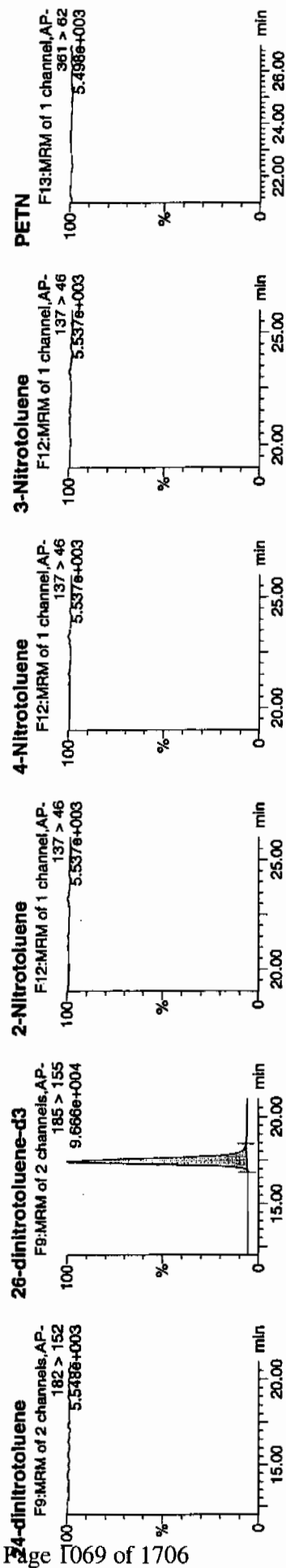
3/10/10



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Mod User	SN
XIBLK08	HMZ	176 > 102		6699.951							
XIBLK08	RDX	176 > 102		6699.951							
XIBLK08	135-Trinitrobenzene	213 > 183		6699.951							
XIBLK08	13-Dinitrobenzene-d4	172 > 142	12.03	6699.951							
XIBLK08	13-Dinitrobenzene	168 > 138		6699.951							
XIBLK08	Tetryl	241 > 181		6699.951							
XIBLK08	Nitrobenzene	123 > 46		6699.951							
XIBLK08	4-Amino-26-dinitrotoluene	197 > 167		36590.250							
XIBLK08	2-Amino-46-dinitrotoluene	197 > 180		36590.250							
XIBLK08	246-Trinitrotoluene	227 > 210		36590.250							
XIBLK08	34-dinitrotoluene	182 > 152		36590.250							
XIBLK08	26-dinitrotoluene	182 > 152		36590.250							
XIBLK08	24-dinitrotoluene	182 > 152		36590.250							
XIBLK08	26-dinitrotoluene-d3	185 > 155	17.42	36590.250							
XIBLK08	2-Nitrotoluene	137 > 46		36590.250							
XIBLK08	4-Nitrotoluene	137 > 46		36590.250							
XIBLK08	3-Nitrotoluene	137 > 46		36590.250							
XIBLK08	PETN	361 > 62		36590.250							
					6699.951	6699.951	bb				
					6699.951	6699.951	bb				
					36590.250	36590.250	bb				
					36590.250	36590.250	bb				
					608.6137	121.7					
					531.3628	106.3					
					620.8	21.7					
					4030.9	6.3					

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 25-MAR-10 00:28

GEL Data File: EXP0323081a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	569.342
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	537.727
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323081a

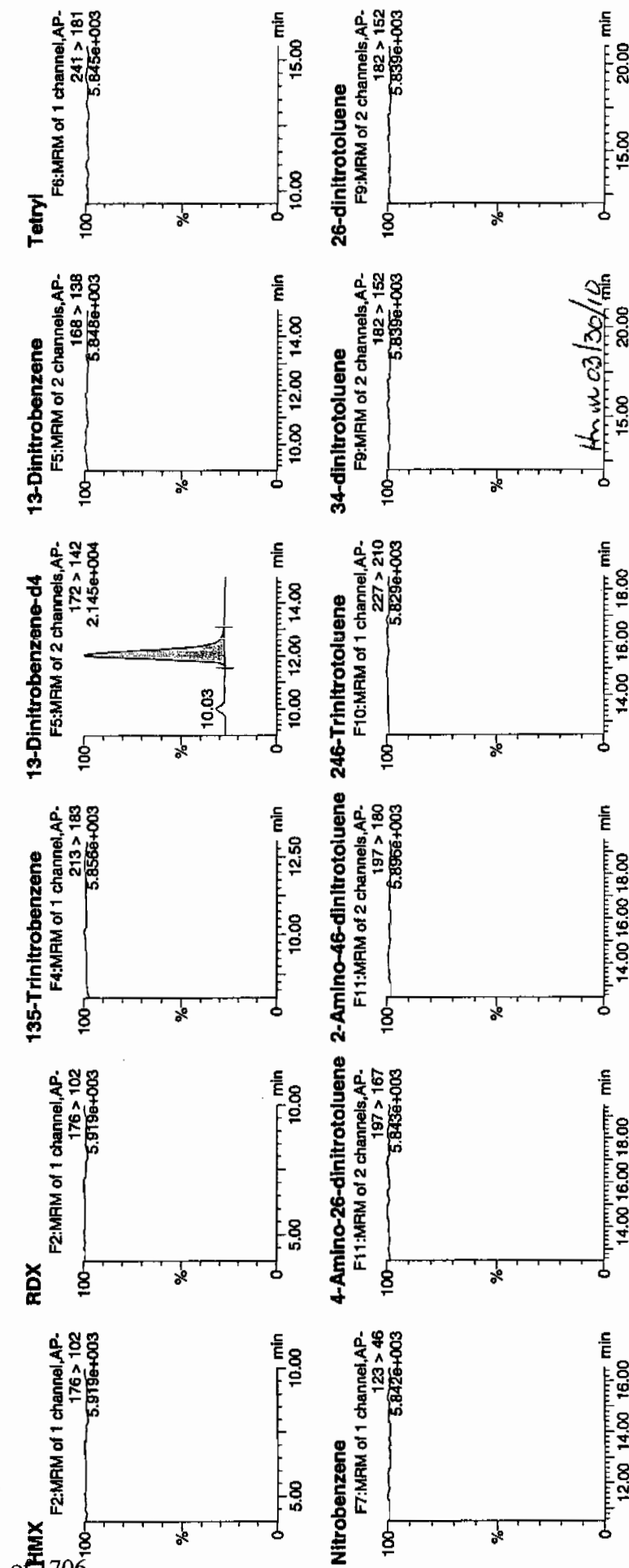
Date: 25-Mar-2010

Time: 00:28:55

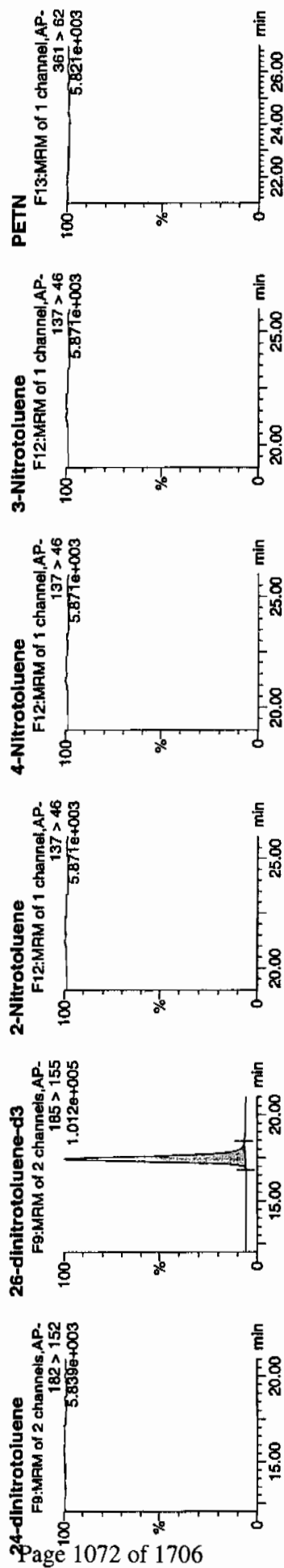
ID: XIBLK09

Vial: 1:1,A

MRM
3/15/10



Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



Name	ID	Trace	RT	Peak Area	Area %	Abs Resp	Response	Flags	Mod Date	Mod Time	Inj Vol (µl)	%Rec	%Dev	SN
HMX	XIBLK09	176 > 102				6267.627								
RDX	XIBLK09	176 > 102				6267.627								
135-Trinitrobenzene	XIBLK09	213 > 183				6267.627								
13-Dinitrobenzene-d4	XIBLK09	172 > 142	12.07	6267.627			6267.627	bb			569.3420	113.9	13.9	1206.4
13-Dinitrobenzene	XIBLK09	168 > 138				6267.627								
Tetryl	XIBLK09	241 > 181				6267.627								
Nitrobenzene	XIBLK09	123 > 46				6267.627								
4-Amino-26-dinitrotoluene	XIBLK09	197 > 167				37028.527								
2-Amino-46-dinitrotoluene	XIBLK09	197 > 180				37028.527								
248-Trinitrotoluene	XIBLK09	227 > 210				37028.527								
34-dinitrotoluene	XIBLK09	182 > 152				37028.527								
26-dinitrotoluene	XIBLK09	182 > 152				37028.527								
24-dinitrotoluene	XIBLK09	182 > 152				37028.527								
26-dinitrotoluene-d3	XIBLK09	185 > 155	17.42	37028.527			37028.527				537.7274	107.5	7.5	4815.7
2-Nitrotoluene	XIBLK09	137 > 46				37028.527		bb						
4-Nitrotoluene	XIBLK09	137 > 46				37028.527								
3-Nitrotoluene	XIBLK09	137 > 46				37028.527								
PETN	XIBLK09	361 > 62				37028.527								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 25-MAR-10 03:26

GEL Data File: EXP0323087a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	533.943
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	485.827
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

Printed: Thu Mar 25 10:04:08 2010, Page 75 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323087a

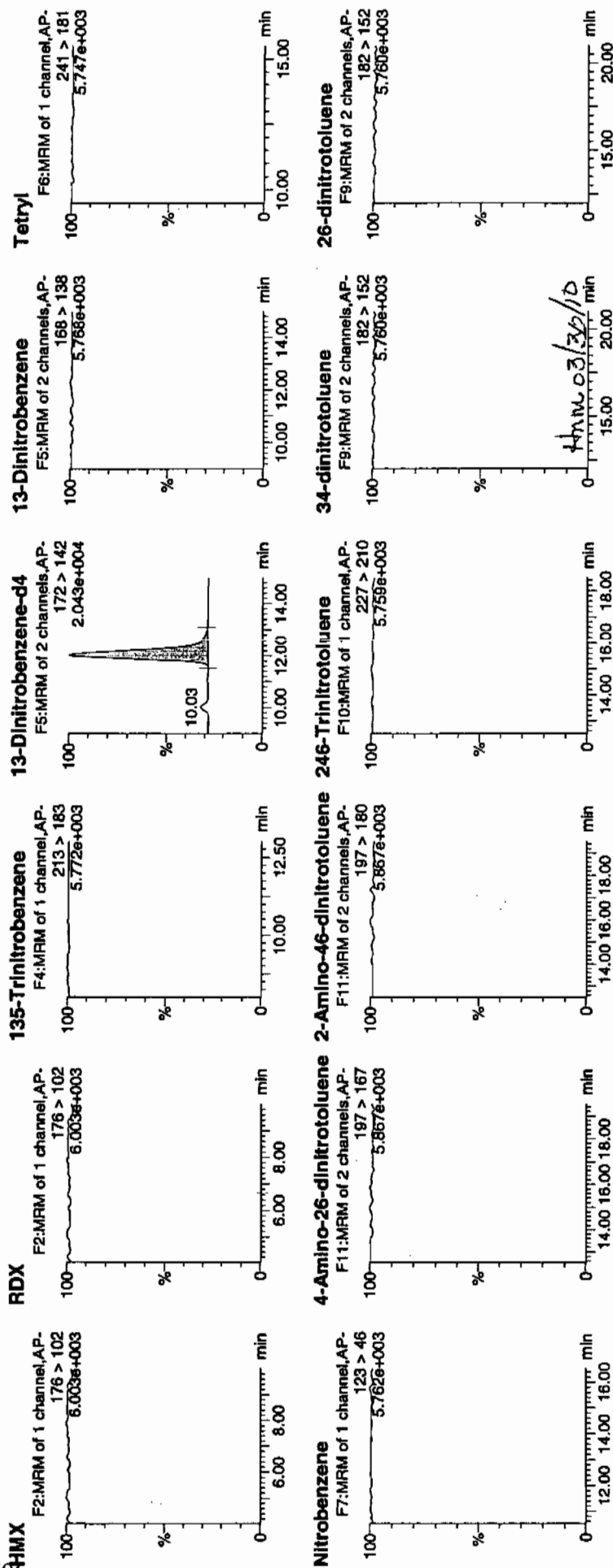
Date: 25-Mar-2010

Time: 03:26:02

ID: XIBLK10

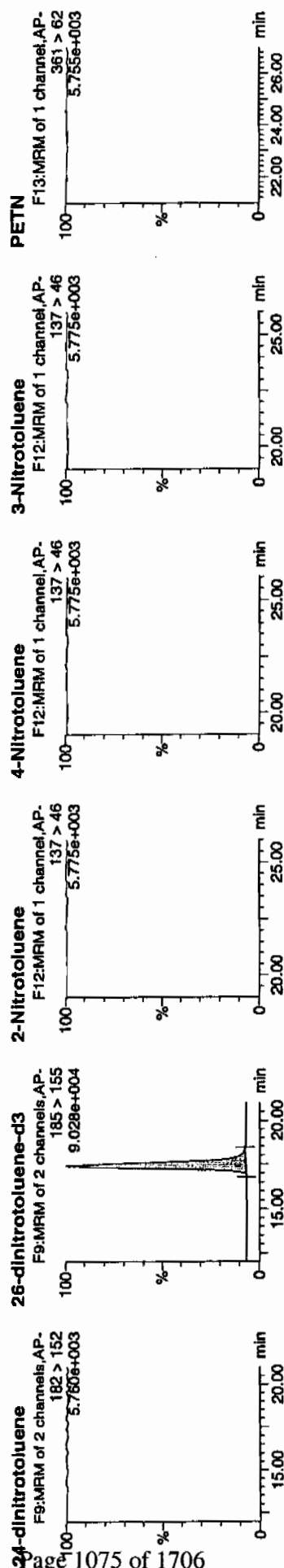
Vial: 1:1,A

100%
3/25/10



Quantify Sample Report
GGEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

[illegible]

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 26-MAR-10 18:39

GEL Data File: EXP0326009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	515.868
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	517.205
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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326009a

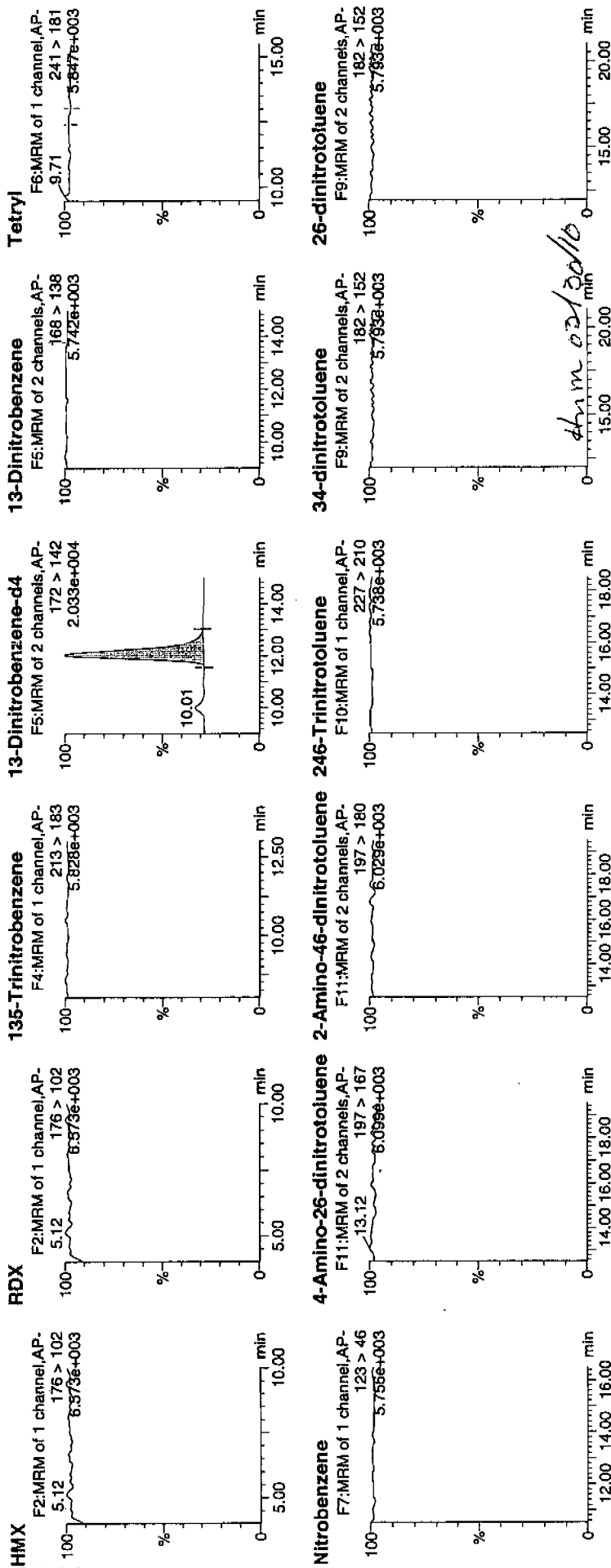
Date: 26-Mar-2010

Time: 18:39:13

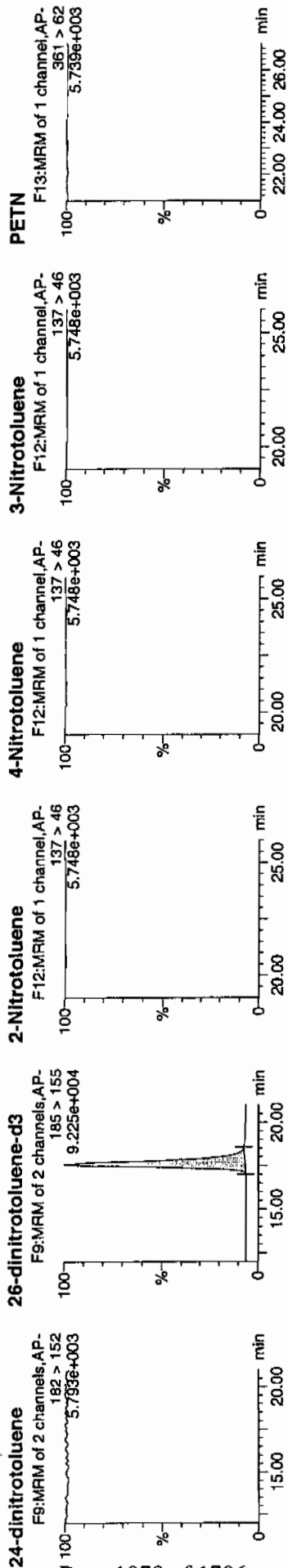
ID: XIBLK02

Vial: 1:1,A

1.571
3.121/100



Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod:Date	Mod:Time	%Rec	%Dev	S/N	
XIBLK02	HMX	176 > 102			6311.530									
XIBLK02	RDX	176 > 102			6311.530									
XIBLK02	135-Trinitrobenzene	213 > 183			6311.530									
XIBLK02	13-Dinitrobenzene-d4	172 > 142	12.03	6311.530		6311.530	6311.530	bb			515.8679	103.2	3.2	376.2
XIBLK02	13-Dinitrobenzene	168 > 138												
XIBLK02	Tetryl	241 > 181												
XIBLK02	Nitrobenzene	123 > 46												
XIBLK02	4-Amino-26-dinitrotoluene	197 > 167												
XIBLK02	2-Amino-46-dinitrotoluene	197 > 180												
XIBLK02	246-Trinitrotoluene	227 > 210												
XIBLK02	34-dinitrotoluene	182 > 152												
XIBLK02	26-dinitrotoluene	182 > 152												
XIBLK02	24-dinitrotoluene	182 > 152												
XIBLK02	26-dinitrotoluene-d3	185 > 155	17.57	37973.375		37973.375	37973.375	bb			517.2053	103.4	3.4	3166.6
XIBLK02	2-Nitrotoluene	137 > 46												
XIBLK02	4-Nitrotoluene	137 > 46												
XIBLK02	3-Nitrotoluene	137 > 46												
XIBLK02	PETN	361 > 62												

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 26-MAR-10 19:38

GEL Data File: EXP0326011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	485.062
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	531.851
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326011a

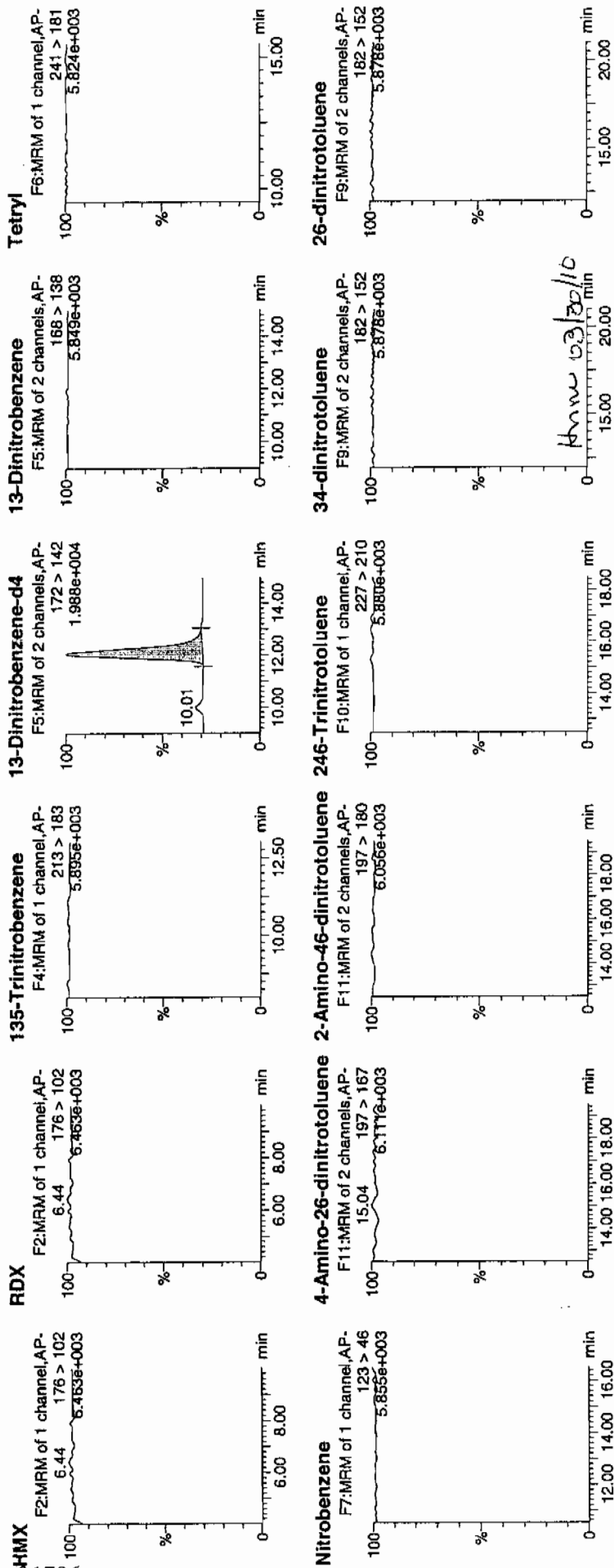
Date: 26-Mar-2010

Time: 19:38:10

ID: XIBLK03

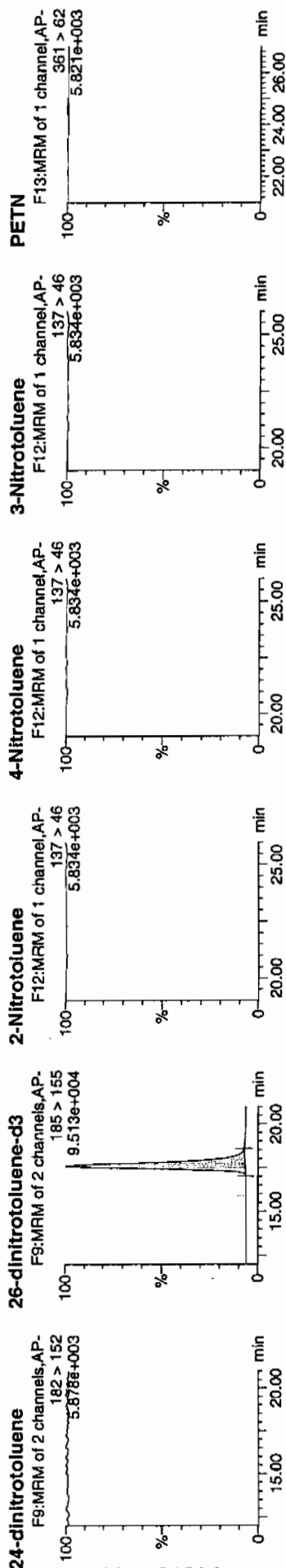
Vial: 1:1,A

1.001
5.824e+003



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:14 2010



ID	Name	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev	SN
XIBLK03	HMX	176 > 102		5934.625								
XIBLK03	RDX	176 > 102		5934.625								
XIBLK03	135-Trinitrobenzene	213 > 183		5934.625								
XIBLK03	13-Dinitrobenzene-d4	172 > 142	12.03	5934.625		5934.625	bb		485.0618	97.0	-3.0	914.7
XIBLK03	13-Dinitrobenzene	168 > 138		5934.625								
XIBLK03	Tetryl	241 > 181		5934.625								
XIBLK03	Nitrobenzene	123 > 46		5934.625								
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167		39048.680								
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180		39048.680								
XIBLK03	246-Trinitrotoluene	227 > 210		39048.680								
XIBLK03	34-dinitrotoluene	182 > 152		39048.680								
XIBLK03	26-dinitrotoluene	182 > 152		39048.680								
XIBLK03	24-dinitrotoluene	182 > 152		39048.680								
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.57	39048.680					531.8512	106.4	6.4	1537.1
XIBLK03	2-Nitrotoluene	137 > 46		39048.680		39048.680	bb					
XIBLK03	4-Nitrotoluene	137 > 46		39048.680								
XIBLK03	3-Nitrotoluene	137 > 46		39048.680								
XIBLK03	PETN	361 > 62		39048.680								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 26-MAR-10 23:04

GEL Data File: EXP0326018a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	587.097
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	554.136
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326018a

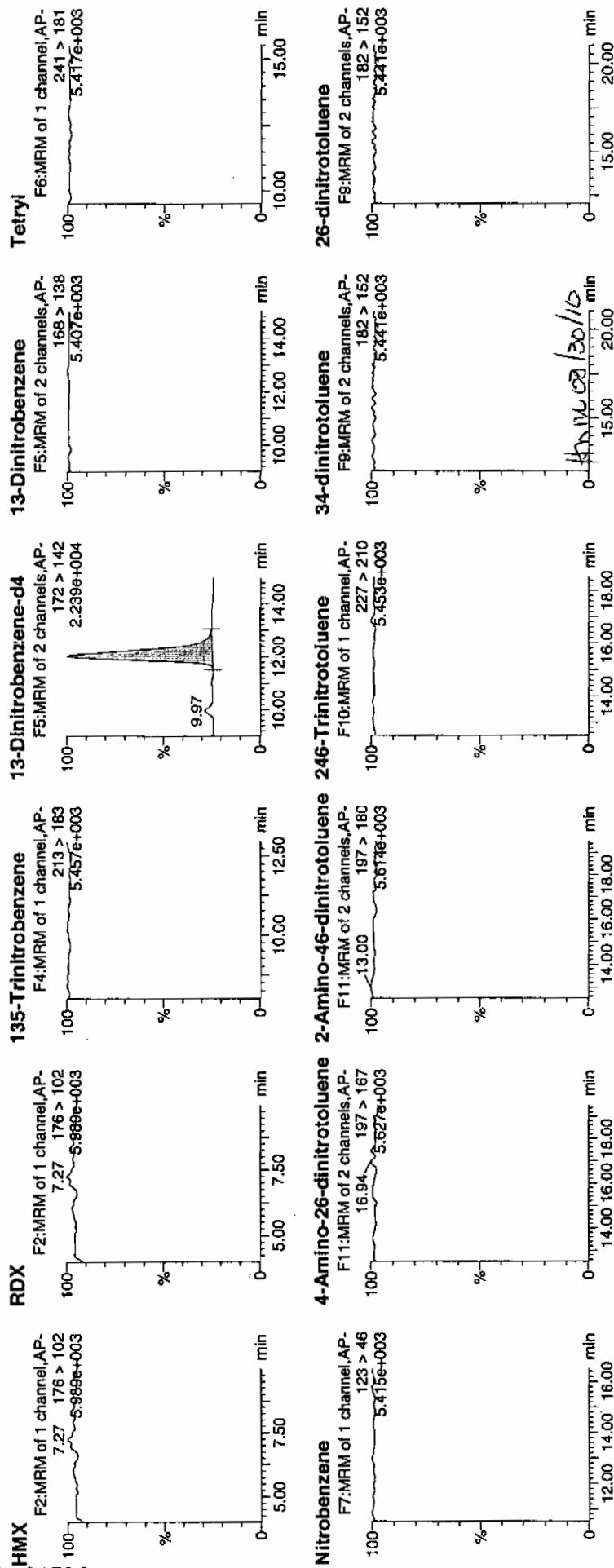
Date: 26-Mar-2010

Time: 23:04:41

ID: XIBLK04

Vial: 1:1,A

11/17
3/16/10

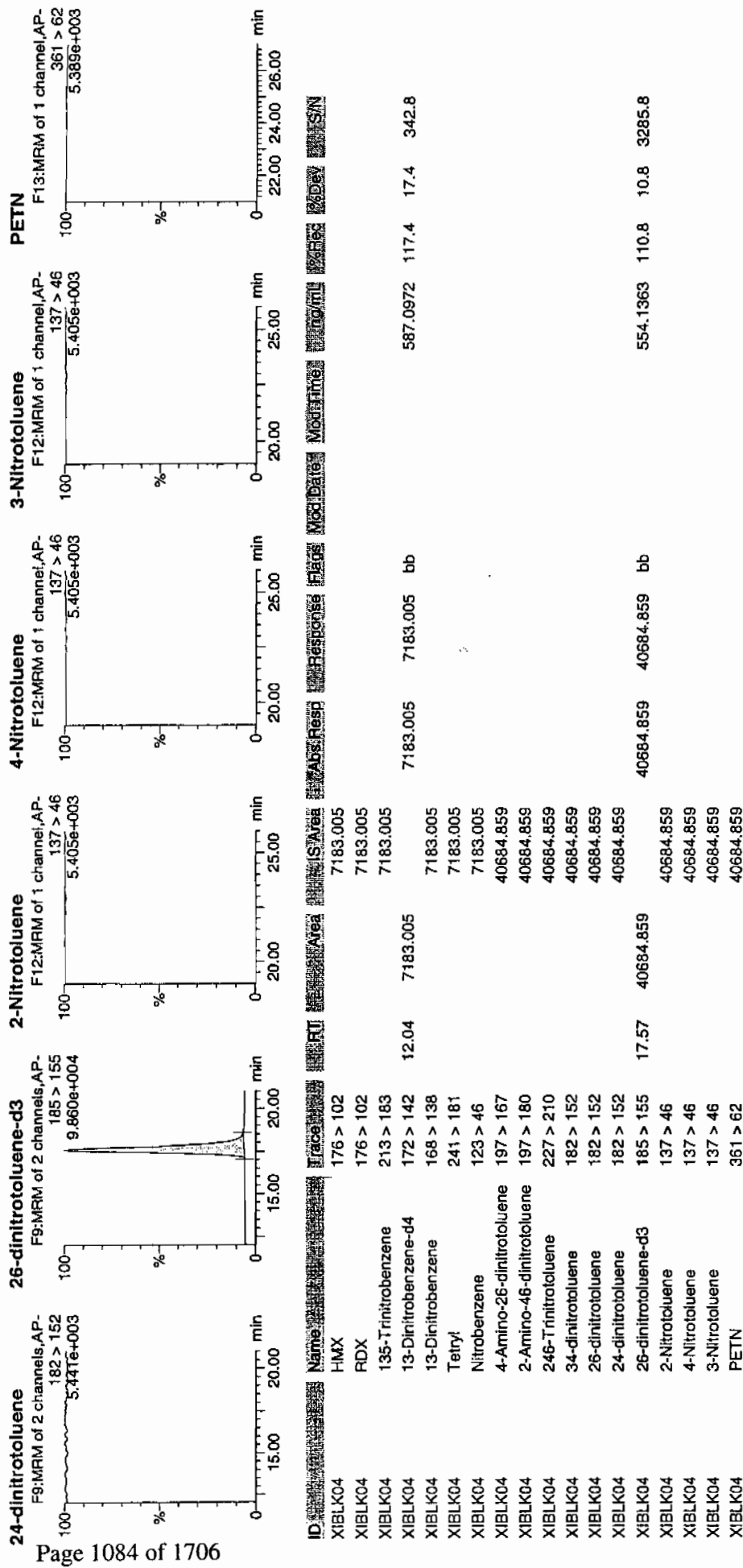


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Mar 27 12:13:02 2010, Page 36 of 87

Dataset: C:\MASSLYNX\New_Exp\PRO1032610expA.qld, Time: Sat Mar 27 12:14 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 27-MAR-10 01:32

GEL Data File: EXP0326023a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	501.621
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	510.777
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326023a

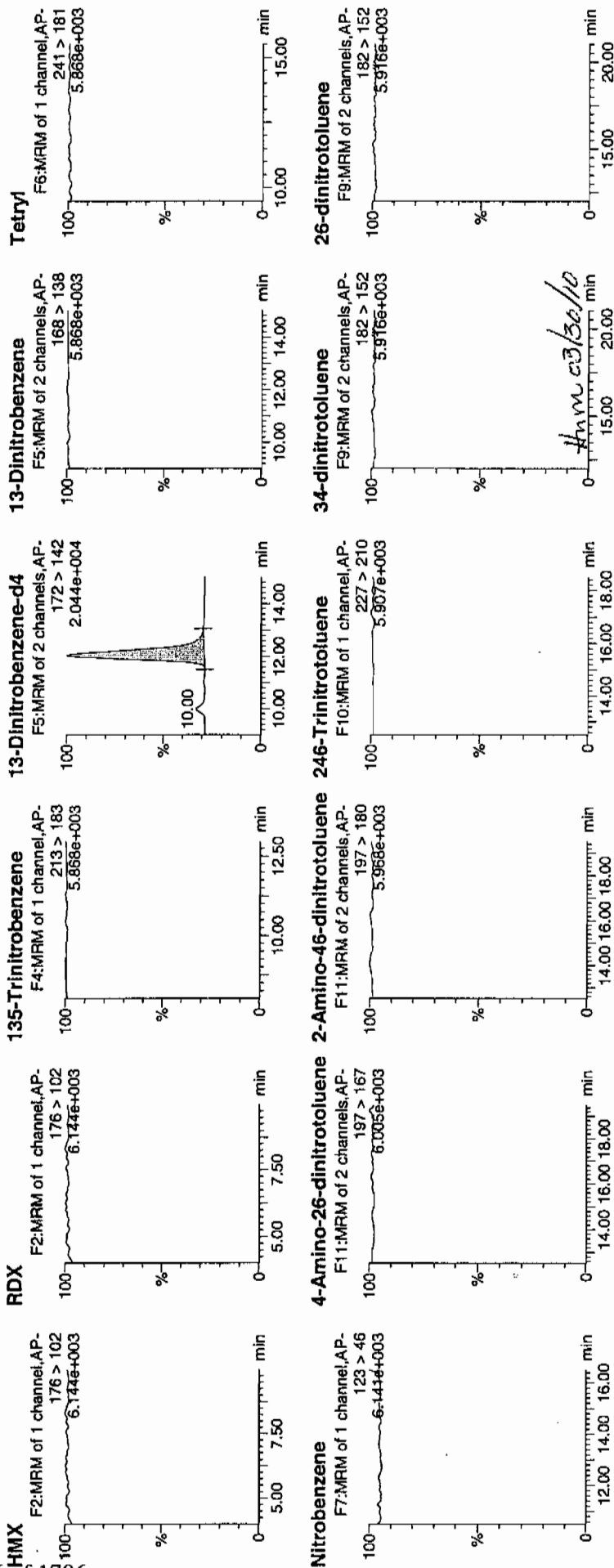
Date: 27-Mar-2010

Time: 01:32:08

ID: XIBLK05

Vial: 1:3,A

MM 03/30/10

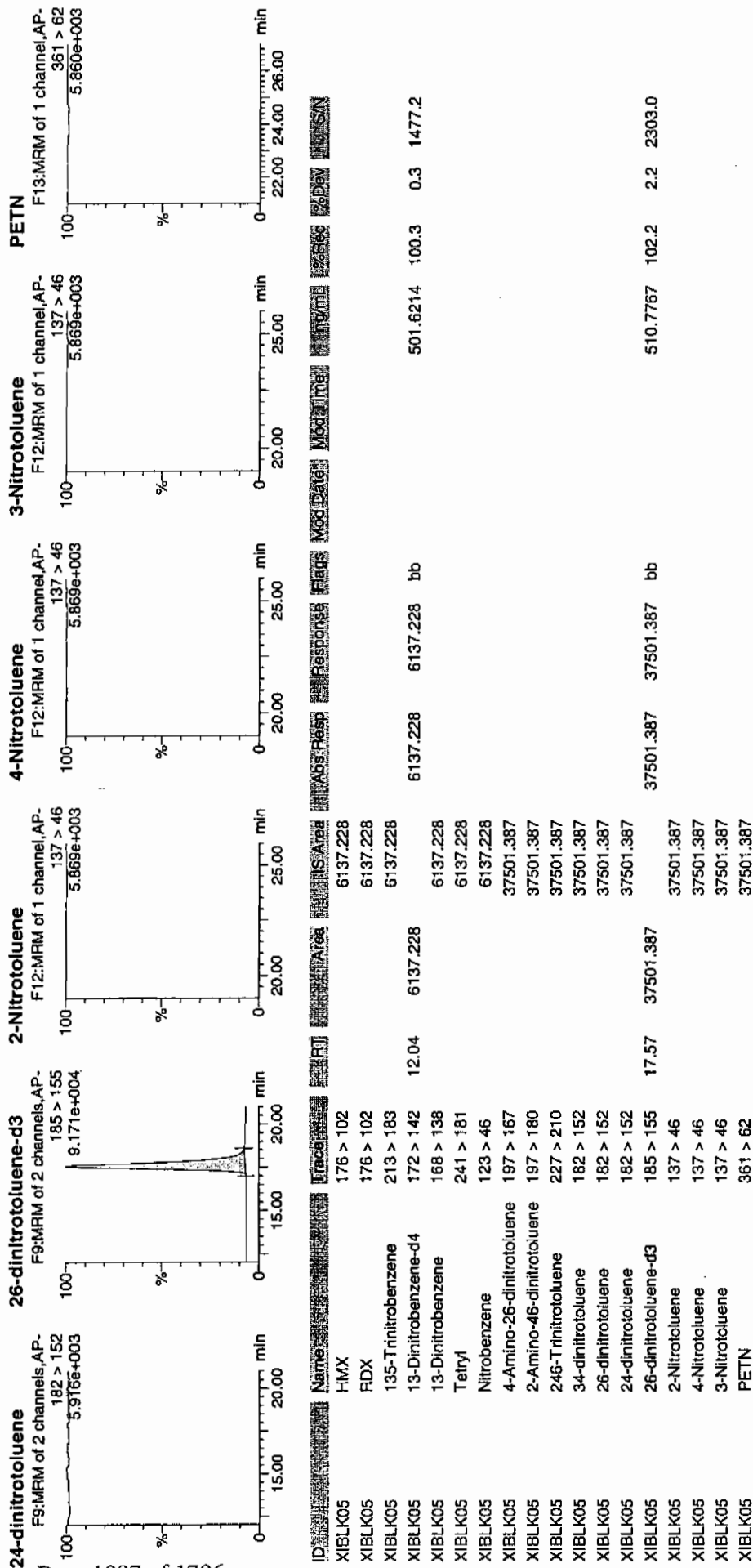


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Mar 27 12:13:02 2010, Page 46 of 87

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 27-MAR-10 02:31

GEL Data File: EXP0326025a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
1,3-Dinitrobenzene-d4	500	524.973
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	574.7
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
1,3,5-Trinitrobenzene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326025a

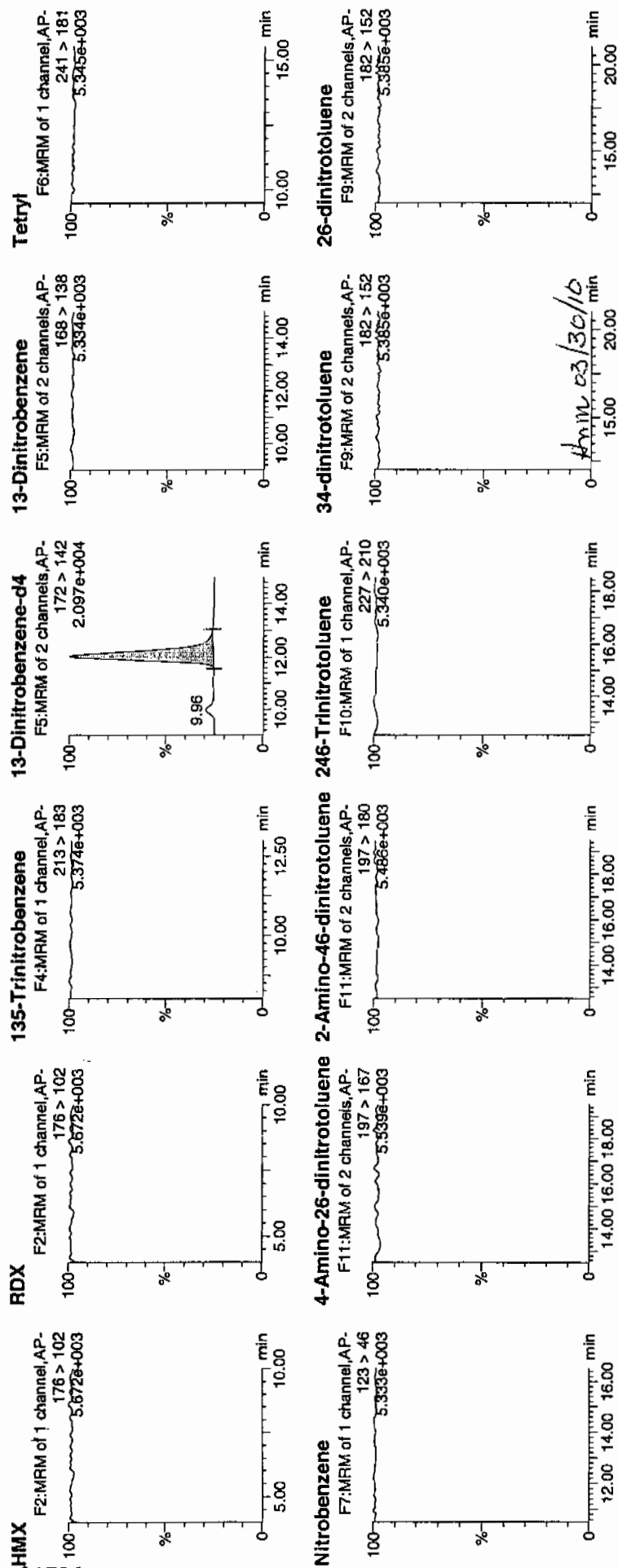
Date: 27-Mar-2010

Time: 02:31:06

ID: XIBLK06

Vial: 1:3,A

MR
5/2/10



Quantify Sample Report

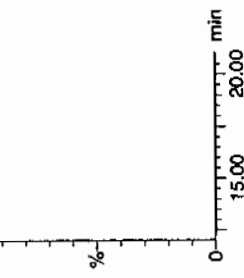
GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Mar 27 12:13:02 2010, Page 50 of 87

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

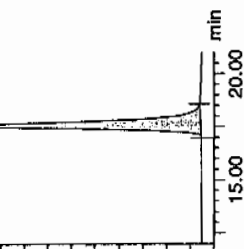
24-dinitrotoluene

F9:MRM of 2 channels,AP-
182 > 152
5.385e+003



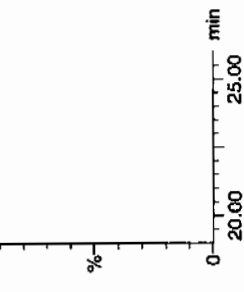
26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-
185 > 155
1.035e+005



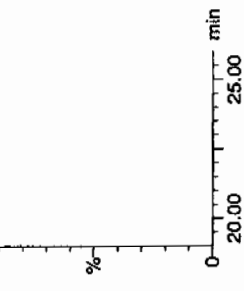
2-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
5.385e+003



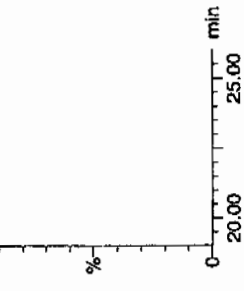
4-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
5.365e+003



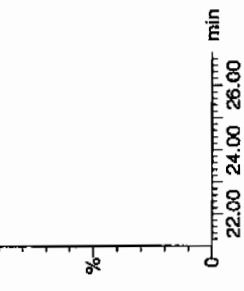
3-Nitrotoluene

F12:MRM of 1 channel,AP-
137 > 46
5.365e+003



PETN

F13:MRM of 1 channel,AP-
361 > 62
5.345e+003



ID	Name	Trace	Area	Area	Area	Response	Flags	ModDate	ModTime	%Rec	%Dev	SN
XIBLK06	HMx	176 > 102	6422.927									
XIBLK06	RDX	176 > 102	6422.927									
XIBLK06	135-Trinitrobenzene	213 > 183	6422.927									
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.03	6422.927		6422.927	bb	524.9728	105.0	5.0	978.8	
XIBLK06	13-Dinitrobenzene	168 > 138		6422.927								
XIBLK06	Tetryl	241 > 181		6422.927								
XIBLK06	Nitrobenzene	123 > 46		6422.927								
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167		6422.927								
XIBLK06	2-Amino-46-dinitrotoluene	197 > 180		42194.641								
XIBLK06	246-Trinitrotoluene	227 > 210		42194.641								
XIBLK06	34-dinitrotoluene	182 > 152		42194.641								
XIBLK06	26-dinitrotoluene	182 > 152		42194.641								
XIBLK06	24-dinitrotoluene	182 > 152		42194.641								
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.57	42194.641		42194.641	bb	574.6998	114.9	14.9	4518.6	
XIBLK06	2-Nitrotoluene	137 > 46		42194.641								
XIBLK06	4-Nitrotoluene	137 > 46		42194.641								
XIBLK06	3-Nitrotoluene	137 > 46		42194.641								
XIBLK06	PETN	361 > 62		42194.641								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 27-MAR-10 03:30

GEL Data File: EXP0326027a

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
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	531.237
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	511.375
2-Amino-4,6-dinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326027a

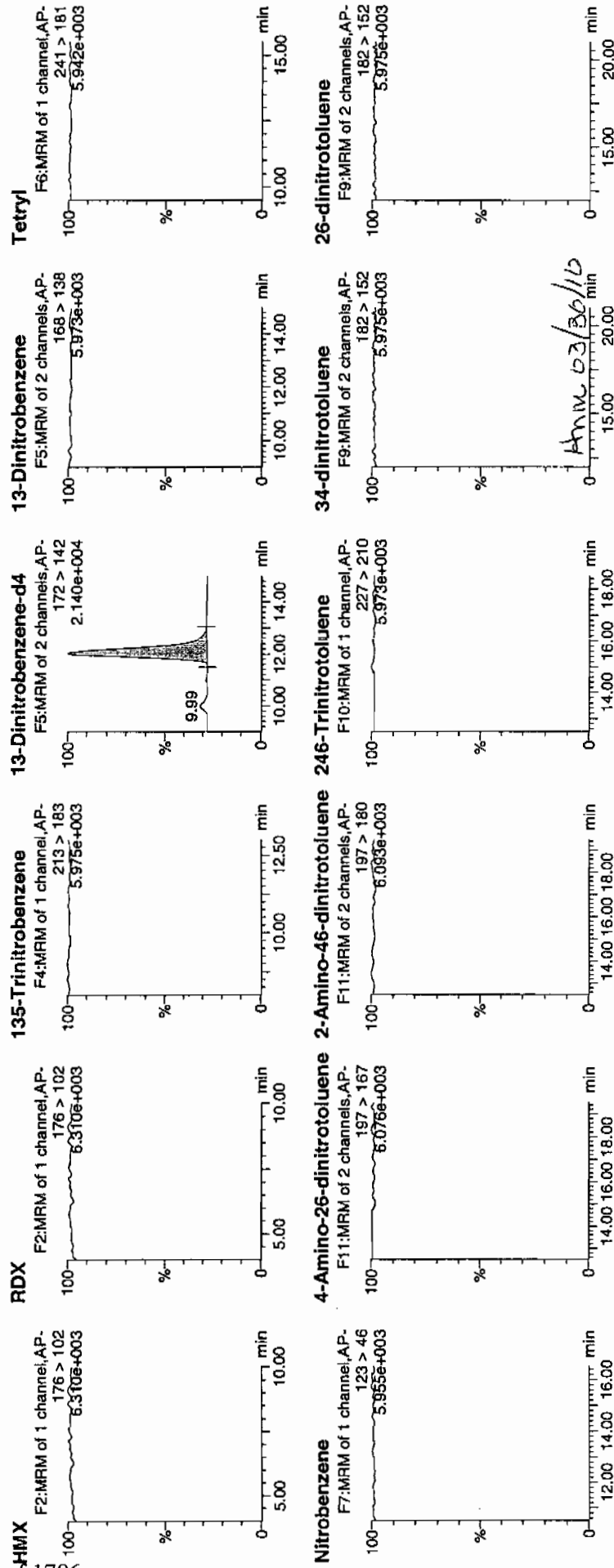
Date: 27-Mar-2010

Time: 03:30:05

ID: XIBLK07

Vial: 1:3,A

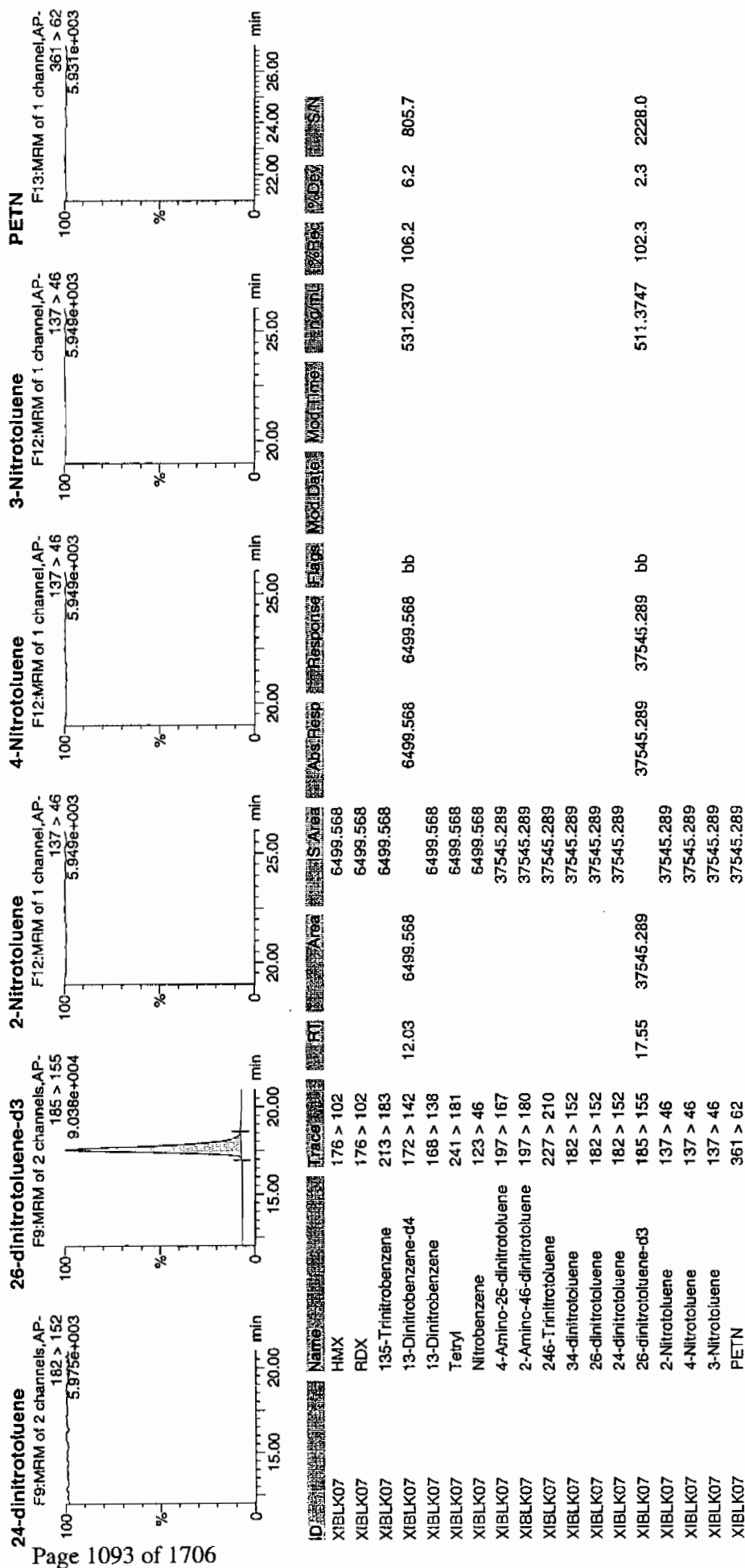
177
3/27/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 27-MAR-10 04:29

GEL Data File: EXP0326029a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	577.486
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	522.052
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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326029a

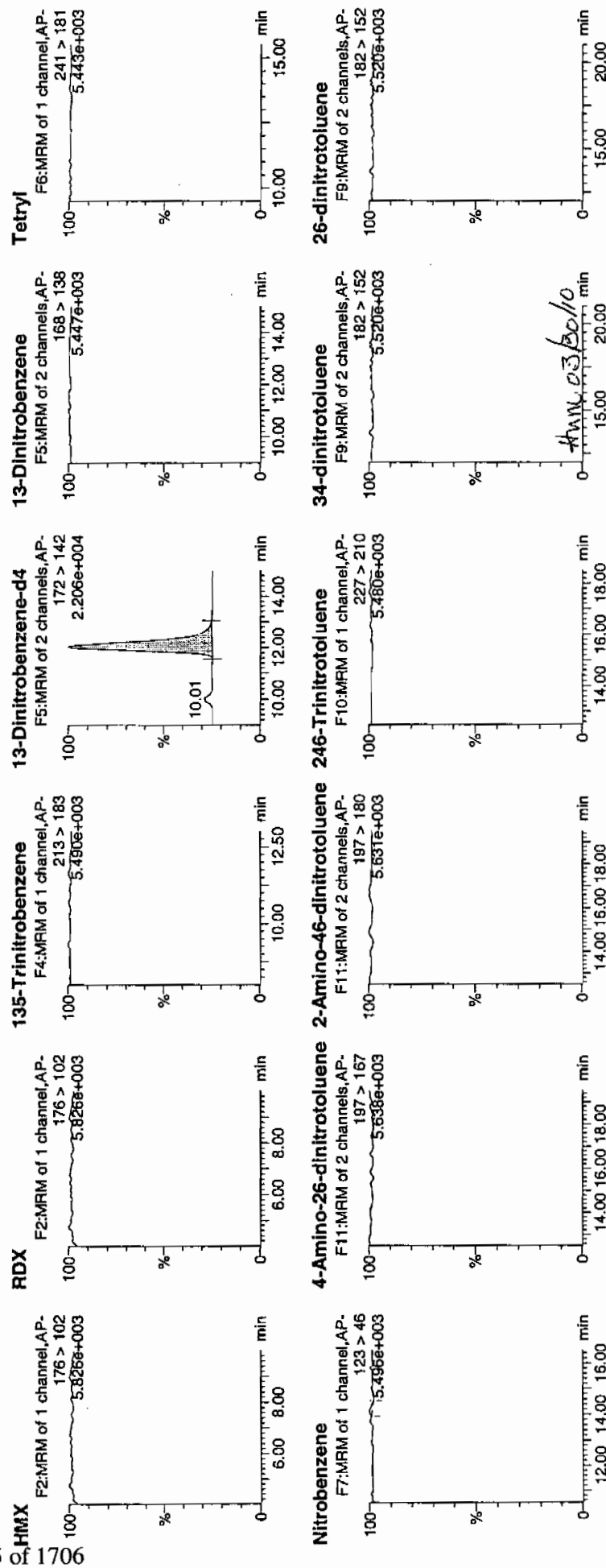
Date: 27-Mar-2010

Time: 04:29:03

ID: XIBLK08

Vial: 1:1,A

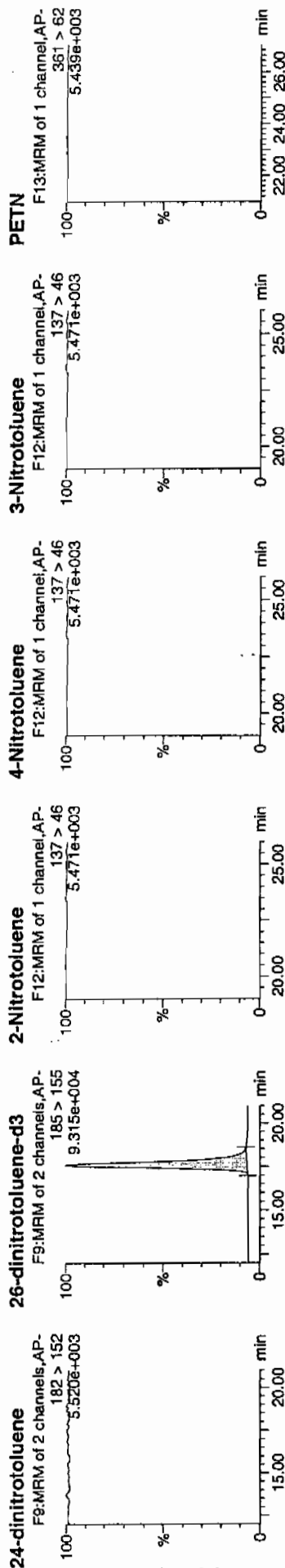
AP-
3/27/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

[illegible]

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 27-MAR-10 10:52

GEL Data File: EXP0326042a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	546.681
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	586.987
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326042a

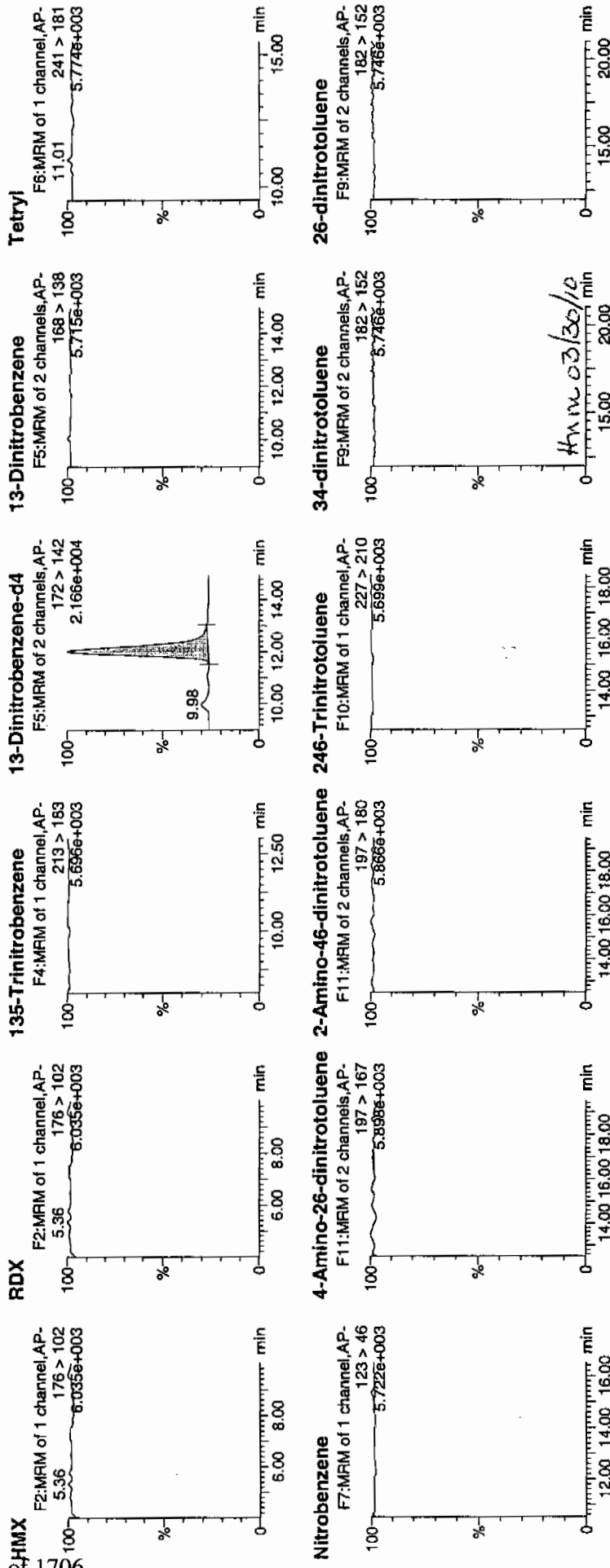
Date: 27-Mar-2010

Time: 10:52:38

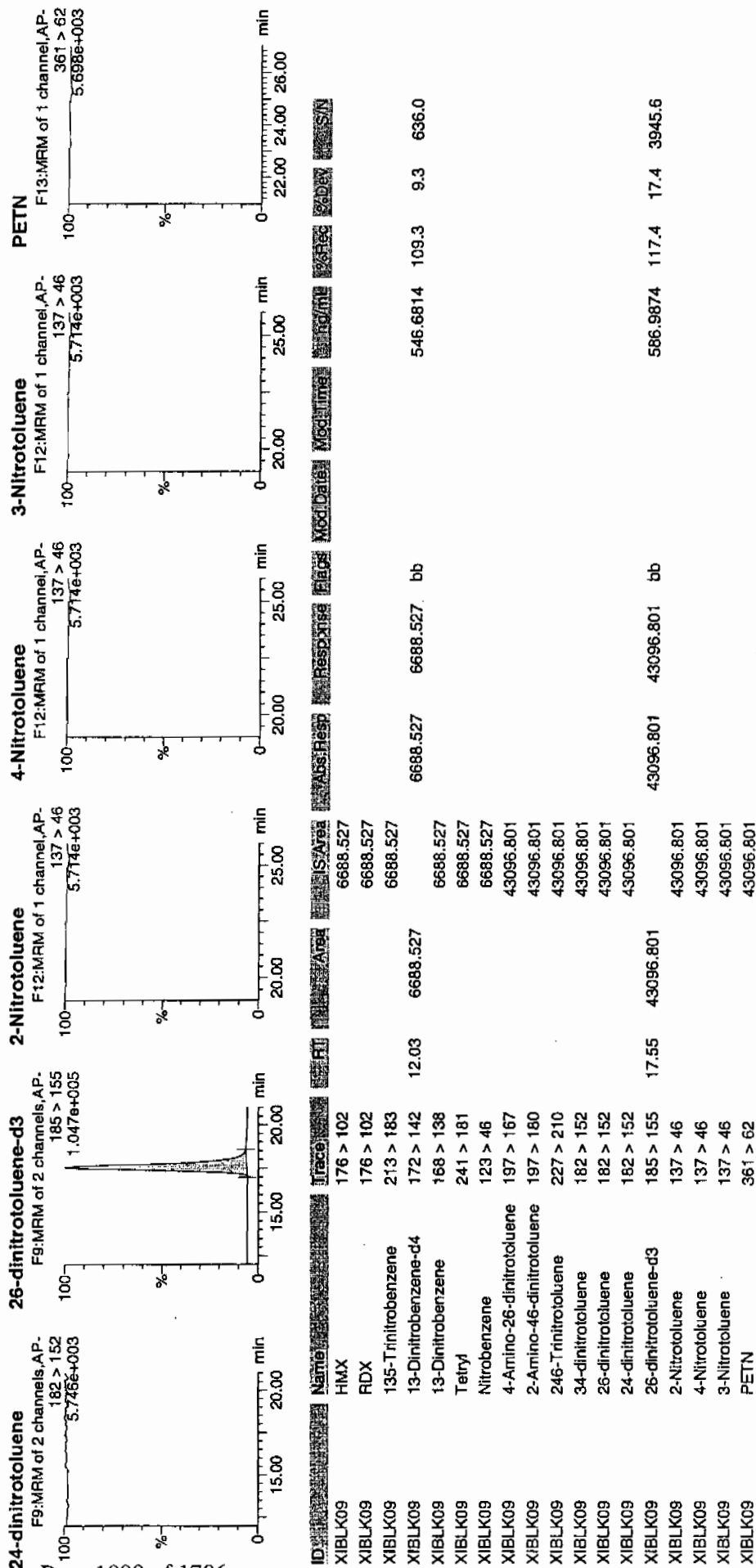
ID: XIBLK09

Vial: 1:1,A

100%
3/27/10



Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 27-MAR-10 16:46

GEL Data File: EXP0326054a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	478.922
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	459.437
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326054a

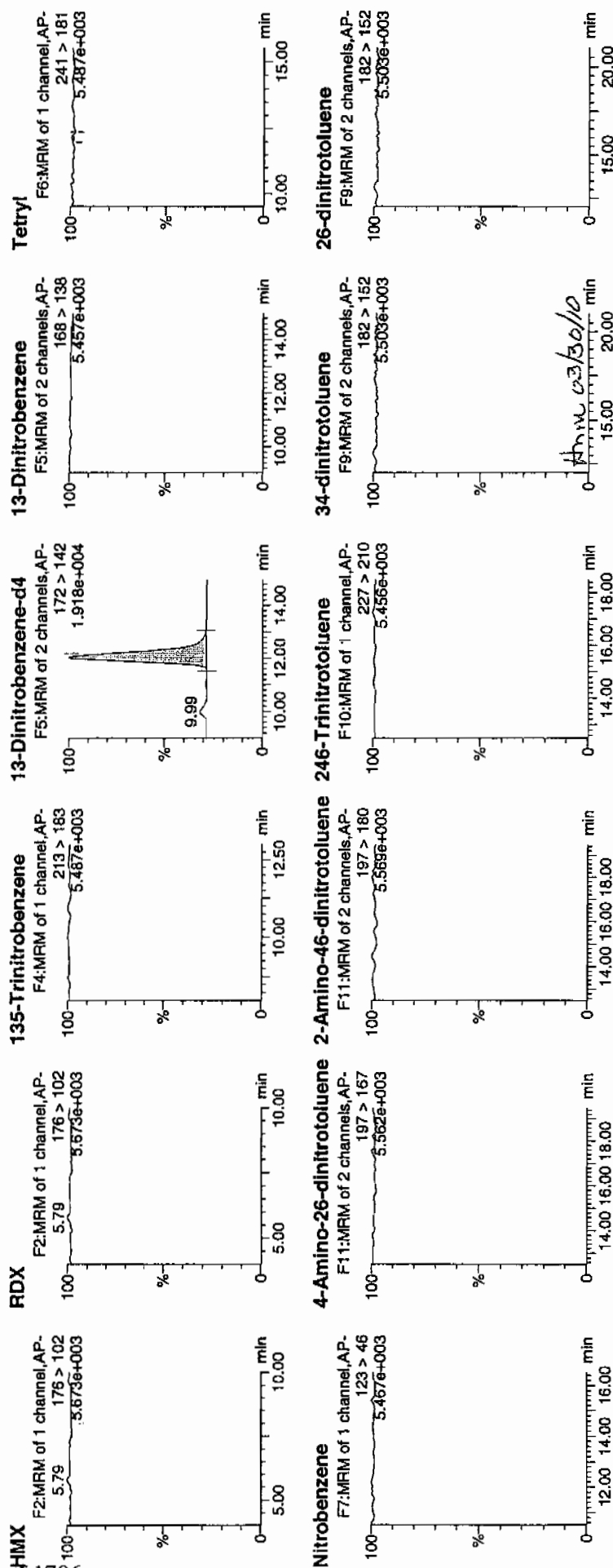
Date: 27-Mar-2010

Time: 16:46:54

ID: XIBLK10

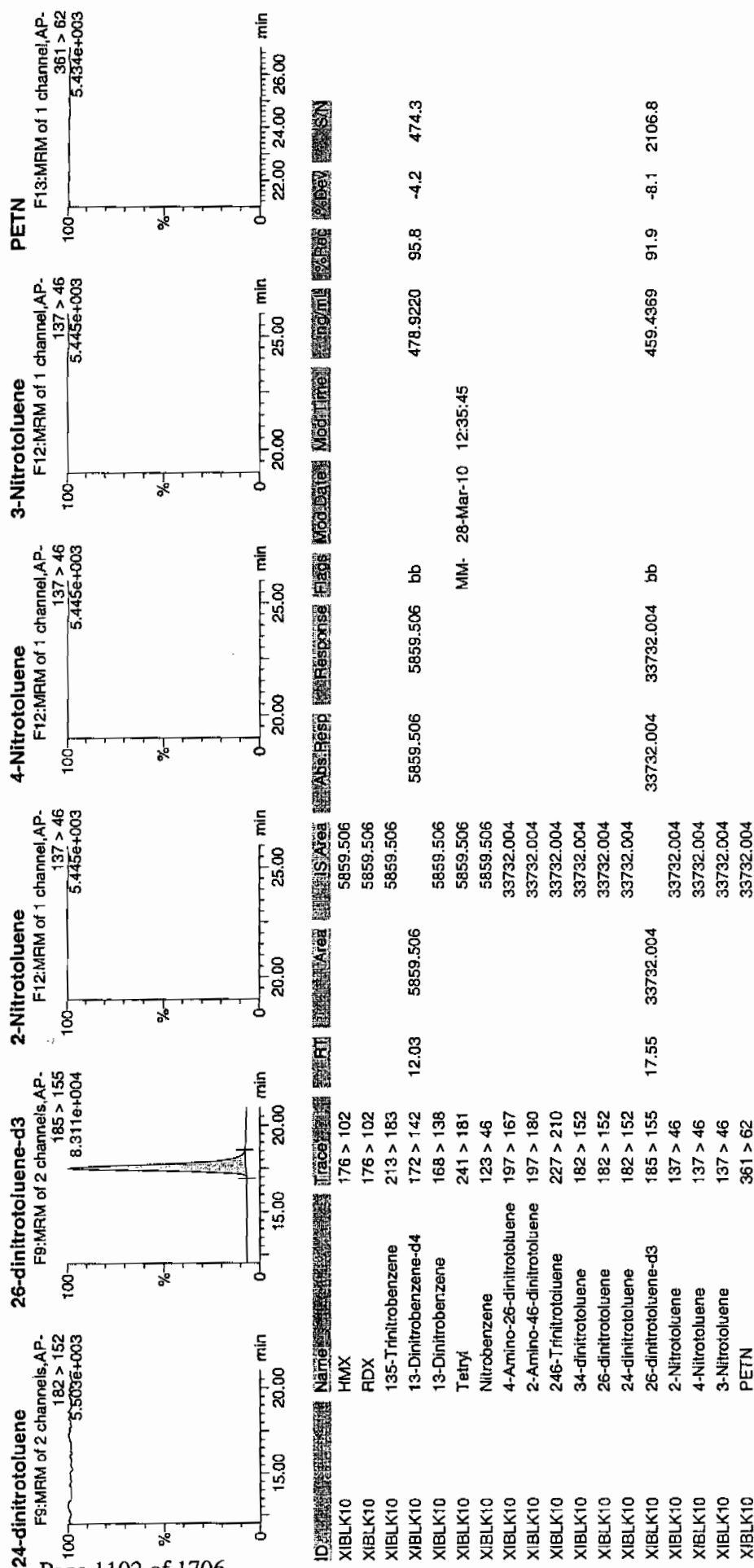
Vial: 1:1,A

Handwritten: 11/11/10



Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

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4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 27-MAR-10 20:13

GEL Data File: EXP0326061a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
1,3-Dinitrobenzene-d4	500	420.804
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	493.576
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
1,3,5-Trinitrobenzene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326061a

Date: 27-Mar-2010

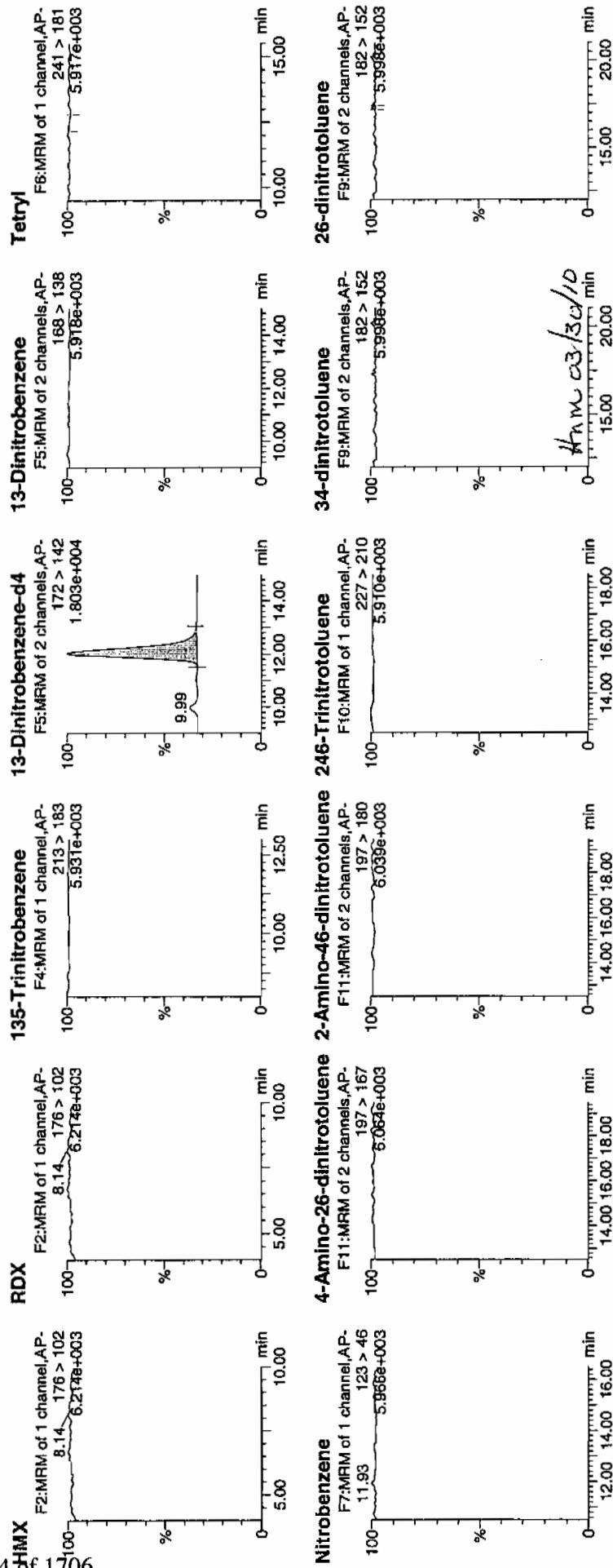
Time: 20:13:26

ID: XIBLK11

Vial: 1:1,A

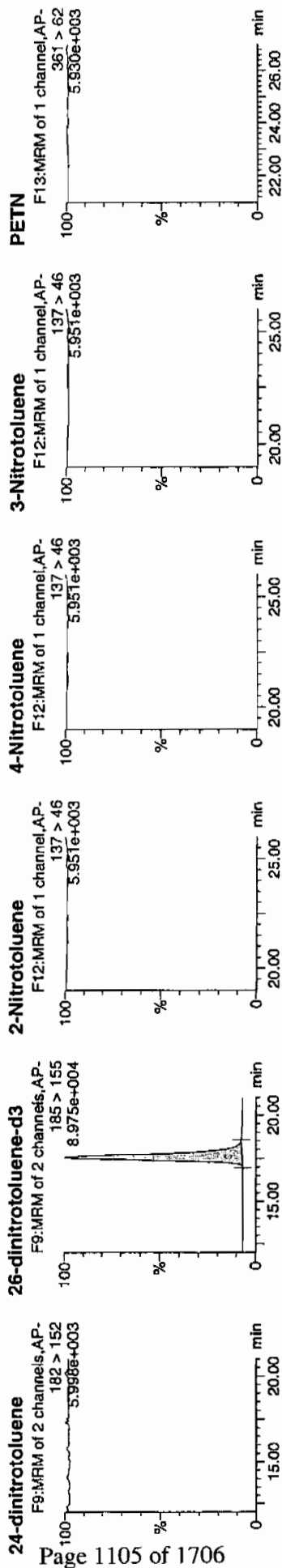
W
2/10/10

04 of 1706



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO032610expA1.qld, Time: Sun Mar 28 12:50:31 2010



ID	Name	Trace	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Dev
XIBLK11	HMX	176 > 102		5148.447							
XIBLK11	RDX	176 > 102		5148.447							
XIBLK11	135-Trinitrobenzene	213 > 183		5148.447							
XIBLK11	13-Dinitrobenzene-d4	172 > 142	12.03	5148.447	5148.447	5148.447	bb	MM-	28-Mar-10	12:35:52	
XIBLK11	13-Dinitrobenzene	168 > 138									
XIBLK11	Tetryl	241 > 181		5148.447							
XIBLK11	Nitrobenzene	123 > 46		5148.447							
XIBLK11	4-Amino-26-dinitrotoluene	197 > 167		36238.535							
XIBLK11	2-Amino-46-dinitrotoluene	197 > 180		36238.535							
XIBLK11	246-Trinitrotoluene	227 > 210		36238.535							
XIBLK11	34-dinitrotoluene	182 > 152		36238.535							
XIBLK11	26-dinitrotoluene	182 > 152		36238.535							
XIBLK11	24-dinitrotoluene	182 > 152		36238.535							
XIBLK11	26-dinitrotoluene-d3	185 > 155	17.55	36238.535	36238.535	36238.535	bb	MM-	28-Mar-10	12:46:08	
XIBLK11	2-Nitrotoluene	137 > 46		36238.535							
XIBLK11	4-Nitrotoluene	137 > 46		36238.535							
XIBLK11	3-Nitrotoluene	137 > 46		36238.535							
XIBLK11	PETN	361 > 62									
										493.5764	98.7
										-1.3	2643.7

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 16-MAR-10 10:39

GEL Data File: EXS03160010.wiff

Instrument ID: LCMSMS

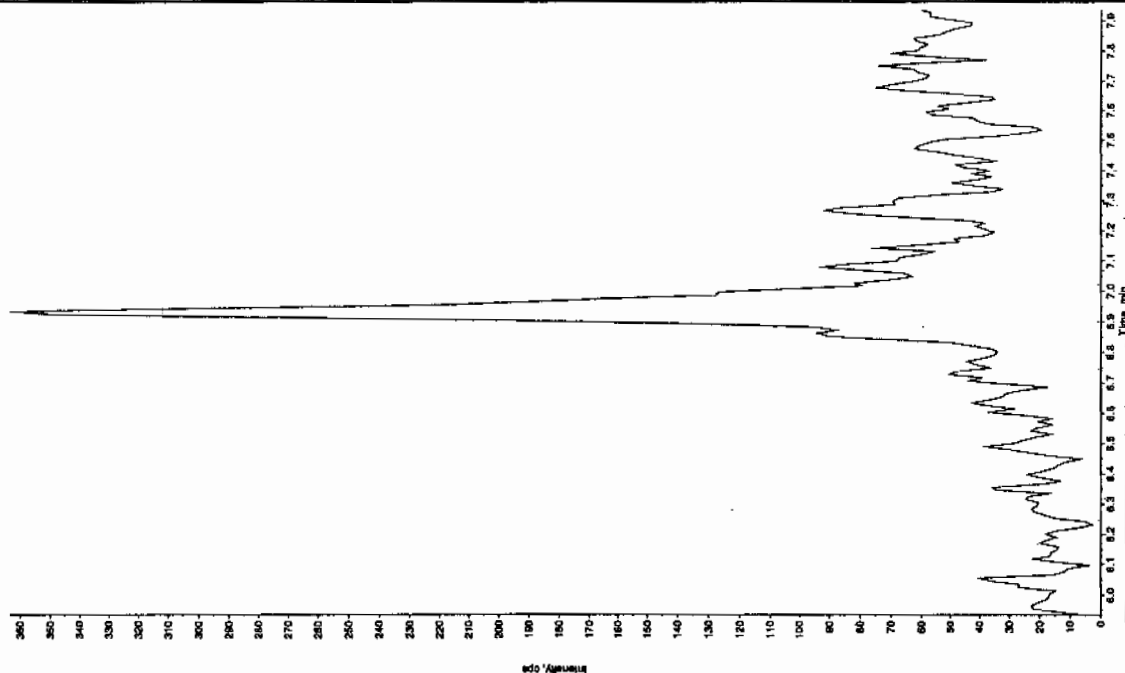
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.31
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/18/10

Sample Name: 'XBLK02' Sample ID: 'JILLER' File: 'EX503160010.wif'
 Peak Name: 'TATB' Mass(es): '267.2204 8 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

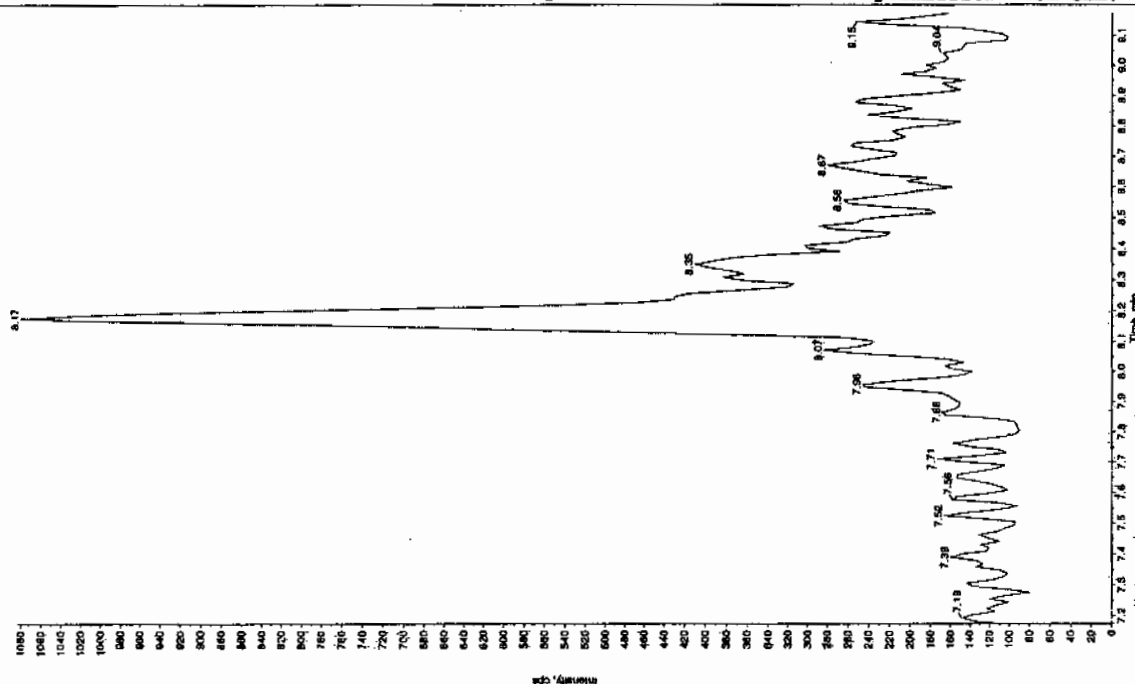
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No



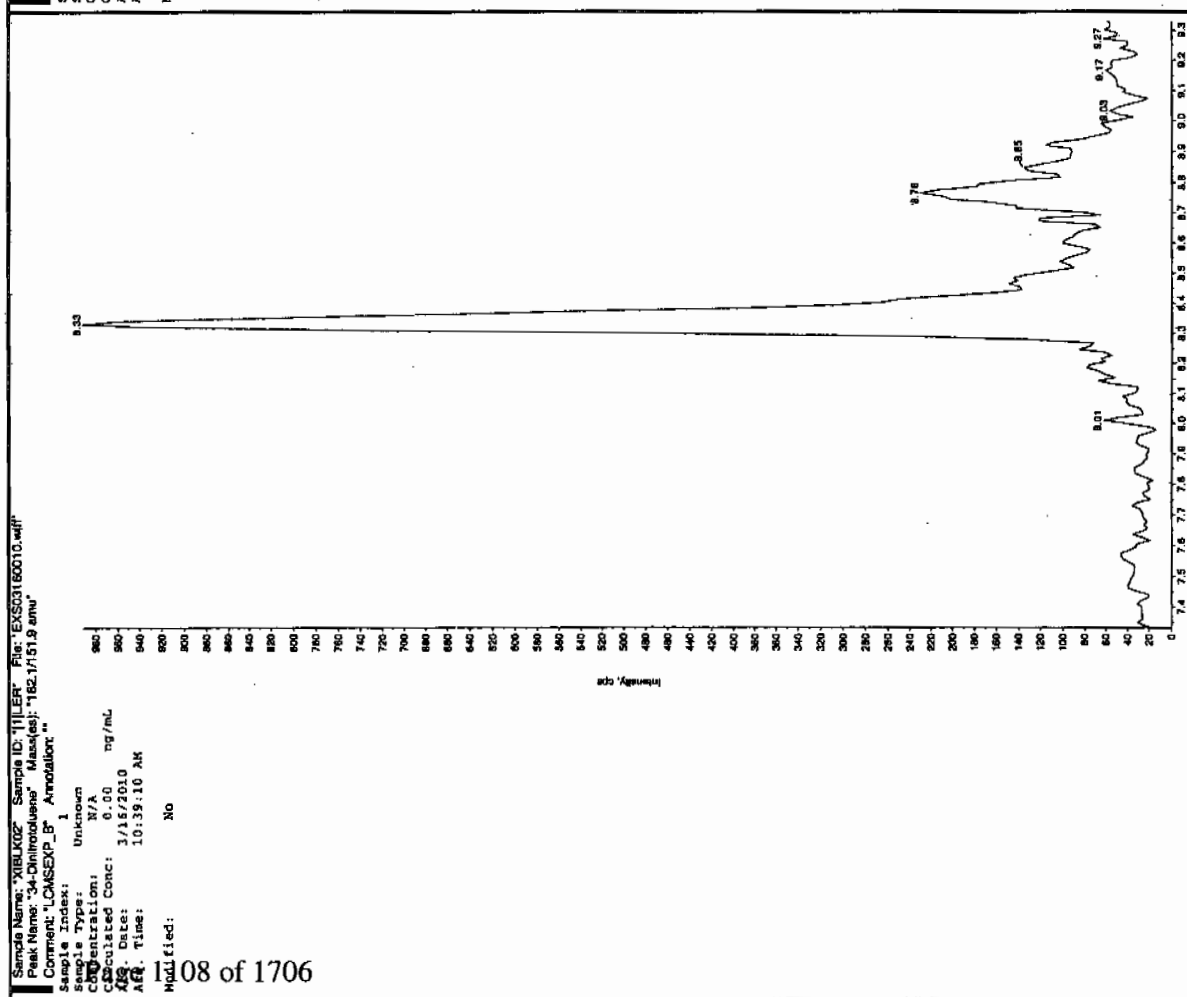
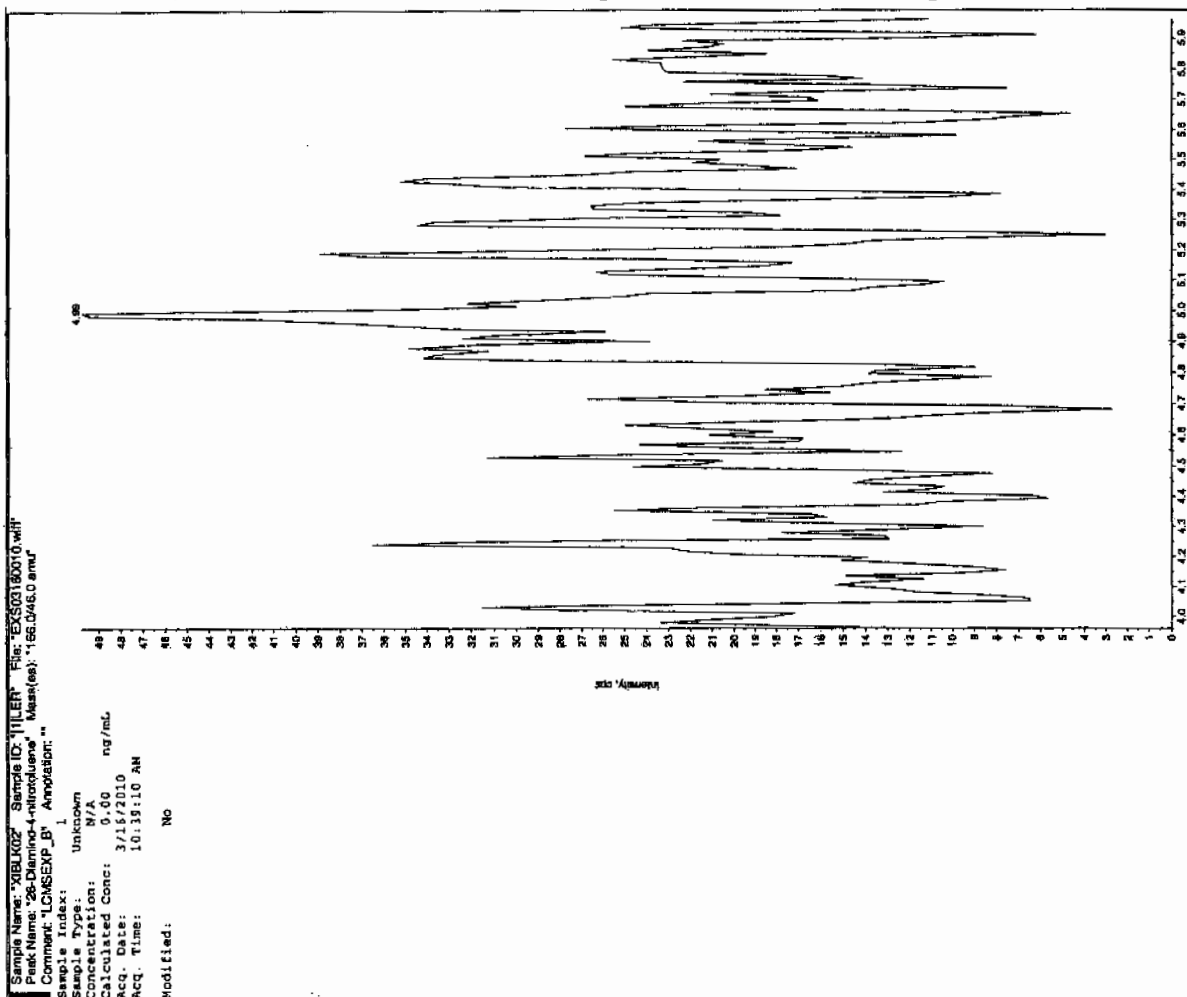
107 of 1706

Sample Name: 'XBLK02' Sample ID: 'JILLER' File: 'EX503160010.wif'
 Peak Name: '35-Dinitrocellulose' Mass(es): '182.048 0 amu'
 Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No

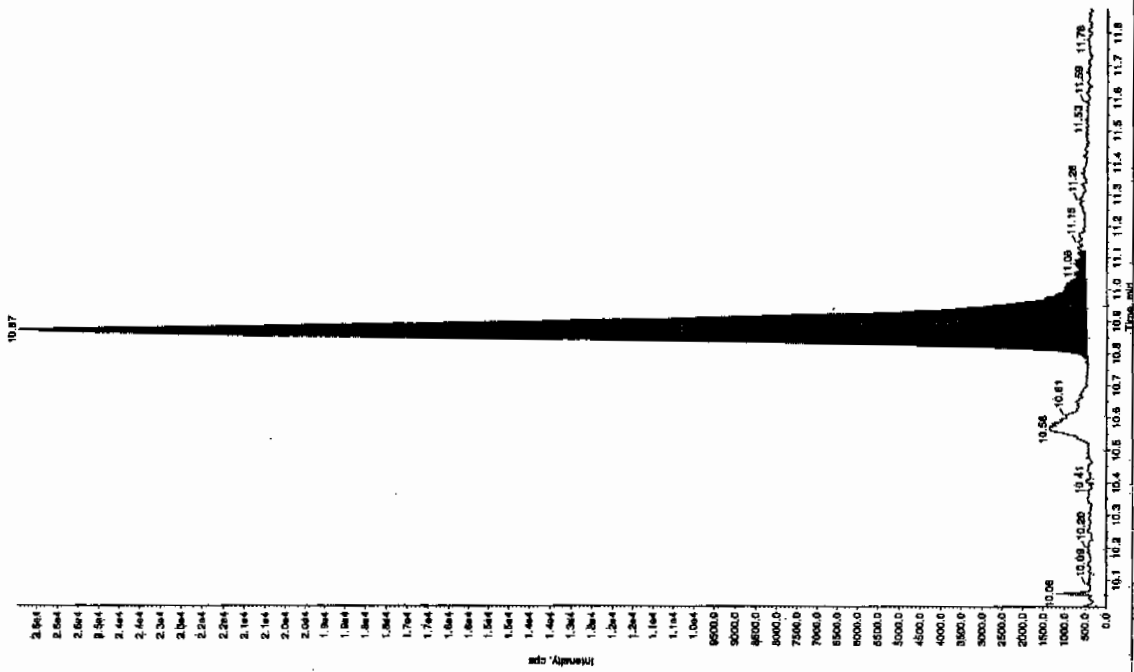


for 3/18/10



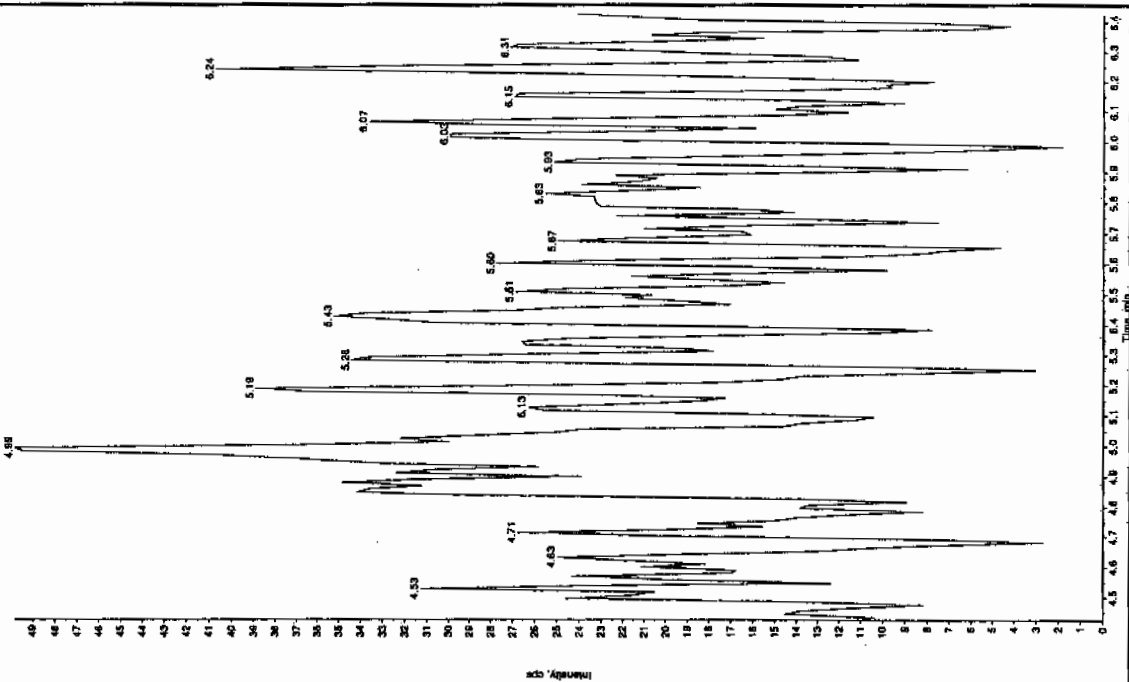
Sample Name: "XBLK02" Sample ID: "JILER" File: "EX503160010.wif"
 Peak Name: "bis(crocylyl) phosphole" Mass(es): "355.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 3.31 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IGA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.90 sec
 Smoothing Width: 30.0 points
 SN Min: 3.0
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.10e+005 counts
 Height: 26001.421 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XBLK02" Sample ID: "JILER" File: "EX503160010.wif"
 Peak Name: "24-Diamino-5-nitroindane" Mass(es): "186.045.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 16-MAR-10 11:10

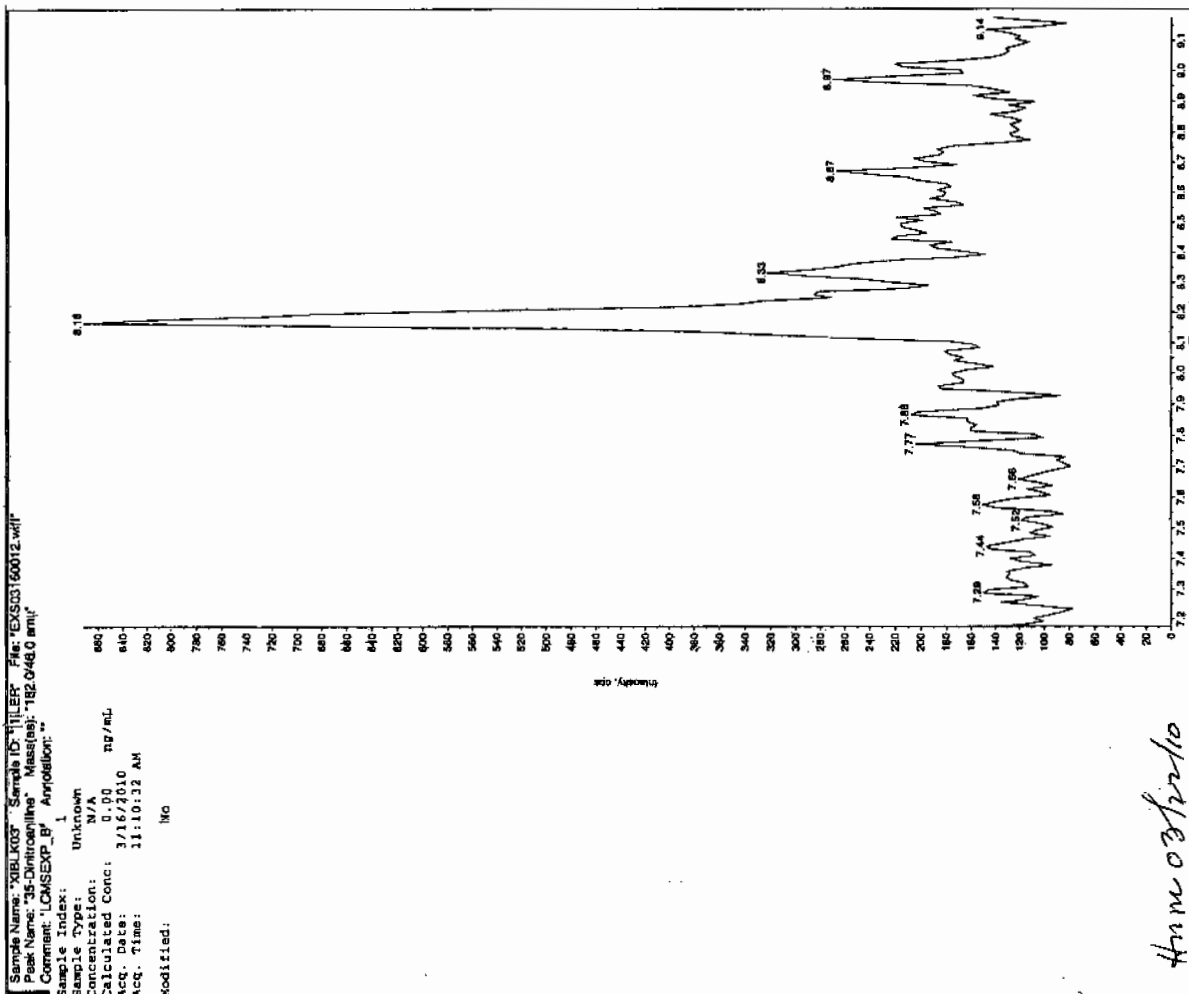
GEL Data File: EXS03160012.wiff

Instrument ID: LCMSMS

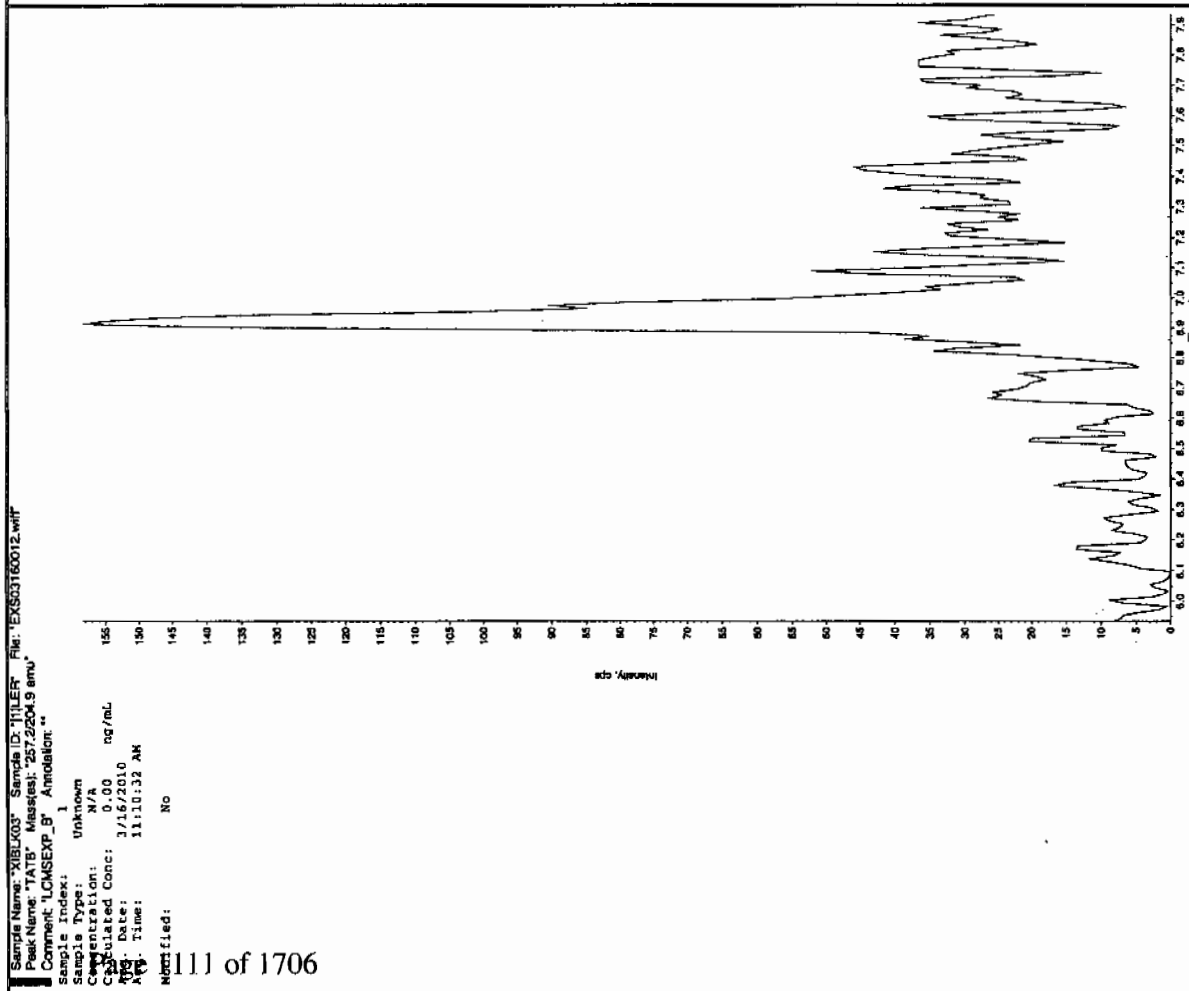
Column: Phenomenex Ultracarb 5u ODS(20)

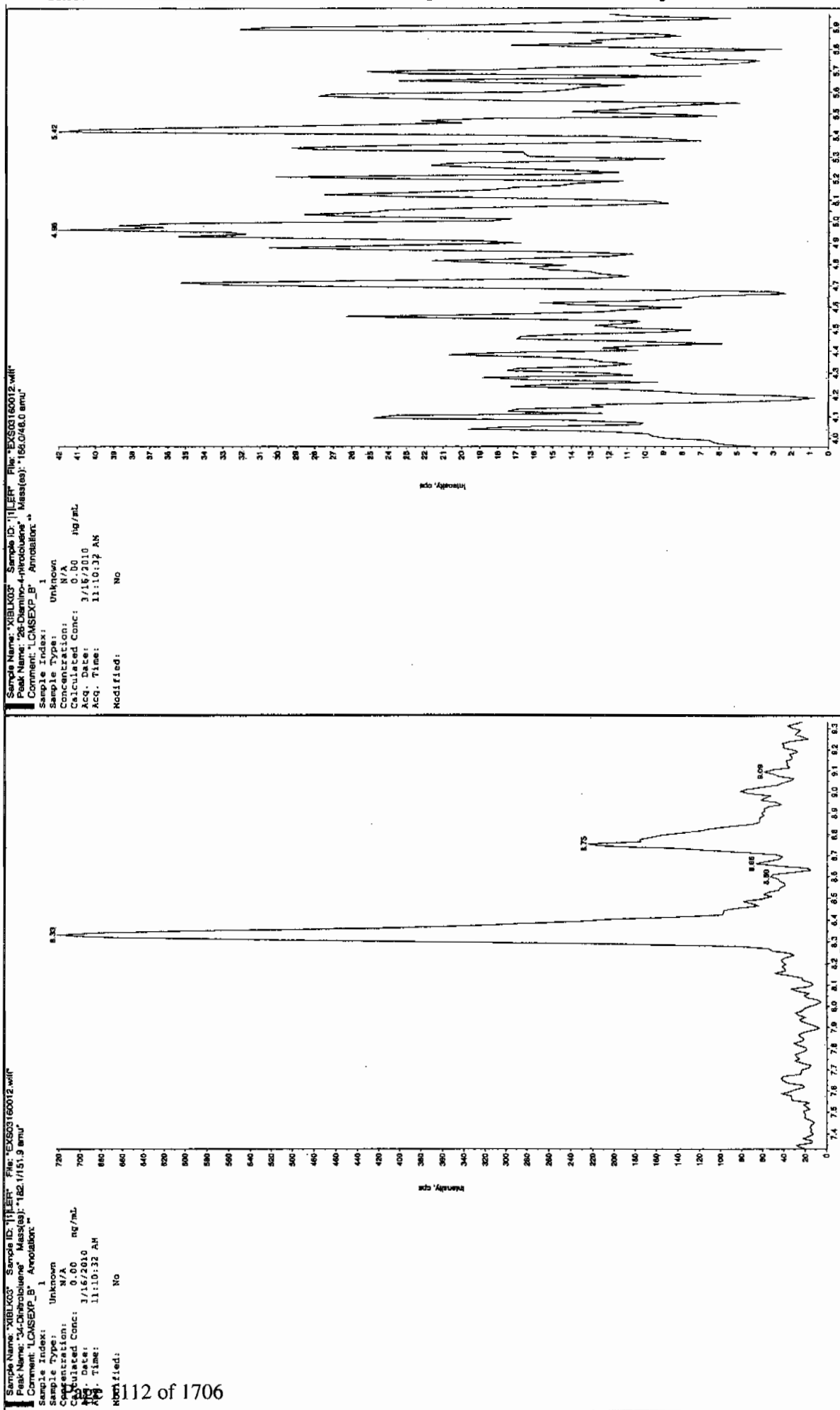
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Law 3/18/10



Law 3/18/10





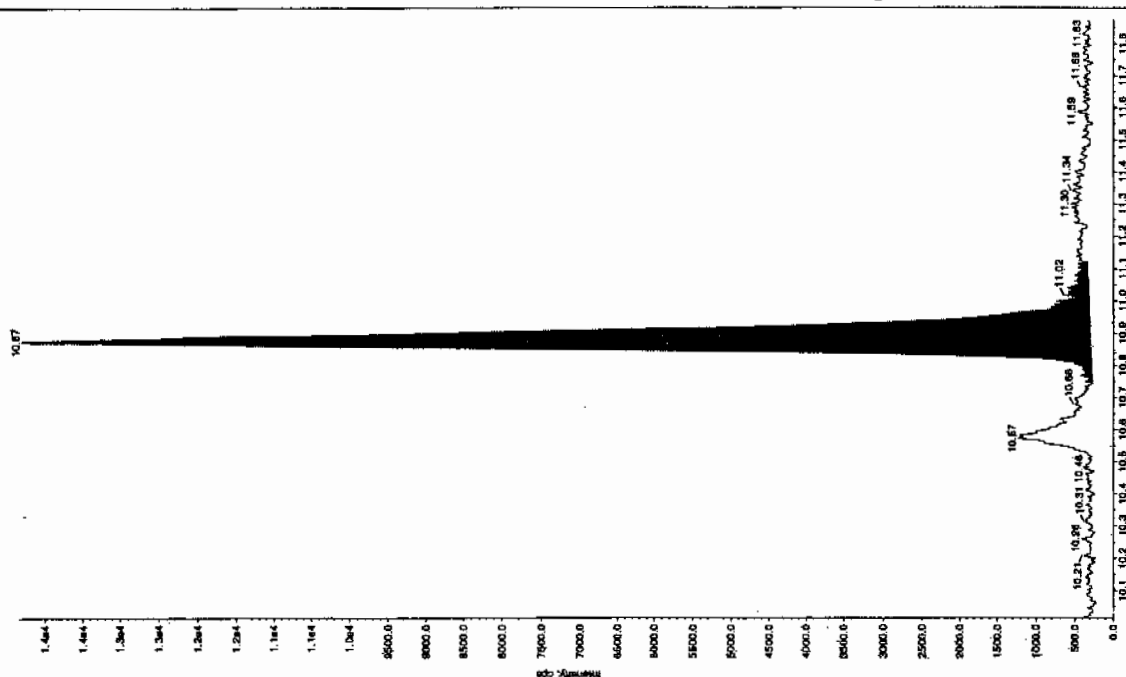
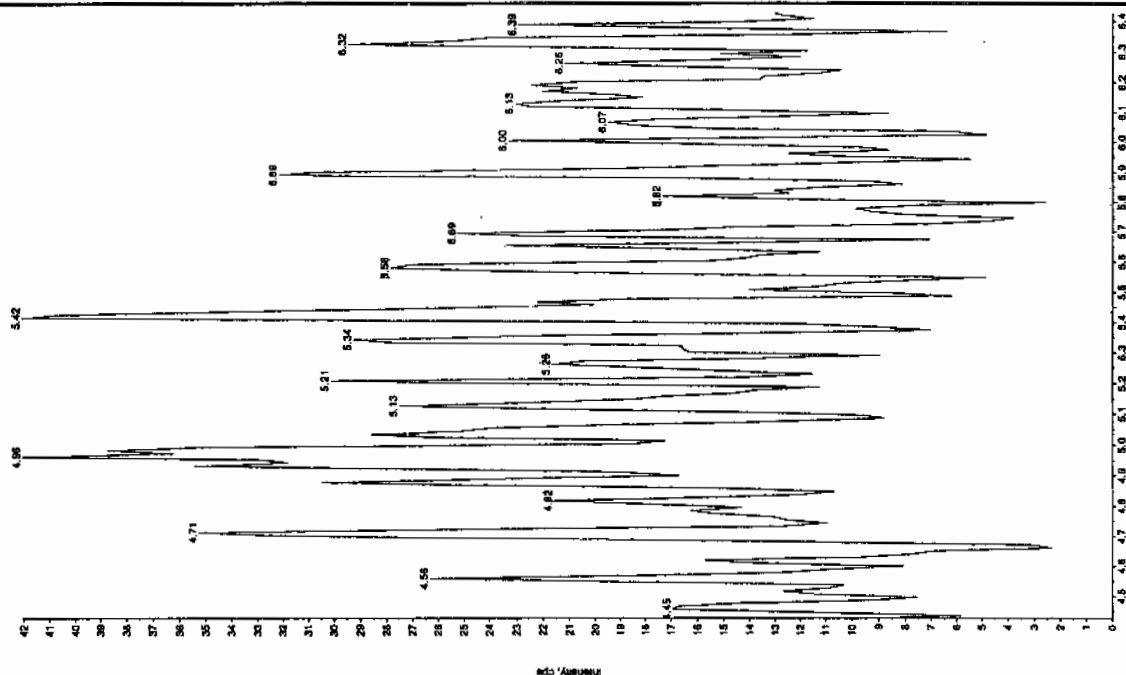
Sample Name: 'X15LX03' Sample ID: '11LX' File: 'EXS03160012.wiff'
Peak Name: '24-Diamino-6-nitroclouene' Mass(as): '166.046.0 amu'
Comment: 'LC/MS/EXP B' Annotation: ''

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: < 0
Acq. Date: 3/16/2010
Exp. Q. Time: 11:10:32 AM

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Exp. Date:	3/16/2010
Exp. Time:	11:10:32 AM

1.484	1.384	1.284	1.184	1.084
Modified:	No	Valley	10.9	min
Proc. Algorithm:	IntelliQuan - IOA	Station Time:	10.9	min
In. Peak Height:	8000.00	Secs:	5.81e+004	Counts
Un. Peak Width:	sec	Height:	14021.487	cps
Un. Peak Width:	0.00	Ear Time:	10.7	min
Smoothing Width:	3	Ear Time:	11.1	min
F window:	30.0	Ear Time:	11.1	min
Expected RT:	10.9	Ear Time:	11.1	min
Is Relative RT:	No	Ear Time:	11.1	min

Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 16-MAR-10 14:34

GEL Data File: EXS03160025.wiff

Instrument ID: LCMSMS

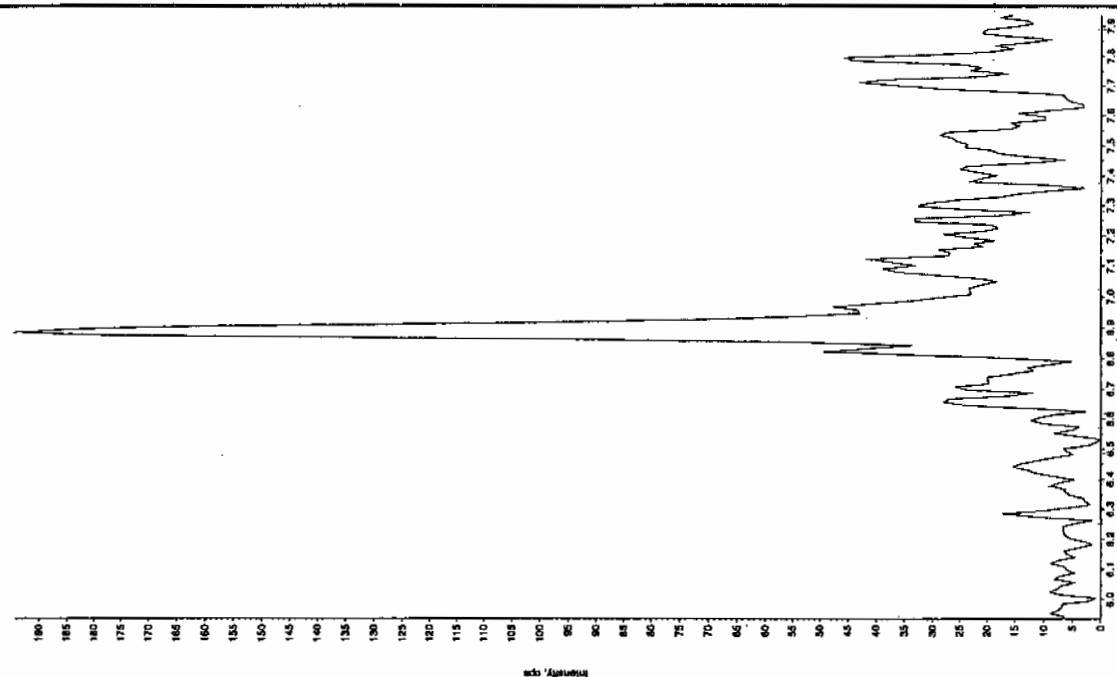
Column: Phenomenex Ultracarb 5u ODS(20)

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

Jan 31/6/10

Sample Name: "XBLV04" Sample ID: "111111" File: "EXS03160025.wif"
 Peak Name: "55-Dinitrofluorobenzene" Mass(es): "182.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/15/2010
 Acq. Time: 2:34:17 PM
 Modified: No

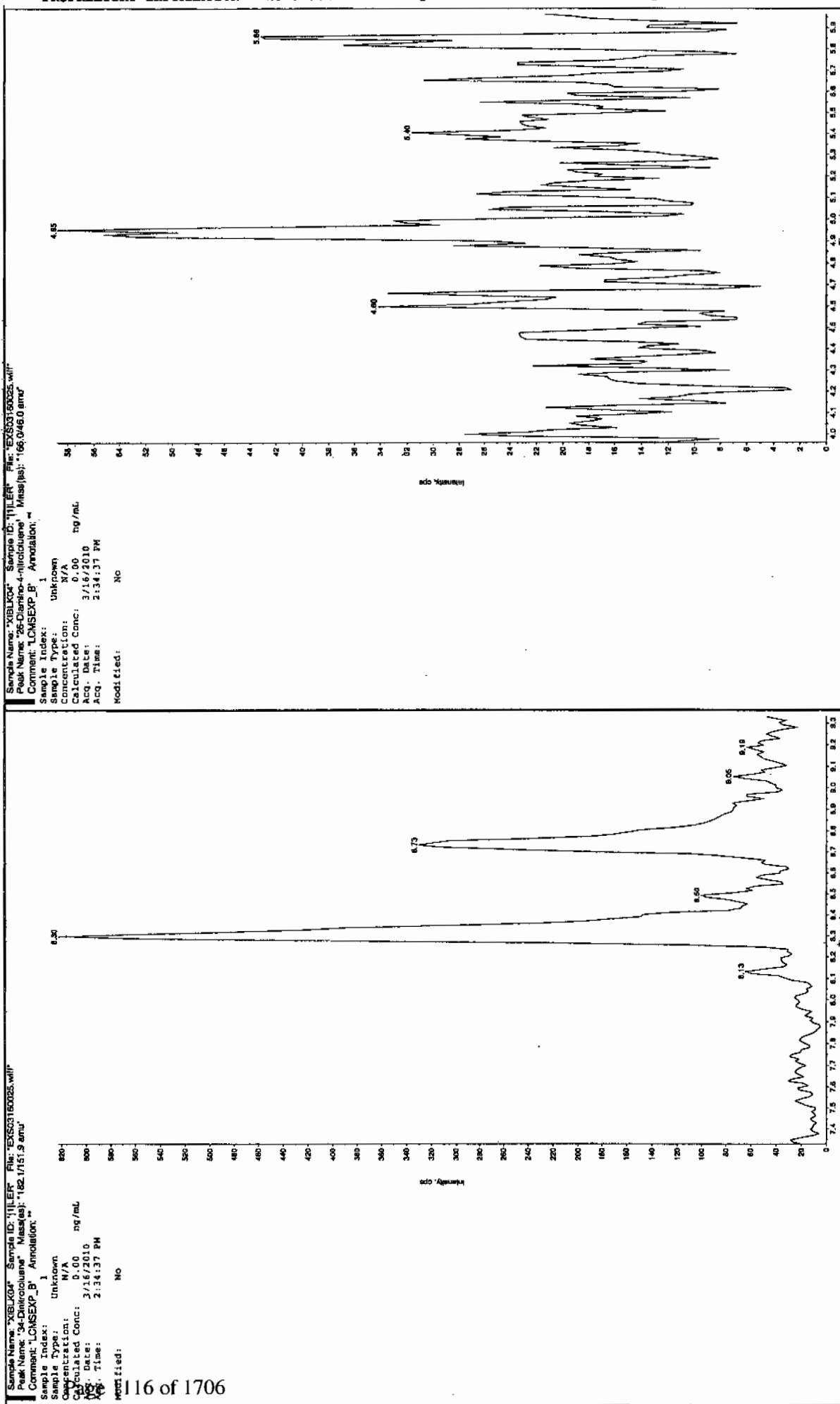


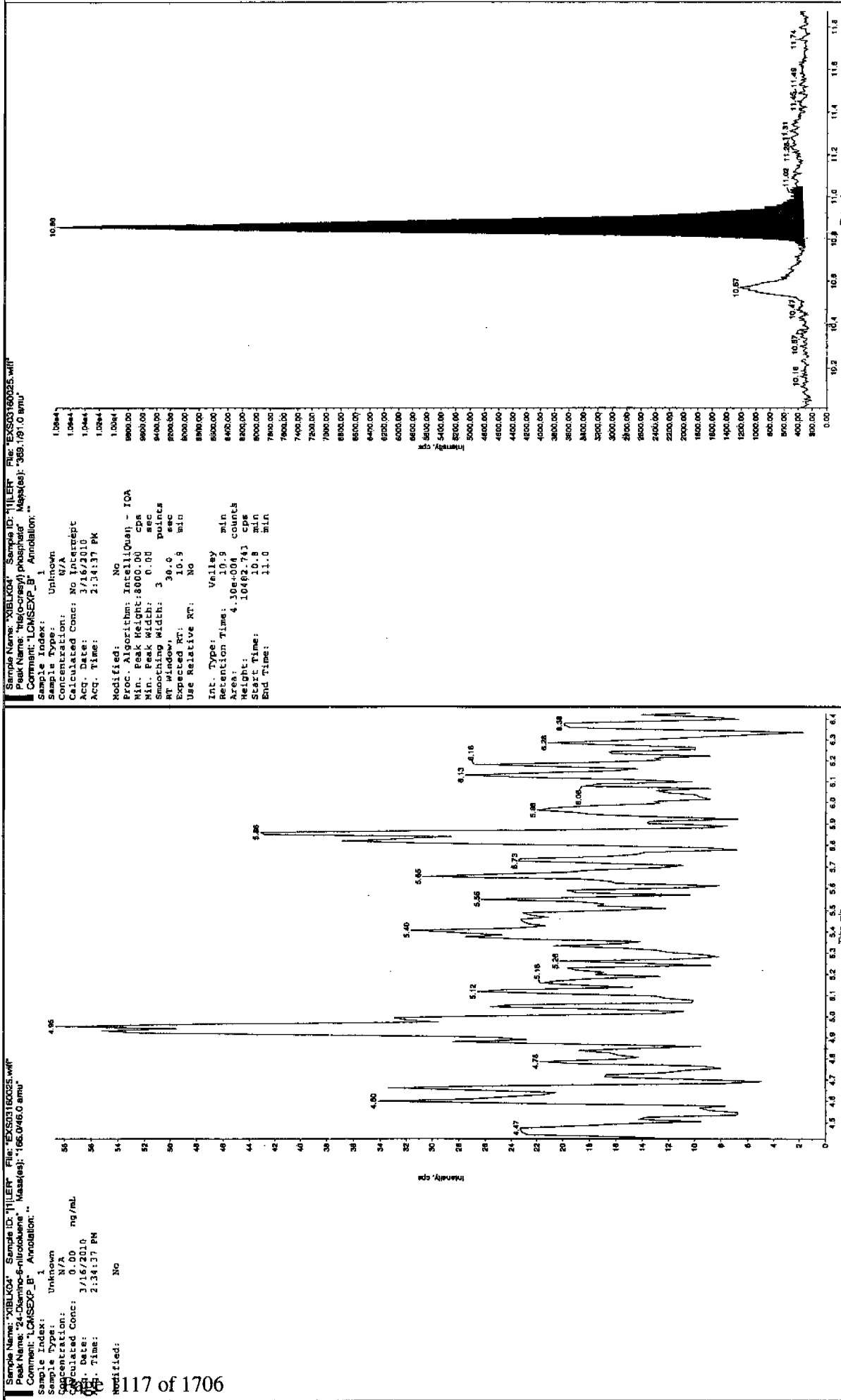
Sample Name: "XBLV04" Sample ID: "111111" File: "EXS03160025.wif"
 Peak Name: "1ATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMS-EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/15/2010
 Acq. Time: 2:34:17 PM
 Modified: No



Jan 03/12/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 16-MAR-10 21:23

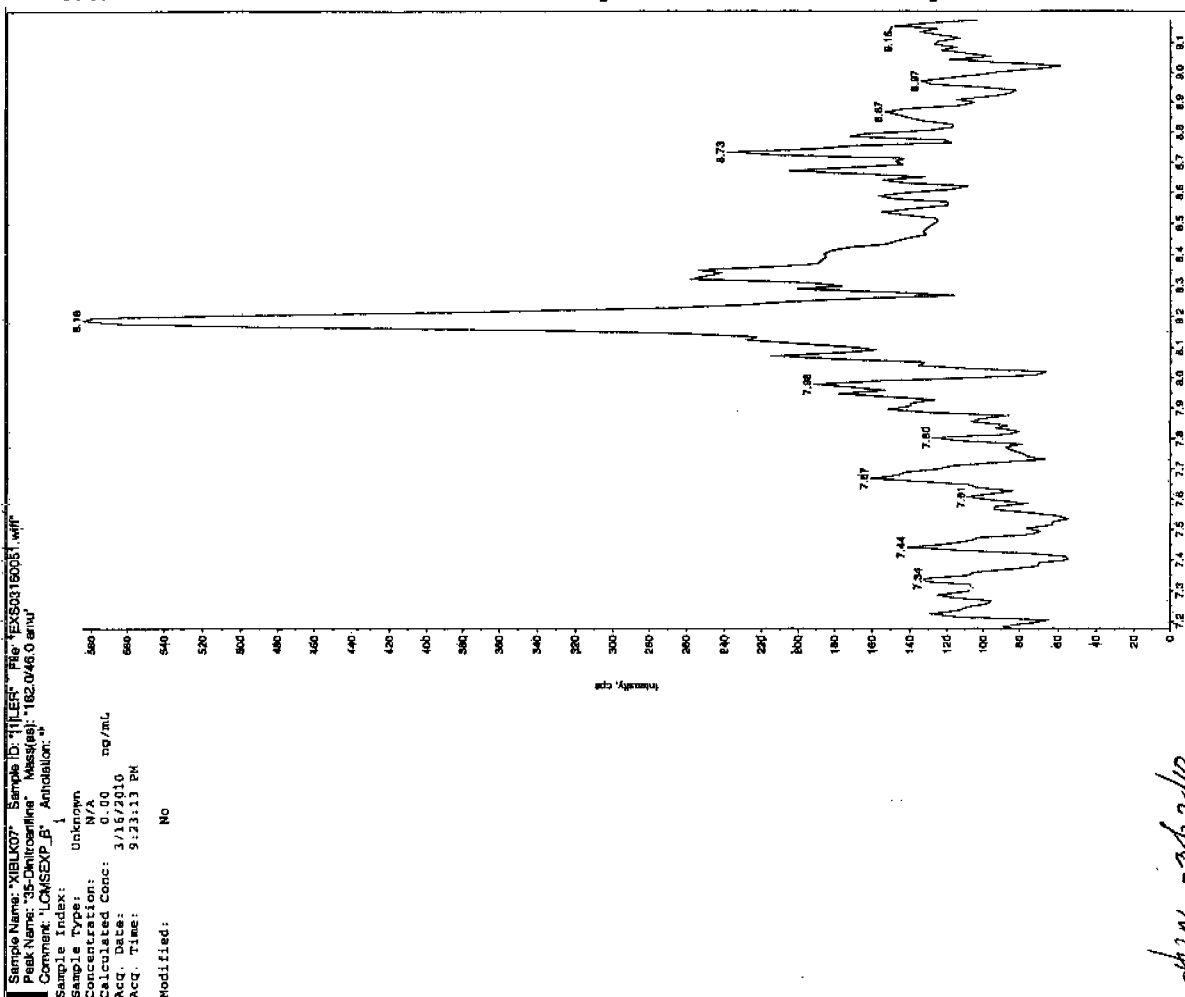
GEL Data File: EXS03160051.wiff

Instrument ID: LCMSMS

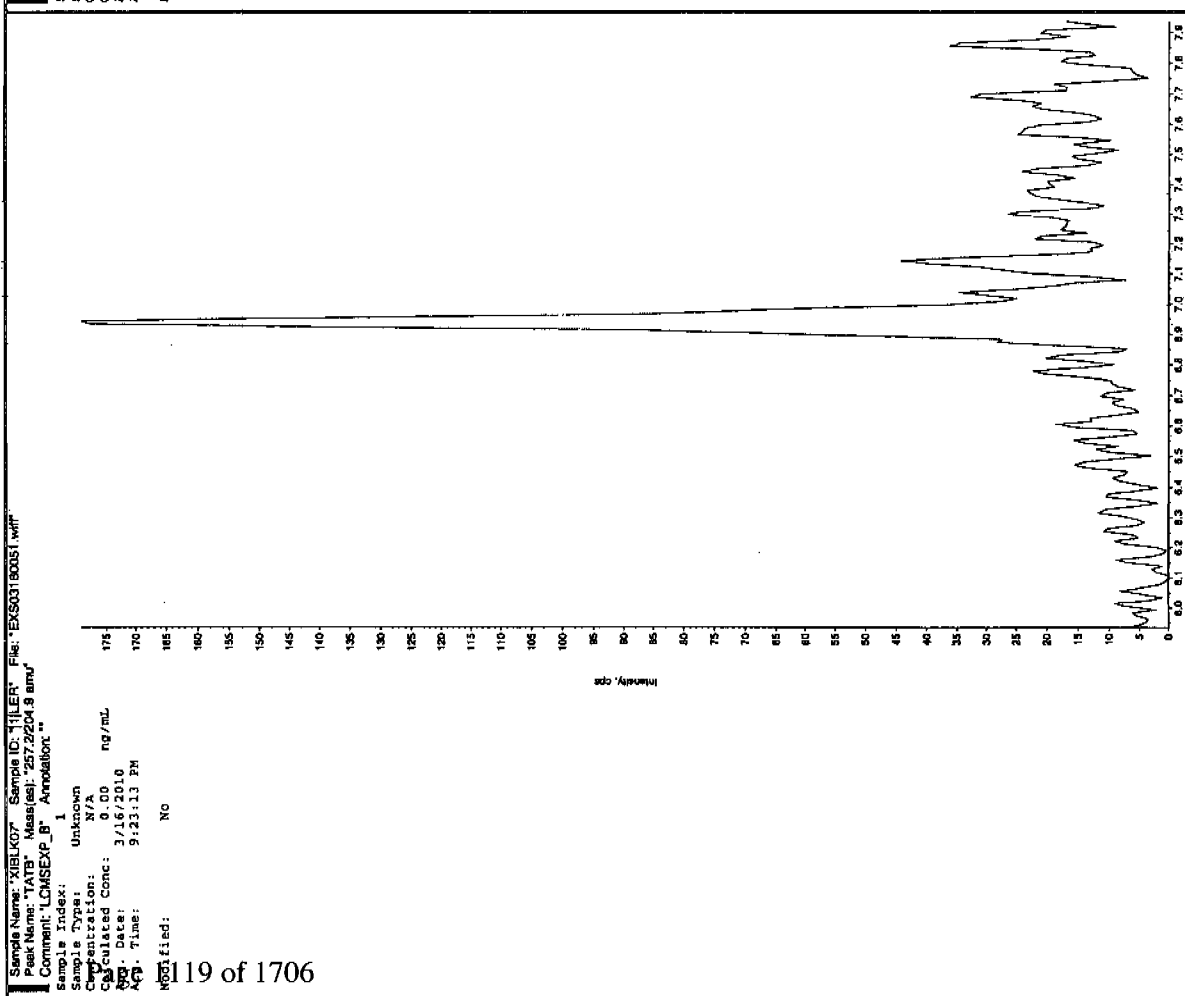
Column: Phenomenex Ultracarb 5u ODS(20)

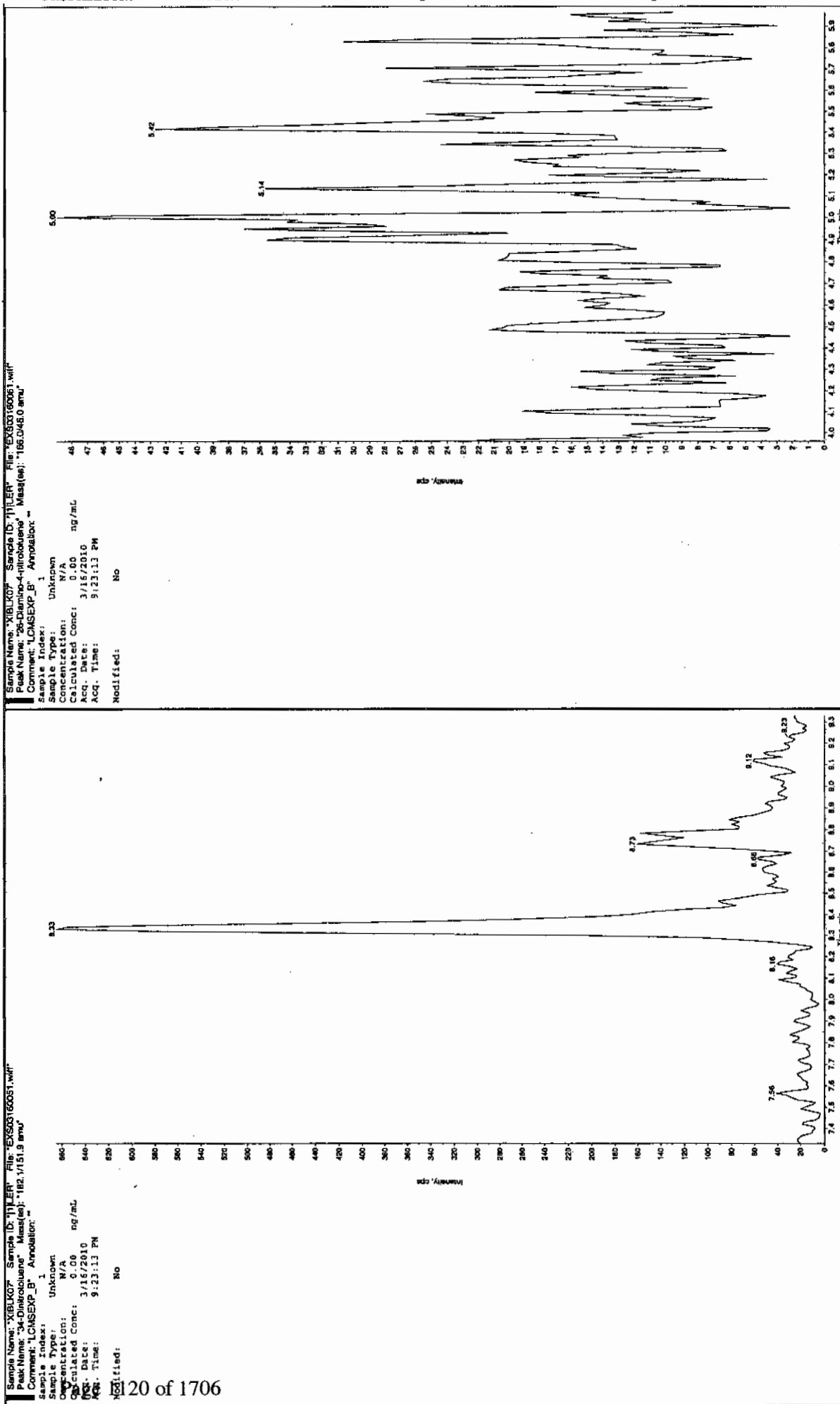
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

dan 3/18/10



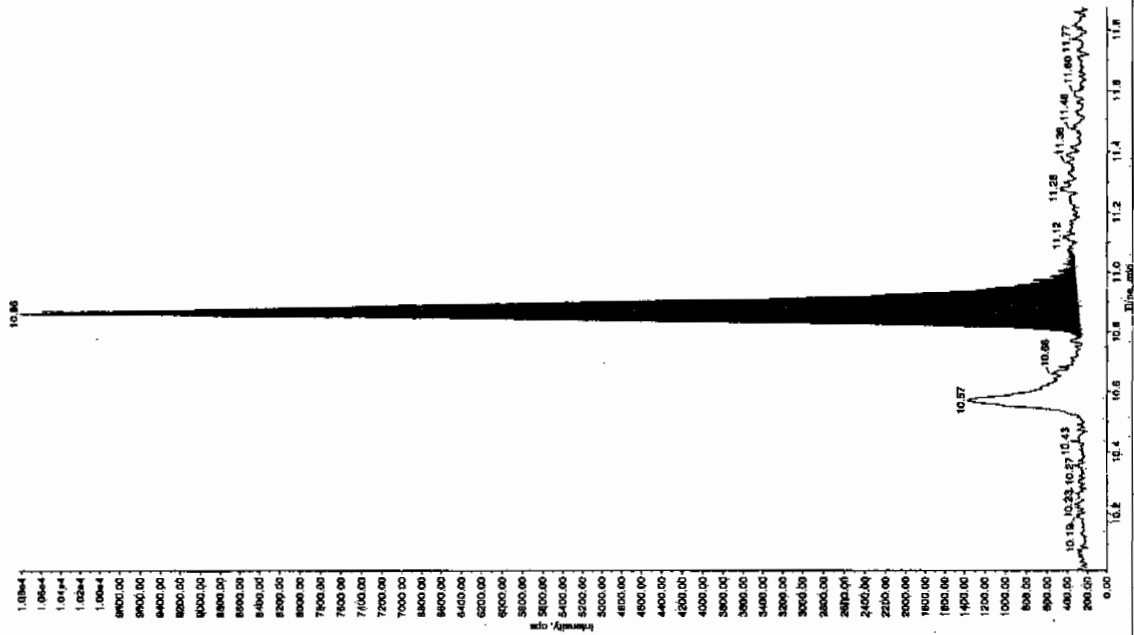
dan 03/22/10





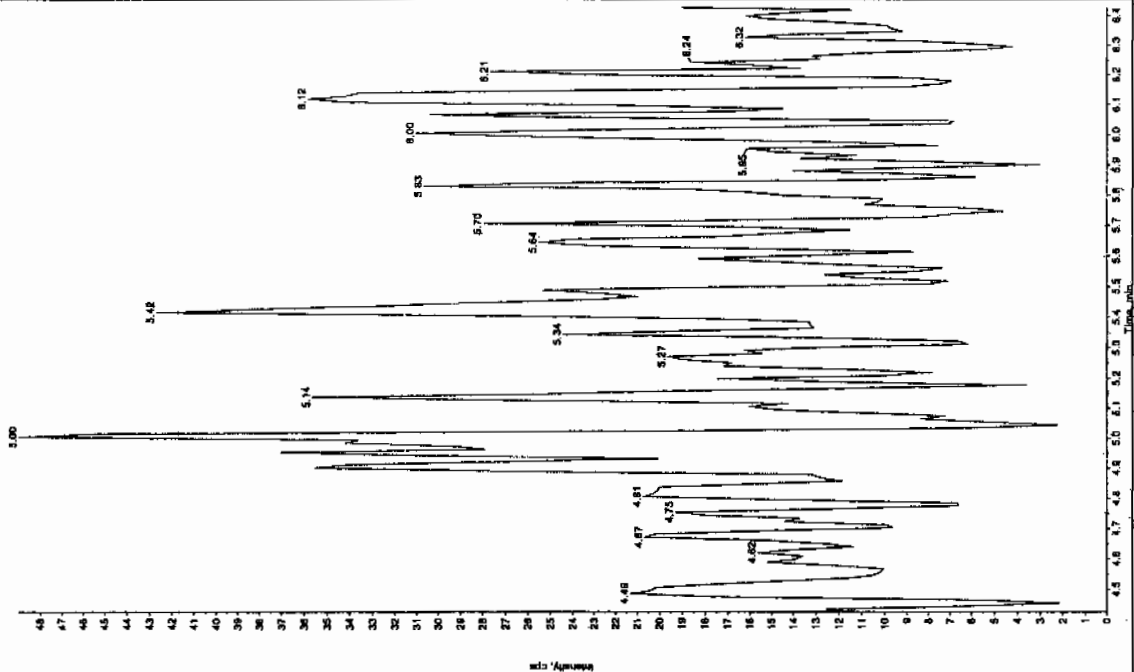
Sample Name: XIBL007 Sample ID: TILERY File: EX503160051.wif
 Peak Name: 24-Dinitro-6-nitrofluorene Mass(es): 368.1791.0 and
 Comment: LCMSEXP JB Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/18/2010
 Acq. Time: 9:23:13 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RV Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.17e+004 counts
 Height: 10516.640 cps
 Start Time: 10.9 min
 End Time: 11.1 min



Sample Name: XIBL007 Sample ID: TILERY File: EX503160051.wif
 Peak Name: 24-Dinitro-6-nitrofluorene Mass(es): 368.1791.0 and
 Comment: LCMSEXP JB Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 9:23:13 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 17-MAR-10 00:31

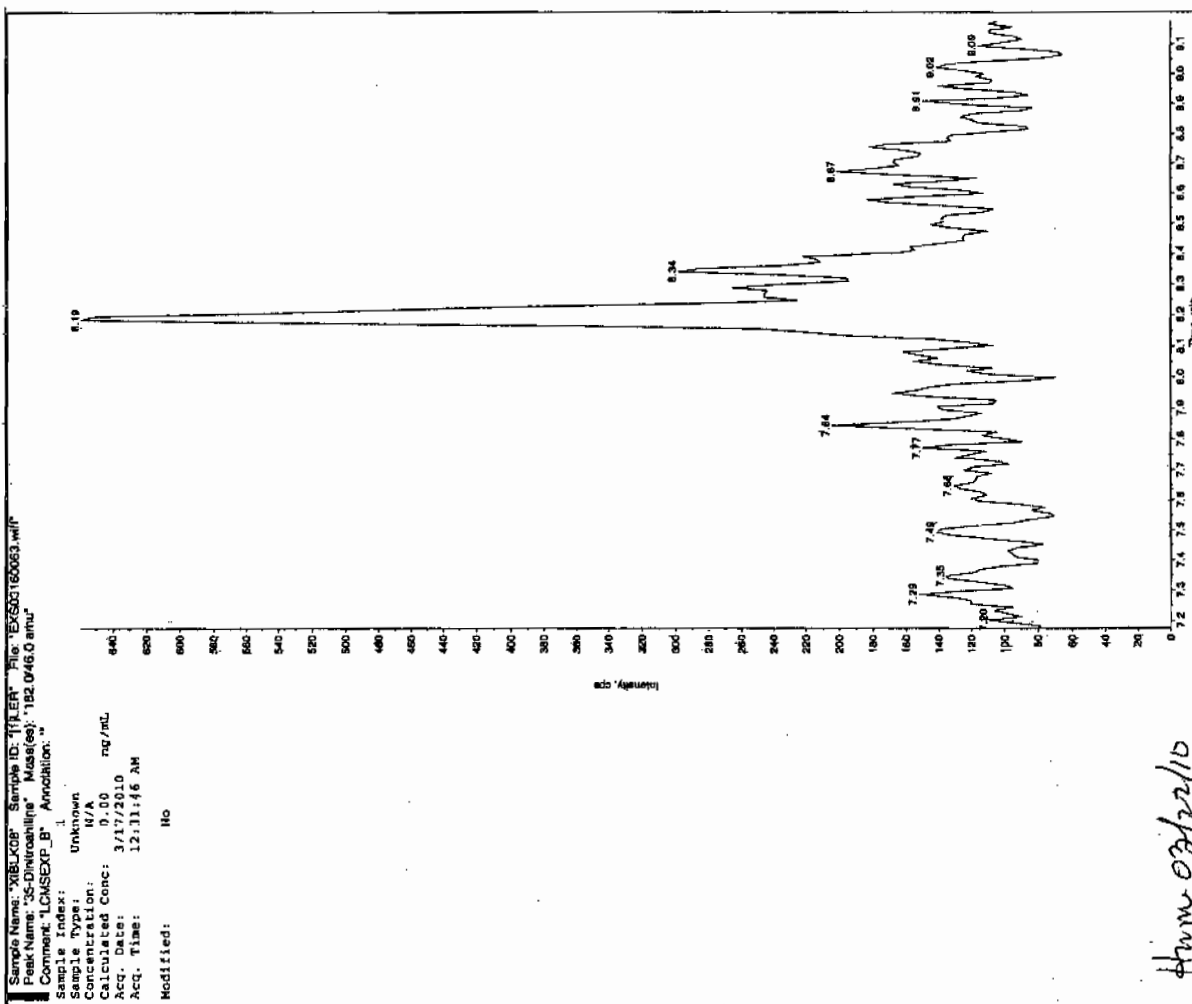
GEL Data File: EXS03160063.wiff

Instrument ID: LCMSMS

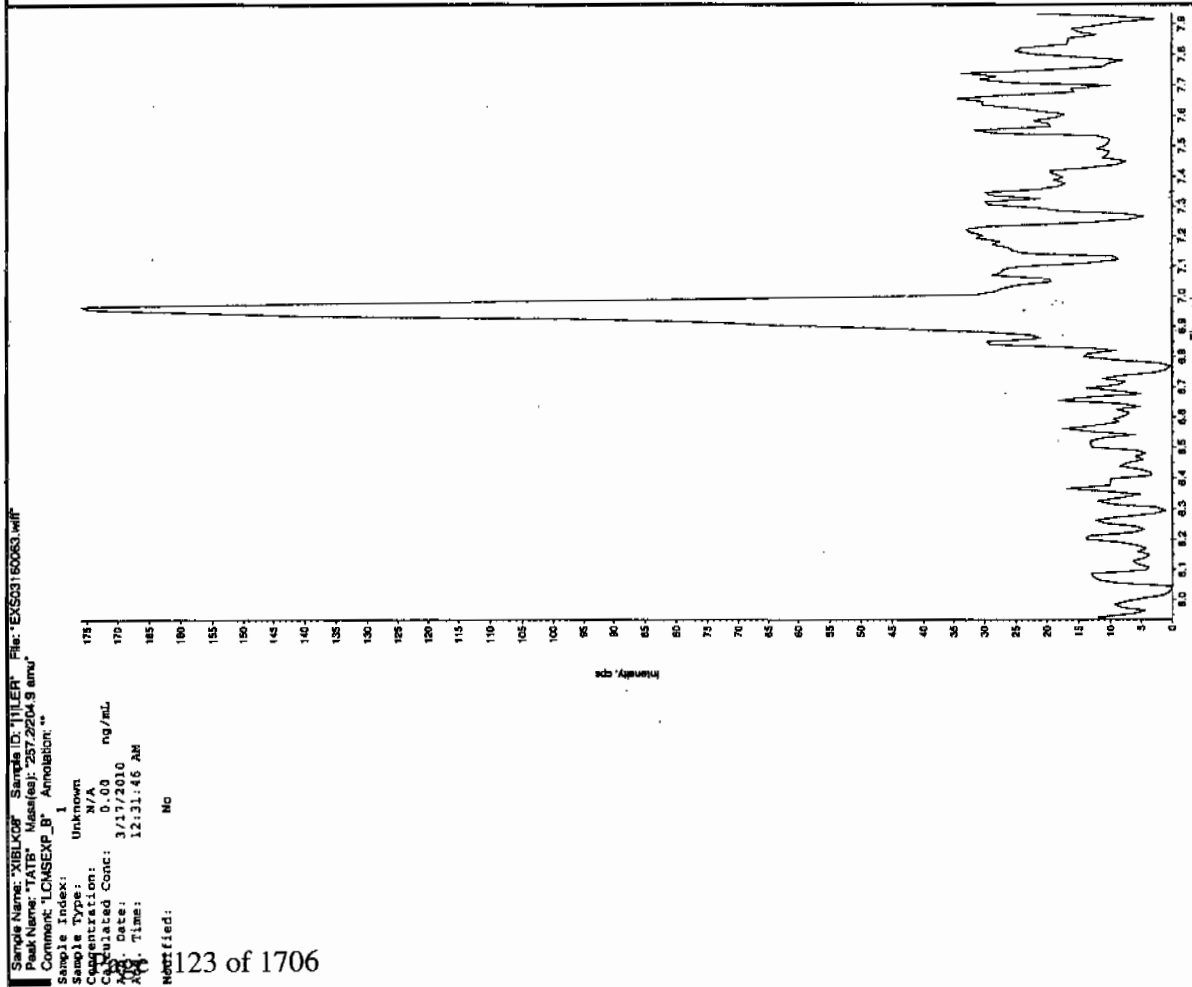
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/10/15
JAG



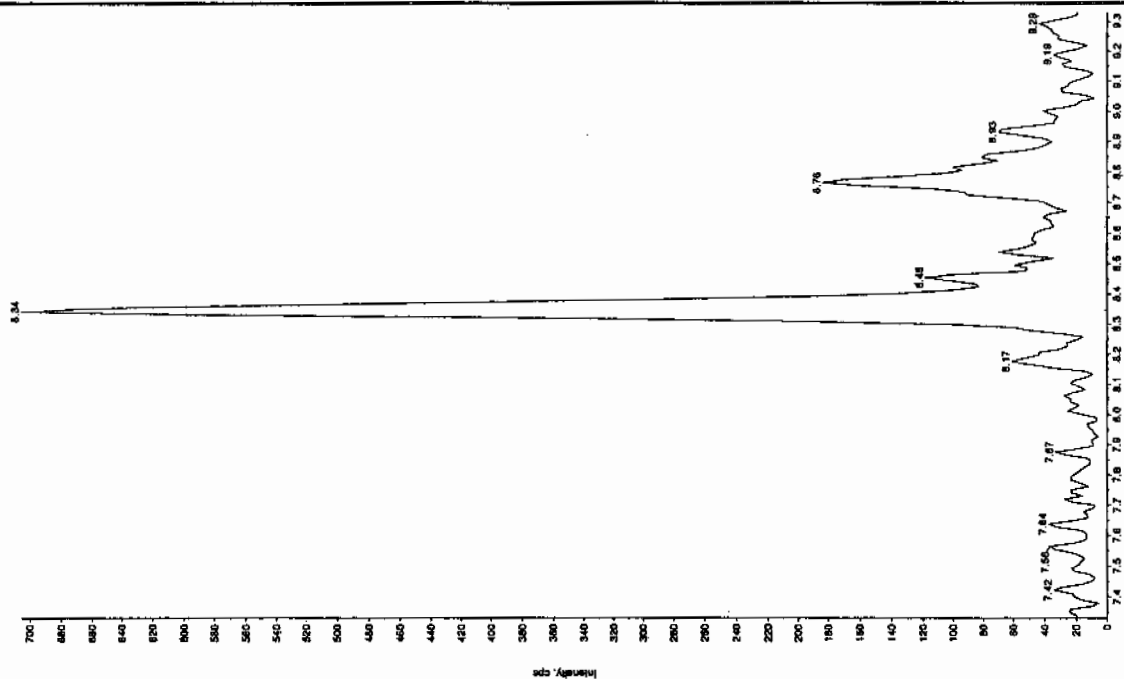
Hum 03/22/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

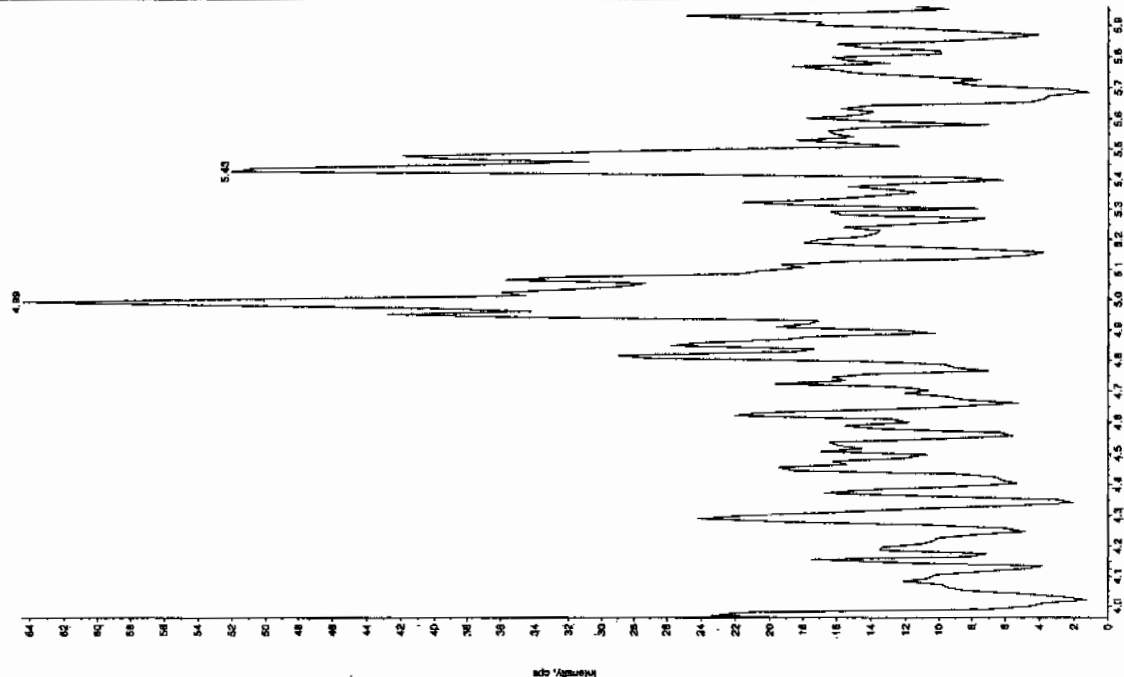
Sample Name: "XBLK03" Sample ID: "TILLER" File: "EX503160063.wiff"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

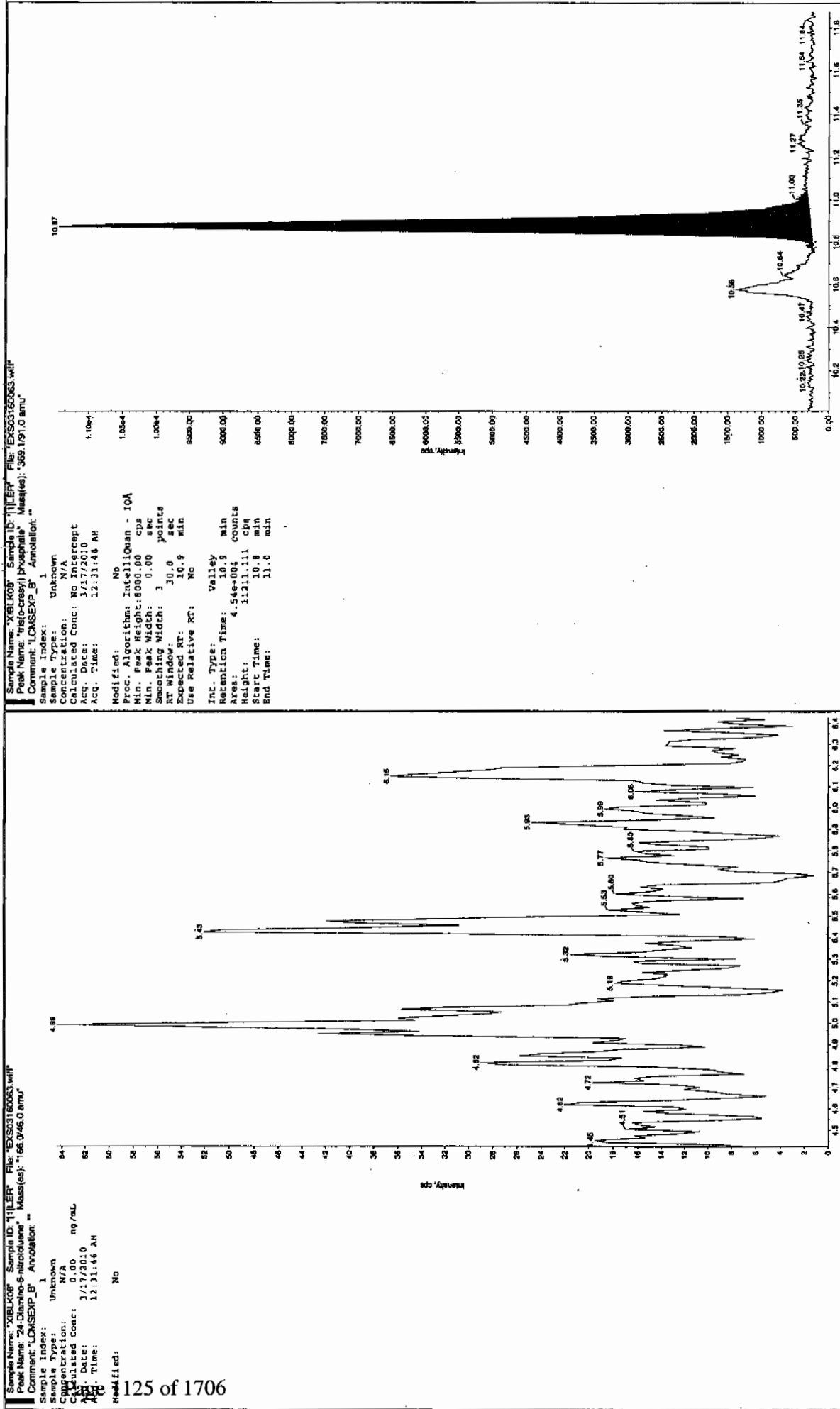
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 12:31:46 AM
 Modified: No



Sample Name: "XBLK03" Sample ID: "TILLER" File: "EX503160063.wiff"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/165.0 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: 12:31:46 AM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 17-MAR-10 03:55

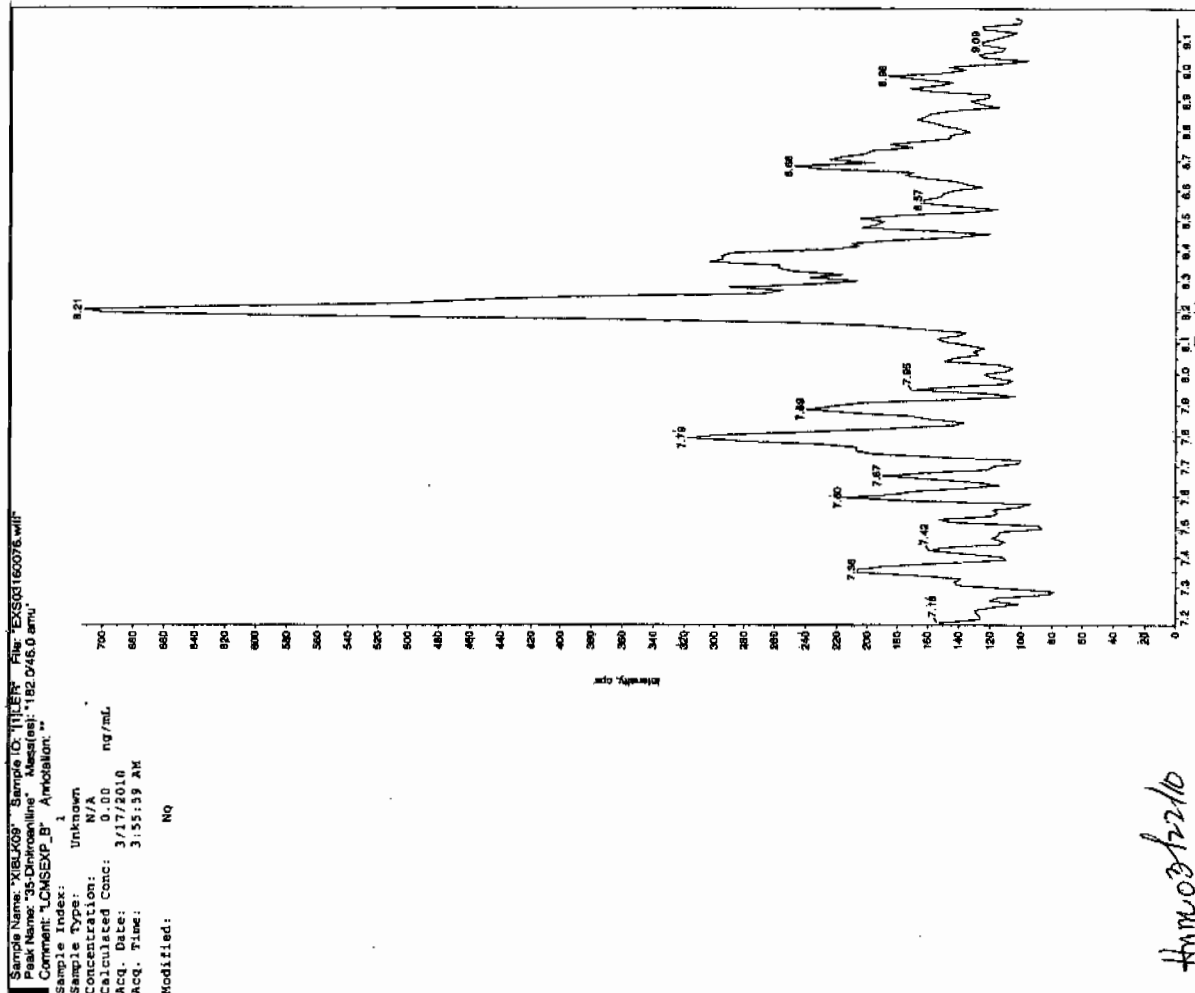
GEL Data File: EXS03160076.wiff

Instrument ID: LCMSMS

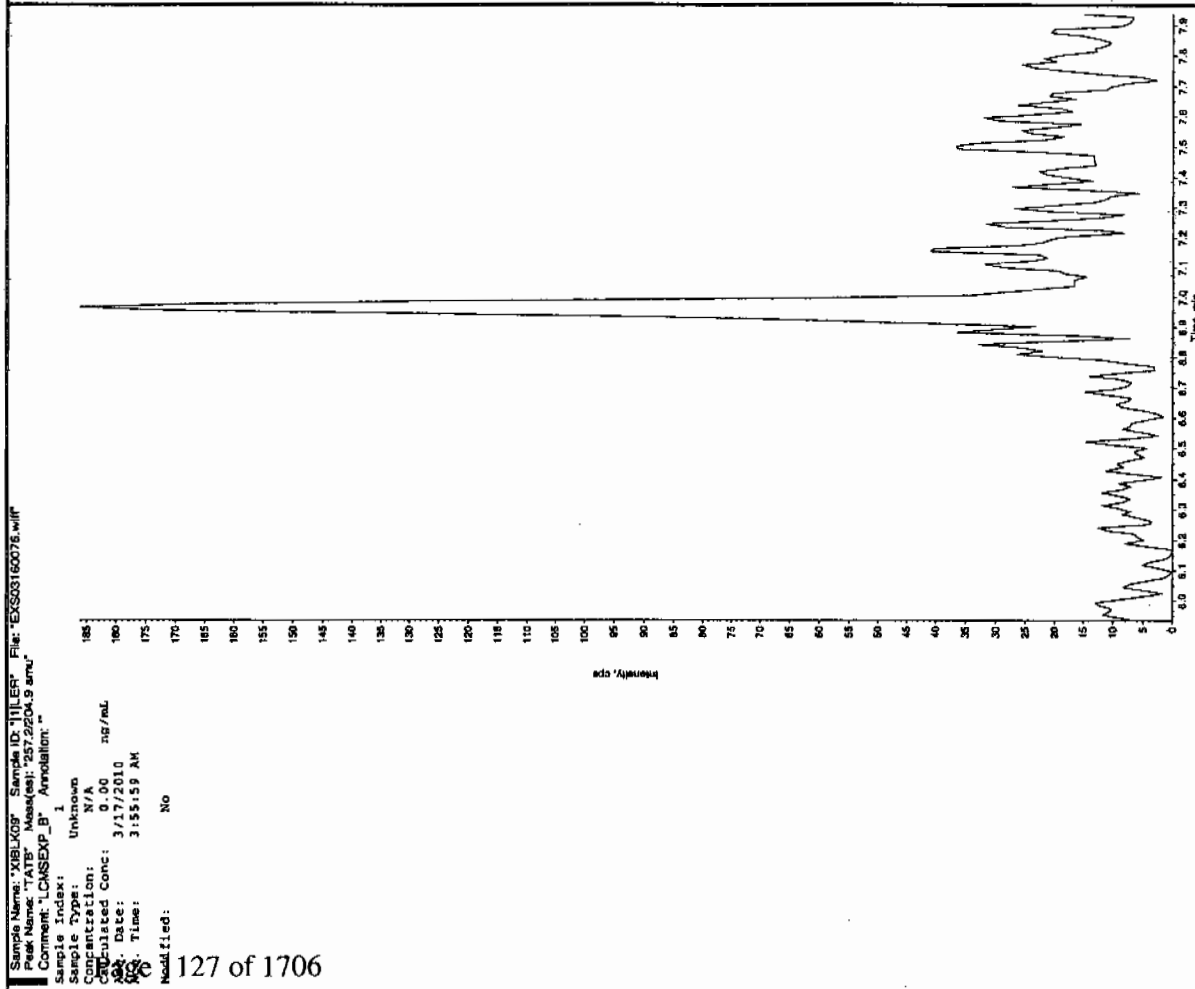
Column: Phenomenex Ultracarb 5u ODS(20)

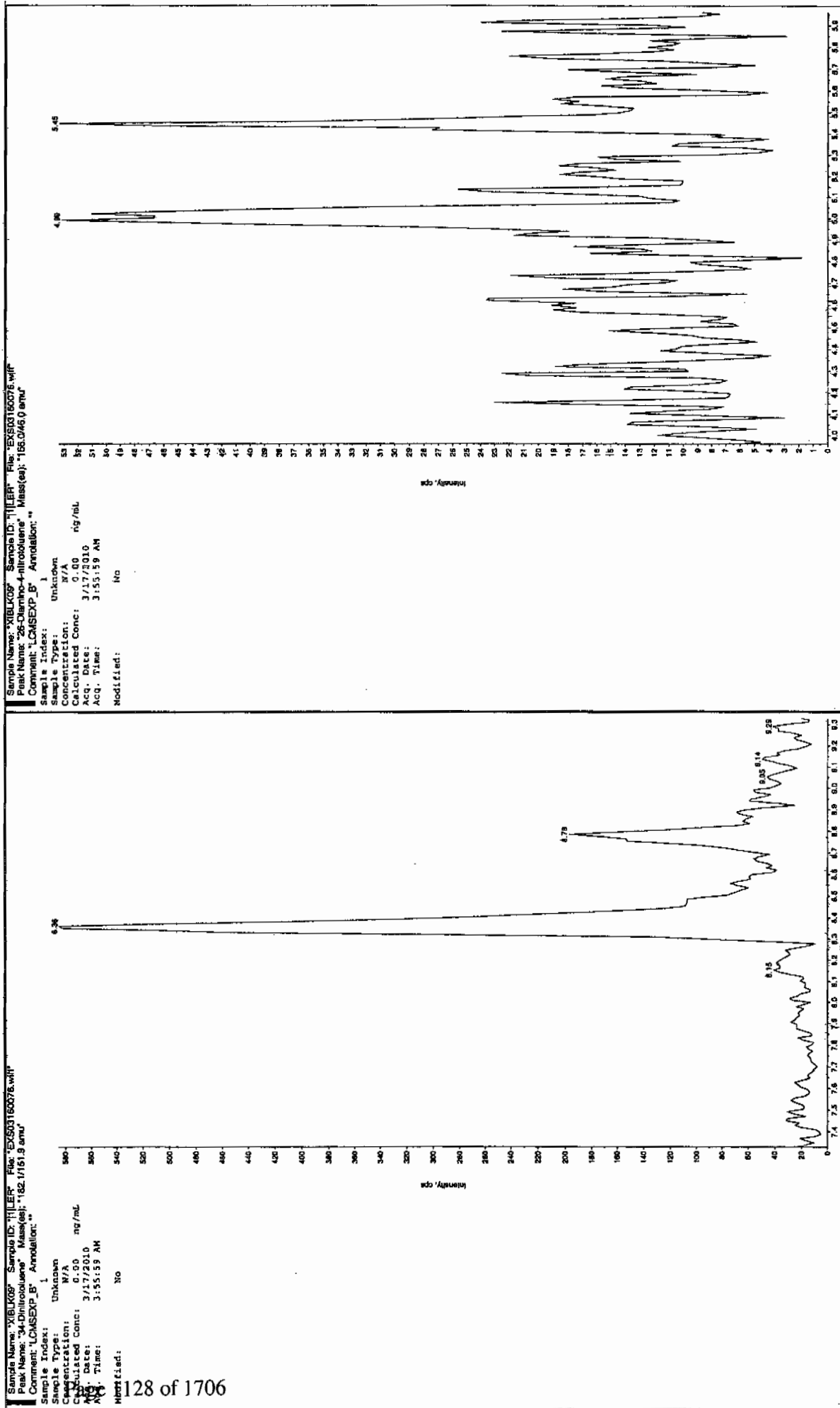
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

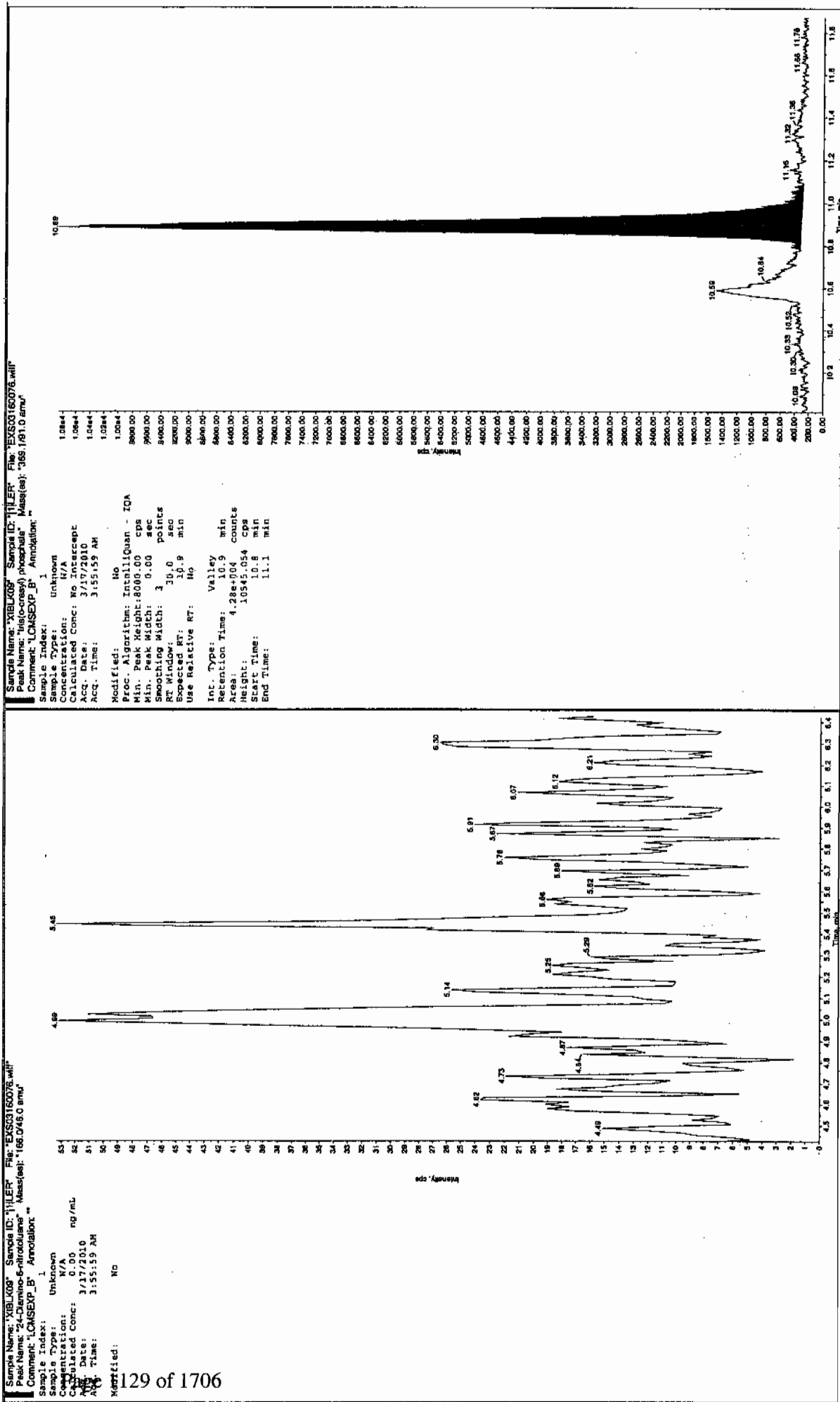
Jan 31/19/10



Jan 31/19/10







4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 17-MAR-10 07:20

GEL Data File: EXS03160089.wiff

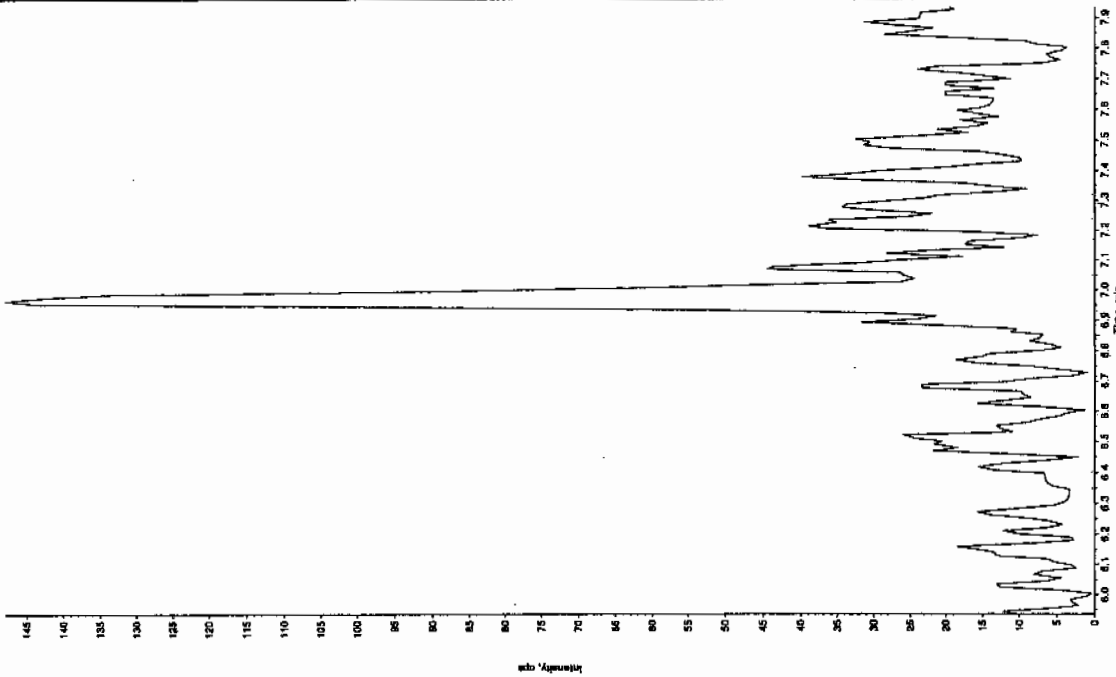
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

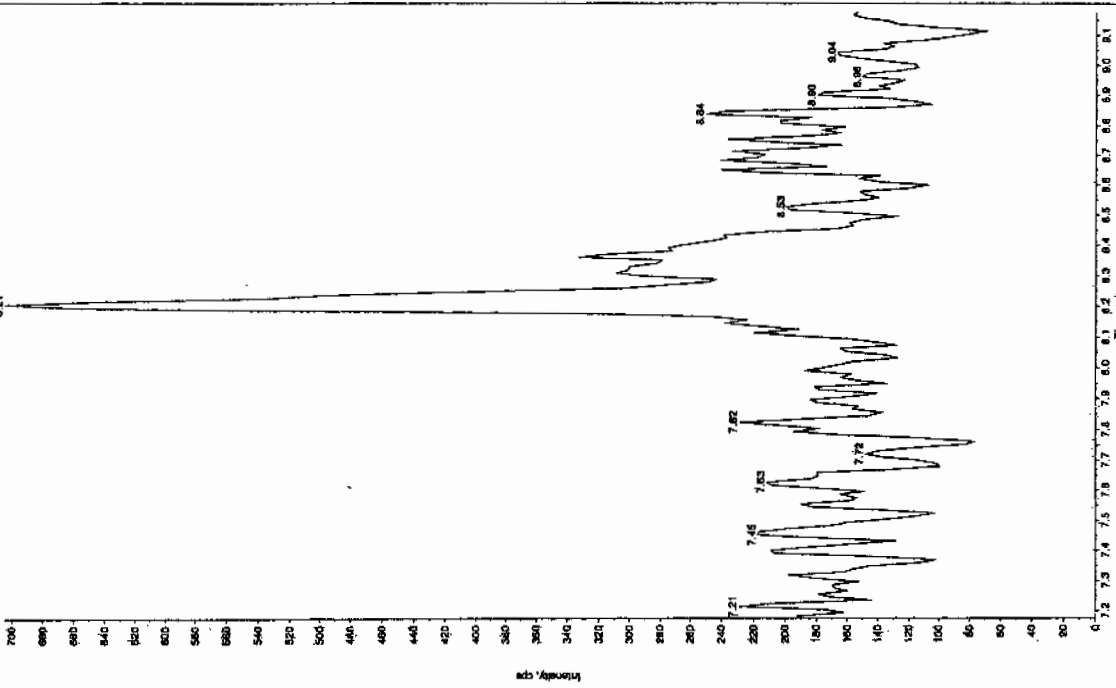
Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0

Ken 3/19/10

Sample Name: "XBLX10" Sample ID: "JILLER" File: "EX503160088.will"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.0010
 Acq. Date: 3/17/2010
 Acq. Time: 7:20:08 AM
 Modified: No



Sample Name: "XBLX10" Sample ID: "JILLER" File: "EX503180088.will"
 Peak Name: "3S-Dinitroanthracene" Mass(es): 182.0460 amu
 Comment: "LCMSXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/17/2010
 Acq. Time: 7:20:08 AM
 Modified: No

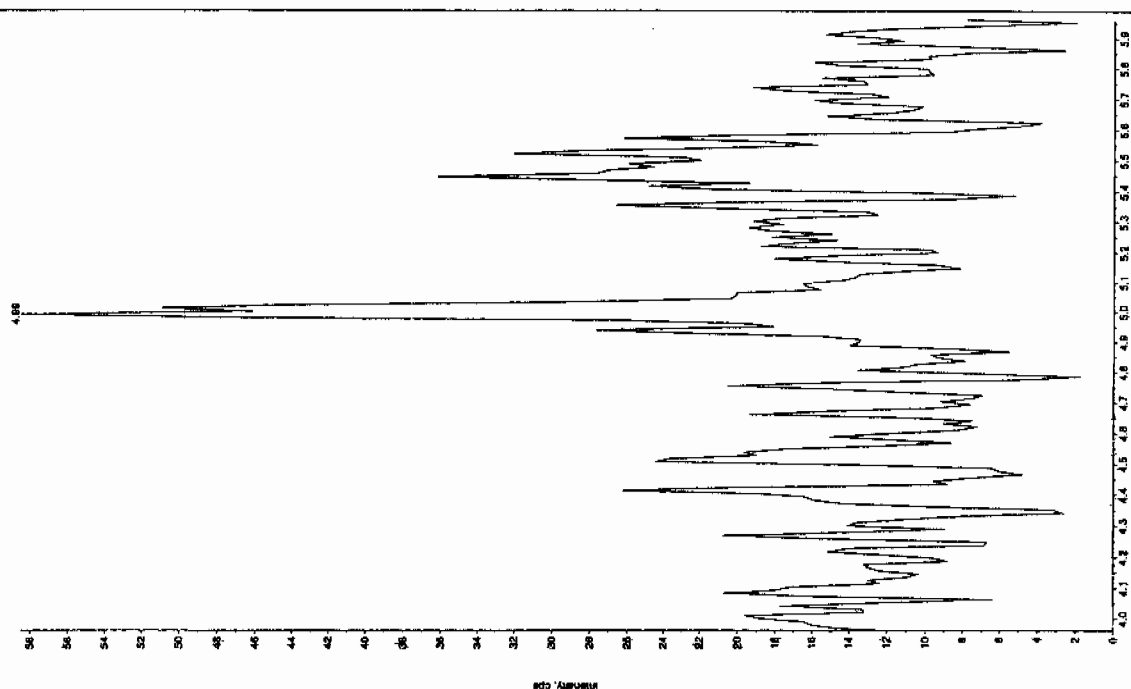
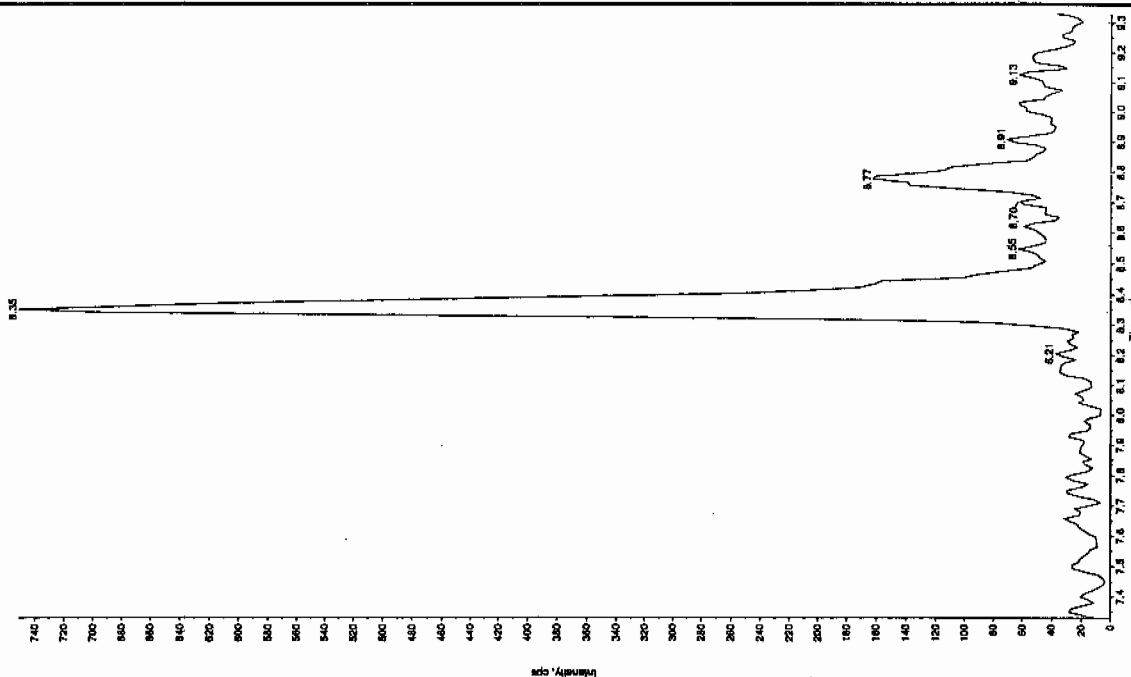


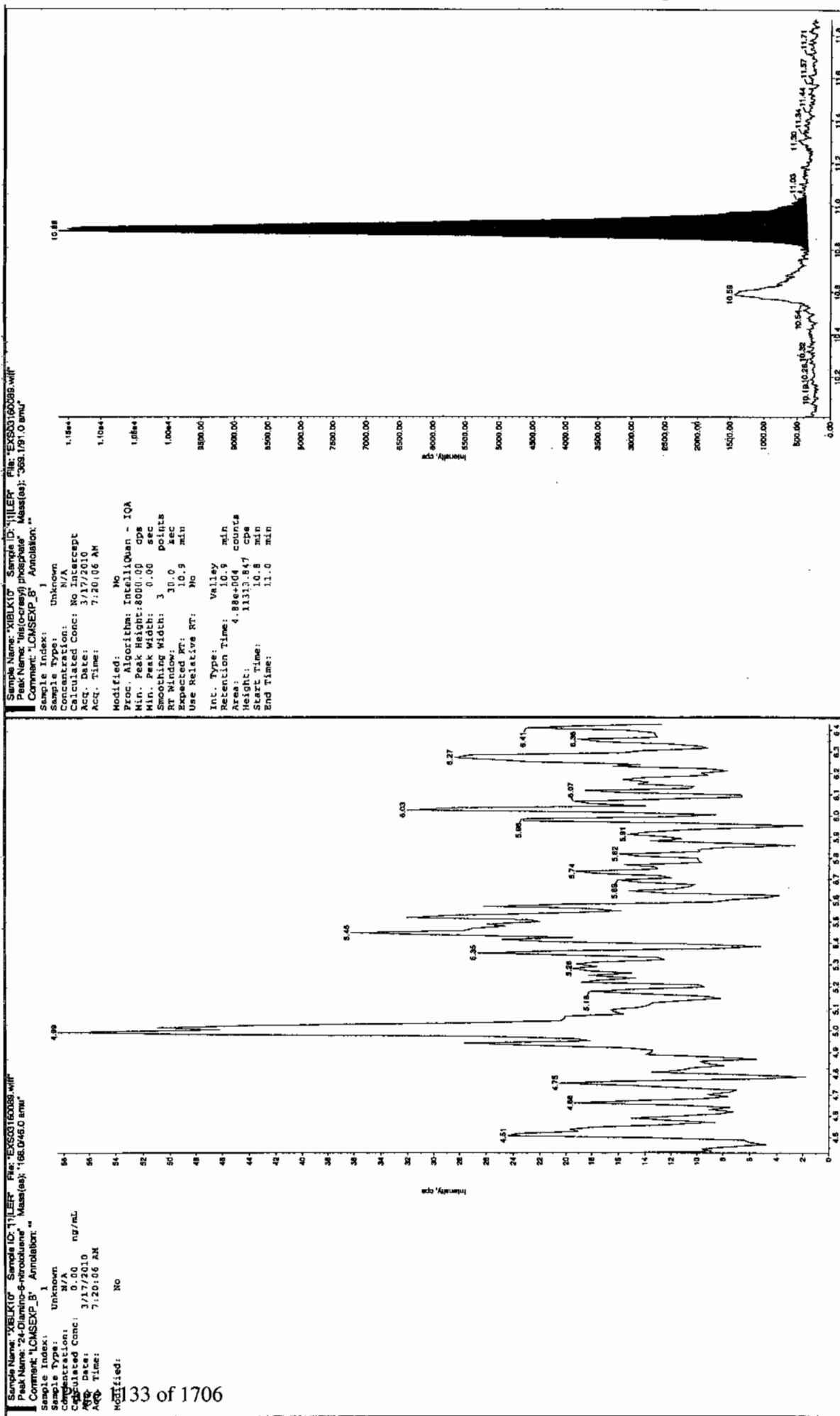
4/11/02/10

Sample Name: "XIBUK10" Sample ID: "HLEP" File: "EXS03160089.wht"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LOWEXP_B" Annotation: ""

Sample Index:	Unknown
Sample Type:	N/A
Concentration:	0.00 ng/mL
Acq. Date:	3/17/2010
Acq. Time:	7:20:06 AM
Modified:	No

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Ug. Date:	3/17/2010
Exp. Time:	7:20:06 AM
Identified:	No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 17-MAR-10 10:44

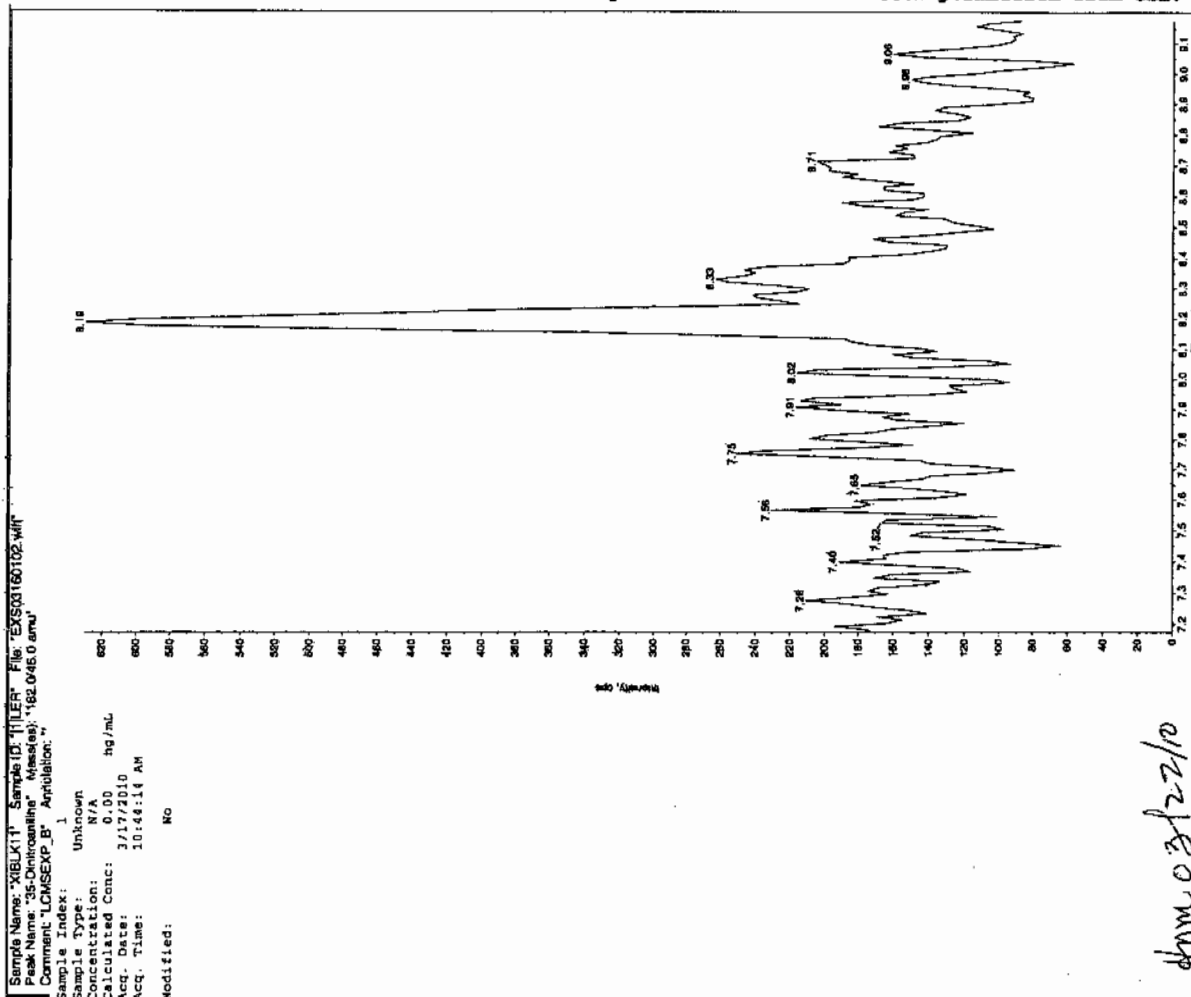
GEL Data File: EXS03160102.wiff

Instrument ID: LCMSMS

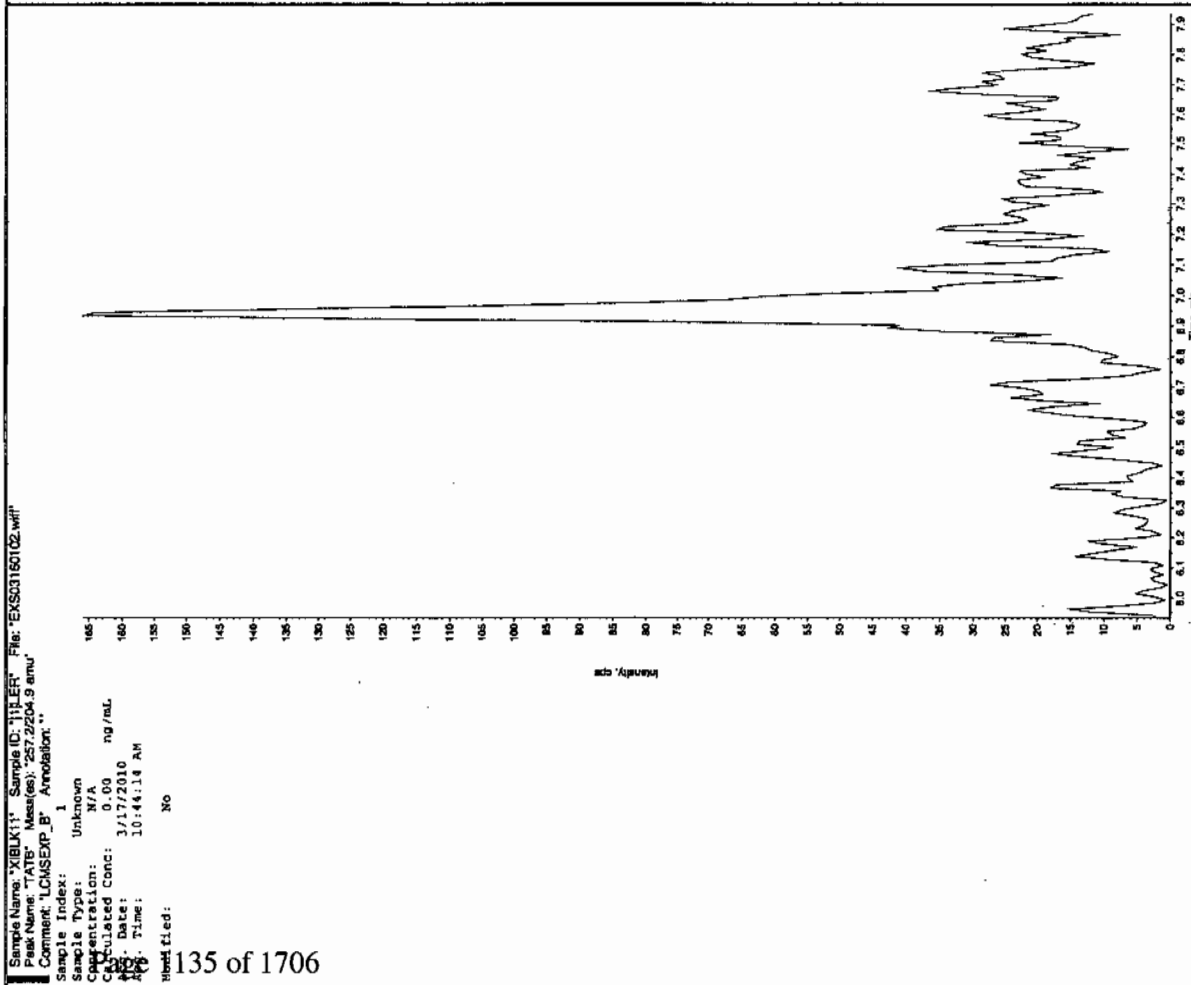
Column: Phenomenex Ultracarb 5u ODS(20)

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

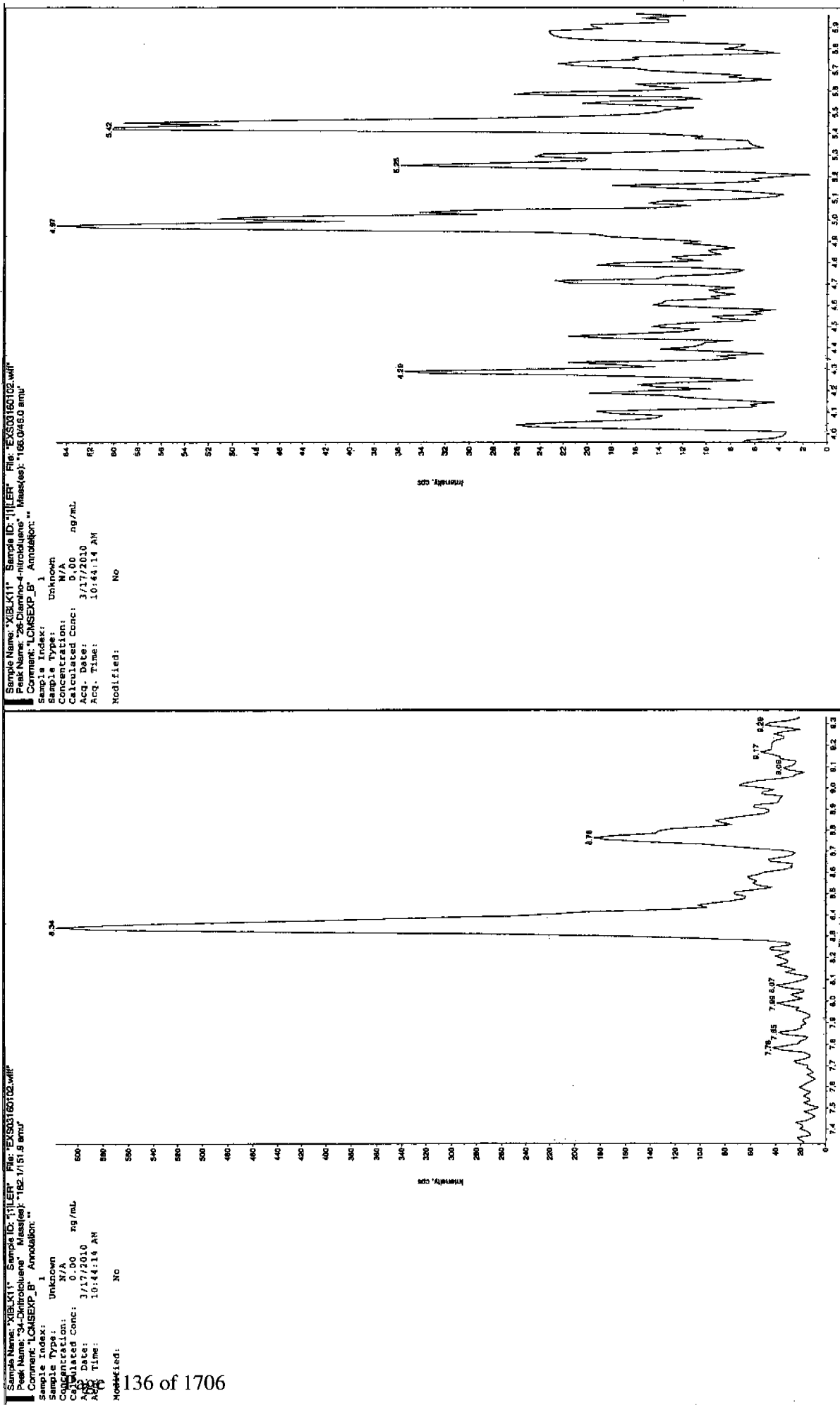
LCM 3/19/10



4mm 03/22/10



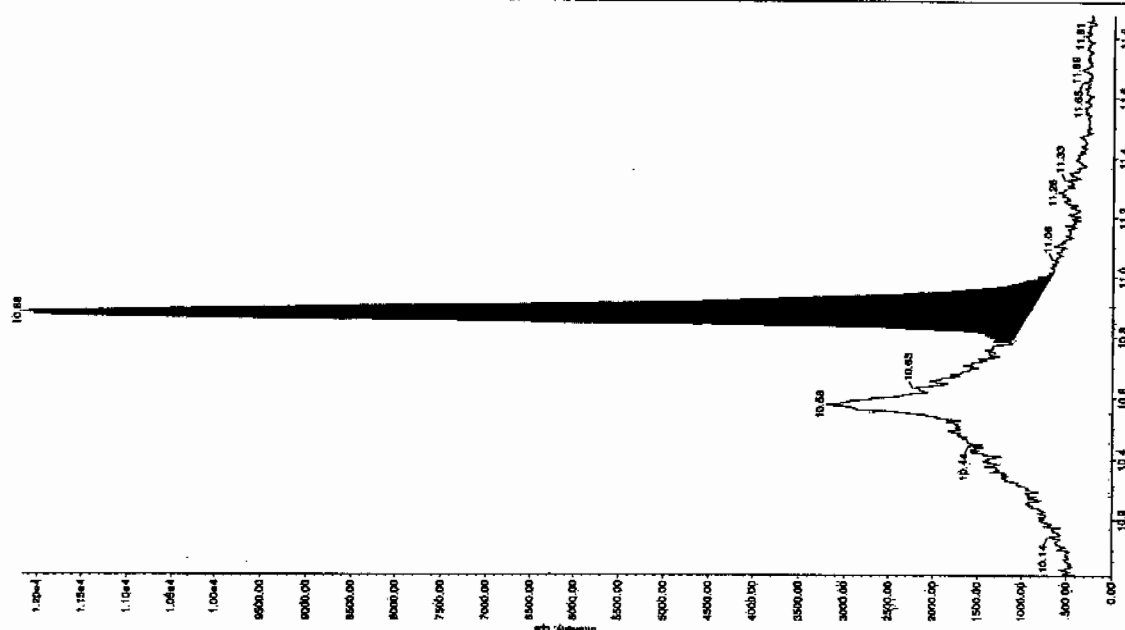
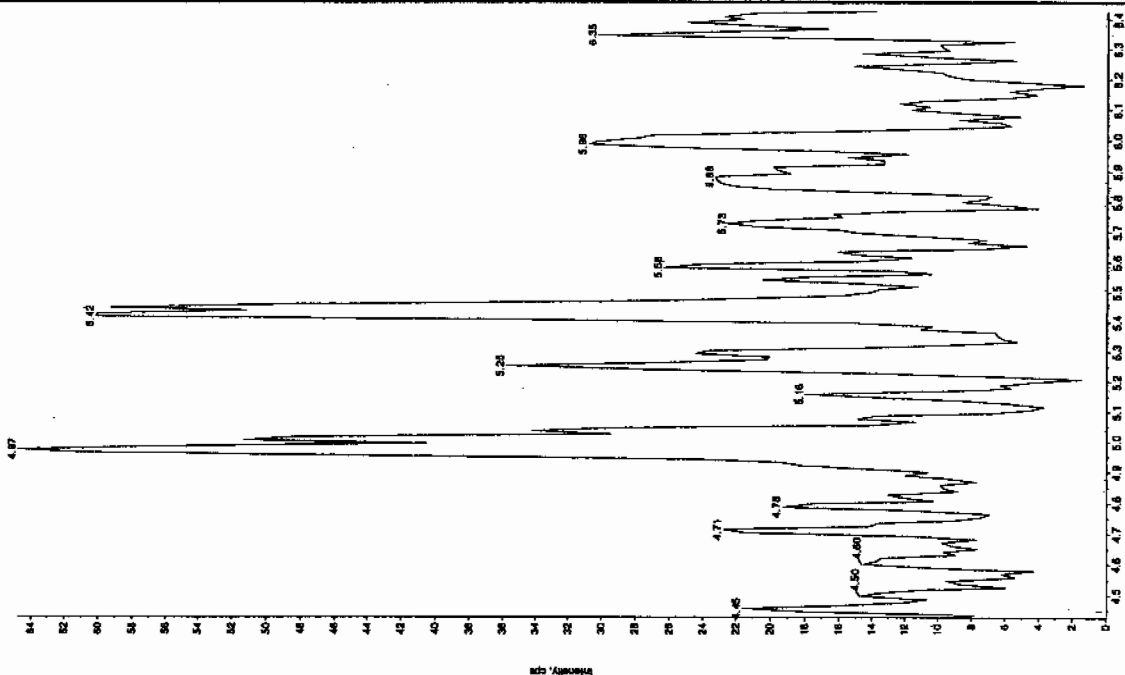
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



Sample Name: 'XIBLUK1' Sample ID: 'JILER' File: 'EXSD18G1D2.wif'
Peak Name: 'tris(o-cresyl) phosphite' Mass(es): '369.191.0 amu'
Comment: '1' CUSEVO 04

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Expiry Date:	3/17/2010
Exp. Time:	10:44:14 AM
Modified:	NO

Sample Index:	1	Algorithm:	Interpolation - IQA
Sample Type:	Unknown	Modified:	No
Concentration:	N/A	Proc. Algorithm:	Interpolation - IQA
Calculated Conc:	No Intercept	Min. Peak Height:	8000.00 cps
Acq. Date:	3/17/2010	Min. Peak Width:	3.00 sec
Acq. Time:	10:44:14 AM	Smoothing Width:	3 points
		Smoothed Width:	30.0 sec
		Expected RT:	10.9 min
		Use Relative RT:	No
Inst. Type:	Valley	Inst. Type:	Valley
Count Type:	Time	Count Type:	Time
Area:	4.75e+064	Area:	4.75e+064
Height:	11242.226 cps	Height:	11242.226 cps
Start Time:	10.8 min	Start Time:	10.8 min
End Time:	11.0 min	End Time:	11.0 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 17-MAR-10 12:34

GEL Data File: EXS03160109.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: 'XIBLK12' Sample ID: 'TILLER' File: 'EXS03160103.will'

Peak Name: '35-Dinitroaniline' Mass(es): '182.046.0 amu'

Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/17/2010

Acq. Time: 12:34:10 PM

Modified: No

Sample Name: 'XIBLK12' Sample ID: 'TILLER' File: 'EXS03160103.will'

Peak Name: 'TATB' Mass(es): '257.2204.9 amu'

Comment: 'LCMSEXP_B' Annotation: ''

Sample Index: 1

Sample Type: Unknown

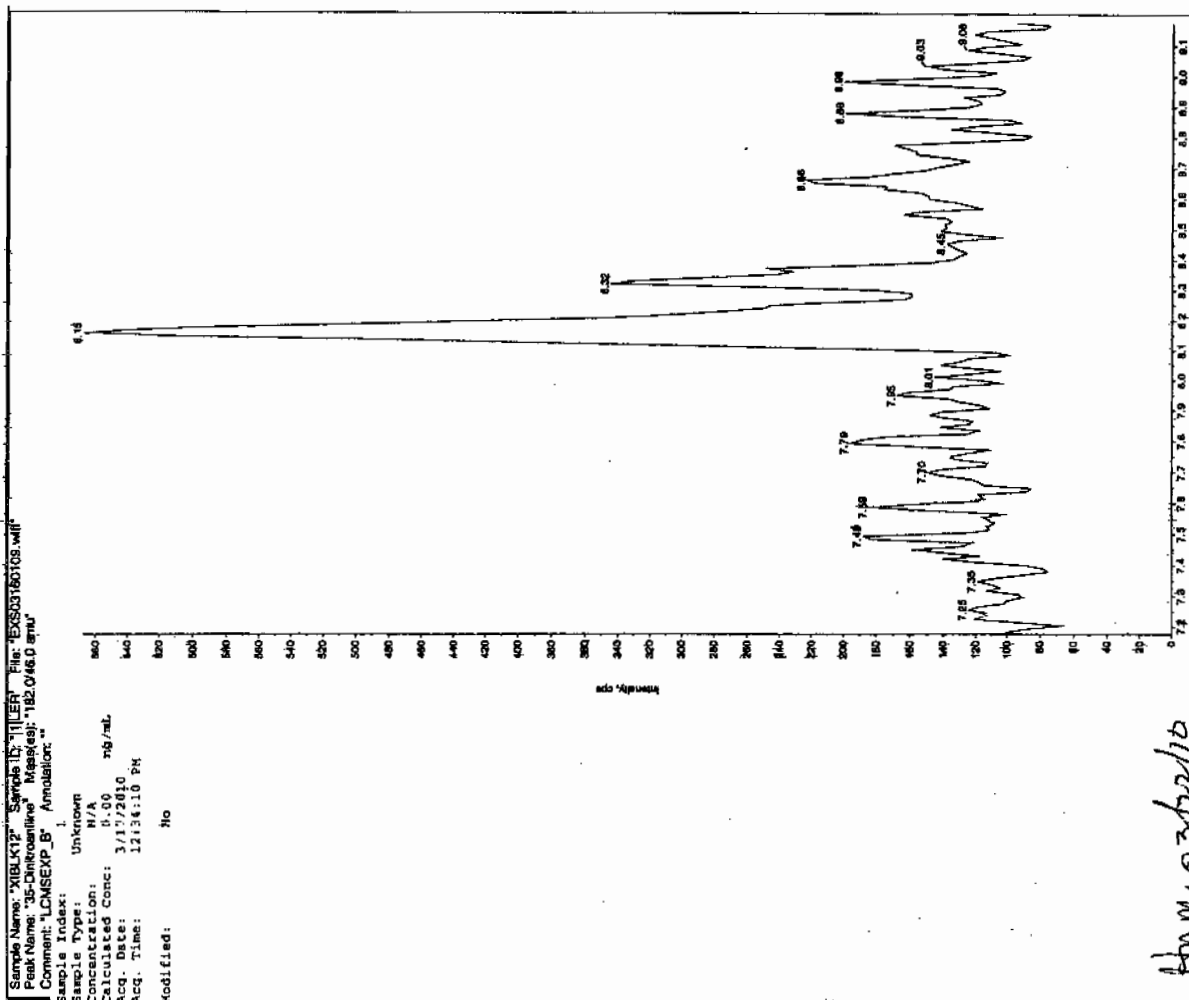
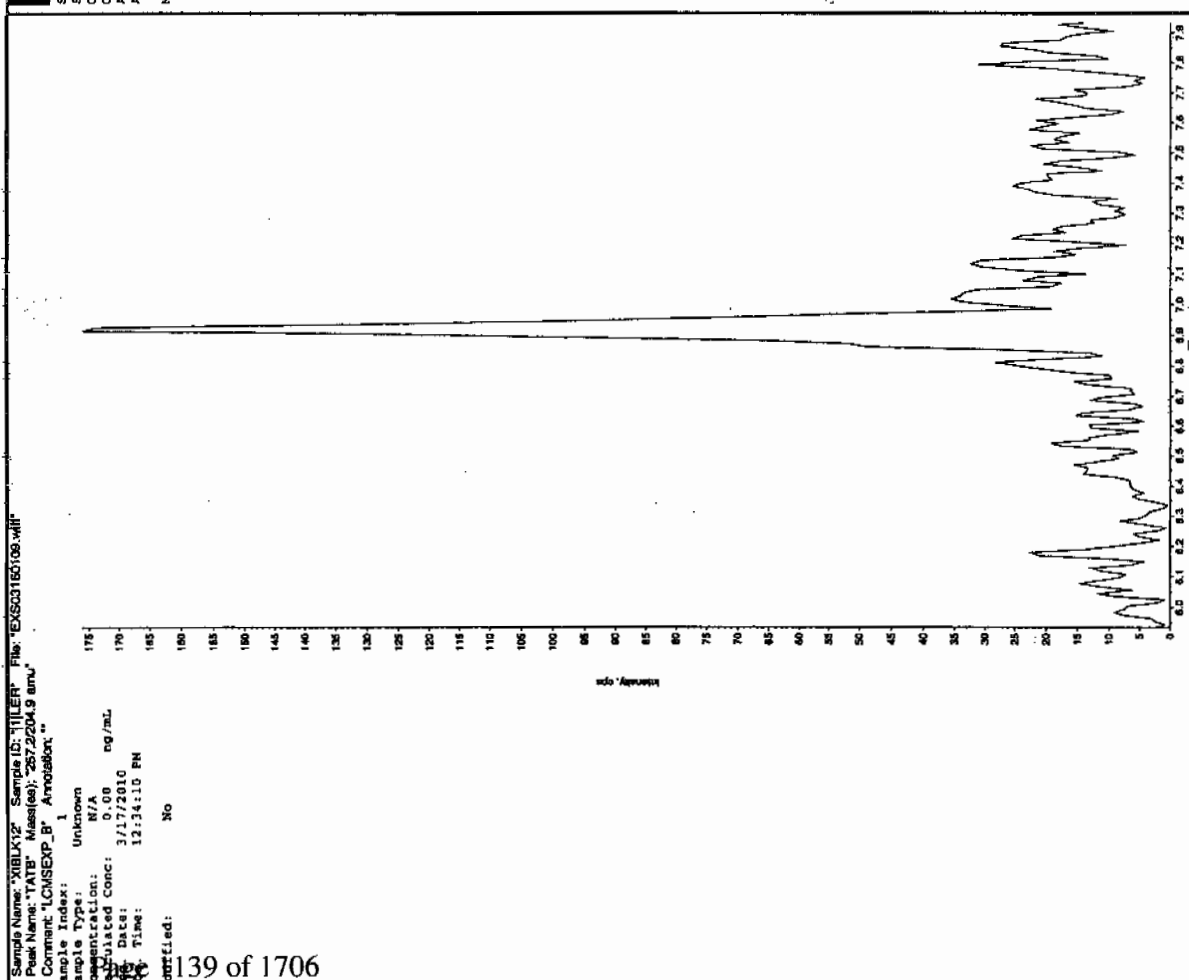
Concentration: N/A

Calculated Conc: 0.00 ng/mL

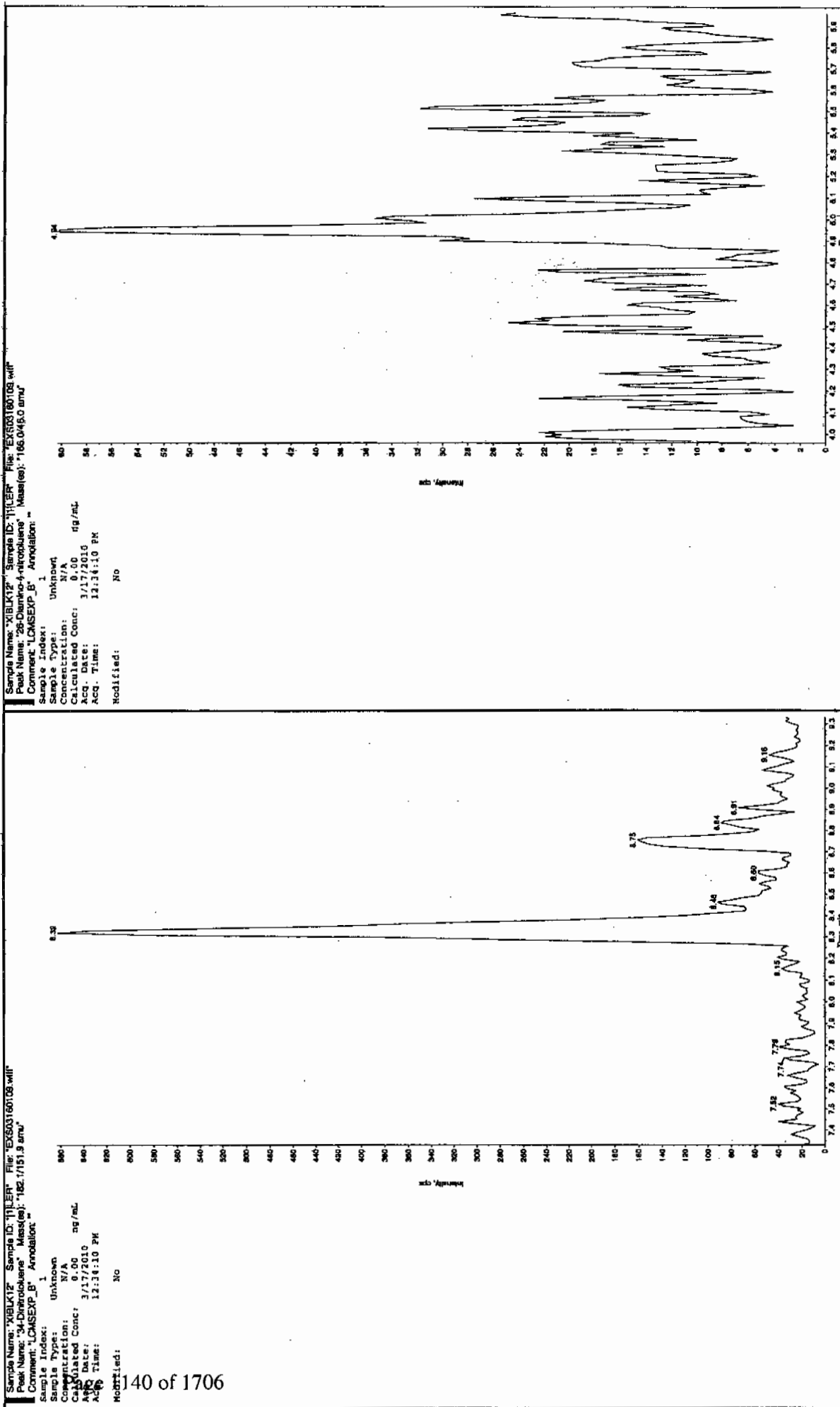
Acq. Date: 3/17/2010

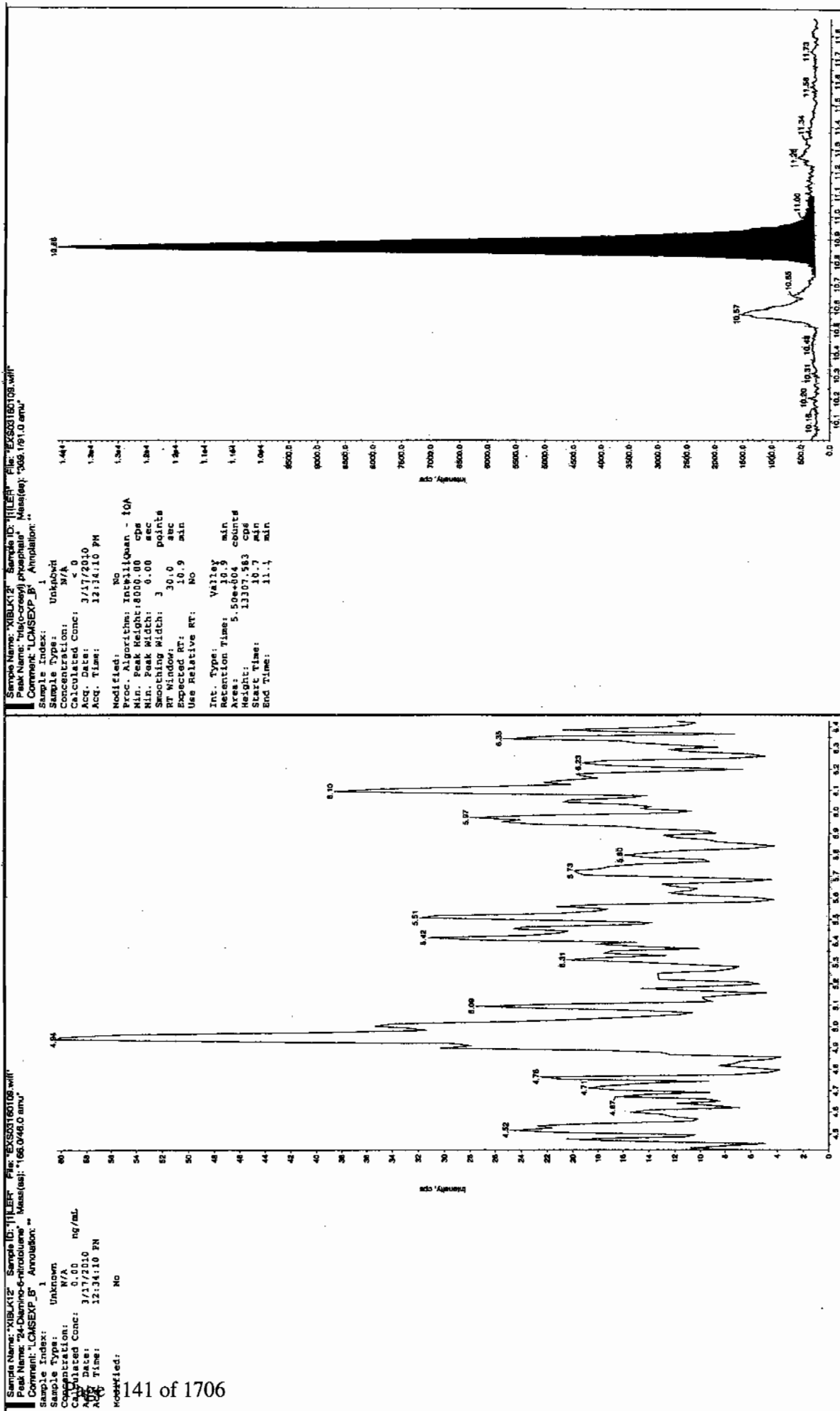
Acq. Time: 12:34:10 PM

Modified: No



Amu 03/12/10





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 17-MAR-10 19:22

GEL Data File: EXS03160135.wiff

Instrument ID: LCMSMS

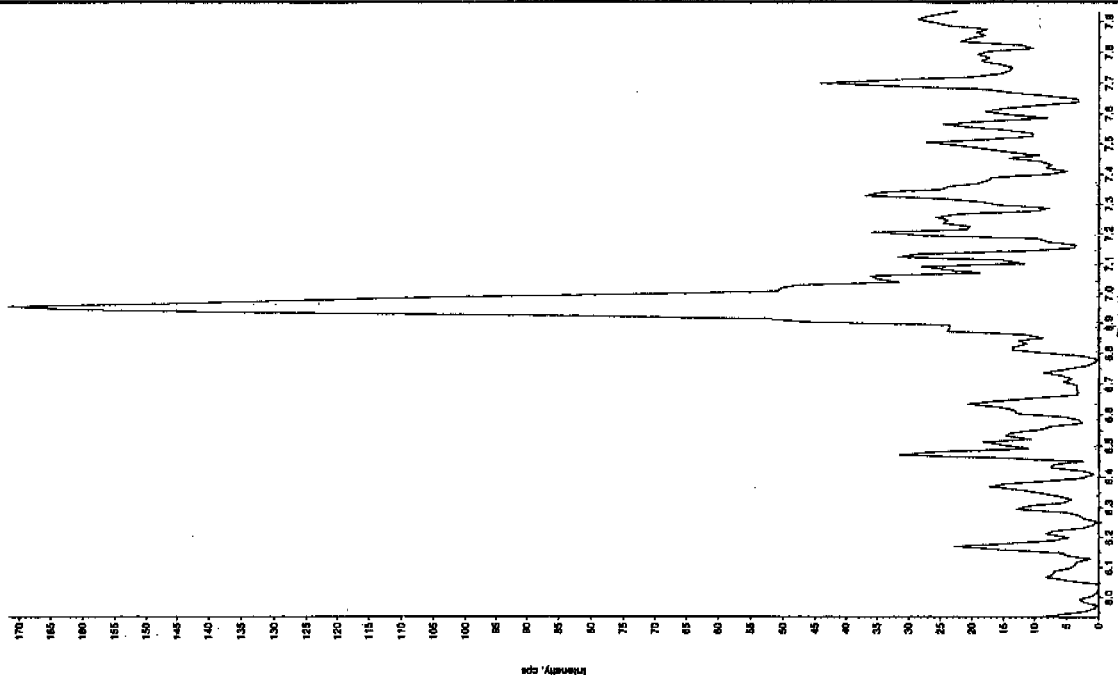
Column: Phenomenex Ultracarb 5u ODS(20)

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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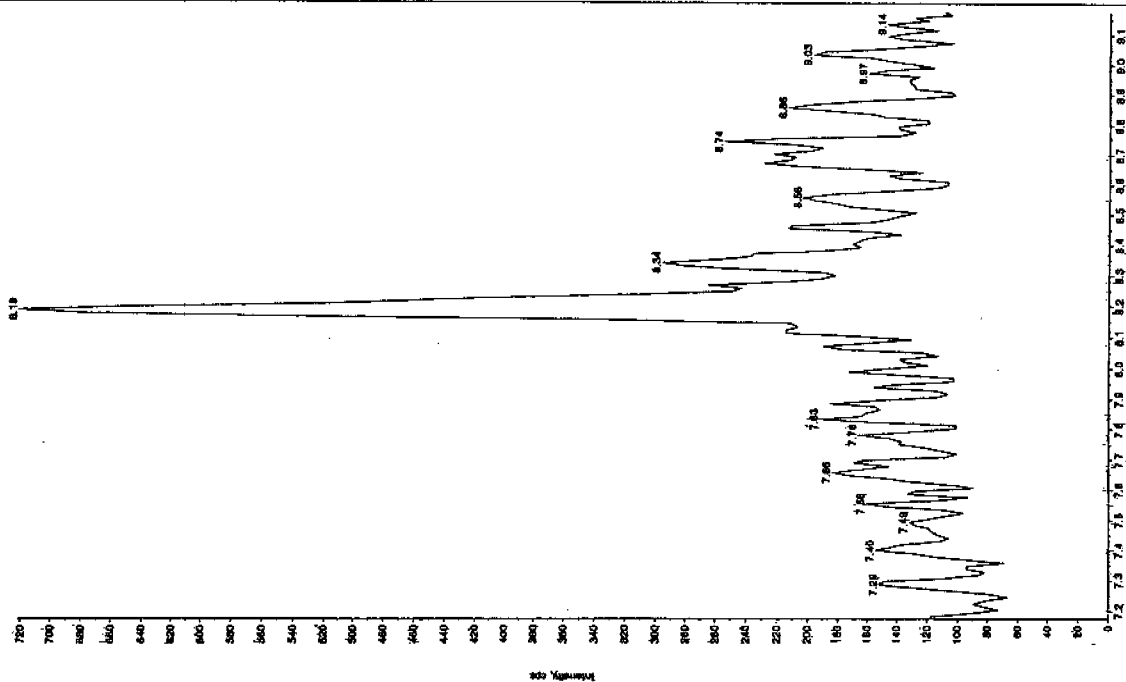
Sample Name: "XIBLK15" Sample ID: "JILIER" File: "E2503160135.wif"
 Peak Name: "TATE" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 7:22:45 PM
 Modified: No

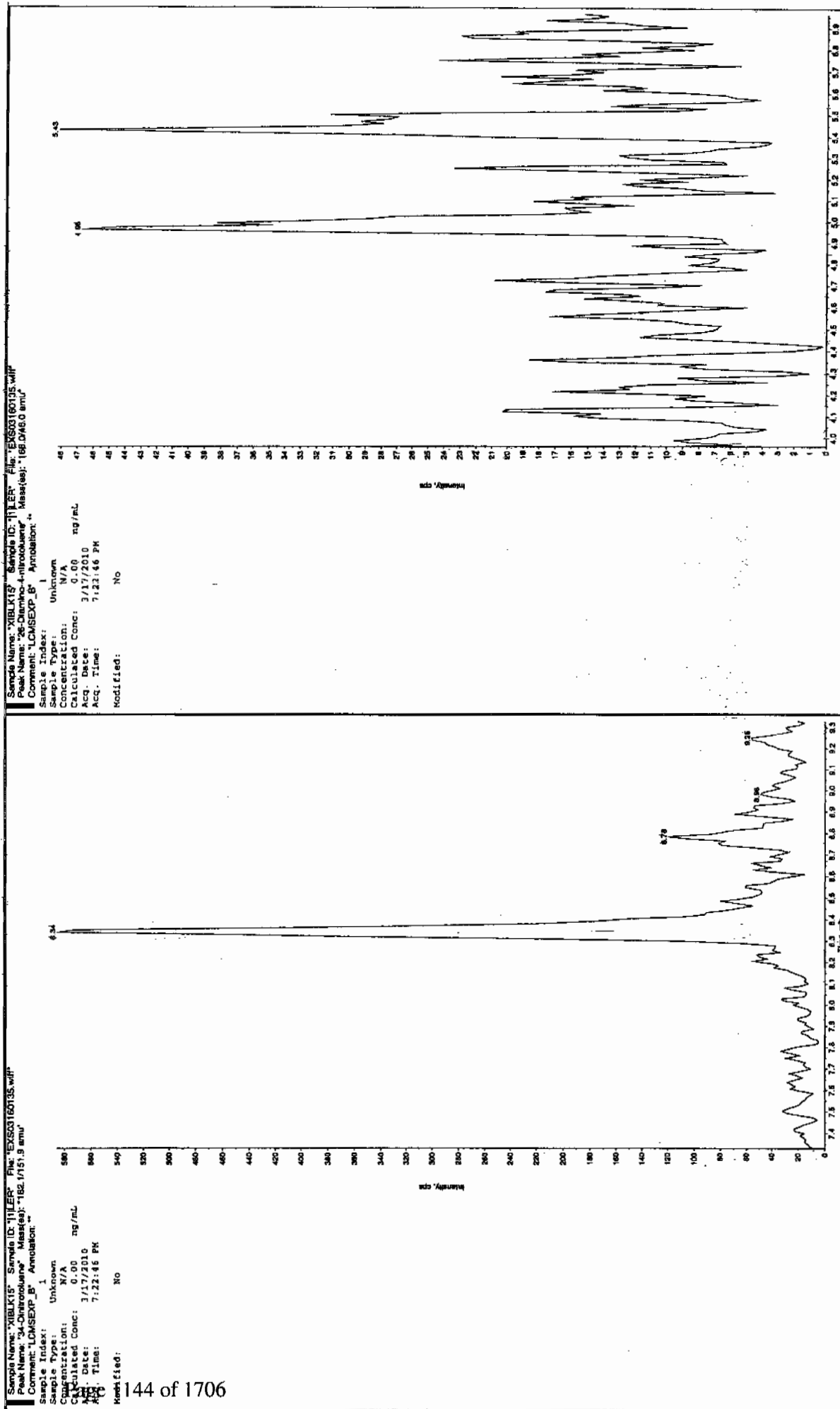


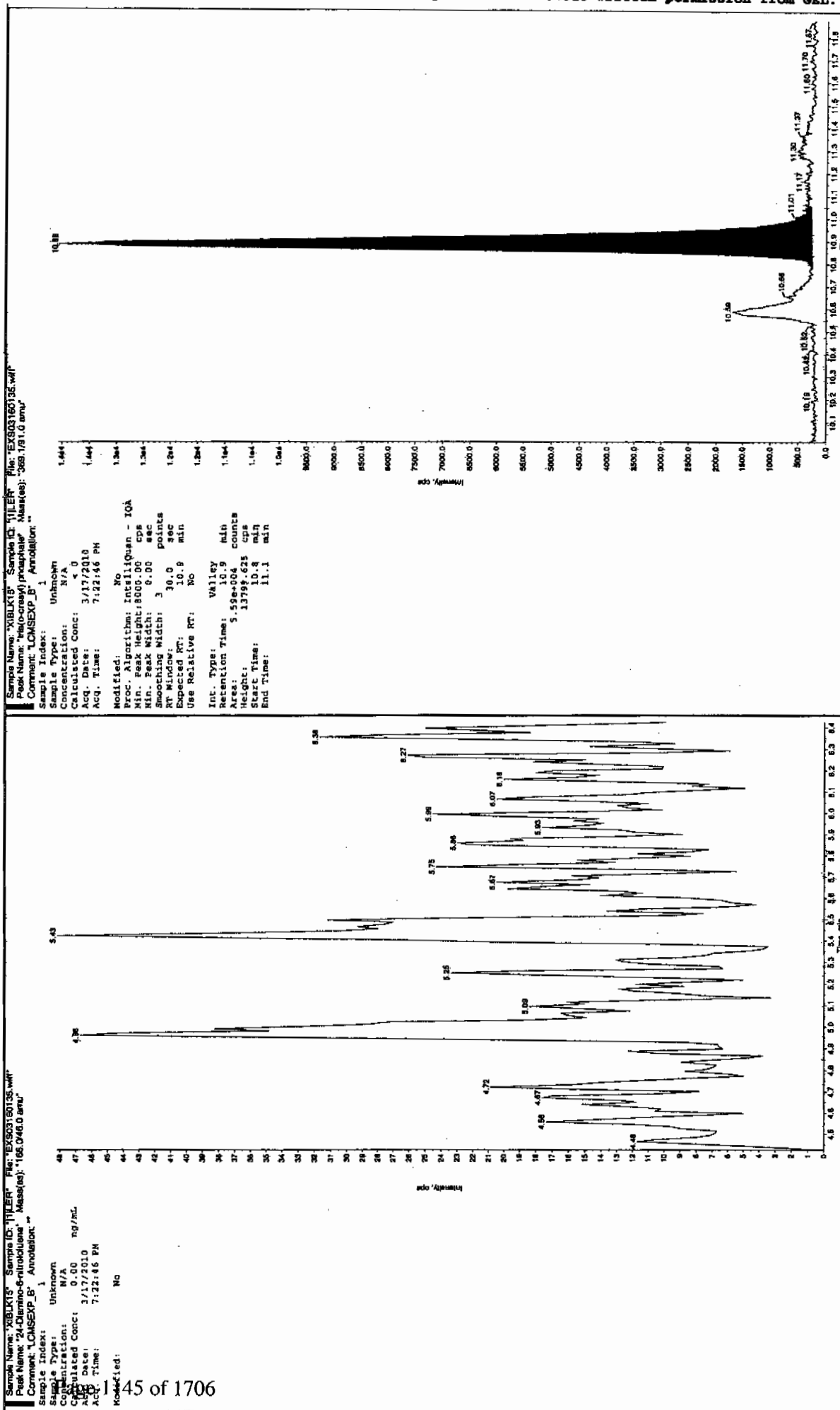
Sample Name: "XIBLK15" Sample ID: "JILIER" File: "E2503160135.wif"
 Peak Name: "25-Dihydroquinone" Mass(es): "182.0946.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 7:30:05 PM
 Modified: No



Jan 03/22/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 17-MAR-10 21:28

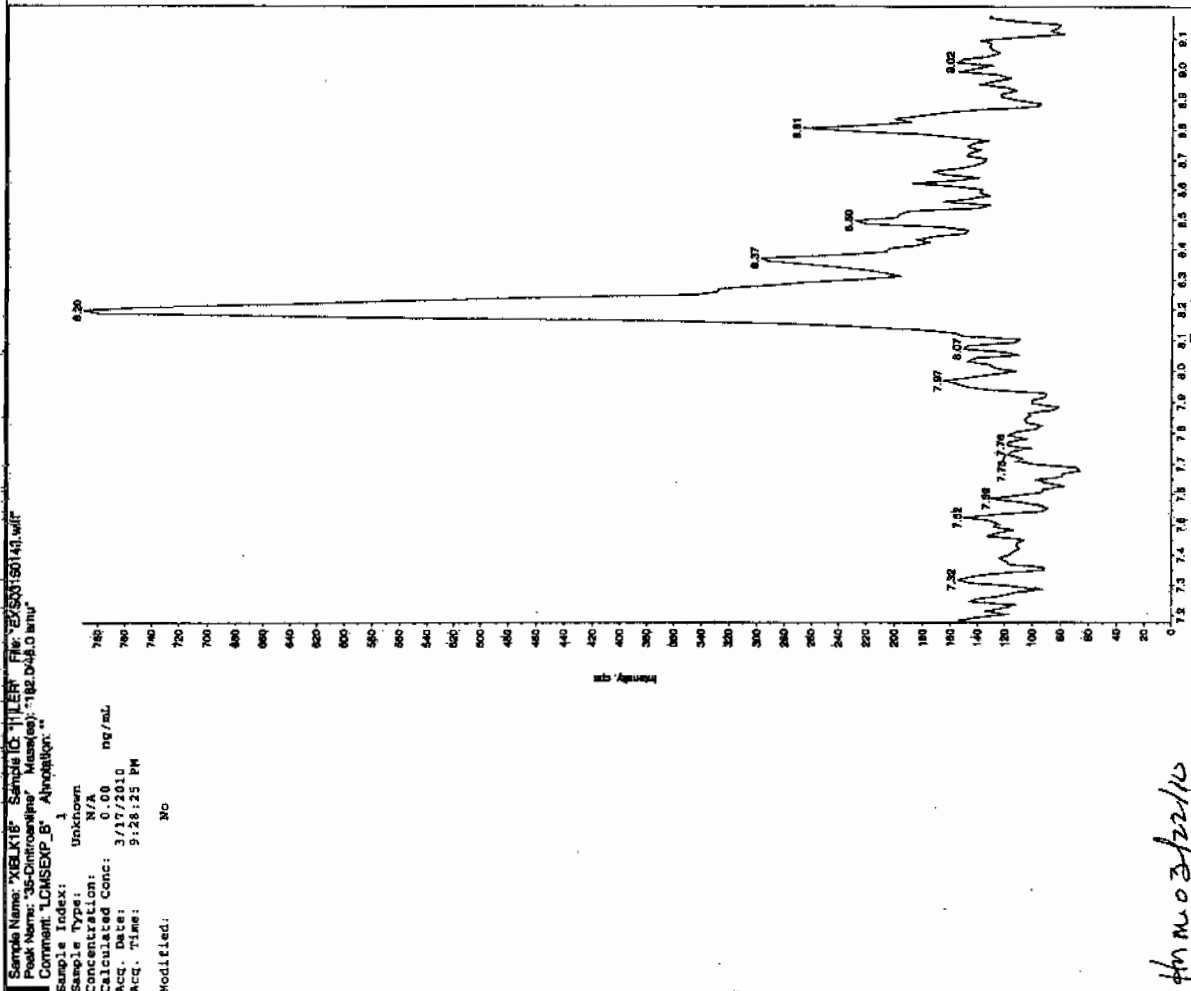
GEL Data File: EXS03160143.wiff

Instrument ID: LCMSMS

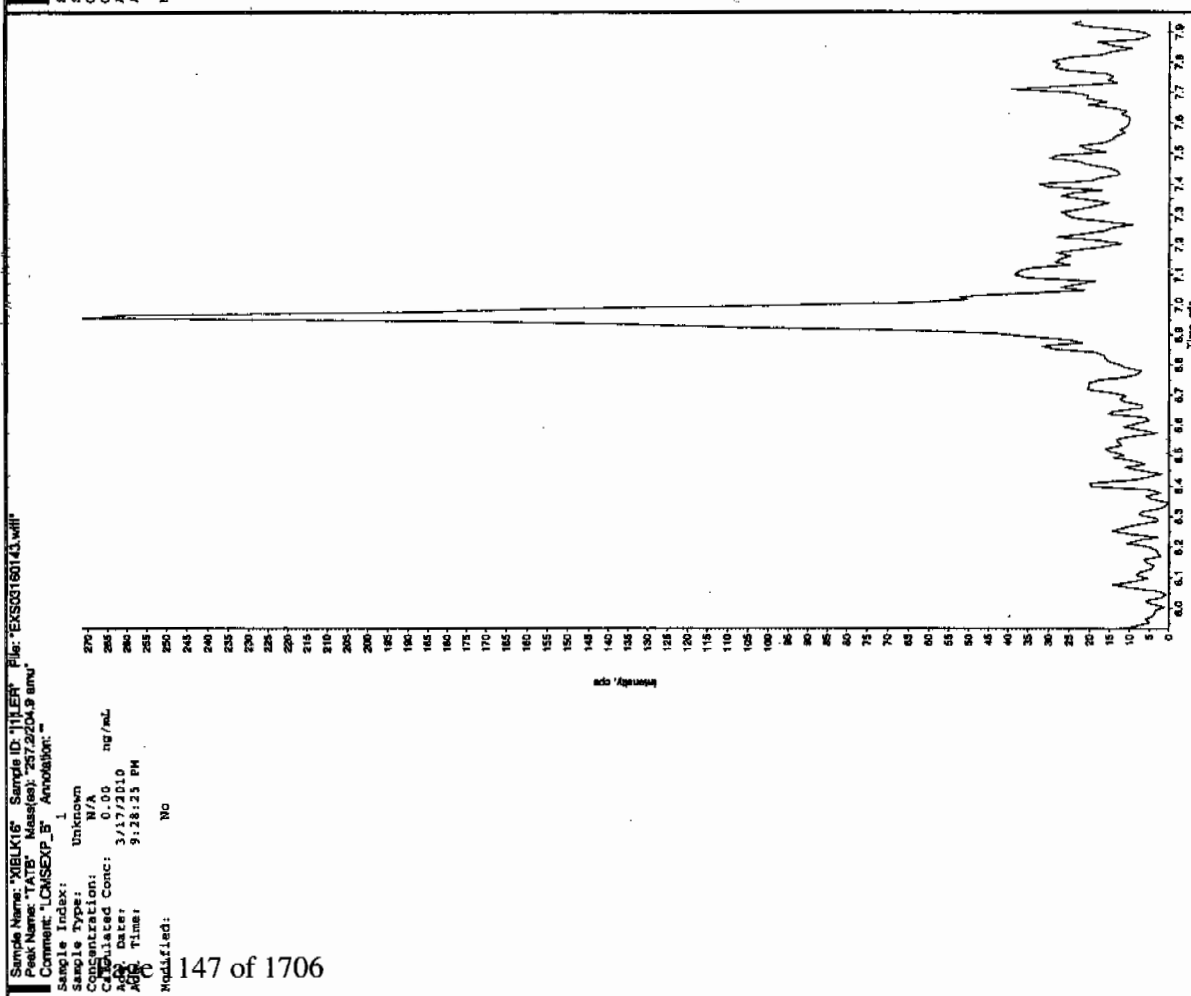
Column: Phenomenex Ultracarb 5u ODS(20)

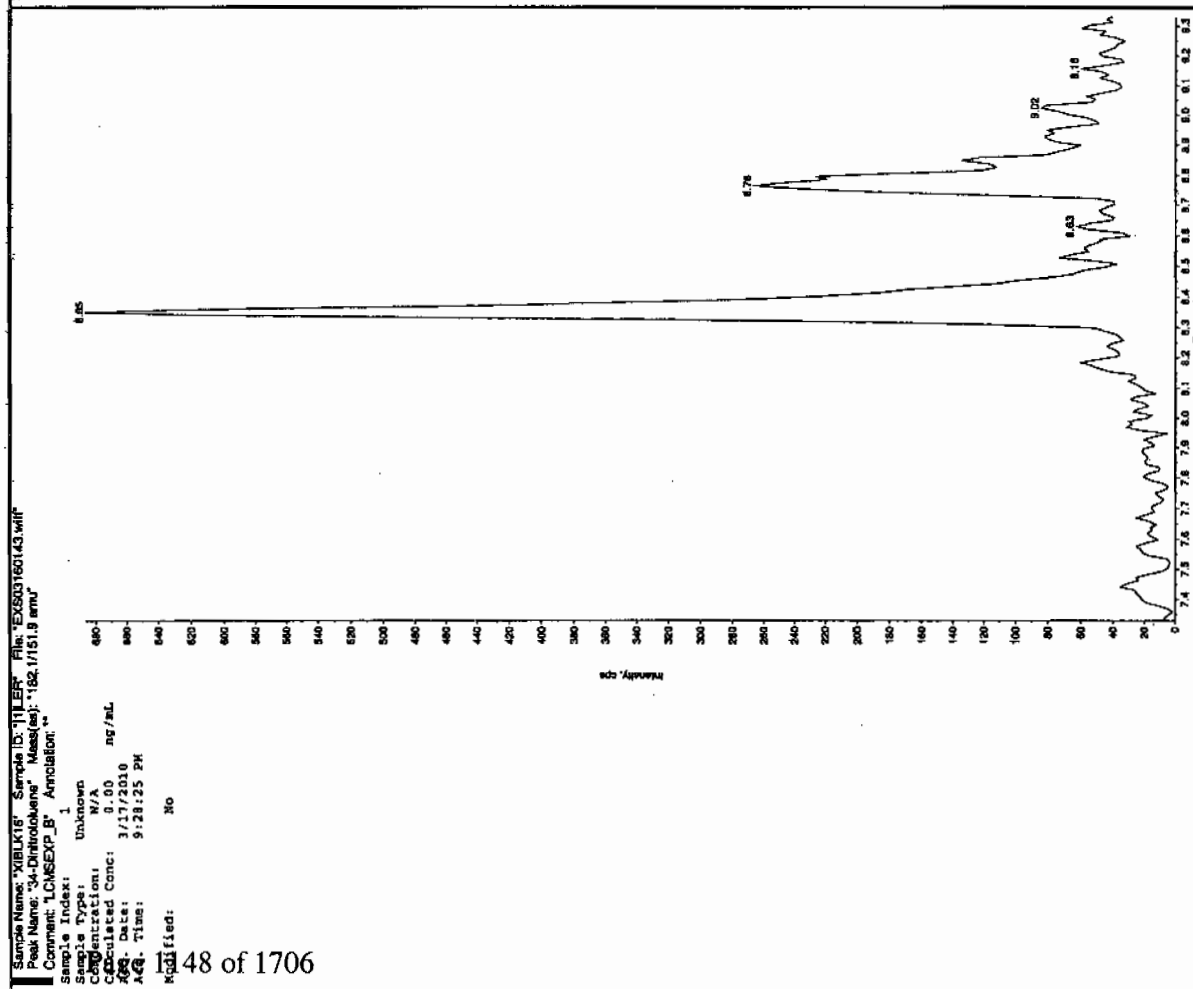
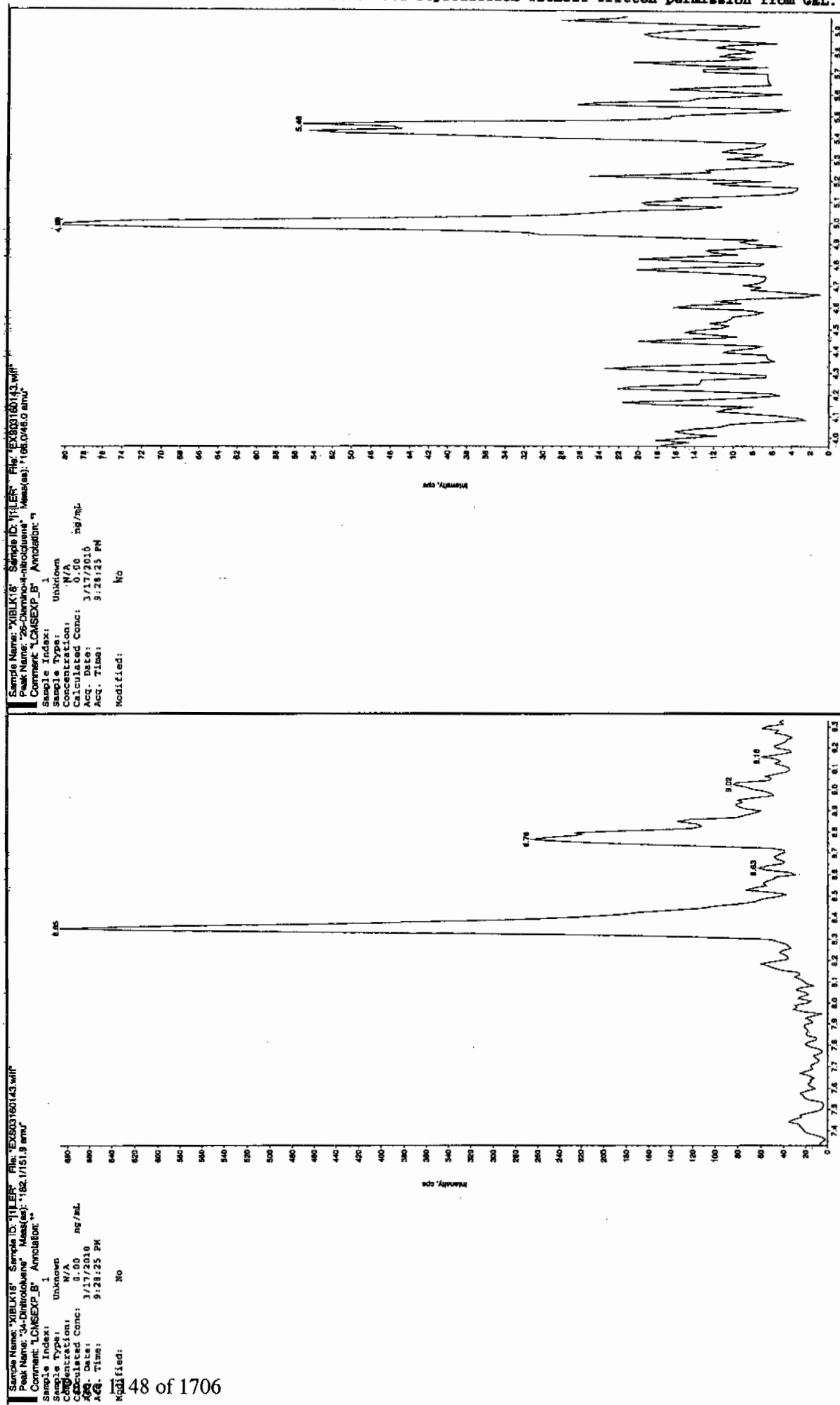
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.513
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: "XBLK16" Sample ID: "HILLER" File: "EVS03160143.wiff"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:28:23 PM
 Modified: No

Proc. Algorithm: IntellQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

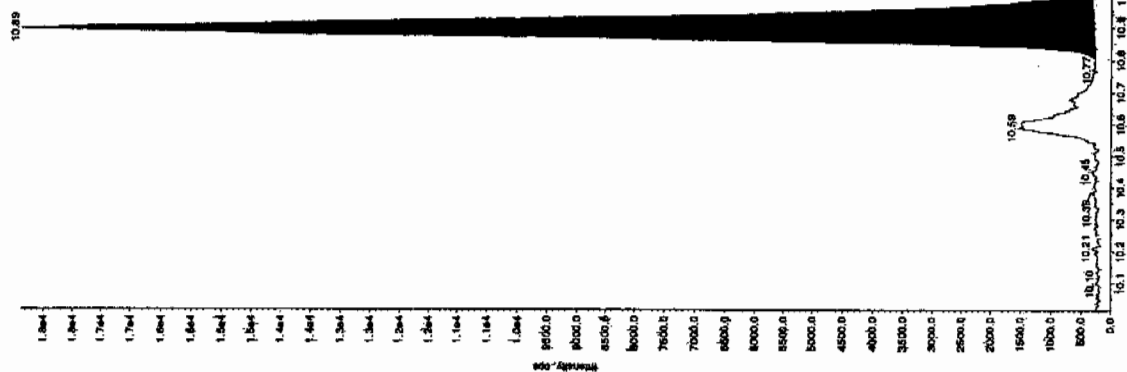
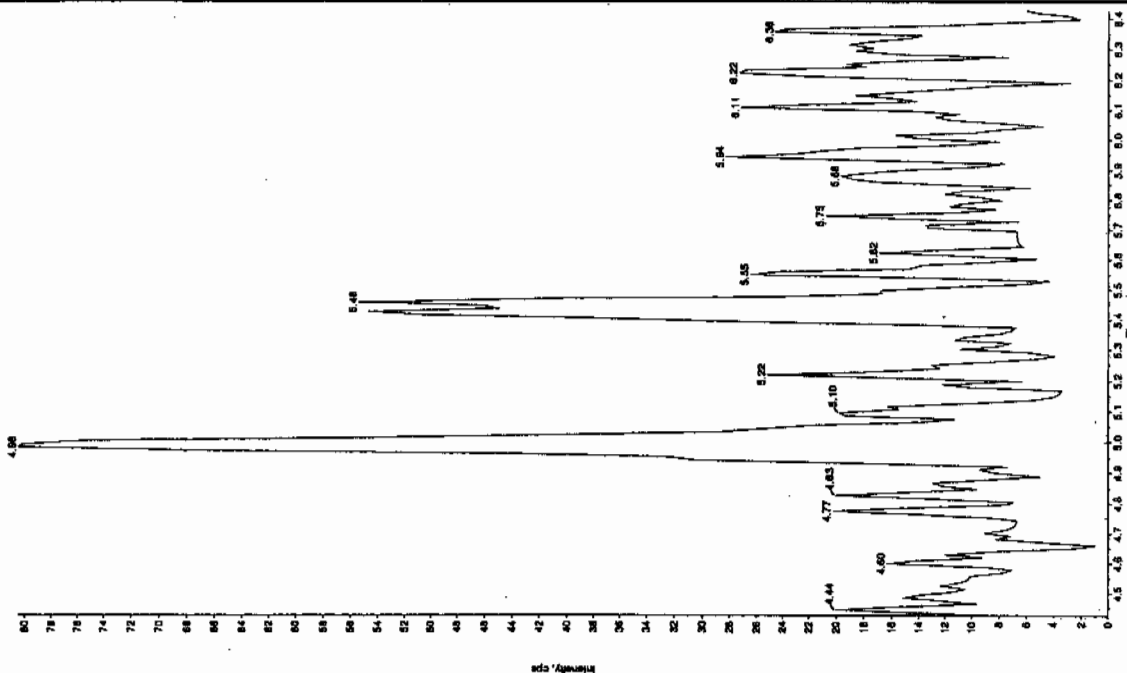
Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.36e+004 counts
 Height: 18096.106 cps
 Start Time: 10.8 min
 End Time: 11.1 min

Sample Name: "XBLK16" Sample ID: "HILLER" File: "EVS03160143.wiff"
 Peak Name: "tris(cis-octyl) phosphite" Mass(es): "389.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.513 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:28:23 PM
 Modified: No

Proc. Algorithm: IntellQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.36e+004 counts
 Height: 18096.106 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK17

Analysis Date: 17-MAR-10 22:15

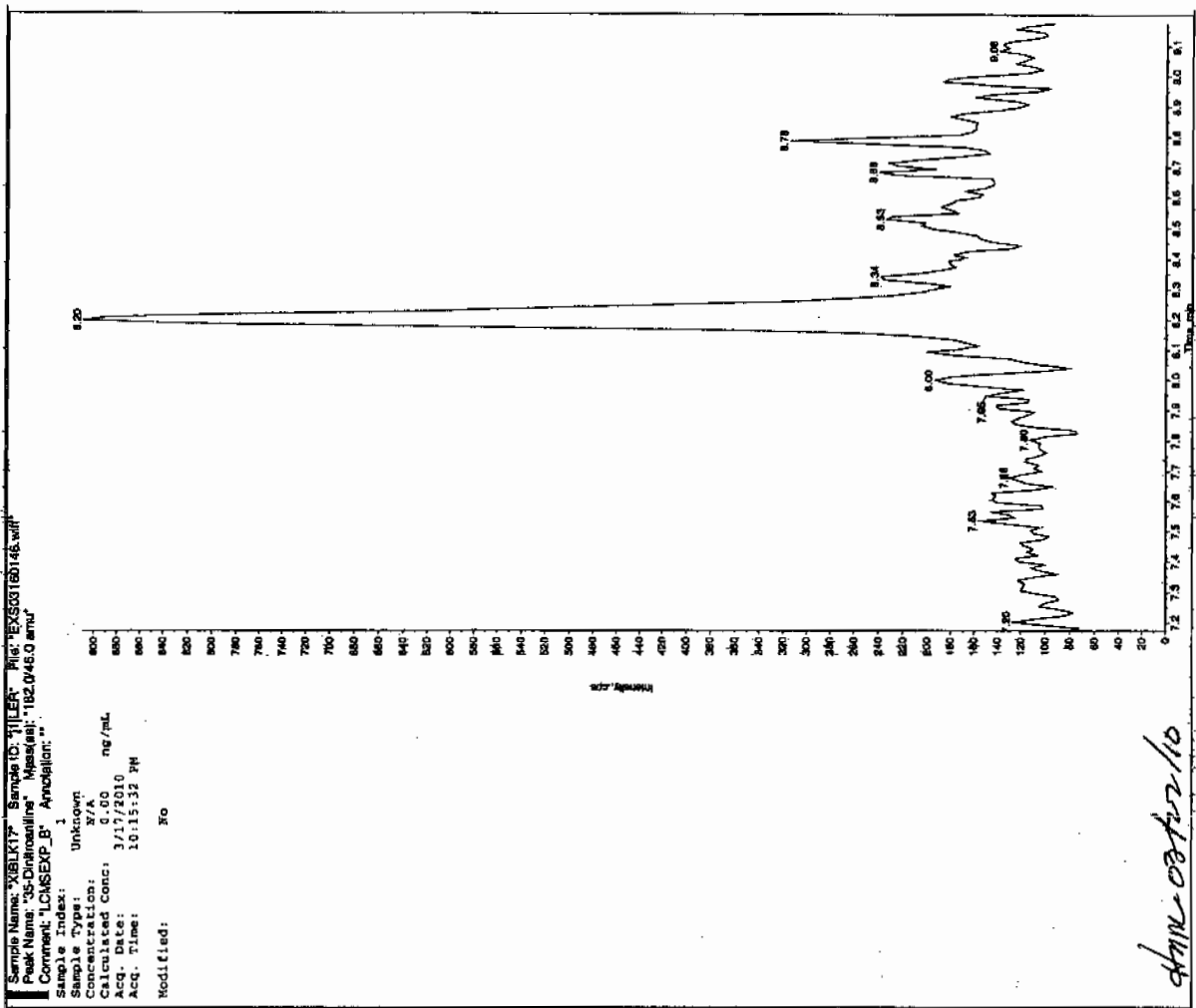
GEL Data File: EXS03160146.wiff

Instrument ID: LCMSMS

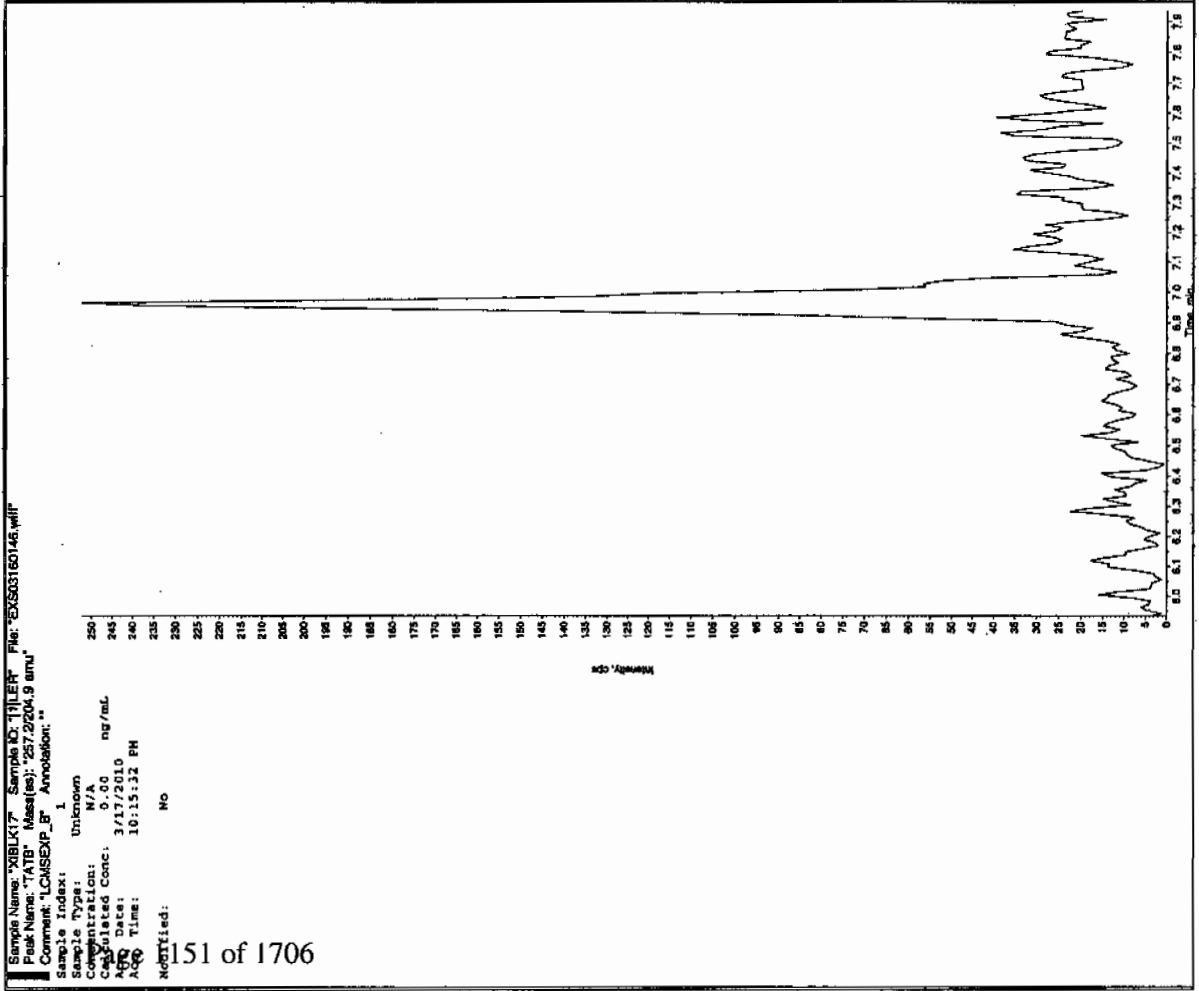
Column: Phenomenex Ultracarb 5u ODS(20)

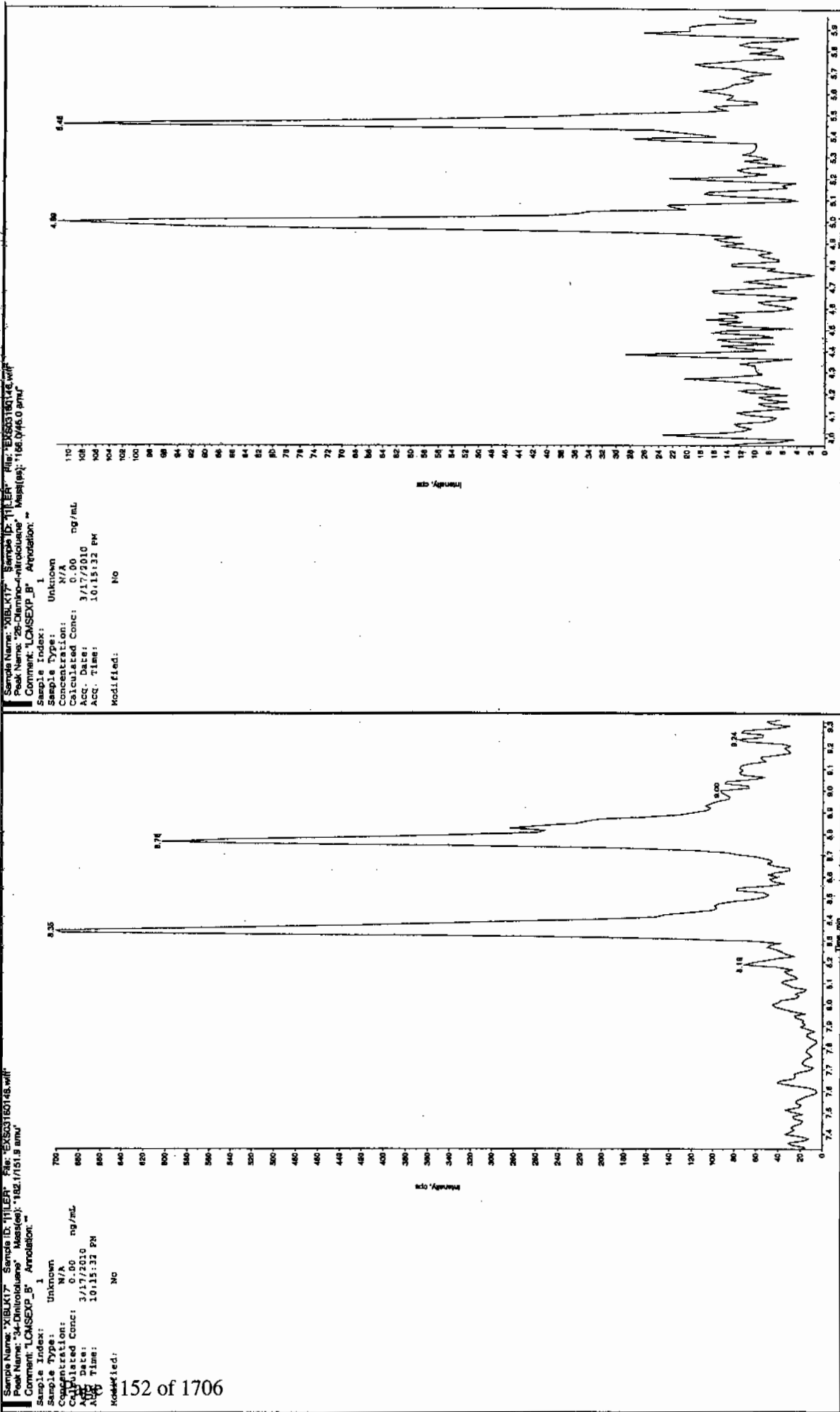
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.904
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Scan 310110



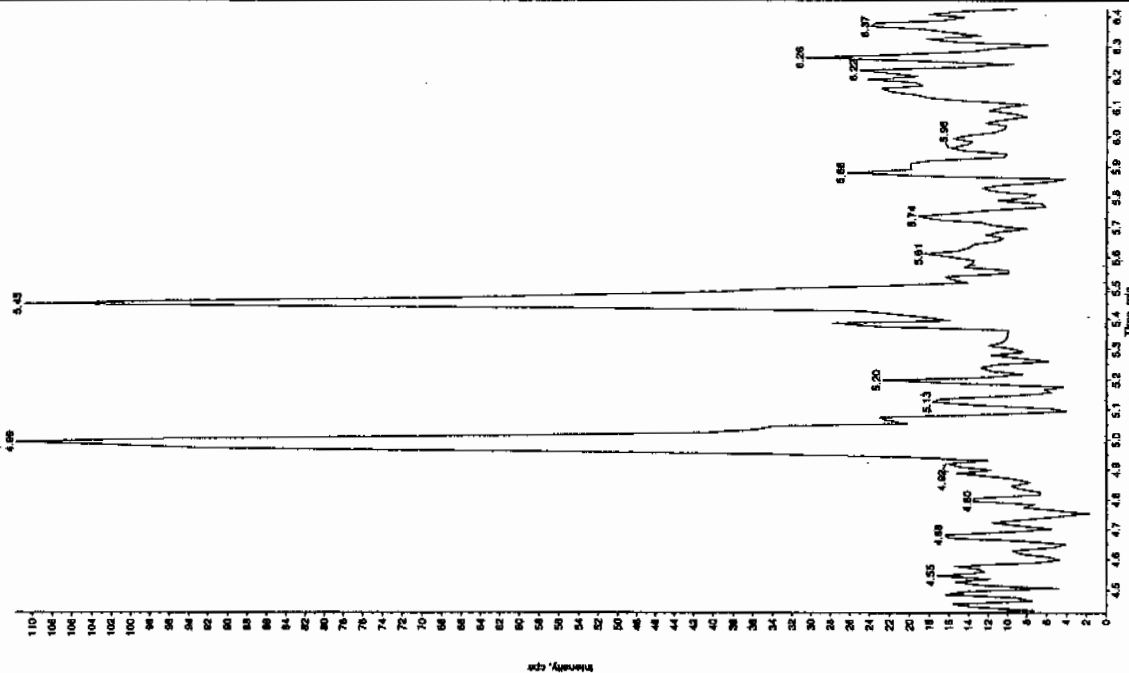
Scan 0812110





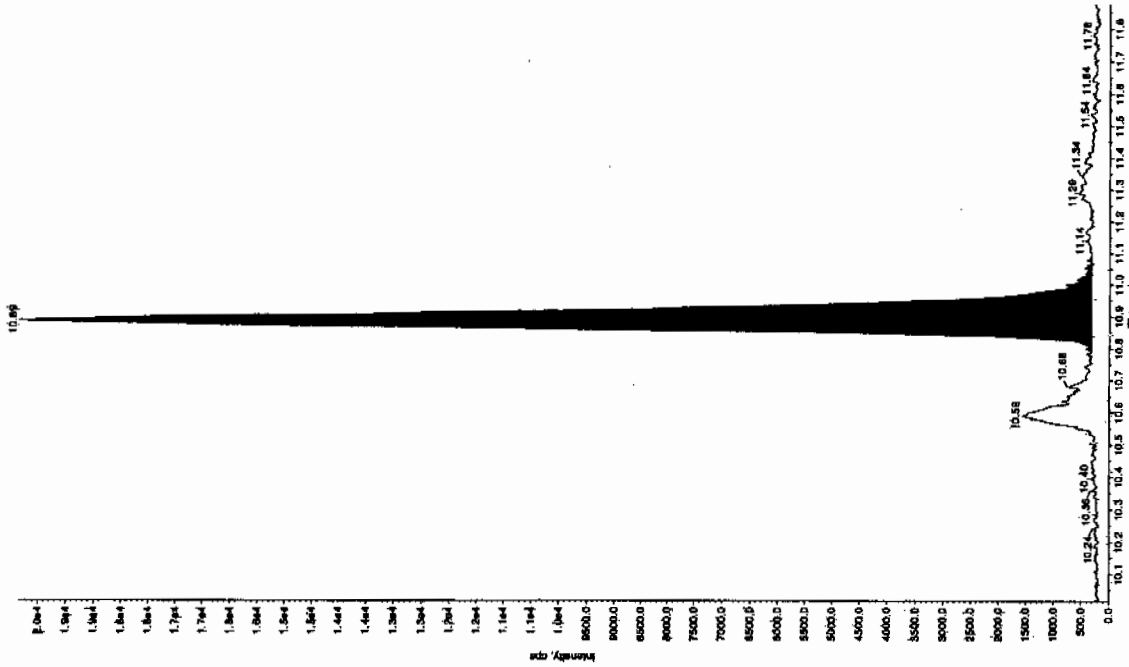
Sample Name: "XBLX17" Sample ID: "111ER" File: "EX83180146.wif"
 Peak Name: "2,4-Diamino-5-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.70 ng/mL
 Calculated Conc: 3.17/10.0
 Acq. Date: 10:15:32 PM
 Acq. Time: 10:15:32 PM
 Modified: No



Sample Name: "XBLX17" Sample ID: "111ER" File: "EX83180146.wif"
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "368.191.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.70 ng/mL
 Calculated Conc: 3.17/10.0
 Acq. Date: 10:15:32 PM
 Acq. Time: 10:15:32 PM
 Modified: No
 Proc. Algorithm: Interlockup - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.86e004 counts
 Height: 19536.744 cps
 Start Time: 10.4 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK18

Analysis Date: 18-MAR-10 00:52

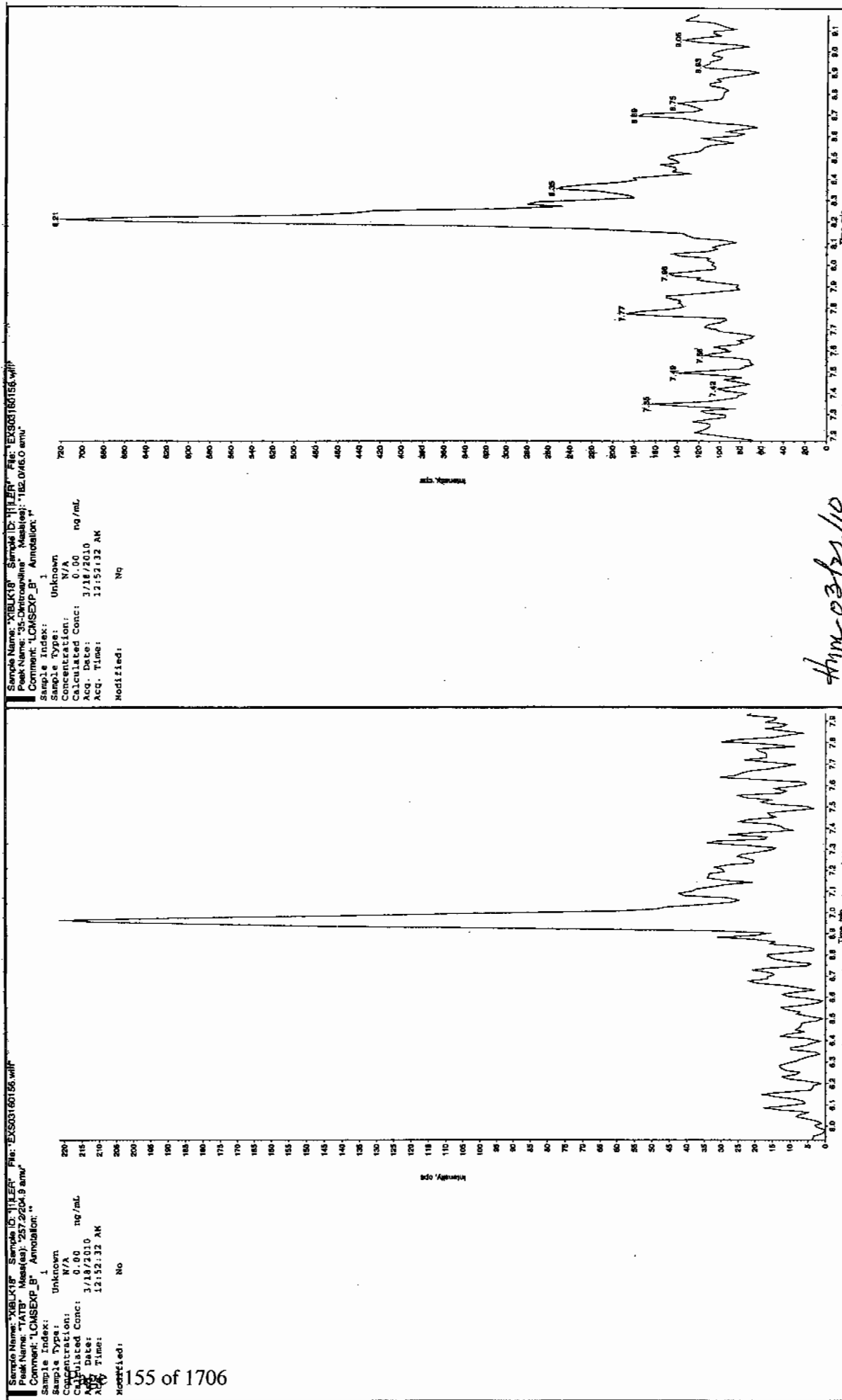
GEL Data File: EXS03160156.wiff

Instrument ID: LCMSMS

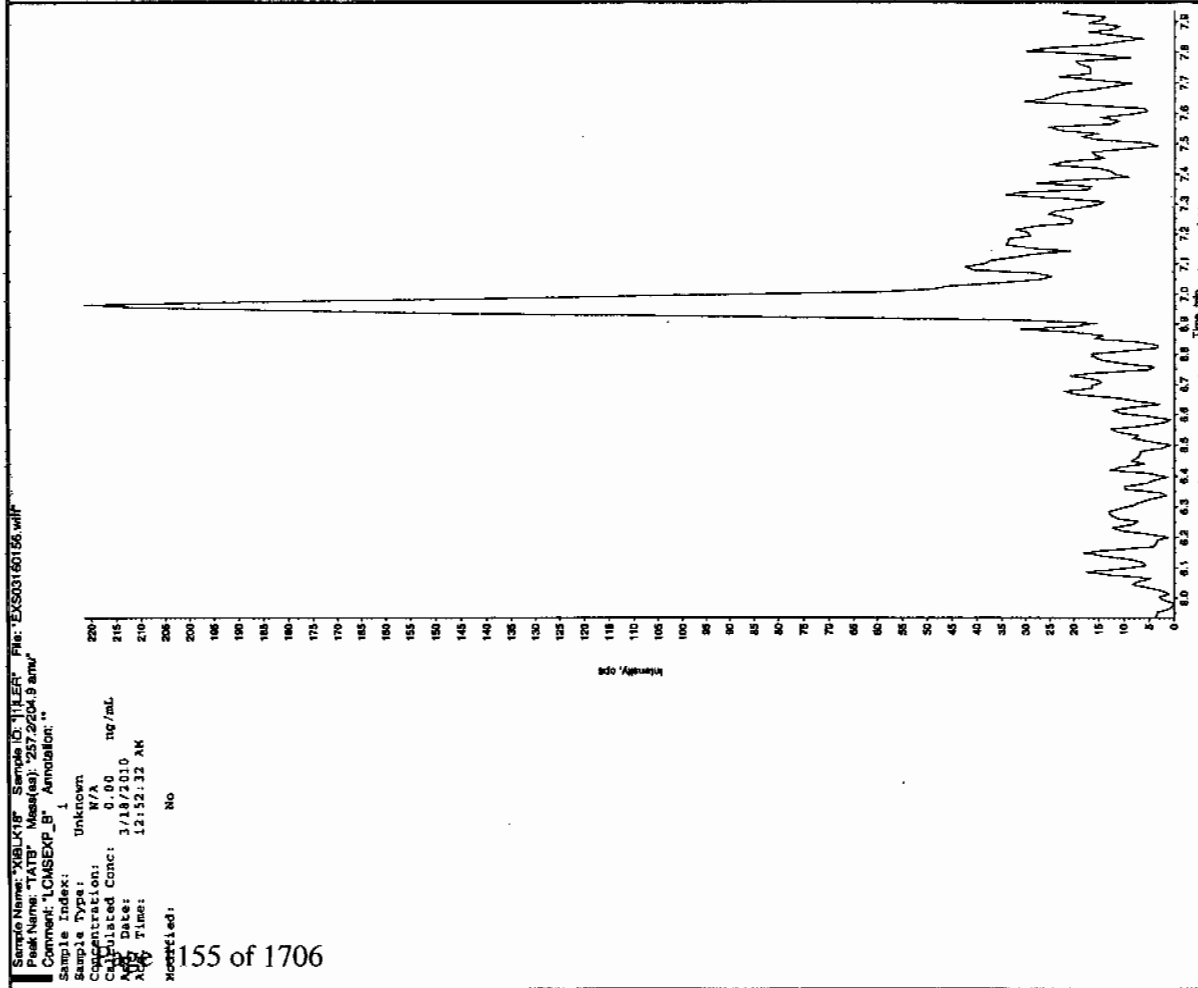
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.00818
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0

See 810110

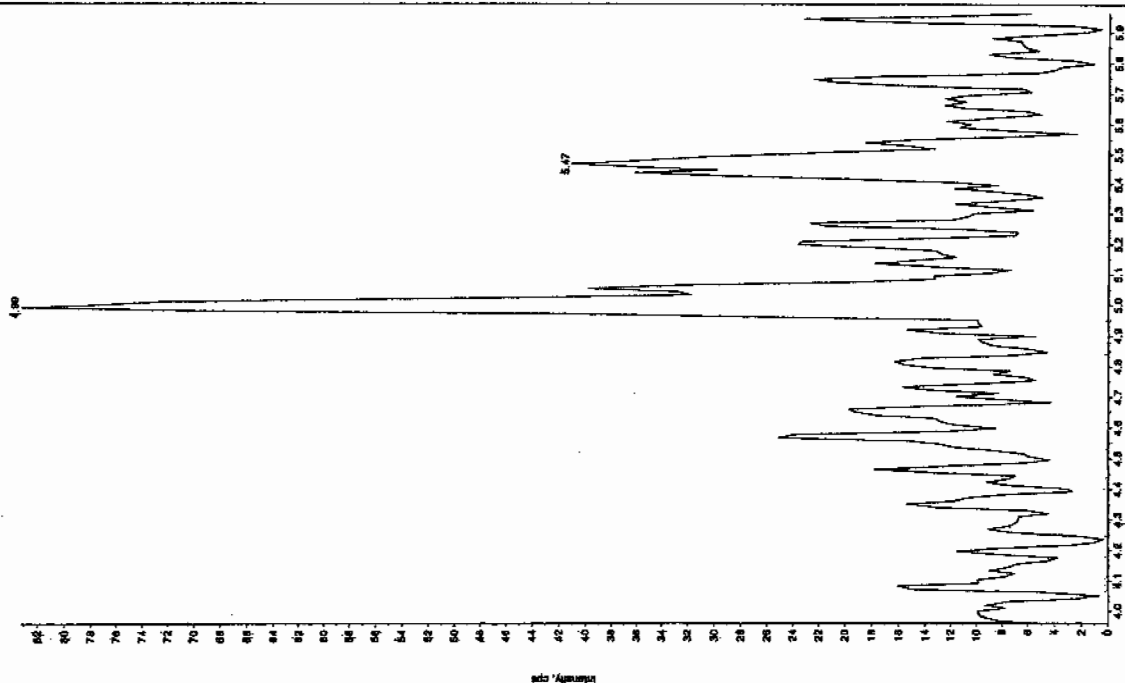


4/10/03/21/10



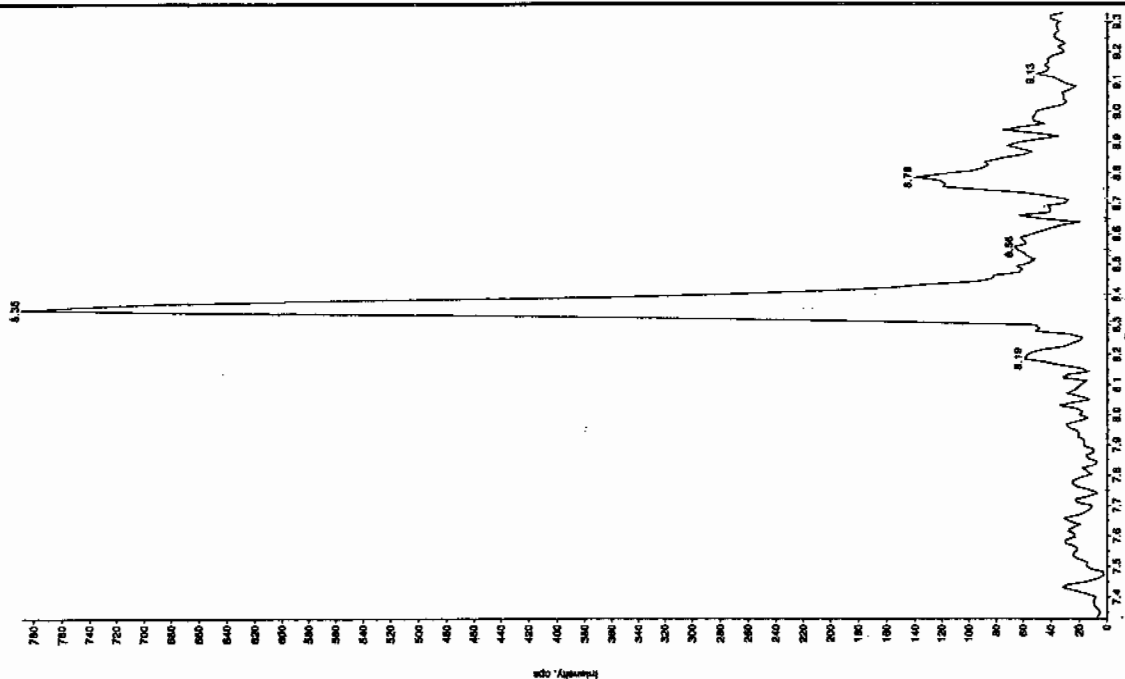
Sample Name: "XBLK18" Sample ID: "11111" File: "EVS03160155.wif"
 Peak Name: "28-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

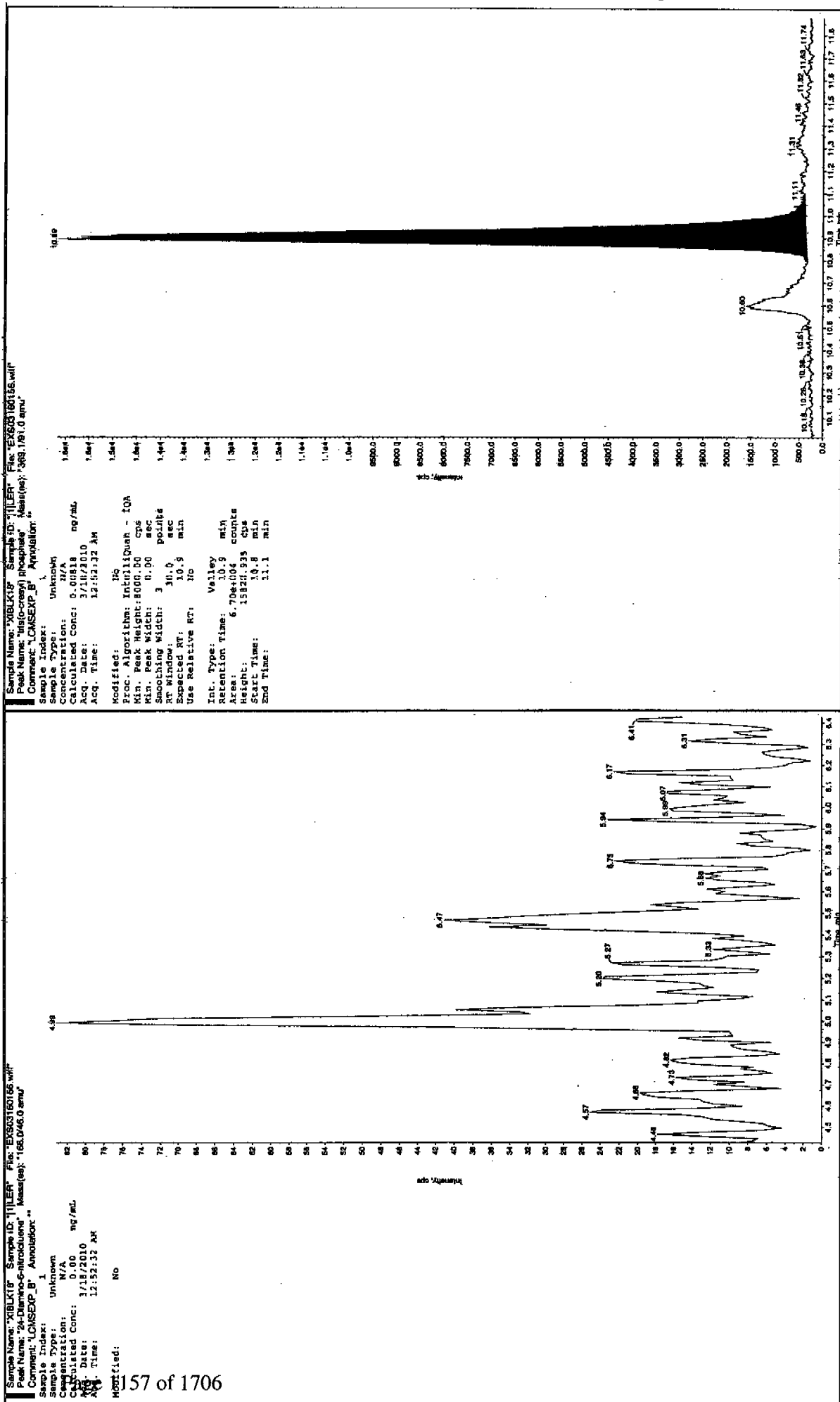
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 12:52:32 AM
 Modified: No



Sample Name: "XBLK18" Sample ID: "11111" File: "EVS03160155.wif"
 Peak Name: "24-Dinitrobenzene" Mass(es): "182.1161.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 12:52:32 AM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK19

Analysis Date: 18-MAR-10 04:16

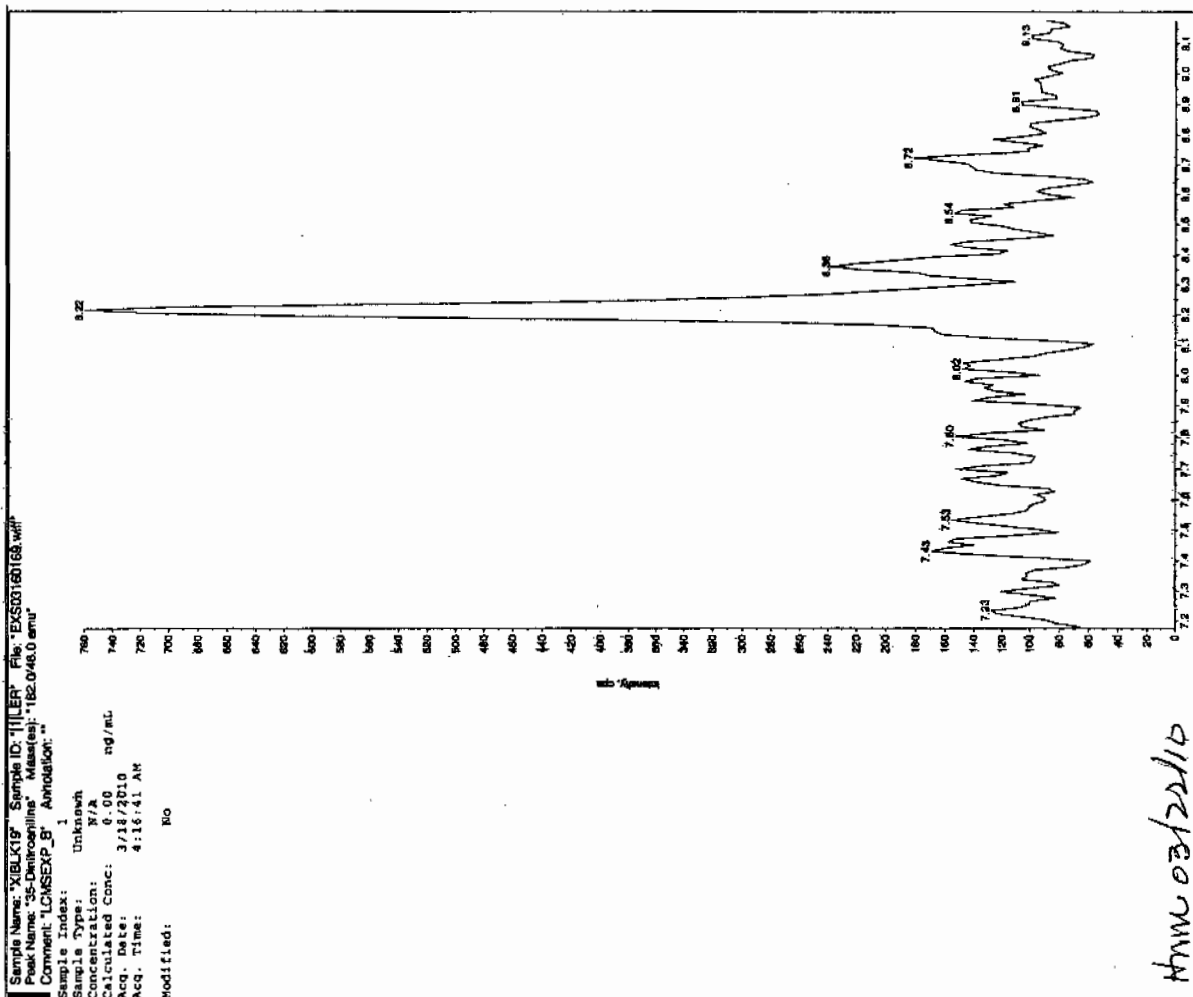
GEL Data File: EXS03160169.wiff

Instrument ID: LCMSMS

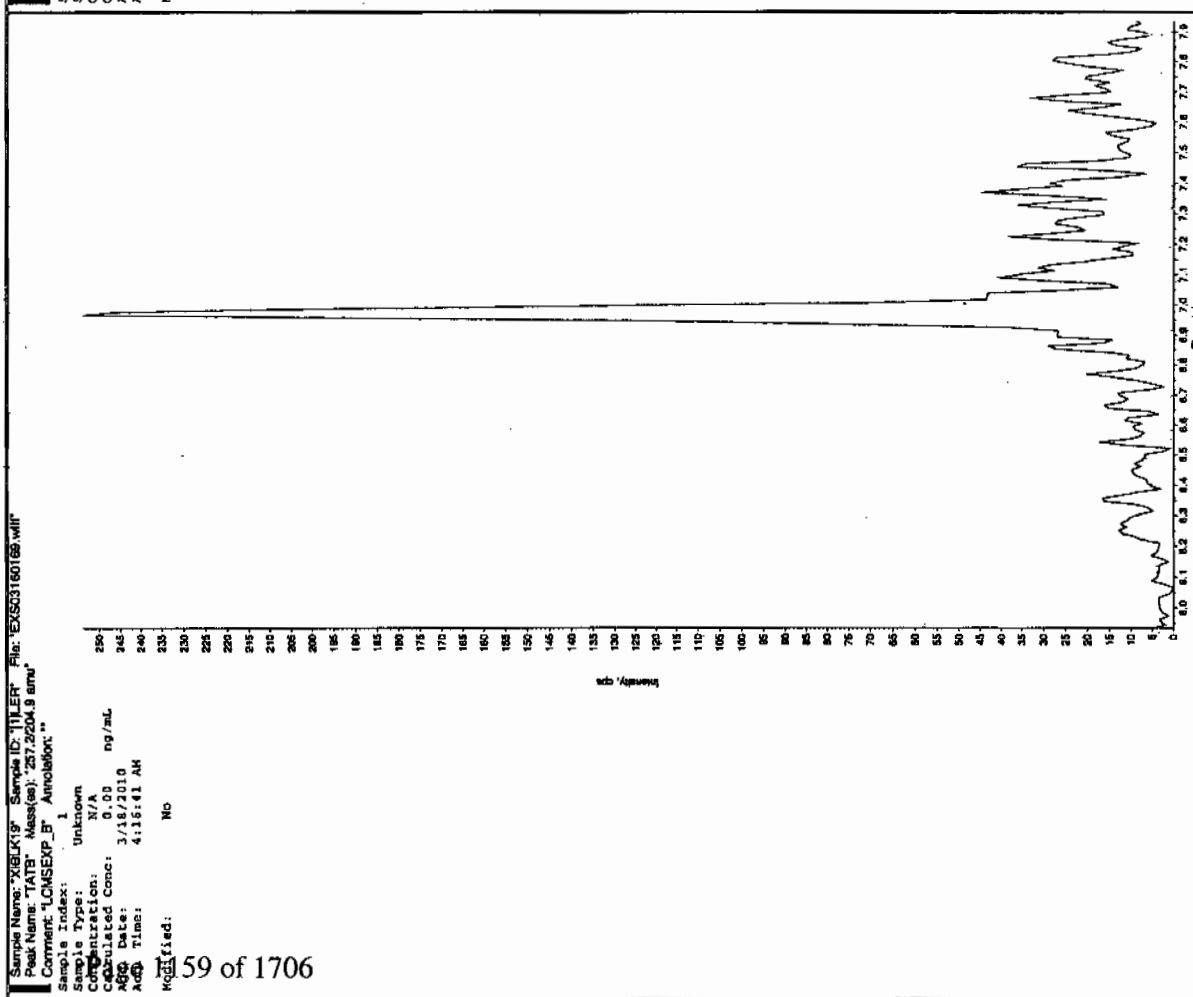
Column: Phenomenex Ultracarb 5u ODS(20)

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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Jan 23/2010



Sample Name: "XIBLK19" Sample ID: "11111" File: "EX503160182.wif"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

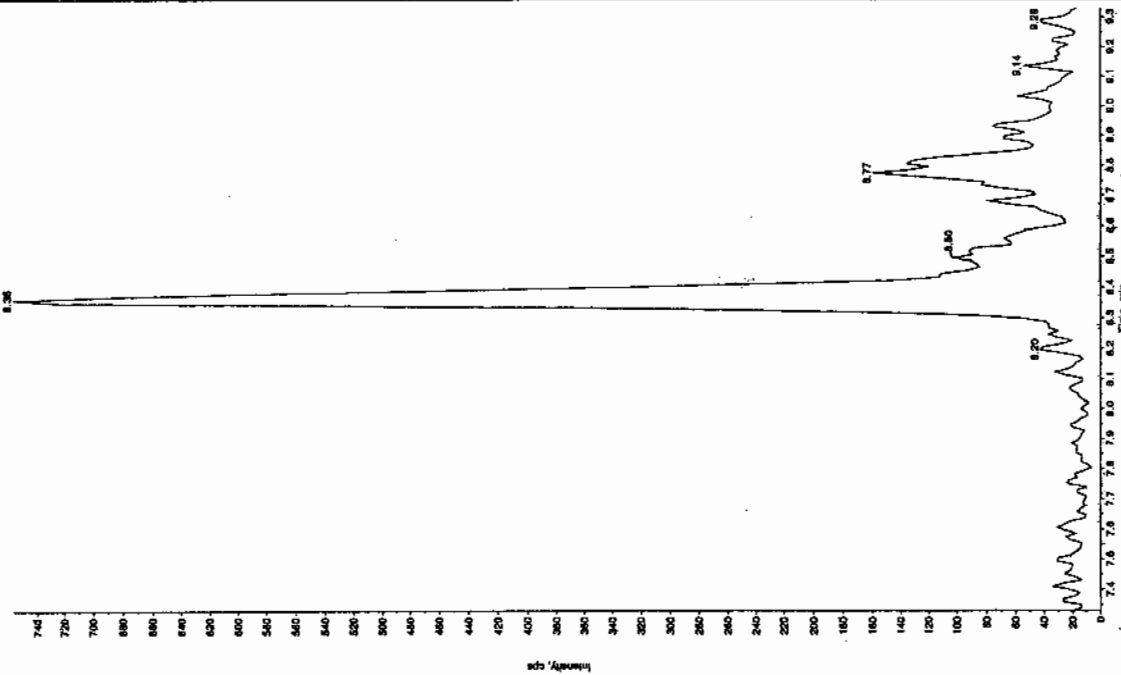
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/18/2010

Acq. Time: 4:16:41 AM

Modified: No



Sample Name: "XIBLK19" Sample ID: "11111" File: "EX503160182.wif"

Peak Name: "28-Dinitrotoluene" Mass(es): "186.0/166.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

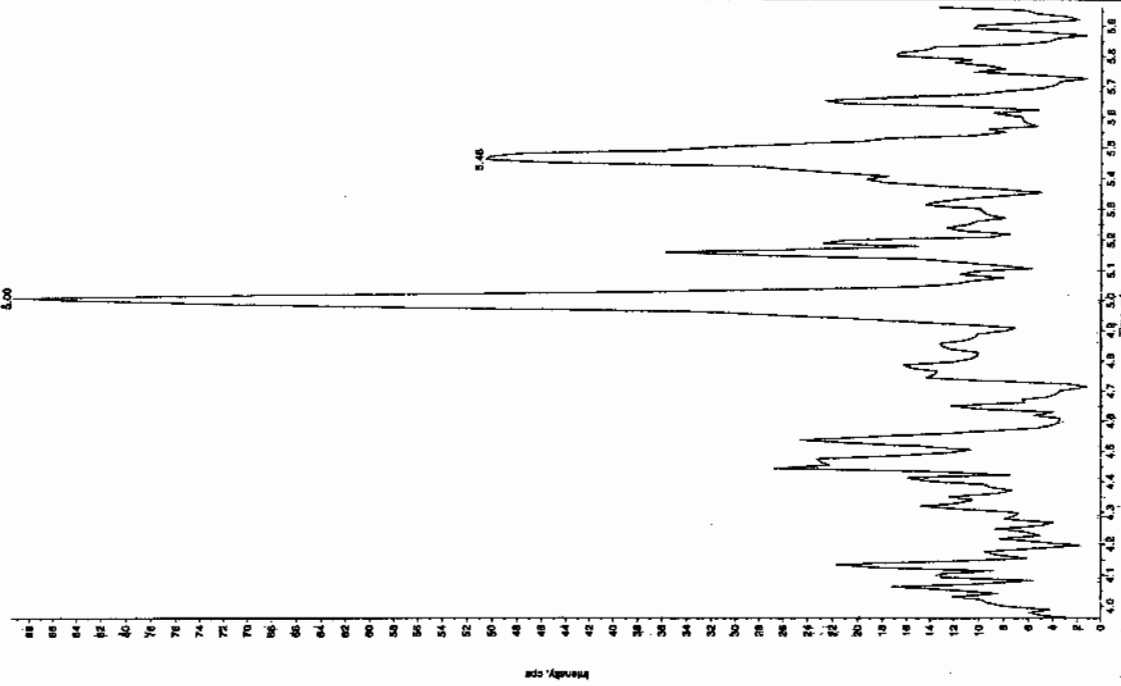
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/18/2010

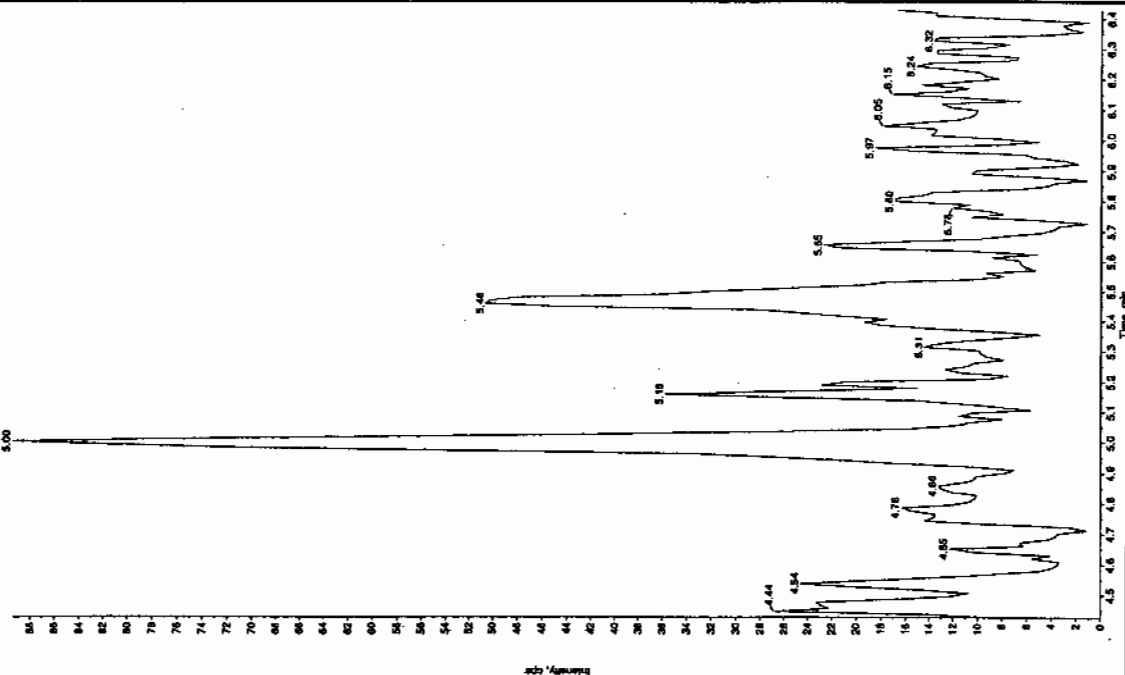
Acq. Time: 4:16:41 AM

Modified: No



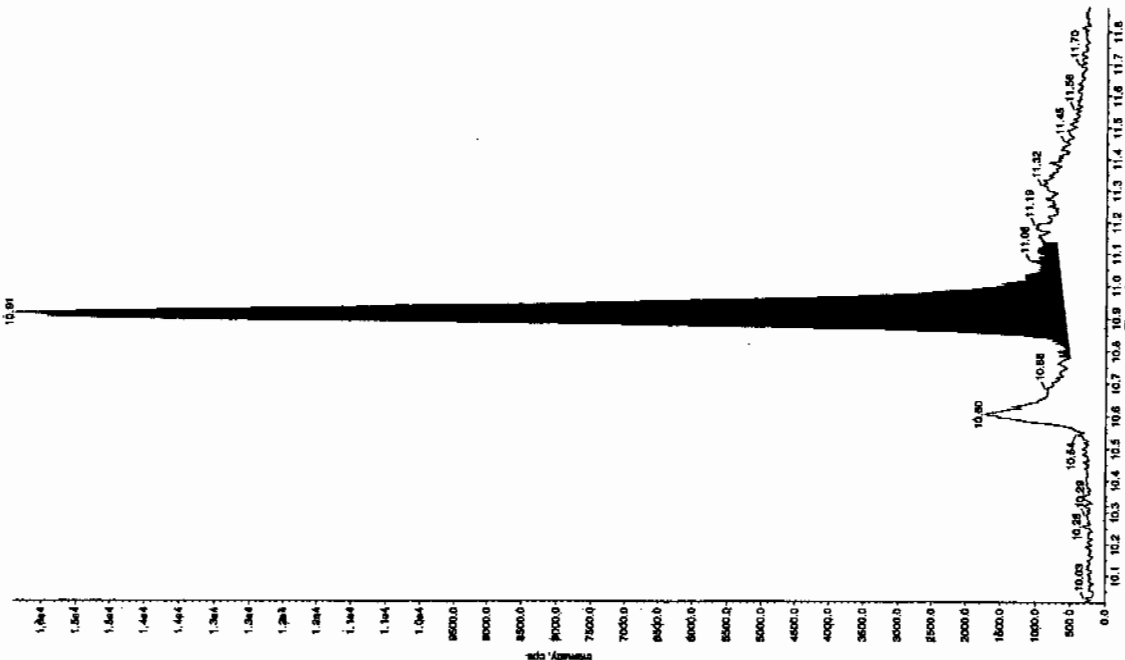
Sample Name: "XBLK19" Sample ID: "111ER" File: "EXS03160168.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/18/2010
 Acq. Date: 4:16:41 AM
 Acq. Time: 4:16:41 AM
 Modified: NO



Sample Name: "XBLK19" Sample ID: "111ER" File: "EXS03160168.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/18/2010
 Acq. Date: 4:16:41 AM
 Acq. Time: 4:16:41 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: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.63e+004 counts
 Height: 15289.556 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-2121

Lab Code: GEL

Lab Sample ID: XIBLK20

Analysis Date: 18-MAR-10 06:06

GEL Data File: EXS03160176.wiff

Instrument ID: LCMSMS

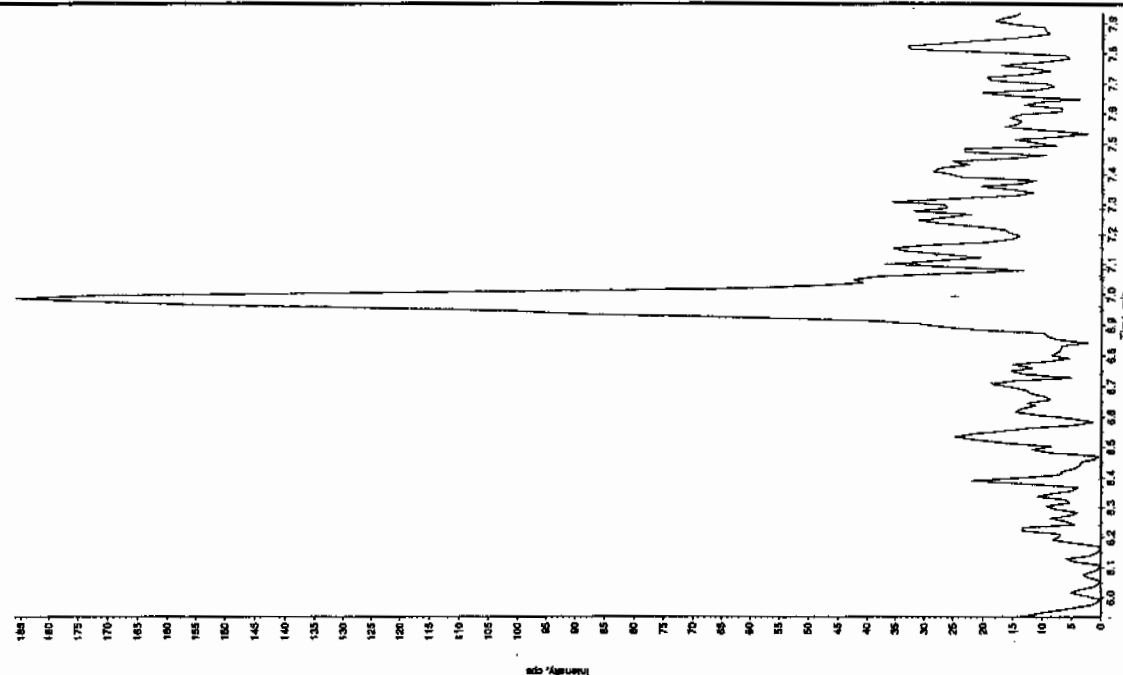
Column: Phenomenex Ultracarb 5u ODS(20)

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

San 3/19/10

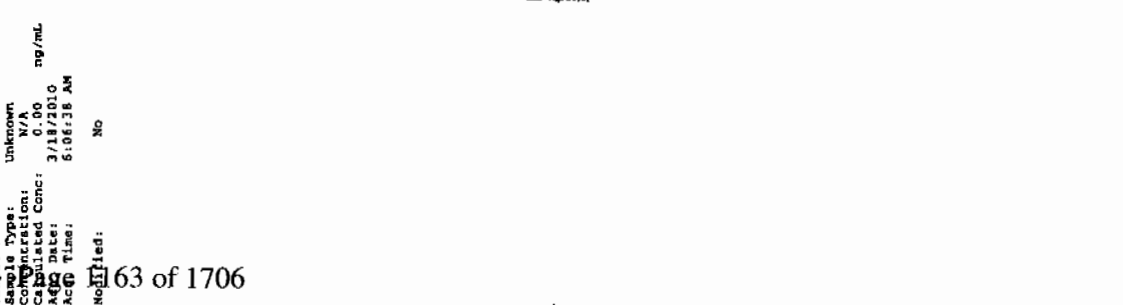
Sample Name: "XBLK20" Sample ID: "111ER" File: "EX503160176.wif"
 Peak Name: "35-Oxotrochilina" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acquisition Date: 3/18/2010
 Acquisition Time: 6:06:38 AM
 Modified: No

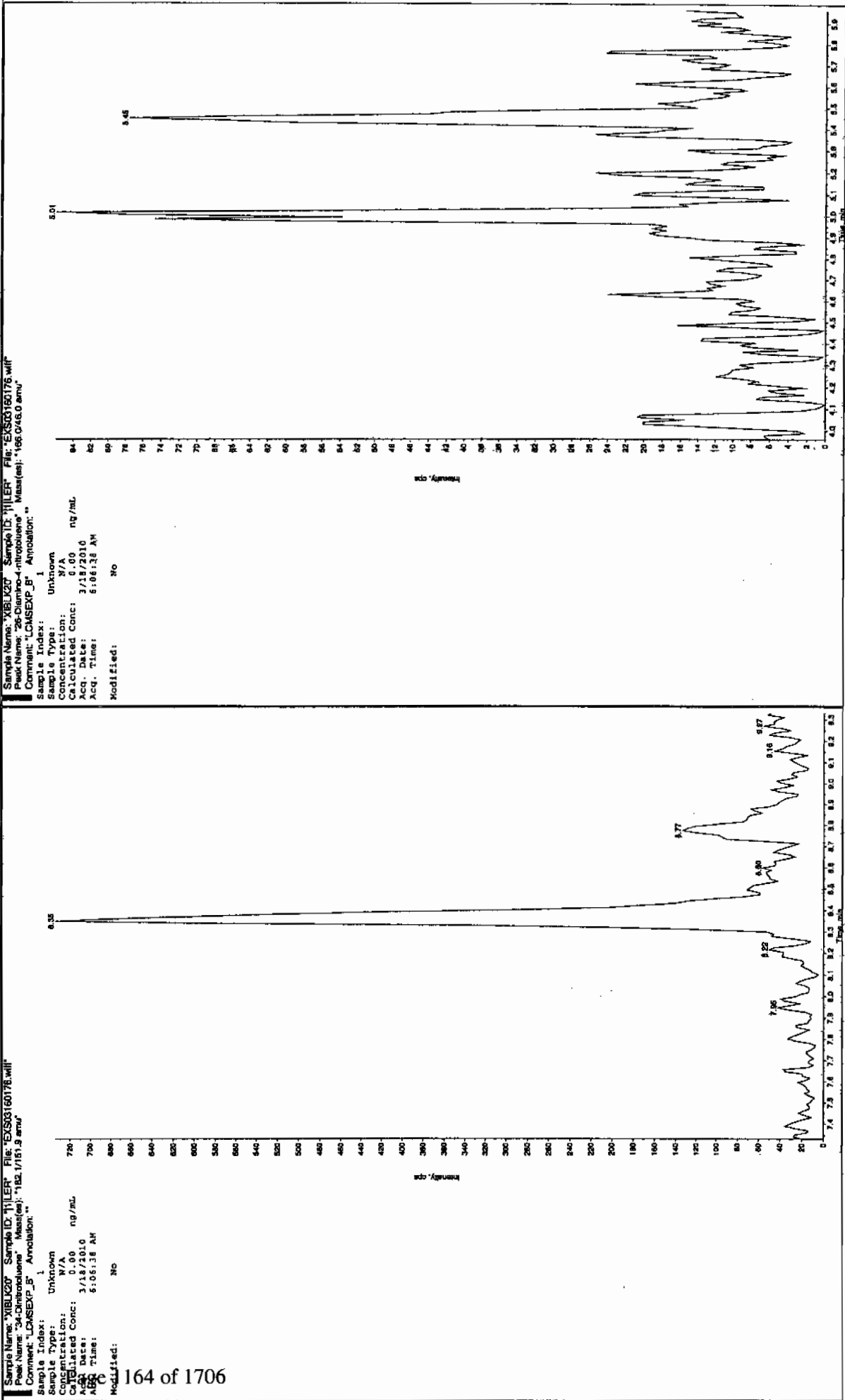


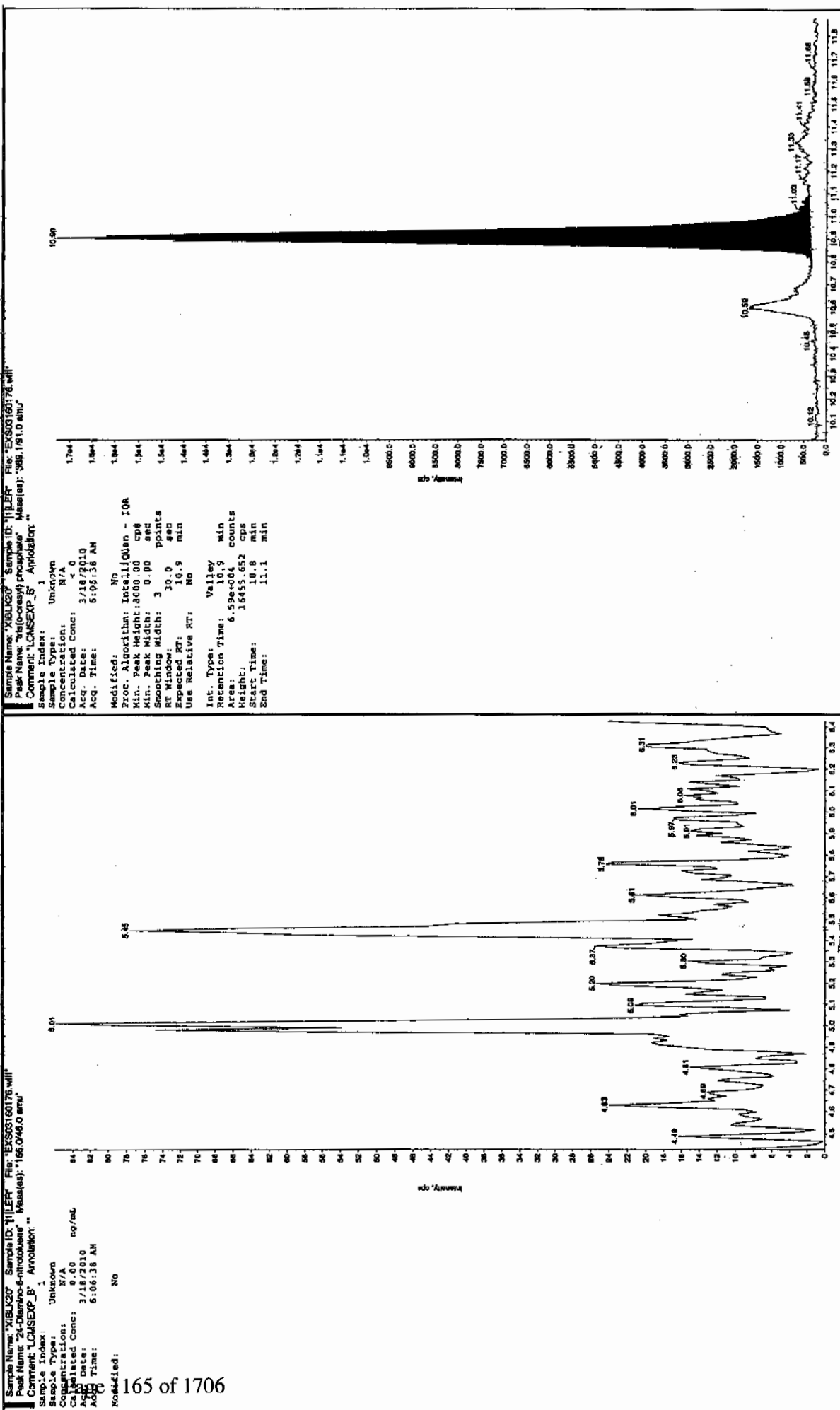
Sample Name: "XBLK20" Sample ID: "111ER" File: "EX503160176.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acquisition Date: 3/18/2010
 Acquisition Time: 6:06:38 AM
 Modified: No



San 03/22/10





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

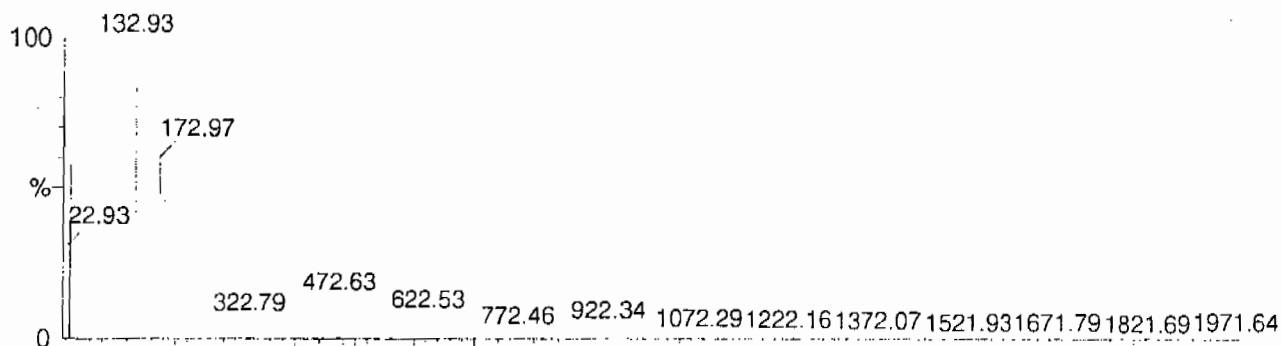
Calibration Report - MS1 Static

Page 1 of 1

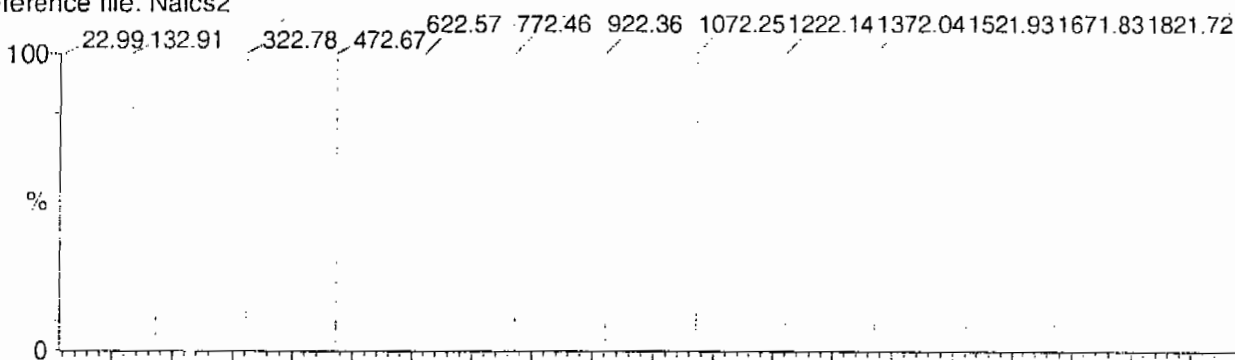
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

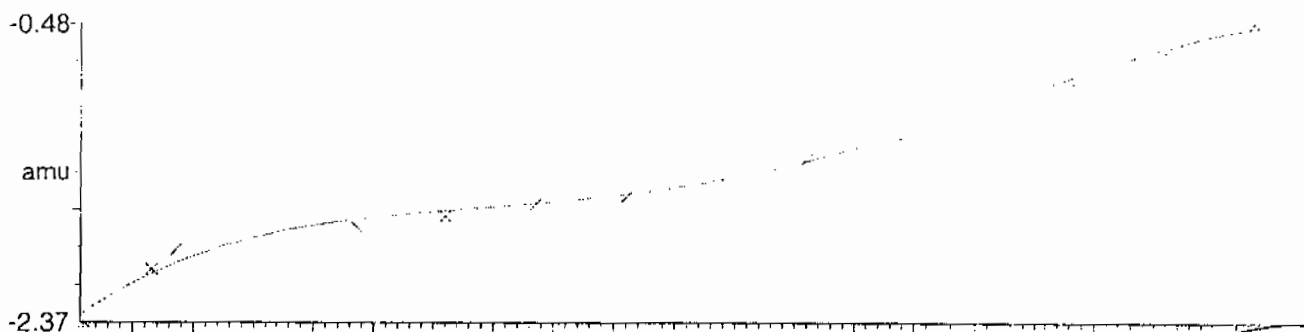
15 matches of 15 tested references



Reference file: Naics2

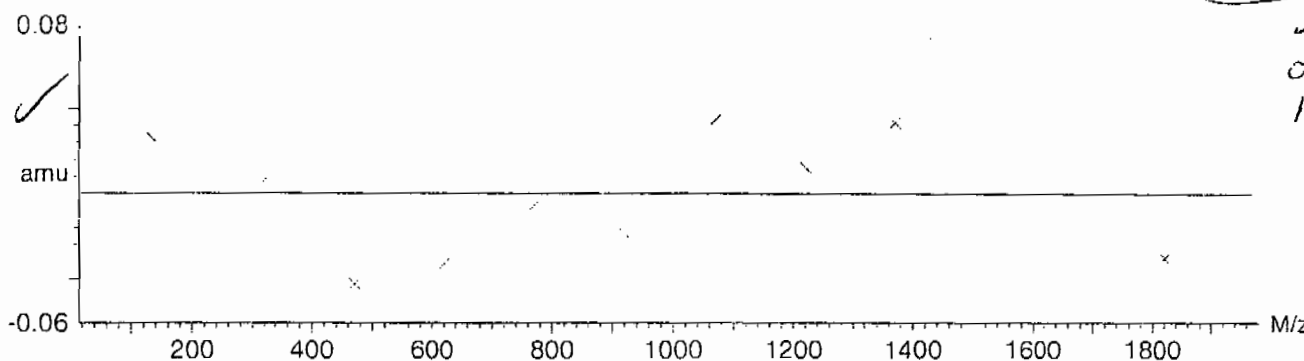


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



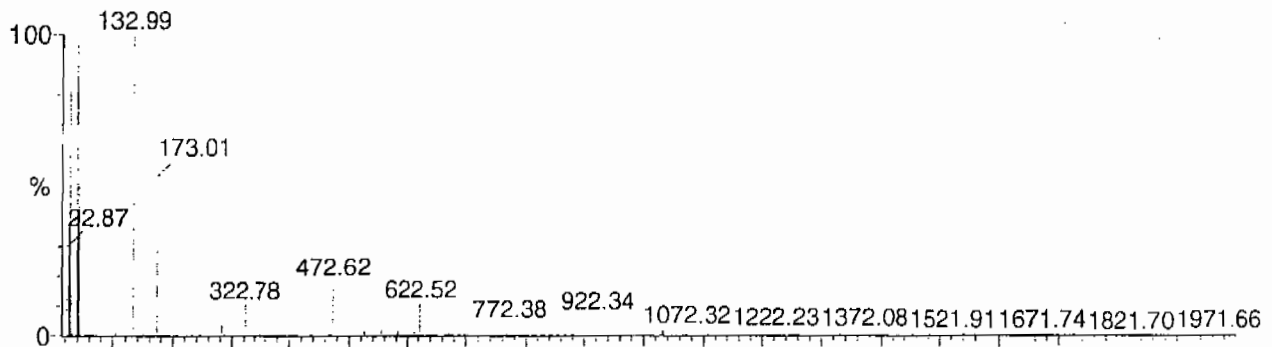
Calibration Report - MS1 Scanning

Page 1 of 1

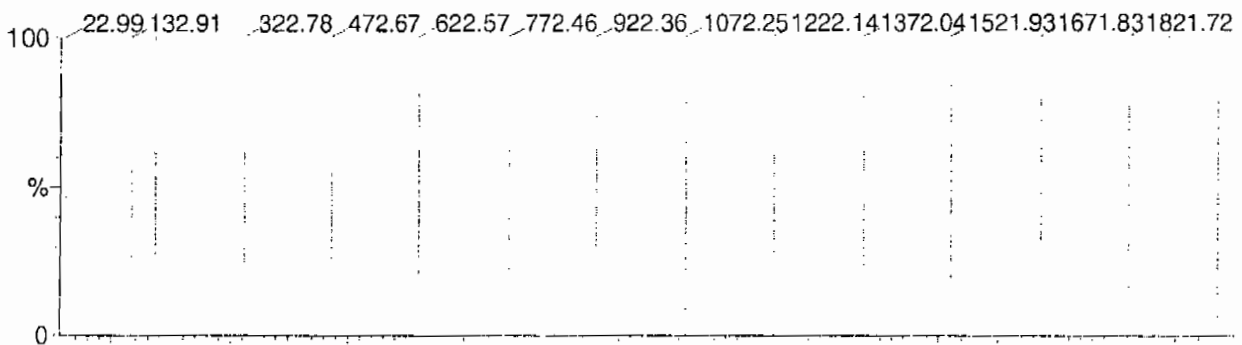
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

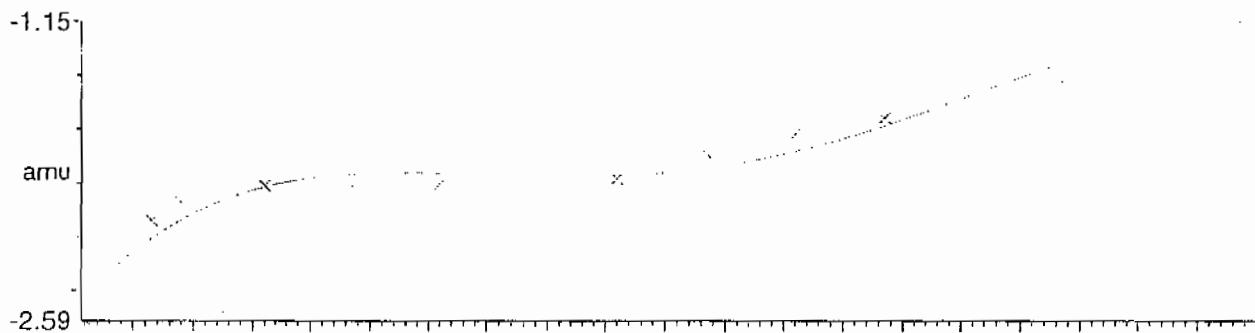
15 matches of 15 tested references



Reference file: Naics2

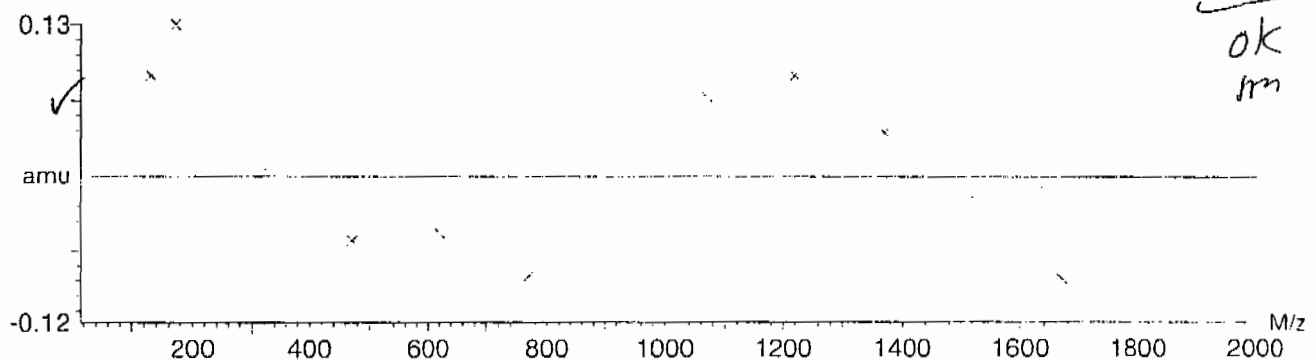


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



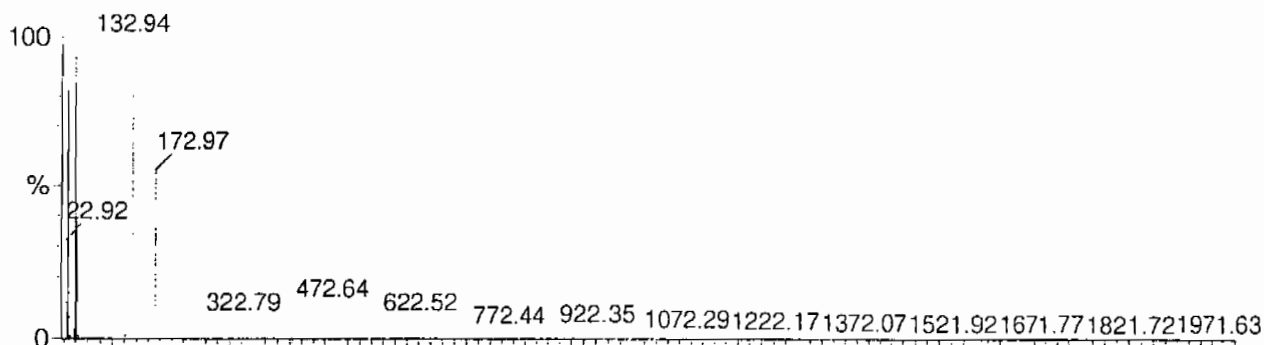
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

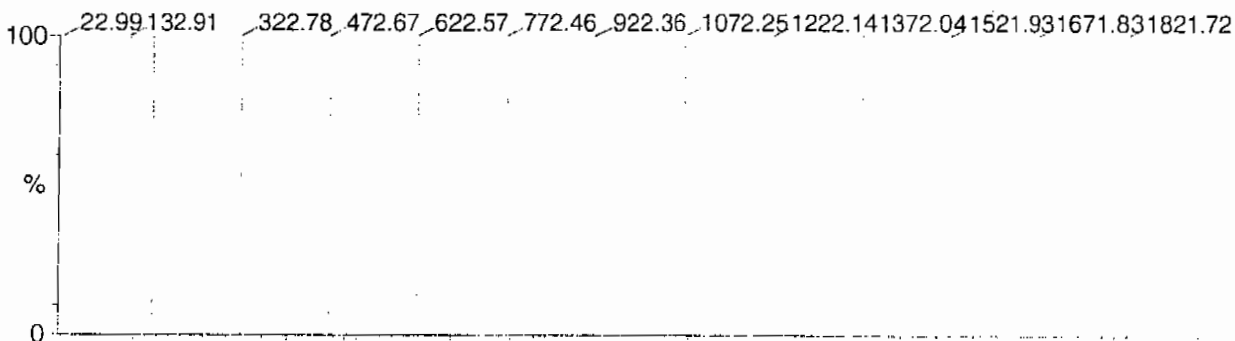
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

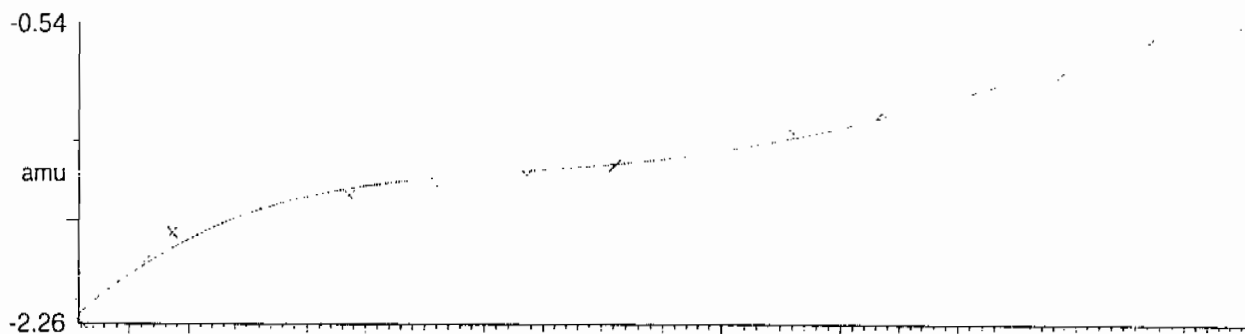
15 matches of 15 tested references



Reference file: Naics2

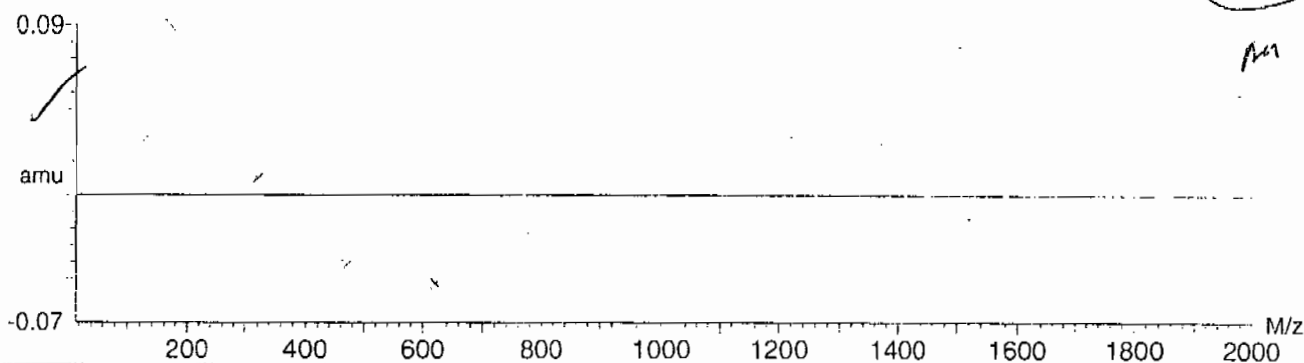


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



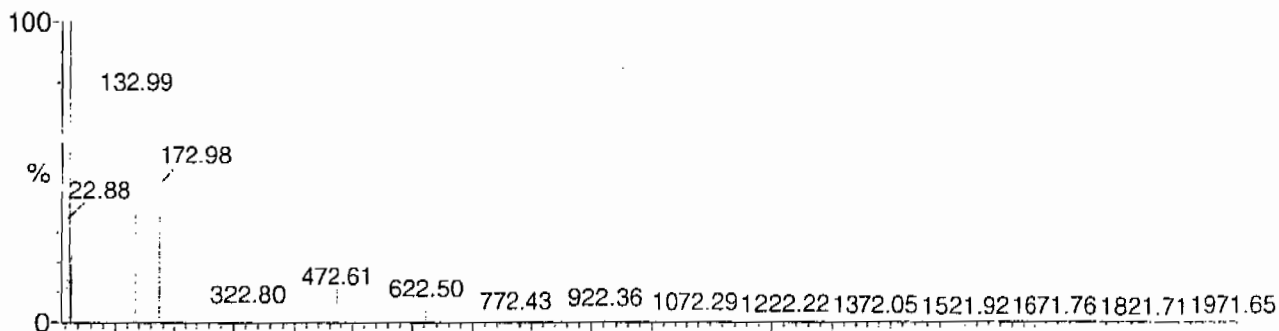
Calibration Report - MS2 Static

Page 1 of 1

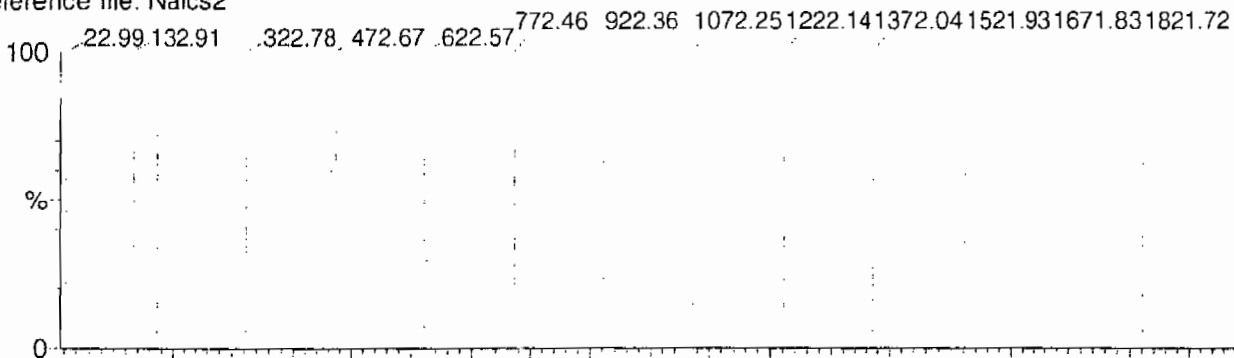
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

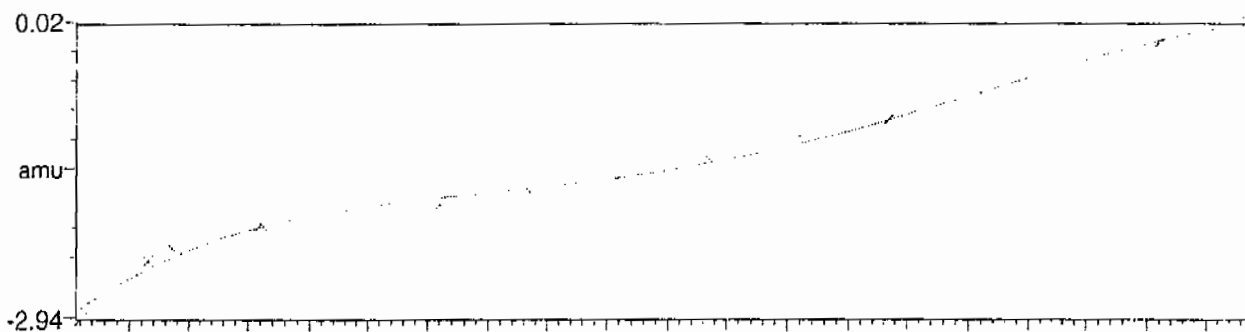
15 matches of 15 tested references



Reference file: Naics2

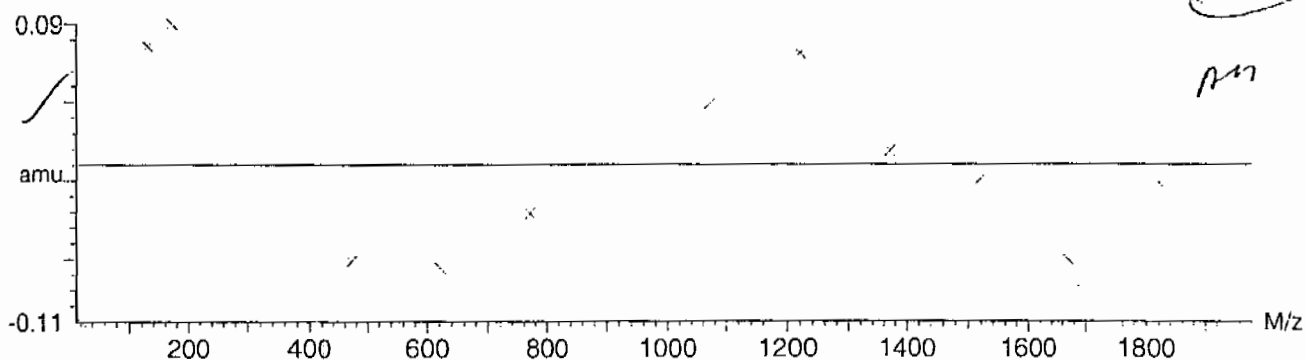


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



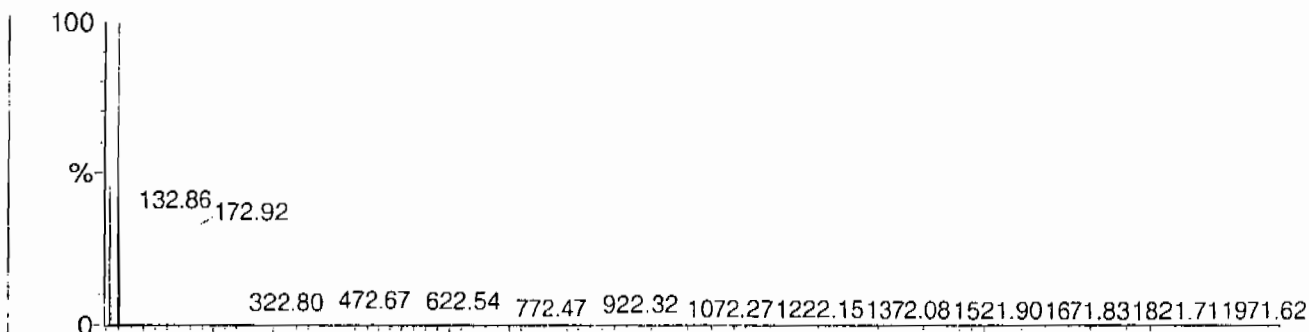
Calibration Report - MS2 Scanning

Page 1 of 1

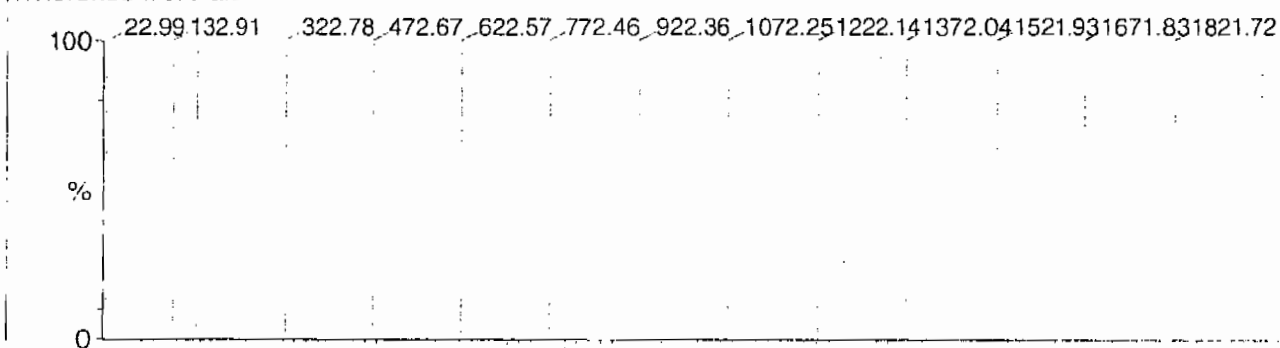
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

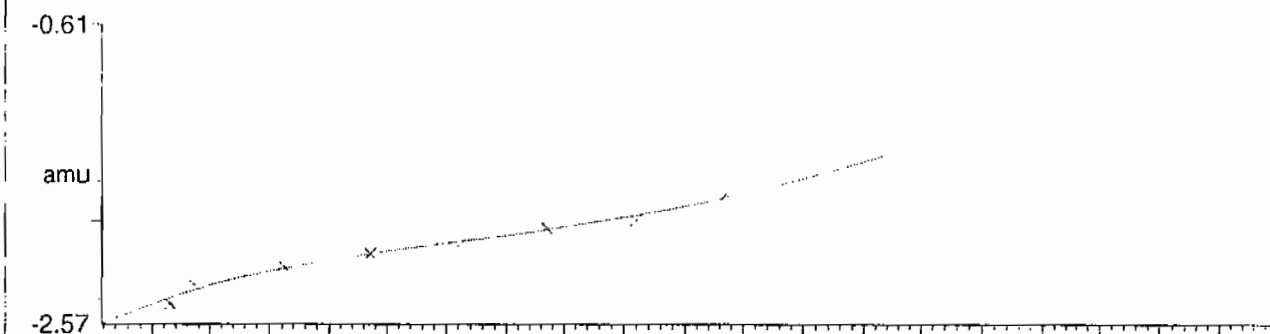
14 matches of 15 tested references



Reference file: Naics2

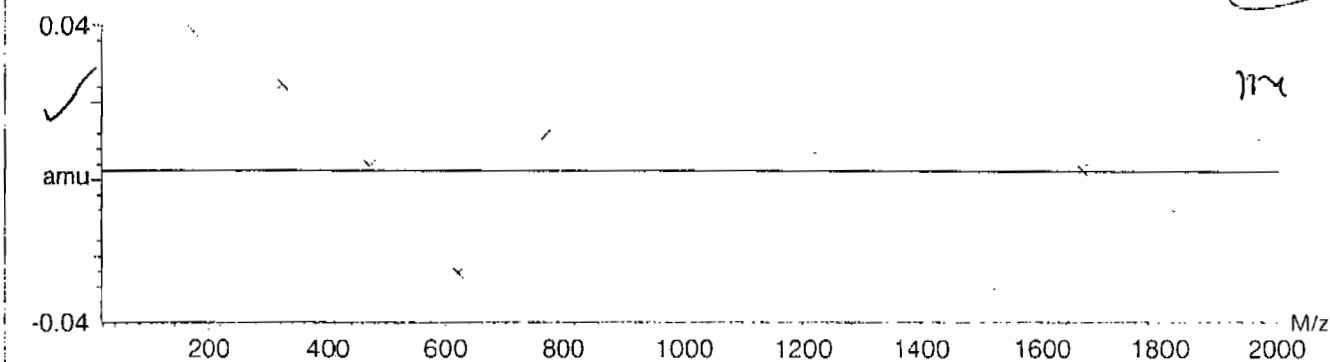


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



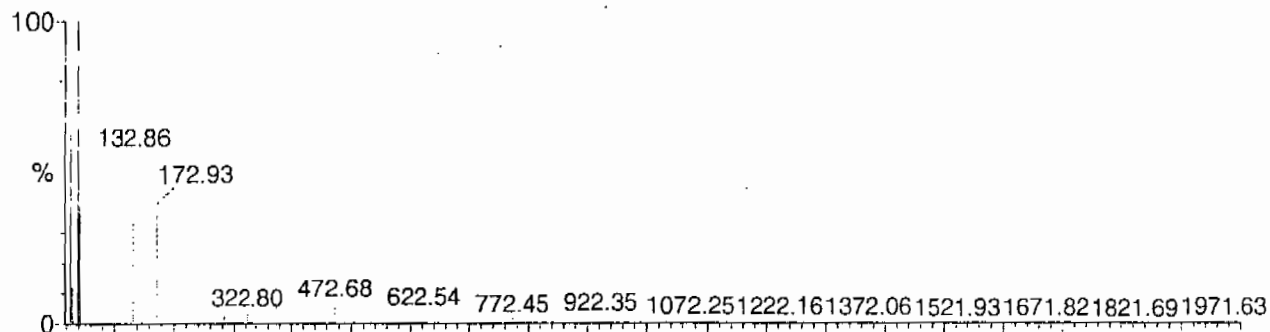
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

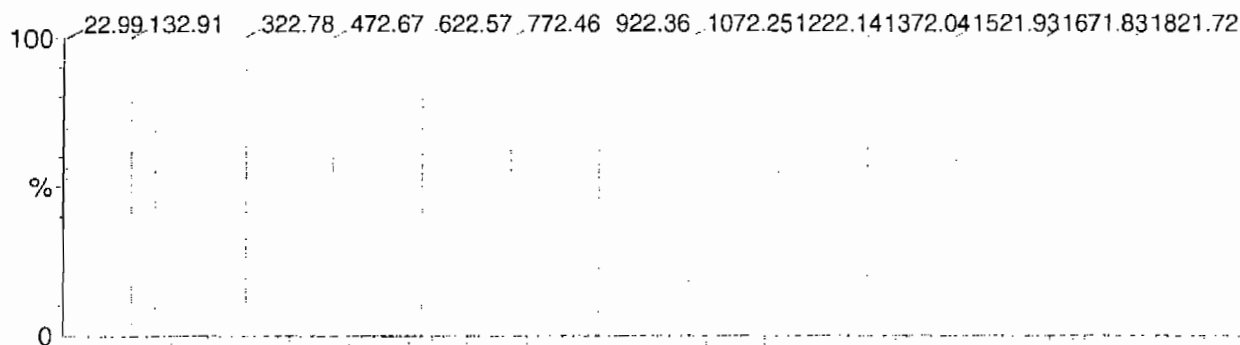
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

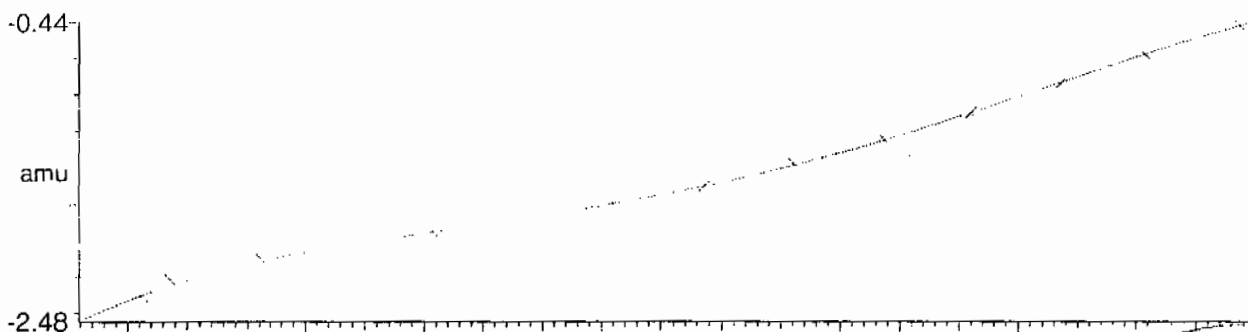
14 matches of 15 tested references



Reference file: Naics2

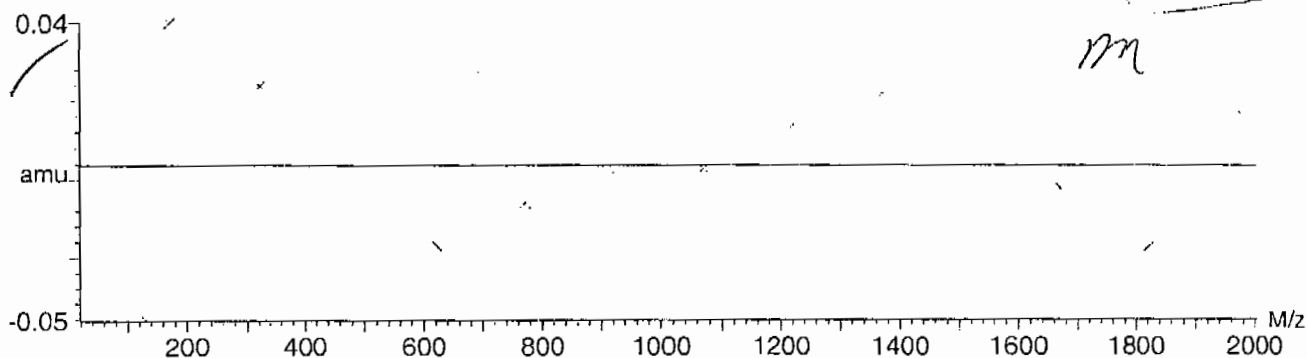


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

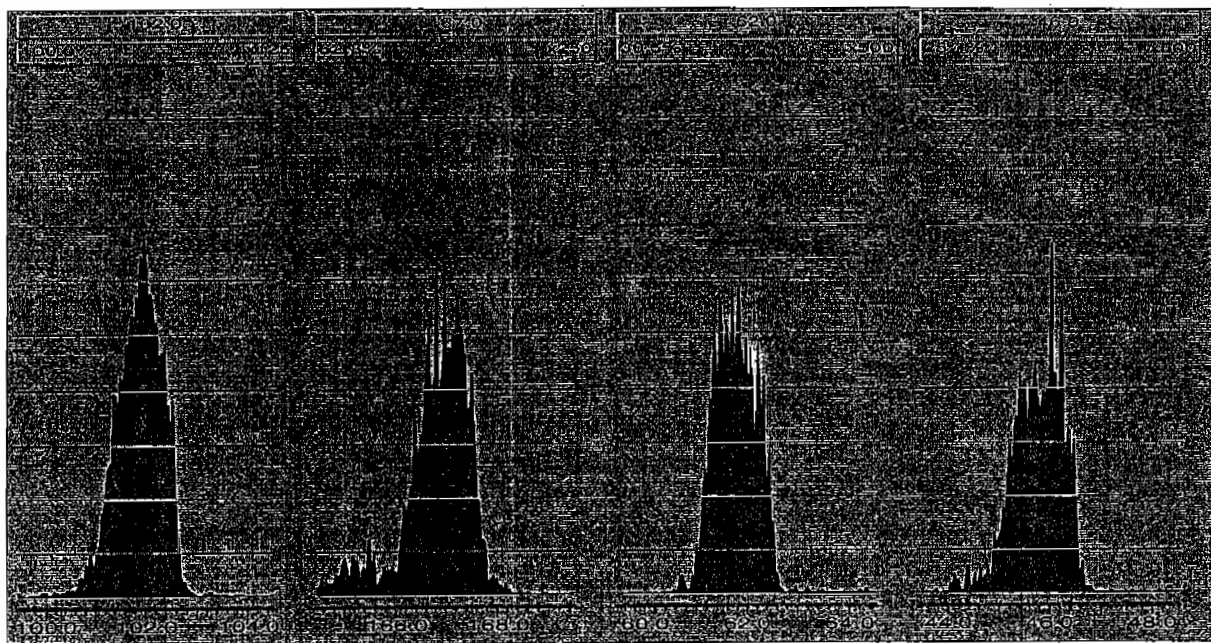


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQ\UDB\explosives04.IPR

Printed : Tue Mar 23 09:07:10 2010

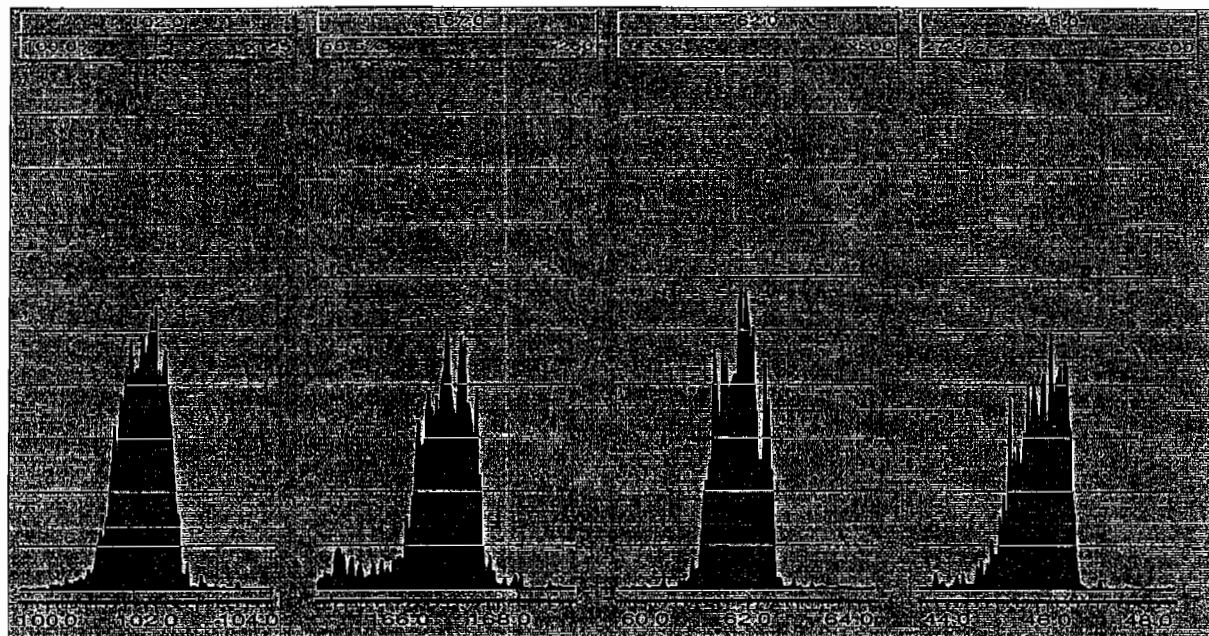


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Fri Mar 26 14:42:16 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			5504.273	12.072	34430.583	17.449
Upper Limit			7155.5549	12.572	44759.7579	17.949
Lower Limit			3852.9911	11.572	24101.4081	16.949
MB for batch 958637	24-mar-10 09:14	EXP0323050a	6876.4	12.067	39172.2	17.422
LCS for batch 958637	24-mar-10 09:43	EXP0323051a	6769.26	12.067	41666.9	17.423
RE36-10-7405	24-mar-10 15:37	EXP0323063a	6359.64	12.068	37329.7	17.42
RE36-10-7405(248197001MS)	24-mar-10 16:07	EXP0323064a	6989.98	12.067	40621.7	17.419
RE36-10-7406	24-mar-10 17:35	EXP0323067a	6175.72	12.033	41339.8	17.423
RE36-10-7404	24-mar-10 18:05	EXP0323068a	6834.71	12.033	40000	17.42
RE36-10-7516	24-mar-10 18:34	EXP0323069a	6583.54	12.065	37219.6	17.411
RE36-10-7426	24-mar-10 19:04	EXP0323070a	6802.24	12.033	39434.4	17.419
RE36-10-7432	24-mar-10 19:33	EXP0323071a	6554.76	12.068	42558.9	17.442
RE36-10-7431	24-mar-10 20:03	EXP0323072a	6999.67	12.065	39311.2	17.412
RE36-10-7434	24-mar-10 22:01	EXP0323076a	6292.98	12.067	38318.8	17.422
RE36-10-7425	24-mar-10 22:30	EXP0323077a	6304.79	12.067	40390.7	17.423
RE36-10-7429	24-mar-10 23:00	EXP0323078a	6046.9	12.068	41960.9	17.42
RE36-10-7433	24-mar-10 23:29	EXP0323079a	6040.19	12.067	38211.1	17.423

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			6117.39	12.04	36710.15	17.586
Upper Limit			7952.607	12.54	47723.195	18.086
Lower Limit			4282.173	11.54	25697.105	17.086
RE36-10-7403	27-mar-10 18:44	EXP0326058a	6588.1	12.035	36547.7	17.552
RE36-10-7405(248197001MSD)	27-mar-10 19:14	EXP0326059a	6476.67	12.033	37415.4	17.555

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323063a

Date Analyzed: 24-MAR-10 15:37

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

Printed: Thu Mar 25 10:04:08 2010, Page 27 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0323063a

Date: 24-Mar-2010

Time: 15:37:45

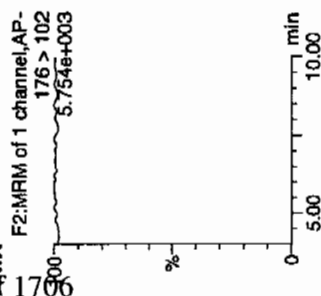
ID: 248197001

Val: 2:6,C

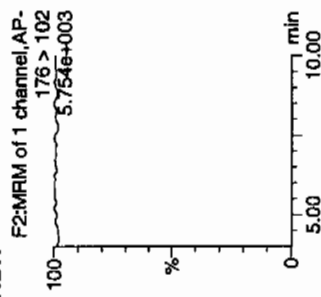
14.77
3/25/10

14.77
3/25/10
21

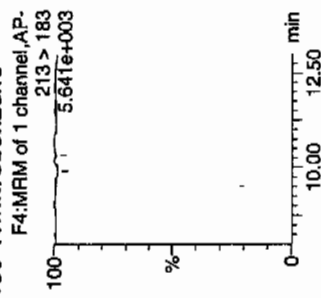
BMX



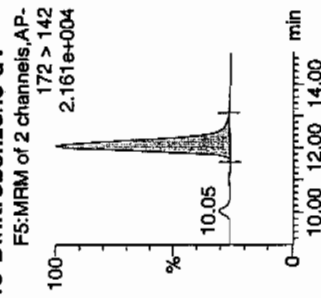
RDX



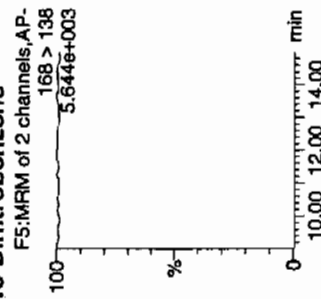
135-Trinitrobenzene



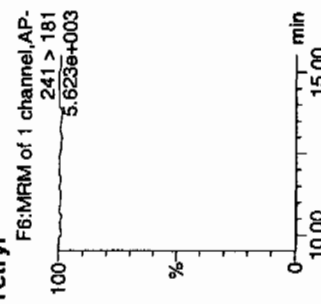
13-Dinitrobenzene-d4



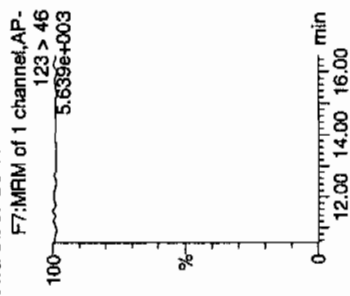
13-Dinitrobenzene



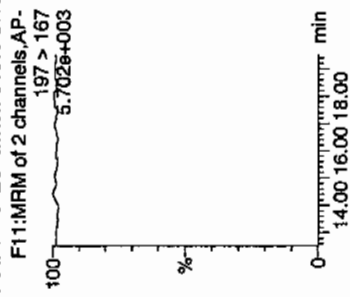
Tetryl



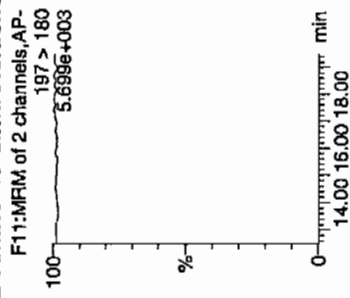
Nitrobenzene



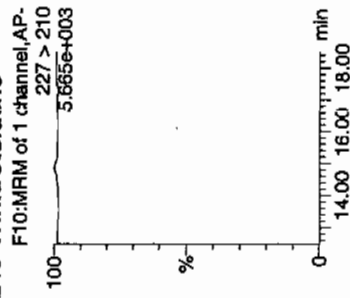
4-Amino-26-dinitrotoluene



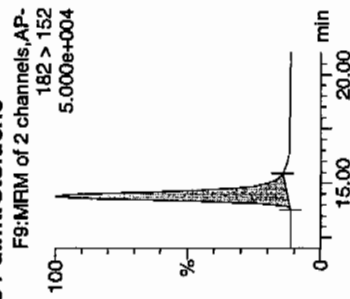
2-Amino-46-dinitrotoluene



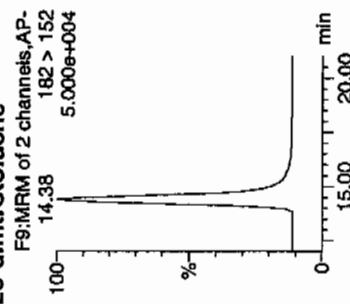
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



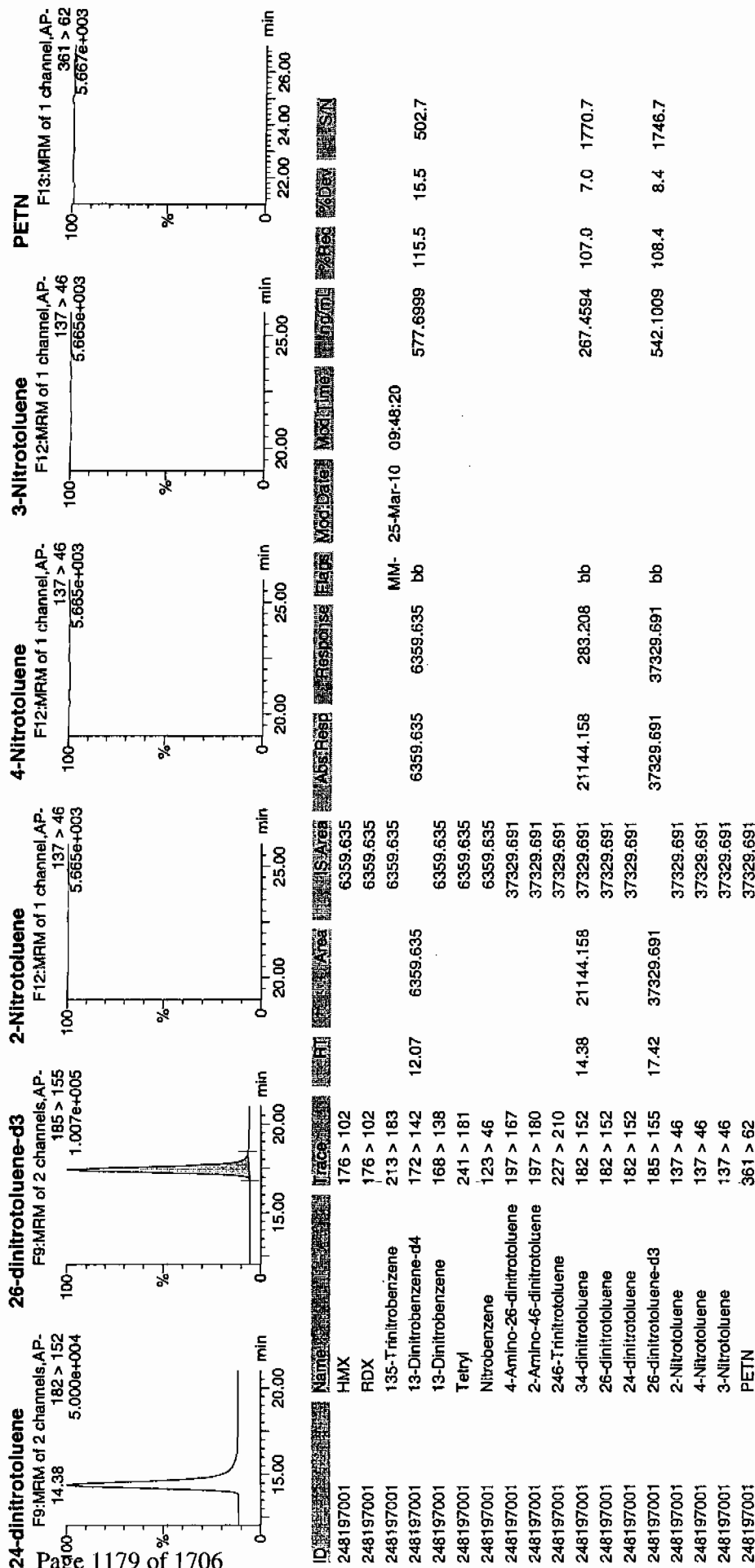
4.77
03/25/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Thu Mar 25 10:04:08 2010, Page 28 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197001

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160158.wiff

Date Analyzed: 18-MAR-10 01:23

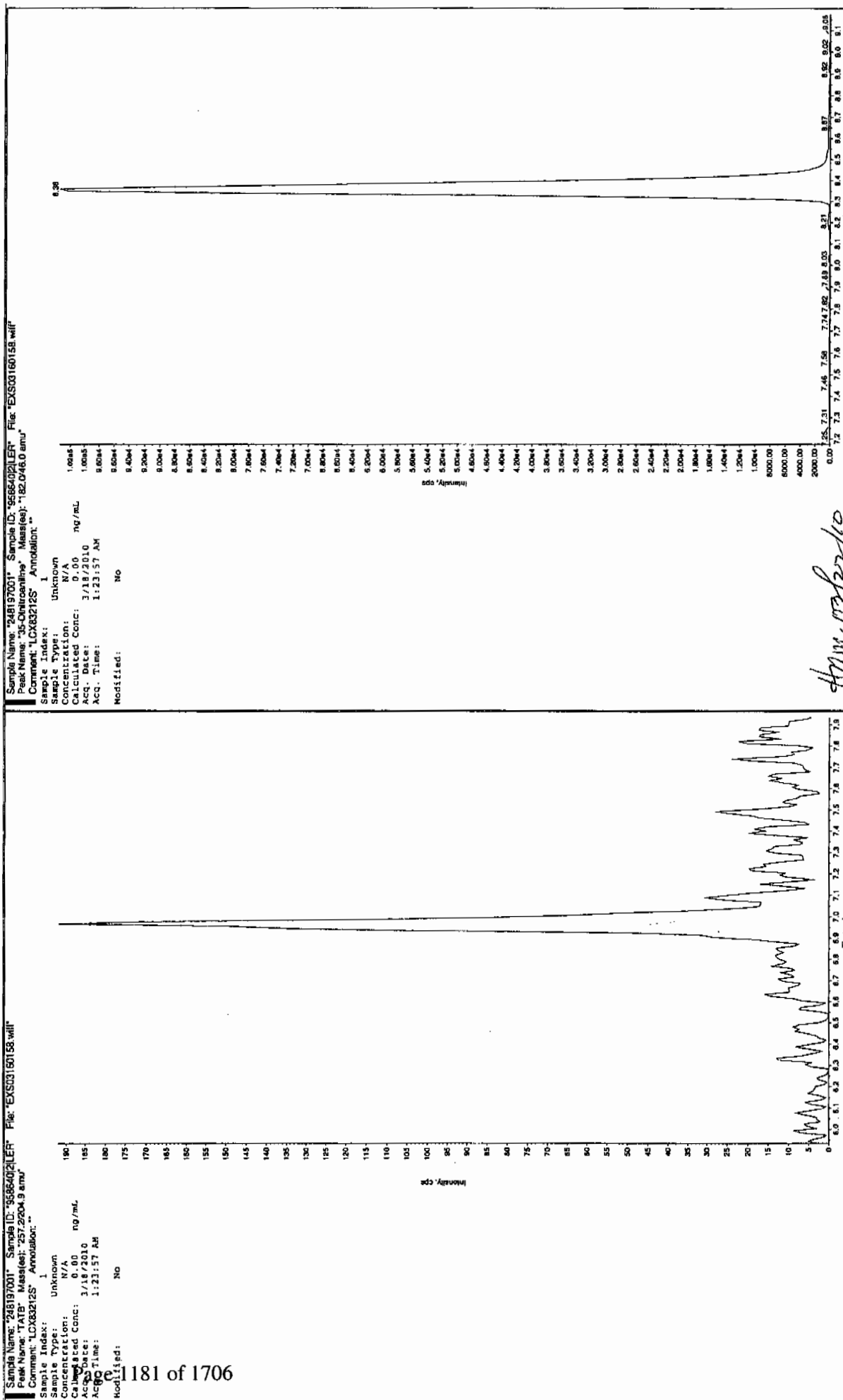
Units: ug/kg

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

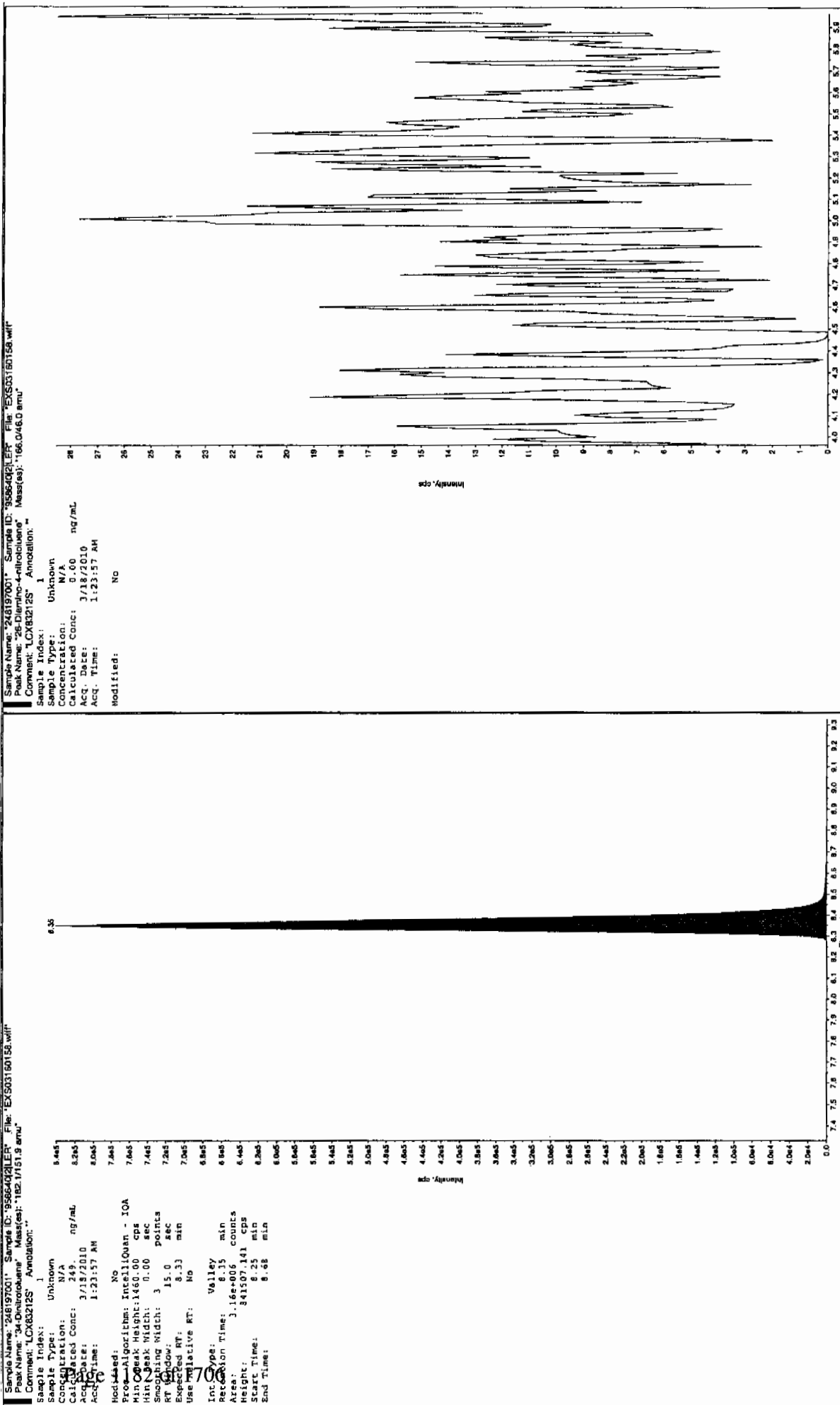
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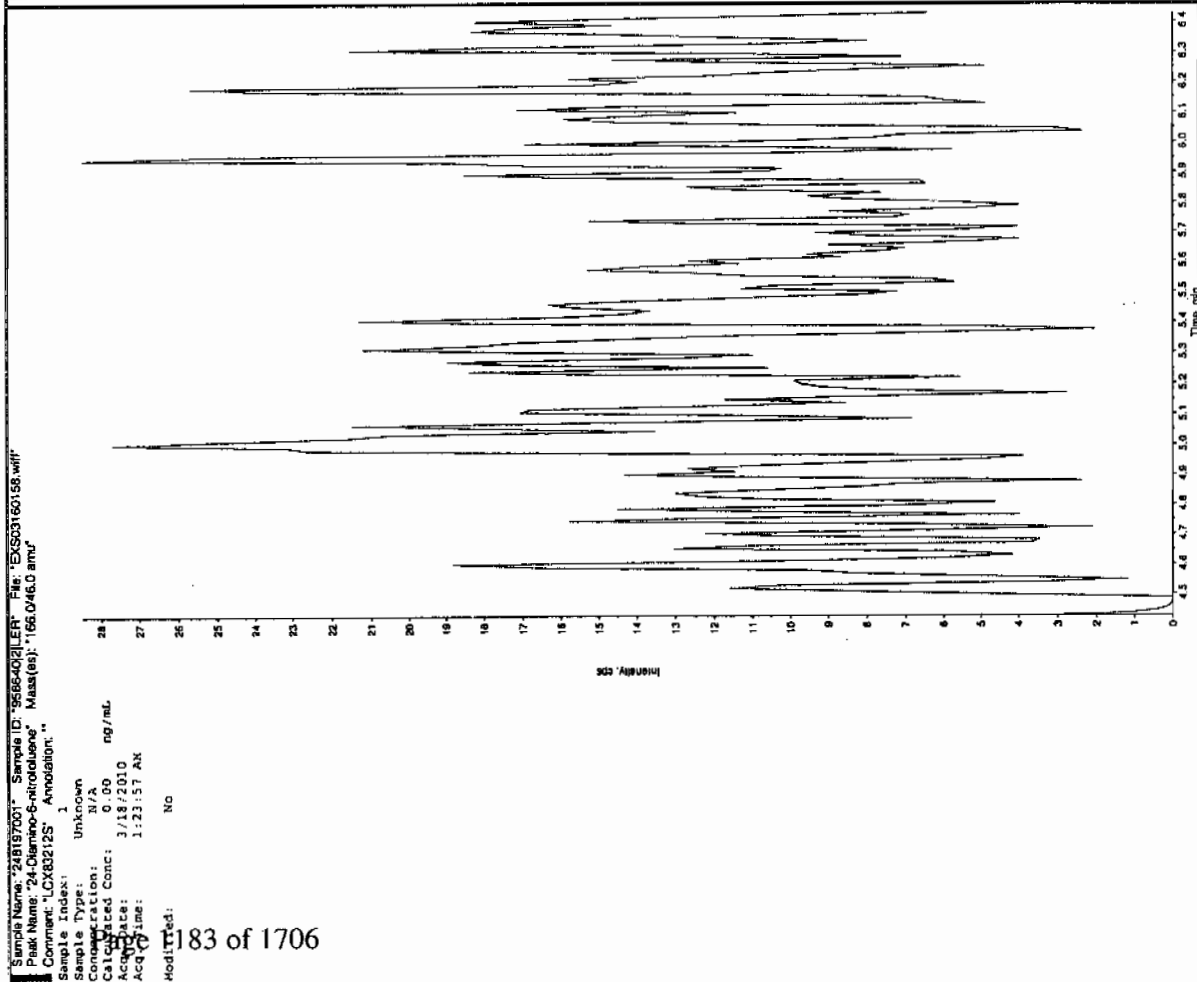
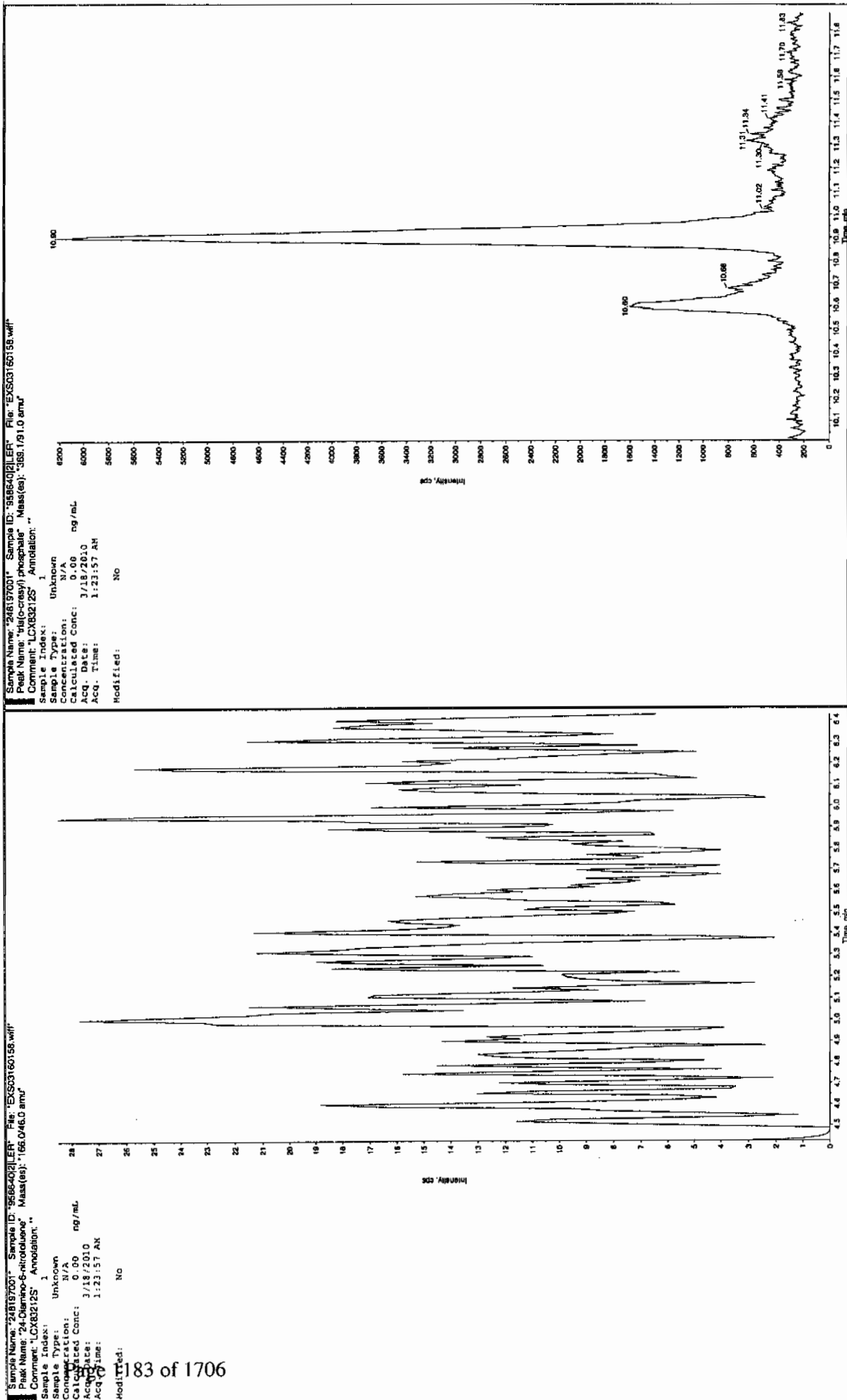
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

San 3/10



San 3/10





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Moisture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0326058a

Date Analyzed: 27-MAR-10 18:44

Units: ug/kg

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

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

Printed: Sun Mar 28 12:56:46 2010, Page 29 of 87

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326058a

Date: 27-Mar-2010

Time: 18:44:53

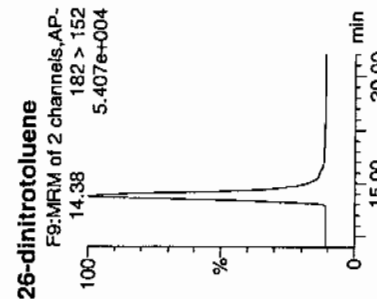
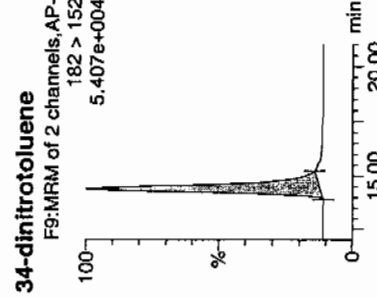
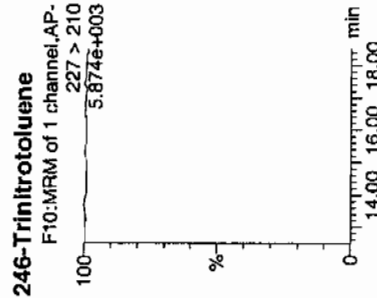
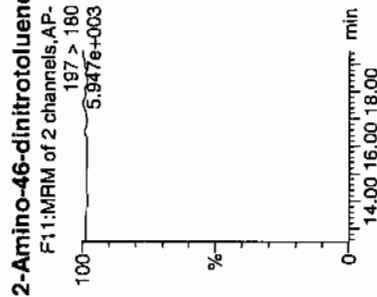
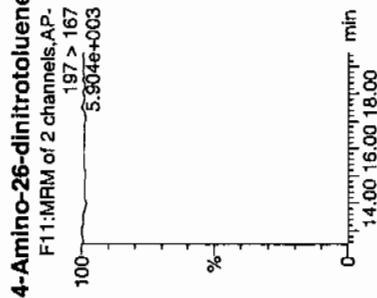
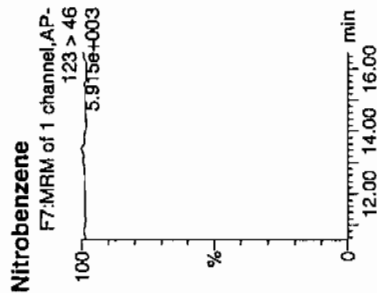
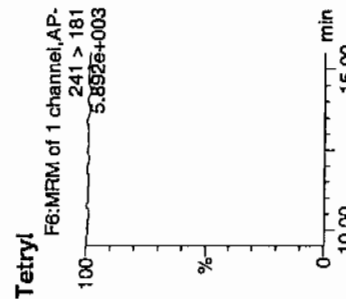
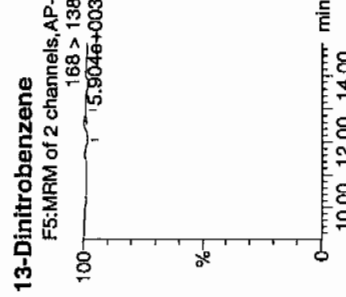
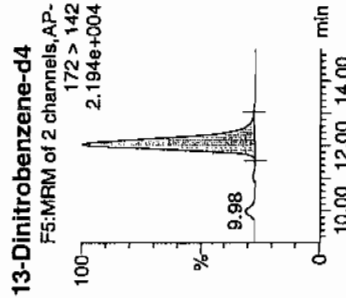
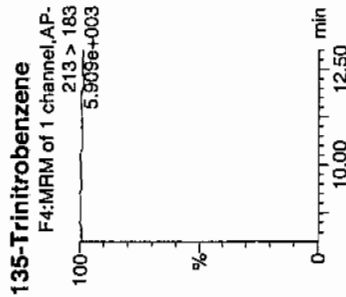
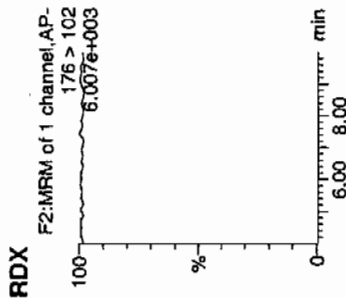
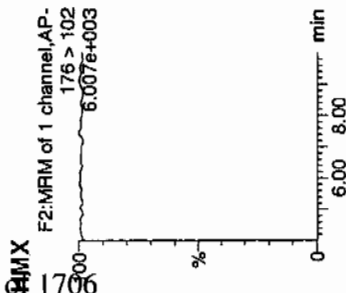
ID: 248197002

Mail: 1:4,E

1477
3/29/10

1958640 | 21

AMX



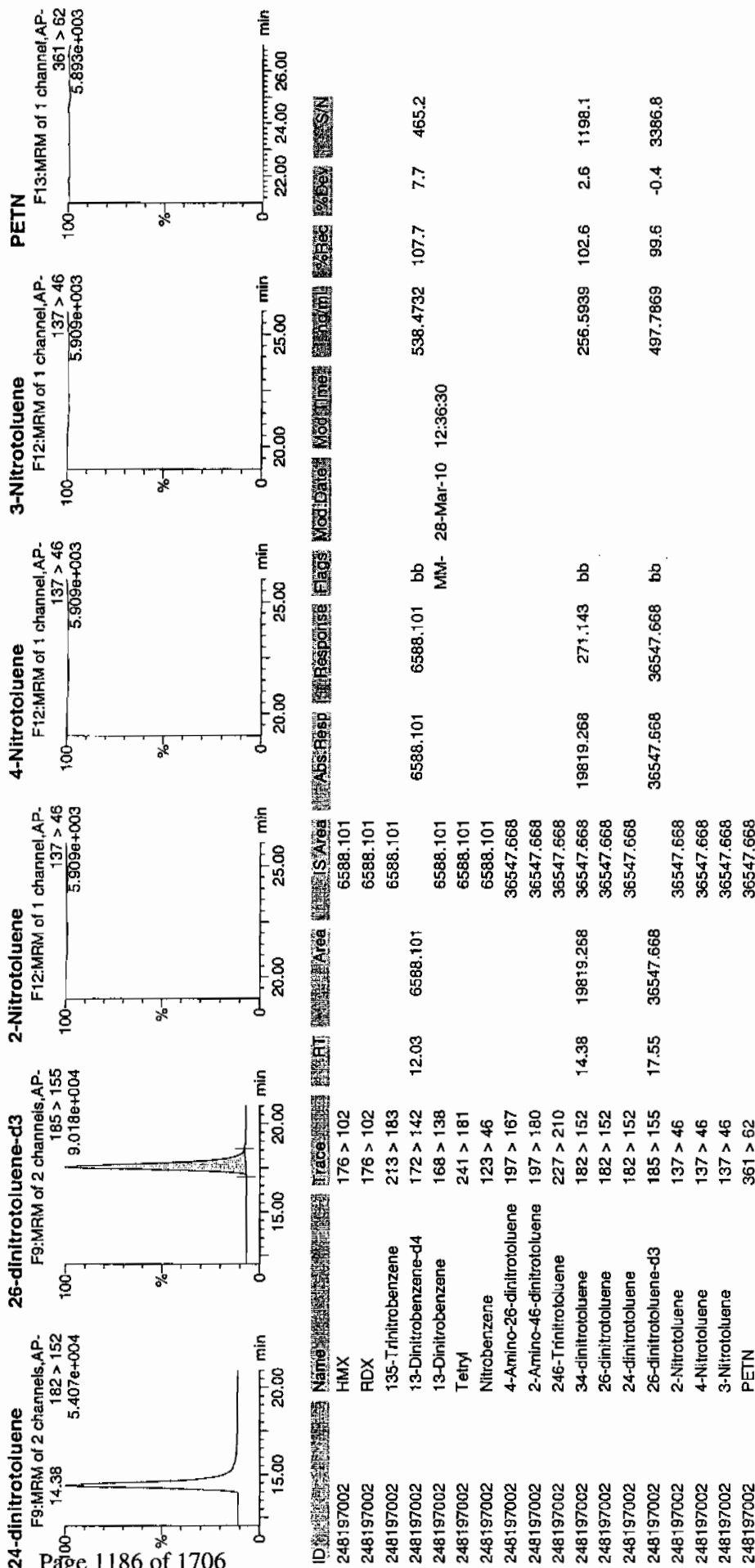
HW
03/30/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 28 12:56:46 2010, Page 30 of 87

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010



ID	Name	Area	Height	Area Ratio	Height Ratio	Area Ratio Error	Height Ratio Error
248197002	HMx	176 > 102					
248197002	RDX	176 > 102					
248197002	135-Trinitrobenzene	213 > 183					
248197002	13-Dinitrobenzene-d4	172 > 142	12.03				
248197002	13-Dinitrobenzene	168 > 138					
248197002	Tetryl	241 > 181					
248197002	Nitrobenzene	123 > 46					
248197002	4-Amino-26-dinitrotoluene	197 > 167					
248197002	2-Amino-46-dinitrotoluene	197 > 180					
248197002	246-Trinitrotoluene	227 > 210					
248197002	34-dinitrotoluene	182 > 152	14.38				
248197002	26-dinitrotoluene	182 > 152					
248197002	24-dinitrotoluene	182 > 152					
248197002	26-dinitrotoluene-d3	185 > 155	17.55				
248197002	2-Nitrotoluene	137 > 46					
248197002	4-Nitrotoluene	137 > 46					
248197002	3-Nitrotoluene	137 > 46					
1248197002	PETN	361 > 82					

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7403

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197002

Sample Amount 2

Moisture: 14.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160161.wiff

Date Analyzed: 18-MAR-10 02:11

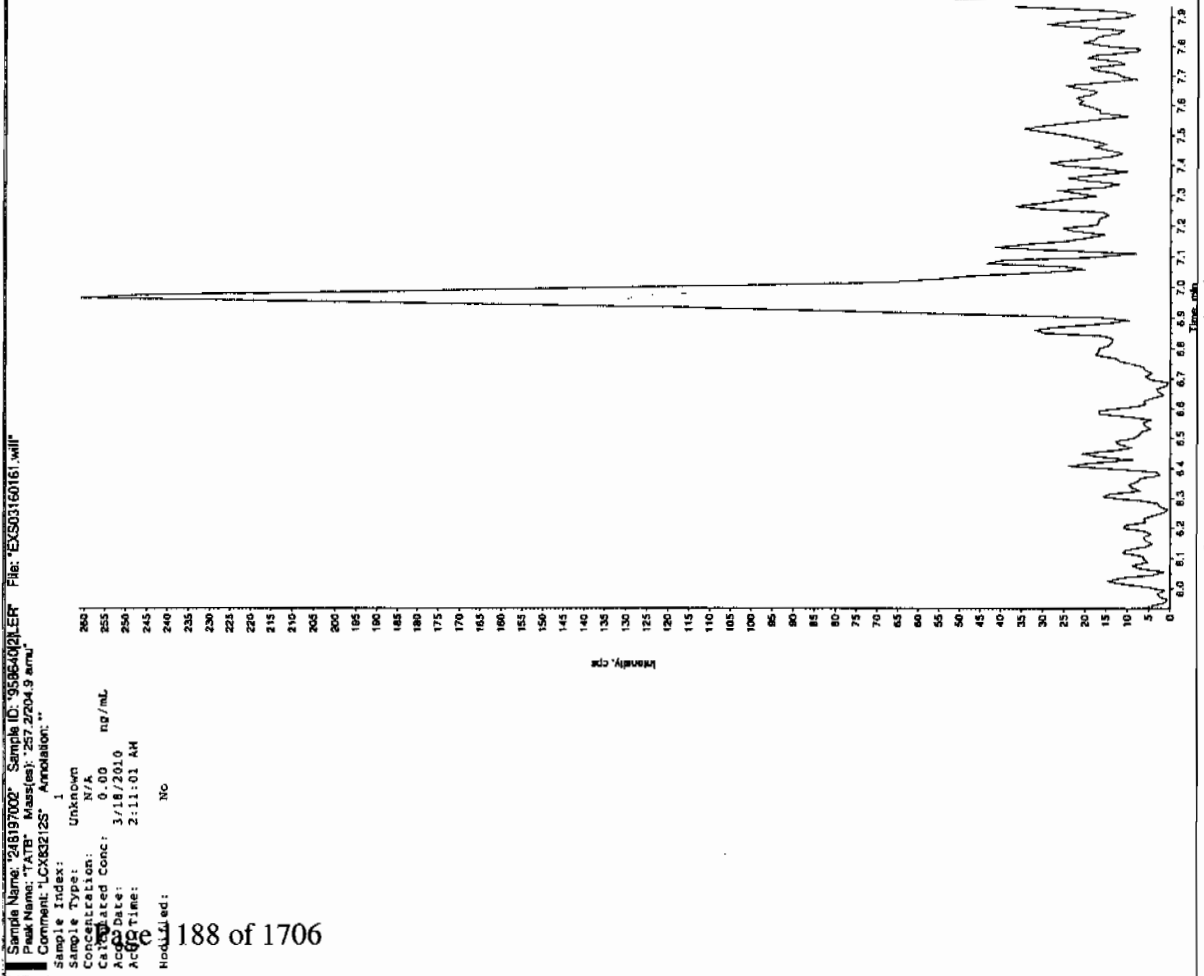
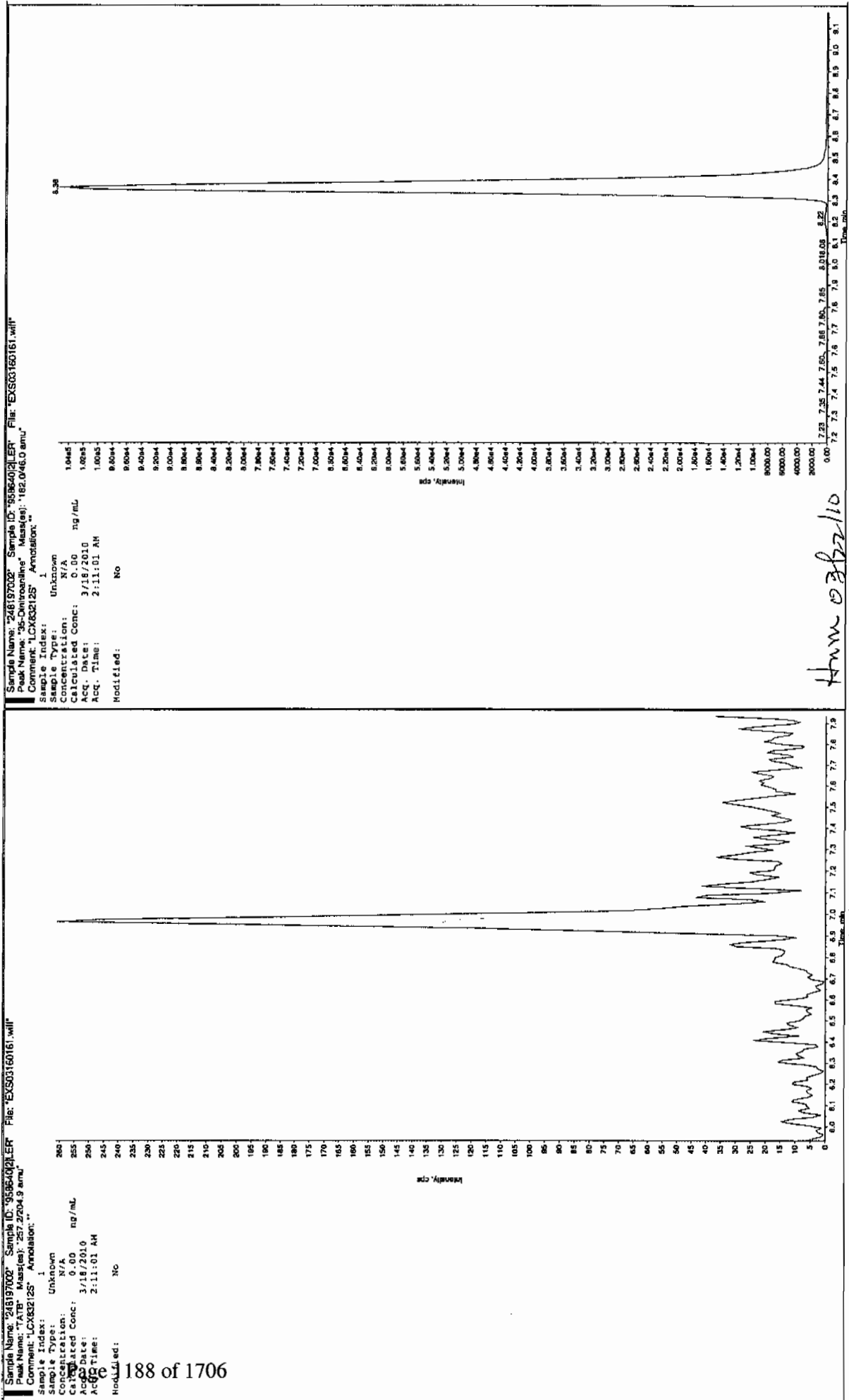
Units: ug/kg

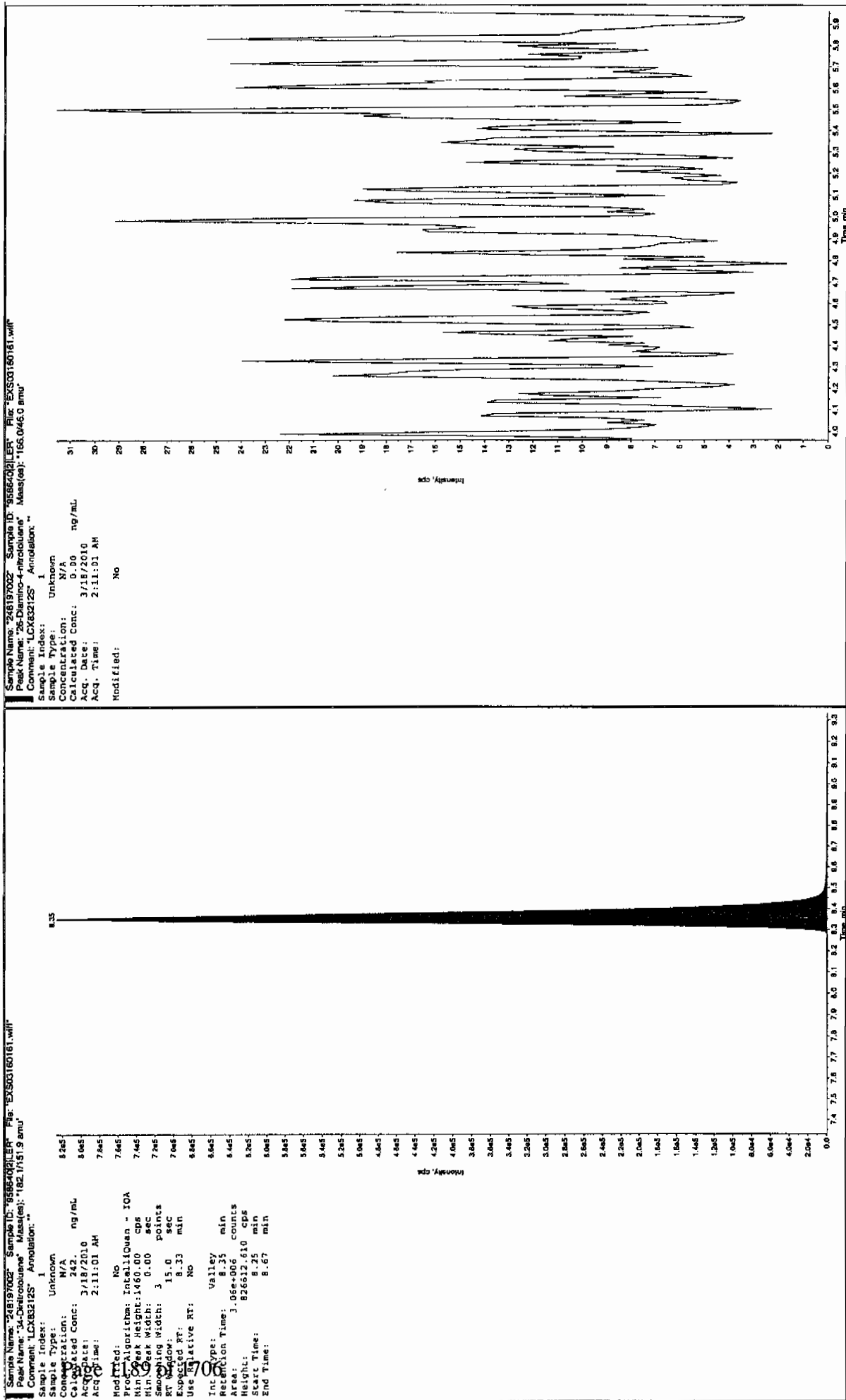
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

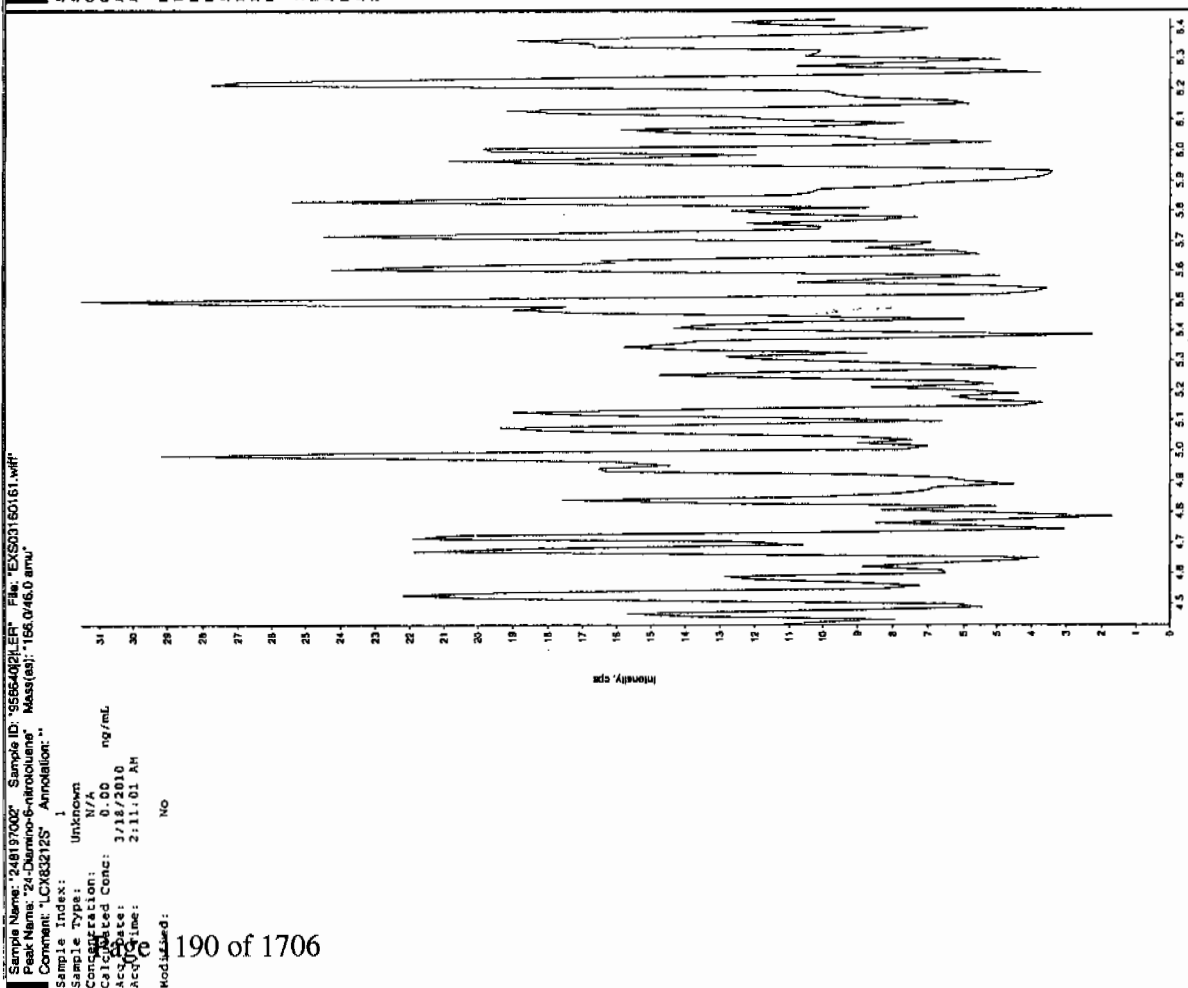
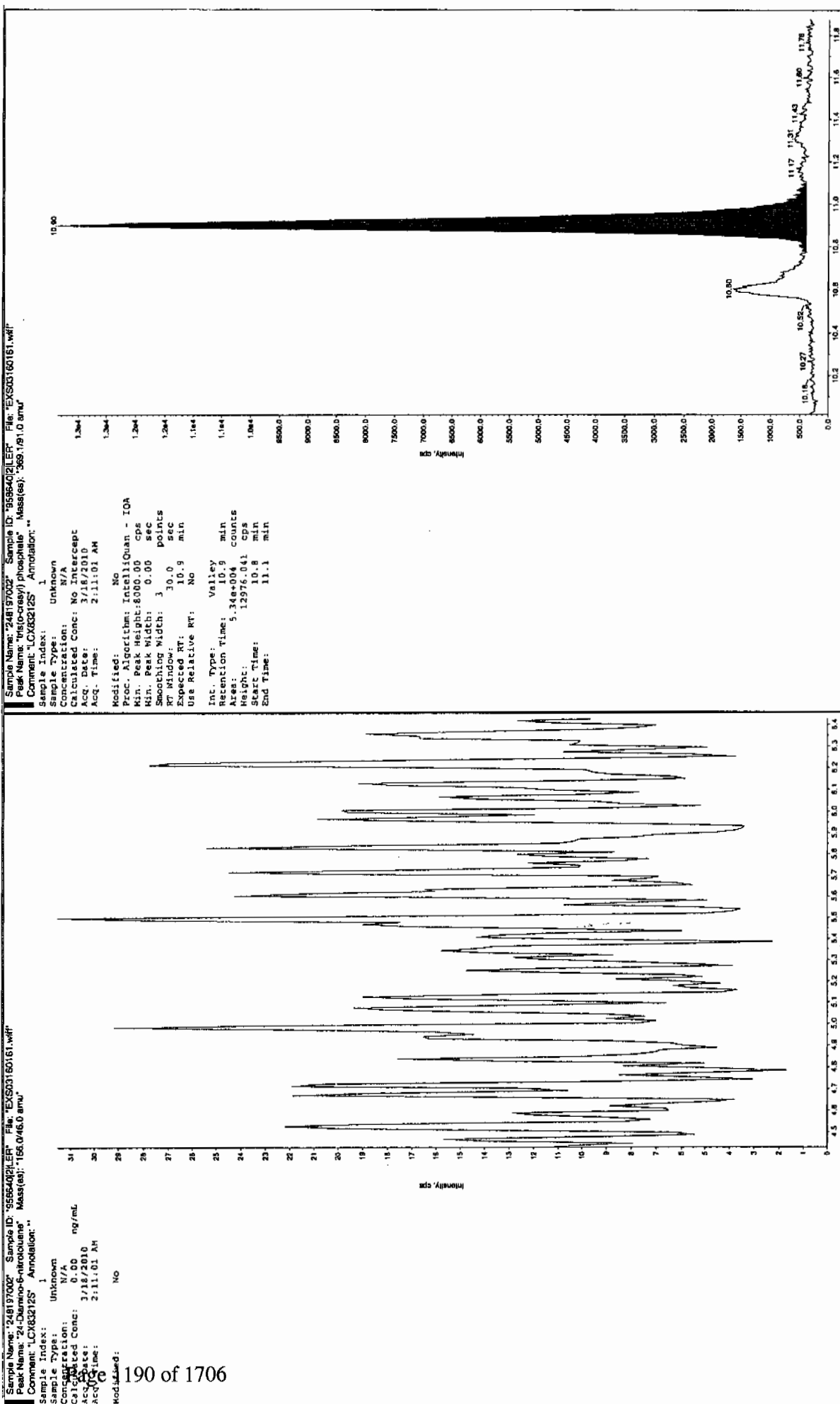
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 31/9/00





*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: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323067a

Date Analyzed: 24-MAR-10 17:35

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323067a

Date: 24-Mar-2010

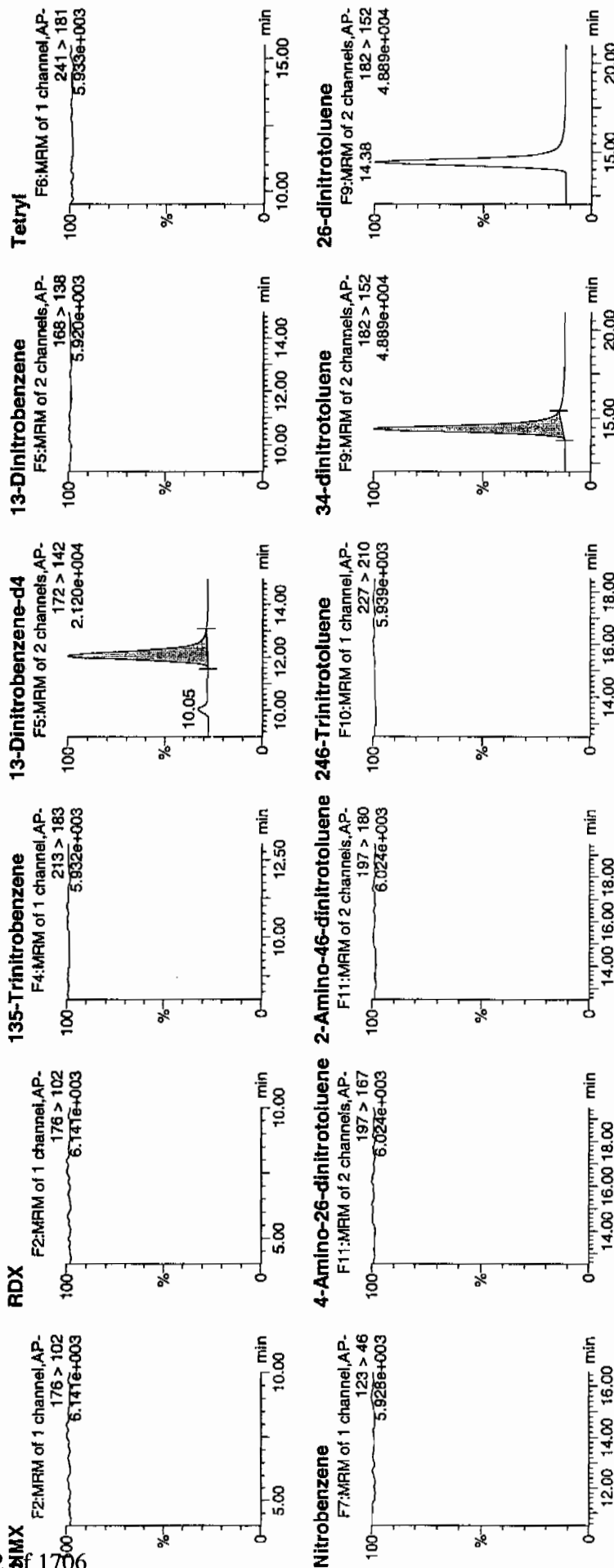
Time: 17:35:45

ID: 248197003

Vial: 2:7,A

Handwritten: 4677
3/25/10

Handwritten: 1958640 | 2-1



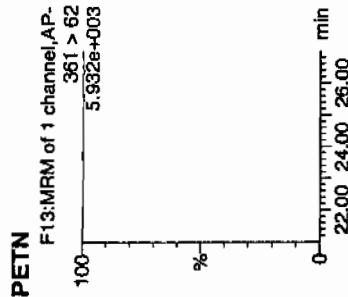
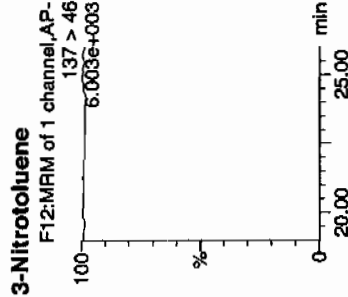
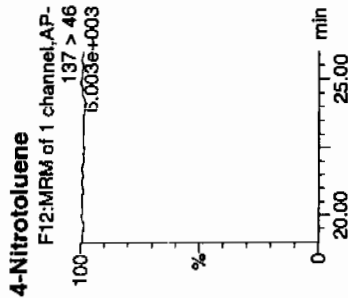
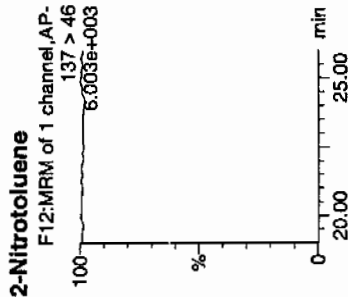
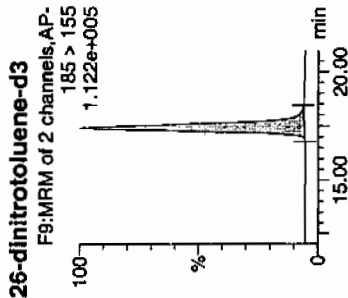
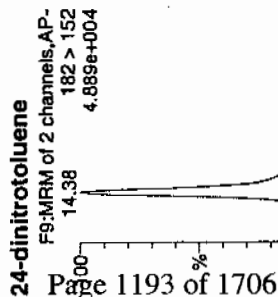
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3/25/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Thu Mar 25 10:04:08 2010, Page 36 of 79

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Area	SA Area	Abs Resp	Response	Flag	Mod Date	Mod Time	Unit	Mod	Dev	SN
248197003	HMX	176 > 102	6175.715									
248197003	RDX	176 > 102	6175.715									
248197003	135-Trinitrobenzene	213 > 183	6175.715									
248197003	13-Dinitrobenzene-d4	172 > 142	12.03	6175.715								
248197003	13-Dinitrobenzene	168 > 138	6175.715									
248197003	Tetryl	241 > 181	6175.715									
248197003	Nitrobenzene	123 > 46	6175.715									
248197003	4-Amino-26-dinitrotoluene	197 > 167	41339.832									
248197003	2-Amino-46-dinitrotoluene	197 > 180	41339.832									
248197003	246-Trinitrotoluene	227 > 210	41339.832									
248197003	34-dinitrotoluene	182 > 152	14.38	20400.598	41339.832	20400.598						
248197003	26-dinitrotoluene	182 > 152	41339.832									
248197003	24-dinitrotoluene	182 > 152	41339.832									
248197003	26-dinitrotoluene-d3	185 > 155	17.42	41339.832		41339.832						
248197003	2-Nitrotoluene	137 > 46	41339.832									
248197003	4-Nitrotoluene	137 > 46	41339.832									
248197003	3-Nitrotoluene	137 > 46	41339.832									
1248197003	PETN	361 > 62										

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7406

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197003

Sample Amount 2

Moisture: 10.4

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160162.wiff

Date Analyzed: 18-MAR-10 02:26

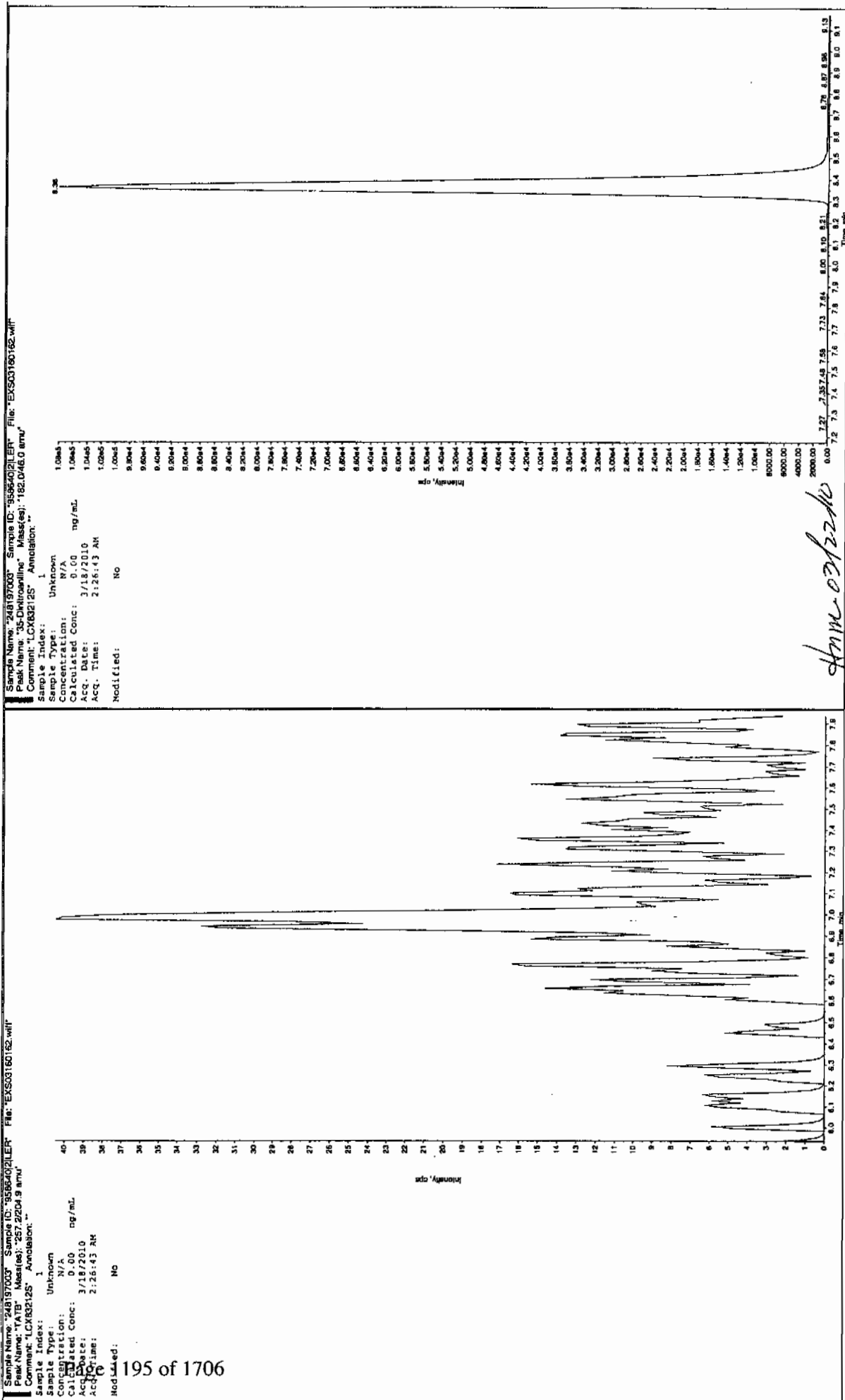
Units: ug/kg

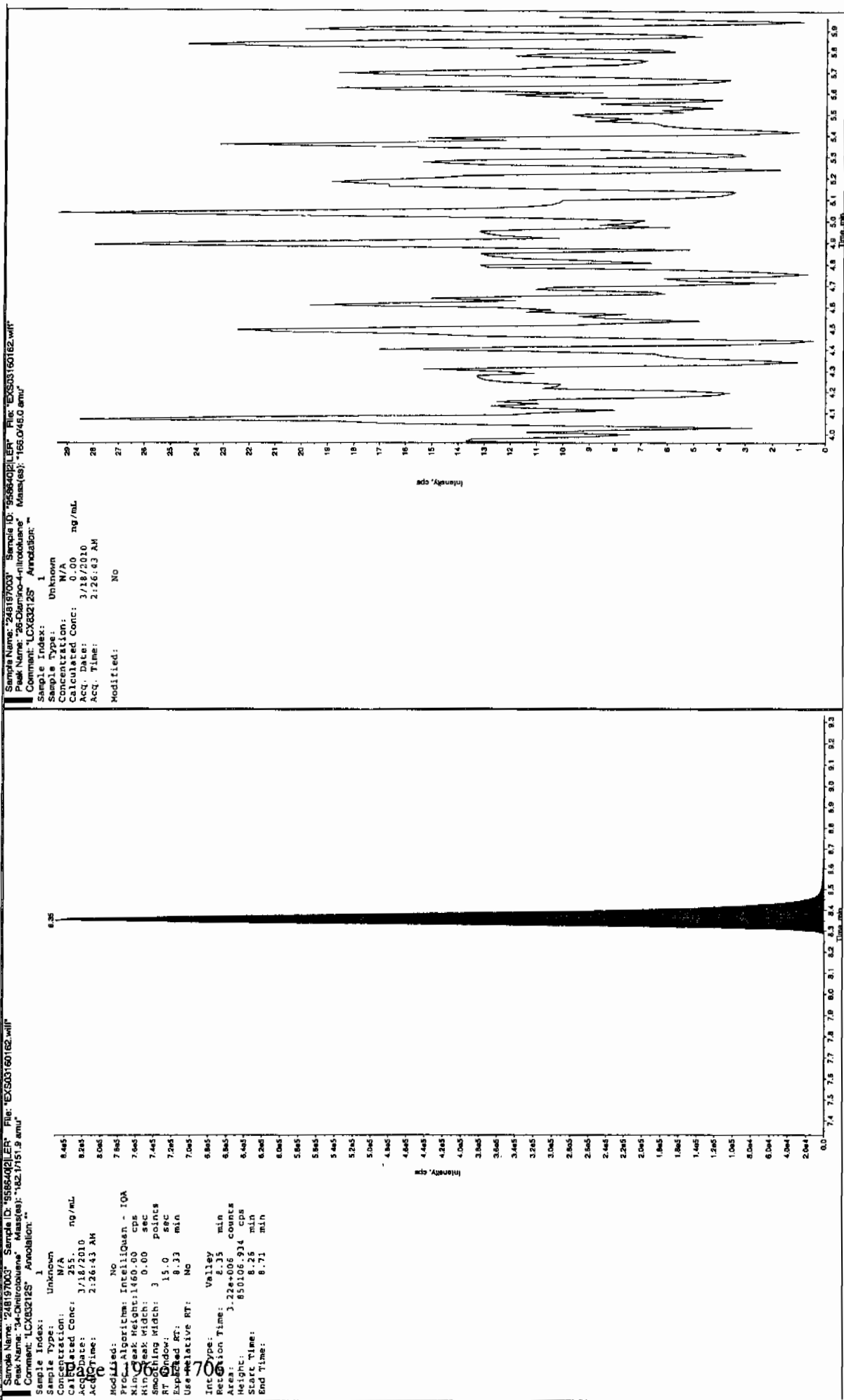
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

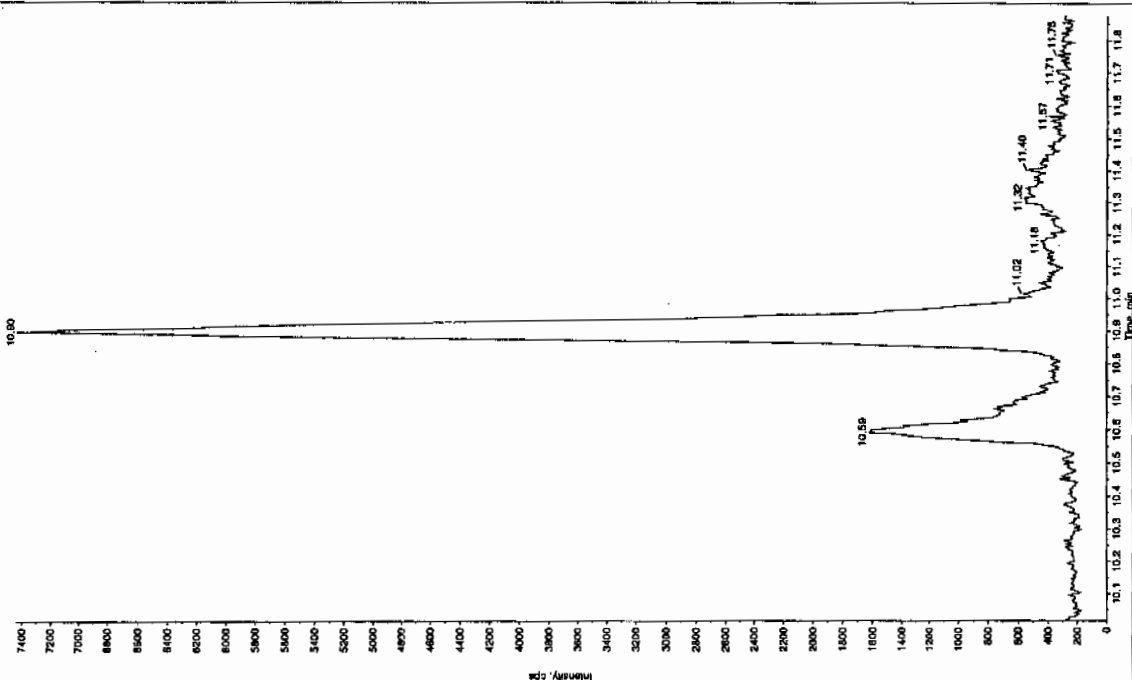
Jan 21/9/10





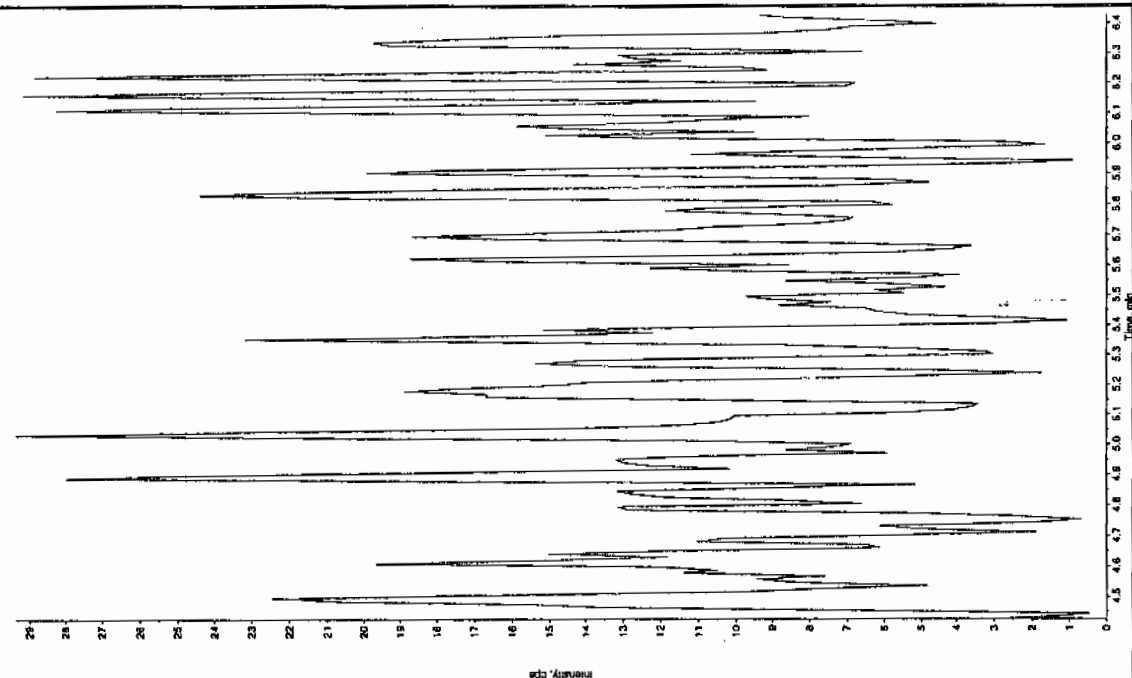
Sample Name: "248197003" Sample ID: "9586402LIER" File: "EX503160162.wif"
 Peak Name: "116(O-cresyl) phosphate" Mass(es): "353.1791.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/18/2010 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 2:28:43 AM
 Modified: No



Sample Name: "248197003" Sample ID: "9586402LIER" File: "EX503160162.wif"
 Peak Name: "24-Diamino-6-Nitrofluorene" Mass(es): "186.0463.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/18/2010 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 2:28:43 AM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323068a

Date Analyzed: 24-MAR-10 18:05

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

Printed: Thu Mar 25 10:04:08 2010, Page 37 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323068a

Date: 24-Mar-2010

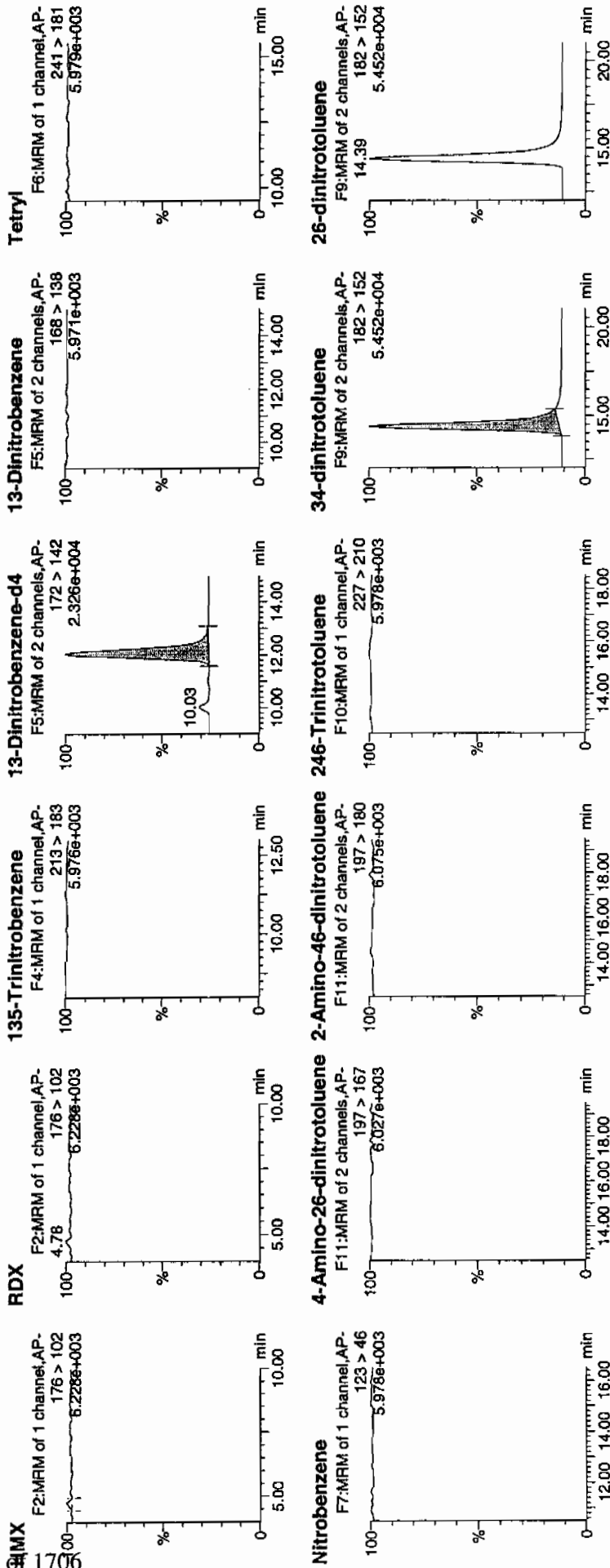
Time: 18:05:15

ID: 248197004

Vial: 2:7,B

Left
3/25/10

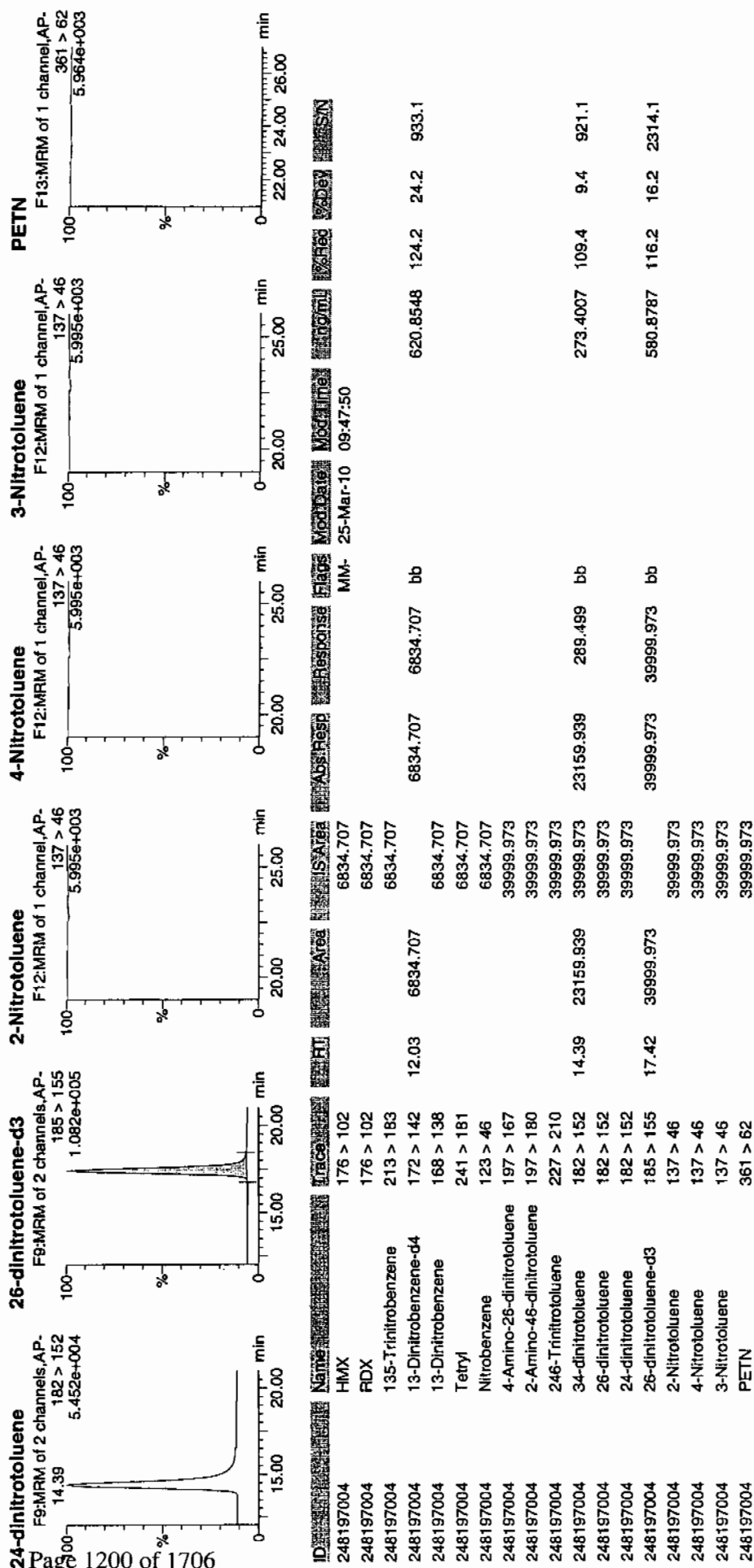
LAU 958640 / Soas 121



Handwritten signature/initials

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7404

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197004

Sample Amount 2

Moisture: 11.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160163.wiff

Date Analyzed: 18-MAR-10 02:42

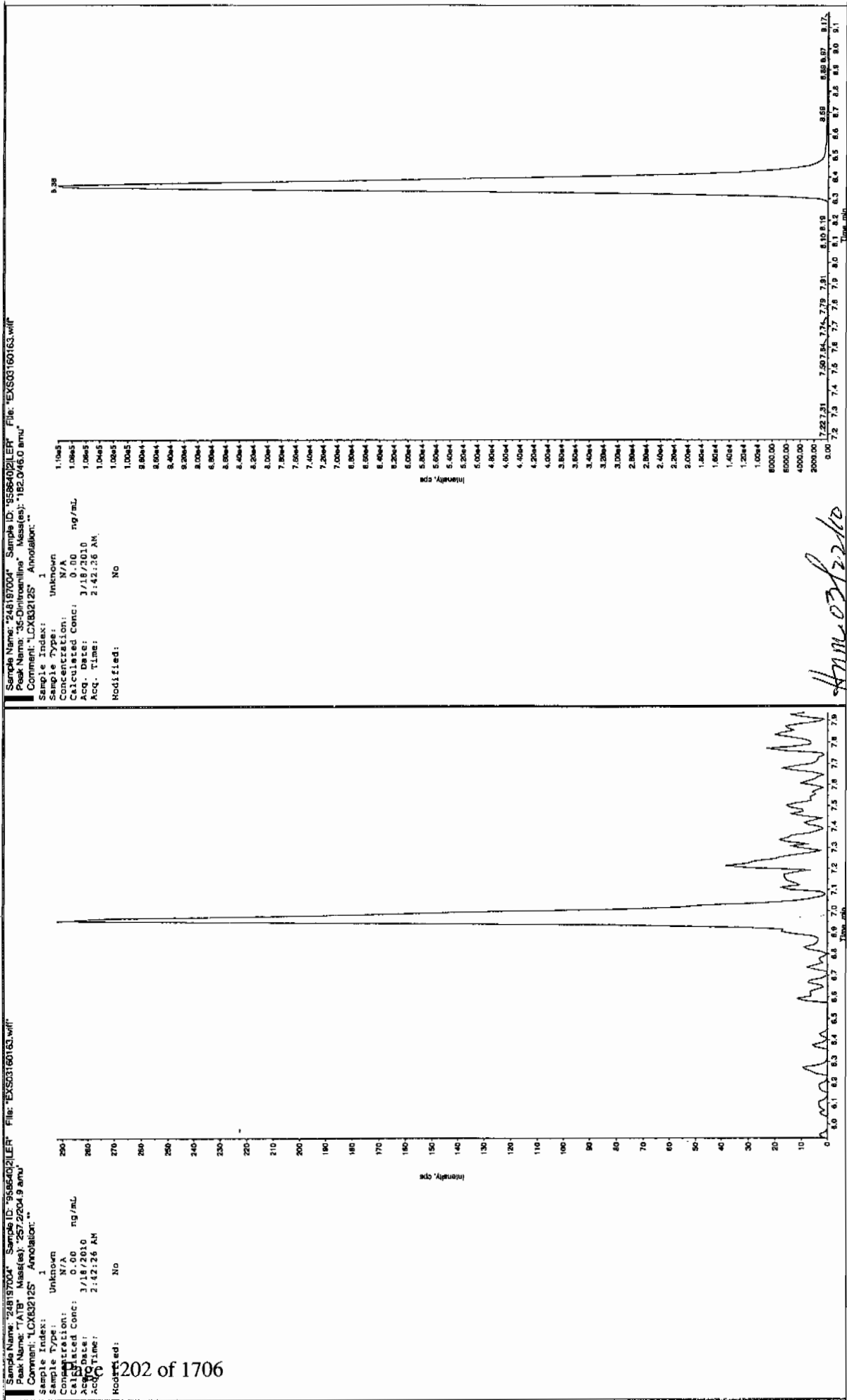
Units: ug/kg

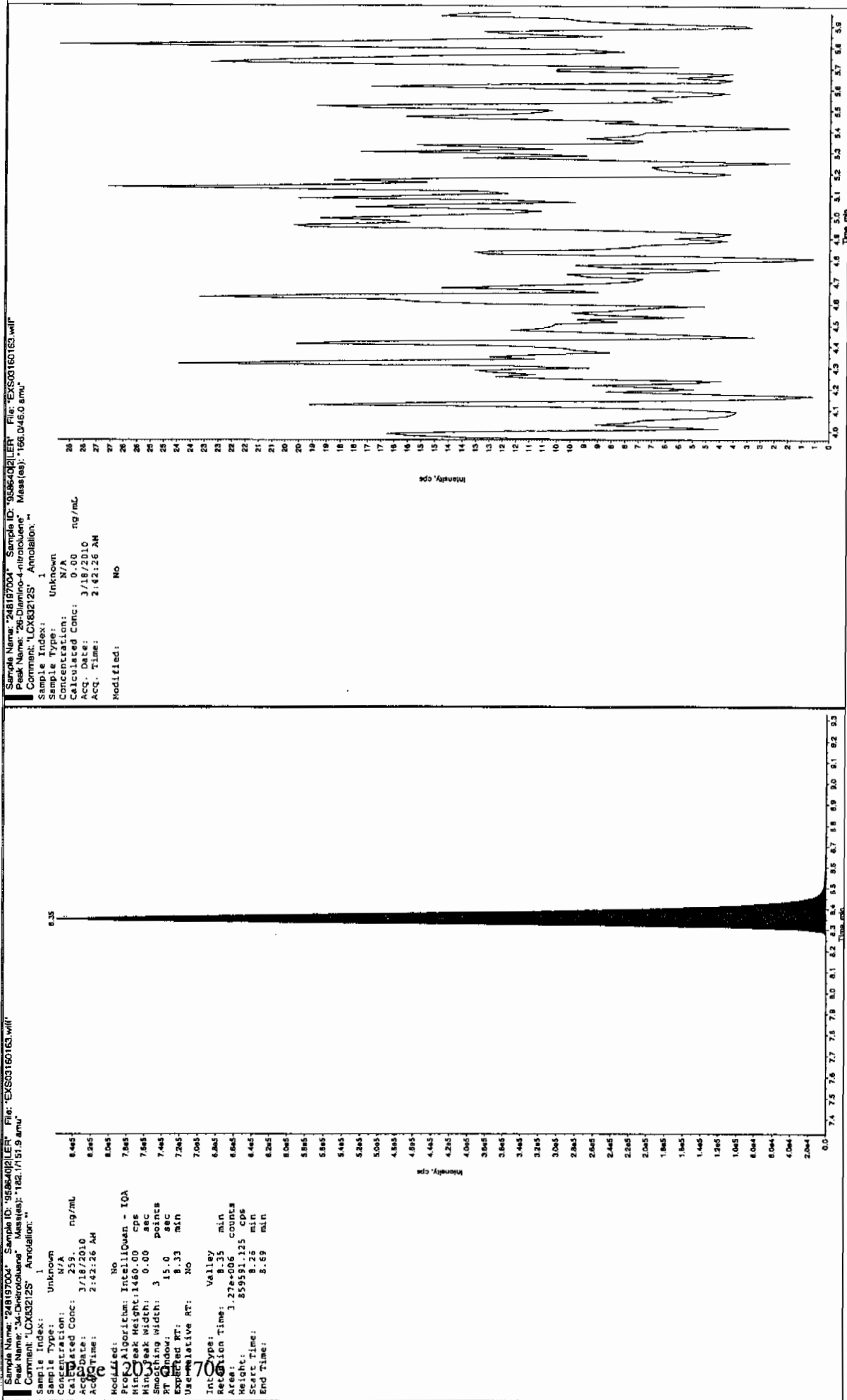
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

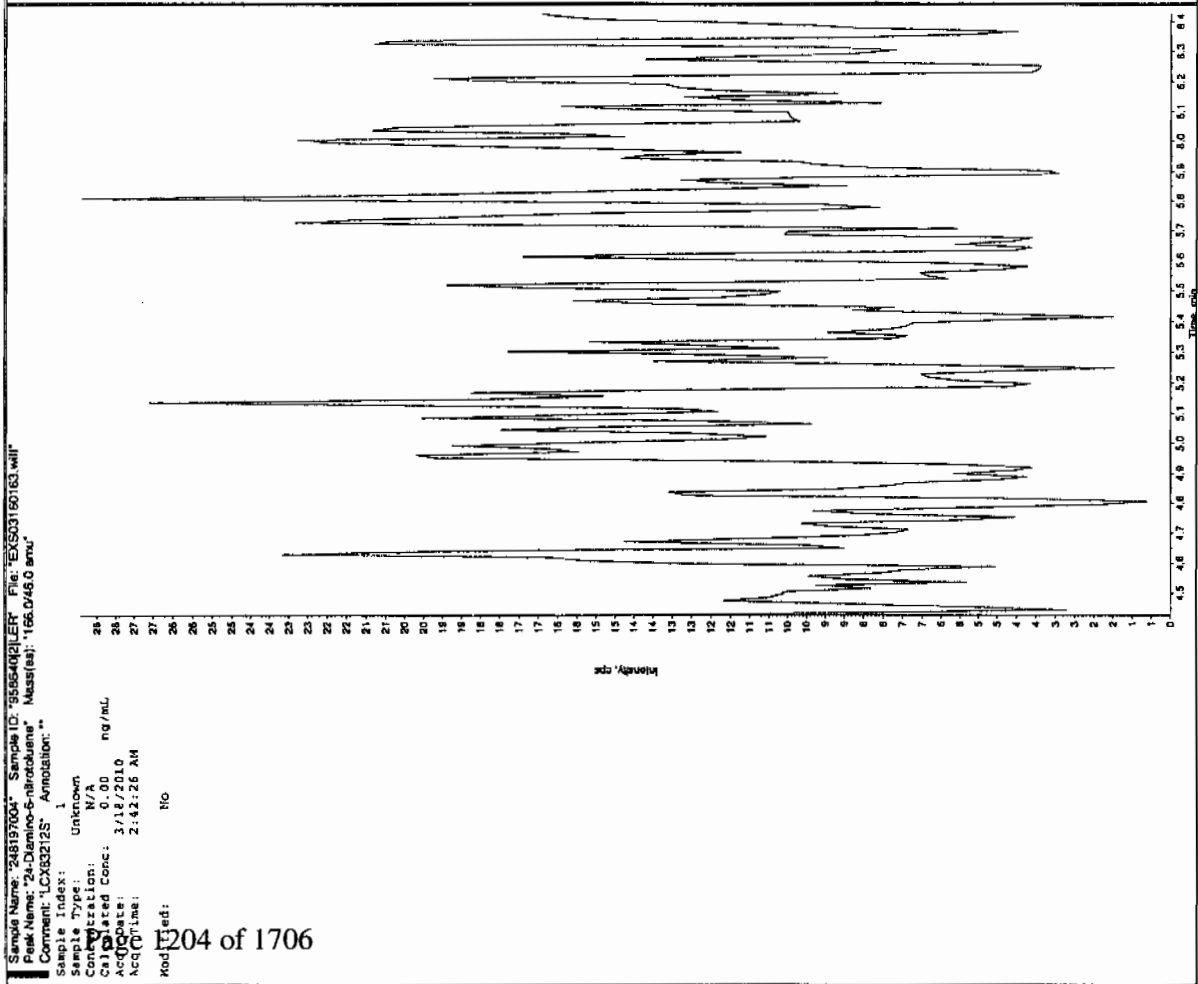
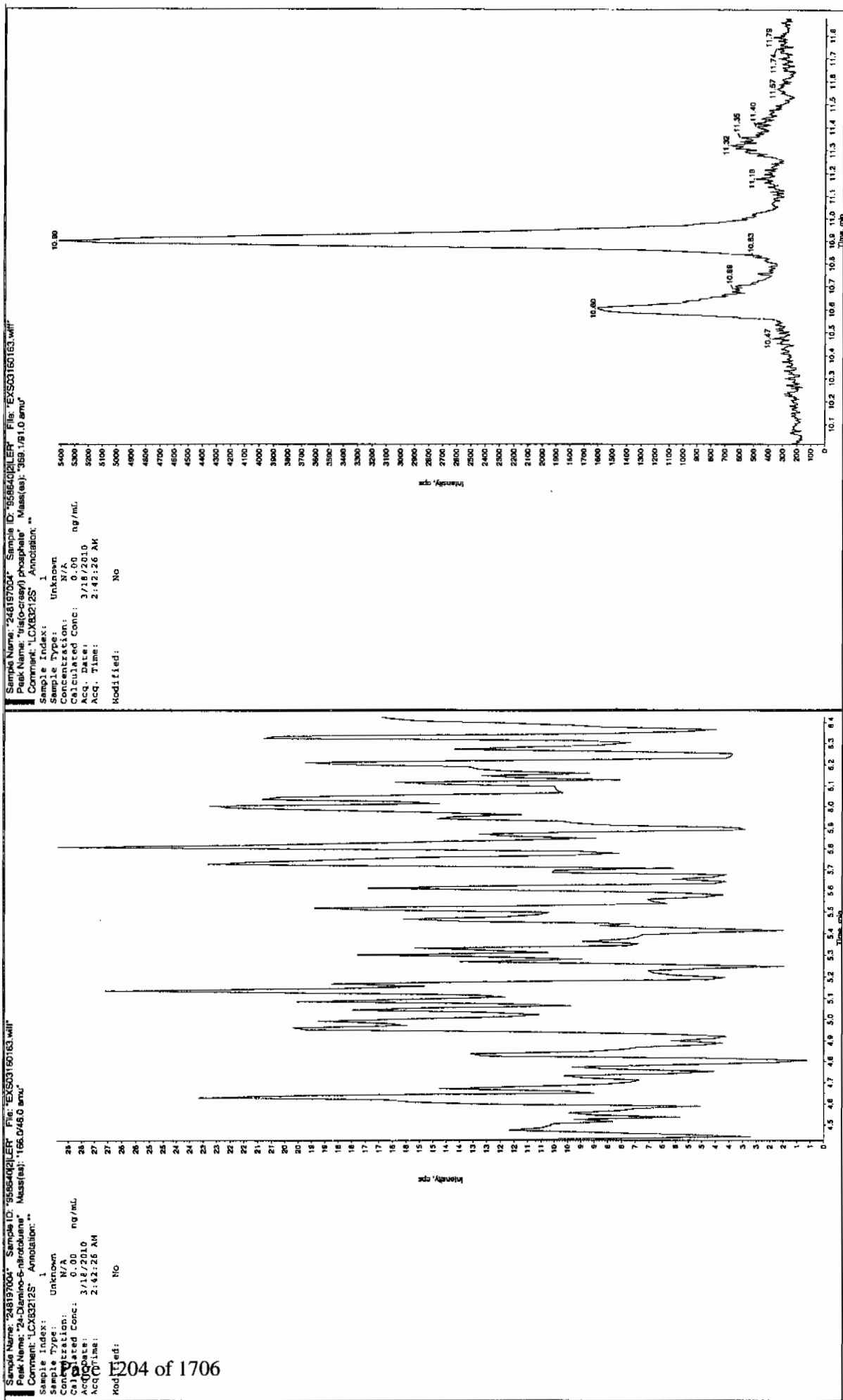
*Concentration =

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

don 3/19/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323069a

Date Analyzed: 24-MAR-10 18:34

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

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0323069a

Date: 24-Mar-2010

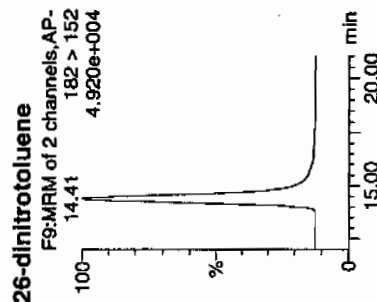
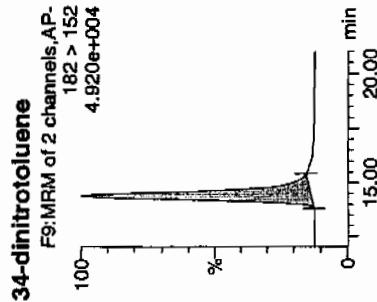
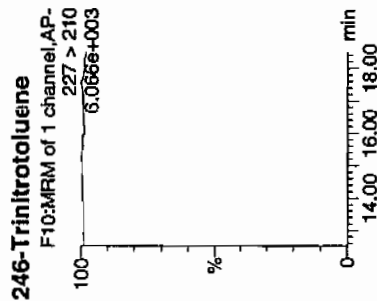
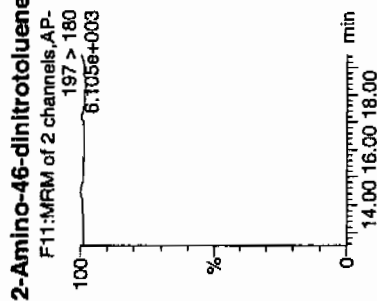
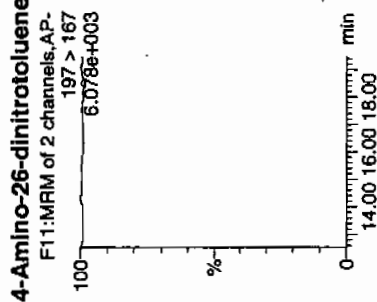
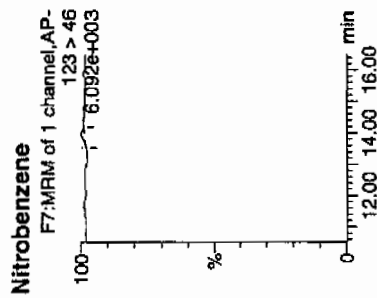
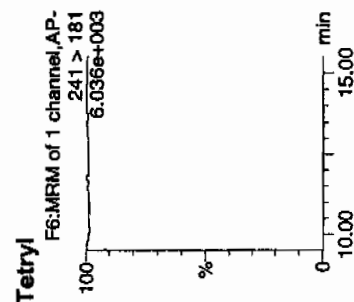
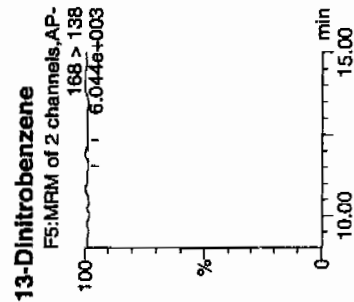
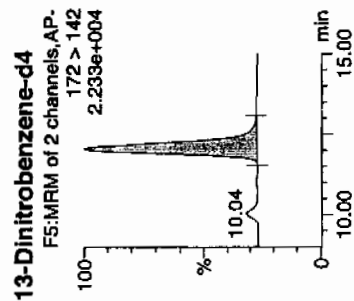
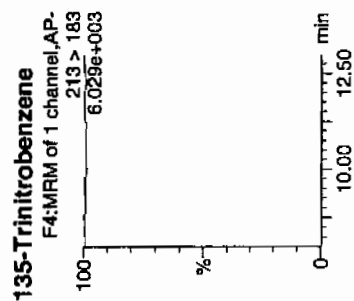
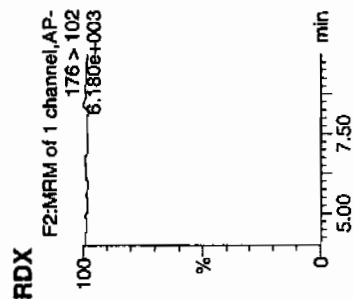
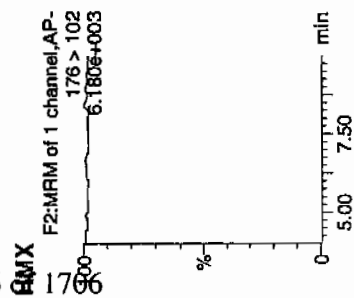
Time: 18:34:45

ID: 248197005

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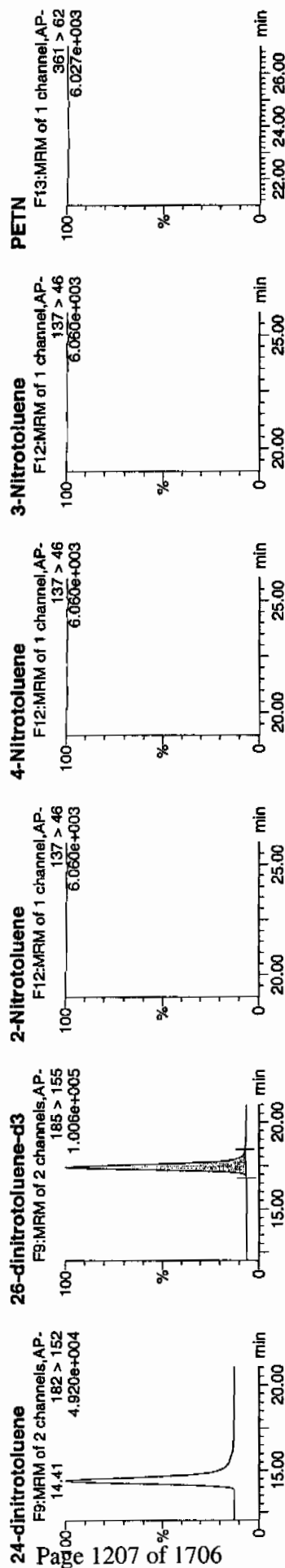
06

3/25/21
LWH



01/03/2010

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	Hit	Area	IS Area	Abs Resp	Response	Flag	Mod Date	Mod Time	Program	Y2000	Y2001	Y2002	Y2003	Y2004	Y2005	Y2006	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	
248197005	HMx	176 > 102			6583.542																												
248197005	RDX	176 > 102			6583.542																												
248197005	135-Trinitrobenzene	213 > 183			6583.542																												
248197005	13-Dinitrobenzene-d4	172 > 142	12.06	6583.542		6583.542	6583.542	bb			598.0393	119.6	19.6	722.0																			
248197005	13-Dinitrobenzene	168 > 138						MM-	25-Mar-10	09:48:56																							
248197005	Tetryl	241 > 181			6583.542																												
248197005	Nitrobenzene	123 > 46			6583.542																												
248197005	4-Amino-26-dinitrotoluene	197 > 167			37219.648																												
248197005	2-Amino-46-dinitrotoluene	197 > 180			37219.648																												
248197005	246-Trinitrotoluene	227 > 210			37219.648																												
248197005	34-dinitrotoluene	182 > 152	14.41	20551.371	37219.648	20551.371	276.082	bb			260.7296	104.3	4.3	554.9																			
248197005	26-dinitrotoluene	182 > 152			37219.648																												
248197005	24-dinitrotoluene	182 > 152			37219.648																												
248197005	26-dinitrotoluene-d3	185 > 155	17.41	37219.648		37219.648	37219.648	bb			540.5029	108.1	8.1	1583.1																			
248197005	2-Nitrotoluene	137 > 46			37219.648																												
248197005	4-Nitrotoluene	137 > 46			37219.648																												
248197005	3-Nitrotoluene	137 > 46			37219.648																												
248197005	PETN	361 > 62			37219.648																												

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7516

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197005

Sample Amount 2

Moisture: 18.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160164.wiff

Date Analyzed: 18-MAR-10 02:58

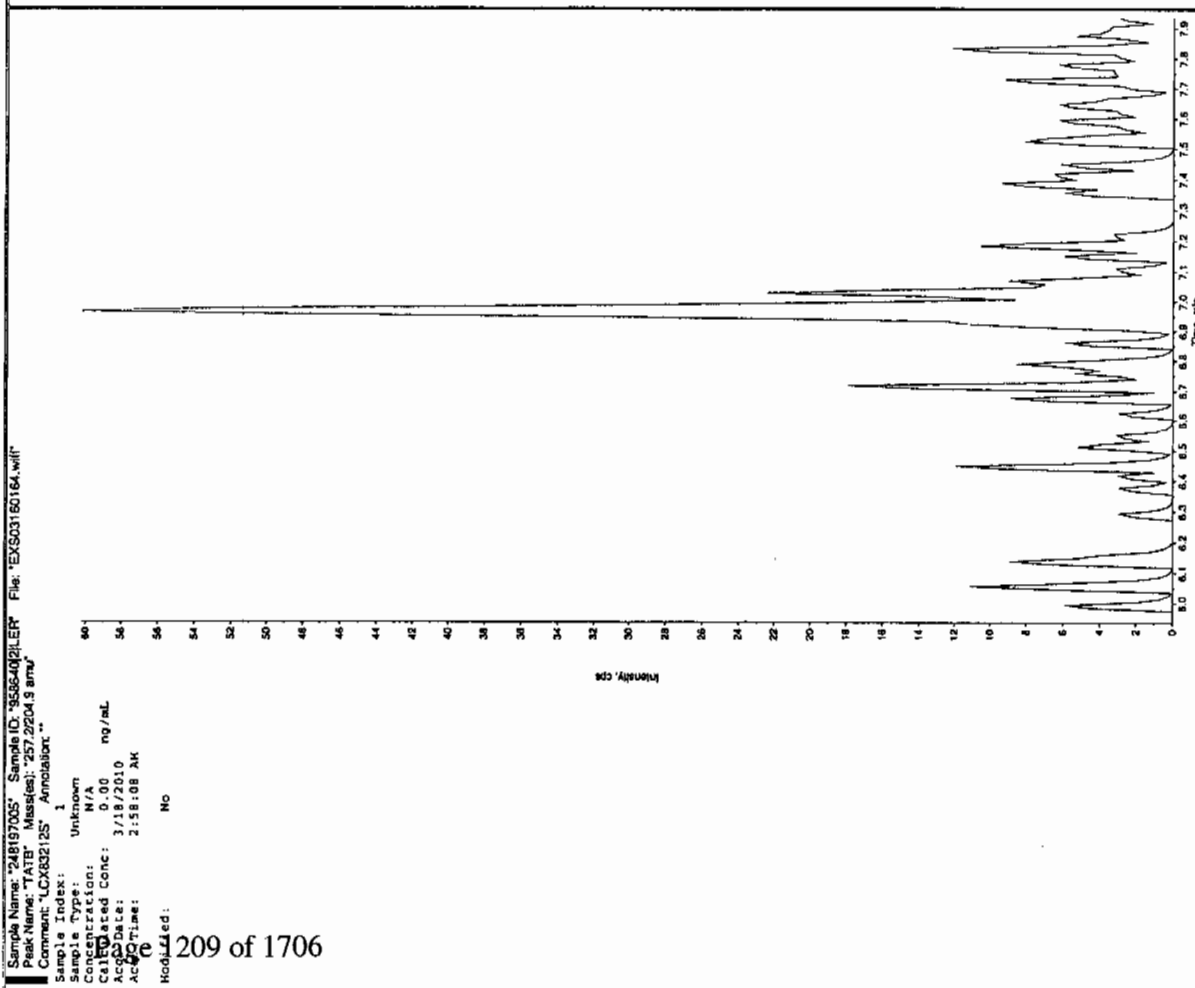
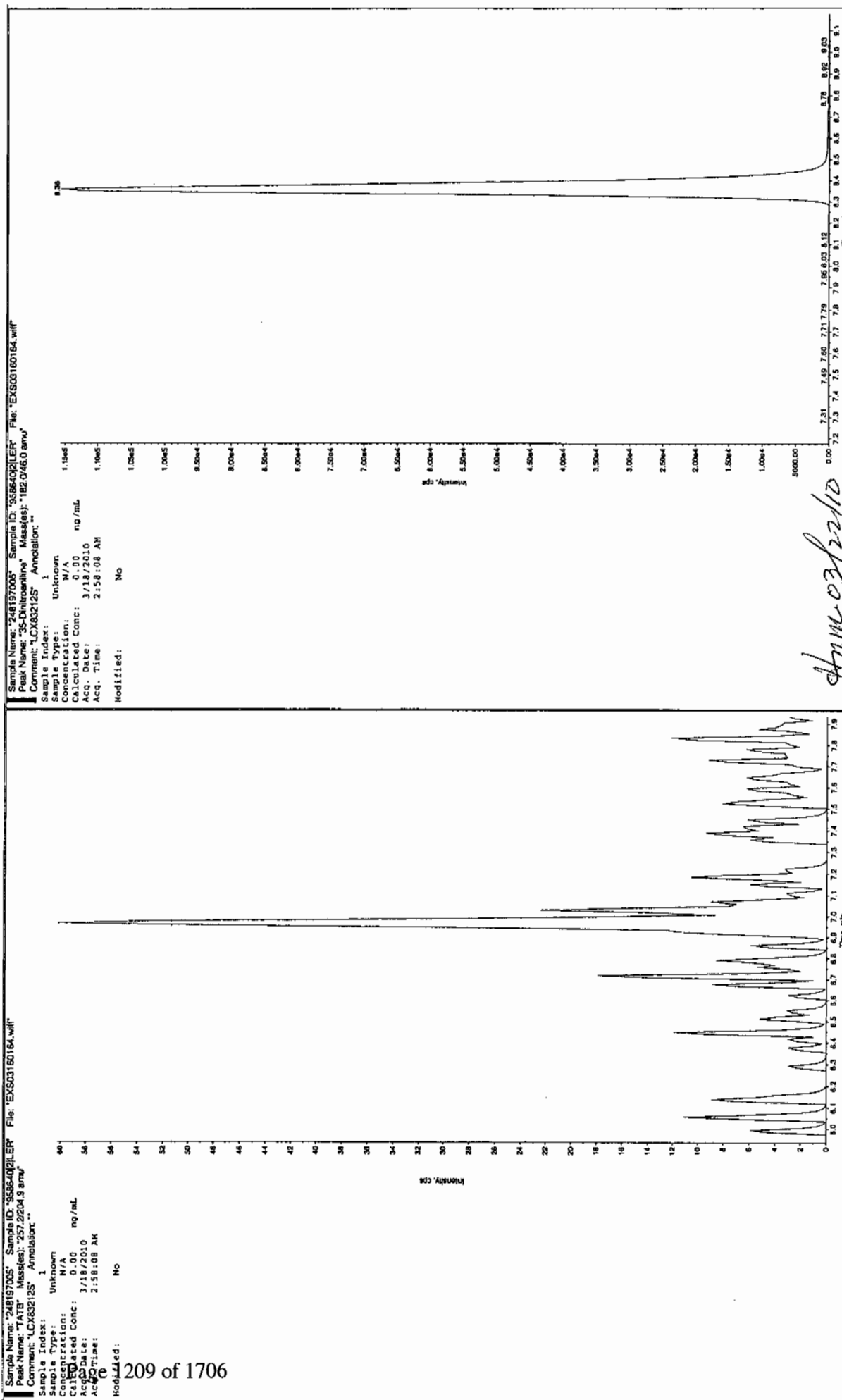
Units: ug/kg

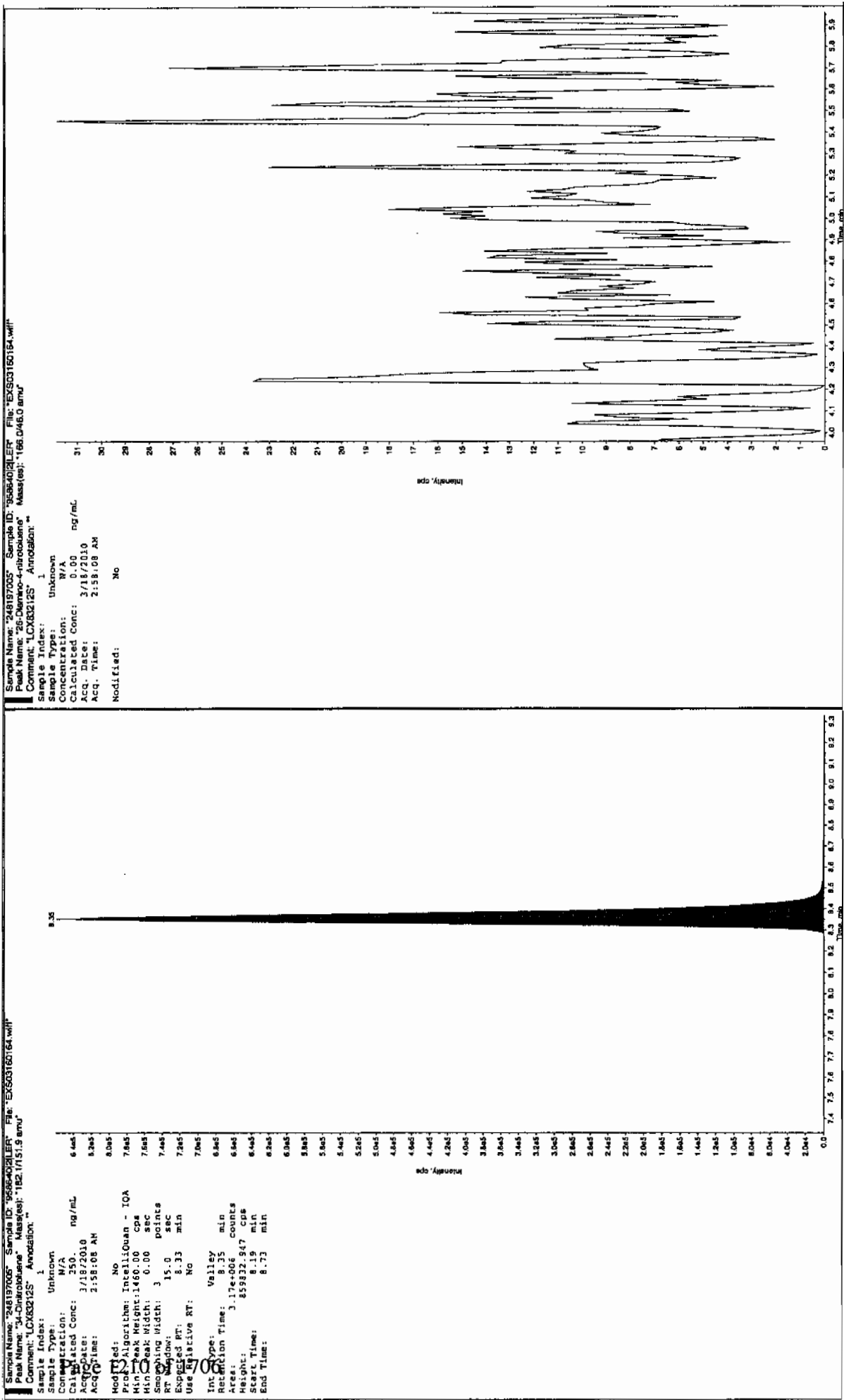
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

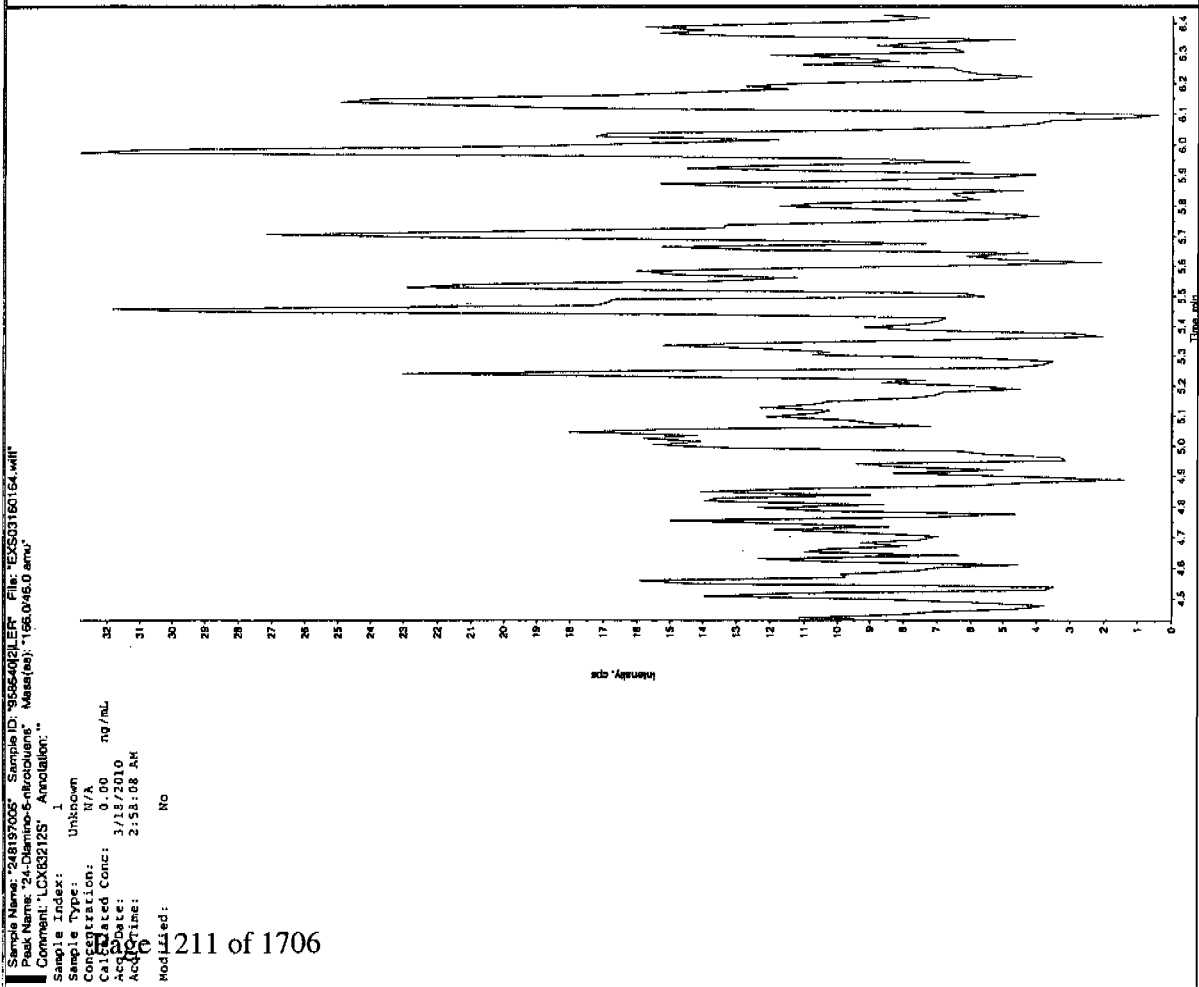
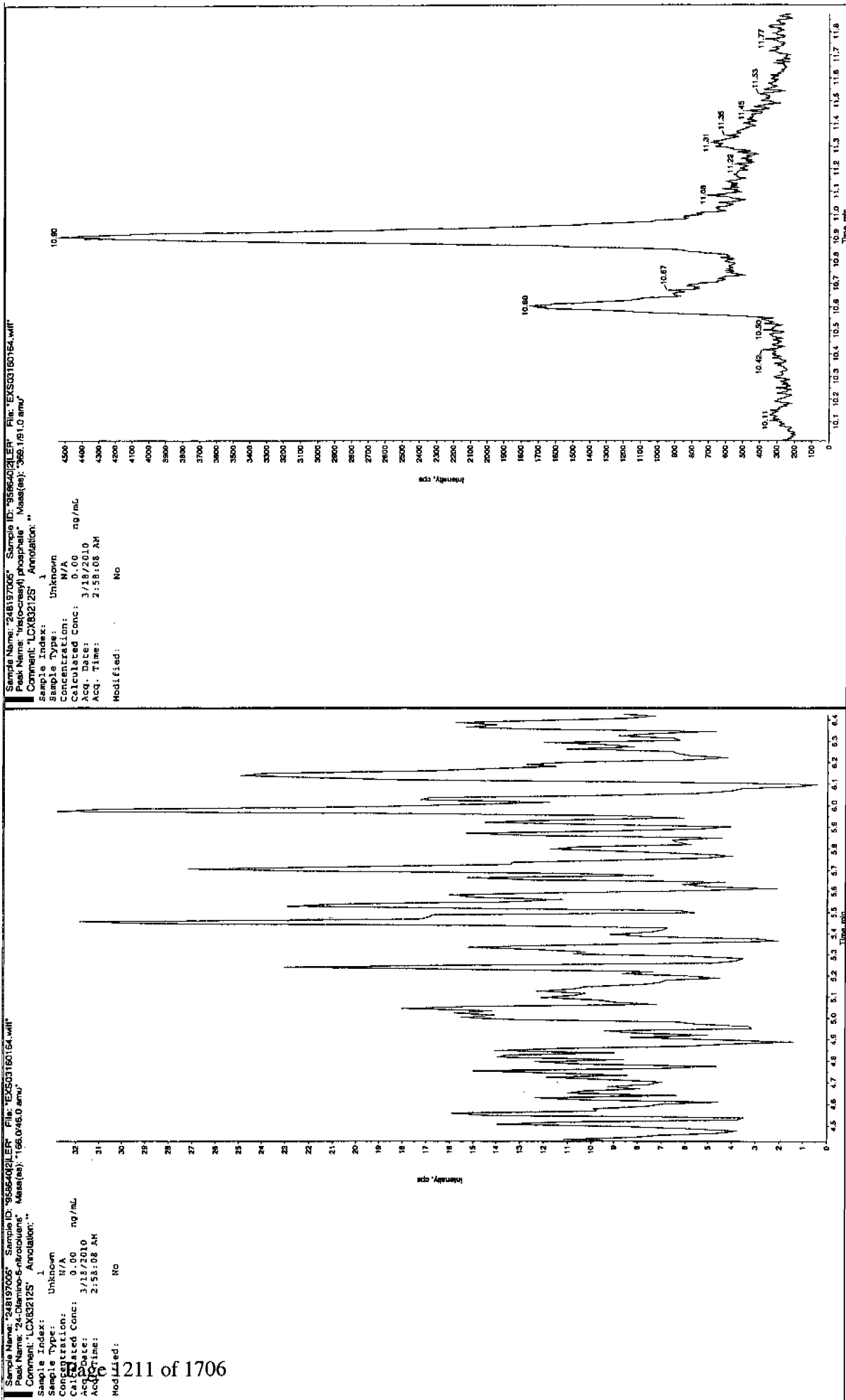
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

San shao





*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: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323070a

Date Analyzed: 24-MAR-10 19:04

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>		

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323070a

Date: 24-Mar-2010

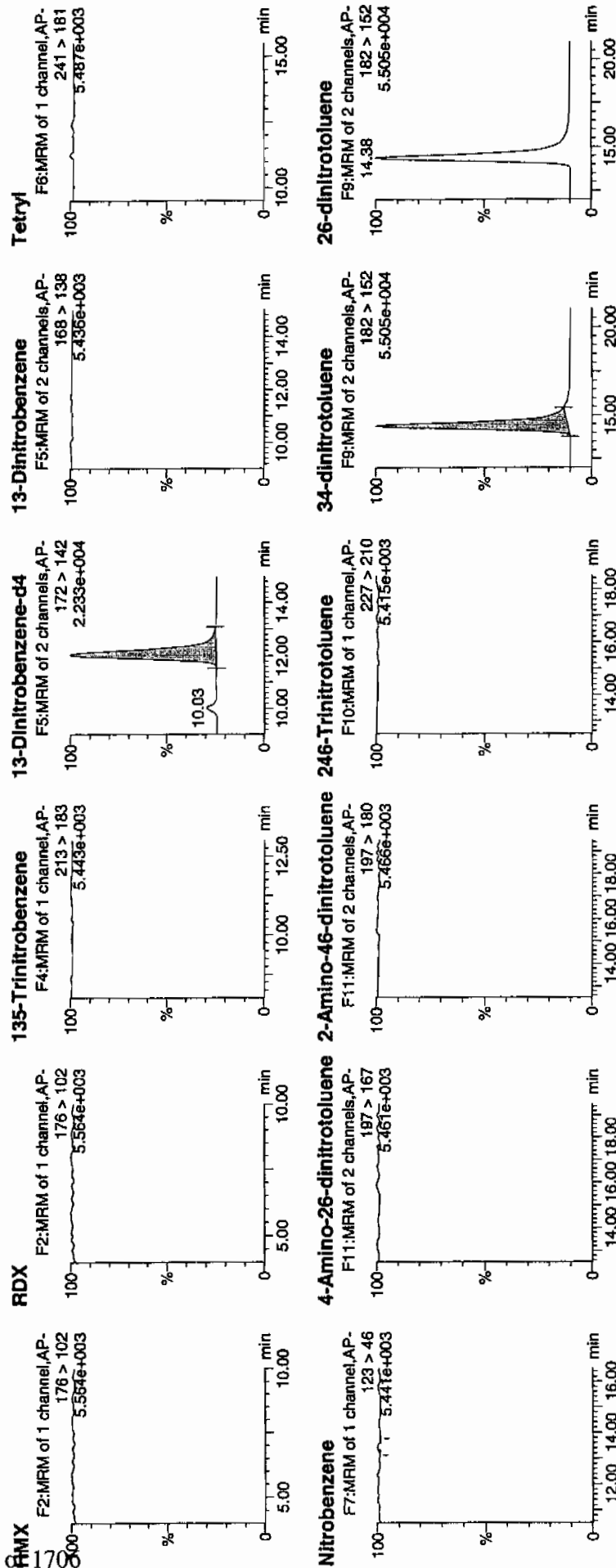
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ID: 248197007

Mat: 2:7,D

100%
3/25/10

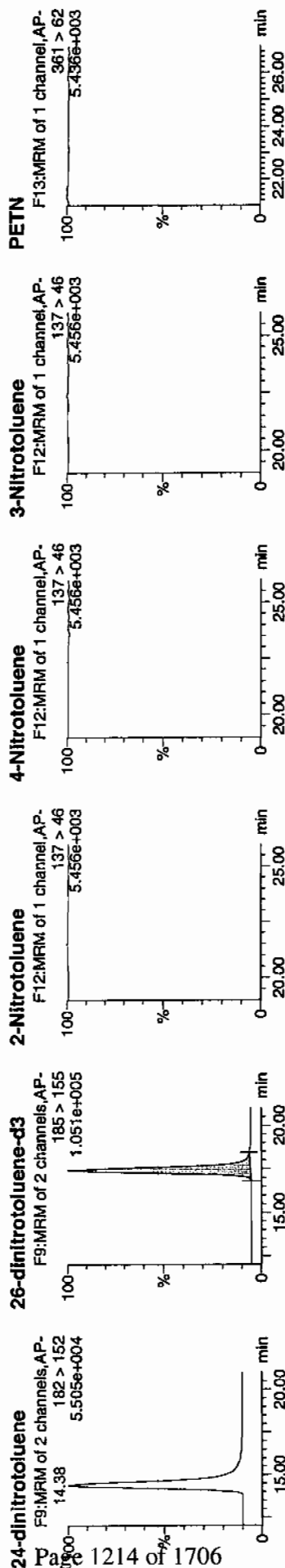
1958640 / 21



100%
3/25/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	Area	SArea	Response	Flags	ModTime	ModUser	ModSys
248197007	HMX	176 > 102	6802.239						
248197007	RDX	176 > 102	6802.239						
248197007	135-Trinitrobenzene	213 > 183	6802.239						
248197007	13-Dinitrobenzene-d4	172 > 142	12.03	6802.239	6802.239	bb	617.9054	123.6	586.5
248197007	13-Dinitrobenzene	168 > 138							
248197007	Tetryl	241 > 181							
248197007	Nitrobenzene	123 > 46							
248197007	4-Amino-26-dinitrotoluene	197 > 167							
248197007	2-Amino-46-dinitrotoluene	197 > 180							
248197007	246-Trinitrotoluene	227 > 210							
248197007	34-dinitrotoluene	182 > 152	14.38	23738.711	39434.430	bb	284.2519	113.7	1413.6
248197007	26-dinitrotoluene	182 > 152							
248197007	24-dinitrotoluene	182 > 152							
248197007	26-dinitrotoluene-d3	185 > 155	17.42	39434.430	39434.430	bb	572.6659	114.5	3767.8
248197007	2-Nitrotoluene	137 > 46							
248197007	4-Nitrotoluene	137 > 46							
248197007	3-Nitrotoluene	137 > 46							
248197007	PETN	361 > 62							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7426

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197007

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160165.wiff

Date Analyzed: 18-MAR-10 03:13

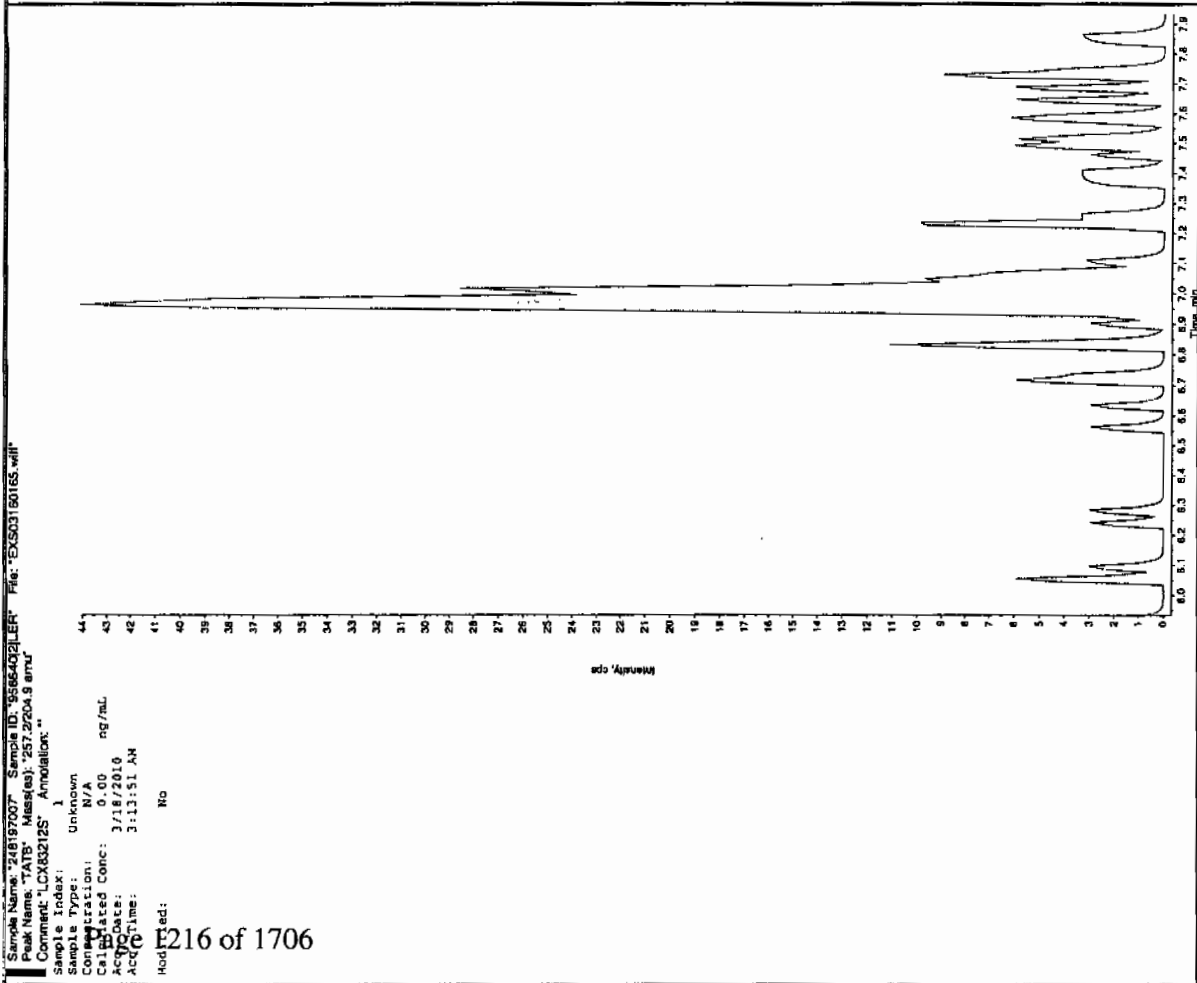
Units: ug/kg

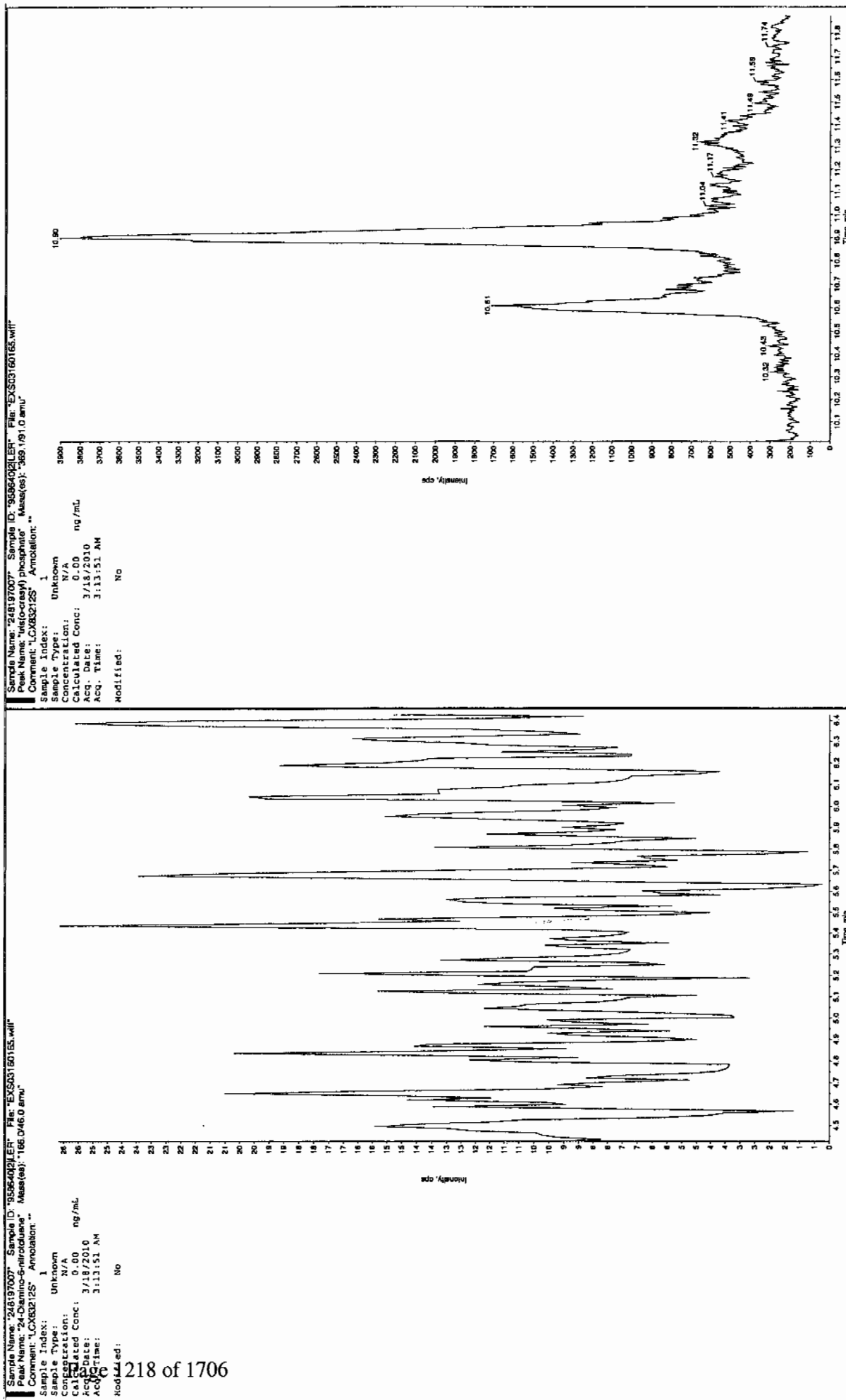
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

See 211010





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Moisture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323071a

Date Analyzed: 24-MAR-10 19:33

Units: ug/kg

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

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323071a

Date: 24-Mar-2010

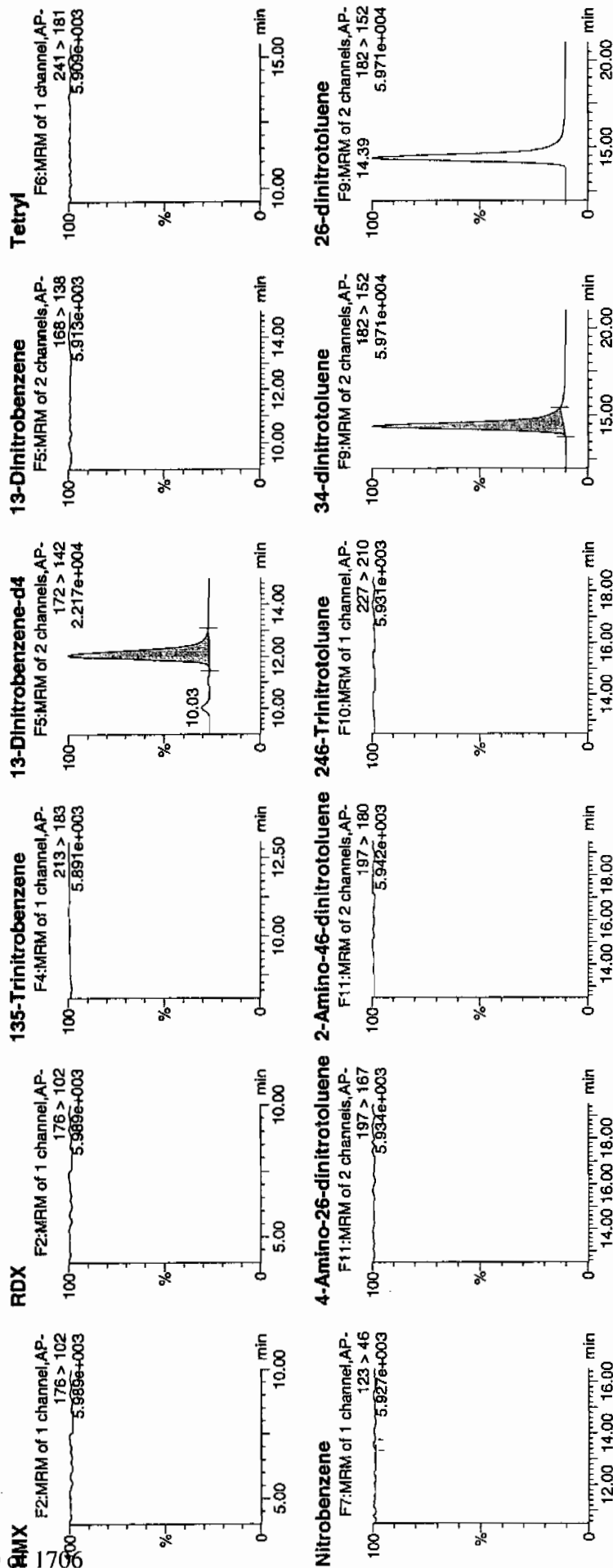
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MTD
3/25/10

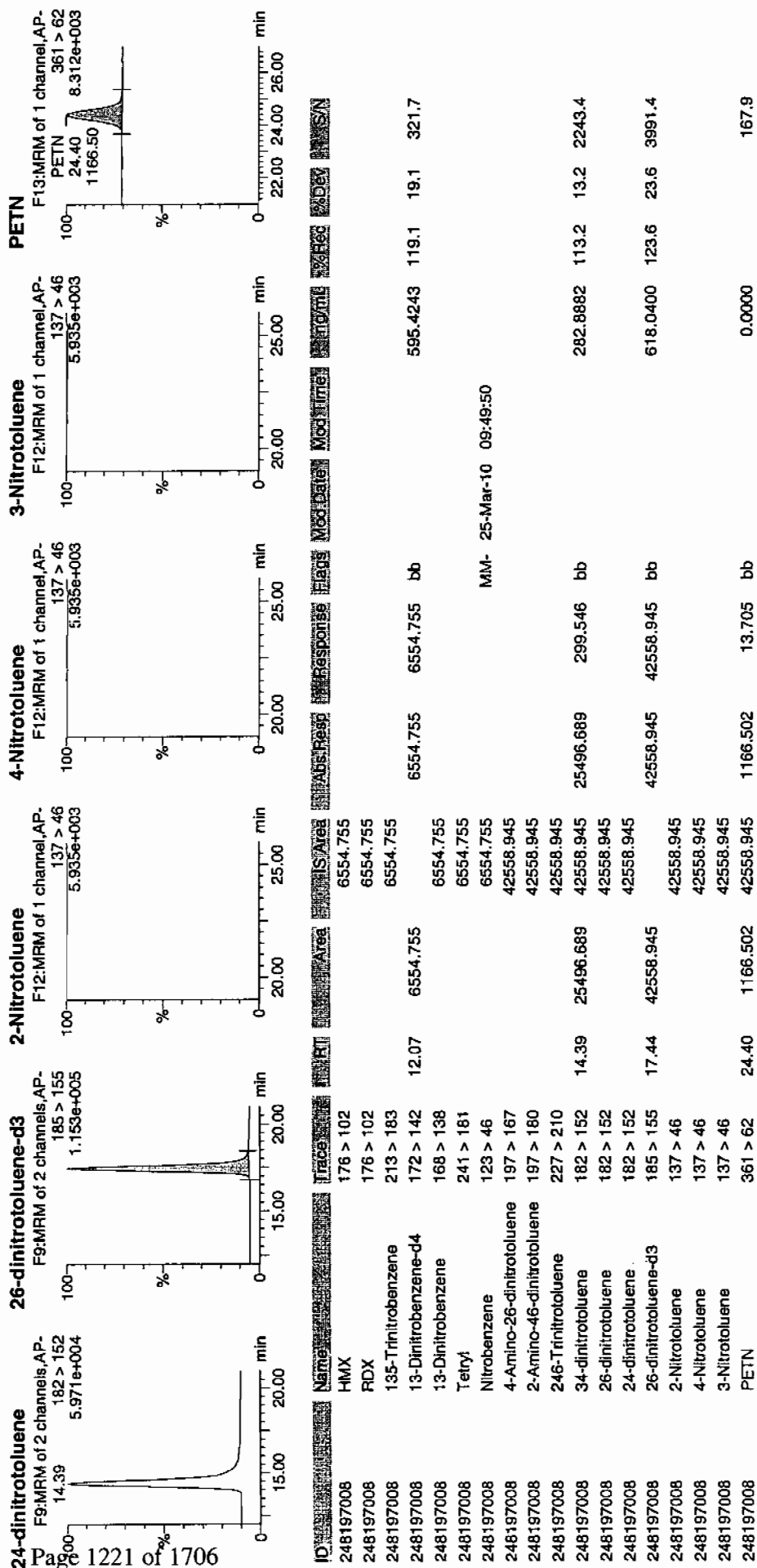
LAU 193640 | 21



MM 03/23/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7432

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197008

Sample Amount 2

Moisture: 13.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160166.wiff

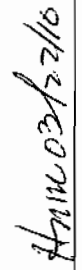
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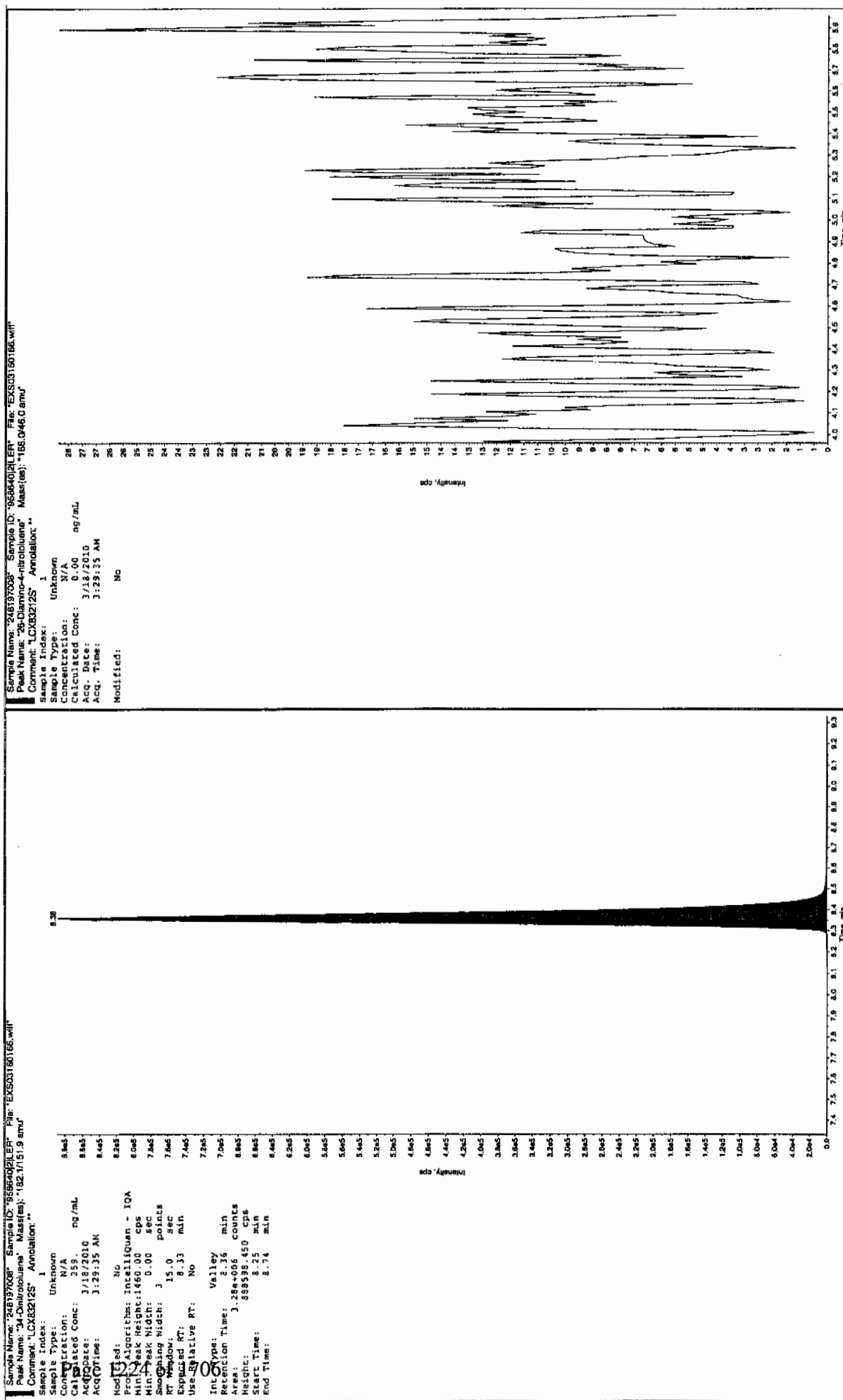
Units: ug/kg

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

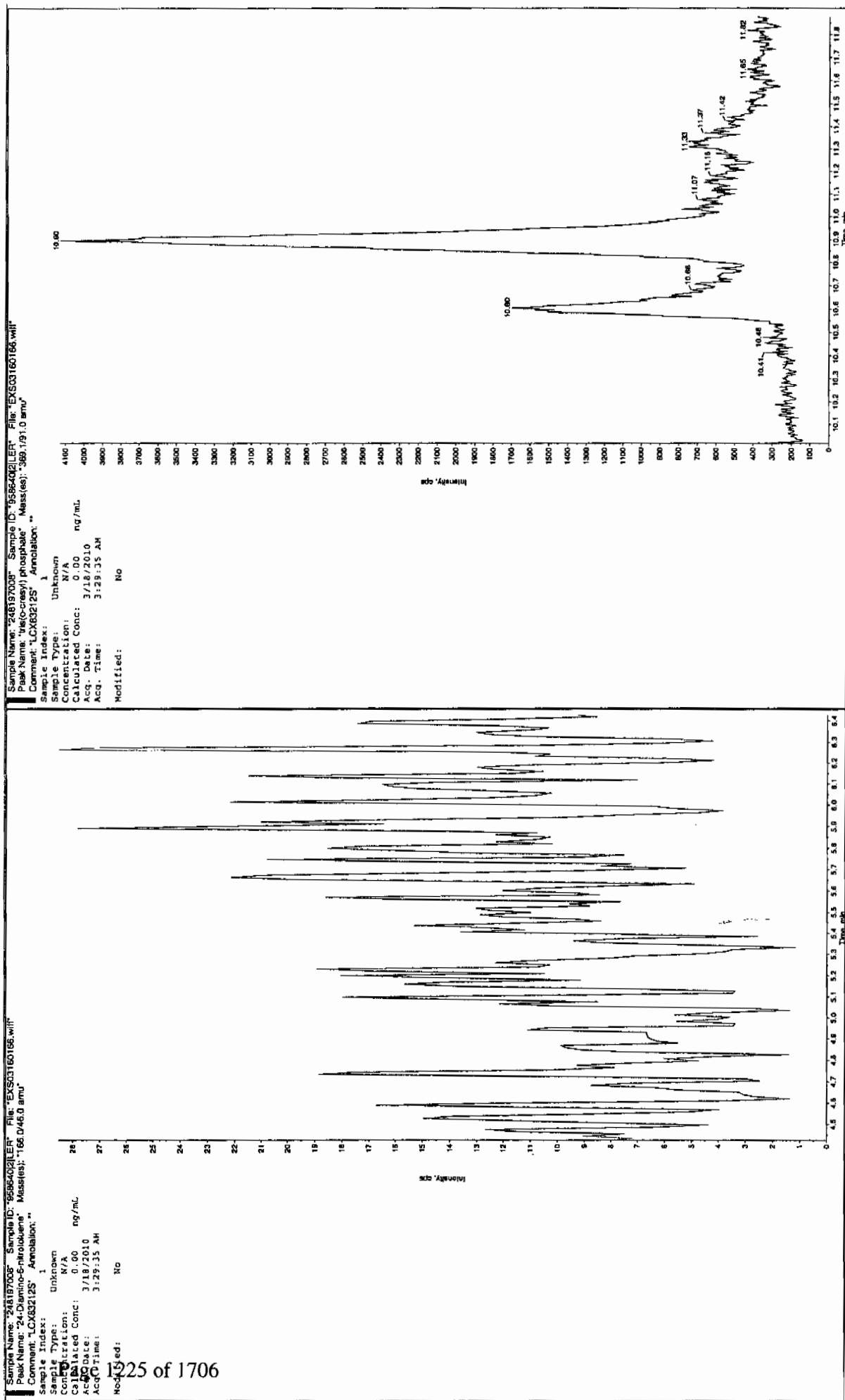
*Concentration =

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





*GEL SOP GL-2A-E-056, Method 8321A-Modified LCMSMS#4



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323072a

Date Analyzed: 24-MAR-10 20:03

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323072a

Date: 24-Mar-2010

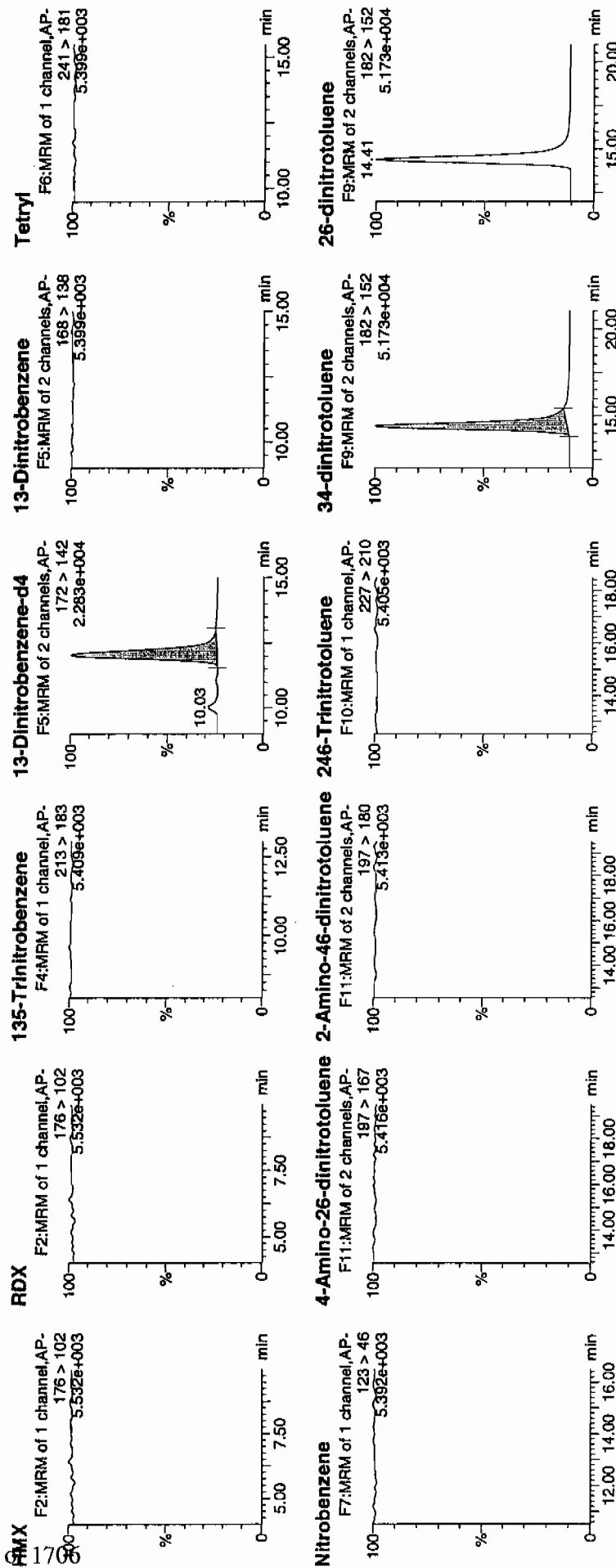
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ID: 248197009

Val: 2:7,F

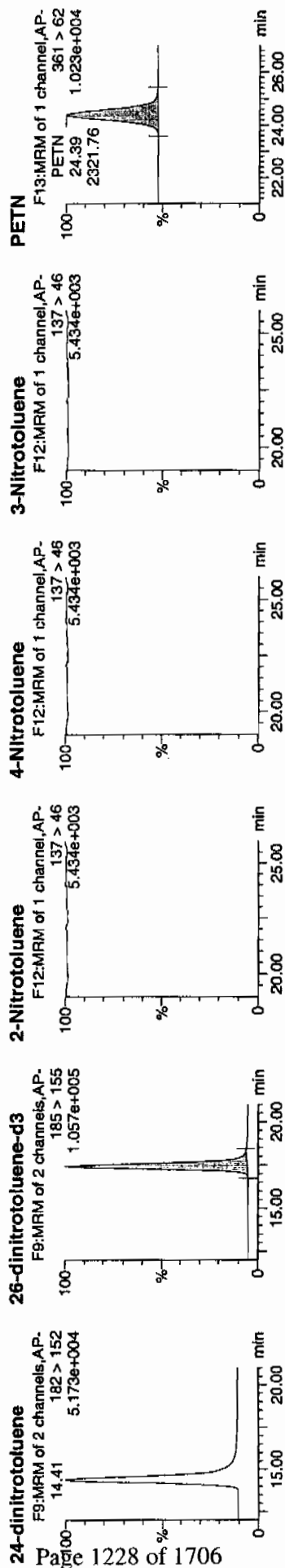
1477
3/25/10

953640 | 21



4mm
0.35g/10

Dataset: C:\MASSLYNX\New_Exp\PRO1032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Flags	Mod Date	Mod User	% Rec	% Dev	MM	SN
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248197009	RDX	176 > 102		6999.667									
248197009	135-Trinitrobenzene	213 > 183		6999.667									
248197009	13-Dinitrobenzene-d4	172 > 142	12.06	6999.667		6999.667	bb			635.8395	127.2	27.2	2118.8
248197009	13-Dinitrobenzene	168 > 138		6999.667									
248197009	Tetryl	241 > 181		6999.667									
248197009	Nitrobenzene	123 > 46		6999.667									
248197009	4-Amino-26-dinitrotoluene	197 > 167		39311.227									
248197009	2-Amino-46-dinitrotoluene	197 > 180		39311.227									
248197009	246-Trinitrotoluene	227 > 210		39311.227									
248197009	34-dinitrotoluene	182 > 152	14.41	22036.008		22036.008	bb			264.6904	105.9	5.9	1040.9
248197009	26-dinitrotoluene	182 > 152		39311.227									
248197009	24-dinitrotoluene	182 > 152		39311.227									
248197009	26-dinitrotoluene-d3	185 > 155	17.41	39311.227		39311.227	bb			570.8767	114.2	14.2	2598.5
248197009	2-Nitrotoluene	137 > 46		39311.227									
248197009	4-Nitrotoluene	137 > 46		39311.227									
248197009	3-Nitrotoluene	137 > 46		39311.227									
248197009	PETN	361 > 62	24.39	2321.761		2321.761	bb			14.6252			933.5

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7431

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197009

Sample Amount 2

Moisture: 23.0

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160167.wiff

Date Analyzed: 18-MAR-10 03:45

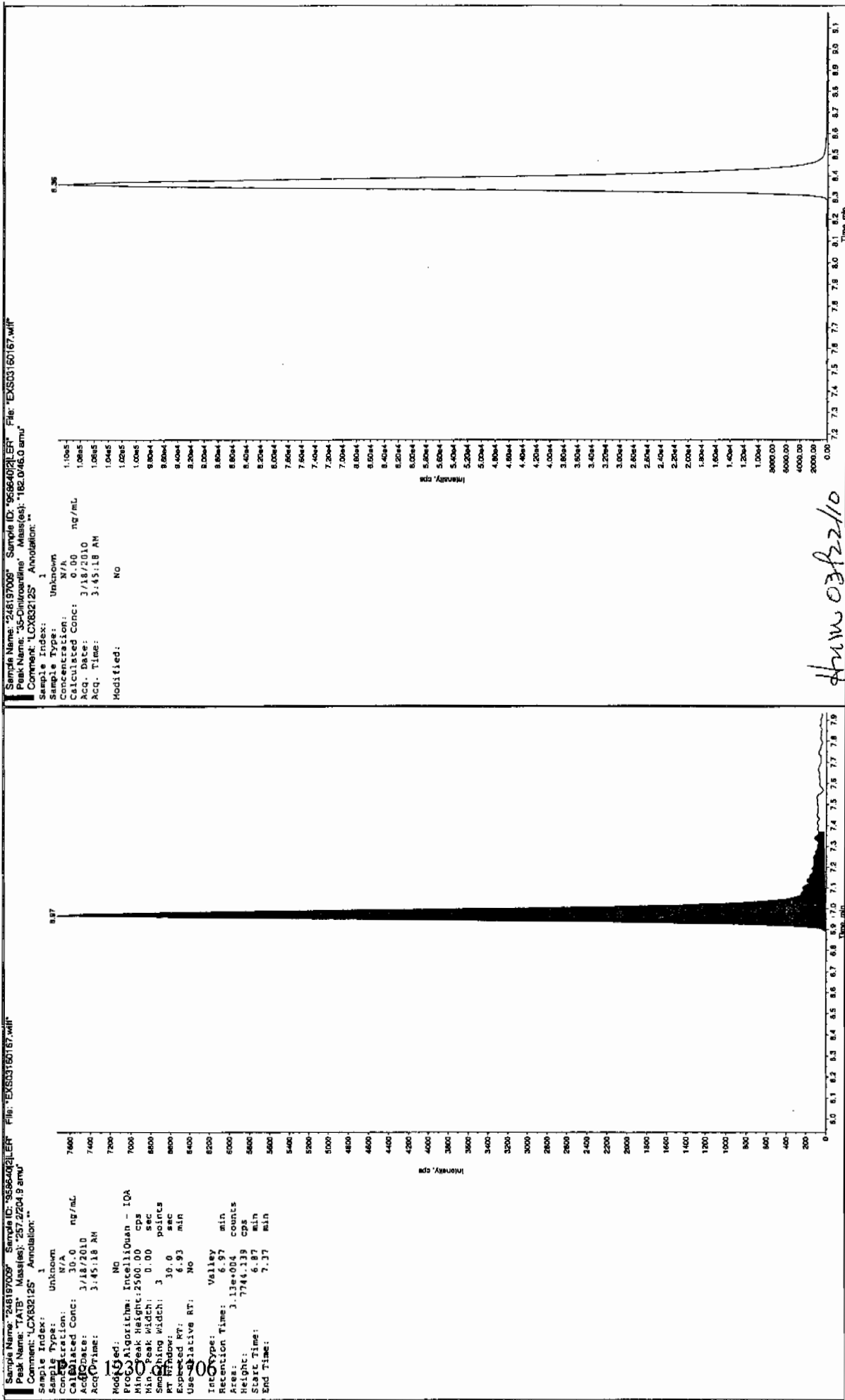
Units: ug/kg

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

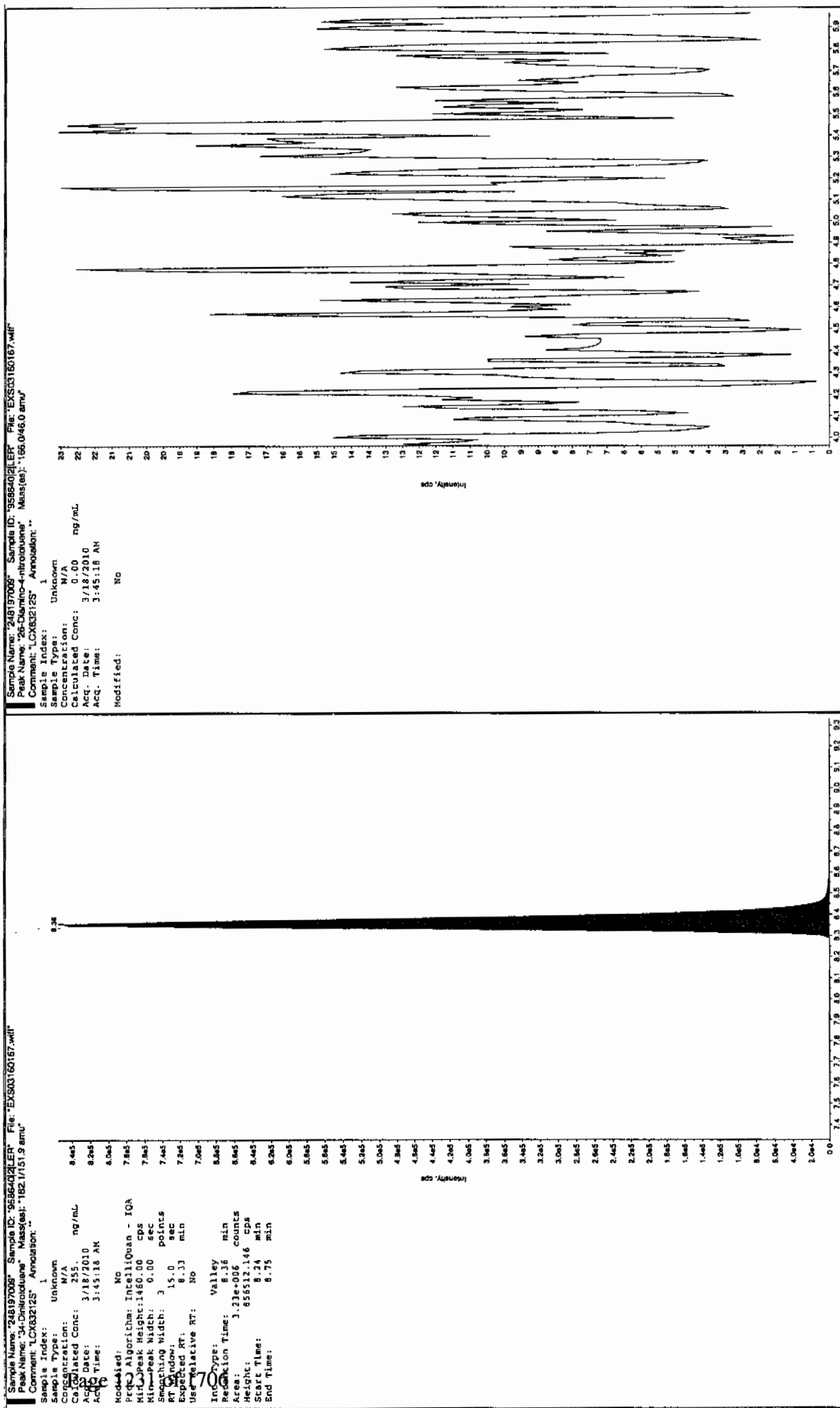
*Concentration =

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

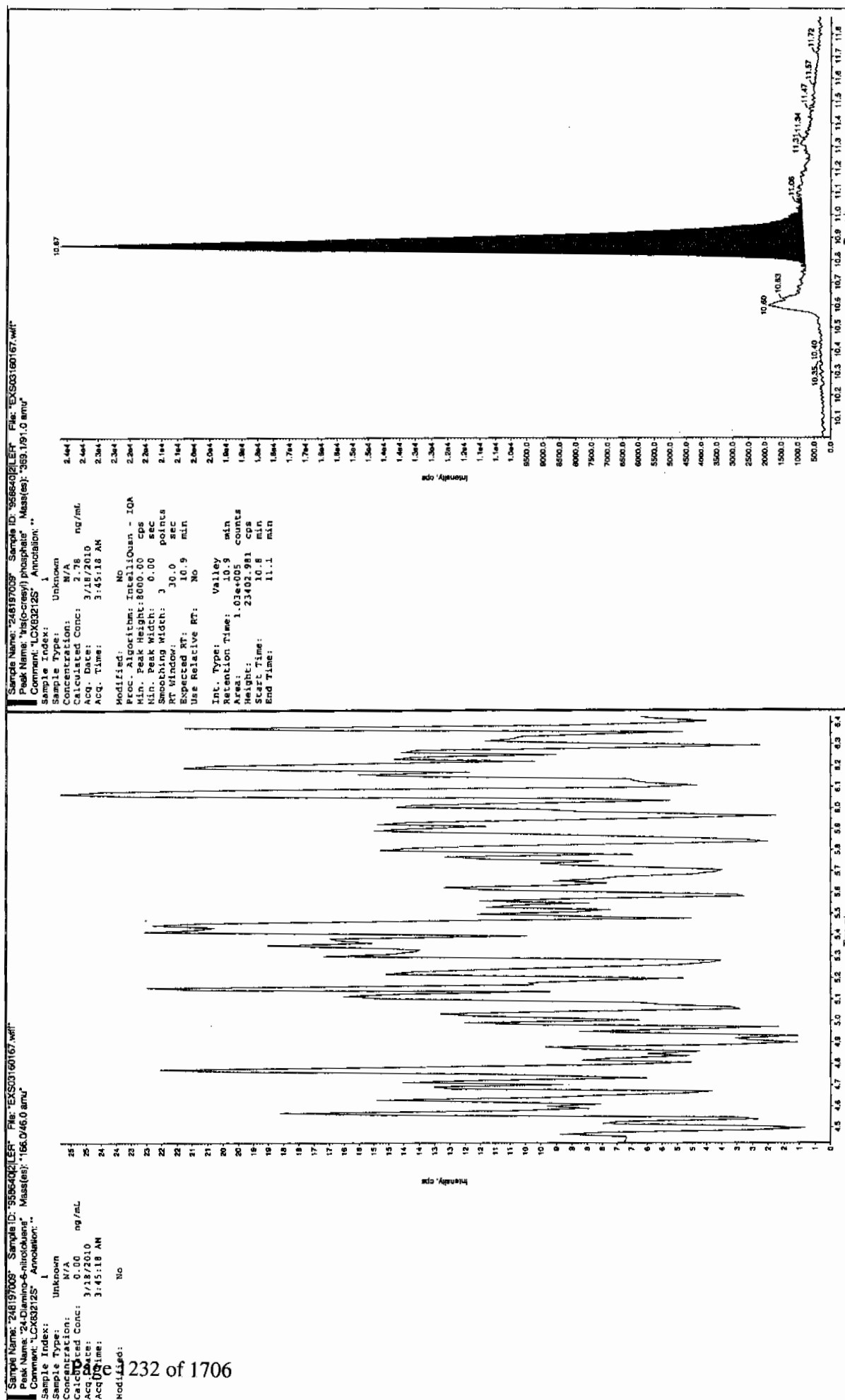
Jan 3/19/10



Hum 03/22/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*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: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323076a

Date Analyzed: 24-MAR-10 22:01

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323076a

Date: 24-Mar-2010

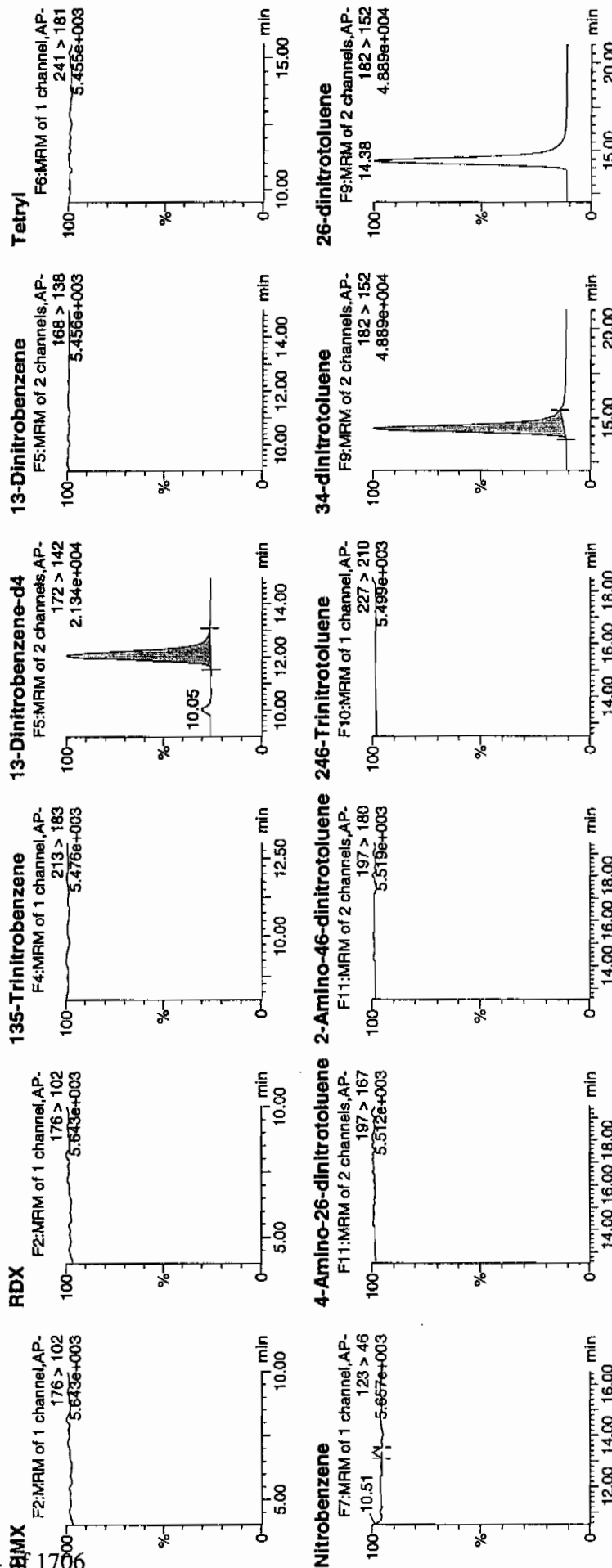
Time: 22:01:18

ID: 248197010

Val: 2:8.A

Not
3/25/10

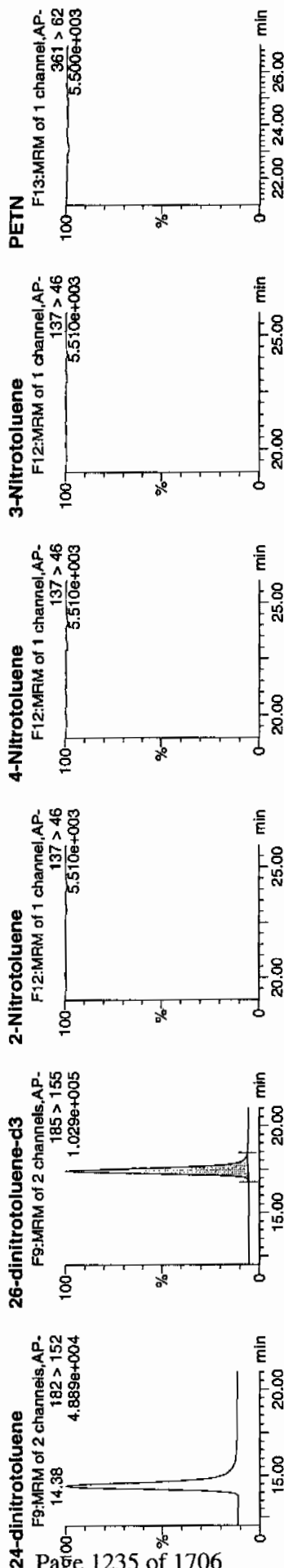
WAX 958640 | 8022 | 21



from 30/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Mod By	Dev	S/N
248197010	HMX	176 > 102			6292.985								
248197010	RDX	176 > 102			6292.985								
248197010	135-Trinitrobenzene	213 > 183			6292.985								
248197010	13-Dinitrobenzene-d4	172 > 142	12.07	6292.985		6292.985	6292.985	bb			571.6455	114.3	924.5
248197010	13-Dinitrobenzene	168 > 138			6292.985								
248197010	Tetryl	241 > 181			6292.985								
248197010	Nitrobenzene	123 > 46			6292.985								
248197010	4-Amino-26-dinitrotoluene	197 > 167			38318.781								
248197010	2-Amino-46-dinitrotoluene	197 > 180			38318.781								
248197010	246-Trinitrotoluene	227 > 210			38318.781								
248197010	34-dinitrotoluene	182 > 152	14.38	20664.549	38318.781	20664.549	269.640	bb			254.6456	101.9	1102.2
248197010	26-dinitrotoluene	182 > 152			38318.781								
248197010	24-dinitrotoluene	182 > 152			38318.781								
248197010	26-dinitrotoluene-d3	185 > 155	17.42	38318.781		38318.781	38318.781	bb			556.4645	111.3	2852.6
248197010	2-Nitrotoluene	137 > 46			38318.781								
248197010	4-Nitrotoluene	137 > 46			38318.781								
248197010	3-Nitrotoluene	137 > 46			38318.781								
248197010	PETN	361 > 62			38318.781								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7434

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197010

Sample Amount 2

Moisture: 22.9

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160171.wiff

Date Analyzed: 18-MAR-10 04:48

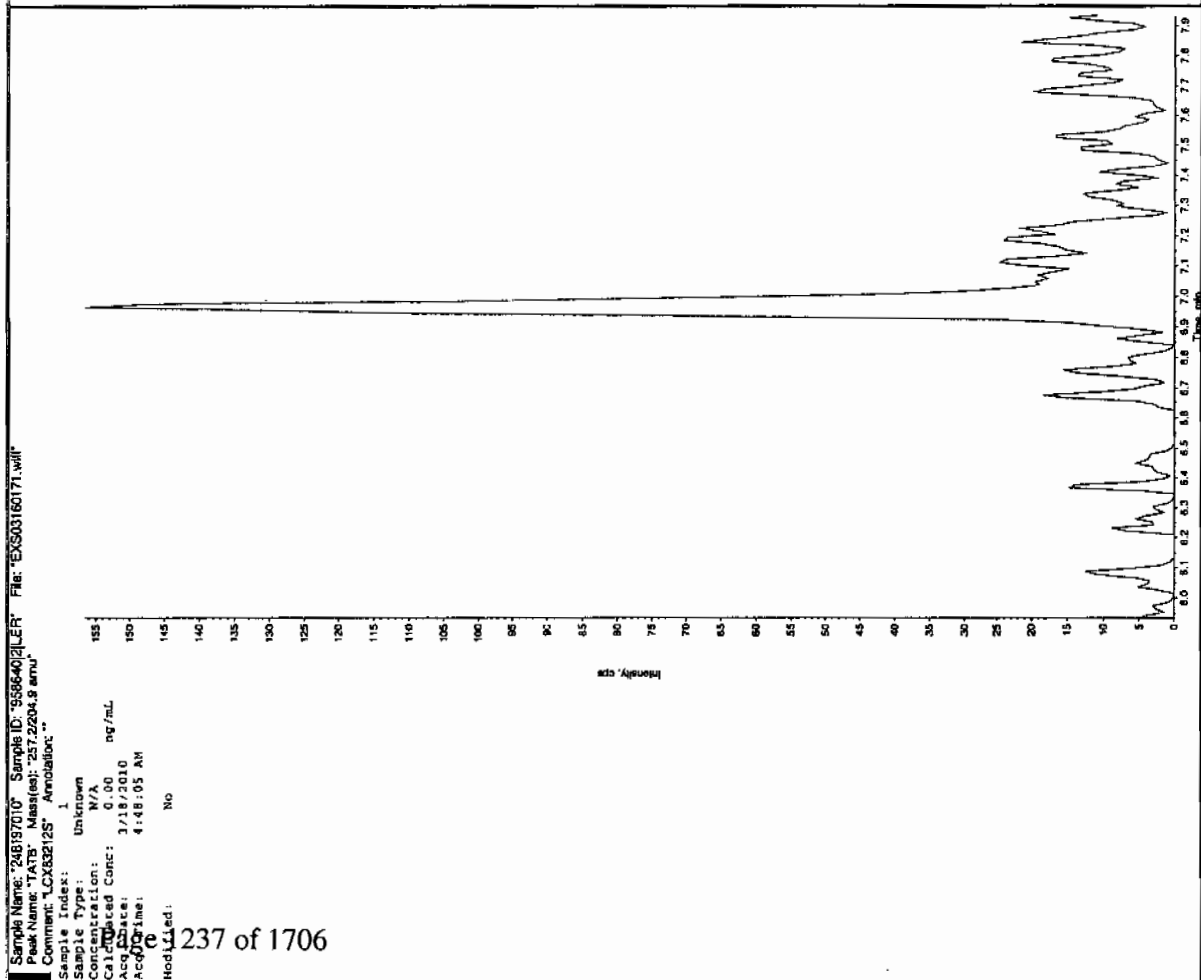
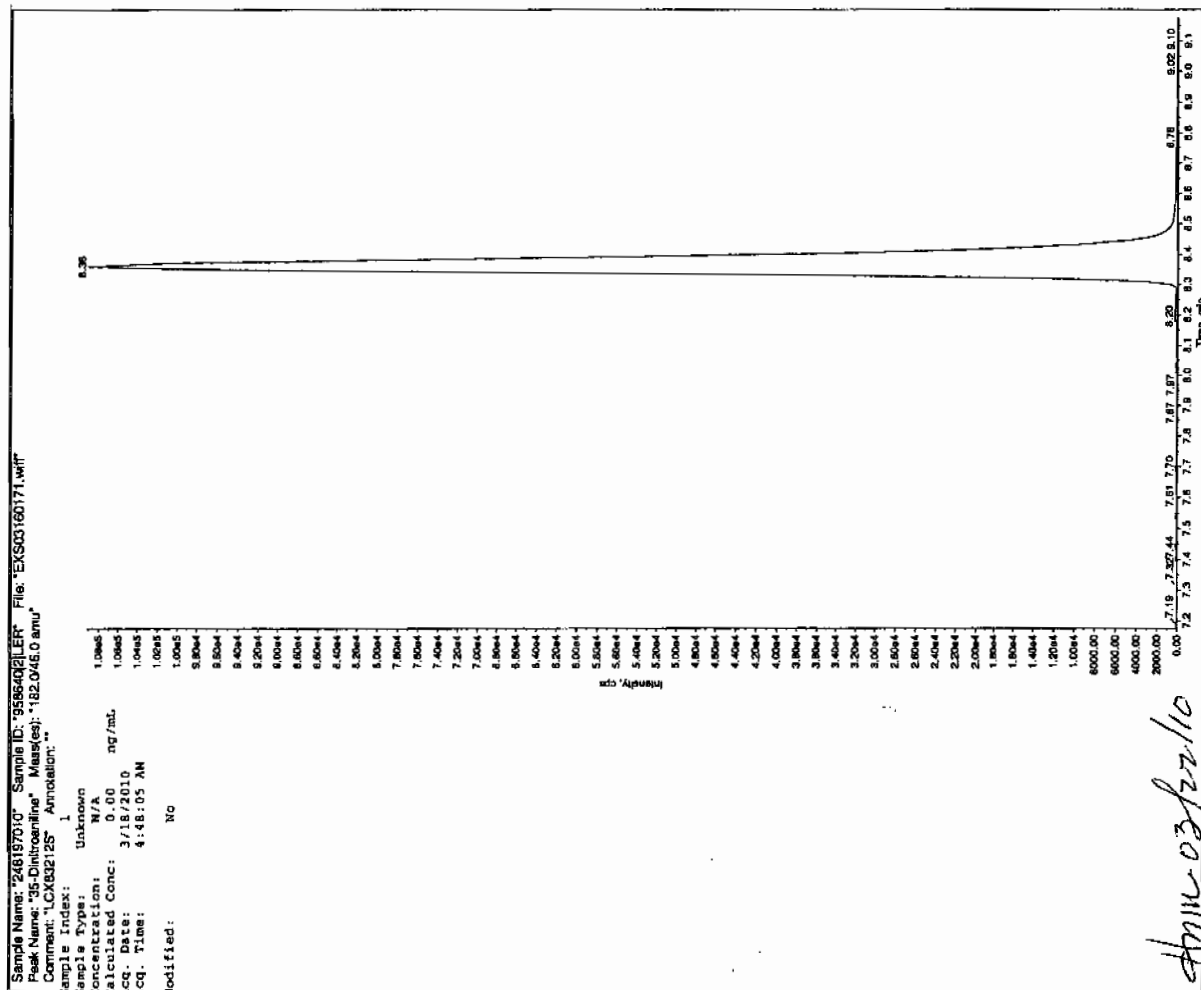
Units: ug/kg

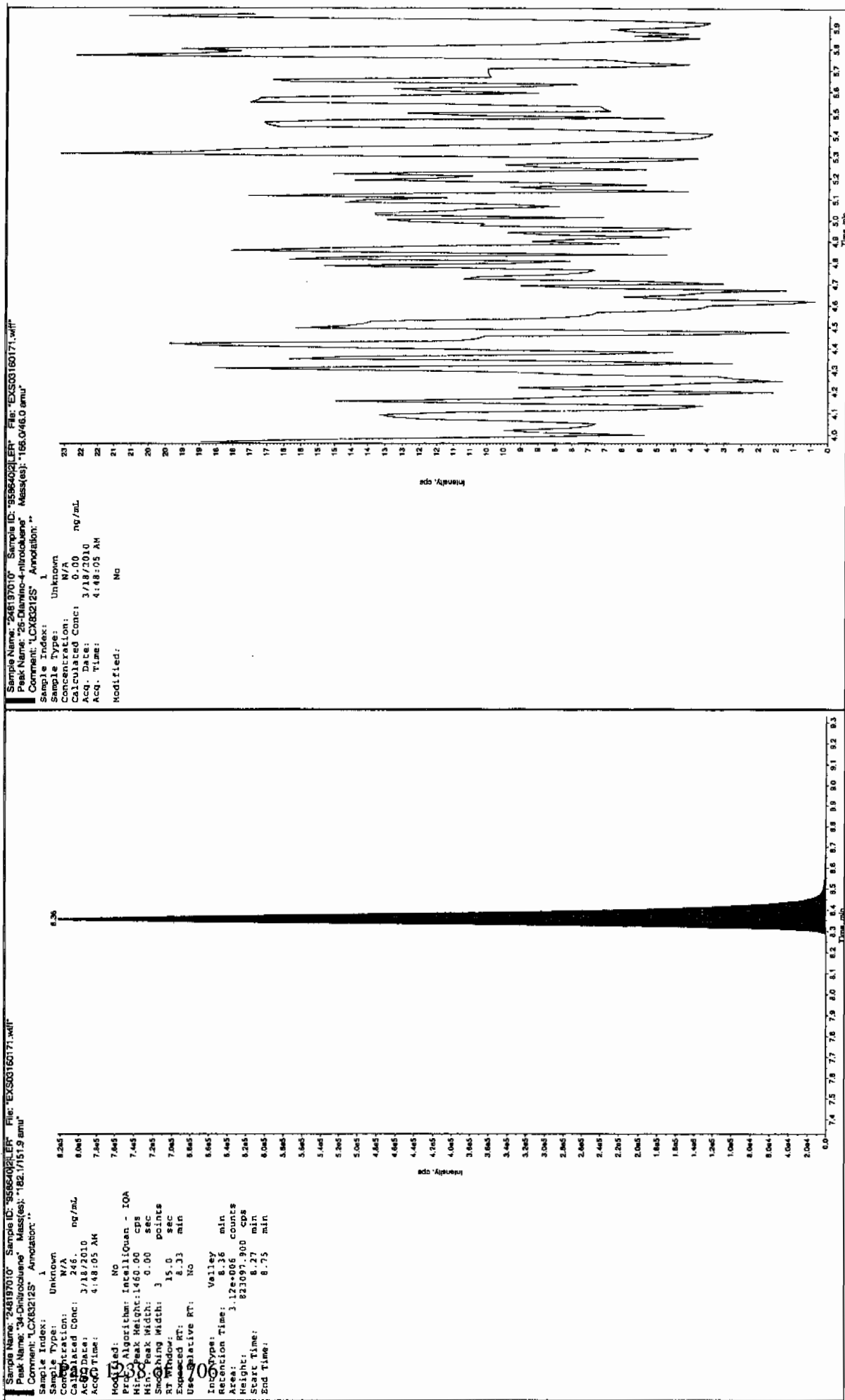
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

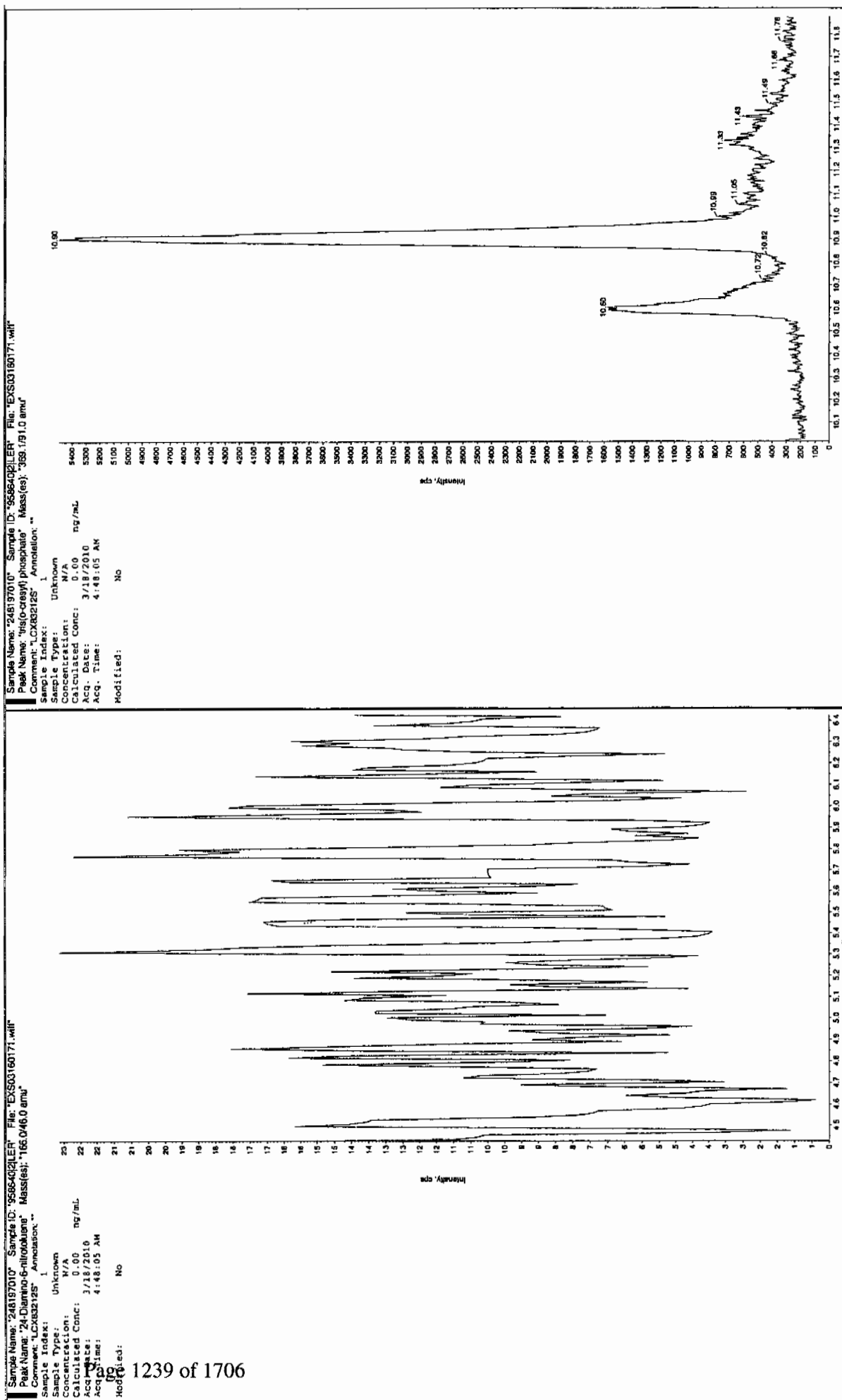
*Concentration =

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

Sen 3/19/10







1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323077a

Date Analyzed: 24-MAR-10 22:30

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323077a

Date: 24-Mar-2010

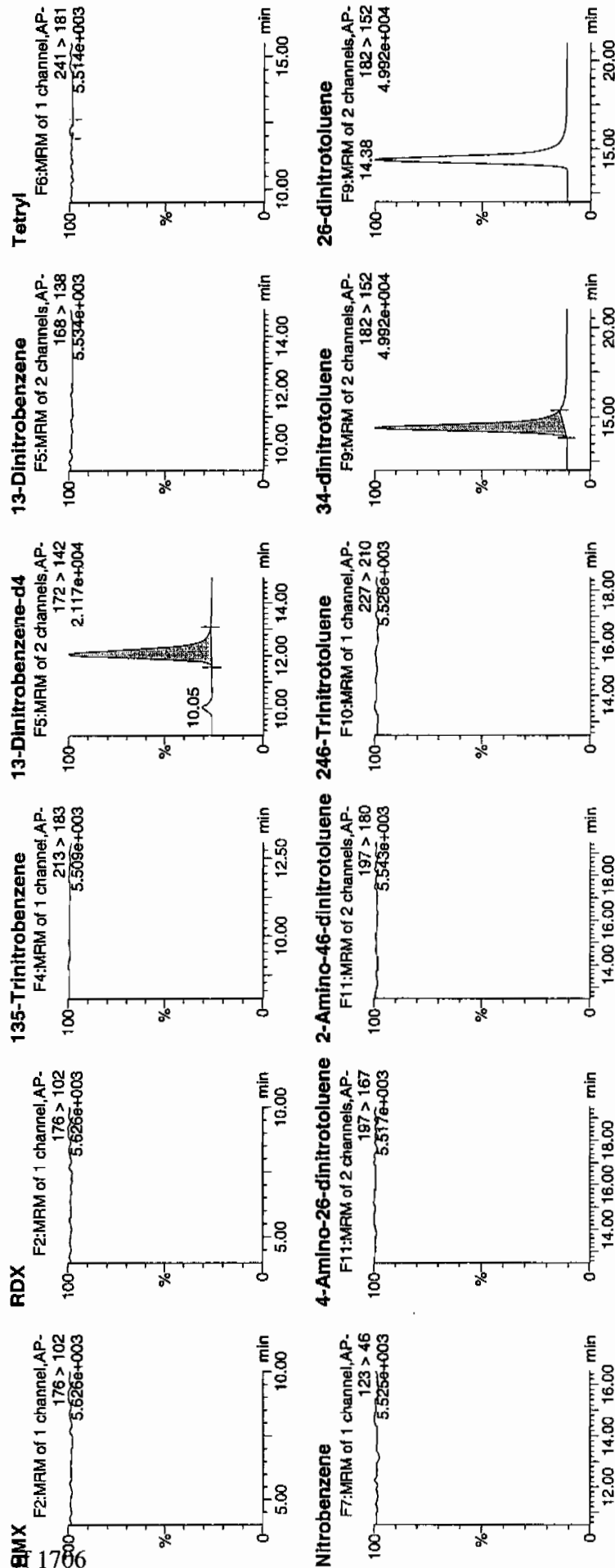
Time: 22:30:53

ID: 248197011

Vial: 2:8,B

447P
3/15/10

Lawrence Soto



ARM 03/15/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7425

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197011

Sample Amount 2

Moisture: 22.1

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160172.wiff

Date Analyzed: 18-MAR-10 05:03

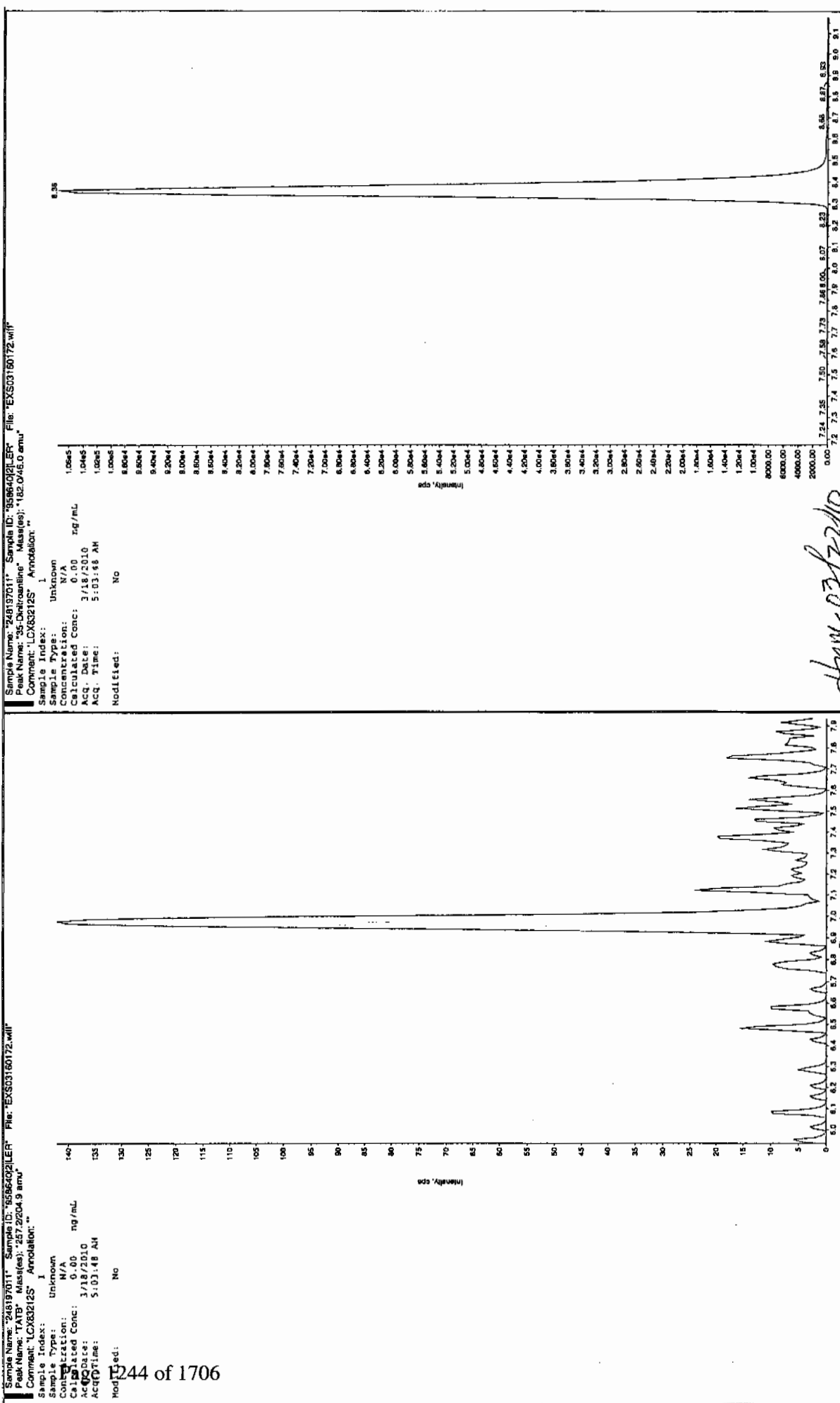
Units: ug/kg

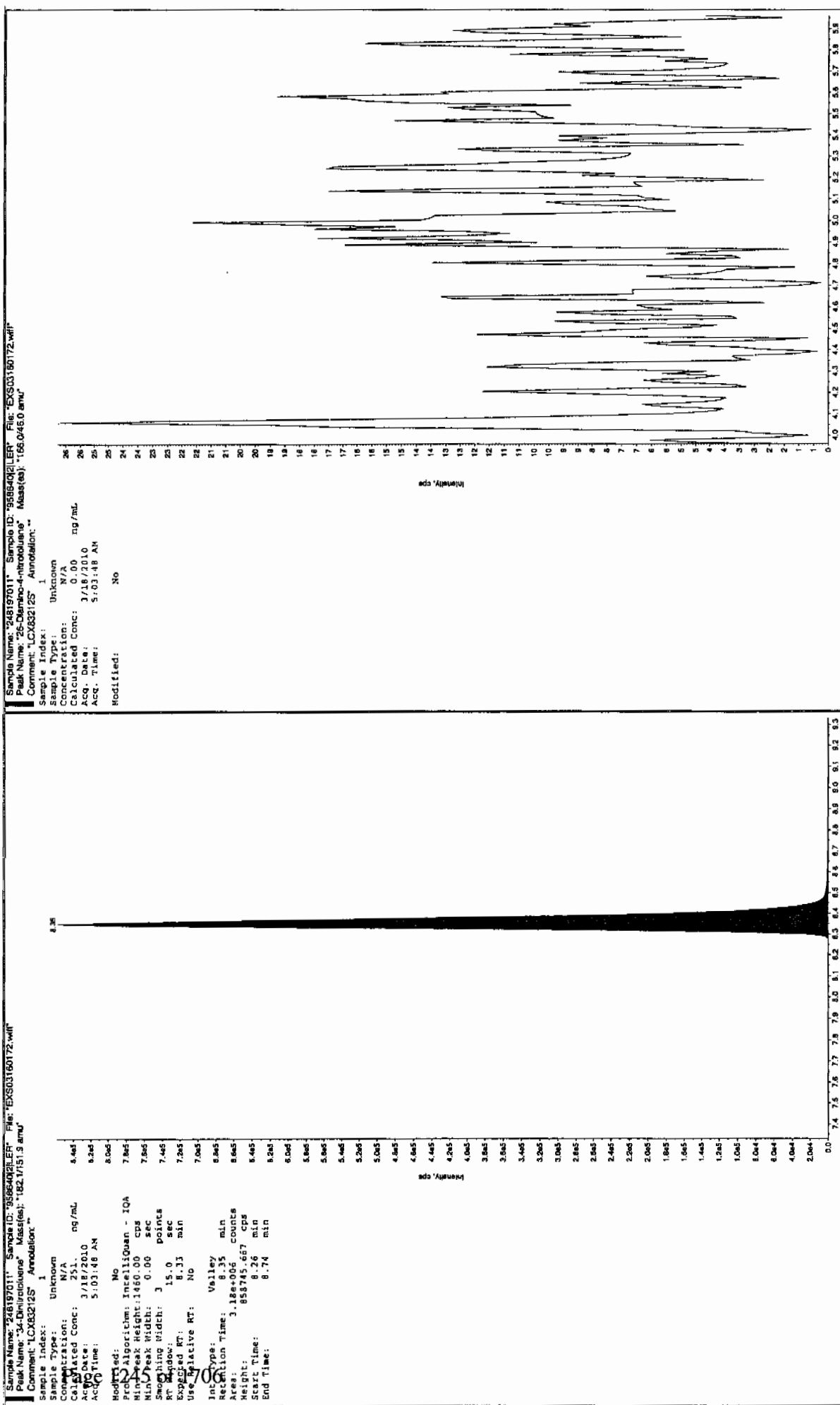
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

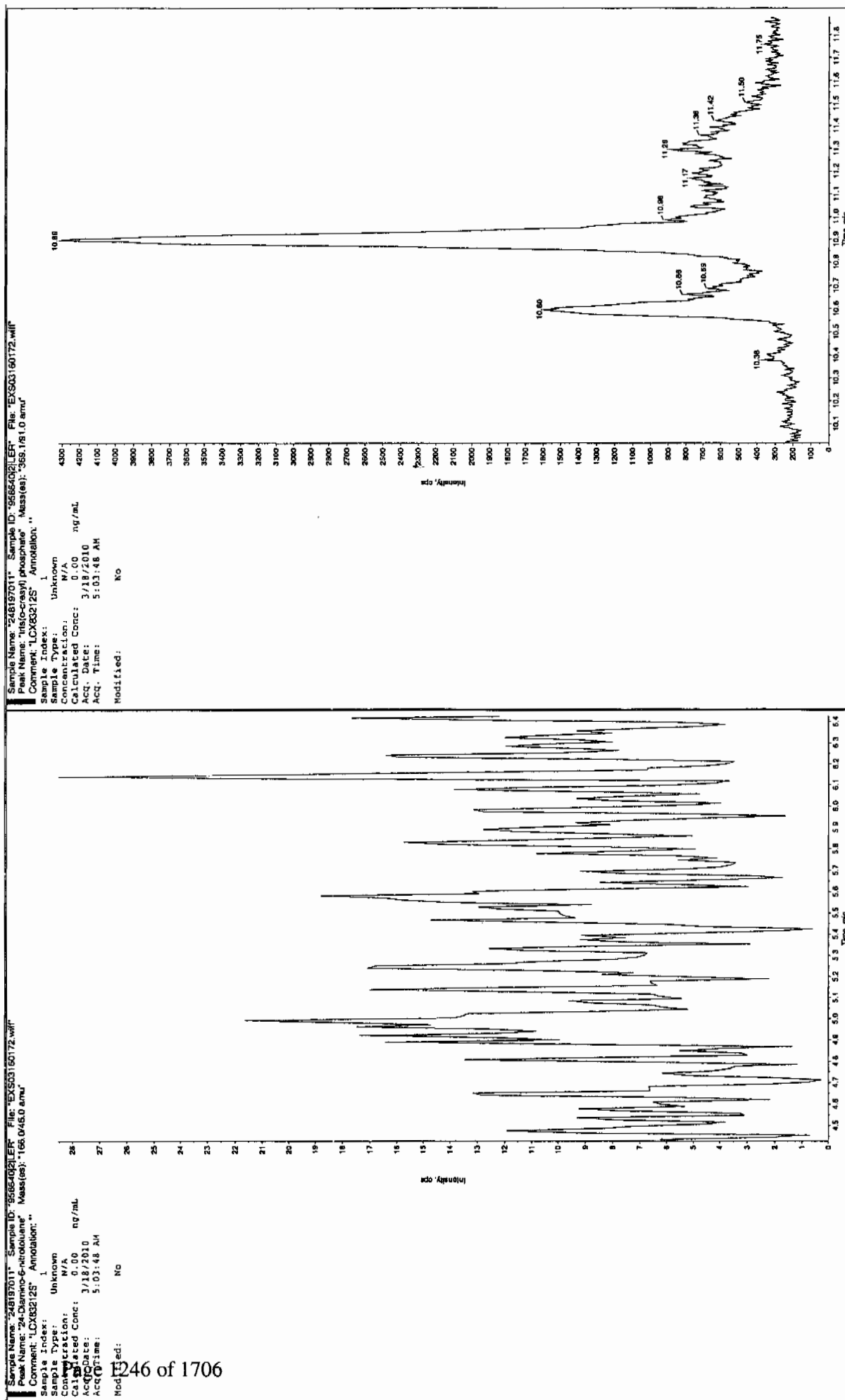
*Concentration =

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

Jan 31/9/10







1246 of 1706

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323078a

Date Analyzed: 24-MAR-10 23:00

Units: ug/kg

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

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323078a

Date: 24-Mar-2010

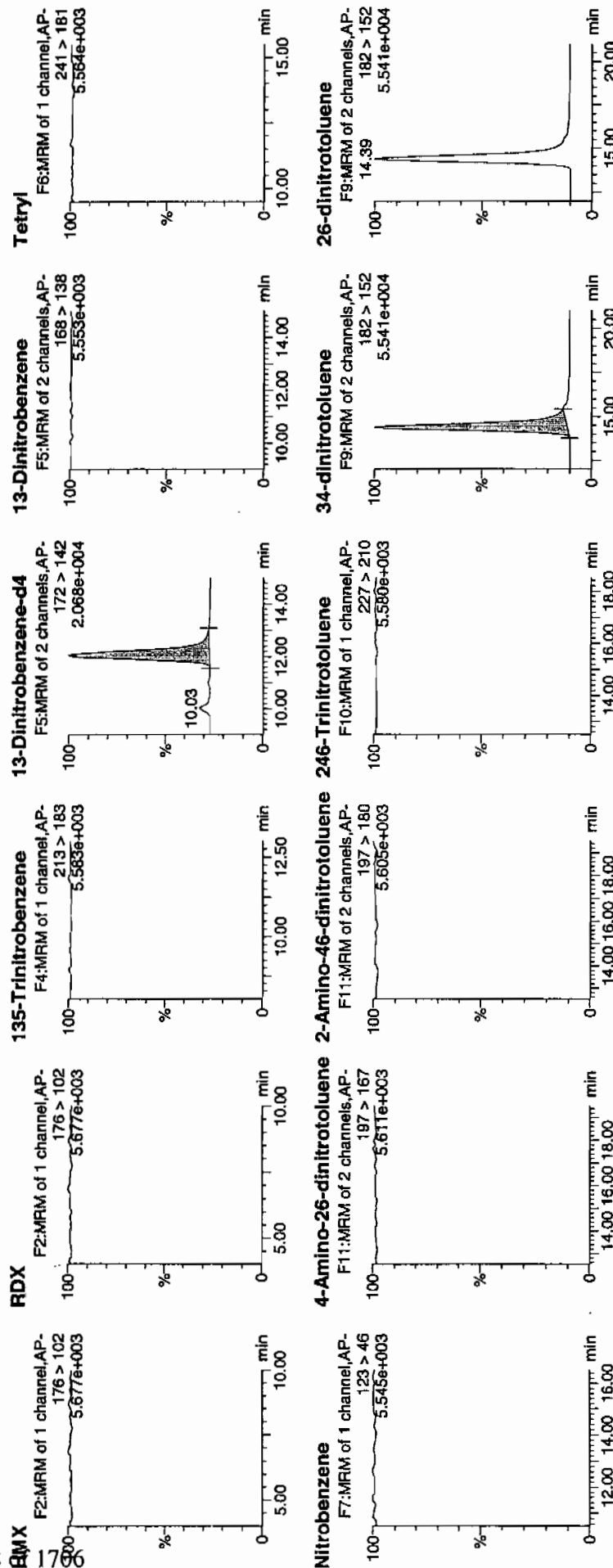
Time: 23:00:24

ID: 248197012

Val: 2:8,C

1477
3/25/10

WAV 958640 | 21

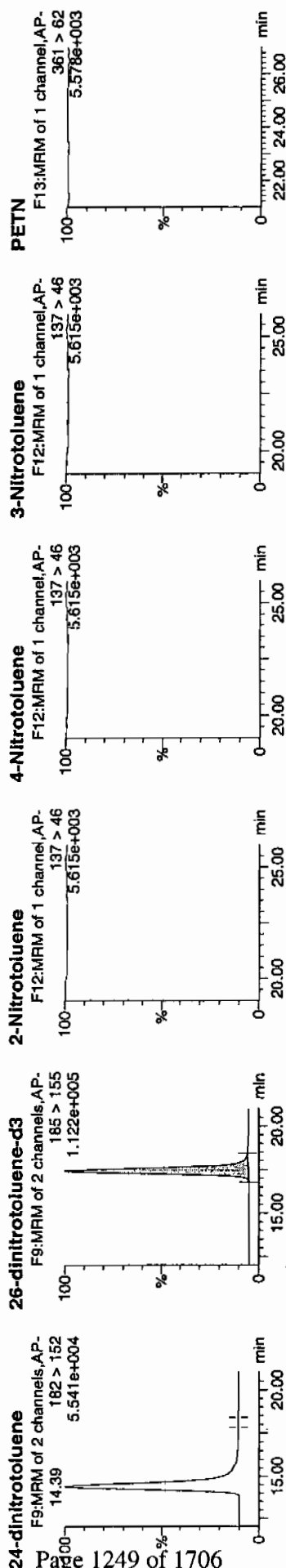


Handwritten signature/initials

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

[illegible]

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7429

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197012

Sample Amount 2

Moisture: 29.7

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160173.wiff

Date Analyzed: 18-MAR-10 05:19

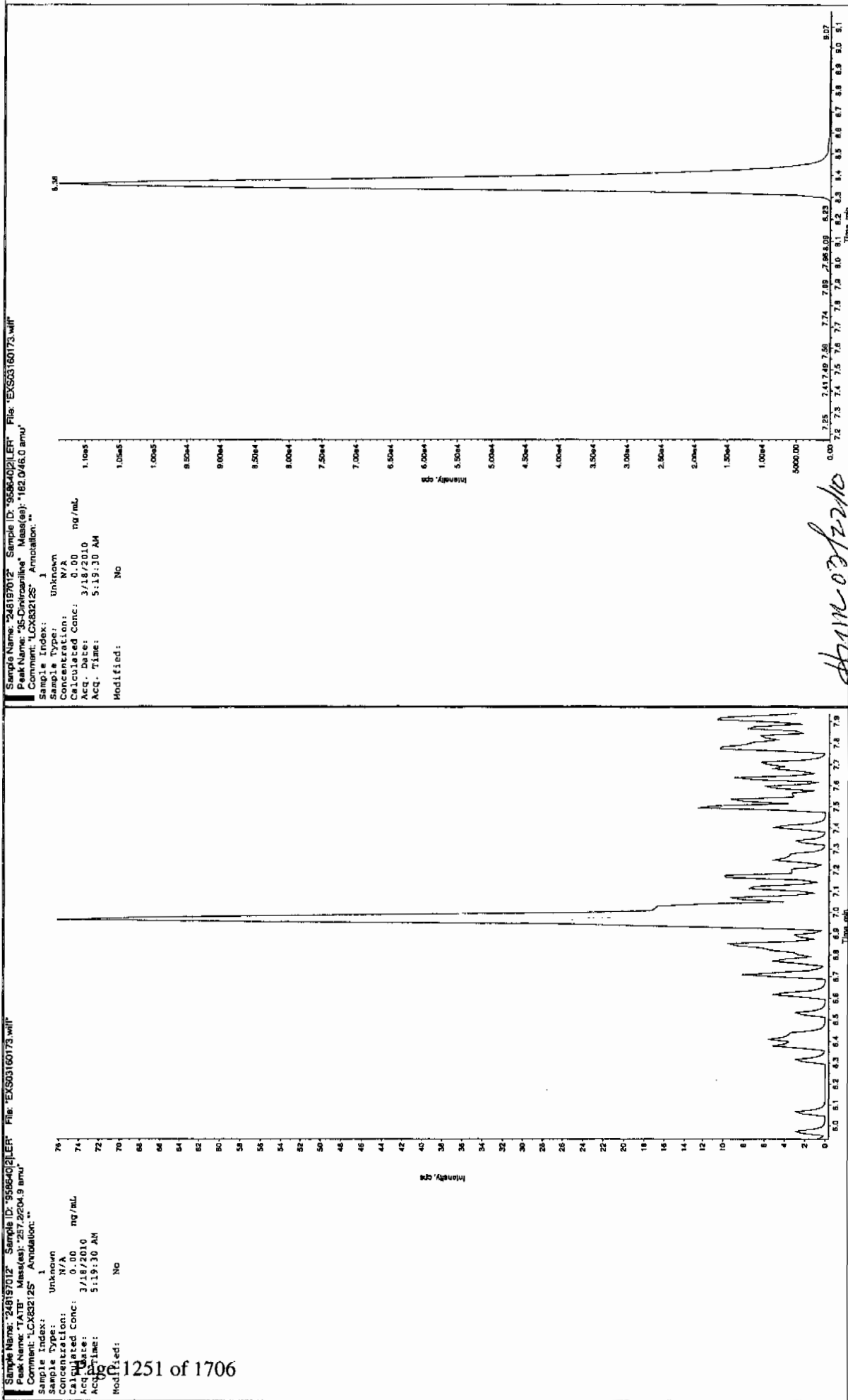
Units: ug/kg

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

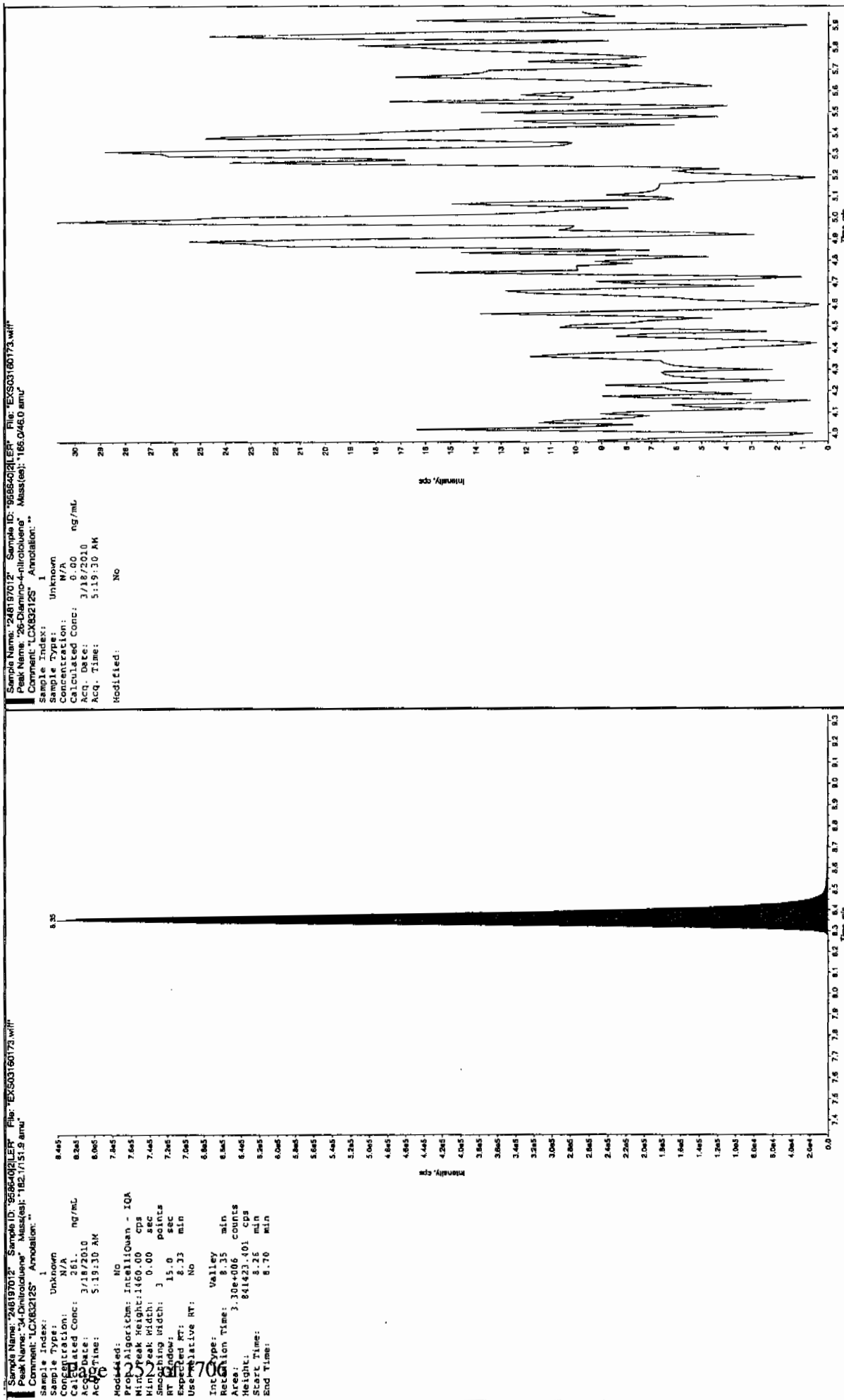
*Concentration =

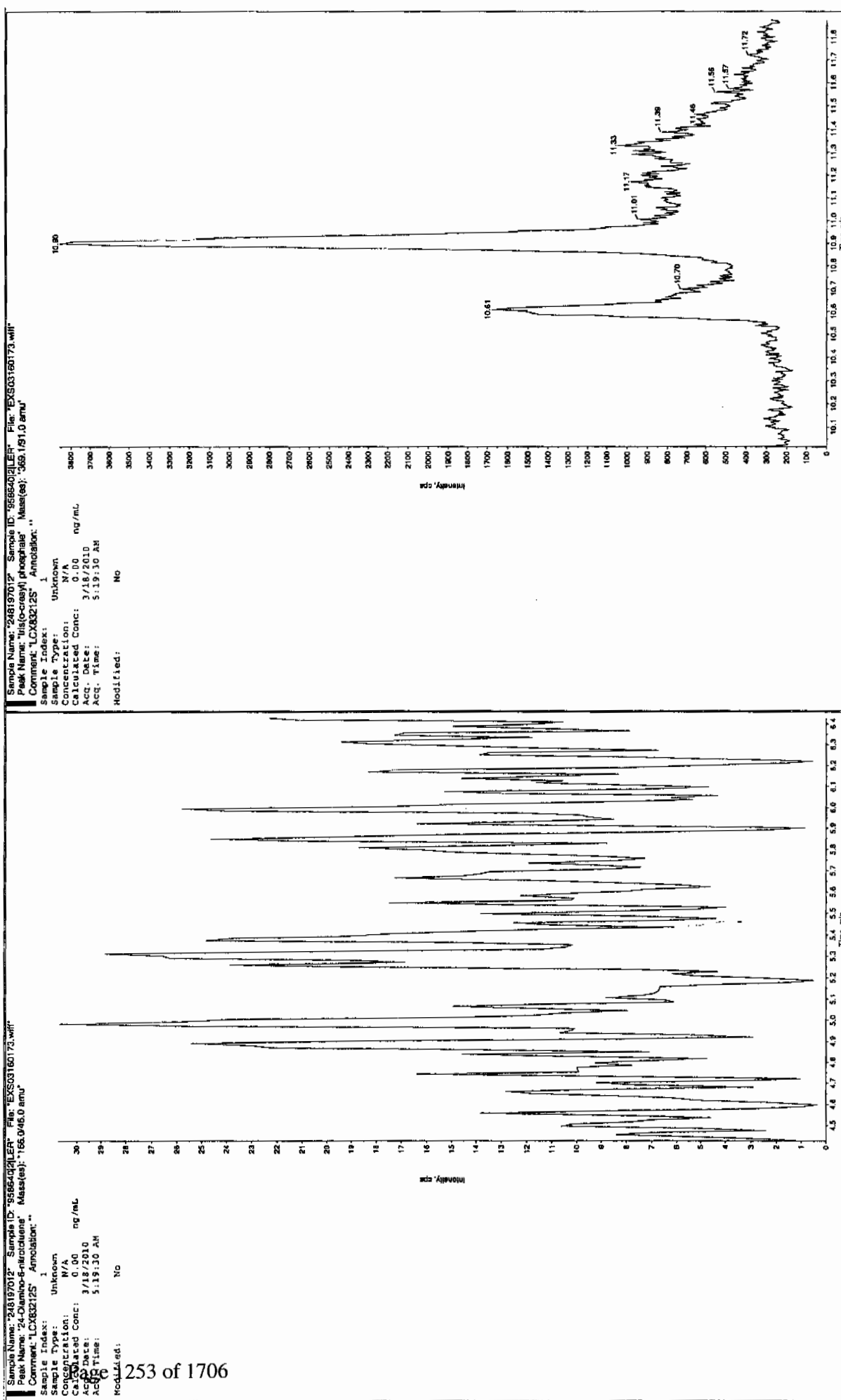
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

See 3/19/10



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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323079a

Date Analyzed: 24-MAR-10 23:29

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323079a

Date: 24-Mar-2010

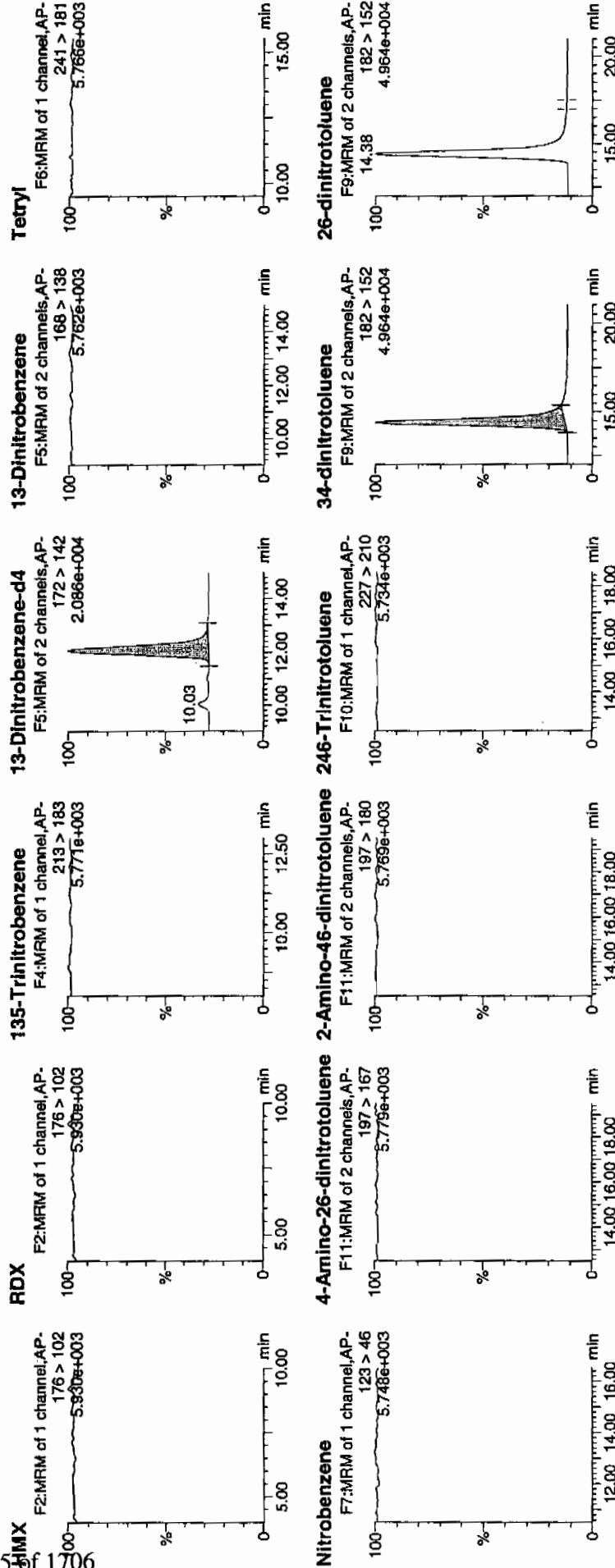
Time: 23:29:55

ID: 248197013

Vial: 2:8,D

NOT
3/25/10

LAU/958640 | 21

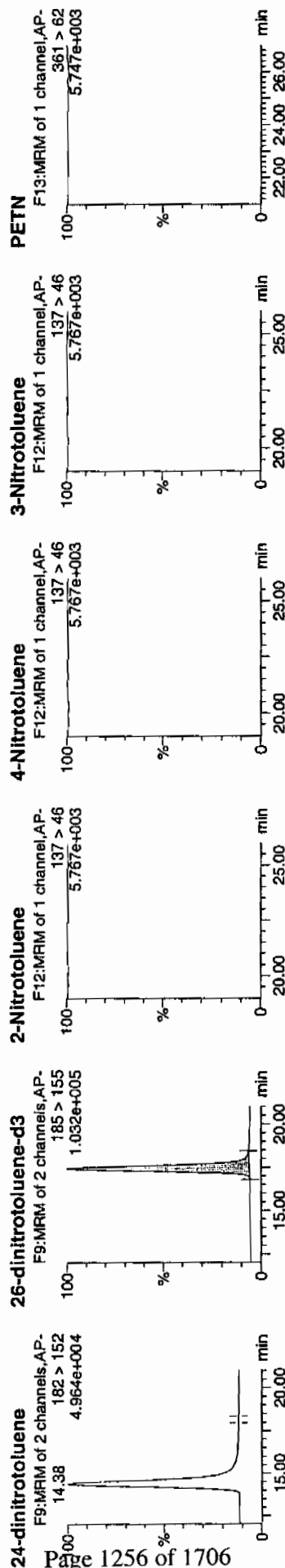


Amw
03/30/10

Printed: Thu Mar 25 10:04:08 2010, Page 60 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod	Date	Time	Conc	Unit	%Rec	%Dev	S/N
248197013	HMX	176 > 102			6040.187											
248197013	RDX	176 > 102			6040.187											
248197013	135-Trinitrobenzene	213 > 183			6040.187											
248197013	13-Dinitrobenzene-d4	172 > 142	12.07	6040.187		6040.187	6040.187	bb				548.6817	109.7	9.7	787.8	
248197013	13-Dinitrobenzene	168 > 138			6040.187											
248197013	Tetryl	241 > 181			6040.187											
248197013	Nitrobenzene	123 > 46			6040.187											
248197013	4-Amino-26-dinitrotoluene	197 > 167			38211.148											
248197013	2-Amino-46-dinitrotoluene	197 > 180			38211.148											
248197013	246-Trinitrotoluene	227 > 210			38211.148											
248197013	34-dinitrotoluene	182 > 152	14.38	20575.979	38211.148	20575.979	269.241	bb				254.2683	101.7	1.7	1081.3	
248197013	26-dinitrotoluene	182 > 152			38211.148											
248197013	24-dinitrotoluene	182 > 152			38211.148											
248197013	26-dinitrotoluene-d3	185 > 155	17.42	38211.148		38211.148	38211.148	bb				554.9014	111.0	11.0	3693.1	
248197013	2-Nitrotoluene	137 > 46			38211.148											
248197013	4-Nitrotoluene	137 > 46			38211.148											
248197013	3-Nitrotoluene	137 > 46			38211.148											
248197013	PETN	361 > 62			38211.148											

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7433

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 248197013

Sample Amount 2

Moisture: 28.6

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160174.wiff

Date Analyzed: 18-MAR-10 05:35

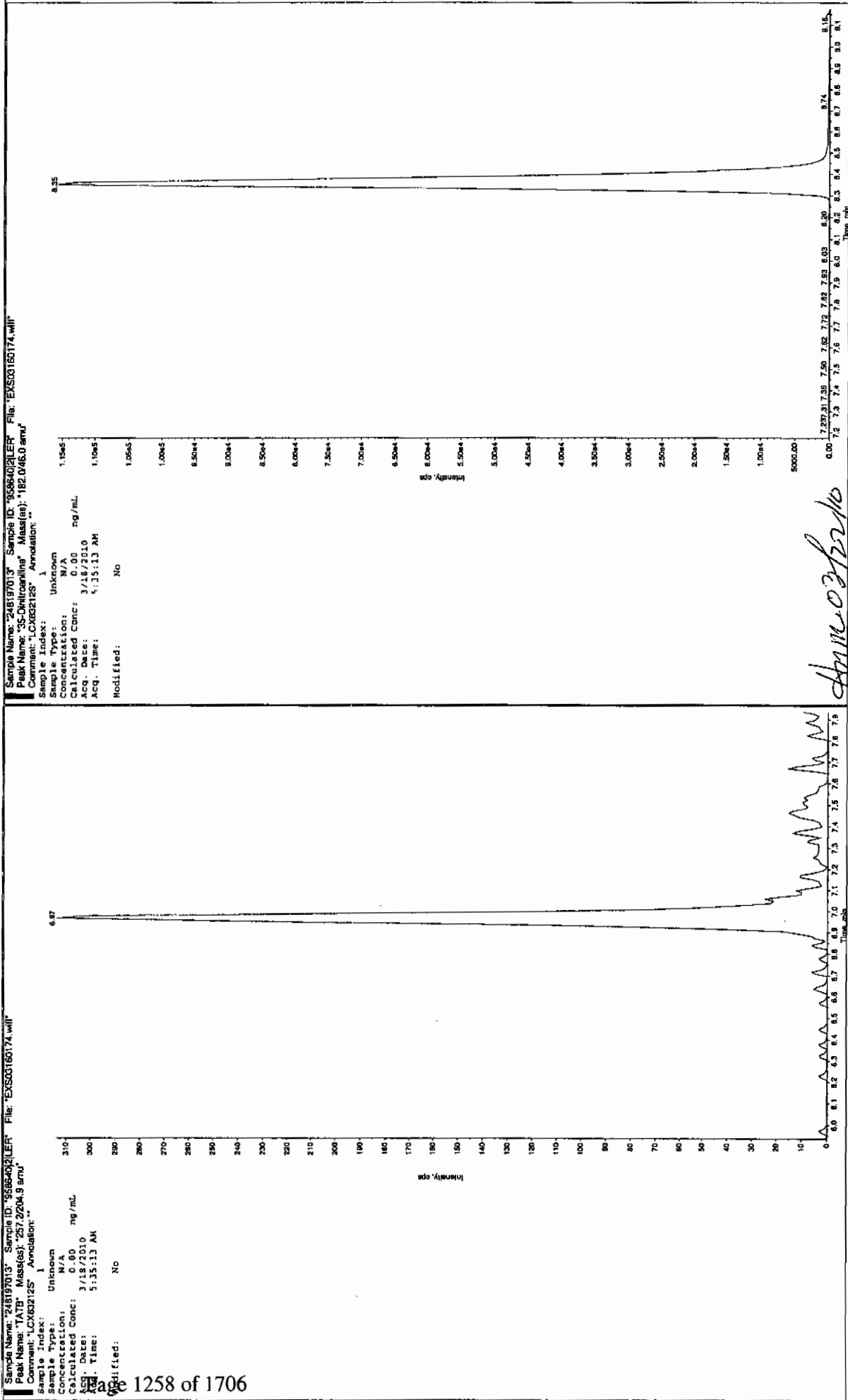
Units: ug/kg

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

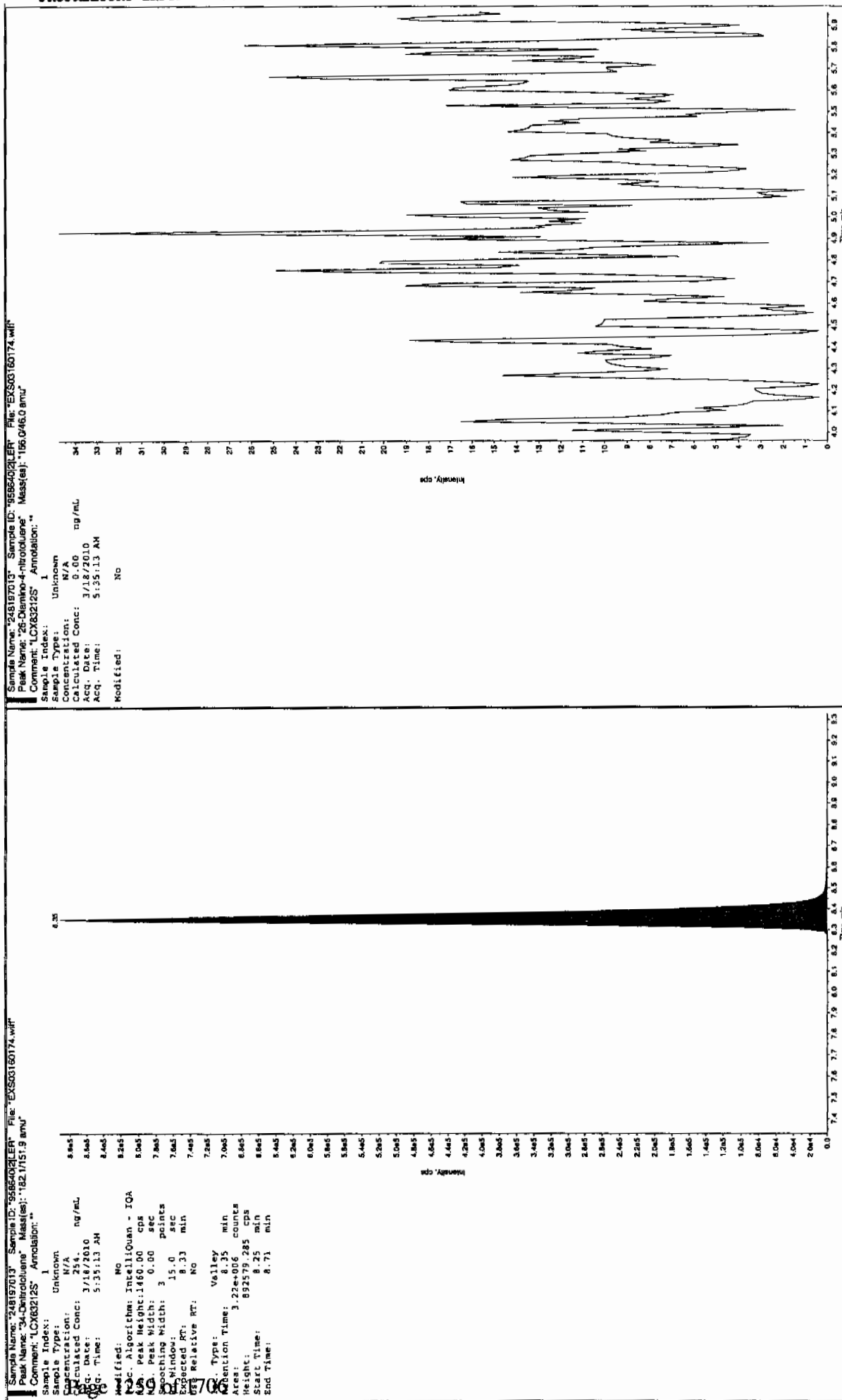
*Concentration =

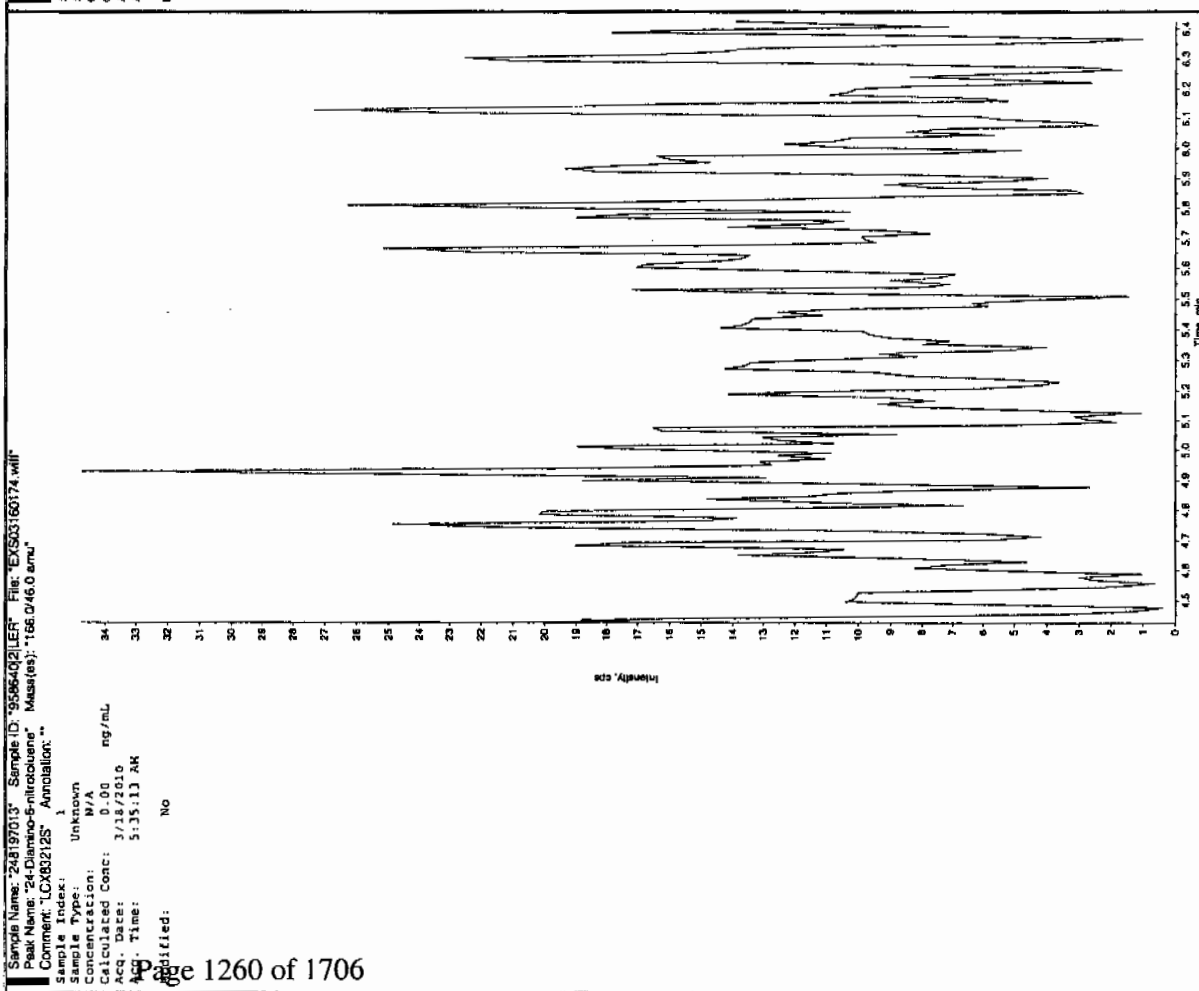
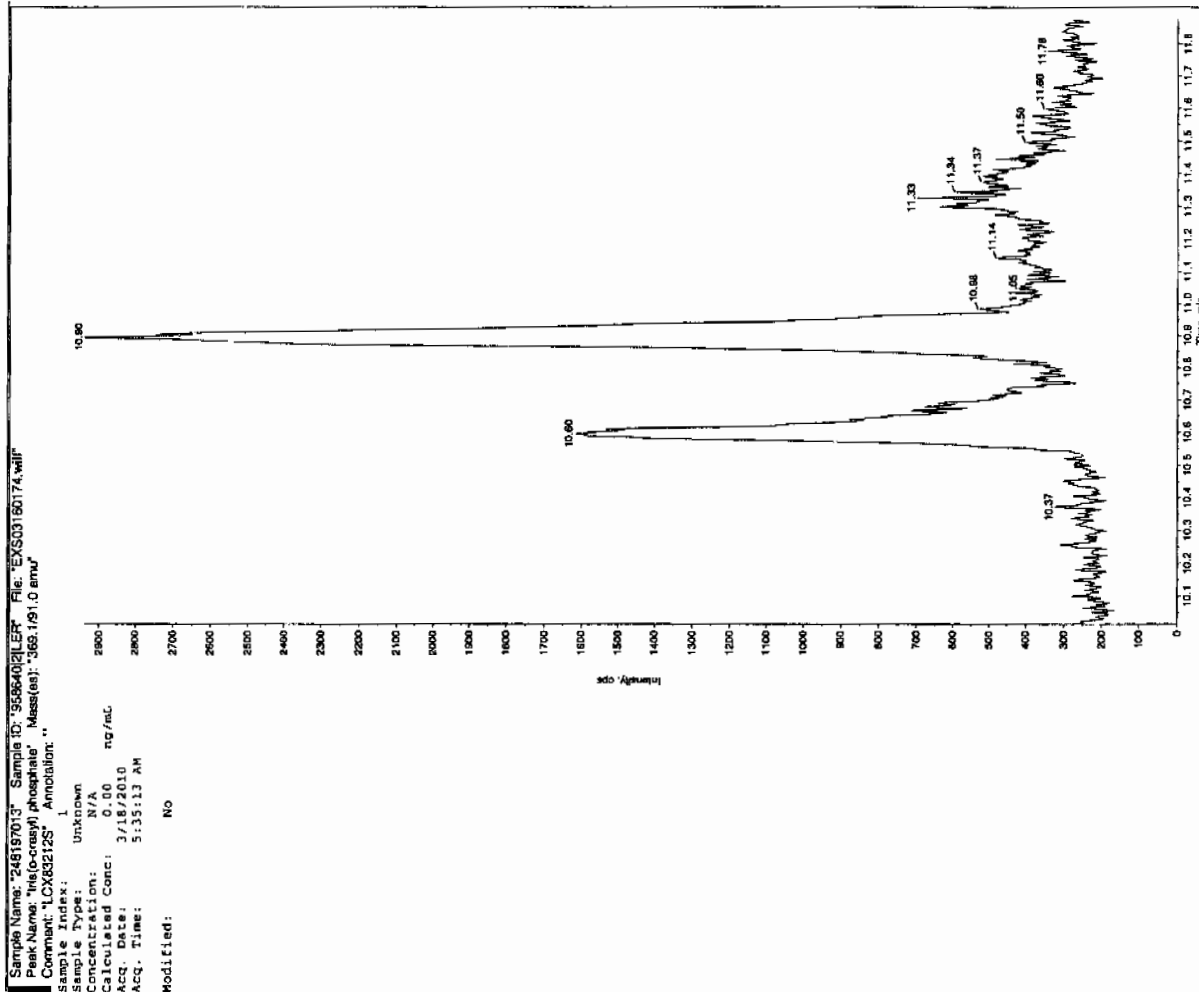
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 21/10



Jan 21/10





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
MX	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2121

Lab Code: GEL

Run Date: 16-MAR-10 23-MAR-10 26-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 QDS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a			
1,3,5-Trinitrobenzene	5.032	4.994	4.537	4.6	4.618	4.575	4.726	4.748	
1,3-Dinitrobenzene-d4	11.754	12.906	11.01	10.6	10.117	9.664	11.009	10.69	
2,4,6-Trinitrotoluene	.424	.368	.38	.453	.443	.394	0.410	8.493	
2,4-Dinitrotoluene	.262	.293	.273	.265	.282	.289	0.277	4.587	
2,6-Dinitrotoluene	1.112	1.205	1.106	1.163	1.182	1.174	1.157	3.448	
2,6-Dinitrotoluene-d3	82.805	73.801	67.998	67.968	62.879	57.717	68.861	12.666	
2-Amino-4,6-dinitrotoluene	.508	.507	.537	.569	.587	.577	0.548	6.473	
3,4-Dinitrotoluene	.915	.995	1.13	1.083	1.133	1.097	1.059	8.15	
4-Amino-2,6-dinitrotoluene	.347	.327	.35	.36	.369	.368	0.354	4.504	
HMX	5.311	4.69	5.261	6.242	6.079	5.497	5.513	10.373	
Nitrobenzene	.686	.654	.672	.653	.651	.615	0.655	3.64	
RDX	3.229	2.859	3.253	3.567	3.545	3.415	3.311	7.936	
Tetryl	1.129	1.002	1.143	1.22	1.115	1.273	1.147	8.152	
m-Dinitrobenzene	1.371	1.208	1.328	1.336	1.345	1.381	1.328	4.687	
m-Nitrotoluene	.051	.048	.054	.052	.048	.049	0.050	4.981	
o-Nitrotoluene	.076	.089	.078	.08	.079	.082	0.081	5.666	
p-Nitrotoluene	.03	.046	.039	.039	.039	.04	0.039	13.369	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2121

Lab Code: GEL

Run Date: 16-MAR-10.23-MAR-10.26-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

	1	2	3	4	5	6	Slope	Intercept	COD	Q
Calibration Level:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a				
Data File:										
Parname										
PETN	2318.77	4444.01	14597.9	26021	45749.6	53868.3	.909	16.24	.9989	

Linear fit: $Y=mx +b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

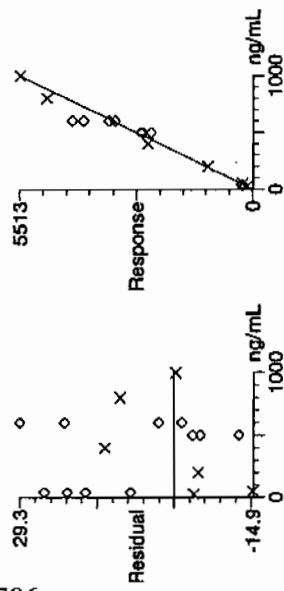
* Values outside of QC Limit

Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

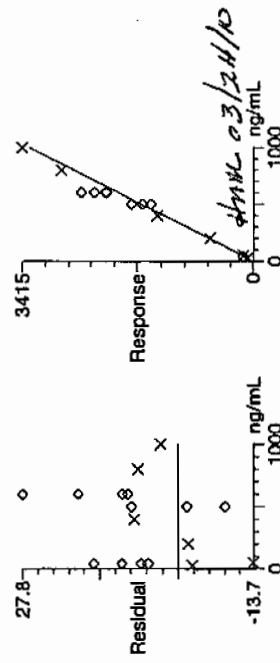
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Method: C:\MASSLYNX\New_Exp\PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010
Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

Compound name: HMX
Response Factor: 5.51311
RRF SD: 0.571885, % Relative SD: 10.3732
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



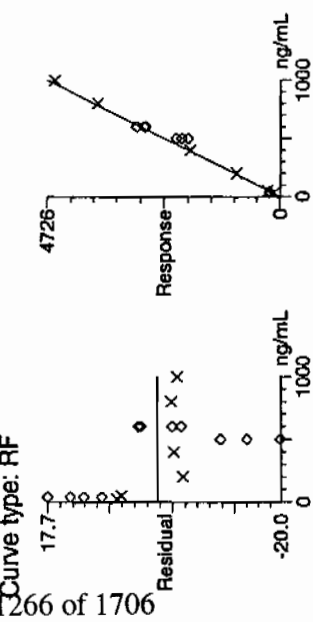
Compound name: RDX
Response Factor: 3.31129
RRF SD: 0.26278, % Relative SD: 7.93586
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



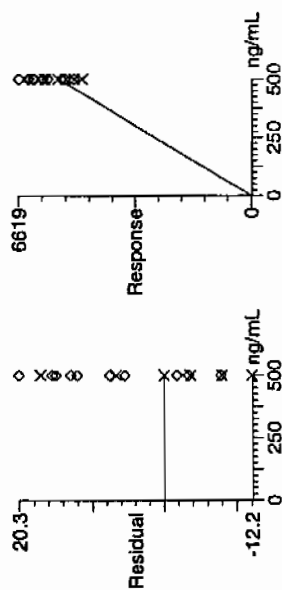
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 135-Trinitrobenzene
Response Factor: 4.7262
RRF SD: 0.224421, % Relative SD: 4.74845
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 13-Dinitrobenzene-d4
Response Factor: 11.0085
RRF SD: 1.17683, % Relative SD: 10.6902
Response type: External Std, Area
Curve type: RF



Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV032310expA.qld, Time: Wed Mar 24 09:29:41 2010

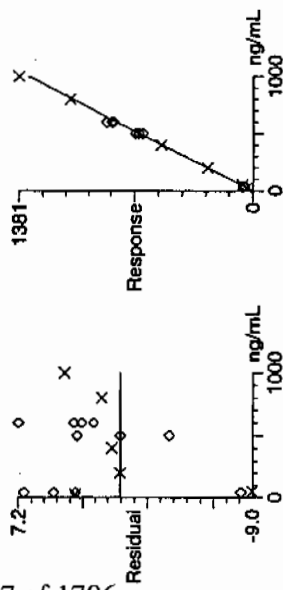
Compound name: 13-Dinitrobenzene

Response Factor: 1.32795

RRF SD: 0.0622466, % Relative SD: 4.68744

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



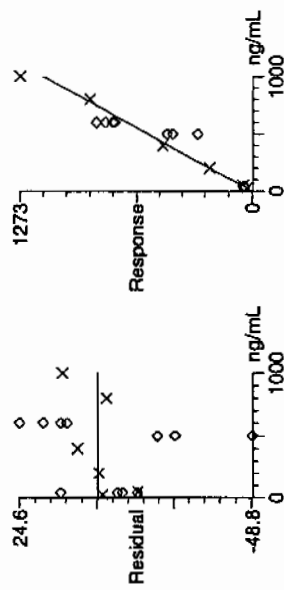
Compound name: Tetral

Response Factor: 1.14683

RRF SD: 0.0934919, % Relative SD: 8.15221

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

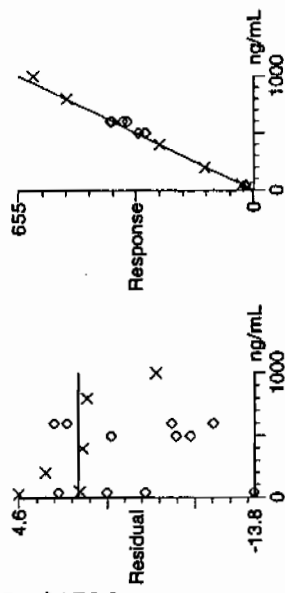
Curve type: RF



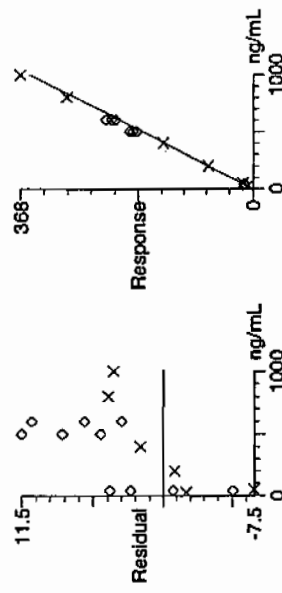
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: Nitrobenzene
Response Factor: 0.655153
RRF SD: 0.0238446, % Relative SD: 3.63954
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.353375
RRF SD: 0.0159163, % Relative SD: 4.50407
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

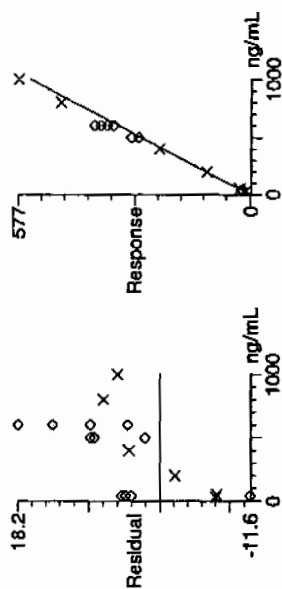


Printed: Wed Mar 24 09:32:17 2010, Page 5 of 9

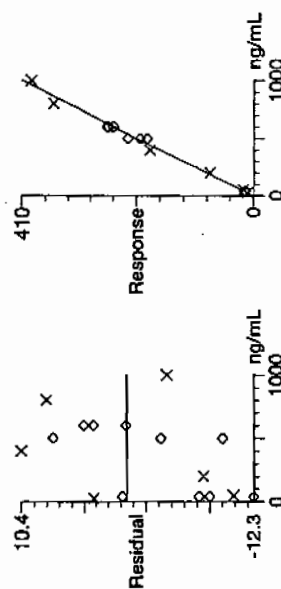
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.547585
RRF SD: 0.0354456, % Relative SD: 6.47307
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 246-Trinitrotoluene
Response Factor: 0.410071
RRF SD: 0.0348258, % Relative SD: 8.49263
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



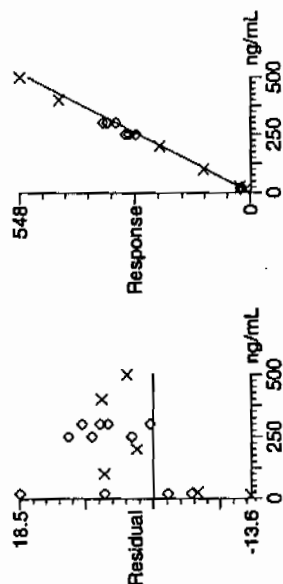
Printed: Wed Mar 24 09:32:17 2010, Page 6 of 9

Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

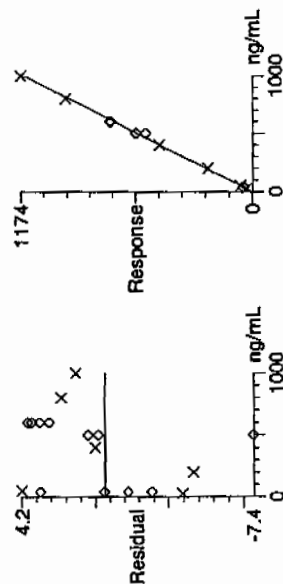
Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Page 1270 of 1706

Compound name: 34-dinitrotoluene
Response Factor: 1.05888
RRF SD: 0.0862978, % Relative SD: 8.14988
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



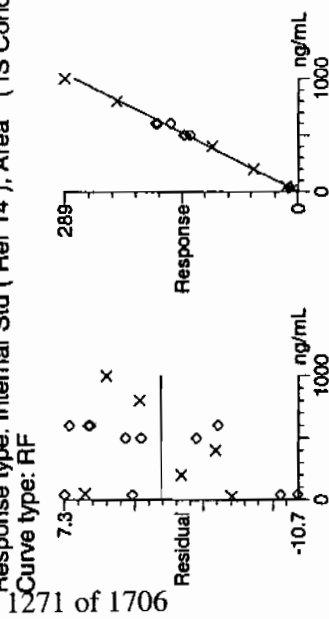
Compound name: 26-dinitrotoluene
Response Factor: 1.15701
RRF SD: 0.0398889, % Relative SD: 3.44758
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



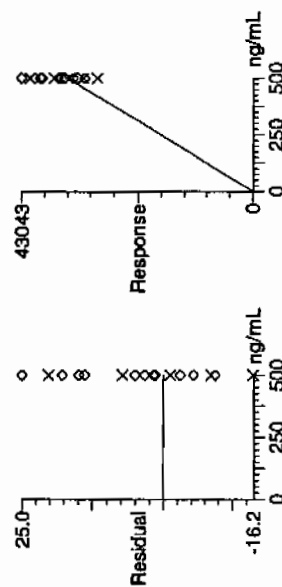
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.277495
RRF SD: 0.0127293, % Relative SD: 4.58723
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

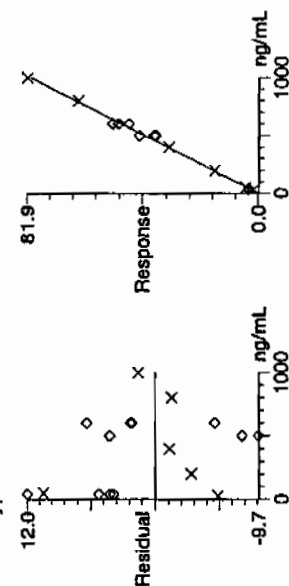


Compound name: 26-dinitrotoluene-d3
Response Factor: 68.8611
RRF SD: 8.72211, % Relative SD: 12.6662
Response type: External Std, Area
Curve type: RF

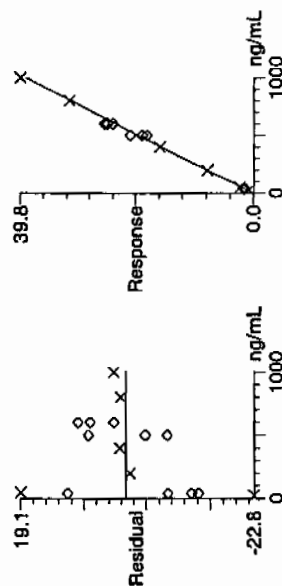


Dataset: C:\WASSLYN\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0806432
RRF SD: 0.00456922, % Relative SD: 5.66596
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



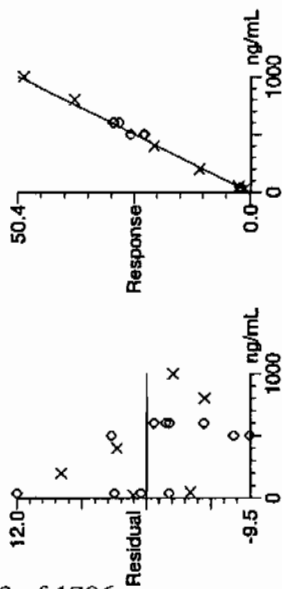
Compound name: 4-Nitrotoluene
Response Factor: 0.0389409
RRF SD: 0.00520599, % Relative SD: 13.369
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



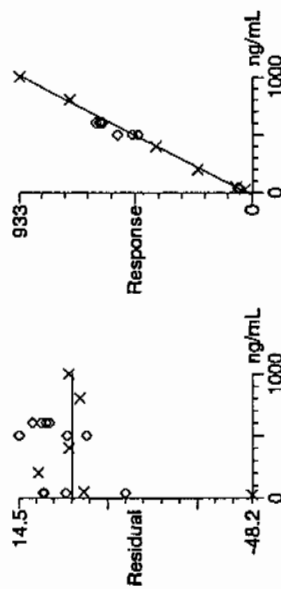
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0504212
RRF SD: 0.00251151, % Relative SD: 4.98107
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: $r = 0.999467$, $r^2 = 0.998933$
Calibration curve: $0.908775 * x + 16.2395$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEI

GEL Sample ID: WXXICV

GEL Data File EXP0323010a

Analysis Date: 23-MAR-10 13:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	585.721	98	
1,3-Dinitrobenzene-d4	500	460.269	92	
2,4,6-Trinitrotoluene	600	600.545	100	
2,4-Dinitrotoluene	600	572.778	95	
2,6-Dinitrotoluene	600	623.33	104	
2,6-Dinitrotoluene-d3	500	452.986	91	
2-Amino-4,6-dinitrotoluene	600	624.798	104	
3,4-Dinitrotoluene	300	301.181	100	
4-Amino-2,6-dinitrotoluene	600	620.044	103	
HMX	600	591.583	99	
Nitrobenzene	600	611.463	102	
PETN	600	650.548	108	
RDX	600	659.349	110	
Tetryl	600	669.49	112	
m-Dinitrobenzene	600	616.682	103	
m-Nitrotoluene	600	589.179	98	
o-Nitrotoluene	600	638.057	106	
p-Nitrotoluene	600	638.597	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323010a

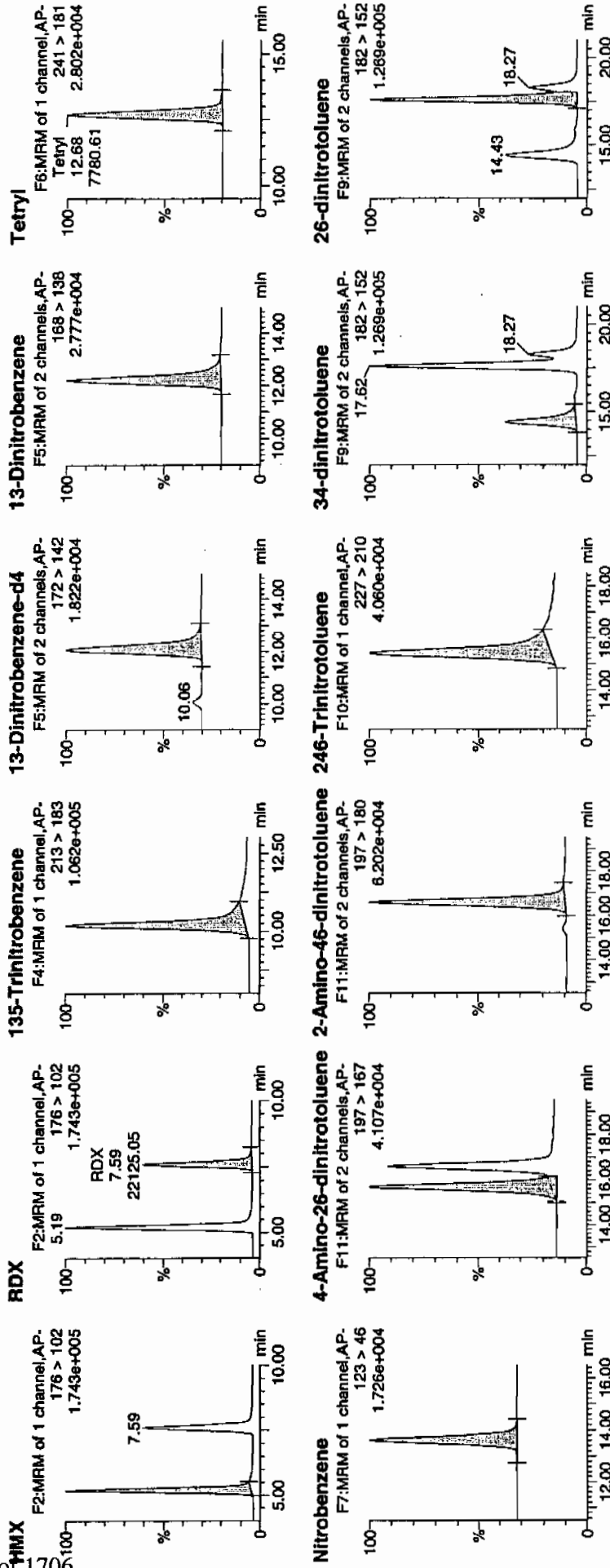
Date: 23-Mar-2010

Time: 13:34:21

ID: WXX100323-07ICV

Vial: 1:1,B

11/11/10

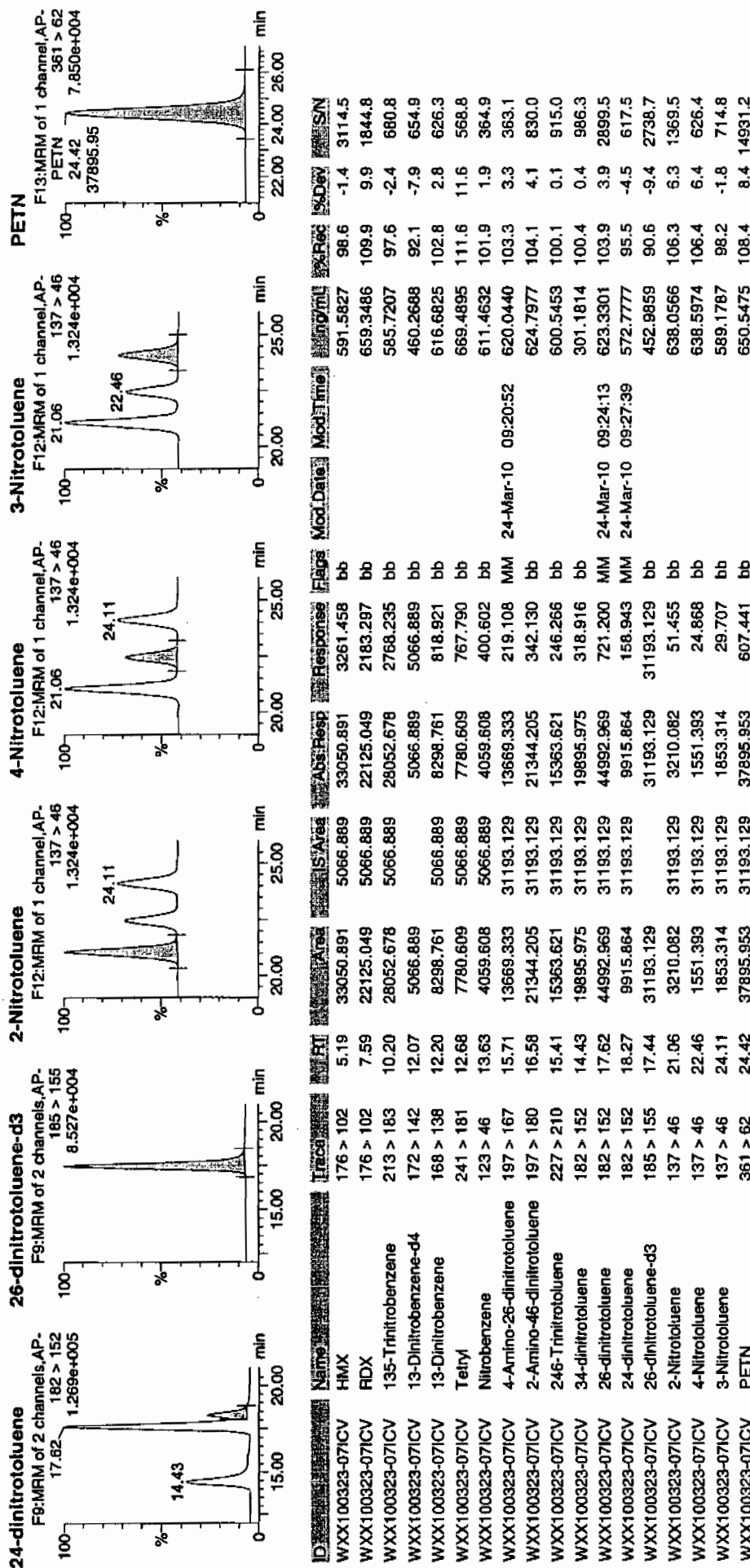


Handwritten signature

Printed: Wed Mar 24 09:32:17 2010, Page 20 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1334
 Standard Number: WXX100323-07ICV
 Data File: EXP0323010a

HMX	98.6
RDX	109.9
135-TNB	97.6
13-DNB	102.8
Tetryl	111.6
Nitrobenzene	101.9
4A-26-DNT	103.3
2A-46-DNT	104.1
246-TNT	100.1
34-DNT(surr)	100.4
26-DNT	103.9
24-DNT	95.5
2-NT	106.3
4-NT	106.4
3-NT	98.2
PETN	108.4

Handwritten: 1007
3/24/10

Total 1649.0

Average 103.1

Handwritten: HMM 03/23/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2121

Lab Code: GEL

Run Date: 16-MAR-10 23-MAR-10 26-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:		1	2	3	4	5	6	Ave RF	RSD	Q
Data File:		EXP0326003a	EXP0326004a	EXP0326005a	EXP0326006a	EXP0326007a	EXP0326008a			
Parname										
1,3,5-Trinitrobenzene		5.153	4.696	4.191	4.102	4.113	4.104	4.393	9.958	
1,3-Dinitrobenzene-d4		13.759	12.461	11.644	12.183	11.945	11.415	12.235	6.82	
2,4,6-Trinitrotoluene		.309	.313	.313	.321	.342	.335	0.322	4.197	
2,4-Dinitrotoluene		.3	.264	.288	.302	.304	.318	0.296	6.268	
2,6-Dinitrotoluene		1.122	1.126	1.138	1.137	1.176	1.164	1.144	1.874	
2,6-Dinitrotoluene-d3		81.936	74.97	71.859	74.068	71.742	65.946	73.420	7.115	
2-Amino-4,6-dinitrotoluene		.512	.517	.511	.541	.579	.59	0.542	6.497	
3,4-Dinitrotoluene		1.042	1.016	1.039	1.03	1.094	1.119	1.057	3.803	
4-Amino-2,6-dinitrotoluene		.335	.346	.353	.372	.375	.387	0.361	5.49	
HMX		3.747	4.083	4.192	4.118	4.21	4.068	4.070	4.135	
Nitrobenzene		.556	.662	.612	.599	.607	.587	0.604	5.783	
RDX		3.028	2.628	3.066	2.999	3.174	3.062	2.993	6.292	
Tetryl		1.276	1.143	1.091	1.068	1.015	1.095	1.115	8.025	
m-Dinitrobenzene		1.288	1.4	1.346	1.33	1.319	1.316	1.333	2.846	
m-Nitrotoluene		.061	.047	.05	.046	.047	.048	0.050	10.805	
o-Nitrotoluene		.075	.079	.073	.073	.075	.075	0.075	2.741	
p-Nitrotoluene		.046	.037	.039	.036	.037	.038	0.039	9.274	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2121

Lab Code: GEL

Run Date: 16-MAR-10.23-MAR-10.26-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Calibration Level:											
Data File:	EXP0326003a	EXP0326004a	EXP0326005a	EXP0326006a	EXP0326007a	EXP0326008a					
Parname:											
PETN	3881.38	6983.93	24078.2	43389.9	71210.3	80631.3	1.527	-0003435	21.839	.9983	

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)

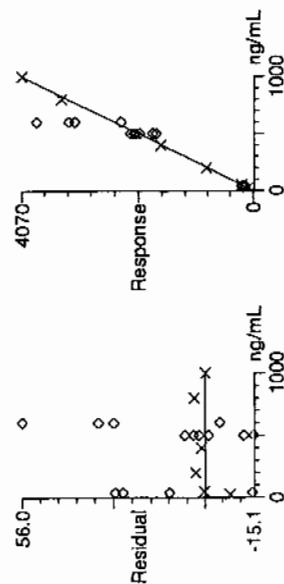
* Values outside of QC Limit

Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

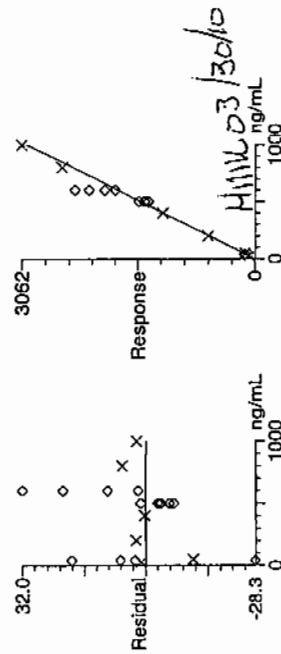
Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032610expa.mdb, Time: Sat Mar 27 11:54:14 2010
Calibration: Untitled, Time: Sat Mar 27 12:12:14 2010

Compound name: HMX
Response Factor: 4.06966
RRF SD: 0.168281, % Relative SD: 4.13501
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



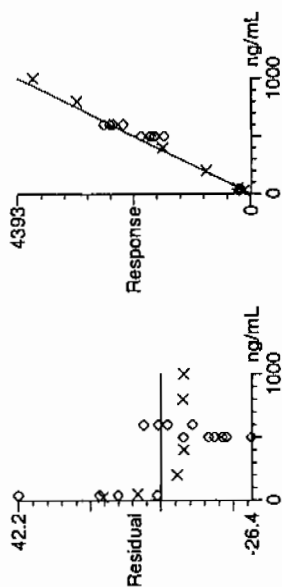
Compound name: RDX
Response Factor: 2.99284
RRF SD: 0.188296, % Relative SD: 6.29154
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



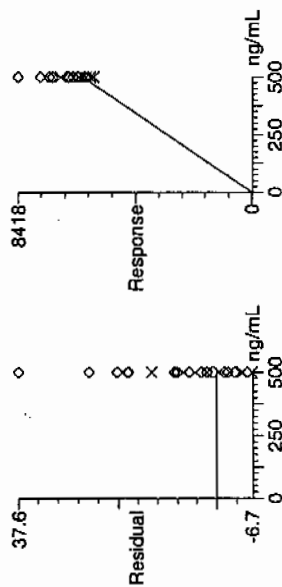
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 135-Trinitrobenzene
 Response Factor: 4.39307
 RRF SD: 0.437472, % Relative SD: 9.95823
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



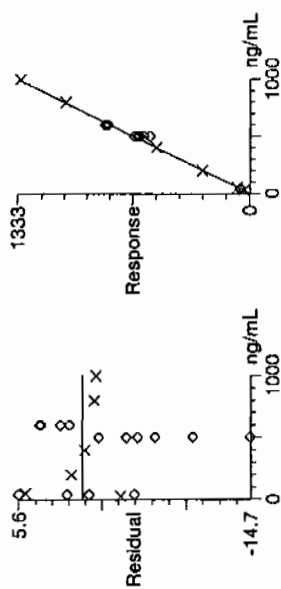
Compound name: 13-Dinitrobenzene-d4
 Response Factor: 12.2348
 RRF SD: 0.834472, % Relative SD: 6.82049
 Response type: External Std, Area
 Curve type: RF



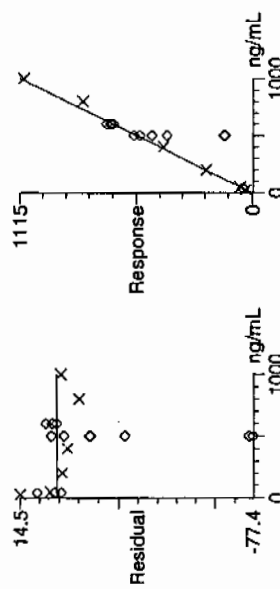
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.33318
RRF SD: 0.037939, % Relative SD: 2.84576
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



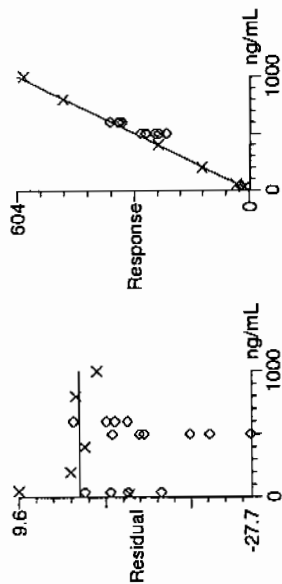
Compound name: Tetryl
Response Factor: 1.11477
RRF SD: 0.0894587, % Relative SD: 8.02487
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



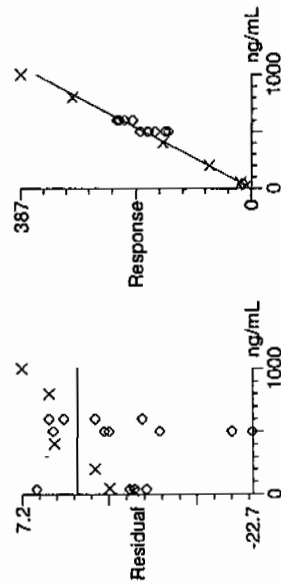
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: Nitrobenzene
Response Factor: 0.603553
RRF SD: 0.0349025, % Relative SD: 5.78284
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



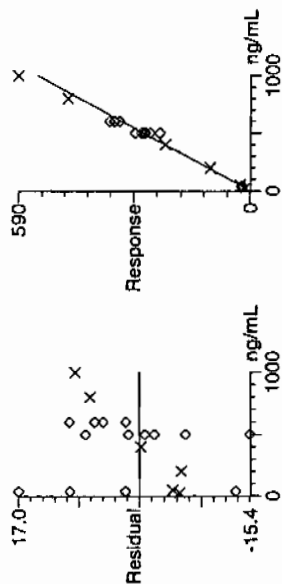
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.361323
RRF SD: 0.0198354, % Relative SD: 5.48967
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



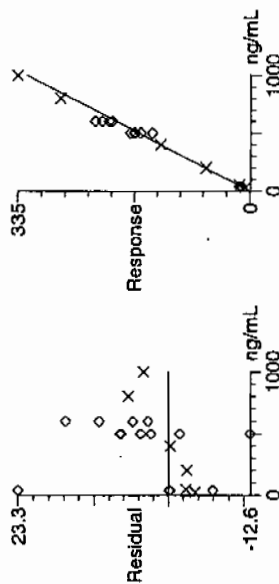
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.541633
 RRF SD: 0.03519, % Relative SD: 6.49701
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



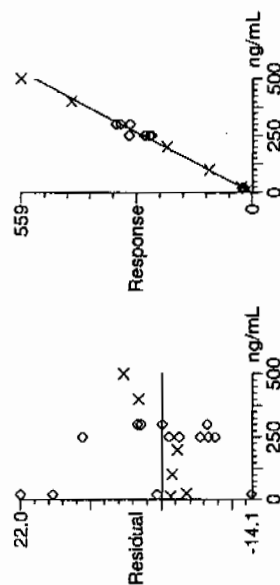
Compound name: 246-Trinitrotoluene
 Response Factor: 0.322112
 RRF SD: 0.0135193, % Relative SD: 4.19708
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



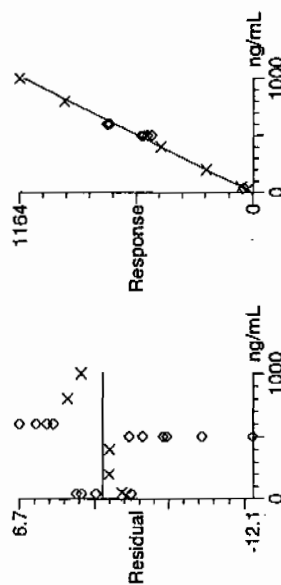
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 34-dinitrotoluene
 Response Factor: 1.0567
 RRF SD: 0.0401844, % Relative SD: 3.80282
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



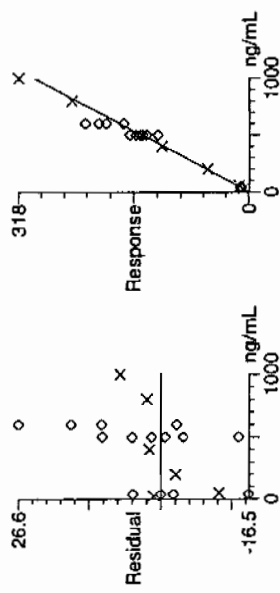
Compound name: 26-dinitrotoluene
 Response Factor: 1.14374
 RRF SD: 0.0214355, % Relative SD: 1.87416
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



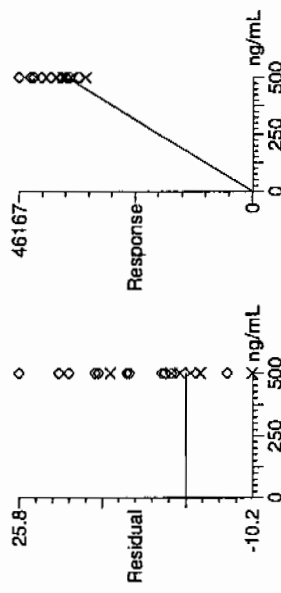
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.296113
RRF SD: 0.0185613, % Relative SD: 6.26834
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



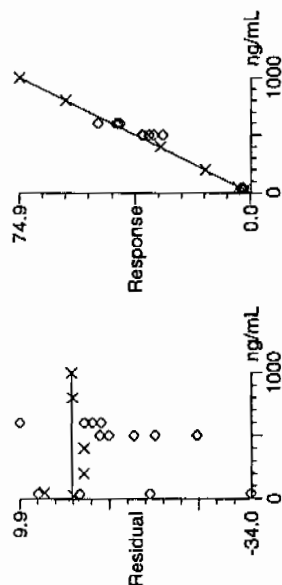
Compound name: 26-dinitrotoluene-d3
Response Factor: 73.4203
RRF SD: 5.22416, % Relative SD: 7.11541
Response type: External Std, Area
Curve type: RF



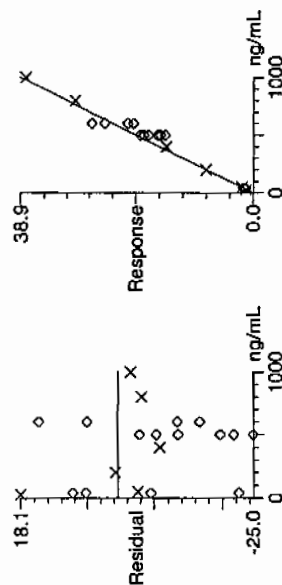
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0748676
RRF SD: 0.00205235, % Relative SD: 2.74131
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



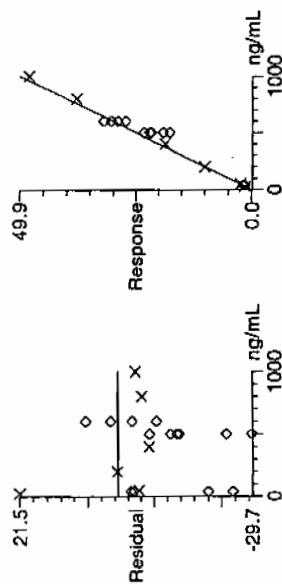
Compound name: 4-Nitrotoluene
Response Factor: 0.0389048
RRF SD: 0.00360807, % Relative SD: 9.2741
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



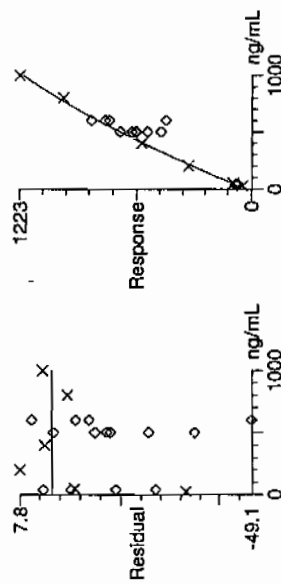
Quantify Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSL\YNXNew_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0498696
RRF SD: 0.00539833, % Relative SD: 10.8048
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.998301
Calibration curve: $-0.000343492 \cdot x^2 + 1.52676 \cdot x + 21.8393$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0326017a

Analysis Date: 26-MAR-10 22:35

LCMSMS ID: 203

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	622.152	104	
HMX	600	768.146	128	*
Nitrobenzene	600	605.515	101	
PETN	600	628.899	105	
RDX	600	659.983	110	
Tetryl	600	610.521	102	
m-Dinitrobenzene	600	622.034	104	
m-Nitrotoluene	600	642.113	107	
o-Nitrotoluene	600	659.419	110	
p-Nitrotoluene	600	688.85	115	
1,3,5-Trinitrobenzene	600	588.78	98	
1,3-Dinitrobenzene-d4	500	483.17	97	
2,4,6-Trinitrotoluene	600	665.267	111	
2,4-Dinitrotoluene	600	666.086	111	
2,6-Dinitrotoluene	600	640.076	107	
2,6-Dinitrotoluene-d3	500	468.146	94	
2-Amino-4,6-dinitrotoluene	600	630.436	105	
3,4-Dinitrotoluene	300	309.471	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0326017a

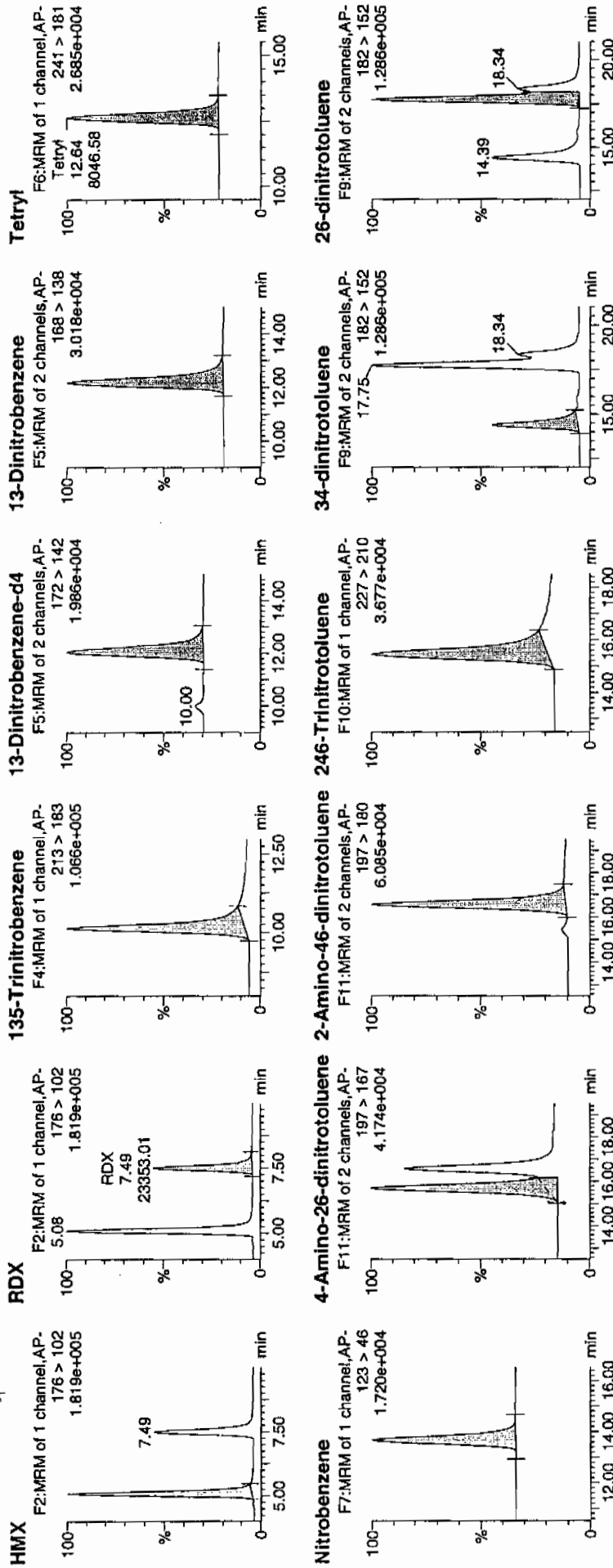
Date: 26-Mar-2010

Time: 22:35:12

ID: WXX100326-07CEV TEL

Vial: 1:1,B

3/27/10



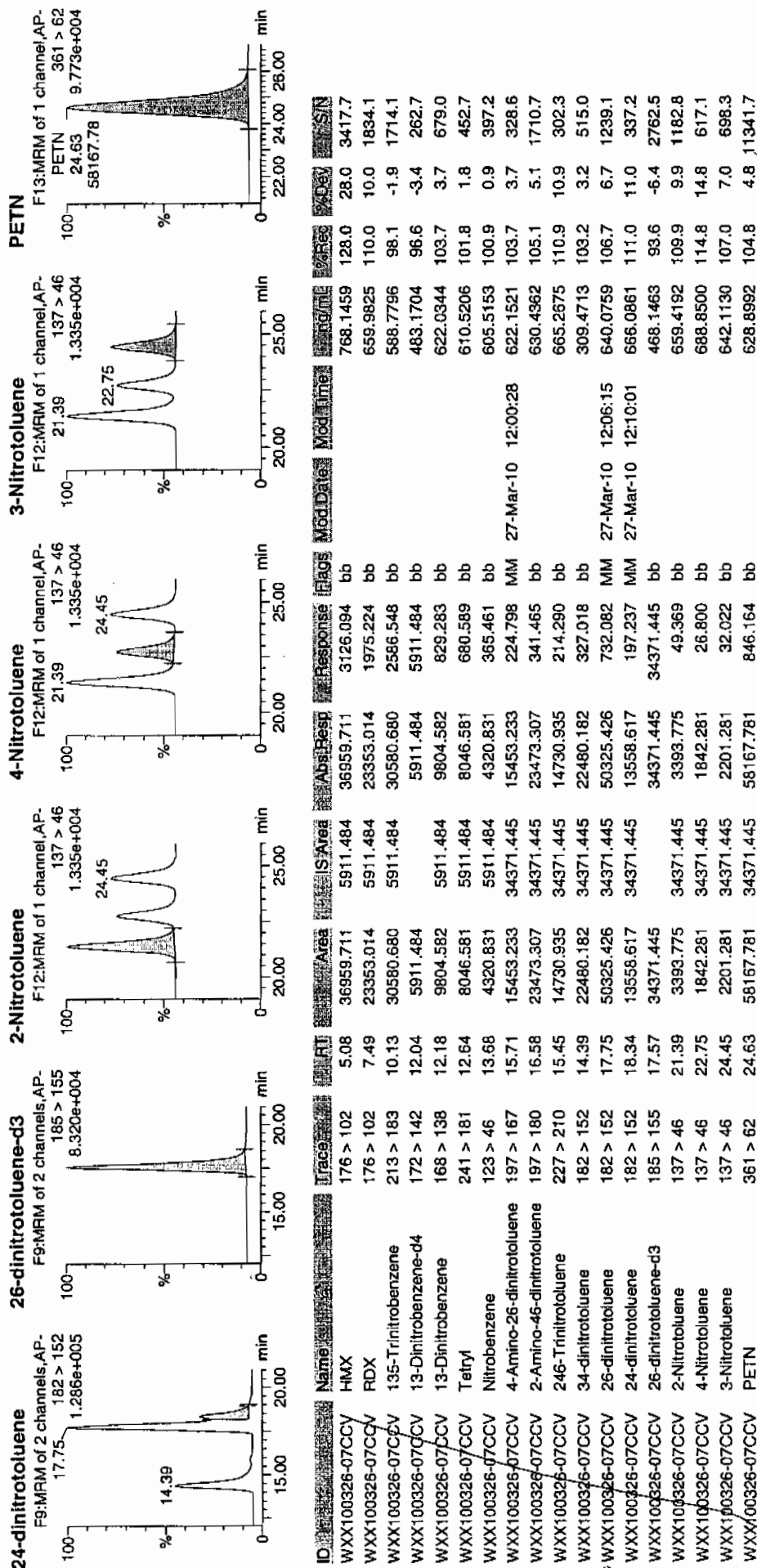
4/10/10 93/30/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Mar 27 12:13:02 2010, Page 34 of 87

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



WXX100326-07CCV

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/26/10
 Time of Injection: 2235
 Standard Number: WXX100326-07ICV
 Data File: EXP0326017a

HMX	128.0
RDX	110.0
135-TNB	98.1
13-DNB	103.7
Tetryl	101.8
Nitrobenzene	100.9
4A-26-DNT	103.7
2A-46-DNT	105.1
246-TNT	110.9
34-DNT(surr)	103.2
26-DNT	106.7
24-DNT	111.0
2-NT	109.9
4-NT	114.8
3-NT	107.0
PETN	104.8

Handwritten:
 107.5
 3/27/10

Total 1719.6

Average 107.5

Handwritten: HMM 03/30/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-2121

Lab Code: GEL

Run Date: 16-MAR-10.23-MAR-10.26-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:	EXS03160003.wiff	EXS03160004.wiff	EXS03160005.wiff	EXS03160006.wiff	EXS03160007.wiff	EXS03160008.wiff	EXS03160009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	59900	111000	285000	537000	842000	1070000	2160000	6780	1080	-.004	.9998	
2,6-Diamino-4-nitrotoluene	85600	172000	418000	822000	1180000	1600000	3140000	11900	1600	-.02	1	
3,4-Dinitrotoluene	347000	655000	1590000	2900000	4380000	5970000	10900000	-18900	13400	-2.47	.9989	
3,5-Dinitroaniline	519000	994000	2340000	4410000	6370000	8180000	14100000	84100	9190	-1.08	1	
TATB	75500	160000	398000	824000	1270000	1770000	3610000	-19600	1700	.059	.9999	
tris(o-cresyl) phosphate	709000	1340000	3260000	6150000	8920000	11800000	20800000	66900	12900	-1.26	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

031610ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.96e+004			
a1	1.7e+003			
a2	0.0593			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	8.41e+004			
a1	9.19e+003			
a2	-1.08			
Correlation coefficient 1.0000				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.89e+004			
a1	1.34e+004			
a2	-2.47			
Correlation coefficient 0.9989				
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	1.19e+004			
a1	1.6e+003			
a2	-0.0198			
Correlation coefficient 1.0000				
Use Area				

Handwritten: 3/18/10

Handwritten: 03/22/09
HMM

031610ICAL

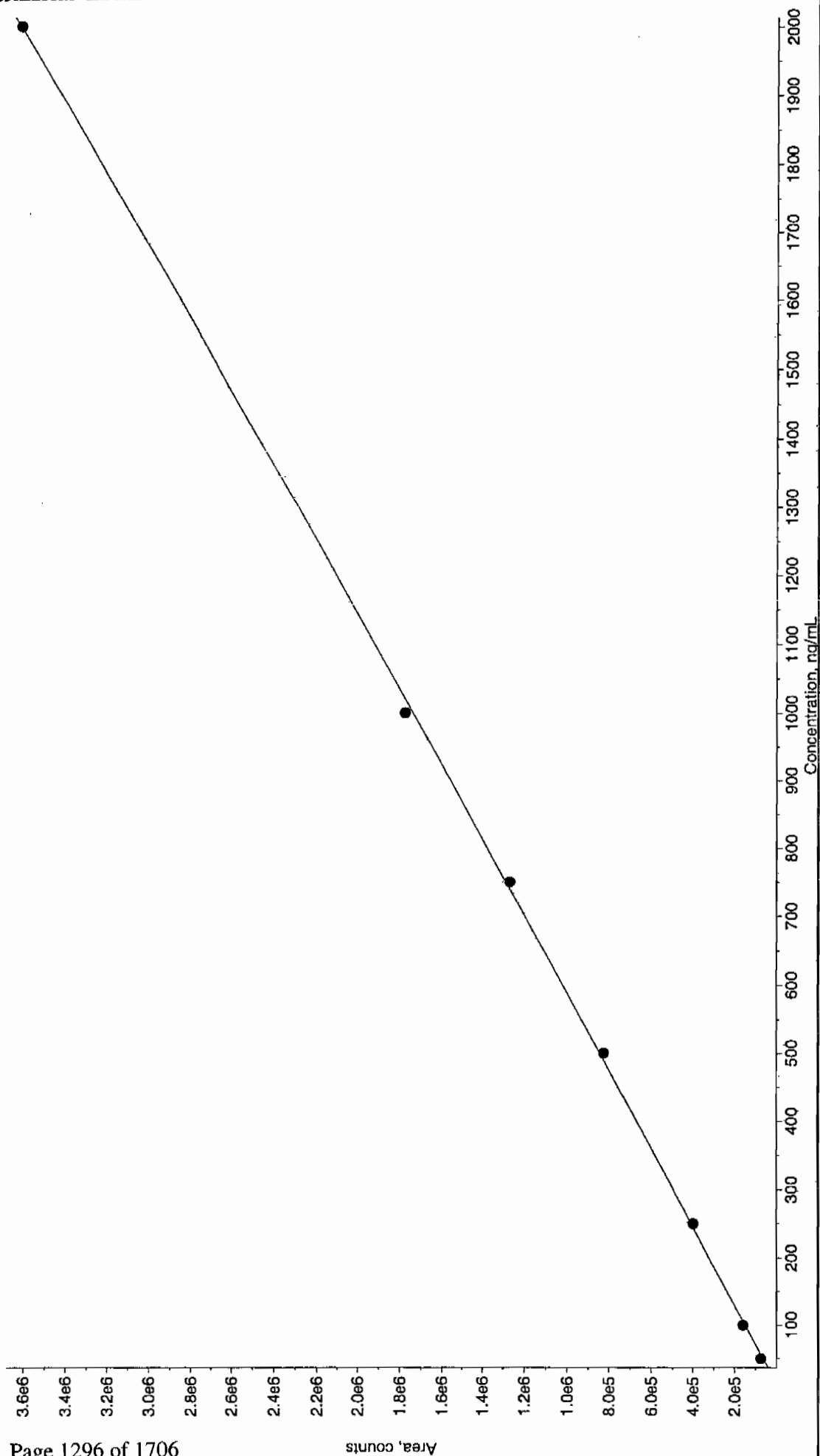
Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	6.78e+003			
a1	1.08e+003			
a2	-0.00433			
Correlation coefficient 0.9998				
Use Area				

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

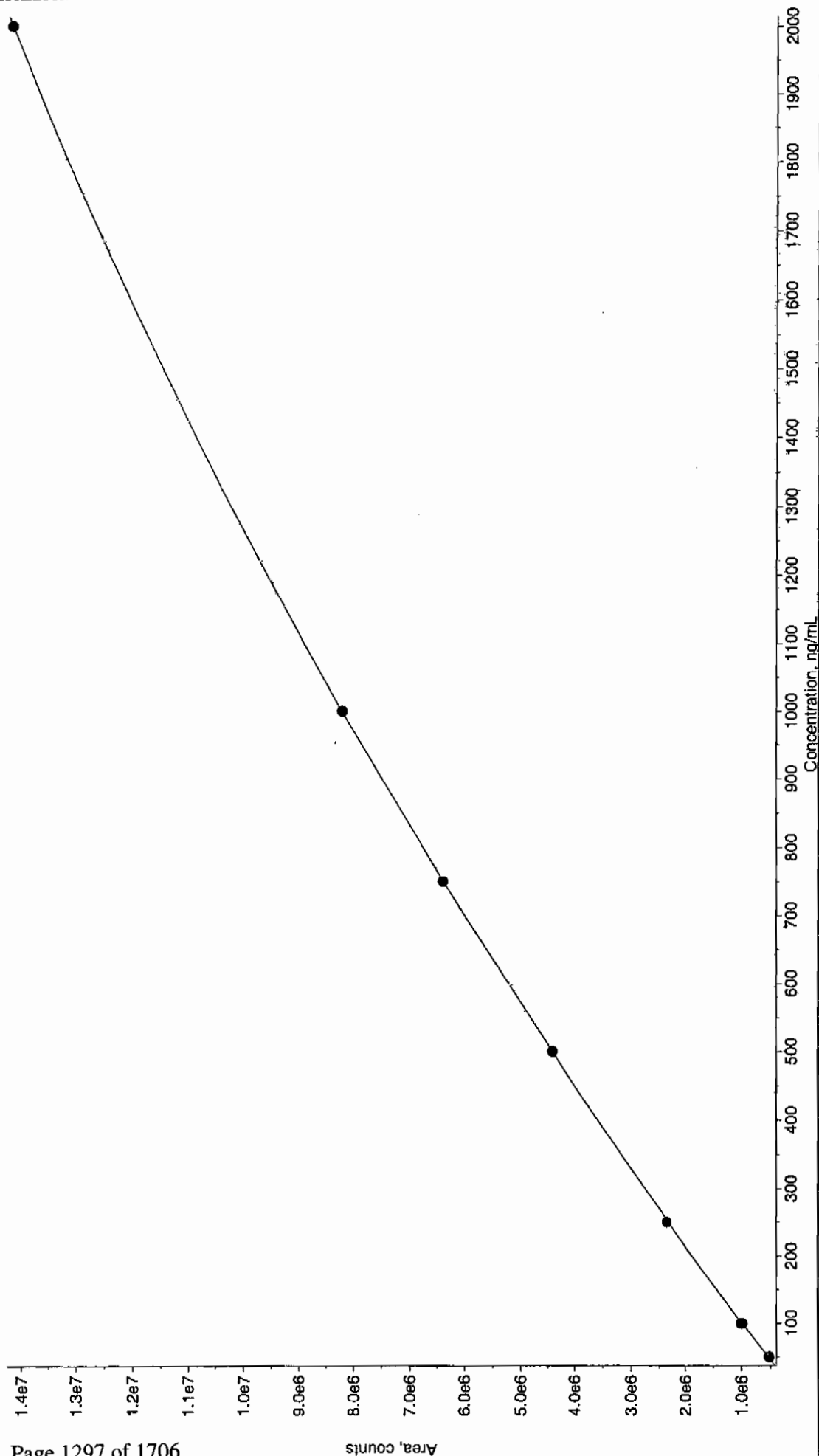
Fit	Quadratic	Weighting	None	Iterate No
a0	6.69e+004			
a1	1.29e+004			
a2	-1.26			
Correlation coefficient 1.0000				
Use Area				

031610.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0593 x^2 + 1.7e+003 x + -1.96e+004$ ($r = 0.9999$)



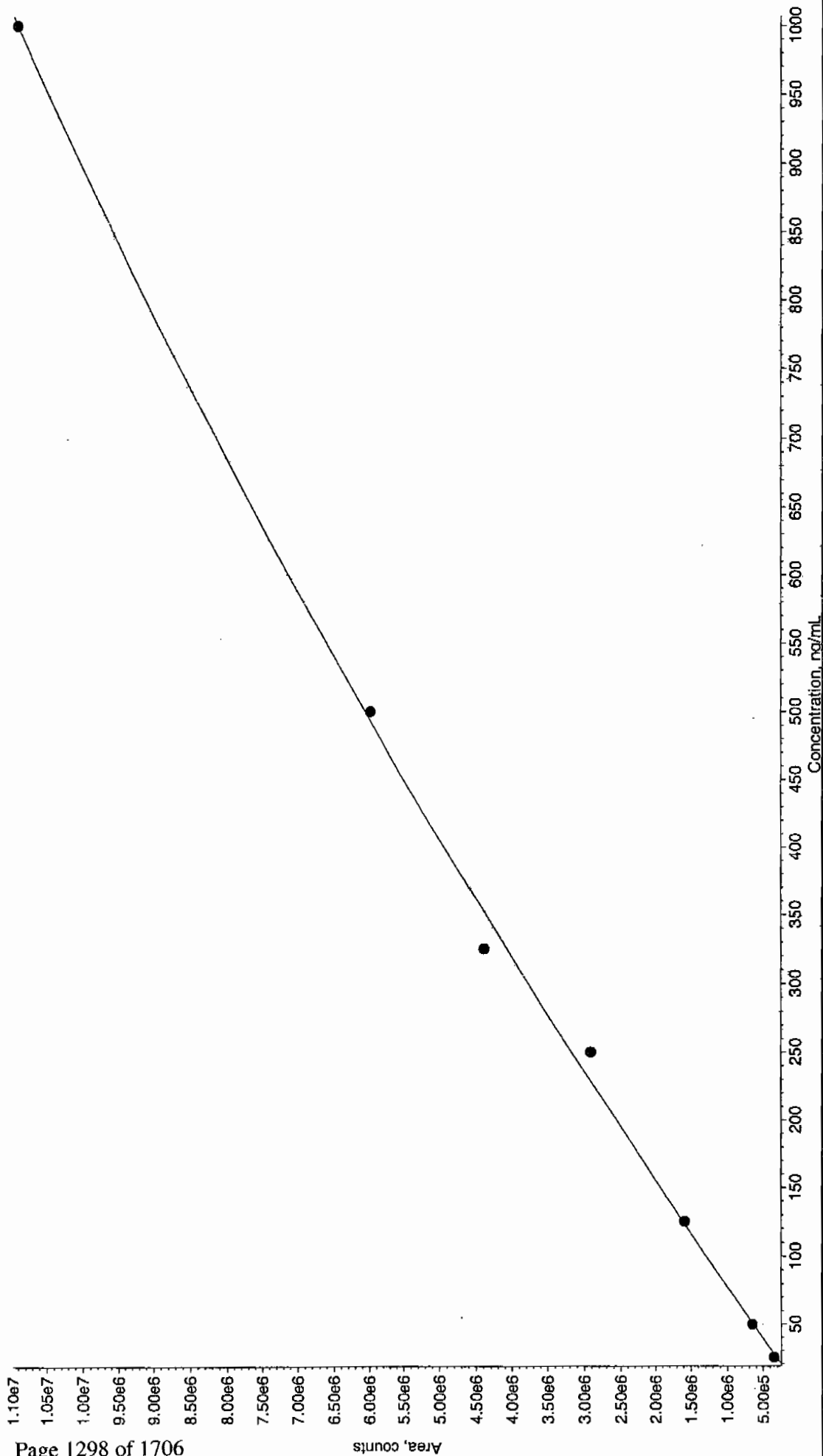
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

031610.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.08 \times 10^{-3} x^2 + 9.19 \times 10^{-3} x + 8.41 \times 10^{-4}$ ($r = 1.0000$)

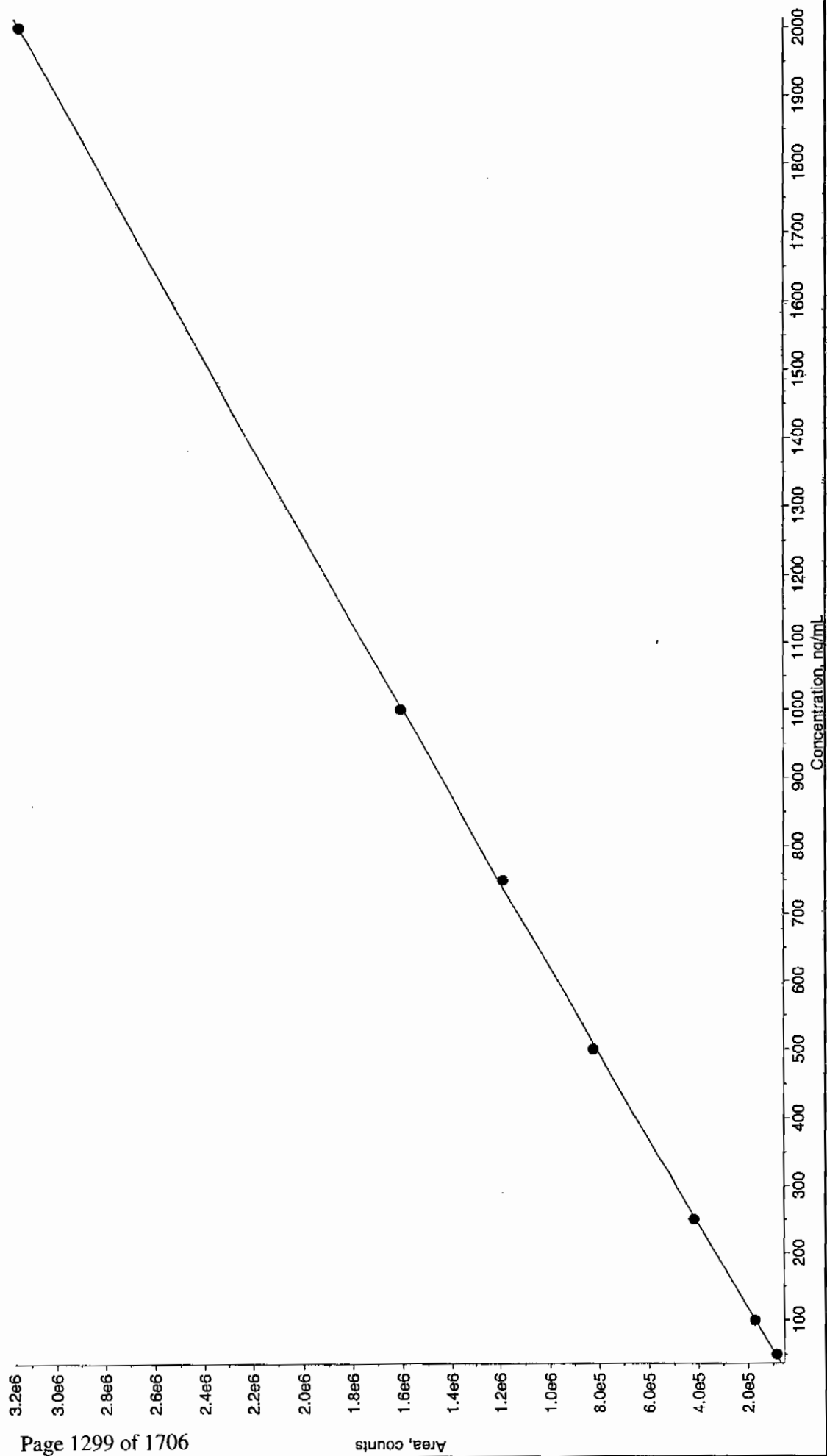


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

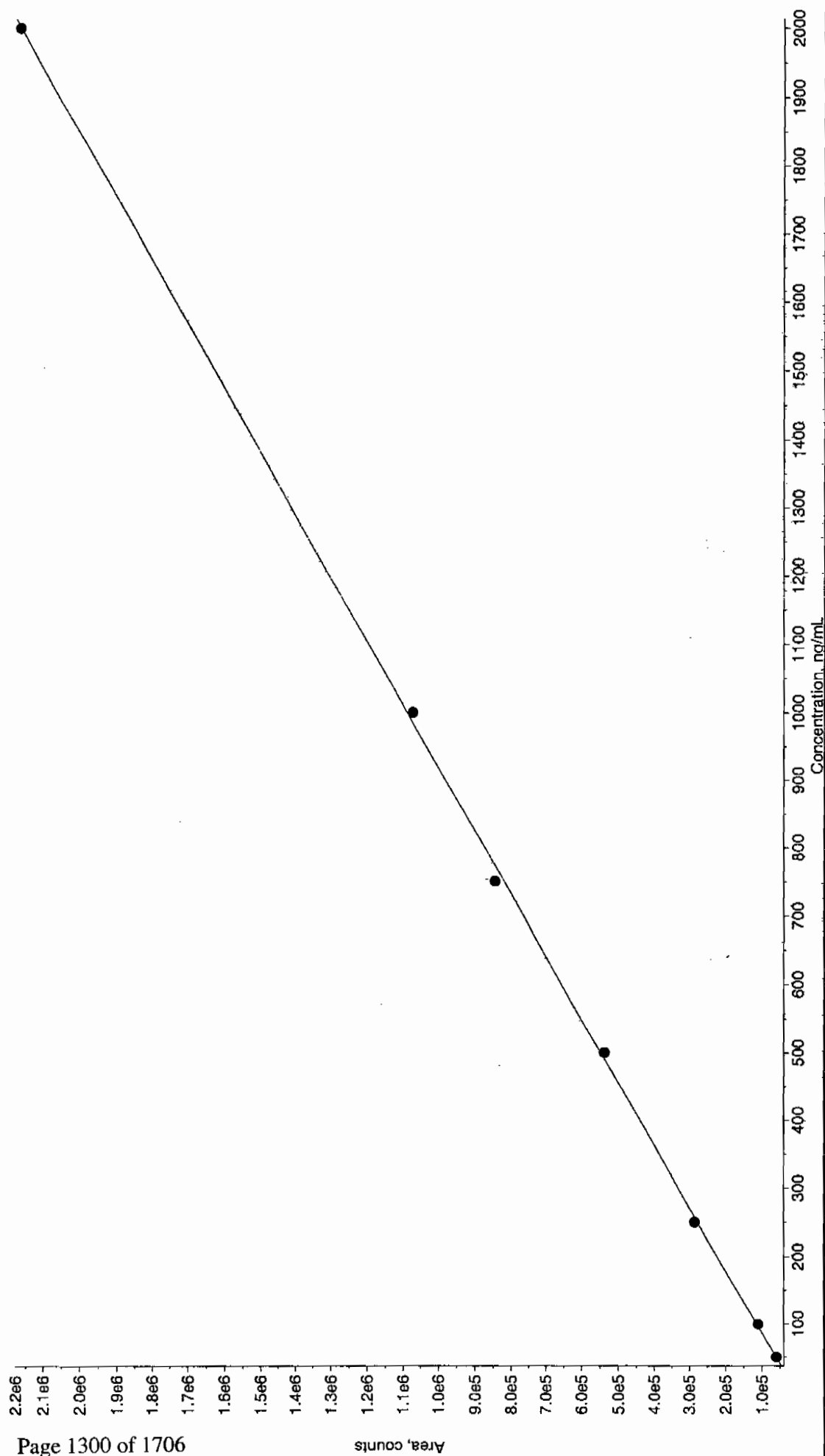
031610.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.47 x^2 + 1.34e+004 x + -1.89e+004$ ($r = 0.9989$)



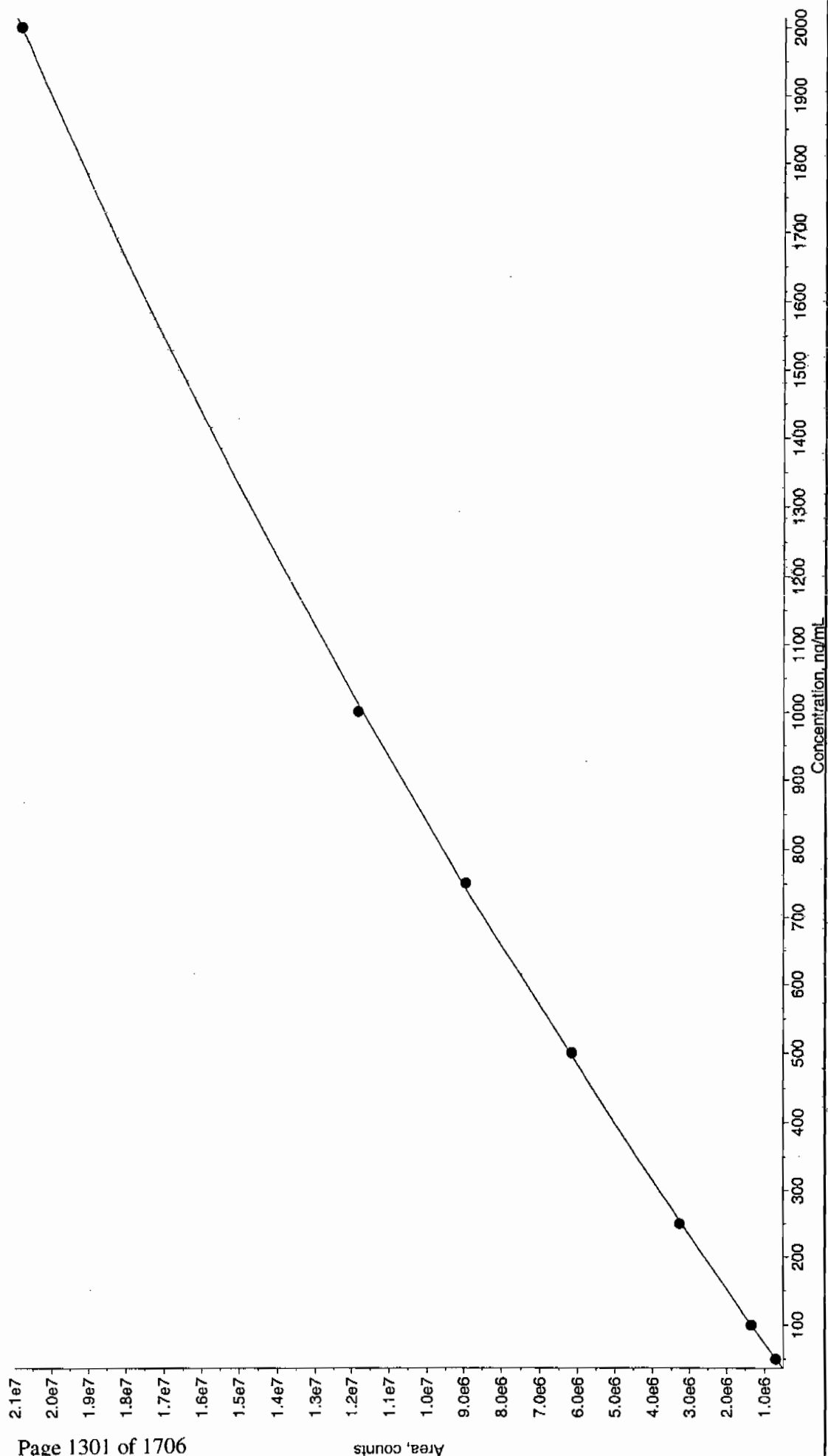
031610.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0198 x^2 + 1.6e+003 x + 1.19e+004$ ($r = 1.0000$)



031610.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.00433 x^2 + 1.08e+003 x + 6.78e+003$ ($r = 0.9998$)



031610.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.26 x^2 + 1.29e+004 x + 6.69e+004$ ($r = 1.0000$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03160011.wiff

Analysis Date: 16-MAR-10 10:54

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	486	97	
TATB	500	494	99	
tris(o-cresyl) phosphate	500	490	98	
2,4-Diamino-6-nitrotoluene	500	487	97	
2,6-Diamino-4-nitrotoluene	500	468	94	
3,4-Dinitrotoluene	250	232	93	

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%

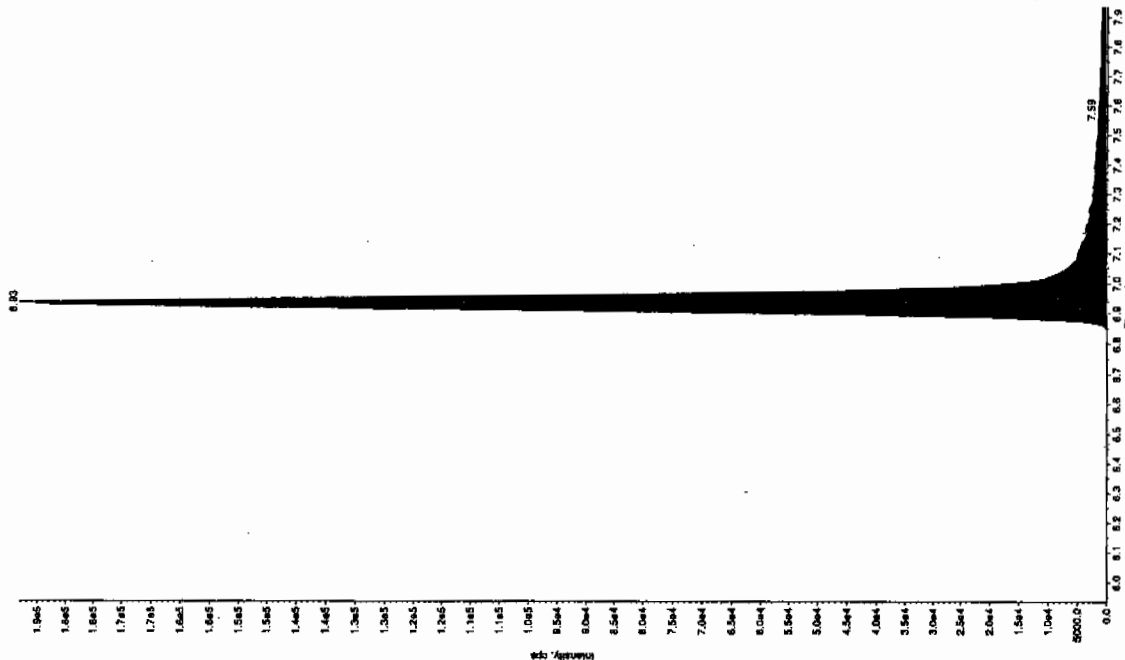
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

San 3/18/10

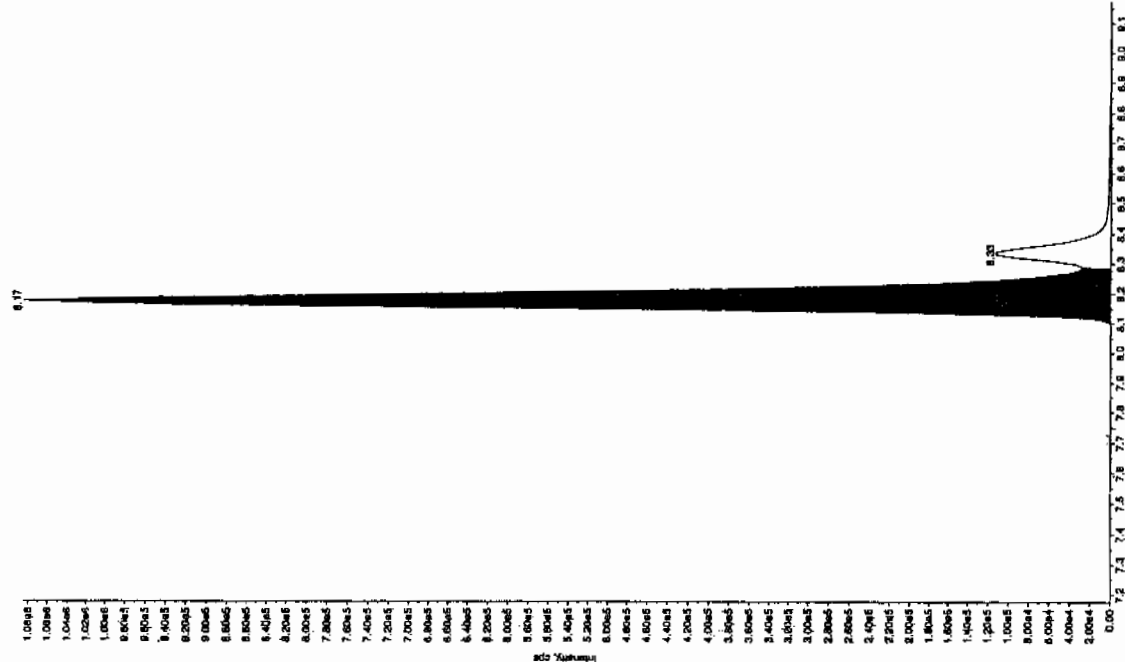
Sample Name: "WXX100316-2BICV" Sample ID: "JILLER" File: "EXS03160011.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 499. ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 10:54:51 AM
 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: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 8.32e+006 counts
 Height: 18818.568 cps
 Start Time: 6.91 min
 End Time: 7.99 min



Sample Name: "WXX100316-2BICV" Sample ID: "JILLER" File: "EXS03160011.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): 182.046.0 amu
 Comment: "LCMSEXP_C" Annotation: "

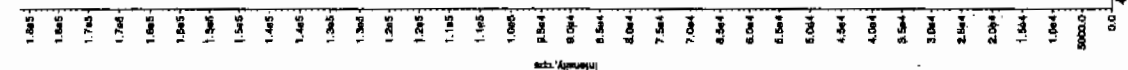
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 499. ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 10:54:51 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 4.29e+006 counts
 Height: 108492.261 cps
 Start Time: 8.09 min
 End Time: 8.29 min



4/11/10 03:12/10

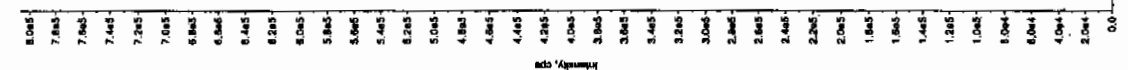
Sample Name: WXX100316-261CV Sample ID: 111ER File: EX03160011.wif
 Peak Name: 25-Dinitro-4-nitrofluorene Mass(es): 166.046.0 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 468. ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 10:54:51 AM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 8.00 sec
 Smoothing Width: 3 points
 RT Window: 36.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 7.58e+005 counts
 Height: 181494.614 cps
 Start Time: 4.87 min
 End Time: 5.27 min



Sample Name: WXX100316-261CV Sample ID: 111ER File: EX03160011.wif
 Peak Name: 34-Dinitrofluorene Mass(es): 182.1751.9 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 250. ng/mL
 Calculated Conc: 232. ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 10:54:51 AM
 Modified: No
 Proc Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 8.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.95e+006 counts
 Height: 807097.900 cps
 Start Time: 8.26 min
 End Time: 8.67 min



Sample Name: 'WXX100316-2810V' Sample ID: '111ER' File: 'EX503160011.wif'

Peak Name: '111(O-croscyl) phenolphthalein' Mass(es): '385.1791.0 amu'

Comment: 'LCMSEXP_C' Annotation: ''

Sample Index: 1

Sample Type: OC
Concentration: 500. ng/mL
Calculated Conc: 499. ng/mL
Acq. Date: 3/15/2010
Acq. Time: 10:54:51 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 8000.00 cps

Min. Peak Width: 3.00 sec

Smoothing Width: 30.0 points

Ac Window: 30.0 sec

Expected RT: 10.9 min

Use Relative RT: No

Int. Type: Valley

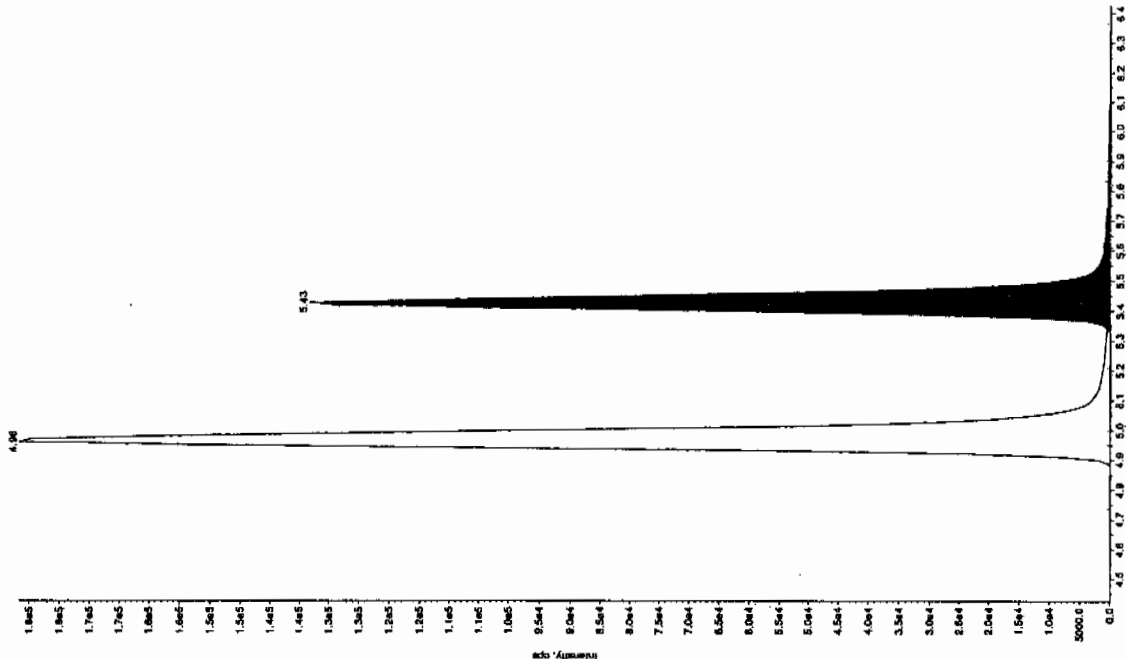
Retention Time: 10.9 min

Area: 6.08e+005 counts

Height: 1516141.724 cps

Start Time: 10.8 min

End Time: 11.2 min



Sample Name: 'WXX100316-2810V' Sample ID: '111ER' File: 'EX503160011.wif'

Peak Name: '24-Diamino-6-nitrofluorene' Mass(es): '186.0461.0 amu'

Comment: 'LCMSEXP_C' Annotation: ''

Sample Index: 1

Sample Type: OC
Concentration: 500. ng/mL
Calculated Conc: 487. ng/mL
Acq. Date: 3/15/2010
Acq. Time: 10:54:51 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 350.00 cps

Min. Peak Width: 3.00 sec

Smoothing Width: 30.0 points

Ac Window: 30.0 sec

Expected RT: 5.43 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 5.43 min

Area: 5.34e+005 counts

Height: 131140.213 cps

Start Time: 5.33 min

End Time: 5.90 min

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323012a

Analysis Date: 23-MAR-10 14:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.728	112	
1,3-Dinitrobenzene-d4	500	482.919	97	
2,4,6-Trinitrotoluene	40	35.085	88	
2,4-Dinitrotoluene	40	40.855	102	
2,6-Dinitrotoluene	40	39.526	99	
2,6-Dinitrotoluene-d3	500	484.851	97	
2-Amino-4,6-dinitrotoluene	40	41.982	105	
3,4-Dinitrotoluene	20	19.603	98	
4-Amino-2,6-dinitrotoluene	40	41.07	103	
HMX	40	46.731	117	
Nitrobenzene	40	39.137	98	
PETN	40	43.189	108	
RDX	40	43.979	110	
Tetryl	40	44.65	112	
m-Dinitrobenzene	40	42.729	107	
m-Nitrotoluene	40	44.799	112	
o-Nitrotoluene	40	42.092	105	
p-Nitrotoluene	40	44.279	111	

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

Printed: Wed Mar 24 09:32:17 2010, Page 23 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323012a

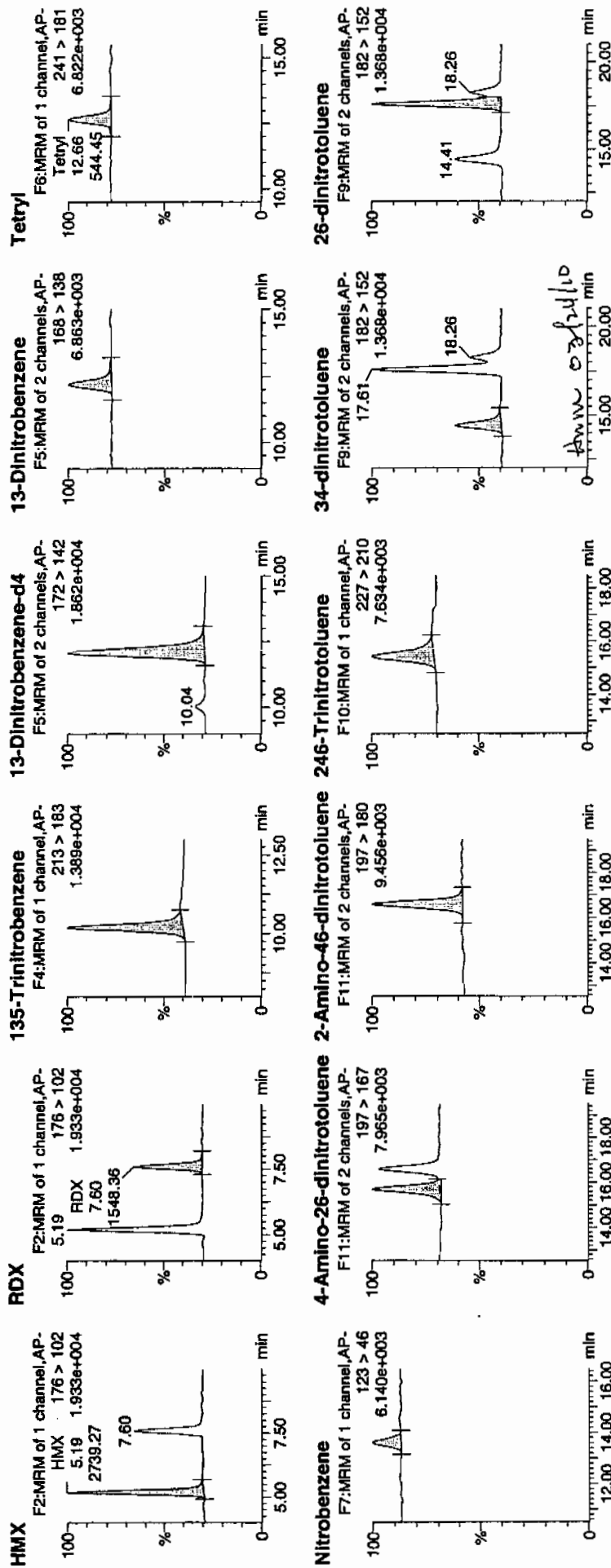
Date: 23-Mar-2010

Time: 14:33:19

ID: WXX100323-08CRI

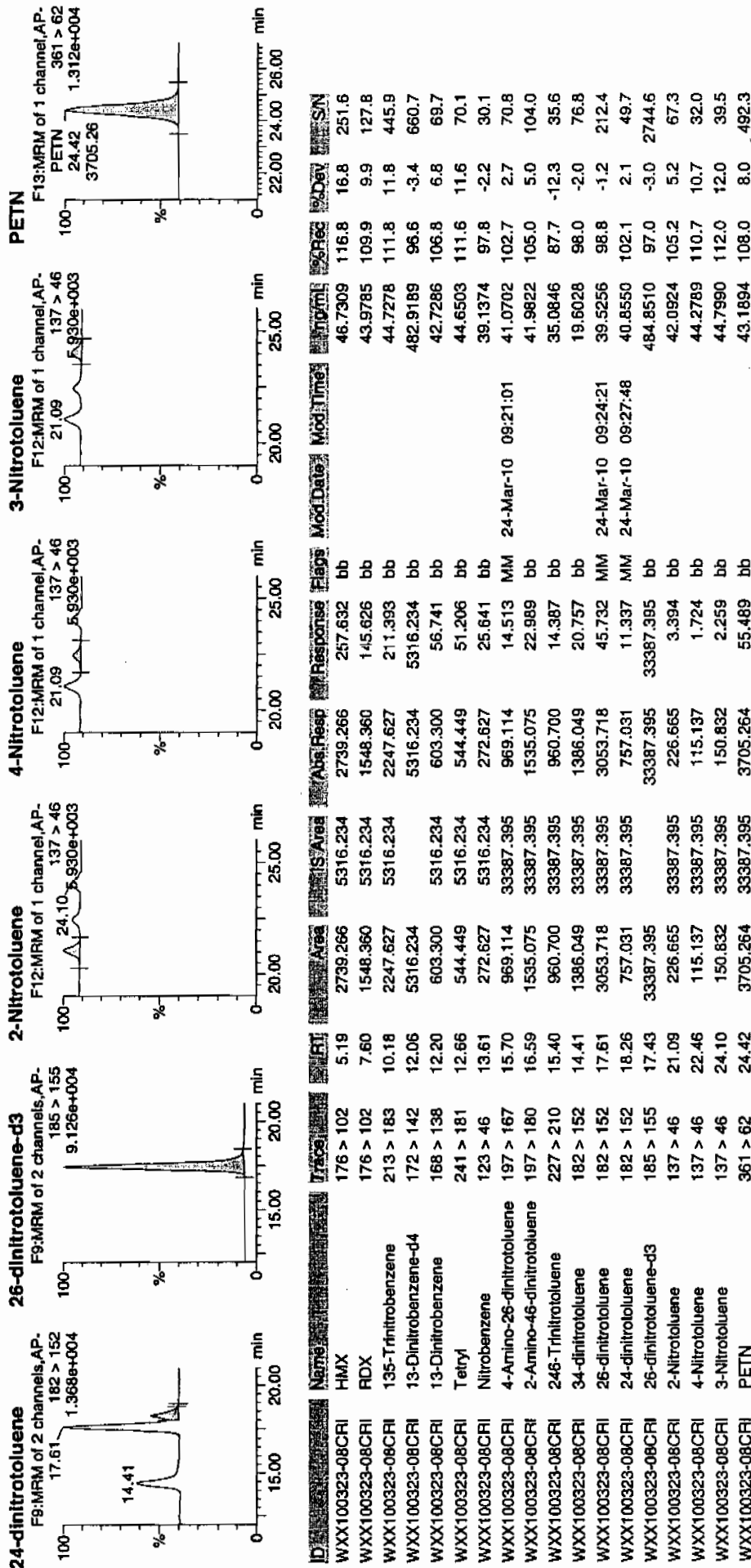
Vial: 1:1,C

HTT
3/24/10



Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

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GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 1433
 Standard Number WXX100323-08CRI
 Data File EXP0323012a

HMX	116.8
RDX	109.9
135-TNB	111.8
13-DNB	106.8
Tetryl	111.6
Nitrobenzene	97.8
4A-26-DNT	102.7
2A-46-DNT	105.0
246-TNT	87.7
34-DNT(surr)	98.0
26-DNT	98.8
24-DNT	102.1
2-NT	105.2
4-NT	110.7
3-NT	112.0
PETN	108.0

*WTP
3/24/10*

Total 1684.9

Average 105.3

Ann 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323023a

Analysis Date: 23-MAR-10 19:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	638.616	106	
HMX	600	775.75	129	*
Nitrobenzene	600	605.281	101	
PETN	600	636.192	106	
RDX	600	766.934	128	*
Tetryl	600	703.31	117	
m-Dinitrobenzene	600	619.864	103	
m-Nitrotoluene	600	587.224	98	
o-Nitrotoluene	600	612.723	102	
p-Nitrotoluene	600	652.819	109	
1,3,5-Trinitrobenzene	600	618.225	103	
1,3-Dinitrobenzene-d4	500	527.566	106	
2,4,6-Trinitrotoluene	600	626.233	104	
2,4-Dinitrotoluene	600	641.728	107	
2,6-Dinitrotoluene	600	622.086	104	
2,6-Dinitrotoluene-d3	500	516.532	103	
2-Amino-4,6-dinitrotoluene	600	682.18	114	
3,4-Dinitrotoluene	300	318.667	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 45 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323023a

Date: 23-Mar-2010

Time: 19:57:38

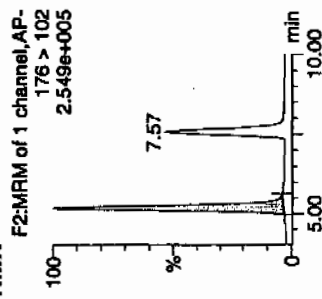
ID: WXX100323-07CCV

Vial: 1:1.B

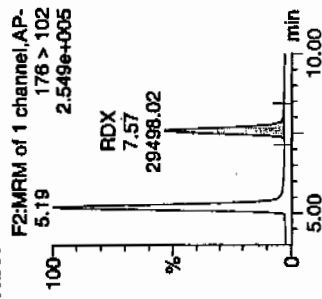
Page 1311 of 1706

Handwritten: 12/1/10

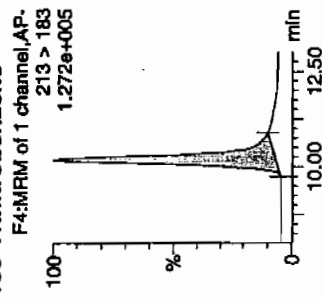
HMX



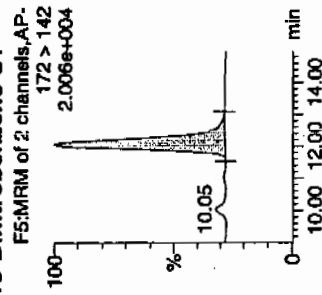
RDX



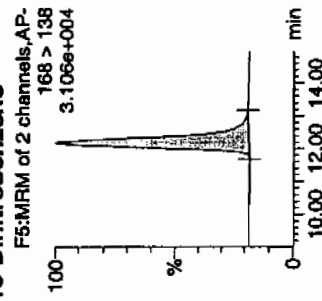
135-Trinitrobenzene



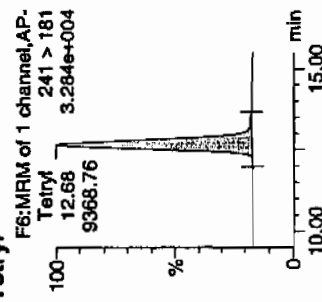
13-Dinitrobenzene-d4



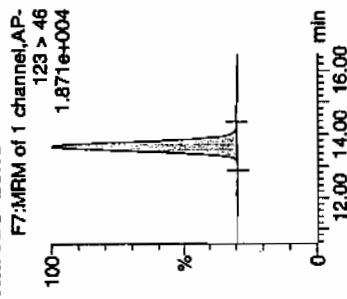
13-Dinitrobenzene



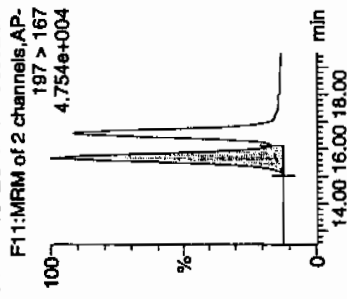
Tetryl



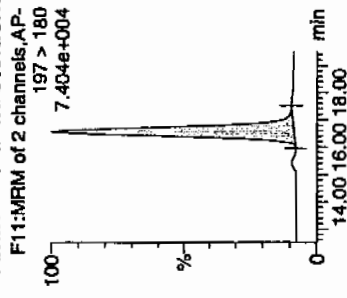
Nitrobenzene



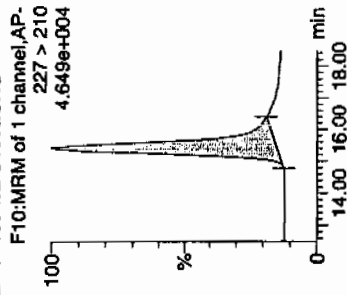
4-Amino-26-dinitrotoluene



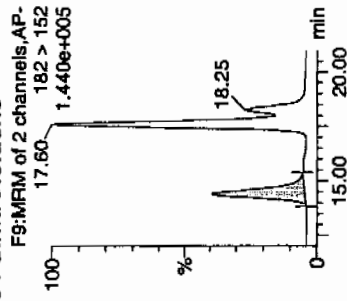
2-Amino-46-dinitrotoluene



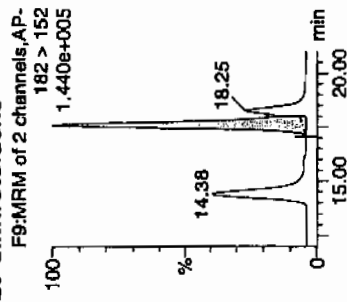
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

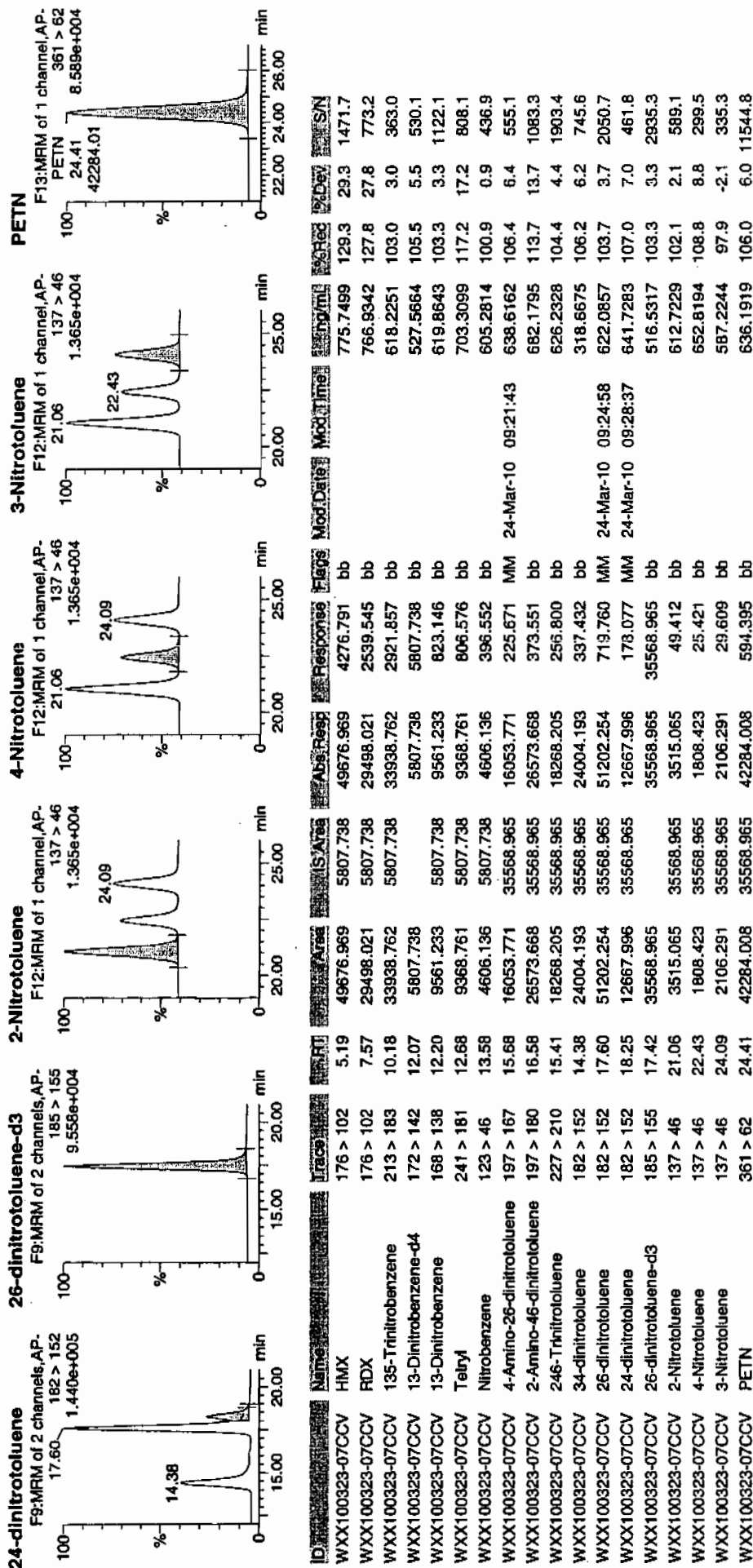


Handwritten: HMX 03/24/10

Printed: Wed Mar 24 09:32:17 2010, Page 46 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1957
 Standard Number: WXX100323-07CCV
 Data File: EXP0323023a

HMX	129.3
RDX	127.8
135-TNB	103.0
13-DNB	103.3
Tetryl	117.2
Nitrobenzene	100.9
4A-26-DNT	106.4
2A-46-DNT	113.7
246-TNT	104.4
34-DNT(surr)	106.2
26-DNT	103.7
24-DNT	107.0
2-NT	102.1
4-NT	108.8
3-NT	97.9
PETN	106.0

Handwritten:
 3/24/10

Total 1737.7

Handwritten: 03/24/10

Average 108.6

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323025a

Analysis Date: 23-MAR-10 20:56

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	578.273	116	
2,4,6-Trinitrotoluene	40	36.796	92	
2,4-Dinitrotoluene	40	36.274	91	
2,6-Dinitrotoluene	40	39.059	98	
2,6-Dinitrotoluene-d3	500	625.064	125	
2-Amino-4,6-dinitrotoluene	40	35.345	88	
3,4-Dinitrotoluene	20	18.965	95	
4-Amino-2,6-dinitrotoluene	40	37.682	94	
HMX	40	43.341	108	
Nitrobenzene	40	37.897	95	
PETN	40	34.251	86	
RDX	40	42.597	106	
Tetryl	40	36.872	92	
m-Dinitrobenzene	40	41.891	105	
m-Nitrotoluene	40	39.158	98	
o-Nitrotoluene	40	44.793	112	
p-Nitrotoluene	40	35.3	88	
1,3,5-Trinitrobenzene	40	43.551	109	

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

Printed: Wed Mar 24 09:32:17 2010, Page 49 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323025a

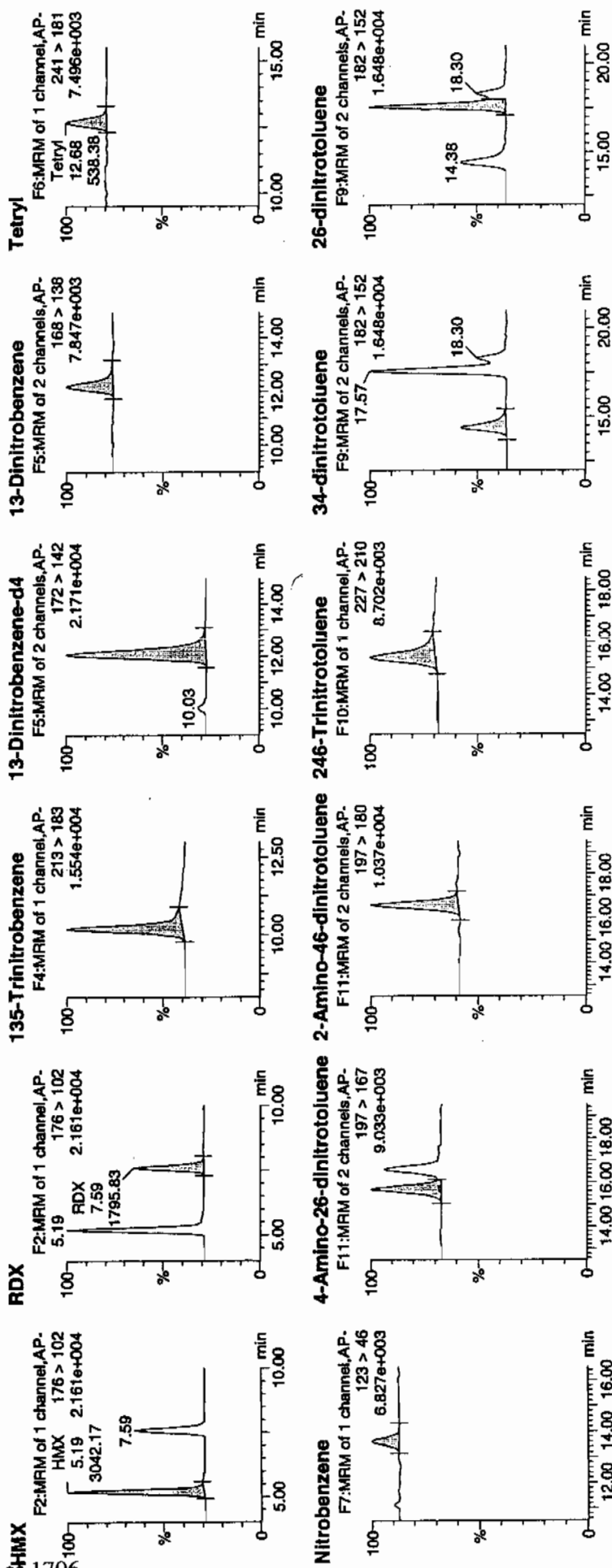
Date: 23-Mar-2010

Time: 20:56:42

ID: WXX100323-08CRI

Vial: 1:1,C

10/1/10
10/1/10

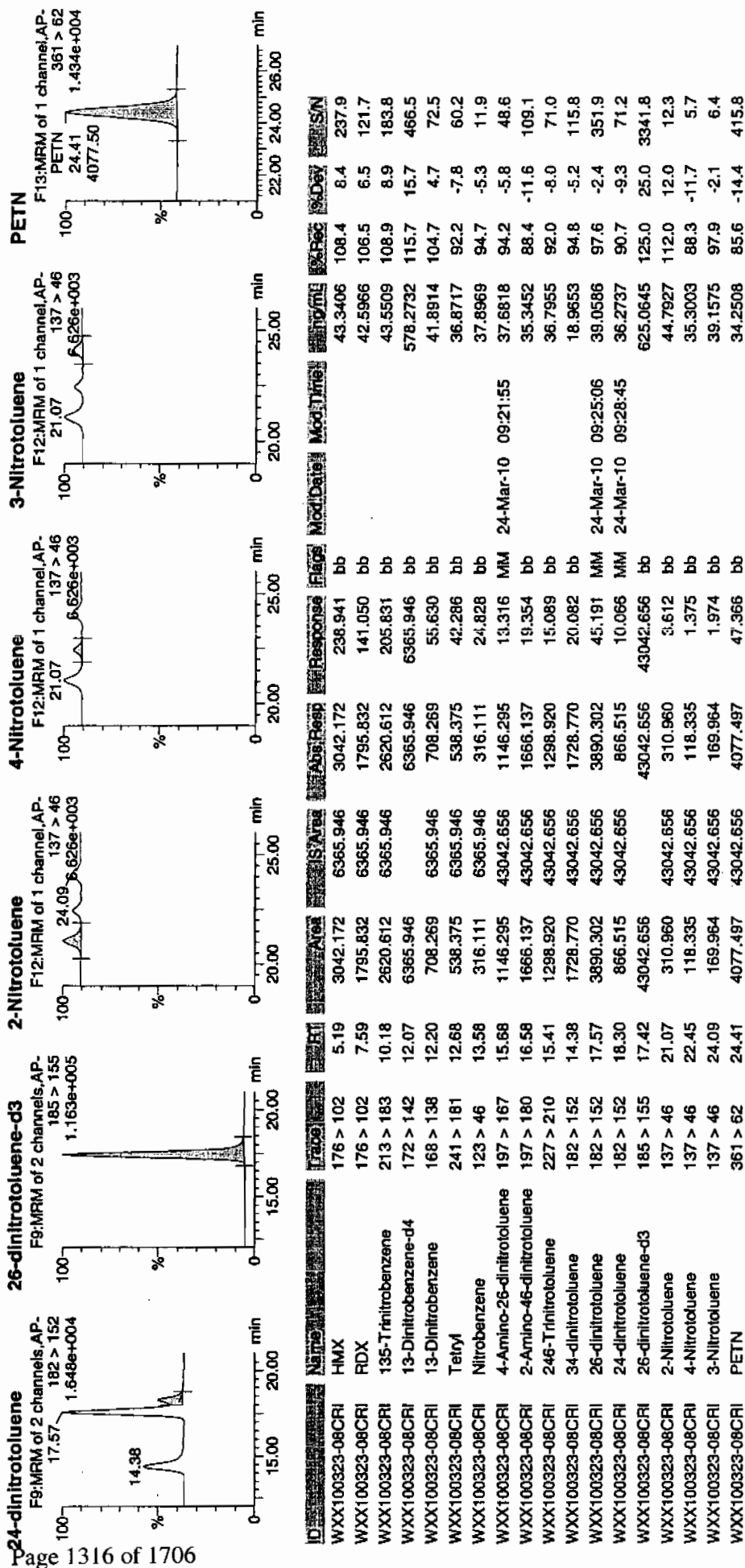


01/1/10
01/1/10

Printed: Wed Mar 24 09:32:17 2010, Page 50 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 2056
 Standard Number WXX100323-08CRI
 Data File EXP0323025a

HMX	108.4
RDX	106.5
135-TNB	108.9
13-DNB	104.7
Tetryl	92.2
Nitrobenzene	94.7
4A-26-DNT	94.2
2A-46-DNT	88.4
246-TNT	92.0
34-DNT(surr)	94.8
26-DNT	97.6
24-DNT	90.7
2-NT	112.0
4-NT	88.3
3-NT	97.9
PETN	85.6

1077
3/24/10

Total 1556.9

Average 97.3

Time 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEI

GEL Sample ID: WXXCCV

GEL Data File EXP0323036a

Analysis Date: 24-MAR-10 02:21

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	577.175	96	
1,3-Dinitrobenzene-d4	500	575.9	115	
2,4,6-Trinitrotoluene	600	619.991	103	
2,4-Dinitrotoluene	600	633.316	106	
2,6-Dinitrotoluene	600	619.655	103	
2,6-Dinitrotoluene-d3	500	508.988	102	
2-Amino-4,6-dinitrotoluene	600	653.379	109	
3,4-Dinitrotoluene	300	321.856	107	
4-Amino-2,6-dinitrotoluene	600	620.656	103	
HMX	600	618.029	103	
Nitrobenzene	600	536.553	89	
PETN	600	641.859	107	
RDX	600	653.059	109	
Tetryl	600	658.046	110	
m-Dinitrobenzene	600	611.433	102	
m-Nitrotoluene	600	567.971	95	
o-Nitrotoluene	600	566.873	94	
p-Nitrotoluene	600	613.653	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0323036a

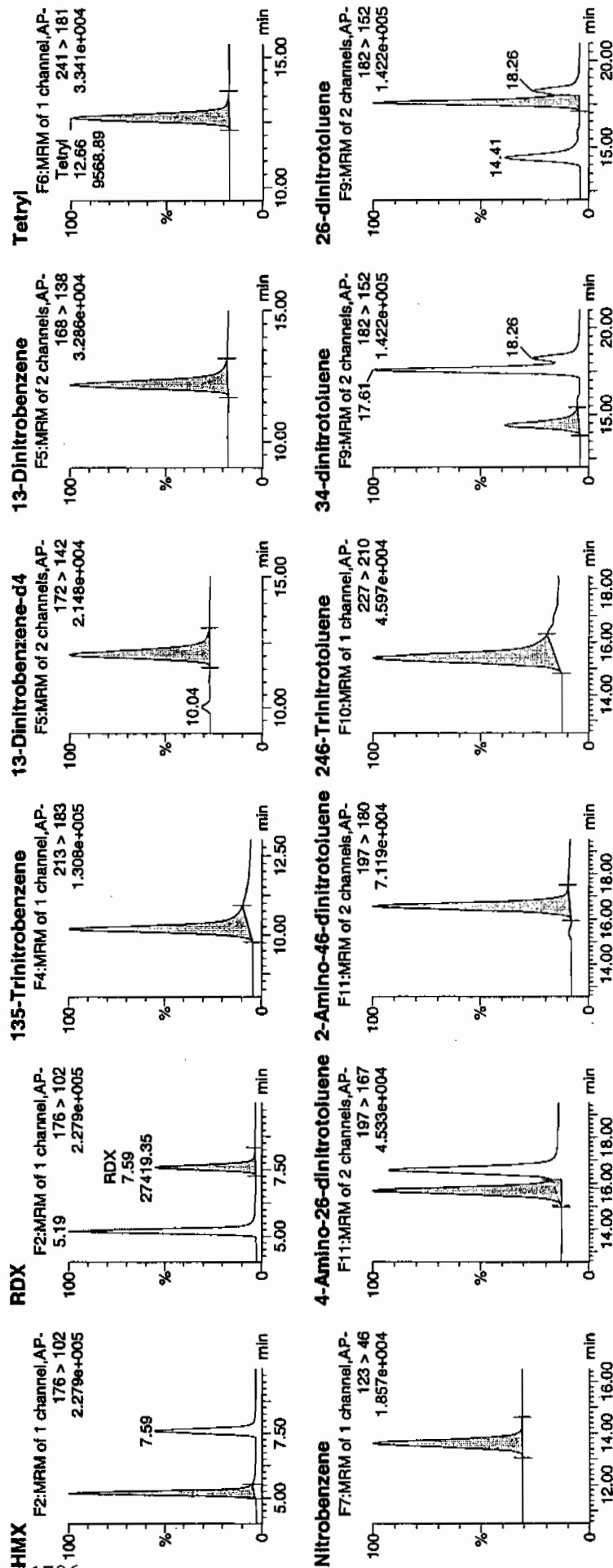
Date: 24-Mar-2010

Time: 02:21:01

ID: WXX100323-07CCV

Vial: 1:1,B

not
3/24/10

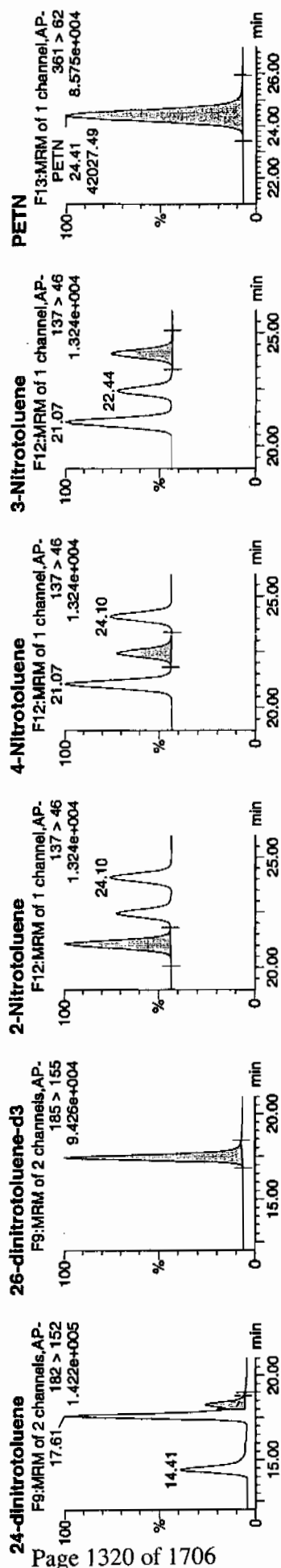


4/24/10

Printed: Wed Mar 24 09:32:17 2010, Page 72 of 99

Quantify Sample Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASS\LYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS Area	Abn Resp	Response	Flag	Mod Date	Mod Time	Conc	SN
WXX100323-07CCV	HMX	176 > 102	5.19	43202.789	6339.820	43202.789	3407.257	bb			618.0285	3.0
WXX100323-07CCV	RDX	176 > 102	7.59	27419.350	6339.820	27419.350	2162.471	bb			653.0591	8.8
WXX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	34588.102	6339.820	34588.102	2727.846	bb			577.1749	-3.8
WXX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	12.06	6339.820	6339.820	6339.820	6339.820	bb			575.9000	15.2
WXX100323-07CCV	13-Dinitrobenzene	168 > 138	12.17	10295.225	6339.820	10295.225	811.949	bb			611.4327	101.9
WXX100323-07CCV	Tetryl	241 > 181	12.66	9568.891	6339.820	9568.891	754.666	bb			658.0460	9.7
WXX100323-07CCV	Nitrobenzene	123 > 46	13.61	4457.201	6339.820	4457.201	351.524	bb			536.5533	-10.6
WXX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.67	15374.411	35049.496	15374.411	219.324	MM	24-Mar-10	09:22:18	620.6558	103.4
WXX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	25080.061	35049.496	25080.061	357.781	bb			653.3791	108.9
WXX100323-07CCV	246-Trinitrotoluene	227 > 210	15.40	17821.988	35049.496	17821.988	254.240	bb			619.9912	103.3
WXX100323-07CCV	34-dinitrotoluene	182 > 152	14.41	23890.289	35049.496	23890.289	340.808	bb			321.8559	107.3
WXX100323-07CCV	26-dinitrotoluene	182 > 152	17.61	50257.344	35049.496	50257.344	716.948	MM	24-Mar-10	09:25:22	619.6552	103.3
WXX100323-07CCV	24-dinitrotoluene	182 > 152	18.26	12319.353	35049.496	12319.353	175.742	MM	24-Mar-10	09:28:57	633.3162	105.6
WXX100323-07CCV	26-dinitrotoluene-d3	185 > 155	17.43	35049.496	35049.496	35049.496	35049.496	bb			508.9880	101.8
WXX100323-07CCV	2-Nitrotoluene	137 > 46	21.07	3204.540	35049.496	3204.540	45.714	bb			566.8732	94.5
WXX100323-07CCV	4-Nitrotoluene	137 > 46	22.44	1675.098	35049.496	1675.098	23.896	bb			613.6528	102.3
WXX100323-07CCV	3-Nitrotoluene	137 > 46	24.10	2007.479	35049.496	2007.479	28.638	bb			567.9711	94.7
WXX100323-07CCV	PETN	361 > 82	24.41	42027.492	35049.496	42027.492	599.545	bb			641.8591	107.0

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 0221
 Standard Number: WXX100323-07CCV
 Data File: EXP0323036a

HMX	103.0
RDX	108.8
135-TNB	96.2
13-DNB	101.9
Tetryl	109.7
Nitrobenzene	89.4
4A-26-DNT	103.4
2A-46-DNT	108.9
246-TNT	103.3
34-DNT(surr)	107.3
26-DNT	103.3
24-DNT	105.6
2-NT	94.5
4-NT	102.3
3-NT	94.7
PETN	107.0

Handwritten: 102.5
3/24/10

Total 1639.3

Average 102.5

Handwritten: Hmx 03/24/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323038a

Analysis Date: 24-MAR-10 03:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	40	42.98	107	
RDX	40	42.128	105	
Tetryl	40	37.542	94	
m-Dinitrobenzene	40	41.281	103	
m-Nitrotoluene	40	41.221	103	
o-Nitrotoluene	40	41.666	104	
p-Nitrotoluene	40	36.98	92	
1,3,5-Trinitrobenzene	40	45.654	114	
1,3-Dinitrobenzene-d4	500	578.299	116	
2,4,6-Trinitrotoluene	40	40.179	100	
2,4-Dinitrotoluene	40	42.924	107	
2,6-Dinitrotoluene	40	40.014	100	
2,6-Dinitrotoluene-d3	500	568.942	114	
2-Amino-4,6-dinitrotoluene	40	41.784	104	
3,4-Dinitrotoluene	20	23.698	118	
4-Amino-2,6-dinitrotoluene	40	39.666	99	
HMX	40	48.156	120	
Nitrobenzene	40	40.635	102	

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

Printed: Wed Mar 24 09:32:17 2010, Page 75 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323038a

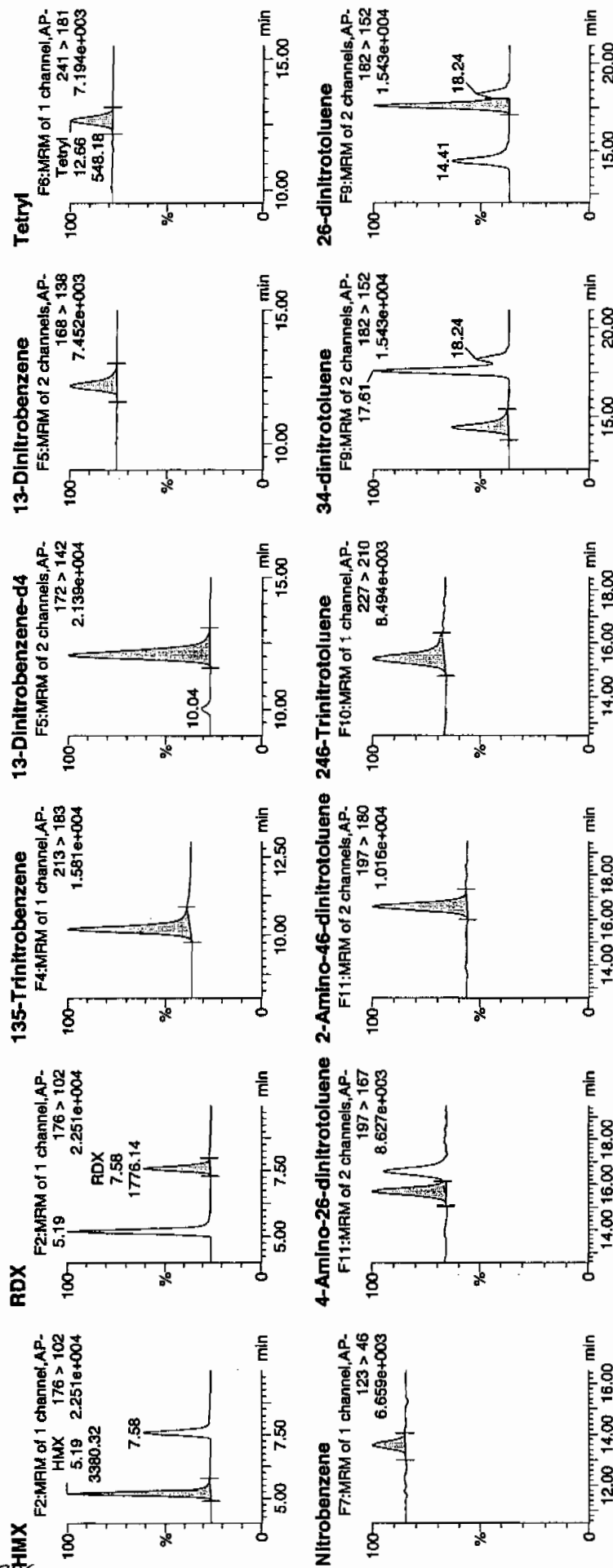
Date: 24-Mar-2010

Time: 03:20:06

ID: WXX100323-08CRI

Vial: 1:1,C

Page 1323 of 1706

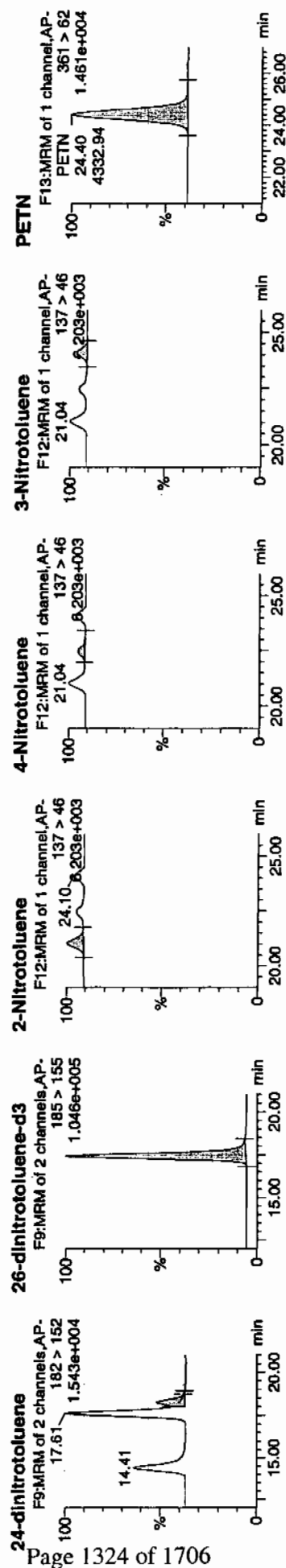


Handwritten note: 03/24/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 76 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Intg/Int	% Rec	% Dev	SN
WXX100323-08CRI	HMX	176 > 102	5.19	3380.315	6366.227	3380.315	265.488	bb			48.1558	120.4	20.4	244.5
WXX100323-08CRI	RDX	176 > 102	7.58	1776.142	6366.227	1776.142	139.497	bb			42.1277	105.3	5.3	115.1
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2747.295	6366.227	2747.295	215.771	bb			45.6542	114.1	14.1	337.5
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.06	6366.227	6366.227	6366.227	6366.227	bb			578.2987	115.7	15.7	491.1
WXX100323-08CRI	13-Dinitrobenzene	188 > 138	12.17	697.986	6366.227	697.986	54.819	bb			41.2814	103.2	3.2	80.2
WXX100323-08CRI	Tetryl	241 > 181	12.66	548.183	6366.227	548.183	43.054	bb			37.5418	93.9	-6.1	40.7
WXX100323-08CRI	Nitrobenzene	123 > 46	13.57	338.961	6366.227	338.961	26.622	bb			40.6345	101.6	1.6	24.8
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	1098.308	39177.973	1098.308	14.017	MM	24-Mar-10	09:22:26	39.6658	99.2	-0.8	60.9
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.57	1792.816	39177.973	1792.816	22.880	bb			41.7842	104.5	4.5	158.5
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.40	1291.005	39177.973	1291.005	16.476	bb			40.1788	100.4	0.4	66.9
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.41	1966.236	39177.973	1966.236	25.094	bb			23.6982	118.5	18.5	117.7
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.61	3627.584	39177.973	3627.584	46.296	MM	24-Mar-10	09:25:30	40.0136	100.0	0.0	277.8
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.24	933.307	39177.973	933.307	11.911	MM	24-Mar-10	09:29:08	42.9237	107.3	7.3	65.3
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.41	39177.973	39177.973	39177.973	39177.973	bb			568.9416	113.8	13.8	2337.2
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.04	263.285	39177.973	263.285	3.360	bb			41.6664	104.2	4.2	29.3
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.47	112.834	39177.973	112.834	1.440	bb			36.9796	92.4	-7.6	12.6
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.10	162.856	39177.973	162.856	2.078	bb			41.2210	103.1	3.1	18.7
WXX100323-08CRI	PETN	361 > 62	24.40	4332.945	39177.973	4332.945	55.298	bb			42.9795	107.4	7.4	2404.9

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 0320
 Standard Number WXX100323-08CRI
 Data File EXP0323038a

HMX	120.4
RDX	105.3
135-TNB	114.1
13-DNB	103.2
Tetryl	93.9
Nitrobenzene	101.6
4A-26-DNT	99.2
2A-46-DNT	104.5
246-TNT	100.4
34-DNT(surr)	118.5
26-DNT	100.0
24-DNT	107.3
2-NT	104.2
4-NT	92.4
3-NT	103.1
PETN	107.4

*Left
3/24/10*

Total 1675.5

Average 104.7

Handwritten 03/24/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323047a

Analysis Date: 24-MAR-10 07:45

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	615.829	103	
1,3-Dinitrobenzene-d4	500	538.76	108	
2,4,6-Trinitrotoluene	600	626.253	104	
2,4-Dinitrotoluene	600	632.264	105	
2,6-Dinitrotoluene	600	616.827	103	
2,6-Dinitrotoluene-d3	500	506.856	101	
2-Amino-4,6-dinitrotoluene	600	709.295	118	
3,4-Dinitrotoluene	300	329.347	110	
4-Amino-2,6-dinitrotoluene	600	664.121	111	
HMX	600	725.562	121	*
Nitrobenzene	600	556.166	93	
PETN	600	665.305	111	
RDX	600	706.667	118	
Tetryl	600	747.317	125	*
m-Dinitrobenzene	600	643.102	107	
m-Nitrotoluene	600	595.728	99	
o-Nitrotoluene	600	613.859	102	
p-Nitrotoluene	600	639.266	107	

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

Printed: Wed Mar 24 09:32:17 2010, Page 93 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0323047a

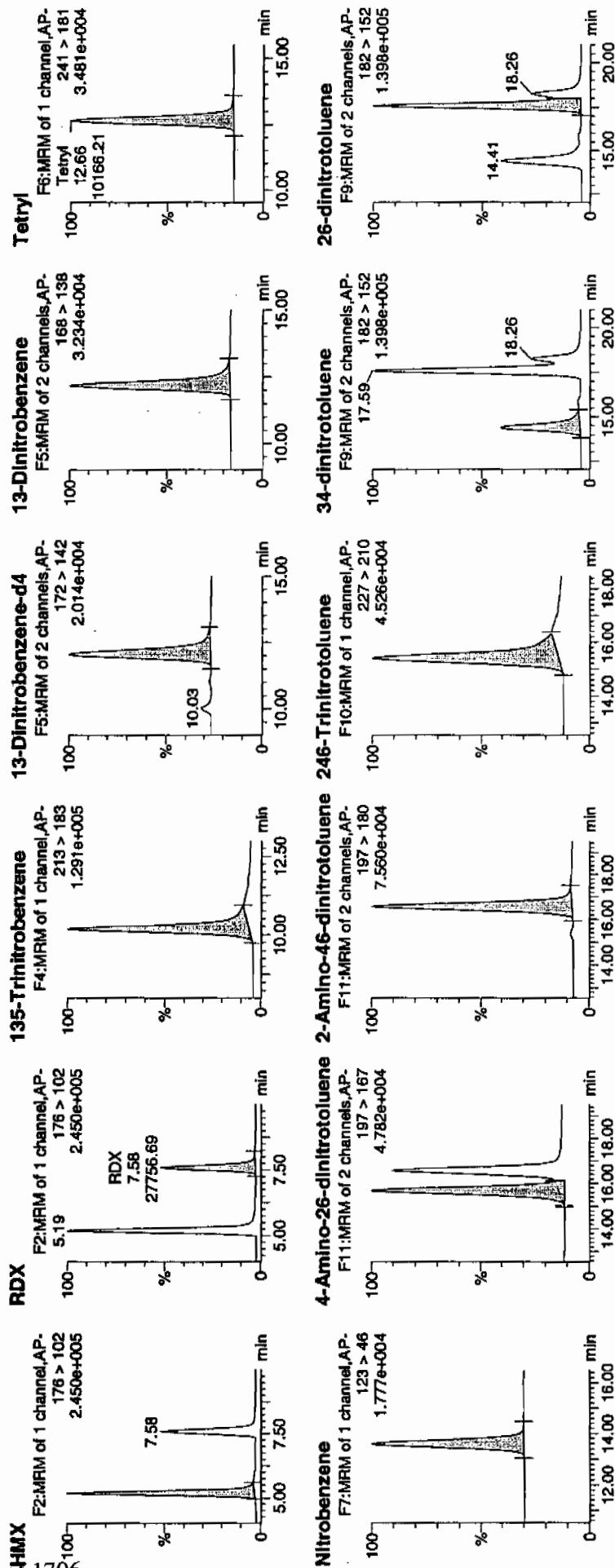
Date: 24-Mar-2010

Time: 07:45:25

ID: WXX100323-07CCV

Vial: 1:1,B

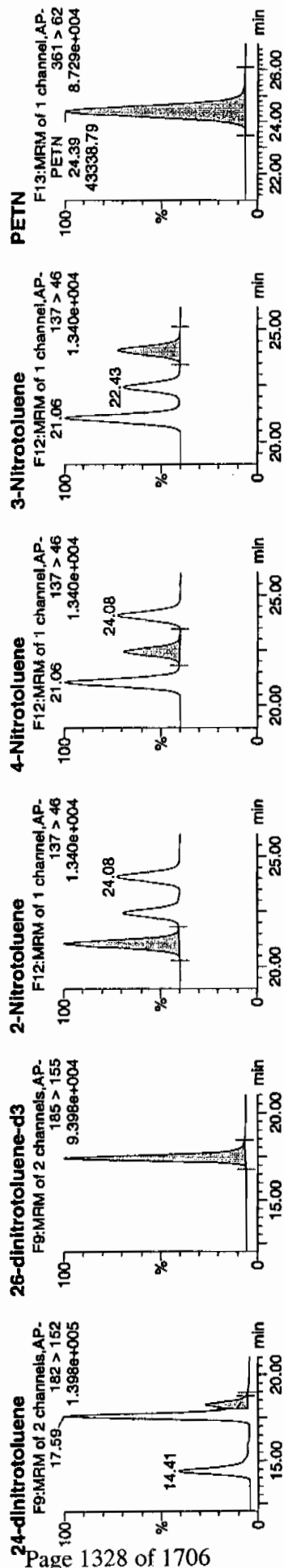
10/10/10



10/10/10

Quantify Sample Report
GGEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



Sample ID	Name	Trace	RT	Area	Area	Area	Response	Flag	Mod Date	Mod Time	Int	Rec	Dev	SN
WX100323-07CCV	HMx	176 > 102	5.19	47448.902	5930.965	47448.902	4000.100	bb			725.5619	120.9	20.9	2012.7
WX100323-07CCV	RDX	176 > 102	7.58	27756.693	5930.965	27756.693	2339.981	bb			706.6666	117.8	17.8	1026.7
WX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	34524.527	5930.965	34524.527	2910.532	bb			615.8288	102.6	2.6	3107.5
WX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	5930.965		5930.965	5930.965	bb			538.7602	107.8	7.8	1246.7
WX100323-07CCV	13-Dinitrobenzene	168 > 138	12.17	10130.145	5930.965	10130.145	854.005	bb			643.1023	107.2	7.2	838.1
WX100323-07CCV	Tetryl	241 > 181	12.66	10166.205	5930.965	10166.205	857.045	bb			747.3174	124.6	24.6	1380.8
WX100323-07CCV	Nitrobenzene	123 > 46	13.61	4322.172	5930.965	4322.172	364.373	bb			556.1658	92.7	-7.3	317.3
WX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.67	16382.168	34902.664	16382.168	234.684	MM	24-Mar-10	09:22:43	664.1205	110.7	10.7	999.7
WX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	27112.355	34902.664	27112.355	388.400	bb			709.2953	118.2	18.2	772.3
WX100323-07CCV	246-Trinitrotoluene	227 > 210	15.40	17926.559	34902.664	17926.559	256.808	bb			626.2525	104.4	4.4	874.3
WX100323-07CCV	34-dinitrotoluene	182 > 152	14.41	24343.902	34902.664	24343.902	348.740	bb			329.3468	109.8	9.8	550.2
WX100323-07CCV	26-dinitrotoluene	182 > 152	17.59	49818.395	34902.664	49818.395	713.676	MM	24-Mar-10	09:25:47	616.8272	102.8	2.8	1448.2
WX100323-07CCV	26-dinitrotoluene	182 > 152	18.26	12247.362	34902.664	12247.362	175.450	MM	24-Mar-10	09:29:23	632.2640	105.4	5.4	327.7
WX100323-07CCV	26-dinitrotoluene-d3	185 > 155	17.41	34902.664		34902.664	34902.664	bb			506.8557	101.4	1.4	2520.5
WX100323-07CCV	2-Nitrotoluene	137 > 46	21.06	3455.616	34902.664	3455.616	49.504	bb			613.8594	102.3	2.3	1006.8
WX100323-07CCV	4-Nitrotoluene	137 > 46	22.43	1737.705	34902.664	1737.705	24.894	bb			639.2662	106.5	6.5	487.0
WX100323-07CCV	3-Nitrotoluene	137 > 46	24.08	2096.766	34902.664	2096.766	30.037	bb			595.7285	99.3	-0.7	543.6
WX100323-07CCV	PETN	361 > 62	24.39	43338.785	34902.664	43338.785	620.852	bb			665.3052	110.9	10.9	4414.2

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 0745
 Standard Number: WXX100323-07CCV
 Data File: EXP0323047a

HMX	120.9
RDX	117.8
135-TNB	102.6
13-DNB	107.2
Tetryl	124.6
Nitrobenzene	92.7
4A-26-DNT	110.7
2A-46-DNT	118.2
246-TNT	104.4
34-DNT(surr)	109.8
26-DNT	102.8
24-DNT	105.4
2-NT	102.3
4-NT	106.5
3-NT	99.3
PETN	110.9

107
3/24/10

Total 1736.1

4mm 03/24/10

Average 108.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323049a

Analysis Date: 24-MAR-10 08:44

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	47.063	118	
1,3-Dinitrobenzene-d4	500	561.116	112	
2,4,6-Trinitrotoluene	40	37.222	93	
2,4-Dinitrotoluene	40	35.725	89	
2,6-Dinitrotoluene	40	41.3	103	
2,6-Dinitrotoluene-d3	500	588.805	118	
2-Amino-4,6-dinitrotoluene	40	41.485	104	
3,4-Dinitrotoluene	20	21.335	107	
4-Amino-2,6-dinitrotoluene	40	41.766	104	
HMX	40	49.844	125	
Nitrobenzene	40	34.492	86	
PETN	40	40.675	102	
RDX	40	45.987	115	
Tetryl	40	35.013	88	
m-Dinitrobenzene	40	36.691	92	
m-Nitrotoluene	40	40.219	101	
o-Nitrotoluene	40	41.552	104	
p-Nitrotoluene	40	34.803	87	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323049a

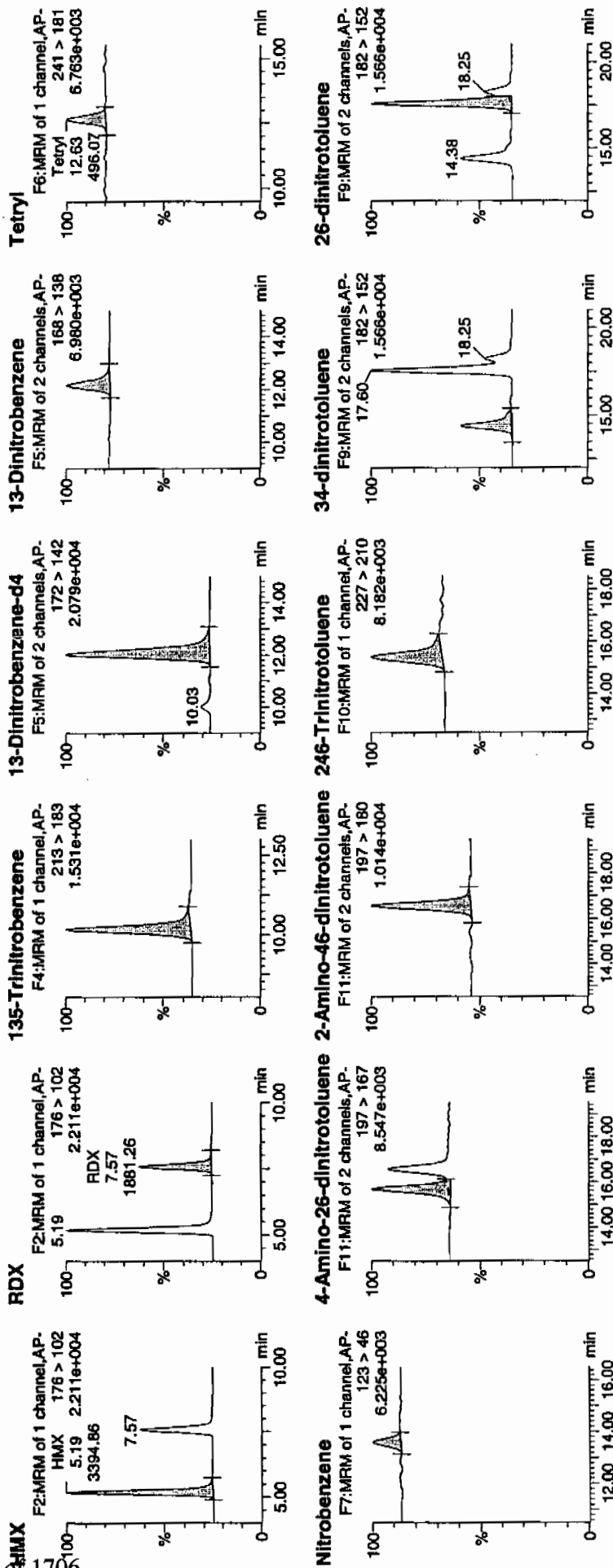
Date: 24-Mar-2010

Time: 08:44:30

ID: WXX100323-08CRI

Vial: 1:1,C

AP
1/24/10

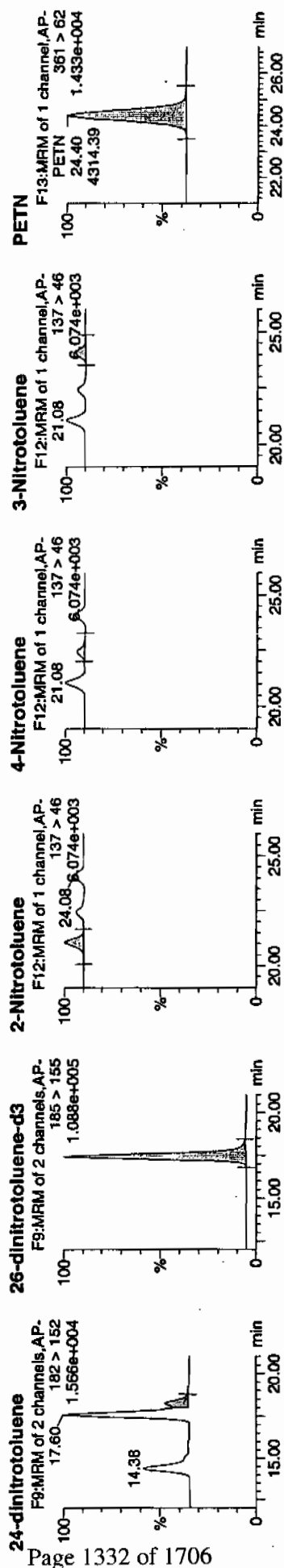


HW
03/24/10

Printed: Wed Mar 24 09:32:17 2010, Page 98 of 99

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	SN
WXX100323-08CRI	HMZ	176 > 102	5.19	3394.862	6177.075	274.795	bb	49.8440	124.6	24.6	373.8	
WXX100323-08CRI	RDX	176 > 102	7.57	1881.264	6177.075	152.278	bb	45.9874	115.0	15.0	183.8	
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2747.943	6177.075	222.431	bb	47.0633	117.7	17.7	189.1	
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	6177.075	6177.075	6177.075	bb	561.1164	112.2	12.2	723.8	
WXX100323-08CRI	13-Dinitrobenzene	168 > 138	12.17	601.941	6177.075	601.941	bb	36.6911	91.7	-8.3	69.4	
WXX100323-08CRI	Tetryl	241 > 181	12.63	496.068	6177.075	496.068	bb	35.0130	87.5	-12.5	65.5	
WXX100323-08CRI	Nitrobenzene	123 > 46	13.58	279.173	6177.075	279.173	bb	34.4920	86.2	-13.8	30.1	
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1196.828	40545.816	1196.828	bb	41.7657	104.4	4.4	70.6	
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	1842.135	40545.816	1842.135	MM	41.4853	103.7	3.7	179.8	
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.41	1237.761	40545.816	1237.761	bb	37.2222	93.1	-6.9	73.0	
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.38	1831.947	40545.816	1831.947	bb	21.3348	106.7	6.7	99.0	
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.60	3874.927	40545.816	3874.927	MM	41.3000	103.2	3.2	271.9	
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.25	803.896	40545.816	803.896	MM	35.7247	89.3	-10.7	50.9	
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	40545.816	40545.816	40545.816	bb	588.8054	117.8	17.8	2316.3	
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.08	271.729	40545.816	271.729	bb	41.5520	103.9	3.9	69.5	
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.45	109.900	40545.816	109.900	bb	34.8029	87.0	-13.0	27.8	
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.08	164.443	40545.816	164.443	bb	40.2185	100.5	0.5	37.2	
WXX100323-08CRI	PETN	361 > 62	24.40	4314.385	40545.816	4314.385	bb	40.6749	101.7	1.7	1131.0	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 0844
 Standard Number WXX100323-08CRI
 Data File EXP0323049a

HMX	124.6
RDX	115.0
135-TNB	117.7
13-DNB	91.7
Tetryl	87.5
Nitrobenzene	86.2
4A-26-DNT	104.4
2A-46-DNT	103.7
246-TNT	93.1
34-DNT(surr)	106.7
26-DNT	103.2
24-DNT	89.3
2-NT	103.9
4-NT	87.0
3-NT	100.5
PETN	101.7

*Left
3/24/10*

Total 1616.2

Average 101.0

4/24/10 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEI

GEL Sample ID: WXXCCV

GEL Data File EXP0323060a

Analysis Date: 24-MAR-10 14:09

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	604.385	101	
1,3-Dinitrobenzene-d4	500	548.392	110	
2,4,6-Trinitrotoluene	600	621.618	104	
2,4-Dinitrotoluene	600	608.236	101	
2,6-Dinitrotoluene	600	621.134	104	
2,6-Dinitrotoluene-d3	500	506.964	101	
2-Amino-4,6-dinitrotoluene	600	684.662	114	
3,4-Dinitrotoluene	300	322.305	107	
4-Amino-2,6-dinitrotoluene	600	630.304	105	
HMX	600	657.135	110	
Nitrobenzene	600	550.129	92	
PETN	600	695.76	116	
RDX	600	686.53	114	
Tetryl	600	664.922	111	
m-Dinitrobenzene	600	583.785	97	
m-Nitrotoluene	600	566.141	94	
o-Nitrotoluene	600	573.454	96	
p-Nitrotoluene	600	620.413	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Thu Mar 25 10:04:08 2010, Page 21 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323060a

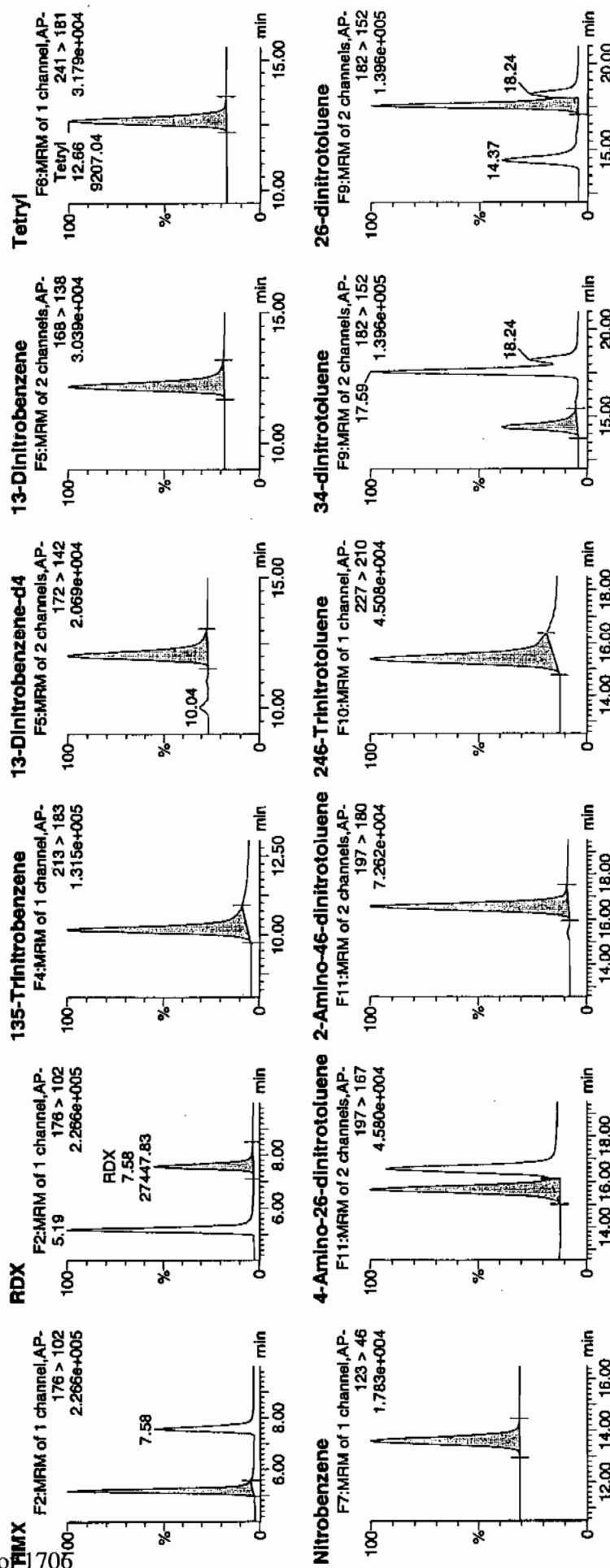
Date: 24-Mar-2010

Time: 14:09:10

ID: WXX100323-07CCV

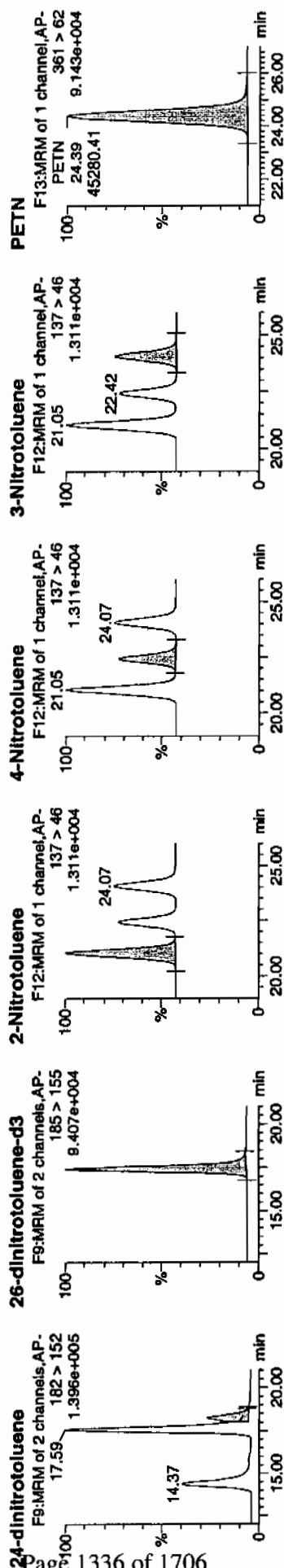
Vial: 1:1,B

MMT
3/25/10



MMT
3/25/10

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	Area	IS Area	Abundance	Response	Flags	Mod Date	Mod Time	Int Time	%Rec	%Dev	SN
WXX100323-07CCV	HMX	176 > 102	5.19	43742.363	6036.998	43742.363	3622.857	bb		657.1354	109.5	9.5	3230.7
WXX100323-07CCV	RDX	176 > 102	7.58	27447.834	6036.998	27447.834	2273.302	bb		686.5296	114.4	14.4	1745.9
WXX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	34488.707	6036.998	34488.707	2856.445	bb		604.3848	100.7	0.7	2131.1
WXX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	6036.998	6036.998	6036.998	6036.998	bb		548.3920	109.7	9.7	711.8
WXX100323-07CCV	13-Dinitrobenzene	168 > 138	12.17	9360.186	6036.998	9360.186	775.235	bb		583.7853	97.3	-2.7	483.8
WXX100323-07CCV	Tetryl	241 > 181	12.66	9207.037	6036.998	9207.037	762.551	bb		664.9216	110.8	10.8	1037.8
WXX100323-07CCV	Nitrobenzene	123 > 46	13.61	4351.687	6036.998	4351.687	360.418	bb		550.1286	91.7	-8.3	497.7
WXX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.67	15551.311	34910.121	15551.311	222.734	MM	25-Mar-10 09:51:43	630.3035	105.1	5.1	665.1
WXX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	26176.338	34910.121	26176.338	374.910	bb		684.6616	114.1	14.1	1272.0
WXX100323-07CCV	246-Trinitrotoluene	227 > 210	15.40	17797.695	34910.121	17797.695	254.907	bb		621.6180	103.6	3.6	1321.8
WXX100323-07CCV	34-dinitrotoluene	182 > 152	14.37	23828.494	34910.121	23828.494	341.283	bb		322.3051	107.4	7.4	569.6
WXX100323-07CCV	26-dinitrotoluene	182 > 152	17.59	50176.918	34910.121	50176.918	718.659	MM	25-Mar-10 09:54:08	621.1336	103.5	3.5	1563.4
WXX100323-07CCV	24-dinitrotoluene	182 > 152	18.24	11784.438	34910.121	11784.438	168.783	MM	25-Mar-10 09:54:53	608.2359	101.4	1.4	345.7
WXX100323-07CCV	26-dinitrotoluene-d3	185 > 155	17.41	34910.121	34910.121	34910.121	34910.121	bb		506.9640	101.4	1.4	2996.7
WXX100323-07CCV	2-Nitrotoluene	137 > 46	21.05	3228.849	34910.121	3228.849	46.245	bb		573.4537	95.6	-4.4	841.0
WXX100323-07CCV	4-Nitrotoluene	137 > 46	22.42	1686.817	34910.121	1686.817	24.159	bb		620.4130	103.4	3.4	499.7
WXX100323-07CCV	3-Nitrotoluene	137 > 46	24.07	1993.055	34910.121	1993.055	28.546	bb		566.1414	94.4	-5.6	479.4
WXX100323-07CCV	PETN	361 > 62	24.39	45280.410	34910.121	45280.410	648.528	bb		695.7597	116.0	16.0	8326.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 1409
 Standard Number: WXX100323-07CCV
 Data File: EXP0323060a

HMX	109.5
RDX	114.4
135-TNB	100.7
13-DNB	97.3
Tetryl	110.8
Nitrobenzene	91.7
4A-26-DNT	105.1
2A-46-DNT	114.1
246-TNT	103.6
34-DNT(surr)	107.4
26-DNT	103.5
24-DNT	101.4
2-NT	95.6
4-NT	103.4
3-NT	94.4
PETN	116.0

Total 1668.9

Average 104.3

ICV Limits 85-115%
 CRI Limits 70-130%
 CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323062a

Analysis Date: 24-MAR-10 15:08

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	40.931	102	
2,6-Dinitrotoluene-d3	500	511.226	102	
2-Amino-4,6-dinitrotoluene	40	42.212	106	
3,4-Dinitrotoluene	20	20.154	101	
4-Amino-2,6-dinitrotoluene	40	45.676	114	
HMX	40	49.198	123	
Nitrobenzene	40	38.032	95	
PETN	40	49.873	125	
RDX	40	45.935	115	
Tetryl	40	33.148	83	
m-Dinitrobenzene	40	41.369	103	
m-Nitrotoluene	40	45.001	113	
o-Nitrotoluene	40	40.488	101	
p-Nitrotoluene	40	49.369	123	
1,3,5-Trinitrobenzene	40	46.814	117	
1,3-Dinitrobenzene-d4	500	532.654	107	
2,4,6-Trinitrotoluene	40	39.494	99	
2,4-Dinitrotoluene	40	39.566	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Thu Mar 25 10:04:08 2010, Page 25 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0323062a

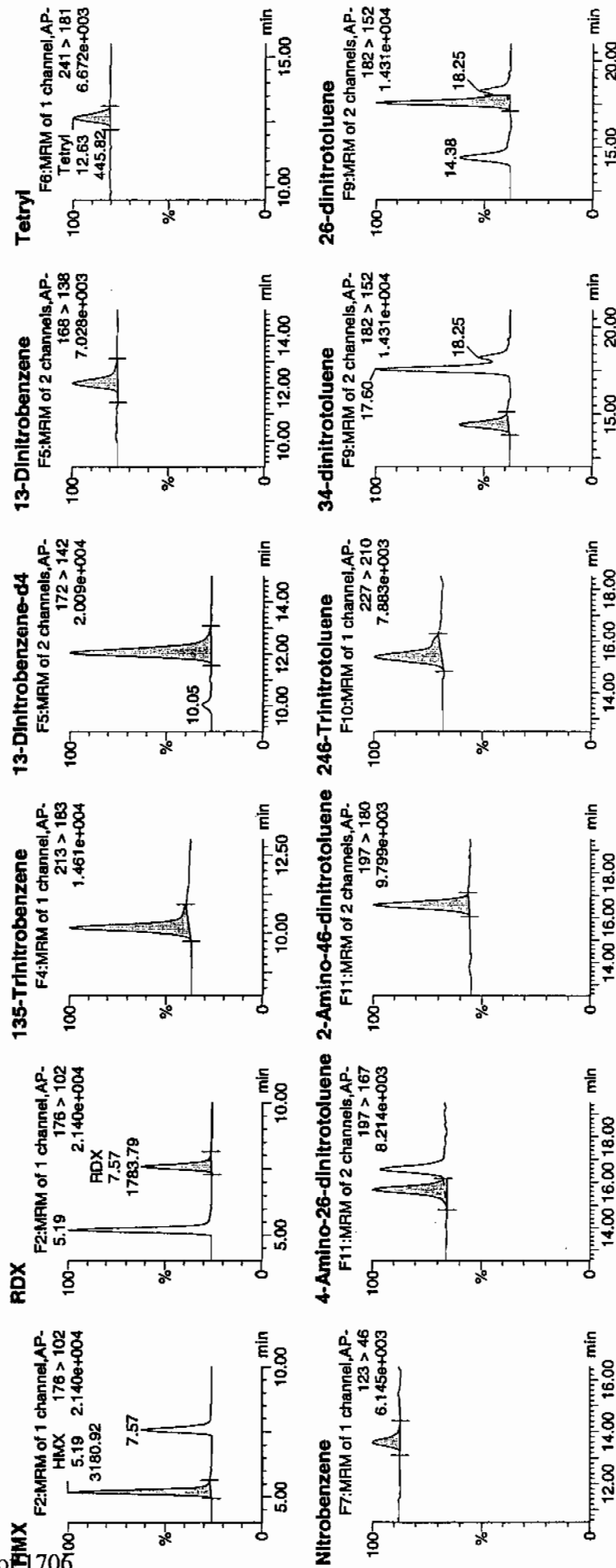
Date: 24-Mar-2010

Time: 15:08:15

ID: WXX100323-08CRI

Vial: 1:1,C

WXX
3/25/10

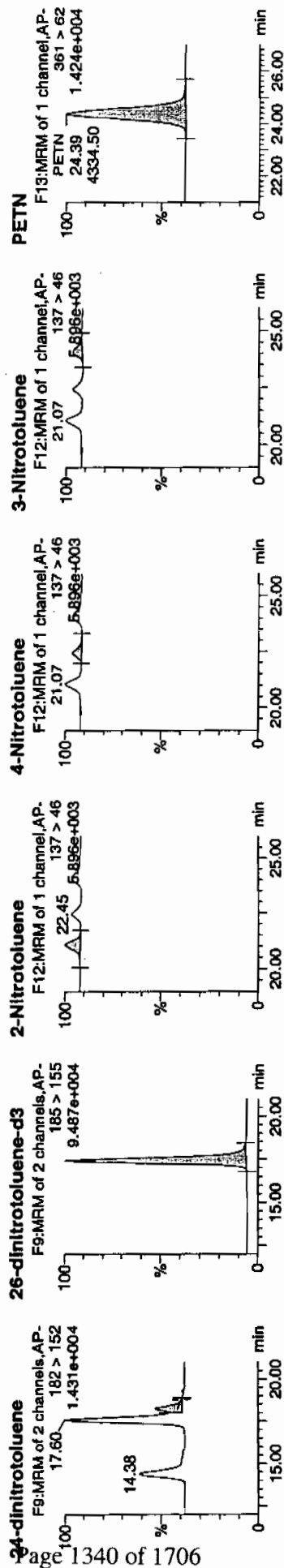


WXX
03/25/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	Area	IS Area	Abs. Resp.	Response	Flag	Mod Date	Mod Time	Into ml	Pk Rec	Dev	S/N
WXX100323-08CRI	HMX	176 > 102	5.19	3180.919	5863.745	3180.919	271.236	bb		49.1984	123.0	23.0	364.4
WXX100323-08CRI	RDX	176 > 102	7.57	1783.786	5863.745	1783.786	152.103	bb		45.9346	114.8	14.8	178.7
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2594.742	5863.745	2594.742	221.253	bb		46.8141	117.0	17.0	344.8
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	5863.745	5863.745	5863.745	5863.745	bb		532.6540	106.5	6.5	291.7
WXX100323-08CRI	13-Dinitrobenzene	168 > 138	12.17	644.265	5863.745	644.265	54.936	bb		41.3694	103.4	3.4	82.9
WXX100323-08CRI	Tetryl	241 > 181	12.63	445.823	5863.745	445.823	38.015	bb		33.1481	82.9	-17.1	48.8
WXX100323-08CRI	Nitrobenzene	123 > 46	13.58	292.209	5863.745	292.209	24.917	bb		38.0317	95.1	-4.9	31.3
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1136.421	35203.633	1136.421	16.141	MM	25-Mar-10 09:51:30	45.6758	114.2	14.2	85.2
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	1627.422	35203.633	1627.422	23.114	bb		42.2115	105.5	5.5	270.5
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.38	1140.271	35203.633	1140.271	16.195	bb		39.4941	98.7	-1.3	204.8
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.38	1502.517	35203.633	1502.517	21.340	bb		20.1537	100.8	0.8	85.5
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.60	3334.314	35203.633	3334.314	47.358	MM	25-Mar-10 09:53:57	40.9309	102.3	2.3	230.9
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.25	773.021	35203.633	773.021	10.979	MM	25-Mar-10 09:55:05	39.5856	98.9	-1.1	51.6
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	35203.633	35203.633	35203.633	35203.633	bb		511.2263	102.2	2.2	1785.3
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.07	229.888	35203.633	229.888	3.265	bb		40.4884	101.2	1.2	13.8
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.45	135.355	35203.633	135.355	1.922	bb		49.3686	123.4	23.4	8.5
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.08	159.755	35203.633	159.755	2.269	bb		45.0012	112.5	12.5	8.2
WXX100323-08CRI	PETN	361 > 62	24.39	4334.500	35203.633	4334.500	61.563	bb		49.8734	124.7	24.7	2622.3

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 1508
 Standard Number WXX100323-08CRI
 Data File EXP0323062a

HMX	123.0
RDX	114.8
135-TNB	117.0
13-DNB	103.4
Tetryl	82.9
Nitrobenzene	95.1
4A-26-DNT	114.2
2A-46-DNT	105.5
246-TNT	98.7
34-DNT(surr)	100.8
26-DNT	102.3
24-DNT	98.9
2-NT	101.2
4-NT	123.4
3-NT	112.5
PETN	124.7

*MTT
3/25/10*

Total 1718.4

Average ✓ 107.4

4mm-03/26/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323073a

Analysis Date: 24-MAR-10 20:32

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	554.828	92	
PETN	600	616.441	103	
RDX	600	744.483	124	*
Tetryl	600	643.441	107	
m-Dinitrobenzene	600	609.77	102	
m-Nitrotoluene	600	564.619	94	
o-Nitrotoluene	600	556.422	93	
p-Nitrotoluene	600	604.392	101	
1,3,5-Trinitrobenzene	600	614.756	102	
1,3-Dinitrobenzene-d4	500	522.463	104	
2,4,6-Trinitrotoluene	600	589.476	98	
2,4-Dinitrotoluene	600	592.8	99	
2,6-Dinitrotoluene	600	620.842	103	
2,6-Dinitrotoluene-d3	500	523.063	105	
2-Amino-4,6-dinitrotoluene	600	653.711	109	
3,4-Dinitrotoluene	300	331.414	110	
4-Amino-2,6-dinitrotoluene	600	584.736	97	
HMX	600	700.223	117	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323073a

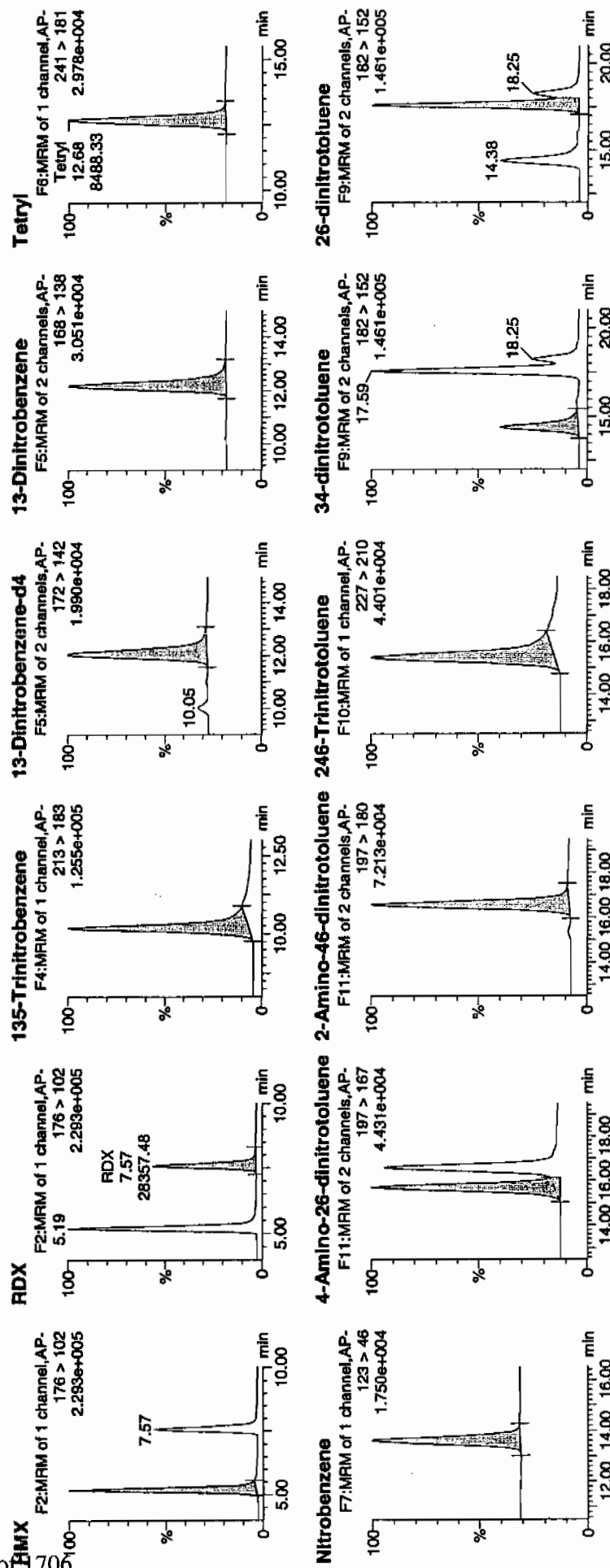
Date: 24-Mar-2010

Time: 20:32:44

ID: WXX100323-07CCV

Vial: 1:1,B

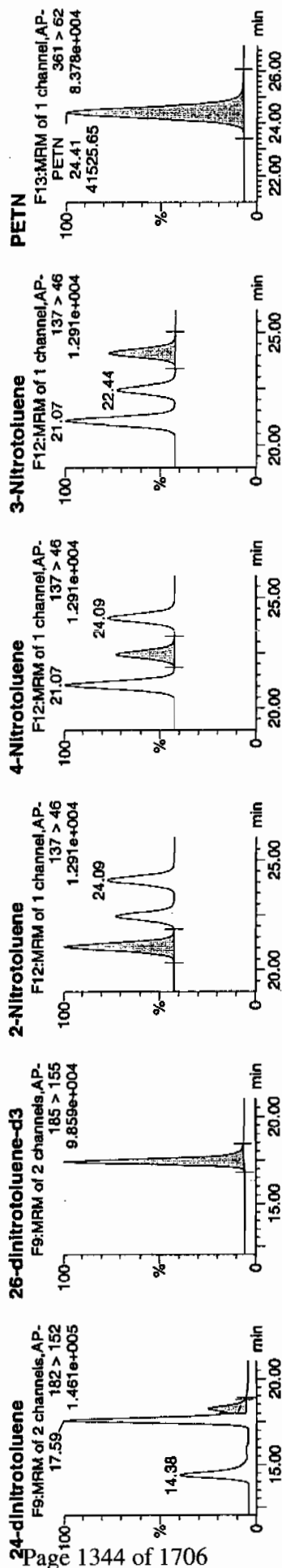
WXX
3/25/10



WXX
3/30/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



DI	Name	Trace	RT	Area	SA Area	Abundance	Response	Flags	Mod Date	Mod Time	Area	Dev	SN
WXX100323-07CCV	HMX	176 > 102	5.19	44406.648	5751.553	44406.648	3860.405	bb			700.2232	116.7	2471.9
WXX100323-07CCV	RDX	176 > 102	7.57	28357.484	5751.553	28357.484	2465.202	bb			744.4830	124.1	1368.0
WXX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	33421.820	5751.553	33421.820	2905.460	bb			614.7557	102.5	2.5 4184.4
WXX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	5751.553	5751.553	5751.553	5751.553	bb			522.4626	104.5	4.5 851.9
WXX100323-07CCV	13-Dinitrobenzene	168 > 138	12.17	9314.544	5751.553	9314.544	809.742	bb			609.7702	101.6	1.6 1068.7
WXX100323-07CCV	Tetryl	241 > 181	12.68	8488.331	5751.553	8488.331	737.916	bb			643.4410	107.2	7.2 596.2
WXX100323-07CCV	Nitrobenzene	123 > 46	13.59	4181.346	5751.553	4181.346	363.497	bb			554.8283	92.5	-7.5 468.8
WXX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	14885.194	36018.738	14885.194	206.631	MM	25-Mar-10	09:50:58	584.7364	97.5	-2.5 369.4
WXX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	25786.691	36018.738	25786.691	357.962	bb			653.7106	109.0	9.0 856.8
WXX100323-07CCV	246-Trinitrotoluene	227 > 210	15.41	17413.396	36018.738	17413.396	241.727	bb			589.4760	98.2	-1.8 951.3
WXX100323-07CCV	34-dinitrotoluene	182 > 152	14.38	25280.021	36018.738	25280.021	350.929	bb			331.4140	110.5	10.5 514.9
WXX100323-07CCV	26-dinitrotoluene	182 > 152	17.59	51746.059	36018.738	51746.059	718.321	MM	25-Mar-10	09:53:29	620.8421	103.5	3.5 1380.3
WXX100323-07CCV	24-dinitrotoluene	182 > 152	18.25	11850.105	36018.738	11850.105	164.499	MM	25-Mar-10	09:55:37	592.8000	98.8	-1.2 288.5
WXX100323-07CCV	26-dinitrotoluene-d3	185 > 155	17.42	36018.738	36018.738	36018.738	36018.738	bb			523.0633	104.6	4.6 3179.3
WXX100323-07CCV	2-Nitrotoluene	137 > 46	21.07	3232.440	36018.738	3232.440	44.872	bb			556.4216	92.7	-7.3 497.7
WXX100323-07CCV	4-Nitrotoluene	137 > 46	22.44	1695.442	36018.738	1695.442	23.536	bb			604.3920	100.7	0.7 259.8
WXX100323-07CCV	3-Nitrotoluene	137 > 46	24.09	2050.817	36018.738	2050.817	28.469	bb			564.6189	94.1	-5.9 298.9
WXX100323-07CCV	PETN	361 > 62	24.41	41525.652	36018.738	41525.652	576.445	bb			616.4405	102.7	2.7 9200.2

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/24/10
 Time of Injection: 2032
 Standard Number: WXX100323-07CCV
 Data File: EXP0323073a

HMX	116.7
RDX	124.1
135-TNB	102.5
13-DNB	101.6
Tetryl	107.2
Nitrobenzene	92.5
4A-26-DNT	97.5
2A-46-DNT	109.0
246-TNT	98.2
34-DNT(surr)	110.5
26-DNT	103.5
24-DNT	98.8
2-NT	92.7
4-NT	100.7
3-NT	94.1
PETN	102.7

*MTF
3/15/10*

Total 1652.3

Average 103.3

WXX-0323073a/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323075a

Analysis Date: 24-MAR-10 21:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	39.31	98	
o-Nitrotoluene	40	43.28	108	
p-Nitrotoluene	40	46.096	115	
1,3,5-Trinitrobenzene	40	42.138	105	
1,3-Dinitrobenzene-d4	500	553.539	111	
2,4,6-Trinitrotoluene	40	46.316	116	
2,4-Dinitrotoluene	40	36.984	92	
2,6-Dinitrotoluene	40	39.831	100	
2,6-Dinitrotoluene-d3	500	506.439	101	
2-Amino-4,6-dinitrotoluene	40	48.191	120	
3,4-Dinitrotoluene	20	21.606	108	
4-Amino-2,6-dinitrotoluene	40	45.583	114	
HMX	40	48.458	121	
Nitrobenzene	40	40.356	101	
PETN	40	47.787	119	
RDX	40	37.909	95	
Tetryl	40	32.701	82	
m-Dinitrobenzene	40	43.028	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323075a

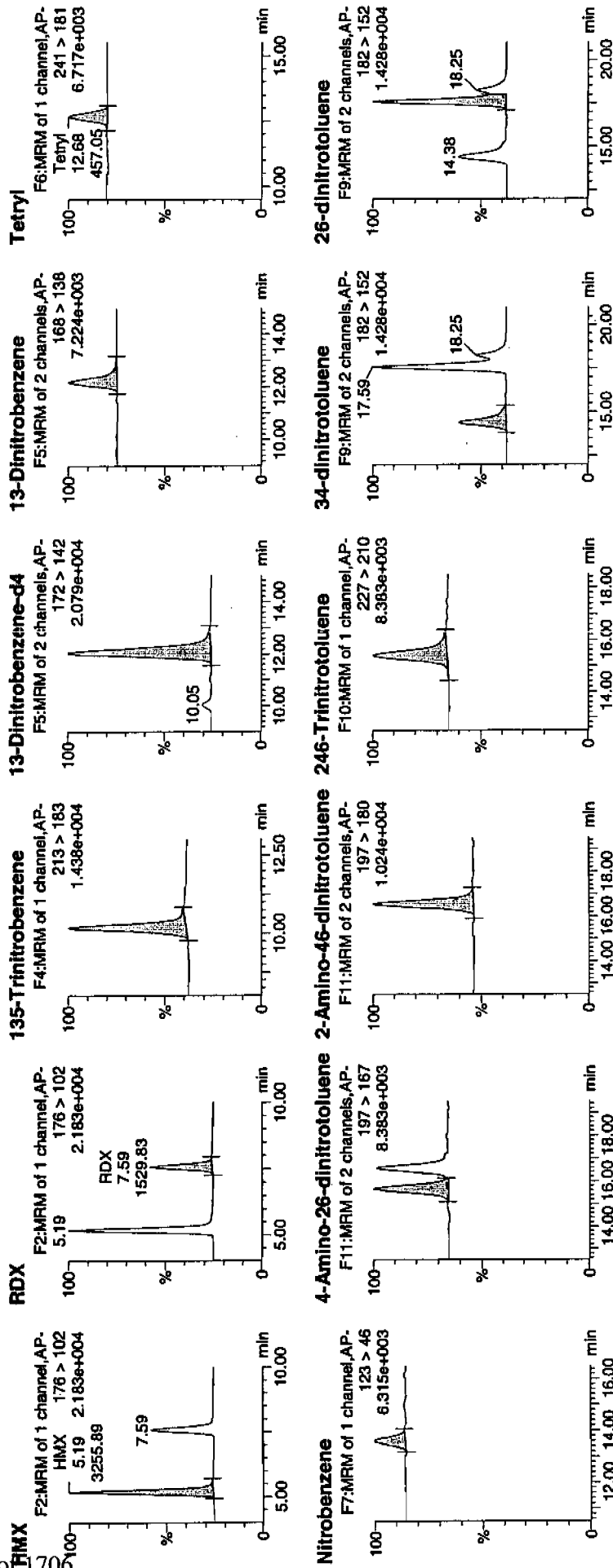
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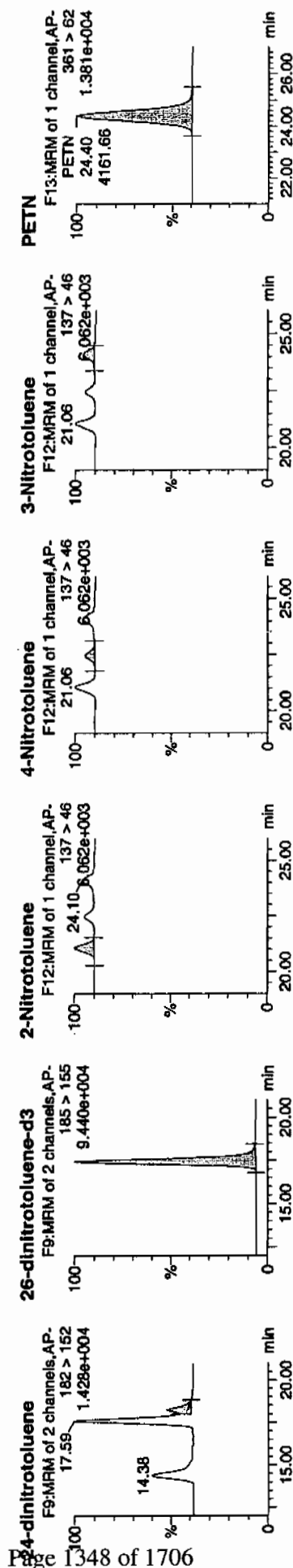
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Wt
3/25/10



Handwritten: 03/30/10

Dataset: C:\MASSLYN\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



Name	ID	Trcs	Hi	Area	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/mL	Rec	Dev	SN
HMX	WYXX100323-08CRI	176 > 102	5.19	3255.886	6093.655	6093.655	3255.888	267.154	bb			48.4580	121.1	21.1	619.2
RDX	WYXX100323-08CRI	176 > 102	7.59	1529.832	6093.655	6093.655	1529.832	125.527	bb			37.9086	94.8	-5.2	265.0
135-Trinitrobenzene	WYXX100323-08CRI	213 > 183	10.18	2427.149	6093.655	6093.655	2427.149	199.154	bb			42.1382	105.3	5.3	186.2
13-Dinitrobenzene-d4	WYXX100323-08CRI	172 > 142	12.03	6093.655	6093.655	6093.655	6093.655	6093.655	bb			553.5387	110.7	10.7	238.6
13-Dinitrobenzene	WYXX100323-08CRI	168 > 138	12.17	696.367	6093.655	6093.655	696.367	57.139	bb			43.0279	107.6	7.6	54.5
Tetryl	WYXX100323-08CRI	241 > 181	12.68	457.050	6093.655	6093.655	457.050	37.502	bb			32.7007	81.8	-18.2	41.5
Nitrobenzene	WYXX100323-08CRI	123 > 46	13.59	322.227	6093.655	6093.655	322.227	26.440	bb			40.3563	100.9	0.9	30.4
4-Amino-26-dinitrotoluene	WYXX100323-08CRI	197 > 167	15.68	1123.497	34874.004	34874.004	1123.497	16.108	MM	25-Mar-10	09:50:49	45.5831	114.0	14.0	111.1
2-Amino-46-dinitrotoluene	WYXX100323-08CRI	197 > 180	16.57	1840.540	34874.004	34874.004	1840.540	26.388	bb			48.1805	120.5	20.5	286.6
246-Trinitrotoluene	WYXX100323-08CRI	227 > 210	15.41	1324.708	34874.004	34874.004	1324.708	18.993	bb			46.3158	115.8	15.8	106.4
34-dinitrotoluene	WYXX100323-08CRI	182 > 152	14.38	1595.741	34874.004	34874.004	1595.741	22.879	bb			21.6064	108.0	8.0	62.1
26-dinitrotoluene	WYXX100323-08CRI	182 > 152	17.59	3214.292	34874.004	34874.004	3214.292	46.084	MM	25-Mar-10	09:53:17	39.8305	99.5	-0.4	174.4
24-dinitrotoluene	WYXX100323-08CRI	182 > 152	18.25	715.812	34874.004	34874.004	715.812	10.263	MM	25-Mar-10	09:55:44	36.9838	92.5	-7.5	36.7
26-dinitrotoluene-d3	WYXX100323-08CRI	185 > 155	17.42	34874.004	34874.004	34874.004	34874.004	34874.004	bb			506.4395	101.3	1.3	2587.5
2-Nitrotoluene	WYXX100323-08CRI	137 > 46	21.06	243.438	34874.004	34874.004	243.438	3.490	bb			43.2801	108.2	8.2	54.2
4-Nitrotoluene	WYXX100323-08CRI	137 > 46	22.46	125.199	34874.004	34874.004	125.199	1.795	bb			46.0960	115.2	15.2	27.5
3-Nitrotoluene	WYXX100323-08CRI	137 > 46	24.10	138.245	34874.004	34874.004	138.245	1.982	bb			39.3101	98.3	-1.7	29.3
PETN	WYXX100323-08CRI	361 > 62	24.40	4161.663	34874.004	34874.004	4161.663	59.667	bb			47.7870	119.5	19.5	787.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/24/10
 Time of Injection 2131
 Standard Number WXX100323-08CRI
 Data File EXP0323075a

HMX	121.1
RDX	94.8
135-TNB	105.3
13-DNB	107.6
Tetryl	81.8
Nitrobenzene	100.9
4A-26-DNT	114.0
2A-46-DNT	120.5
246-TNT	115.8
34-DNT(surr)	108.0
26-DNT	99.6
24-DNT	92.5
2-NT	108.2
4-NT	115.2
3-NT	98.3
PETN	119.5

*MATT
3/25/10*

Total 1703.1

Average 106.4

Hmm 03/23/10
 ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323086a

Analysis Date: 25-MAR-10 02:56

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	627.667	105	
1,3-Dinitrobenzene-d4	500	504.526	101	
2,4,6-Trinitrotoluene	600	679.029	113	
2,4-Dinitrotoluene	600	620.586	103	
2,6-Dinitrotoluene	600	624.642	104	
2,6-Dinitrotoluene-d3	500	504.256	101	
2-Amino-4,6-dinitrotoluene	600	682.194	114	
3,4-Dinitrotoluene	300	313.846	105	
4-Amino-2,6-dinitrotoluene	600	664.25	111	
HMX	600	696.785	116	
Nitrobenzene	600	570.28	95	
PETN	600	640.462	107	
RDX	600	745.79	124	*
Tetryl	600	637.648	106	
m-Dinitrobenzene	600	646.266	108	
m-Nitrotoluene	600	590.436	98	
o-Nitrotoluene	600	610.011	102	
p-Nitrotoluene	600	645.81	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 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Thu Mar 25 10:04:08 2010, Page 73 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0323086a

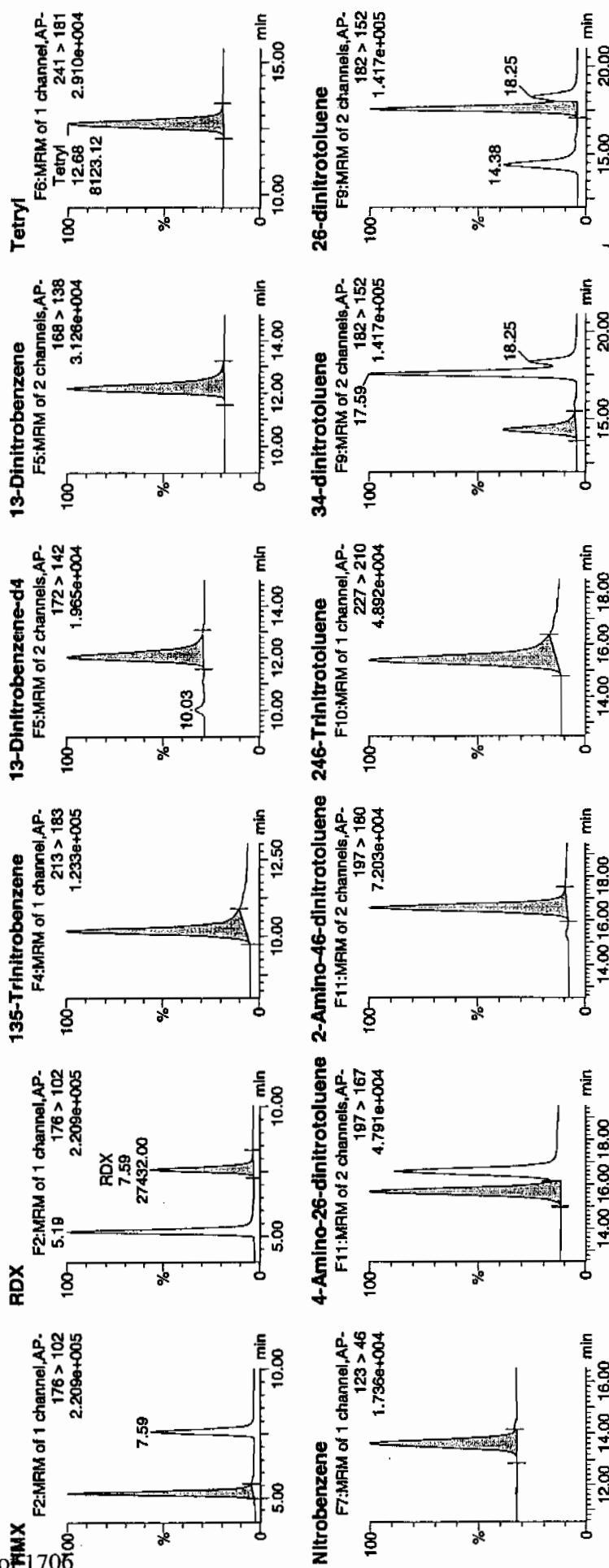
Date: 25-Mar-2010

Time: 02:56:28

ID: WXX100323-07CCV

Vial: 1:1,B

1.17
3/25/10

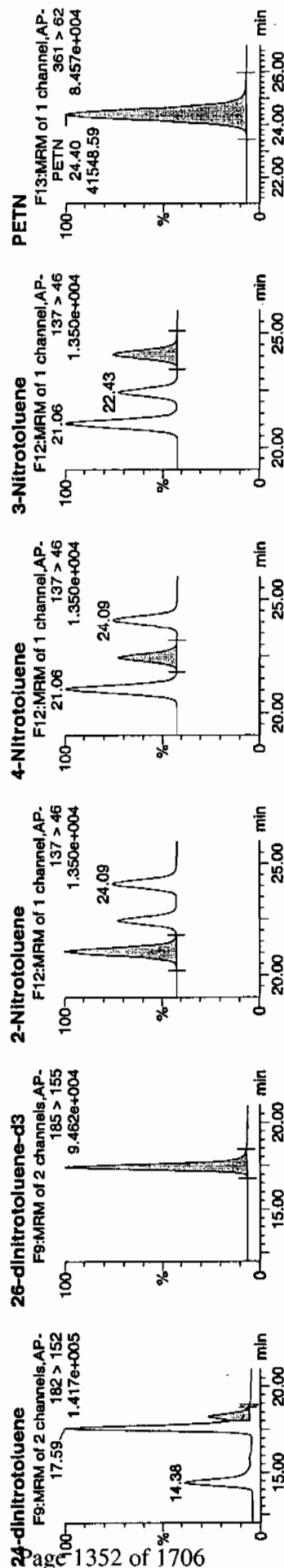


1.17
3/25/10

Printed: Thu Mar 25 10:04:08 2010, Page 74 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



Name	Trace	RT	Area	IS Area	Abund	Response	Flags	Mod Date	Mod Time	Area/ML	%Rec	%Dev	ISN
HMx	176 > 102	5.19	42671.582	5554.096	42671.582	3841.452	bb			696.7854	116.1	16.1	3720.9
RDx	176 > 102	7.59	27431.998	5554.096	27431.998	2469.529	bb			745.7895	124.3	24.3	2068.0
135-Trinitrobenzene	213 > 183	10.18	32952.270	5554.096	32952.270	2966.484	bb			627.6674	104.6	4.6	3321.5
13-Dinitrobenzene-d4	172 > 142	12.04	5554.096		5554.096	5554.096	bb			504.5259	100.9	0.9	420.3
13-Dinitrobenzene	168 > 138	12.17	9533.115	5554.096	9533.115	858.206	bb			646.2658	107.7	7.7	1843.1
Tetryl	241 > 181	12.68	8123.120	5554.096	8123.120	731.273	bb			637.6481	106.3	6.3	1168.8
Nitrobenzene	123 > 46	13.62	4150.247	5554.096	4150.247	373.620	bd			570.2800	95.0	-5.0	193.1
4-Amino-26-dinitrotoluene	197 > 167	15.67	16301.315	34723.652	16301.315	234.729	MM	25-Mar-10	09:50:26	664.2497	110.7	10.7	383.4
2-Amino-46-dinitrotoluene	197 > 180	16.57	25942.693	34723.652	25942.693	373.559	bb			682.1943	113.7	13.7	1273.2
246-Trinitrotoluene	227 > 210	15.41	19337.607	34723.652	19337.607	278.450	bb			679.0292	113.2	13.2	1781.7
34-dinitrotoluene	182 > 152	14.38	23079.199	34723.652	23079.199	332.327	bb			313.8464	104.6	4.6	971.2
26-dinitrotoluene	182 > 152	17.59	50190.801	34723.652	50190.801	722.718	MM	25-Mar-10	09:52:47	624.6419	104.1	4.1	2736.5
24-dinitrotoluene	182 > 152	18.25	11959.500	34723.652	11959.500	172.210	MM	25-Mar-10	09:56:15	620.5862	103.4	3.4	597.4
26-dinitrotoluene-d3	185 > 155	17.42	34723.652	34723.652	34723.652	34723.652	bb			504.2561	100.9	0.9	2984.2
2-Nitrotoluene	137 > 46	21.06	3416.337	34723.652	3416.337	49.193	bb			610.0105	101.7	1.7	306.9
4-Nitrotoluene	137 > 46	22.43	1746.488	34723.652	1746.488	25.148	bb			645.8096	107.6	7.6	162.2
3-Nitrotoluene	137 > 46	24.09	2067.481	34723.652	2067.481	29.771	bb			590.4364	98.4	-1.6	177.0
PETN	361 > 62	24.40	41548.586	34723.652	41548.586	598.275	bb			640.4618	106.7	6.7	4903.6

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/25/10
 Time of Injection: 0256
 Standard Number: WXX100323-07CCV
 Data File: EXP0323086a

HMX	116.1
RDX	124.3
135-TNB	104.6
13-DNB	107.7
Tetryl	106.3
Nitrobenzene	95.0
4A-26-DNT	110.7
2A-46-DNT	113.7
246-TNT	113.2
34-DNT(surr)	104.6
26-DNT	104.1
24-DNT	103.4
2-NT	101.7
4-NT	107.6
3-NT	98.4
PETN	106.7

*HAFT
3/25/10*

Total 1718.1

Average 107.4

HAFT 03/30/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323088a

Analysis Date: 25-MAR-10 03:55

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	46.173	115	
1,3-Dinitrobenzene-d4	500	518.214	104	
2,4,6-Trinitrotoluene	40	34.381	86	
2,4-Dinitrotoluene	40	43.369	108	
2,6-Dinitrotoluene	40	40.086	100	
2,6-Dinitrotoluene-d3	500	516.231	103	
2-Amino-4,6-dinitrotoluene	40	41.014	103	
3,4-Dinitrotoluene	20	22.502	113	
4-Amino-2,6-dinitrotoluene	40	35.545	89	
HMX	40	48.713	122	
Nitrobenzene	40	47.555	119	
PETN	40	45.248	113	
RDX	40	45.379	113	
Tetryl	40	35.304	88	
m-Dinitrobenzene	40	42.2	105	
m-Nitrotoluene	40	42.198	105	
o-Nitrotoluene	40	41.084	103	
p-Nitrotoluene	40	50.525	126	

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

Printed: Thu Mar 25 10:04:08 2010, Page 77 of 79

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNX\NEW_EXP\PROData\EXP0323088a

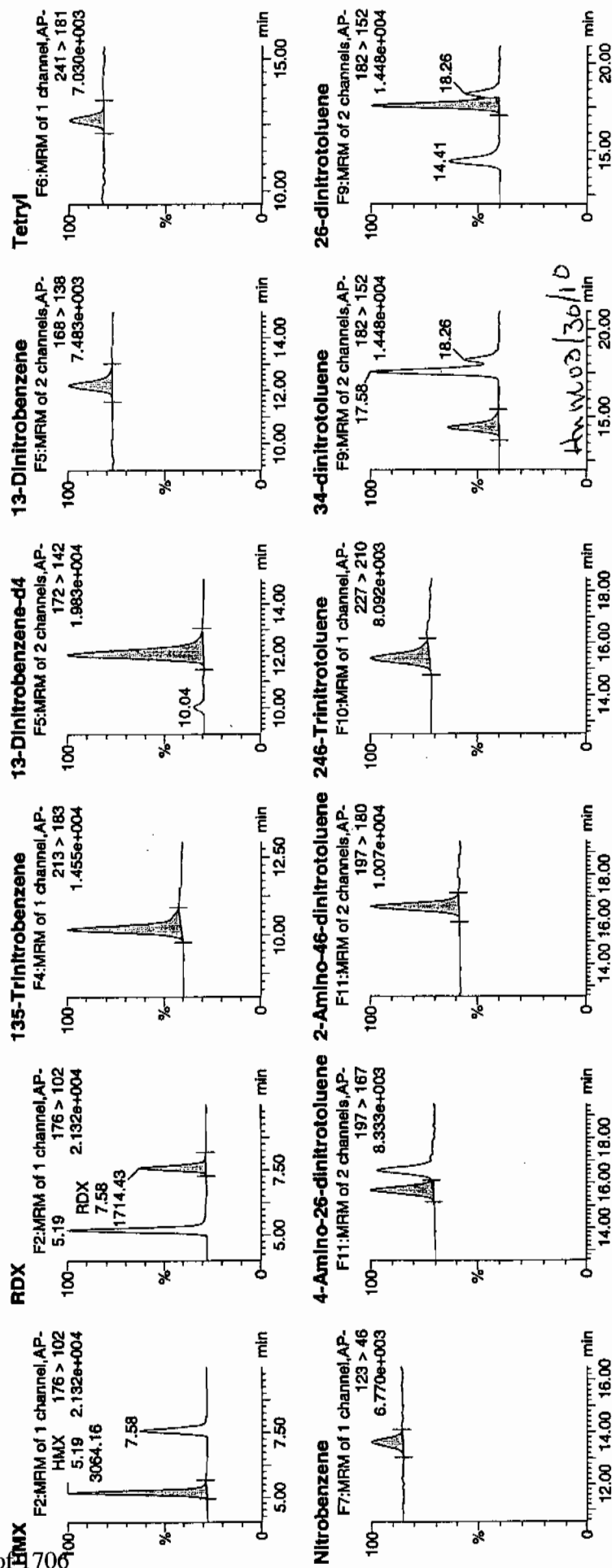
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Time: 03:55:30

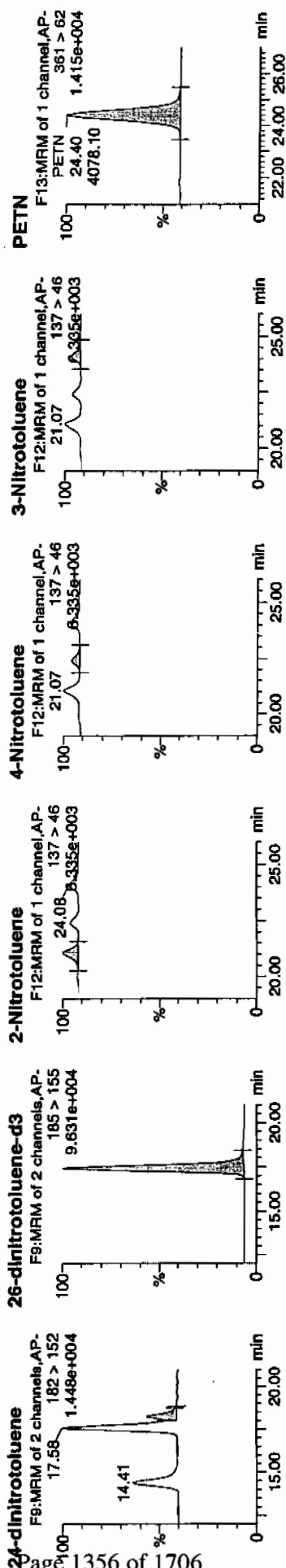
ID: WXX100323-08CRI

Ytal: 1:1,C

WXX
3/16/10



Dataset: C:\MASSLYNX\New_Exp\PRO1032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



Compound	Retention Time (min)	Area	Height	Abundance	Response	Ratio	Mod Date	Mod Time	Mod User	Mod Dev	Mod SN
WXX100323-08CRI	176 > 102	5.19	3064.160	5704.779	3064.160	268.561	bb	48.7132	121.8	21.8	617.8
WXX100323-08CRI	176 > 102	7.58	1714.432	5704.779	1714.432	150.263	bb	45.3789	113.4	13.4	301.6
WXX100323-08CRI	213 > 183	10.18	2489.815	5704.779	2489.815	218.222	bb	46.1728	115.4	15.4	370.3
WXX100323-08CRI	172 > 142	12.07	5704.779	5704.779	5704.779	5704.779	bb	518.2138	103.6	3.6	404.5
WXX100323-08CRI	168 > 138	12.20	639.383	5704.779	639.383	56.039	bb	42.2000	105.5	5.5	83.8
WXX100323-08CRI	241 > 181	12.66	461.945	5704.779	461.945	40.488	bb	35.3039	88.3	-11.7	42.7
WXX100323-08CRI	123 > 46	13.61	355.475	5704.779	355.475	31.156	bb	47.5552	118.9	18.9	36.9
WXX100323-08CRI	197 > 167	15.66	893.021	35548.270	893.021	12.561	MM	25-Mar-10 09:50:13	35.5449	88.9	-11.1
WXX100323-08CRI	197 > 180	16.56	1596.719	35548.270	1596.719	22.458	bb	41.0137	102.5	2.5	284.5
WXX100323-08CRI	227 > 210	15.40	1002.372	35548.270	1002.372	14.099	bb	34.3812	86.0	-14.0	112.9
WXX100323-08CRI	182 > 152	14.41	1693.976	35548.270	1693.976	23.826	bb	22.5015	112.5	12.5	118.5
WXX100323-08CRI	182 > 152	17.58	3297.491	35548.270	3297.491	46.380	MM	25-Mar-10 09:52:40	40.0864	100.2	0.2
WXX100323-08CRI	182 > 152	18.26	855.633	35548.270	855.633	12.035	MM	25-Mar-10 09:56:24	43.3694	108.4	8.4
WXX100323-08CRI	185 > 155	17.43	35548.270	35548.270	35548.270	35548.270	bb	516.2312	103.2	3.2	3550.4
WXX100323-08CRI	137 > 46	21.07	235.555	35548.270	235.555	3.313	bb	41.0843	102.7	2.7	61.6
WXX100323-08CRI	137 > 46	22.40	139.882	35548.270	139.882	1.967	bb	50.5252	126.3	26.3	34.7
WXX100323-08CRI	137 > 46	24.08	151.270	35548.270	151.270	2.128	bb	42.1979	105.5	5.5	37.1
WXX100323-08CRI	361 > 62	24.40	4078.101	35548.270	4078.101	57.360	bb	45.2483	113.1	13.1	727.9

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/25/10
 Time of Injection 0355
 Standard Number WXX100323-08CRI
 Data File EXP0323088a

HMX	121.8
RDX	113.4
135-TNB	115.4
13-DNB	105.5
Tetryl	88.3
Nitrobenzene	118.9
4A-26-DNT	88.9
2A-46-DNT	102.5
246-TNT	86.0
34-DNT(surr)	112.5
26-DNT	100.2
24-DNT	108.4
2-NT	102.7
4-NT	126.3
3-NT	105.5
PETN	113.1

*MWP
3/25/10*

Total 1709.4

Home 03/25/10

Average 106.8

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0326019a

Analysis Date: 26-MAR-10 23:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	17.189	86	
4-Amino-2,6-dinitrotoluene	40	36.441	91	
HMX	40	44.408	111	
Nitrobenzene	40	39.662	99	
PETN	40	40.827	102	
RDX	40	41.109	103	
Tetryl	40	40.361	101	
m-Dinitrobenzene	40	38.14	95	
m-Nitrotoluene	40	29.765	74	
o-Nitrotoluene	40	42.558	106	
p-Nitrotoluene	40	43.398	108	
1,3,5-Trinitrobenzene	40	45.108	113	
1,3-Dinitrobenzene-d4	500	525.708	105	
2,4,6-Trinitrotoluene	40	37.244	93	
2,4-Dinitrotoluene	40	39.101	98	
2,6-Dinitrotoluene	40	40.678	102	
2,6-Dinitrotoluene-d3	500	517.939	104	
2-Amino-4,6-dinitrotoluene	40	40.775	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

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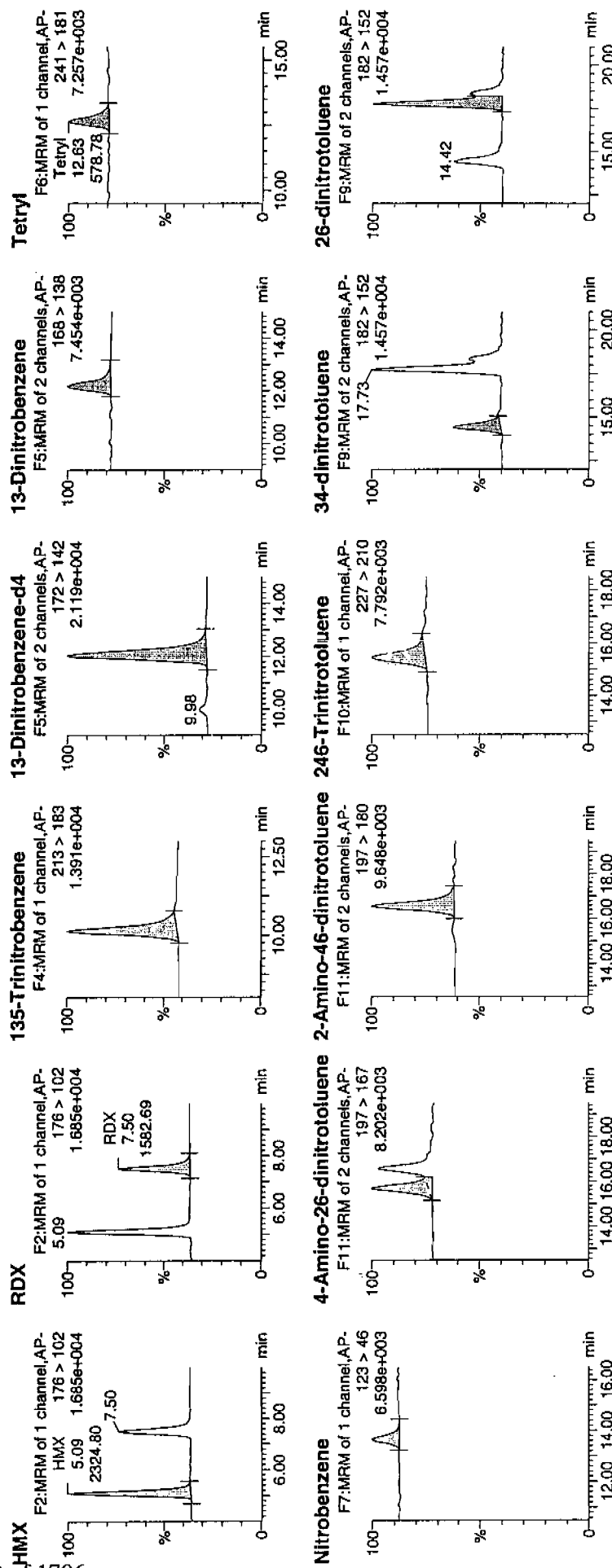
Date: 26-Mar-2010

Time: 23:34:10

ID: WXX100326-08CRI

Vial: 1:1,C

WXX
3/27/10



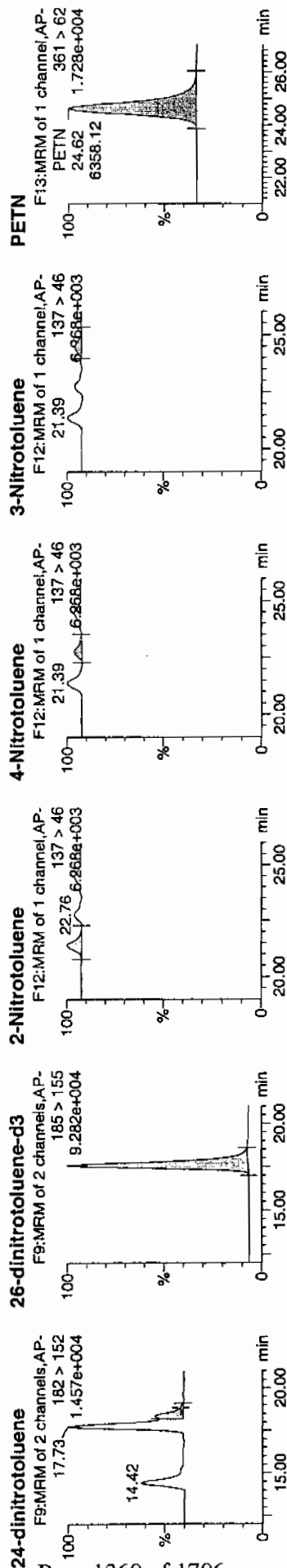
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Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Mar 27 12:13:02 2010, Page 38 of 87

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	% Rec	% Dev	SN
WXX100326-08CRI	HMX	176 > 102	5.09	2324.802	6431.926	2324.802	180.724	bb			44.4075	111.0	11.0	235.2
WXX100326-08CRI	RDX	176 > 102	7.50	1582.686	6431.926	1582.686	123.034	bb			41.1093	102.8	2.8	137.4
WXX100326-08CRI	135-Trinitrobenzene	213 > 183	10.13	2549.114	6431.926	2549.114	198.161	bb			45.1077	112.8	12.8	163.3
WXX100326-08CRI	13-Dinitrobenzene-d4	172 > 142	12.04	6431.926		6431.926	6431.926	bb			525.7083	105.1	5.1	847.4
WXX100326-08CRI	13-Dinitrobenzene	168 > 138	12.17	654.090	6431.926	654.090	50.847	bb			38.1398	95.3	-4.7	108.0
WXX100326-08CRI	Tetryl	241 > 181	12.63	578.782	6431.926	578.782	44.993	bb			40.3608	100.9	0.9	33.7
WXX100326-08CRI	Nitrobenzene	123 > 46	13.67	307.940	6431.926	307.940	23.938	bb			39.6624	99.2	-0.8	32.1
WXX100326-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1001.411	38027.207	1001.411	13.167	MM	27-Mar-10	12:00:41	36.4412	91.1	-8.9	78.4
WXX100326-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	1679.657	38027.207	1679.657	22.085	bb			40.7747	101.9	1.9	107.0
WXX100326-08CRI	246-Trinitrotoluene	227 > 210	15.45	912.399	38027.207	912.399	11.997	bb			37.2438	93.1	-6.9	42.4
WXX100326-08CRI	34-dinitrotoluene	182 > 152	14.42	1381.449	38027.207	1381.449	18.164	bb			17.1893	85.9	-14.1	40.2
WXX100326-08CRI	26-dinitrotoluene	182 > 152	17.73	3538.466	38027.207	3538.466	46.525	MM	27-Mar-10	12:06:25	40.6783	101.7	1.7	110.6
WXX100326-08CRI	24-dinitrotoluene	182 > 152	18.32	880.569	38027.207	880.569	11.578	MM	27-Mar-10	12:10:12	39.1005	97.8	-2.2	27.2
WXX100326-08CRI	26-dinitrotoluene-d3	185 > 155	17.58	38027.207		38027.207	38027.207	bb			517.9385	103.6	3.6	2725.3
WXX100326-08CRI	2-Nitrotoluene	137 > 46	21.39	242.326	38027.207	242.326	3.186	bb			42.5581	106.4	6.4	36.5
WXX100326-08CRI	4-Nitrotoluene	137 > 46	22.76	128.410	38027.207	128.410	1.698	bb			43.3981	108.5	8.5	18.0
WXX100326-08CRI	3-Nitrotoluene	137 > 46	24.47	112.891	38027.207	112.891	1.484	bb			29.7645	74.4	-25.6	15.2
WXX100326-08CRI	PETN	361 > 62	24.62	6358.124	38027.207	6358.124	83.600	bb			40.8268	102.1	2.1	945.6

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/26/10
 Time of Injection 2334
 Standard Number WXX100326-08CRI
 Data File EXP0326019a

HMX	111.0
RDX	102.8
135-TNB	112.8
13-DNB	95.3
Tetryl	100.9
Nitrobenzene	99.2
4A-26-DNT	91.1
2A-46-DNT	101.9
246-TNT	93.1
34-DNT(surr)	85.9
26-DNT	101.7
24-DNT	97.8
2-NT	106.4
4-NT	108.5
3-NT	74.4
PETN	102.1

1407
3/27/10

Total 1584.9

Average 99.1

4/11/10 03/30/10

ICV Limits 85-115%
 CRI Limits 70-130%
 CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0326028a

Analysis Date: 27-MAR-10 03:59

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	600	633.785	106	
2,4-Dinitrotoluene	600	582.934	97	
2,6-Dinitrotoluene	600	623.749	104	
2,6-Dinitrotoluene-d3	500	543.091	109	
2-Amino-4,6-dinitrotoluene	600	637.505	106	
3,4-Dinitrotoluene	300	278.856	93	
4-Amino-2,6-dinitrotoluene	600	549.864	92	
HMX	600	936.104	156	*
Nitrobenzene	600	554.309	92	
PETN	600	305.449	51	*
RDX	600	792.141	132	*
Tetryl	600	611.131	102	
m-Dinitrobenzene	600	606.83	101	
m-Nitrotoluene	600	580.488	97	
o-Nitrotoluene	600	567.052	95	
p-Nitrotoluene	600	533.581	89	
1,3,5-Trinitrobenzene	600	604.583	101	
1,3-Dinitrobenzene-d4	500	509.392	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0326028a

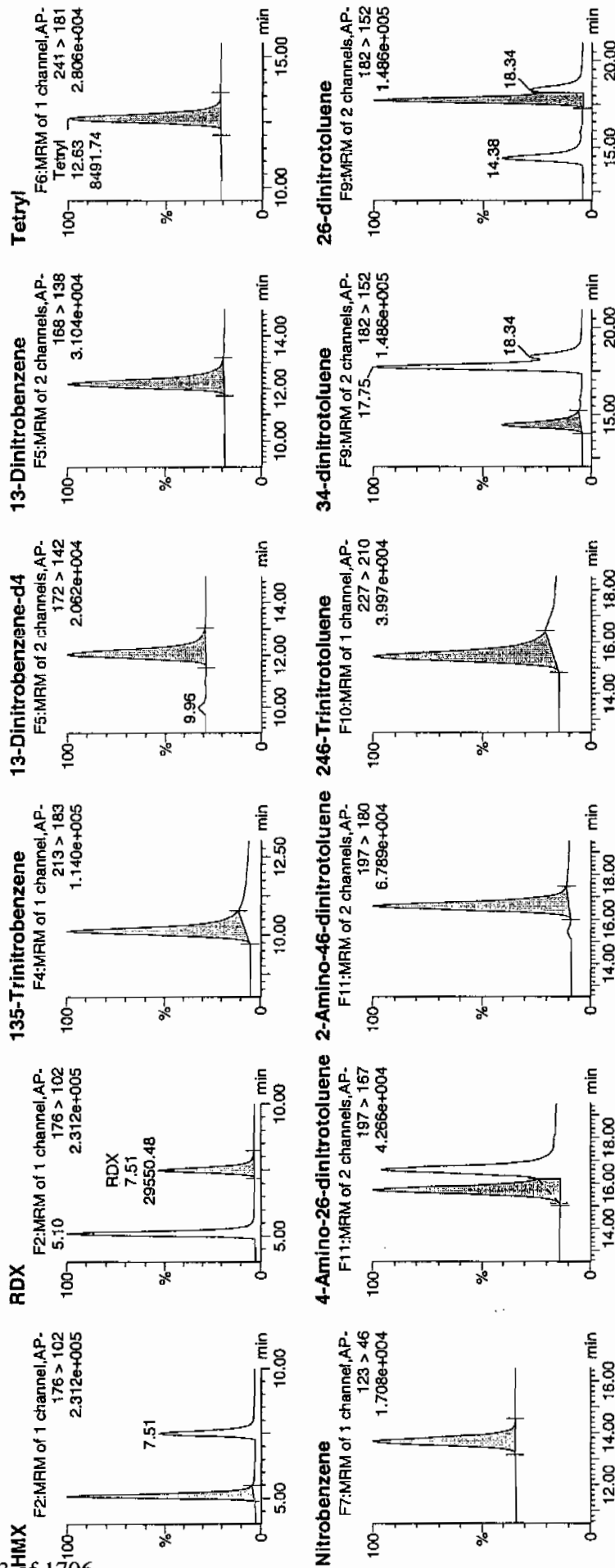
Date: 27-Mar-2010

Time: 03:59:34

ID: WXX100326-07CCV

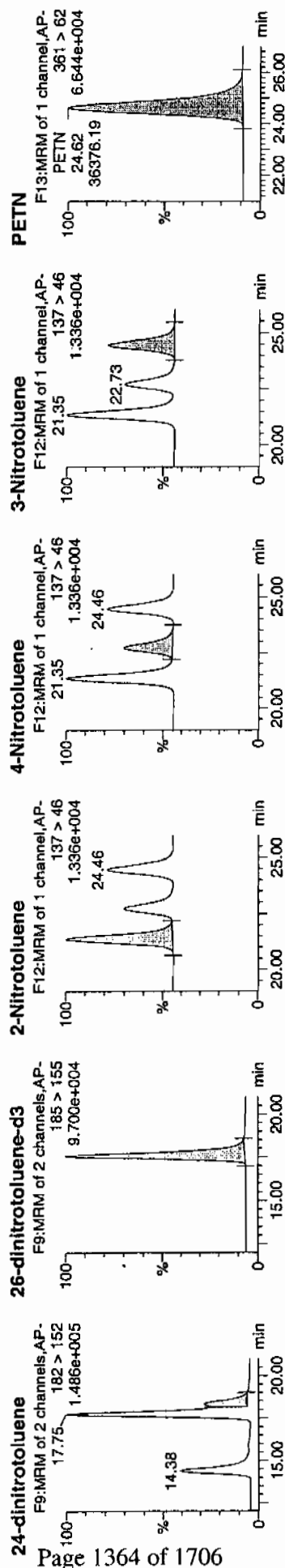
Vial: 1:1,B

MT
3/27/10



hmc
3/30/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	IS Area	Asig Resp	Response	Flags	Mod Date	Mod Time	Exp Intm	% Rec	% Dev	SN
WXX100326-07CCV	HMx	176 > 102	5.10	47485.457	6232.297	47485.457	3809.627	bb			936.1041	156.0	56.0	861.5
WXX100326-07CCV	RDX	176 > 102	7.51	29550.480	6232.297	29550.480	2370.754	bb			792.1409	132.0	32.0	449.9
WXX100326-07CCV	135-Trinitrobenzene	213 > 183	10.13	33105.637	6232.297	33105.637	2655.974	bb			604.5830	100.8	0.8	3687.7
WXX100326-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	6232.297		6232.297	6232.297	bb			509.3918	101.9	1.9	758.1
WXX100326-07CCV	13-Dinitrobenzene	168 > 138	12.17	10084.007	6232.297	10084.007	809.012	bb			606.8297	101.1	1.1	666.5
WXX100326-07CCV	Tetryl	241 > 181	12.63	8491.740	6232.297	8491.740	681.269	bb			611.1306	101.9	1.9	384.9
WXX100326-07CCV	Nitrobenzene	123 > 46	13.67	4170.093	6232.297	4170.093	334.555	bb			554.3090	92.4	-7.6	420.8
WXX100326-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.71	15844.163	39873.941	15844.163	198.678	MM	27-Mar-10	12:01:16	549.8638	91.6	-8.4	515.4
WXX100326-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	27536.469	39873.941	27536.469	345.294	bb			637.5052	106.3	6.3	1557.3
WXX100326-07CCV	246-Trinitrotoluene	227 > 210	15.45	16280.493	39873.941	16280.493	204.150	bb			633.7853	105.6	5.6	838.3
WXX100326-07CCV	34-dinitrotoluene	182 > 152	14.38	23499.070	39873.941	23499.070	294.667	bb			728.8559	93.0	-7.0	328.4
WXX100326-07CCV	26-dinitrotoluene	182 > 152	17.75	56892.805	39873.941	56892.805	713.408	MM	27-Mar-10	12:07:11	623.7492	104.0	4.0	865.9
WXX100326-07CCV	24-dinitrotoluene	182 > 152	18.34	13765.627	39873.941	13765.627	172.614	MM	27-Mar-10	12:10:56	582.9343	97.2	-2.8	202.3
WXX100326-07CCV	26-dinitrotoluene-d3	185 > 155	17.57	39873.941		39873.941	39873.941	bb			543.0914	108.6	8.6	2274.0
WXX100326-07CCV	2-Nitrotoluene	137 > 46	21.35	3385.602	39873.941	3385.602	42.454	bb			567.0523	94.5	-5.5	569.9
WXX100326-07CCV	4-Nitrotoluene	137 > 46	22.73	1655.477	39873.941	1655.477	20.759	bb			533.5813	88.9	-11.1	260.1
WXX100326-07CCV	3-Nitrotoluene	137 > 46	24.46	2308.599	39873.941	2308.599	28.949	bb			580.4879	96.7	-3.3	352.9
WXX100326-07CCV	PETN	361 > 62	24.62	36376.191	39873.941	36376.191	456.140	bb			305.4485	50.9	-49.1	1876.6

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/27/10
 Time of Injection: 0359
 Standard Number: WXX100326-07CCV
 Data File: EXP0326028a

HMX	156.0
RDX	132.0
135-TNB	100.8
13-DNB	101.1
Tetryl	101.9
Nitrobenzene	92.4
4A-26-DNT	91.6
2A-46-DNT	106.3
246-TNT	105.6
34-DNT(surr)	93.0
26-DNT	104.0
24-DNT	97.2
2-NT	94.5
4-NT	88.9
3-NT	96.7
PETN	50.9

MIT
3/27/10

Total 1612.9

Average 100.8

Sum 03/30/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0326030a

Analysis Date: 27-MAR-10 04:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	56.861	142	*
1,3-Dinitrobenzene-d4	500	540.854	108	
2,4,6-Trinitrotoluene	40	39.882	100	
2,4-Dinitrotoluene	40	33.381	83	
2,6-Dinitrotoluene	40	40.837	102	
2,6-Dinitrotoluene-d3	500	628.424	126	
2-Amino-4,6-dinitrotoluene	40	43.903	110	
3,4-Dinitrotoluene	20	20.144	101	
4-Amino-2,6-dinitrotoluene	40	37.3	93	
HMX	40	50.984	127	
Nitrobenzene	40	36.928	92	
PETN	40	29.885	75	
RDX	40	47.794	119	
Tetryl	40	39.327	98	
m-Dinitrobenzene	40	39.765	99	
m-Nitrotoluene	40	31.952	80	
o-Nitrotoluene	40	26.39	66	*
p-Nitrotoluene	40	31.061	78	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326030a

Date: 27-Mar-2010

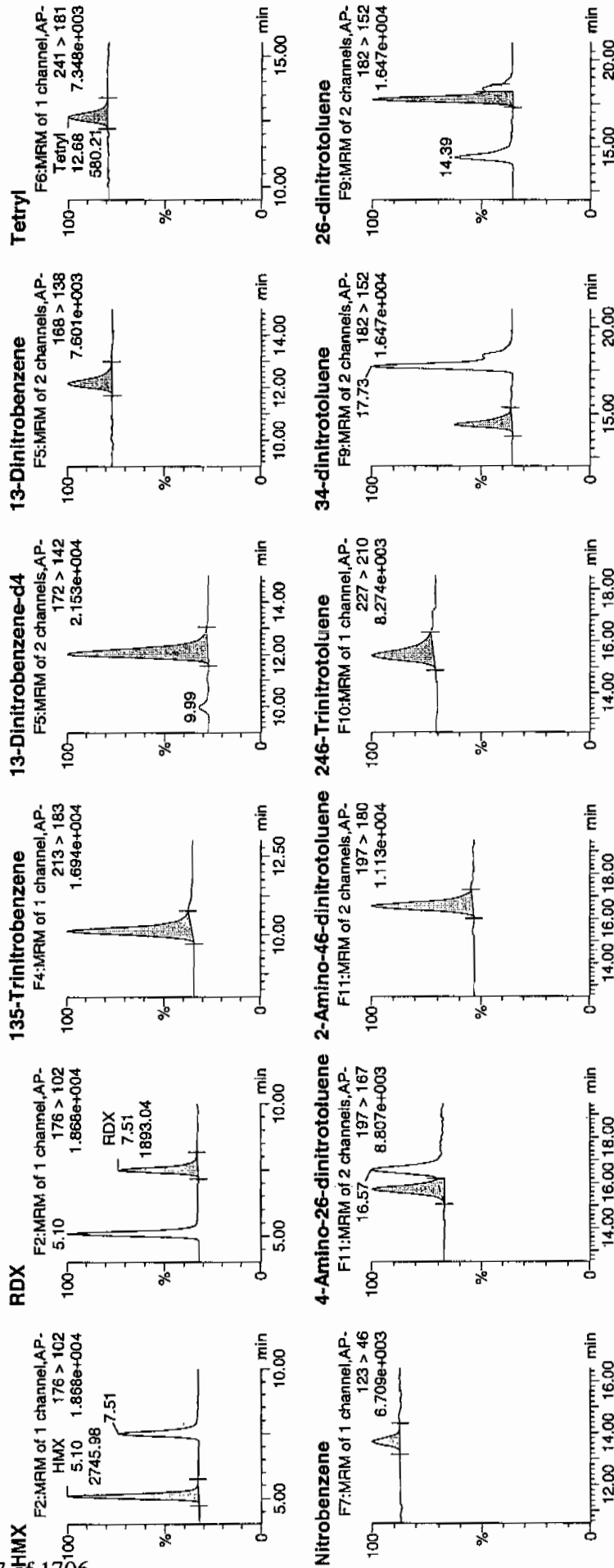
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ID: WXX100326-08CRI

Vial: 1:1,C

1/27/10
3/27/10

367 of 1706

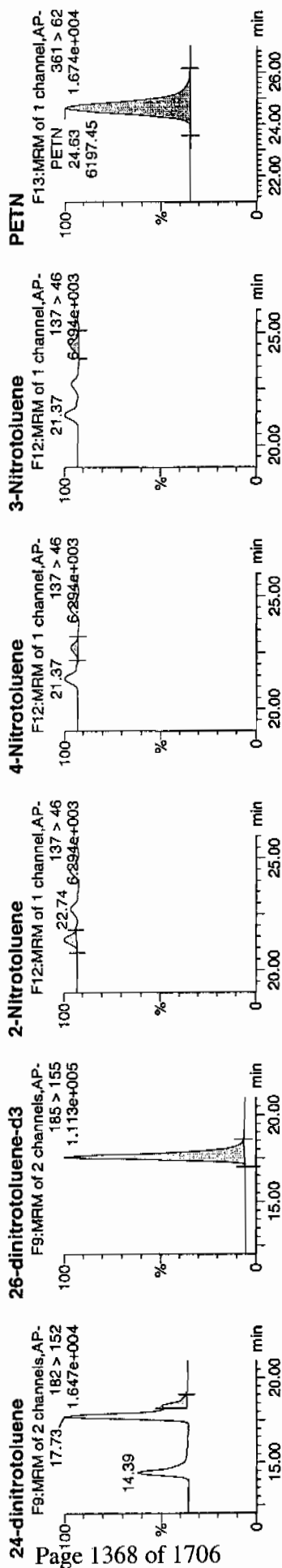


hrw
03/30/10

Printed: Sat Mar 27 12:13:02 2010, Page 60 of 87

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Norm	% Rec	Label	SN
WXX100326-08CRI	HMX	176 > 102	5.10	2745.978	6617.233	2745.978	207.487	bb			50.9838	127.5	27.5	317.4
WXX100326-08CRI	RDX	178 > 102	7.51	1893.044	6617.233	1893.044	143.039	bb			47.7937	119.5	19.5	192.1
WXX100326-08CRI	135-Trinitrobenzene	213 > 183	10.13	3305.876	6617.233	3305.876	249.793	bb			56.8607	142.2	42.2	192.2
WXX100326-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	6617.233	6617.233	6617.233	6617.233	bb			540.8543	108.2	8.2	347.6
WXX100326-08CRI	13-Dinitrobenzene	168 > 138	12.17	701.616	6617.233	701.616	53.014	bb			39.7654	99.4	-0.6	42.9
WXX100326-08CRI	Tetryl	241 > 181	12.68	580.207	6617.233	580.207	43.841	bb			39.3271	98.3	-1.7	52.3
WXX100326-08CRI	Nitrobenzene	123 > 46	13.67	294.972	6617.233	294.972	22.288	bb			36.9282	92.3	-7.7	30.8
WXX100326-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.71	1243.558	46139.051	1243.558	13.477	MM	27-Mar-10	12:01:24	37.2999	93.2	-6.8	104.4
WXX100326-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.57	2194.320	46139.051	2194.320	23.779	bb			43.9032	109.8	9.8	209.8
WXX100326-08CRI	246-Trinitrotoluene	227 > 210	15.45	1185.446	46139.051	1185.446	12.846	bb			39.8820	99.7	-0.3	119.1
WXX100326-08CRI	34-dinitrotoluene	182 > 152	14.39	1964.288	46139.051	1964.288	21.287	bb			20.1444	100.7	0.7	75.8
WXX100326-08CRI	26-dinitrotoluene	182 > 152	17.73	4310.071	46139.051	4310.071	46.707	MM	27-Mar-10	12:07:19	40.8374	102.1	2.1	183.3
WXX100326-08CRI	24-dinitrotoluene	182 > 152	18.38	912.113	46139.051	912.113	9.384	MM	27-Mar-10	12:11:13	33.3805	83.5	-16.5	38.1
WXX100326-08CRI	26-dinitrotoluene-d3	185 > 155	17.57	46139.051	46139.051	46139.051	46139.051	bb			628.4235	125.7	25.7	2150.3
WXX100326-08CRI	2-Nitrotoluene	137 > 46	21.37	182.320	46139.051	182.320	1.976	bb			26.3902	66.0	-34.0	43.0
WXX100326-08CRI	4-Nitrotoluene	137 > 46	22.74	111.509	46139.051	111.509	1.208	bb			31.0605	77.7	-22.3	24.4
WXX100326-08CRI	3-Nitrotoluene	137 > 46	24.45	147.037	46139.051	147.037	1.593	bb			31.9515	79.9	-20.1	29.7
WXX100326-08CRI	PETN	361 > 62	24.63	6197.449	46139.051	6197.449	67.161	bb			29.8854	74.7	-25.3	1023.3

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/27/10
 Time of Injection 0458
 Standard Number WXX100326-08CRI
 Data File EXP0326030a

HMX	127.5
RDX	119.5
135-TNB	142.2
13-DNB	99.4
Tetryl	98.3
Nitrobenzene	92.3
4A-26-DNT	93.2
2A-46-DNT	109.8
246-TNT	99.7
34-DNT(surr)	100.7
26-DNT	102.1
24-DNT	83.5
2-NT	66.0
4-NT	77.7
3-NT	79.9
PETN	74.7

*MTT
3/27/10*

Total 1566.5

Time 03/30/10

Average 97.9

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0326041a

Analysis Date: 27-MAR-10 10:23

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	600	730.369	122	*
Tetryl	600	626.26	104	
m-Dinitrobenzene	600	611.628	102	
m-Nitrotoluene	600	546.951	91	
o-Nitrotoluene	600	576.433	96	
p-Nitrotoluene	600	509.31	85	
1,3,5-Trinitrobenzene	600	630.46	105	
1,3-Dinitrobenzene-d4	500	489.658	98	
2,4,6-Trinitrotoluene	600	696.07	116	
2,4-Dinitrotoluene	600	699.667	117	
2,6-Dinitrotoluene	600	626.833	104	
2,6-Dinitrotoluene-d3	500	491.847	98	
2-Amino-4,6-dinitrotoluene	600	658.816	110	
3,4-Dinitrotoluene	300	311.225	104	
4-Amino-2,6-dinitrotoluene	600	610.592	102	
HMX	600	795.562	133	*
Nitrobenzene	600	566.36	94	
PETN	600	545.257	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 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qtd, Time: Sat Mar 27 12:12:14 2010

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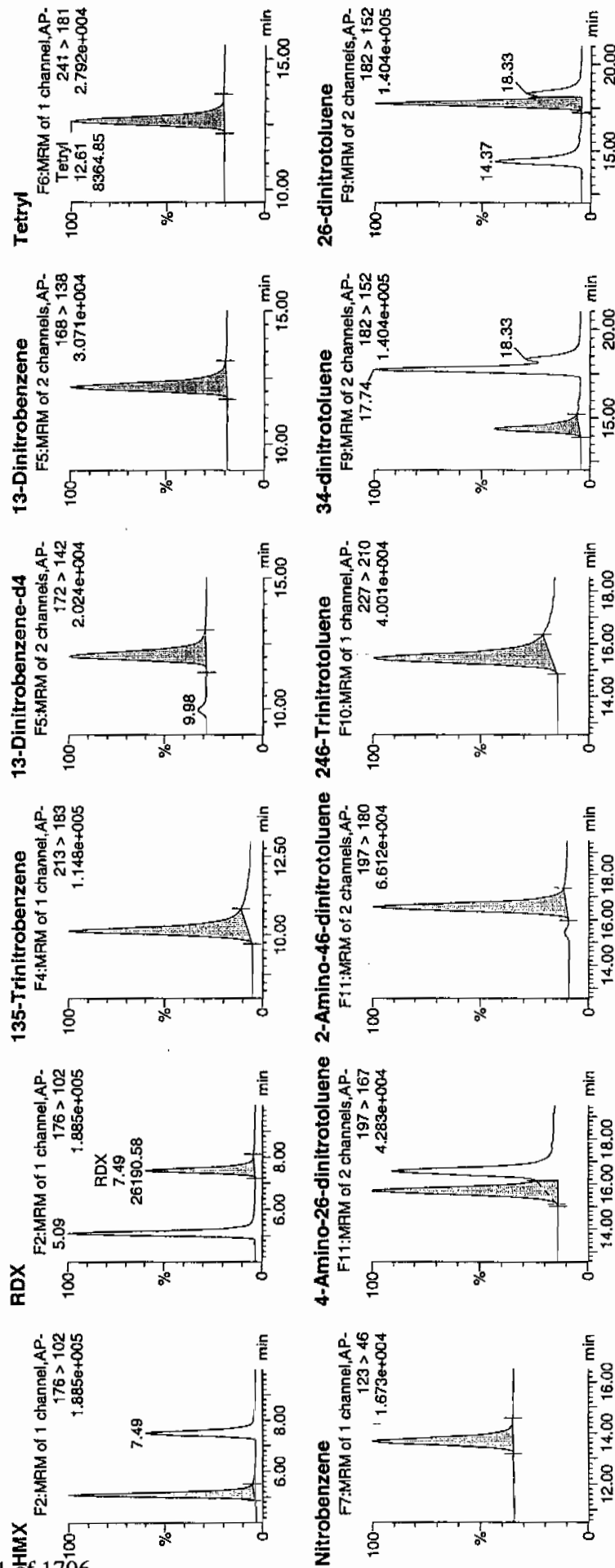
Date: 27-Mar-2010

Time: 10:23:03

ID: WXX100326-07CCV

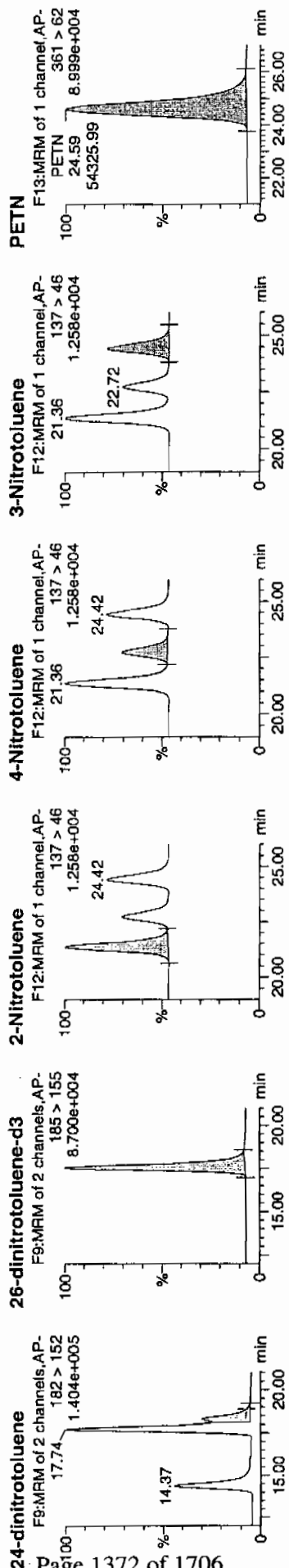
Vial: 1:1,B

3/27/10
M.A.P.

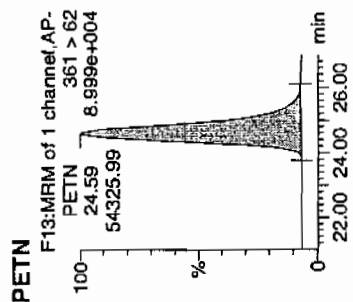


MMW 03/30/10

Dataset: C:\MASSLYNX\New_Exp_PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	ISN
WXX100326-07CCV	HMX	176 > 102	5.09	38792.820	5990.857	38792.820	3237.569	bb			132.6	32.6	1646.0
WXX100326-07CCV	RDX	176 > 102	7.49	26190.578	5990.857	26190.578	2185.879	bb			121.7	21.7	961.9
WXX100326-07CCV	135-Trinitrobenzene	213 > 183	10.12	33185.188	5990.857	33185.188	2769.553	bb			105.1	5.1	2690.2
WXX100326-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	5990.857		5990.857	5990.857	bb			97.9	-2.1	334.0
WXX100326-07CCV	13-Dinitrobenzene	168 > 138	12.17	9769.997	5990.857	9769.997	815.409	bb			101.9	1.9	516.8
WXX100326-07CCV	Tetryl	241 > 181	12.61	8364.854	5990.857	8364.854	698.135	bb			104.4	4.4	680.1
WXX100326-07CCV	Nitrobenzene	123 > 46	13.66	4095.694	5990.857	4095.694	341.829	bb			94.4	-5.6	378.7
WXX100326-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.67	15933.900	36111.559	15933.900	220.620	MM	27-Mar-10	12:02:07	101.8	1.8	168.3
WXX100326-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.54	25771.863	36111.559	25771.863	356.837	bb			109.8	9.8	603.3
WXX100326-07CCV	246-Trinitrotoluene	227 > 210	15.44	16193.311	36111.559	16193.311	224.212	bb			116.0	16.0	660.6
WXX100326-07CCV	34-dinitrotoluene	182 > 152	14.37	23752.105	36111.559	23752.105	328.871	bb			103.7	3.7	861.5
WXX100326-07CCV	26-dinitrotoluene	182 > 152	17.74	51779.316	36111.559	51779.316	716.935	MM	27-Mar-10	12:07:55	104.5	4.5	2100.8
WXX100326-07CCV	24-dinitrotoluene	182 > 152	18.33	14963.203	36111.559	14963.203	207.180	MM	27-Mar-10	12:11:52	116.6	16.6	540.3
WXX100326-07CCV	26-dinitrotoluene-d3	185 > 155	17.57	36111.559		36111.559	36111.559	bb			98.4	-1.6	2956.5
WXX100326-07CCV	2-Nitrotoluene	137 > 46	21.36	3116.871	36111.559	3116.871	43.156	bb			96.1	-3.9	380.7
WXX100326-07CCV	4-Nitrotoluene	137 > 46	22.72	1431.072	36111.559	1431.072	19.815	bb			84.9	-15.1	168.6
WXX100326-07CCV	3-Nitrotoluene	137 > 46	24.42	1969.974	36111.559	1969.974	27.276	bb			91.2	-8.8	227.0
WXX100326-07CCV	PETN	361 > 62	24.59	54325.988	36111.559	54325.988	752.197	bb			90.9	-9.1	227.7



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/27/10
 Time of Injection: 1023
 Standard Number: WXX100326-07CCV
 Data File: EXP0326041a

HMX	132.6
RDX	121.7
135-TNB	105.1
13-DNB	101.9
Tetryl	104.4
Nitrobenzene	94.4
4A-26-DNT	101.8
2A-46-DNT	109.8
246-TNT	116.0
34-DNT(surr)	103.7
26-DNT	104.5
24-DNT	116.6
2-NT	96.1
4-NT	84.9
3-NT	91.2
PETN	90.9

Handwritten: 104.7
3/27/10

Total 1675.6

Average 104.7

Handwritten: 104.7 03/30/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0326043a

Analysis Date: 27-MAR-10 11:22

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	47.359	118	
1,3-Dinitrobenzene-d4	500	621.166	124	
2,4,6-Trinitrotoluene	40	49.323	123	
2,4-Dinitrotoluene	40	40.005	100	
2,6-Dinitrotoluene	40	40.218	101	
2,6-Dinitrotoluene-d3	500	570.159	114	
2-Amino-4,6-dinitrotoluene	40	46.794	117	
3,4-Dinitrotoluene	20	23.4	117	
4-Amino-2,6-dinitrotoluene	40	42.151	105	
HMX	40	50.078	125	
Nitrobenzene	40	34.756	87	
PETN	40	33.801	85	
RDX	40	42.629	107	
Tetryl	40	40.422	101	
m-Dinitrobenzene	40	42.239	106	
m-Nitrotoluene	40	38.564	96	
o-Nitrotoluene	40	34.106	85	
p-Nitrotoluene	40	37.536	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA.qld, Time: Sat Mar 27 12:12:14 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326043a

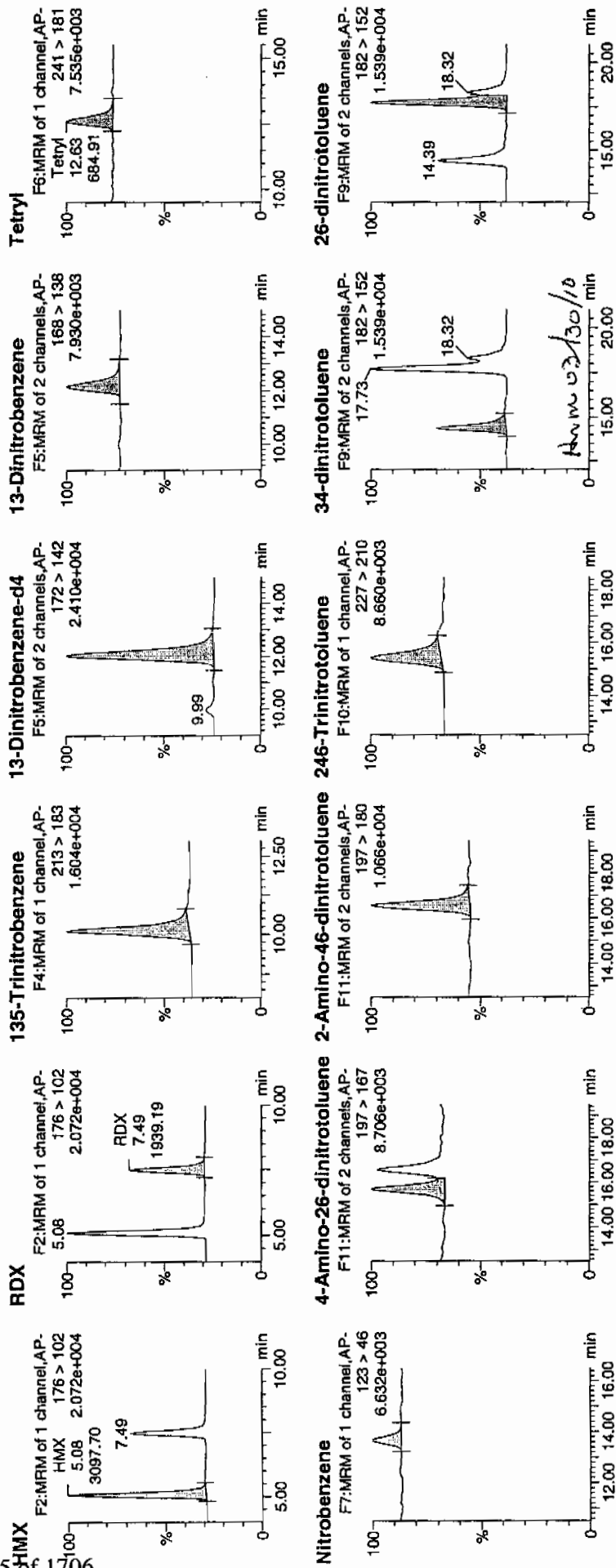
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Time: 11:22:07

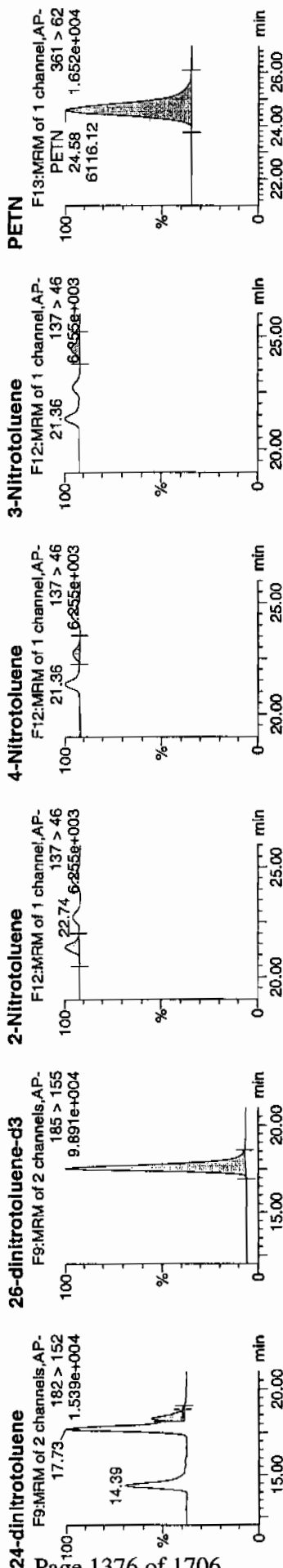
ID: WXX100326-08CRI

Vial: 1:1,C

1/27/10
1/27/10



Dataset: C:\MASSLYNX\New_Exp\PRO032610expA.qld, Time: Sat Mar 27 12:12:14 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rel	%Dev	ISIN	
WXX100326-08CRI	HMX	176 > 102	5.08	3097.696	7599.829	3097.696	203.800	bb			50.0780	125.2	25.2	466.0
WXX100326-08CRI	RDX	176 > 102	7.49	1939.190	7599.829	1939.190	127.581	bb			42.6287	106.6	6.6	252.5
WXX100326-08CRI	135-Trinitrobenzene	213 > 183	10.13	3162.277	7599.829	3162.277	208.049	bb			47.3585	118.4	18.4	251.4
WXX100326-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	7599.829		7599.829	7599.829	bb			621.1660	124.2	24.2	1006.7
WXX100326-08CRI	13-Dinitrobenzene	168 > 138	12.17	855.914	7599.829	855.914	56.311	bb			42.2385	105.6	5.6	79.8
WXX100326-08CRI	Tetryl	241 > 181	12.63	684.907	7599.829	684.907	45.061	bb			40.4216	101.1	1.1	67.8
WXX100326-08CRI	Nitrobenzene	123 > 46	13.67	318.846	7599.829	318.846	20.977	bb			34.7561	86.9	-13.1	30.1
WXX100326-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1275.088	41861.277	1275.088	15.230	MM	27-Mar-10	12:02:17	42.1505	105.4	5.4	69.6
WXX100326-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.55	2121.964	41861.277	2121.964	25.345	bb			46.7940	117.0	17.0	191.7
WXX100326-08CRI	246-Trinitrotoluene	227 > 210	15.42	1330.145	41861.277	1330.145	15.888	bb			49.3231	123.3	23.3	155.0
WXX100326-08CRI	34-dinitrotoluene	182 > 152	14.39	2070.170	41861.277	2070.170	24.727	bb			23.3998	117.0	17.0	75.9
WXX100326-08CRI	26-dinitrotoluene	182 > 152	17.73	3851.188	41861.277	3851.188	45.999	MM	27-Mar-10	12:08:08	40.2183	100.5	0.5	150.8
WXX100326-08CRI	24-dinitrotoluene	182 > 152	18.32	991.781	41861.277	991.781	11.846	MM	27-Mar-10	12:12:02	40.0052	100.0	0.0	41.7
WXX100326-08CRI	26-dinitrotoluene-d3	185 > 155	17.55	41861.277		41861.277	41861.277	bb			570.1593	114.0	14.0	2787.0
WXX100326-08CRI	2-Nitrotoluene	137 > 46	21.36	213.778	41861.277	213.778	2.553	bb			34.1057	85.3	-14.7	44.0
WXX100326-08CRI	4-Nitrotoluene	137 > 46	22.74	122.263	41861.277	122.263	1.460	bb			37.5361	93.8	-6.2	21.3
WXX100326-08CRI	3-Nitrotoluene	137 > 46	24.46	161.014	41861.277	161.014	1.923	bb			38.5643	96.4	-3.6	25.6
WXX100326-08CRI	PETN	361 > 62	24.58	6116.122	41861.277	6116.122	73.052	bb			33.8005	84.5	-15.5	2317.2

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/27/10
 Time of Injection 1122
 Standard Number WXX100326-08CRI
 Data File EXP0326043a

HMX	125.2
RDX	106.6
135-TNB	118.4
13-DNB	105.6
Tetryl	101.1
Nitrobenzene	86.9
4A-26-DNT	105.4
2A-46-DNT	117.0
246-TNT	123.3
34-DNT(surr)	117.0
26-DNT	100.5
24-DNT	100.0
2-NT	85.3
4-NT	93.8
3-NT	96.4
PETN	84.5

*not
3/27/10*

Total 1667.0

Average 104.2

Ann 03/30/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0326053a

Analysis Date: 27-MAR-10 16:17

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	568.424	95	
1,3-Dinitrobenzene-d4	500	467.398	93	
2,4,6-Trinitrotoluene	600	808.509	135	*
2,4-Dinitrotoluene	600	622.322	104	
2,6-Dinitrotoluene	600	607.871	101	
2,6-Dinitrotoluene-d3	500	537.88	108	
2-Amino-4,6-dinitrotoluene	600	639.102	107	
3,4-Dinitrotoluene	300	316.939	106	
4-Amino-2,6-dinitrotoluene	600	614.773	102	
HMX	600	804.739	134	*
Nitrobenzene	600	559.587	93	
PETN	600	479.388	80	*
RDX	600	701.875	117	
Tetryl	600	648.214	108	
m-Dinitrobenzene	600	633.047	106	
m-Nitrotoluene	600	552.103	92	
o-Nitrotoluene	600	513.047	86	
p-Nitrotoluene	600	506.357	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

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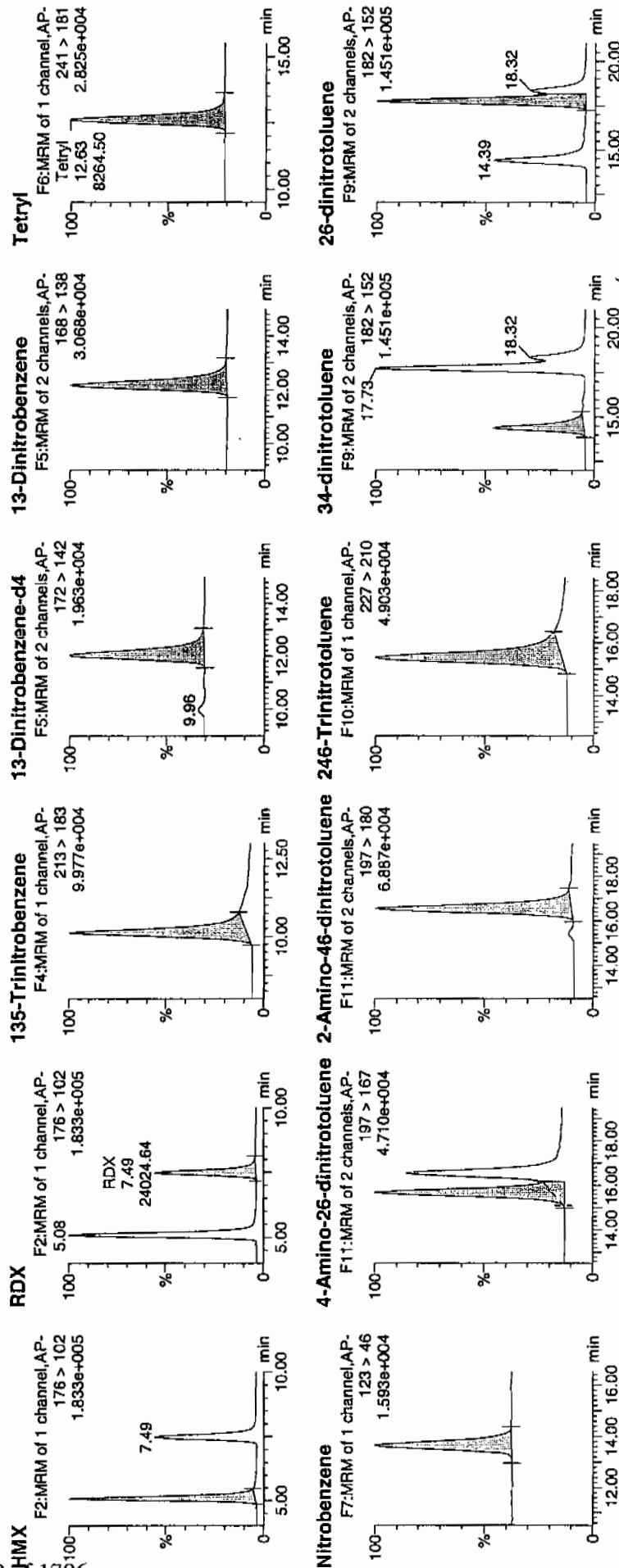
Date: 27-Mar-2010

Time: 16:17:19

ID: WXX100326-07CCV

Vial: 1:1,B

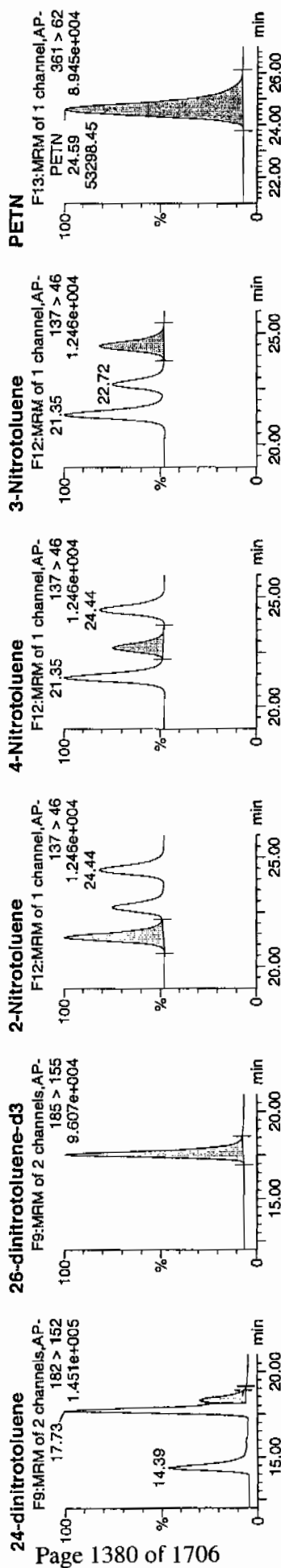
3/29/10



mm 03/30/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010



ID	Name	Trace	RT	Area	SAvea	Abn Resp	Response	Flags	Mod Date	Mod Time	Int Comp	Area	Mod	Area	SN
WXX100326-07CCV	HMX	176 > 102	5.08	37456.445	5718.515	37456.445	3275.015	bb				804.7389	134.1	34.1	4697.8
WXX100326-07CCV	RDX	176 > 102	7.49	24024.641	5718.515	24024.641	2100.601	bb				701.8748	117.0	17.0	2558.9
WXX100326-07CCV	135-Trinitrobenzene	213 > 183	10.13	28559.672	5718.515	28559.672	2497.123	bb				568.4235	94.7	-5.3	2037.1
WXX100326-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	5718.515	5718.515	5718.515	5718.515	bb				467.3983	93.5	-6.5	762.7
WXX100326-07CCV	13-Dinitrobenzene	188 > 138	12.17	9652.442	5718.515	9652.442	843.964	bb				633.0467	105.5	5.5	775.5
WXX100326-07CCV	Tetryl	241 > 181	12.63	8264.497	5718.515	8264.497	722.609	bb				648.2143	108.0	8.0	530.5
WXX100326-07CCV	Nitrobenzene	123 > 46	13.67	3862.752	5718.515	3862.752	337.741	bb				559.5874	93.3	-6.7	257.5
WXX100326-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	17544.523	39491.301	17544.523	222.131	MM	28-Mar-10	12:40:48		614.7734	102.5	2.5	297.1
WXX100326-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.55	27340.551	39491.301	27340.551	346.159	bb				639.1024	106.5	6.5	888.0
WXX100326-07CCV	246-Trinitrotoluene	227 > 210	15.45	20569.443	39491.301	20569.443	260.430	bb				808.5090	134.8	34.8	828.9
WXX100326-07CCV	34-dinitrotoluene	182 > 152	14.39	26452.053	39491.301	26452.053	334.910	bb				316.9394	105.6	5.6	942.5
WXX100326-07CCV	26-dinitrotoluene	182 > 152	17.73	54912.477	39491.301	54912.477	695.248	MM	28-Mar-10	12:47:14		607.8710	101.3	1.3	2154.8
WXX100326-07CCV	24-dinitrotoluene	182 > 152	18.32	14554.724	39491.301	14554.724	184.278	MM	28-Mar-10	12:48:14		622.3222	103.7	3.7	540.8
WXX100326-07CCV	26-dinitrotoluene-d3	185 > 155	17.55	39491.301	39491.301	39491.301	39491.301	bb				537.8798	107.6	7.6	2274.8
WXX100326-07CCV	2-Nitrotoluene	137 > 46	21.35	3033.765	39491.301	3033.765	38.411	bb				513.0466	85.5	-14.5	397.3
WXX100326-07CCV	4-Nitrotoluene	137 > 46	22.72	1555.937	39491.301	1555.937	19.700	bb				506.3574	84.4	-15.6	201.2
WXX100326-07CCV	3-Nitrotoluene	137 > 46	24.44	2174.640	39491.301	2174.640	27.533	bb				552.1025	92.0	-8.0	255.8
WXX100326-07CCV	PETN	361 > 62	24.59	53298.449	39491.301	53298.449	674.813	bb				479.3876	79.9	-20.1	9454.2

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/27/10
 Time of Injection: 1617
 Standard Number: WXX100326-07CCV
 Data File: EXP0326053a

HMX	134.1	✓
RDX	117.0	✓
135-TNB	94.7	✓
13-DNB	105.5	
Tetryl	108.0	
Nitrobenzene	93.3	
4A-26-DNT	102.5	
2A-46-DNT	106.5	
246-TNT	134.8	
34-DNT(surr)	105.6	
26-DNT	101.3	
24-DNT	103.7	
2-NT	85.5	
4-NT	84.4	
3-NT	92.0	
PETN	79.9	

*MTT
3/29/10*

Total 1648.8

Average 103.1 ✓

HMM 03/30/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXP0326055a

Analysis Date: 27-MAR-10 17:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	39.118	98	
PETN	40	38.2	95	
RDX	40	42.526	106	
Tetryl	40	35.619	89	
m-Dinitrobenzene	40	36.714	92	
m-Nitrotoluene	40	43.246	108	
o-Nitrotoluene	40	32.775	82	
p-Nitrotoluene	40	39.073	98	
1,3,5-Trinitrobenzene	40	54.285	136	*
1,3-Dinitrobenzene-d4	500	478.149	96	
2,4,6-Trinitrotoluene	40	63.902	160	*
2,4-Dinitrotoluene	40	41.275	103	
2,6-Dinitrotoluene	40	42.993	107	
2,6-Dinitrotoluene-d3	500	465.23	93	
2-Amino-4,6-dinitrotoluene	40	37.97	95	
3,4-Dinitrotoluene	20	26.105	131	*
4-Amino-2,6-dinitrotoluene	40	48.685	122	
HMX	40	48.8	122	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp\PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0326055a

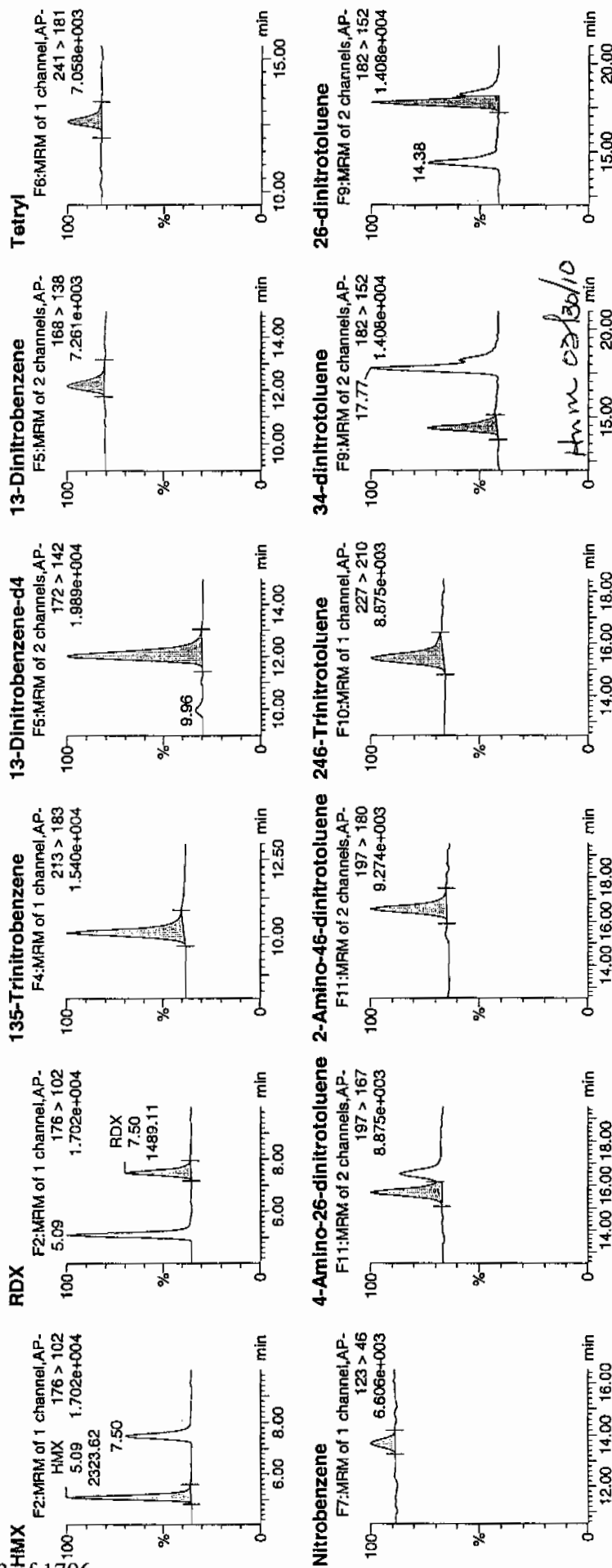
Date: 27-Mar-2010

Time: 17:16:23

ID: WXX100326-08CRI

Vial: 1:1,C

3/29/10
MMP



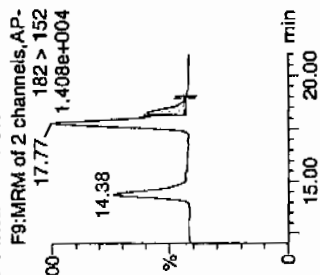
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

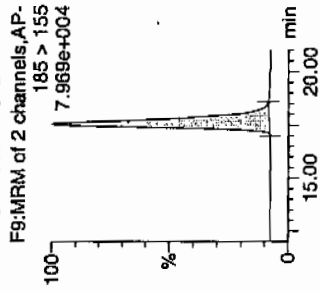
Printed: Sun Mar 28 12:56:46 2010, Page 24 of 87

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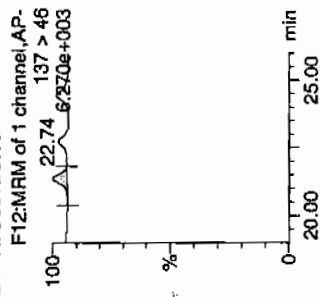
24-dinitrotoluene



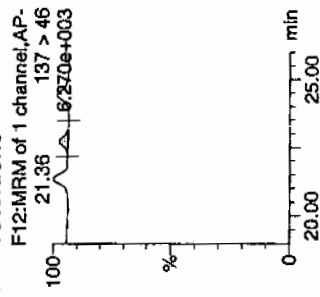
26-dinitrotoluene-d3



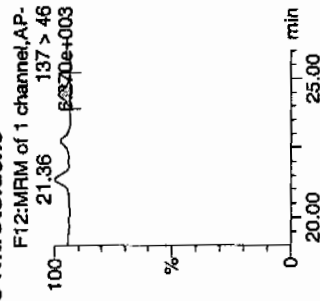
2-Nitrotoluene



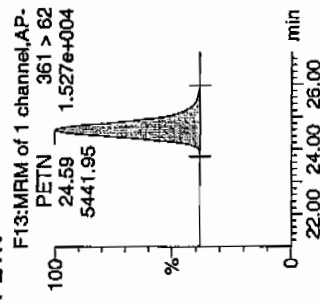
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	Area %	Peak	Area	Area %
WXX100326-08CRI	HMX	176 > 102	5.09	2323.620	5850.045	2323.620	198.598	bb	48.7997	122.0	22.0	691.8	22.0	691.8
WXX100326-08CRI	RDX	176 > 102	7.50	1489.109	5850.045	1489.109	127.273	bb	42.5259	106.3	6.3	370.8	6.3	370.8
WXX100326-08CRI	135-Trinitrobenzene	213 > 183	10.12	2790.205	5850.045	2790.205	238.477	bb	54.2849	135.7	35.7	229.0	35.7	229.0
WXX100326-08CRI	13-Dinitrobenzene-d4	172 > 142	12.04	5850.045	5850.045	5850.045	5850.045	bb	478.1488	95.6	-4.4	574.5	-4.4	574.5
WXX100326-08CRI	13-Dinitrobenzene	168 > 138	12.17	572.677	5850.045	572.677	48.946	bb	36.7141	91.8	-8.2	40.9	-8.2	40.9
WXX100326-08CRI	Tetryl	241 > 181	12.58	464.576	5850.045	464.576	39.707	bb	35.6191	89.0	-11.0	28.7	-11.0	28.7
WXX100326-08CRI	Nitrobenzene	123 > 46	13.71	276.234	5850.045	276.234	23.610	bb	39.1176	97.8	-2.2	15.8	-2.2	15.8
WXX100326-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1201.730	34157.301	1201.730	17.591	MM	28-Mar-10	12:41:02	48.6854	121.7	21.7	63.2
WXX100326-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.55	1404.938	34157.301	1404.938	20.566	bb	37.9698	94.9	-5.1	128.7	-5.1	128.7
WXX100326-08CRI	246-Trinitrotoluene	227 > 210	15.45	1406.158	34157.301	1406.158	20.584	bb	63.9020	159.8	59.8	139.3	59.8	139.3
WXX100326-08CRI	34-dinitrotoluene	182 > 152	14.38	1884.489	34157.301	1884.489	27.585	bb	26.1053	130.5	30.5	47.6	30.5	47.6
WXX100326-08CRI	26-dinitrotoluene	182 > 152	17.77	3359.211	34157.301	3359.211	49.173	MM	28-Mar-10	12:47:04	42.9928	107.5	7.5	87.0
WXX100326-08CRI	24-dinitrotoluene	182 > 152	18.25	834.942	34157.301	834.942	12.222	MM	28-Mar-10	12:48:25	41.2749	103.2	3.2	24.7
WXX100326-08CRI	26-dinitrotoluene-d3	185 > 155	17.55	34157.301	34157.301	34157.301	34157.301	bb	465.2296	93.0	-7.0	1605.2	-7.0	1605.2
WXX100326-08CRI	2-Nitrotoluene	137 > 46	21.36	167.629	34157.301	167.629	2.454	bb	32.7749	81.9	-18.1	45.7	-18.1	45.7
WXX100326-08CRI	4-Nitrotoluene	137 > 46	22.74	103.846	34157.301	103.846	1.520	bb	39.0726	97.7	-2.3	28.3	-2.3	28.3
WXX100326-08CRI	3-Nitrotoluene	137 > 46	24.43	147.330	34157.301	147.330	2.157	bb	43.2456	108.1	8.1	36.1	8.1	36.1
WXX100326-08CRI	PETN	361 > 62	24.59	5441.954	34157.301	5441.954	79.660	bb	38.1998	95.5	-4.5	961.4	-4.5	961.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/27/10
 Time of Injection 1716
 Standard Number WXX100326-08CRI
 Data File EXP0326055a

HMX	122.0
RDX	106.3
135-TNB	135.7
13-DNB	91.8
Tetryl	89.0
Nitrobenzene	97.8
4A-26-DNT	121.7
2A-46-DNT	94.9
246-TNT	159.8
34-DNT(surr)	130.5
26-DNT	107.5
24-DNT	103.2
2-NT	81.9
4-NT	97.7
3-NT	108.1
PETN	95.5

*MTT
3/22/10*

Total 1743.4

Average 109.0

HW-03/20/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0326060a

Analysis Date: 27-MAR-10 19:43

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	610.55	102	
2,6-Dinitrotoluene-d3	500	449.56	90	
2-Amino-4,6-dinitrotoluene	600	633.856	106	
3,4-Dinitrotoluene	300	303.007	101	
4-Amino-2,6-dinitrotoluene	600	638.97	106	
HMX	600	777.225	130	*
Nitrobenzene	600	534.64	89	
PETN	600	584.848	97	
RDX	600	694.693	116	
Tetryl	600	607.601	101	
m-Dinitrobenzene	600	612.368	102	
m-Nitrotoluene	600	501.175	84	
o-Nitrotoluene	600	506.66	84	
p-Nitrotoluene	600	586.486	98	
1,3,5-Trinitrobenzene	600	592.839	99	
1,3-Dinitrobenzene-d4	500	447.898	90	
2,4,6-Trinitrotoluene	600	723.904	121	*
2,4-Dinitrotoluene	600	582.664	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

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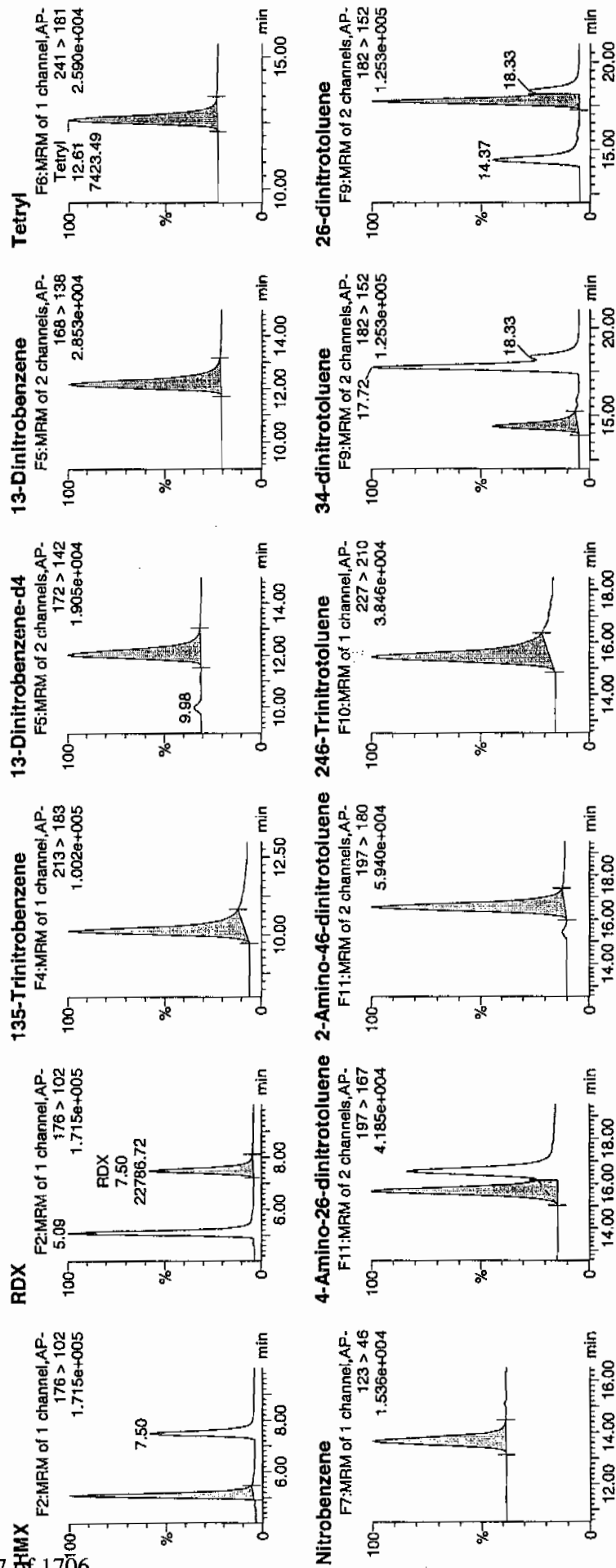
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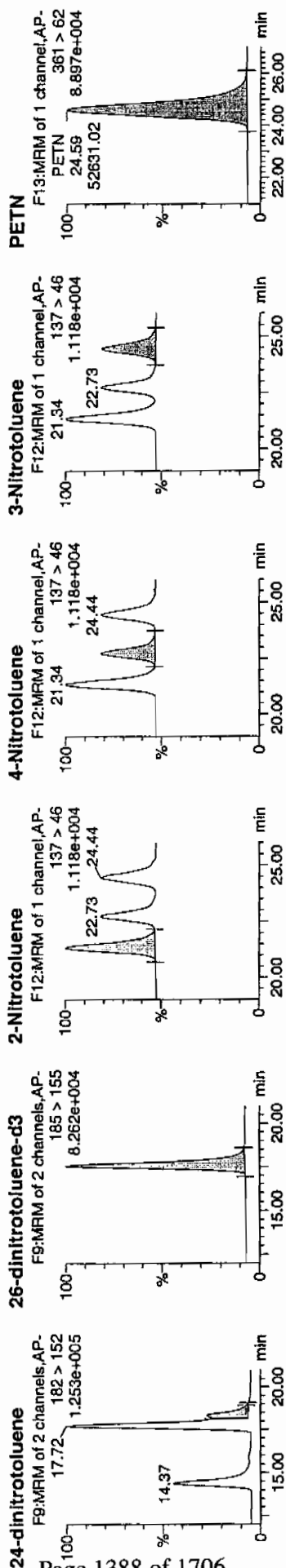
ID: WXX100326-07CCV

Vial: 1:1,B

AP
3/28/10



4mW 03/30/10



ID	Name	Trace	RT	Area	S/Area	Abs/Hesp	Response	Flags	Mod.Date	Mod.Time	Injume	Q2Red	Dev	SN
WXX100326-07CCV	HMX	176 > 102	5.09	34666.508	5479.929	34666.508	3163.044	bb			777.2251	129.5	29.5	1293.4
WXX100326-07CCV	RDX	176 > 102	7.50	22786.715	5479.929	22786.715	2079.107	bb			694.6928	115.8	15.8	735.4
WXX100326-07CCV	135-Trinitrobenzene	213 > 183	10.12	28543.680	5479.929	28543.680	2604.384	bb			592.8395	98.8	-1.2	1697.3
WXX100326-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	5479.929	5479.929	5479.929	5479.929	bb			447.8976	89.6	-10.4	131.5
WXX100326-07CCV	13-Dinitrobenzene	168 > 138	12.17	8947.584	5479.929	8947.584	816.396	bb			612.3683	102.1	2.1	592.8
WXX100326-07CCV	Tetryl	241 > 181	12.61	7423.490	5479.929	7423.490	677.335	bb			607.6013	101.3	1.3	524.7
WXX100326-07CCV	Nitrobenzene	123 > 46	13.66	3536.566	5479.929	3536.566	322.684	bb			534.6397	89.1	-10.9	297.0
WXX100326-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.67	15240.878	33006.859	15240.878	230.874	MM	28-Mar-10	12:41:25	638.9704	106.5	6.5	668.9
WXX100326-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.54	22663.676	33006.859	22663.676	343.318	bb			633.8563	105.6	5.6	768.8
WXX100326-07CCV	246-Trinitrotoluene	227 > 210	15.44	15392.934	33006.859	15392.934	233.178	bb			723.9040	120.7	20.7	861.7
WXX100326-07CCV	34-dinitrotoluene	182 > 152	14.37	21136.768	33006.859	21136.768	320.188	bb			303.0071	101.0	1.0	268.9
WXX100326-07CCV	26-dinitrotoluene	182 > 152	17.72	46098.133	33006.859	46098.133	698.311	MM	28-Mar-10	12:46:44	610.5496	101.8	1.8	654.3
WXX100326-07CCV	24-dinitrotoluene	182 > 152	18.33	11389.622	33006.859	11389.622	172.534	MM	28-Mar-10	12:48:46	582.6636	97.1	-2.9	146.1
WXX100326-07CCV	26-dinitrotoluene-d3	185 > 155	17.57	33006.859	33006.859	33006.859	33006.859	bb			449.5603	89.9	-10.1	1833.3
WXX100326-07CCV	2-Nitrotoluene	137 > 46	21.34	2504.060	33006.859	2504.060	37.932	bb			506.6603	84.4	-15.6	413.7
WXX100326-07CCV	4-Nitrotoluene	137 > 46	22.73	1506.245	33006.859	1506.245	22.817	bb			586.4865	97.7	-2.3	250.4
WXX100326-07CCV	3-Nitrotoluene	137 > 46	24.44	1649.908	33006.859	1649.908	24.993	bb			501.1749	83.5	-16.5	249.4
WXX100326-07CCV	PETN	361 > 62	24.59	52631.023	33006.859	52631.023	797.274	bb			584.8480	97.5	-2.5	916.9

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/27/10
 Time of Injection: 1943
 Standard Number: WXX100326-07CCV
 Data File: EXP0326060a

HMX	129.5
RDX	115.8
135-TNB	98.8
13-DNB	102.1
Tetryl	101.3
Nitrobenzene	89.1
4A-26-DNT	106.5
2A-46-DNT	105.6
246-TNT	120.7
34-DNT(surr)	101.0
26-DNT	101.8
24-DNT	97.1
2-NT	84.4
4-NT	97.7
3-NT	83.5
PETN	97.5

*1007
3/29/10*

Total 1632.4

Average 102.0

HMX-03/30/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0326062a

Analysis Date: 27-MAR-10 20:42

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	58.744	147	*
1,3-Dinitrobenzene-d4	500	423.056	85	
2,4,6-Trinitrotoluene	40	39.807	100	
2,4-Dinitrotoluene	40	47.549	119	
2,6-Dinitrotoluene	40	41.725	104	
2,6-Dinitrotoluene-d3	500	461.371	92	
2-Amino-4,6-dinitrotoluene	40	47.807	120	
3,4-Dinitrotoluene	20	19.387	97	
4-Amino-2,6-dinitrotoluene	40	36.678	92	
HMX	40	53.859	135	*
Nitrobenzene	40	46.418	116	
PETN	40	40.098	100	
RDX	40	52.946	132	*
Tetryl	40	39.526	99	
m-Dinitrobenzene	40	41.563	104	
m-Nitrotoluene	40	35.636	89	
o-Nitrotoluene	40	45.612	114	
p-Nitrotoluene	40	40.532	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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326062a

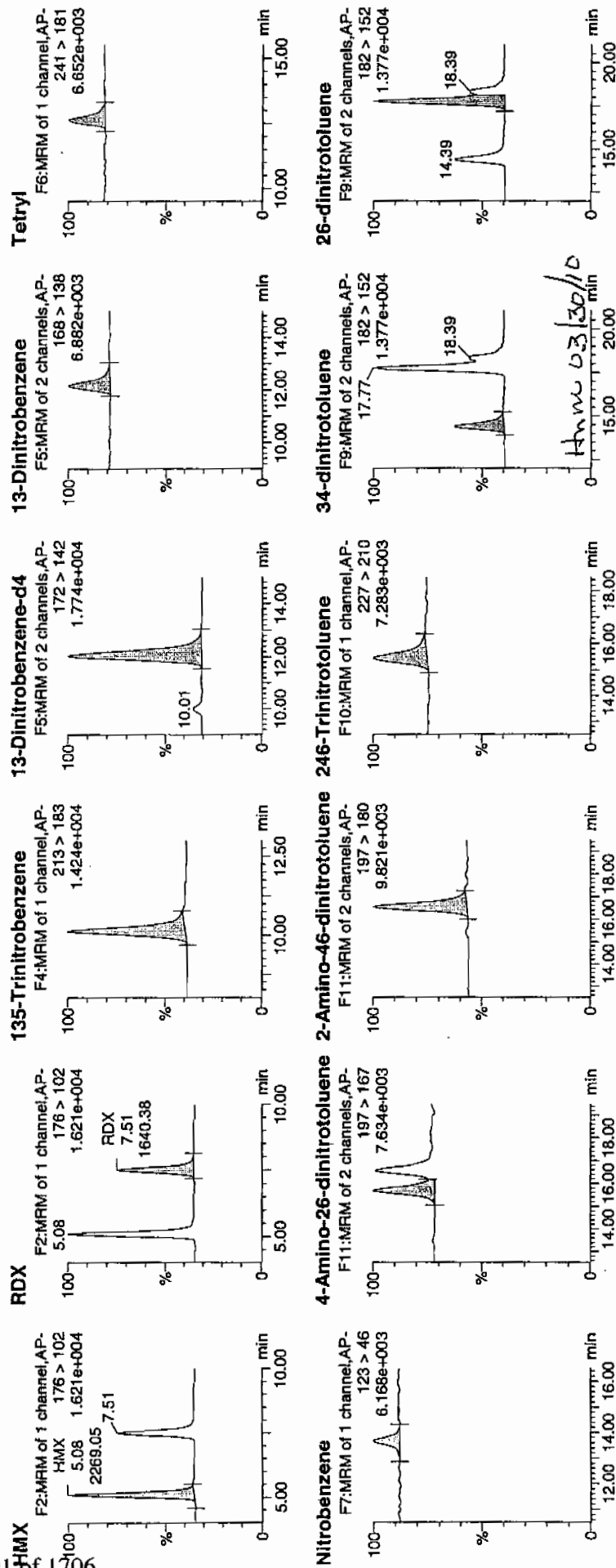
Date: 27-Mar-2010

Time: 20:42:55

ID: WXX100326-08CRI

Vial: 1:1,C

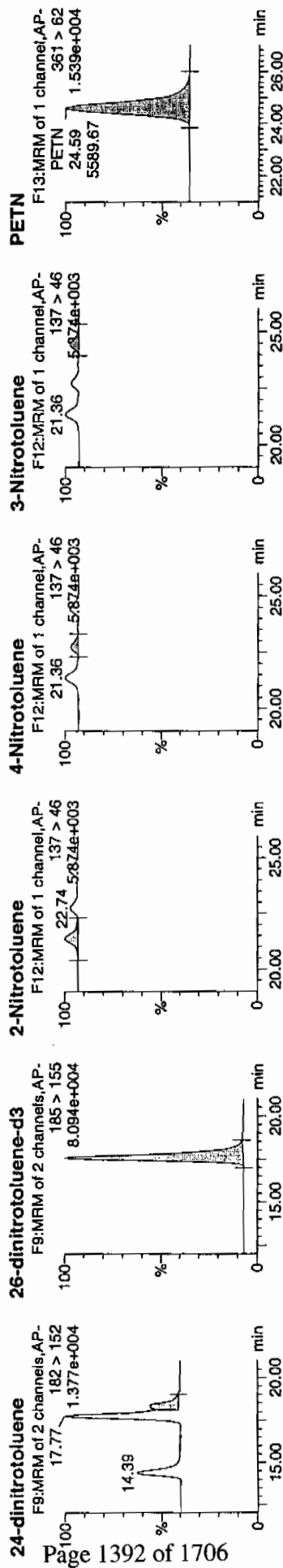
WXX
10/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Inj Vol	Int Rec	Std Dev	SN
WXX100326-08CRI	HMX	176 > 102	5.08	2269.050	5176.002	2269.050	219.189	bb			53.8594	134.6	34.6	232.9
WXX100326-08CRI	RDX	176 > 102	7.51	1640.378	5176.002	1640.378	158.460	bb			52.9463	132.4	32.4	142.1
WXX100326-08CRI	135-Trinitrobenzene	213 > 183	10.13	2671.480	5176.002	2671.480	258.064	bb			58.7435	146.9	46.9	257.7
WXX100326-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	5176.002		5176.002	5176.002	bb			423.0564	84.6	-15.4	323.7
WXX100326-08CRI	13-Dinitrobenzene	168 > 138	12.17	573.608	5176.002	573.608	55.410	bb			41.5826	103.9	3.9	56.4
WXX100326-08CRI	Tetryl	241 > 181	12.63	456.136	5176.002	456.136	44.063	bb			39.5262	98.8	-1.2	47.2
WXX100326-08CRI	Nitrobenzene	123 > 46	13.67	290.020	5176.002	290.020	28.016	bb			46.4182	116.0	16.0	19.5
WXX100326-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	897.823	33873.980	897.823	13.252	MM	28-Mar-10	12:41:34	36.6775	91.7	-8.3	42.3
WXX100326-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.55	1754.246	33873.980	1754.246	25.894	bb			47.8067	119.5	19.5	60.9
WXX100326-08CRI	246-Trinitrotoluene	227 > 210	14.45	868.682	33873.980	868.682	12.822	bb			39.8069	99.5	-0.5	89.2
WXX100326-08CRI	34-dinitrotoluene	182 > 152	14.39	1387.915	33873.980	1387.915	20.486	bb			19.3872	96.9	-3.1	51.0
WXX100326-08CRI	26-dinitrotoluene	182 > 152	17.77	3233.085	33873.980	3233.085	47.722	MM	28-Mar-10	12:45:04	41.7246	104.3	4.3	132.6
WXX100326-08CRI	24-dinitrotoluene	182 > 152	18.39	953.886	33873.980	953.886	14.080	MM	28-Mar-10	12:48:54	47.5492	118.9	18.9	33.5
WXX100326-08CRI	26-dinitrotoluene-d3	185 > 155	17.58	33873.980		33873.980	33873.980	bb			461.3707	92.3	-7.7	2518.8
WXX100326-08CRI	2-Nitrotoluene	137 > 46	21.36	231.352	33873.980	231.352	3.415	bb			45.6124	114.0	14.0	45.0
WXX100326-08CRI	4-Nitrotoluene	137 > 46	22.74	106.832	33873.980	106.832	1.577	bb			40.5323	101.3	1.3	23.7
WXX100326-08CRI	3-Nitrotoluene	137 > 46	24.44	120.400	33873.980	120.400	1.777	bb			35.6364	89.1	-10.9	27.4
WXX100326-08CRI	PETN	361 > 62	24.59	5589.669	33873.980	5589.669	82.507	bb			40.0977	100.2	0.2	1295.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/27/10
 Time of Injection 2042
 Standard Number WXX100326-08CRI
 Data File EXP0326062a

HMX	134.6
RDX	132.4
135-TNB	146.9
13-DNB	103.9
Tetryl	98.8
Nitrobenzene	116.0
4A-26-DNT	91.7
2A-46-DNT	119.5
246-TNT	99.5
34-DNT(surr)	96.9
26-DNT	104.3
24-DNT	118.9
2-NT	114.0
4-NT	101.3
3-NT	89.1
PETN	100.2

*not
3/28/10*

Total 1768.0

from 03/30/10

Average 110.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160013.wiff

Analysis Date: 16-MAR-10 11:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	81.8	82	
2,6-Diamino-4-nitrotoluene	100	87.6	88	
3,4-Dinitrotoluene	50	46.1	92	
3,5-Dinitroaniline	100	92.4	92	
TATB	100	98.9	99	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

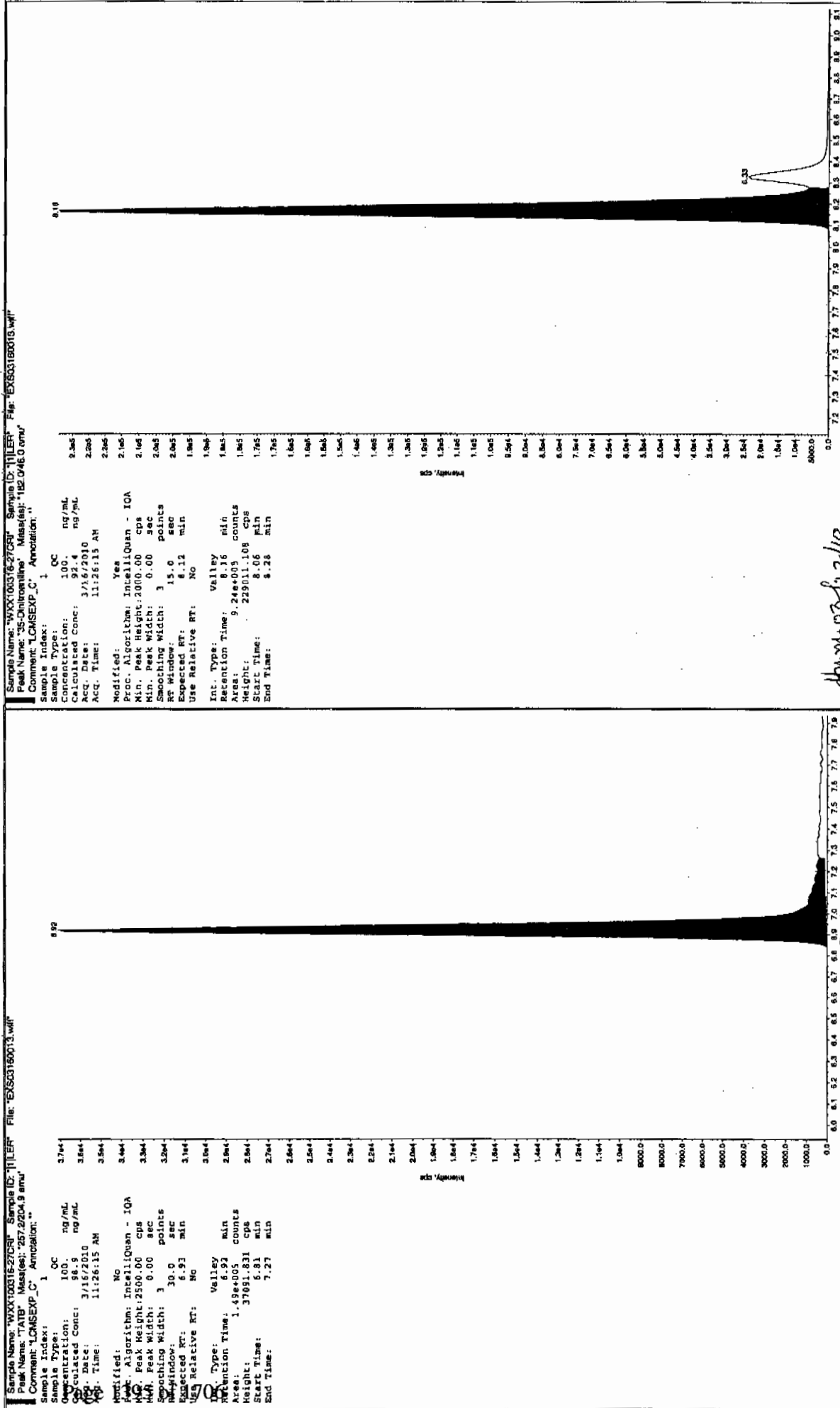
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

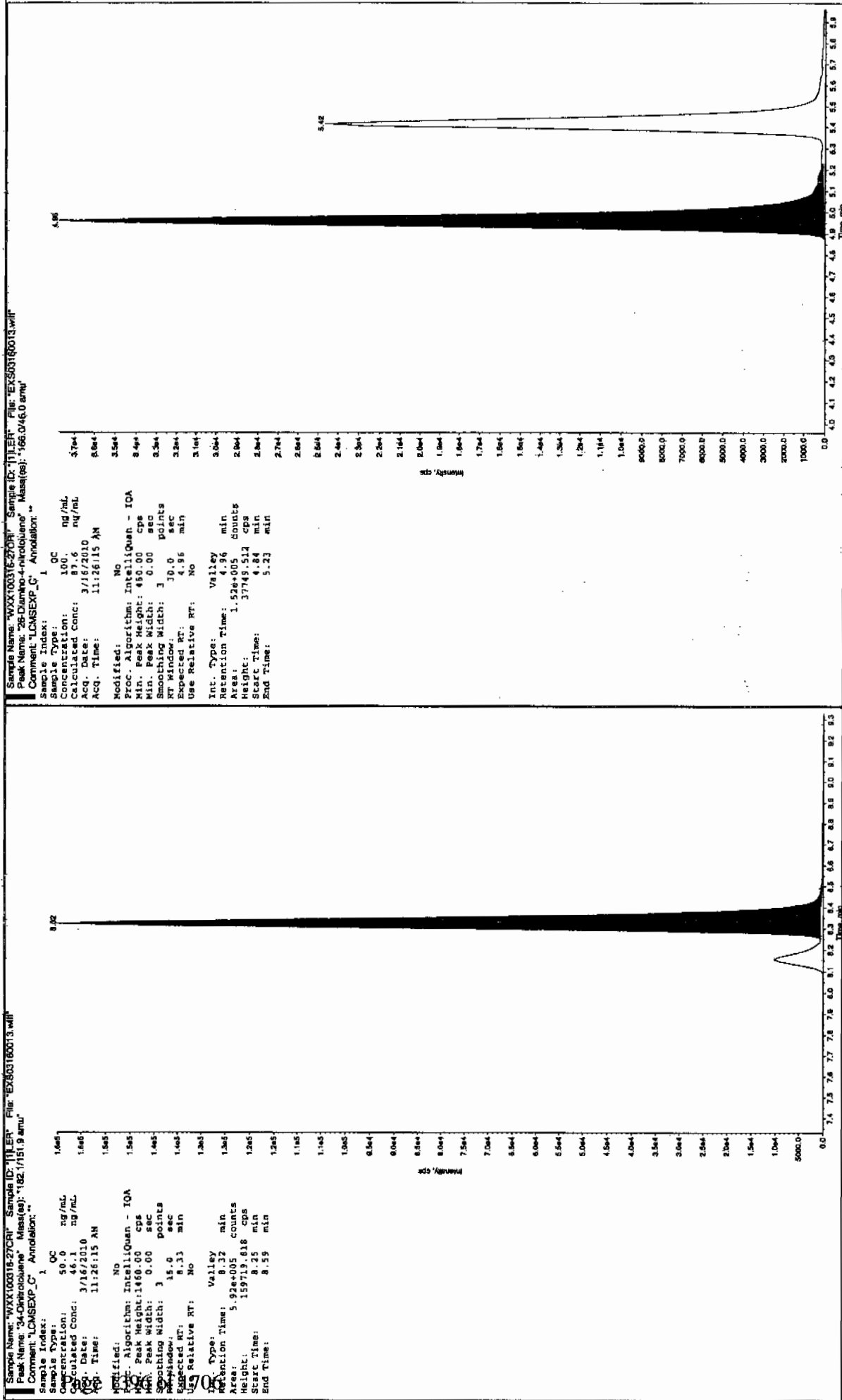
Other Target Analytes 70-130%

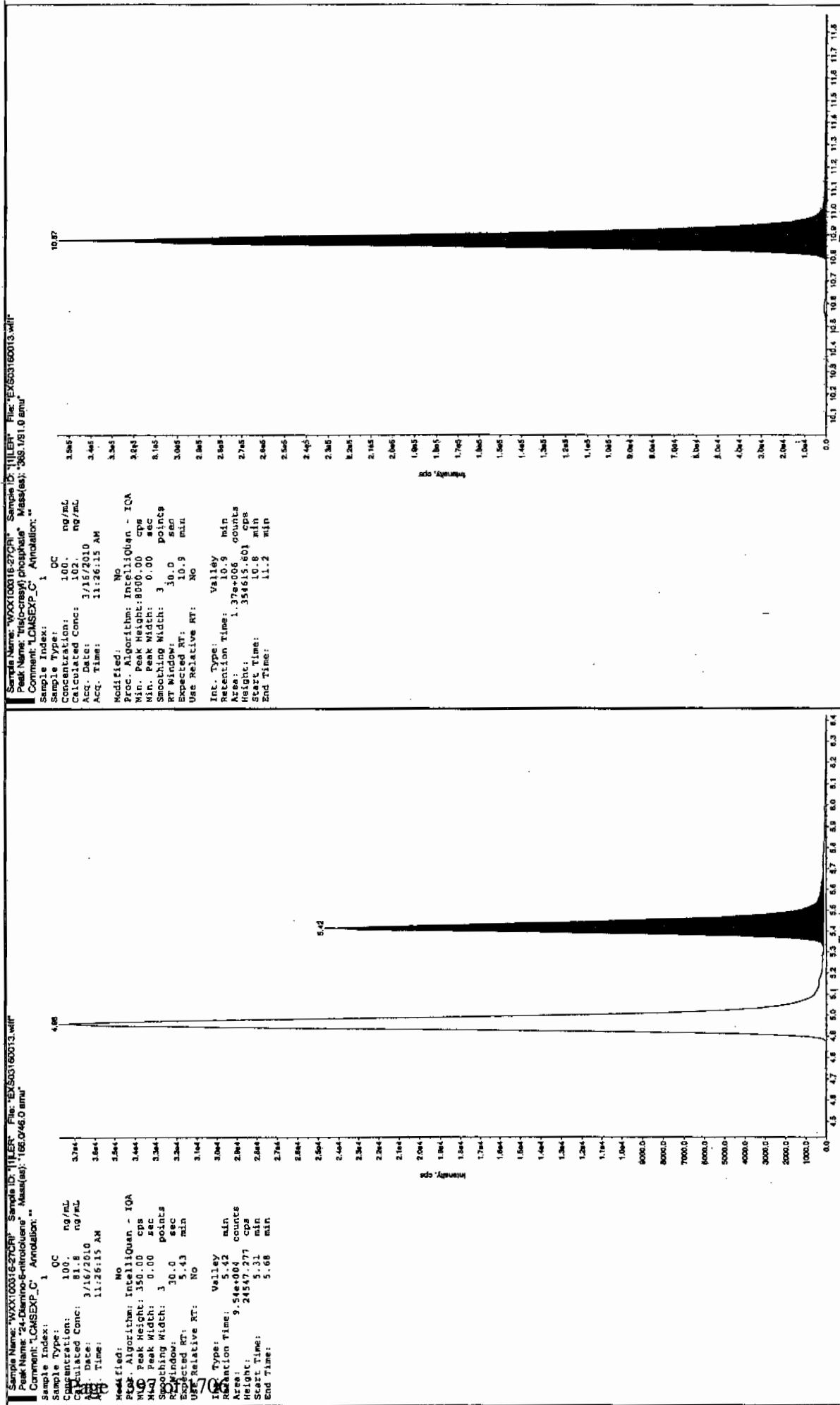
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/8/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160024.wiff

Analysis Date: 16-MAR-10 14:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	446	89	
2,6-Diamino-4-nitrotoluene	500	441	88	
3,4-Dinitrotoluene	250	221	88	
3,5-Dinitroaniline	500	503	101	
TATB	500	499	100	
tris(o-cresyl) phosphate	500	487	97	

Recovery Limits:

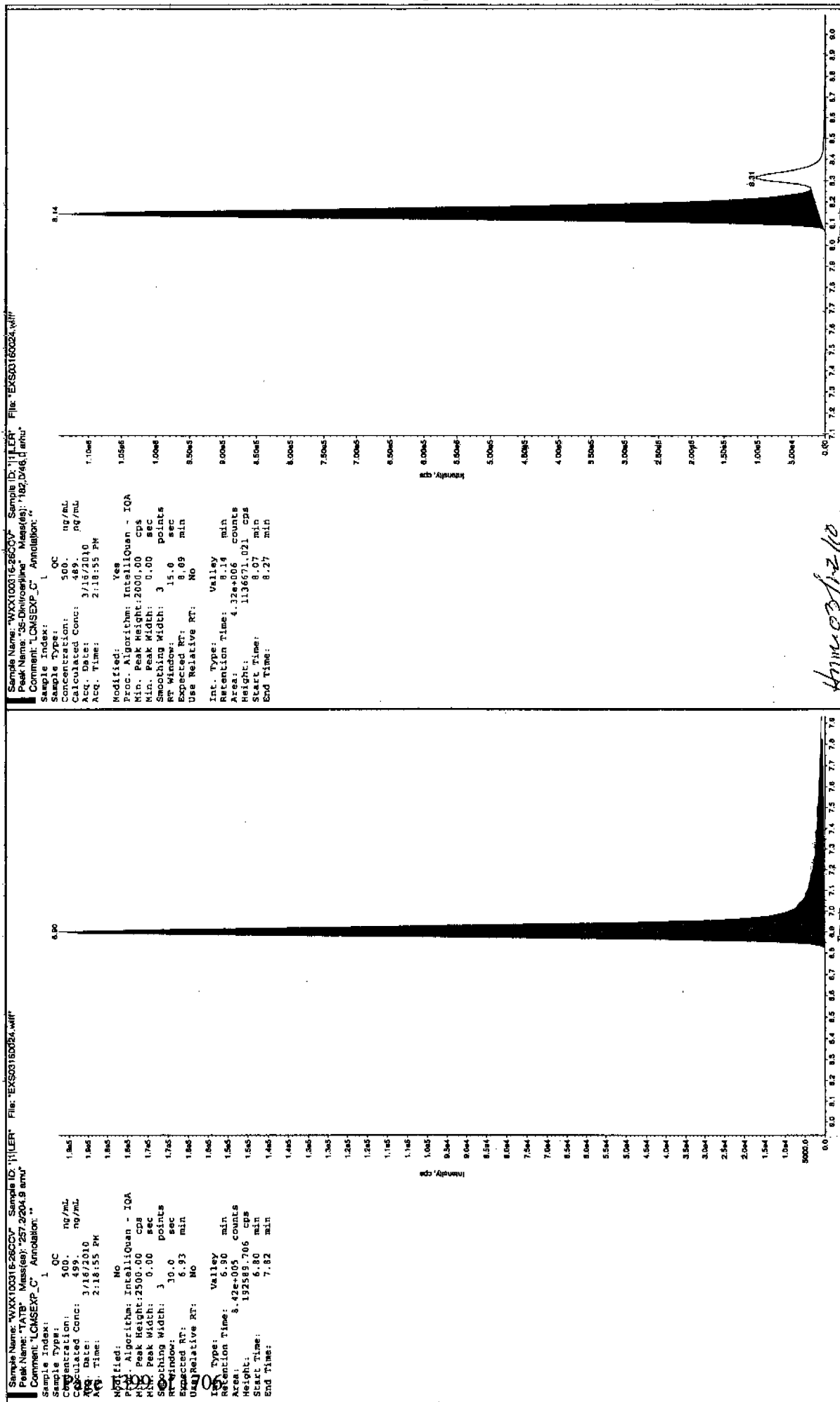
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

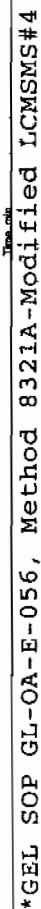
Other Target Analytes 80-120%

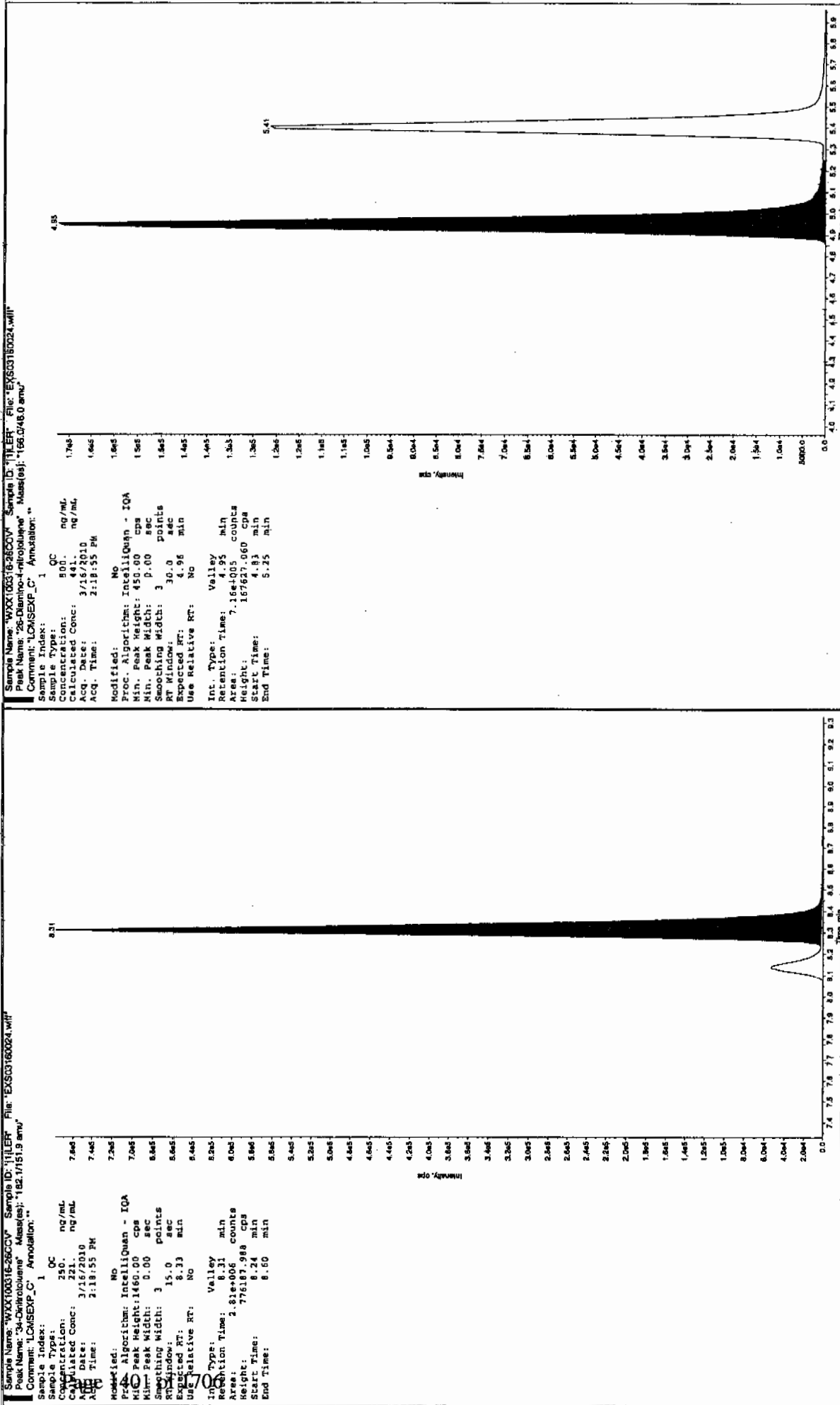
Column used to flag Recovery outside of Limits

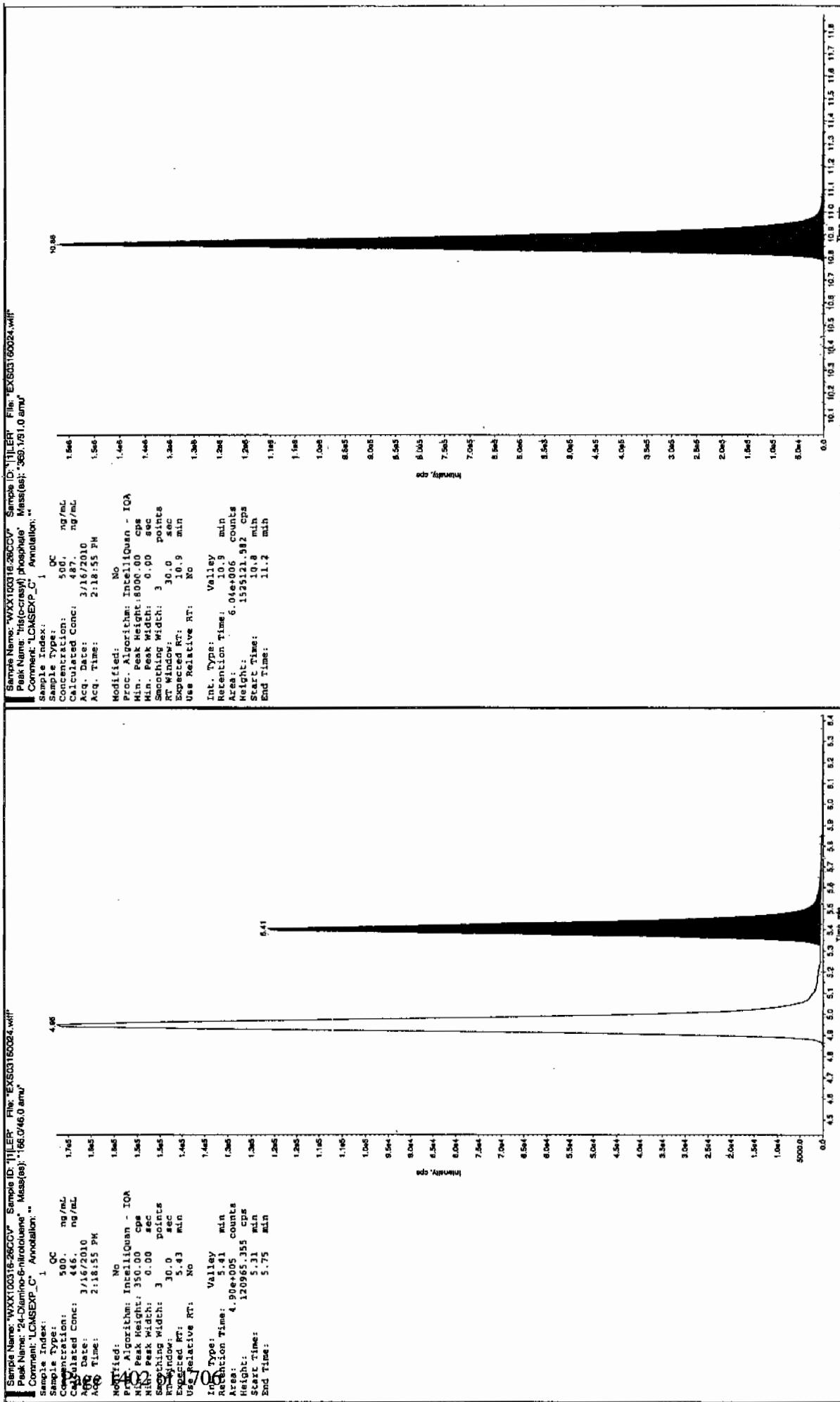
* Value outside of Recovery Limits

Before Jan 31/8/10









7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160026.wiff

Analysis Date: 16-MAR-10 14:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	87.3	87	
2,6-Diamino-4-nitrotoluene	100	83.1	83	
3,4-Dinitrotoluene	50	46.2	92	
3,5-Dinitroaniline	100	89.4	89	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	96.9	97	

Recovery Limits:

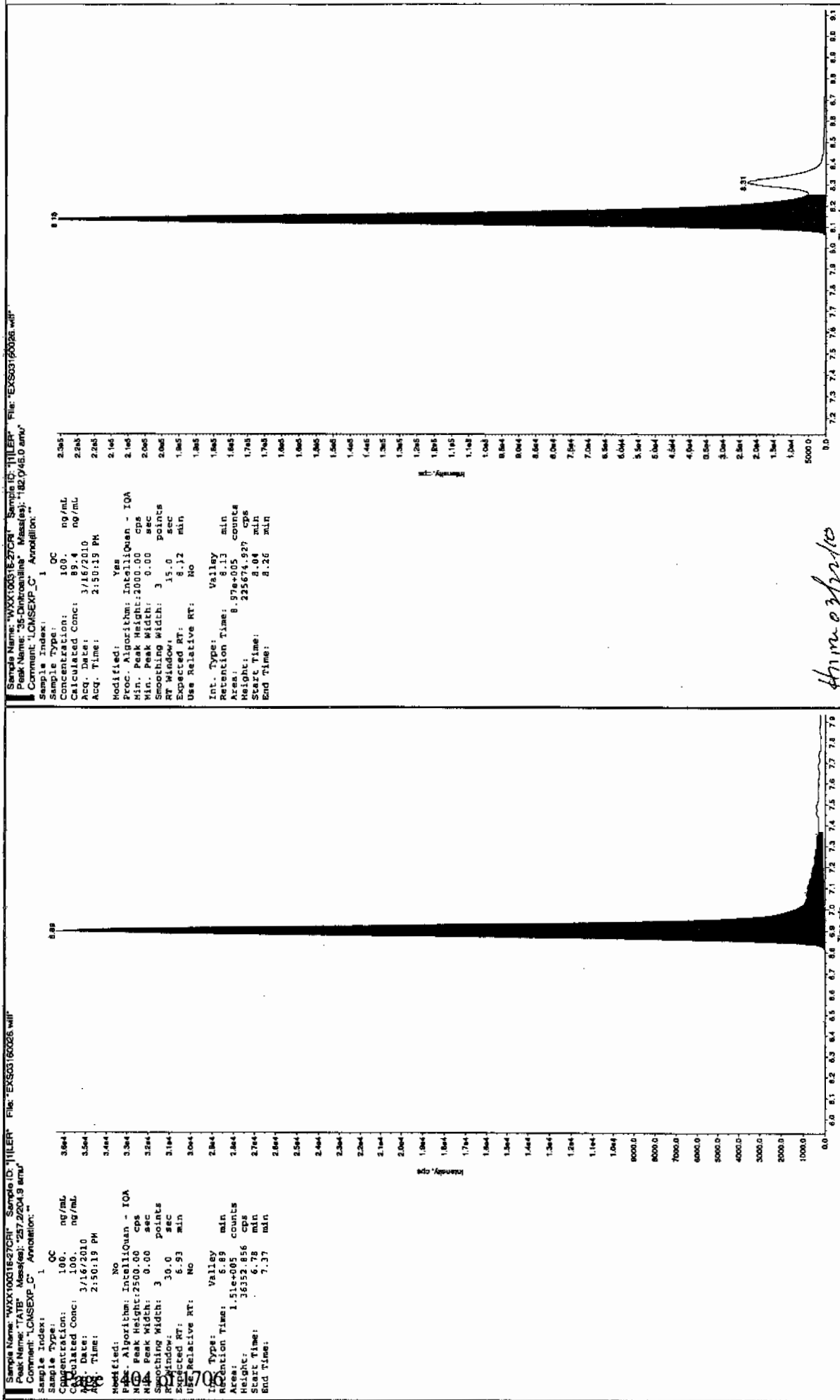
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

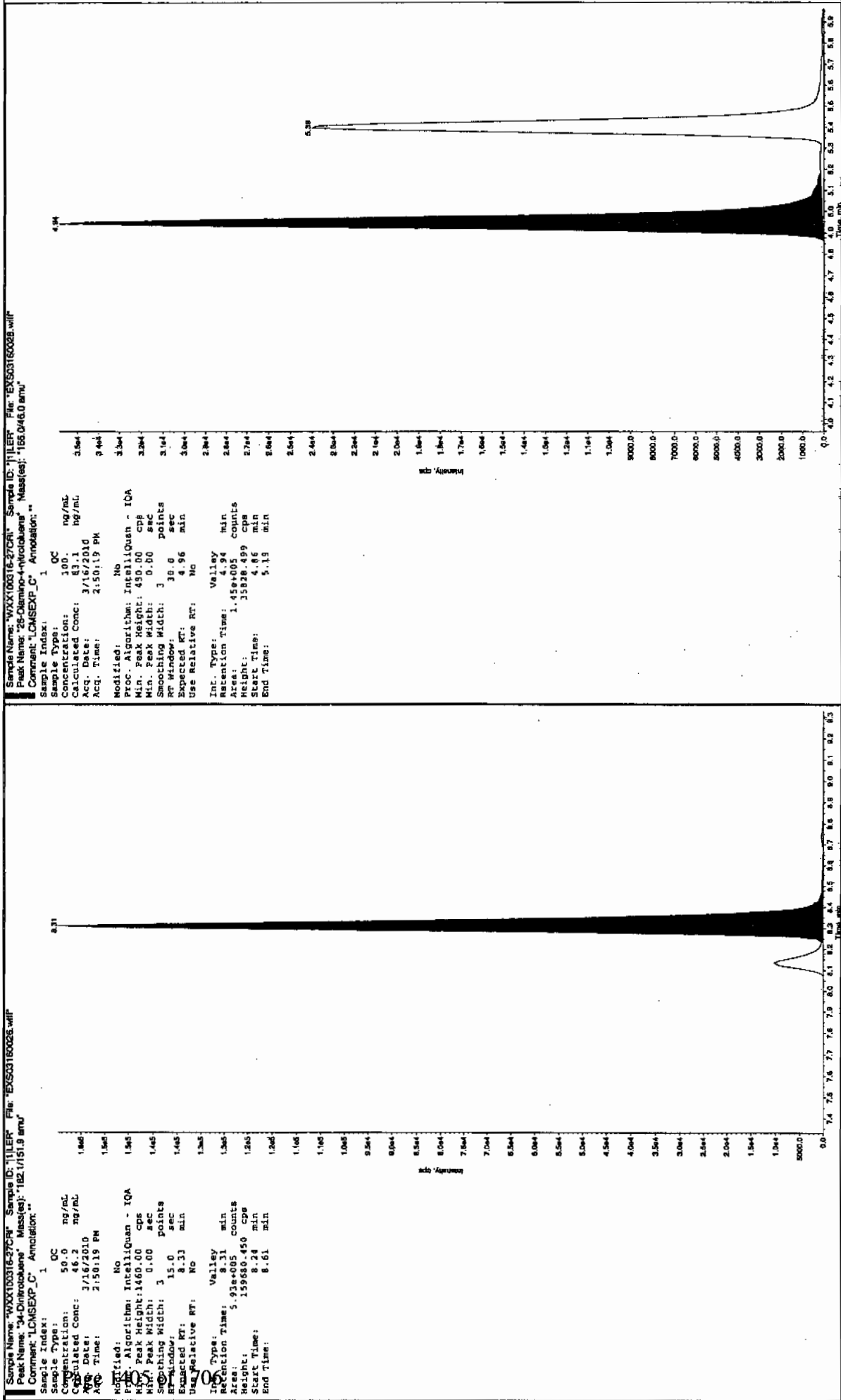
Column used to flag Recovery outside of Limits

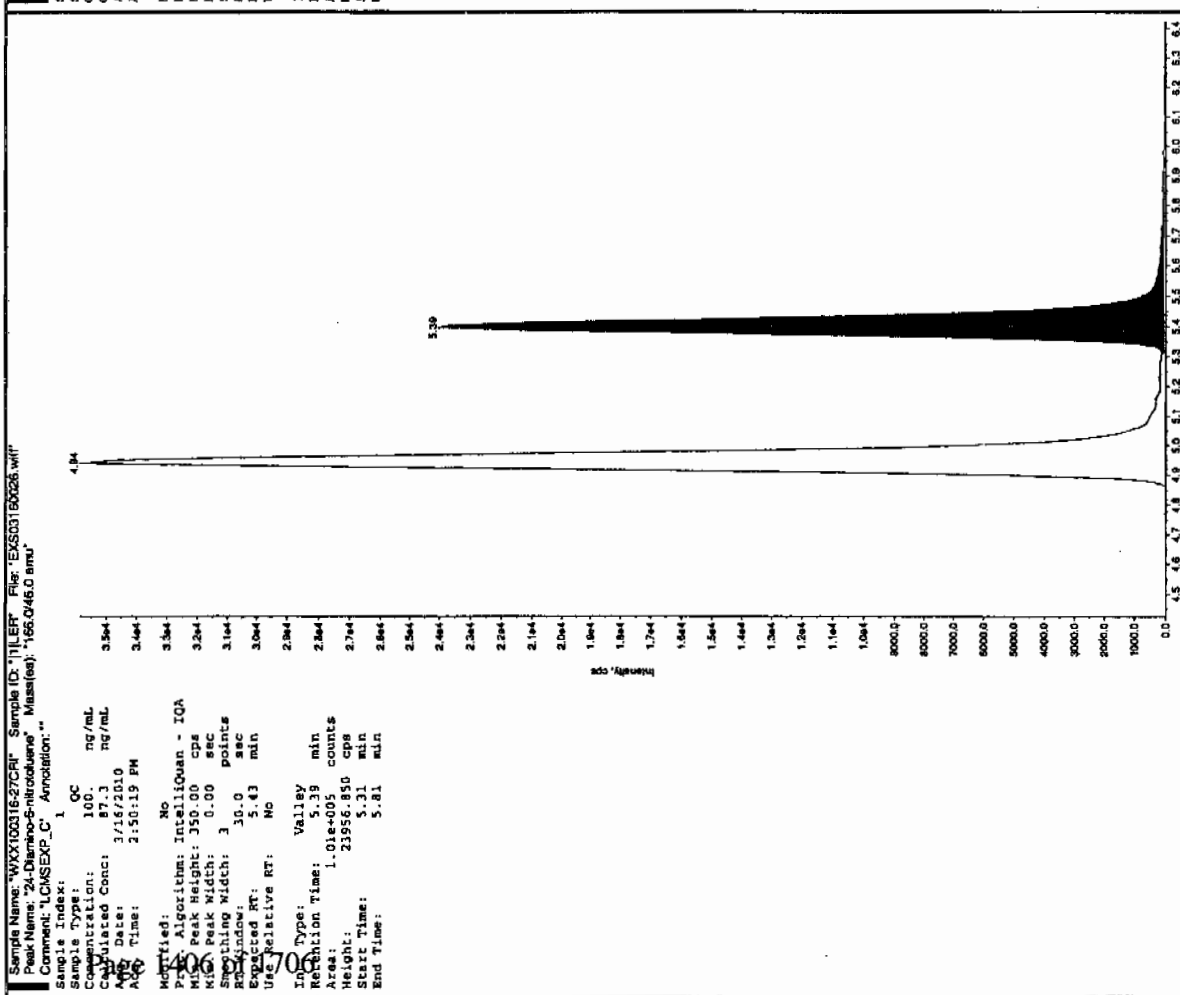
* Value outside of Recovery Limits

Run 311010



Run 311010





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160050.wiff

Analysis Date: 16-MAR-10 21:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	505	101	
2,4-Diamino-6-nitrotoluene	500	513	103	
2,6-Diamino-4-nitrotoluene	500	535	107	
3,4-Dinitrotoluene	250	212	85	
3,5-Dinitroaniline	500	477	95	
TATB	500	496	99	

Recovery Limits:

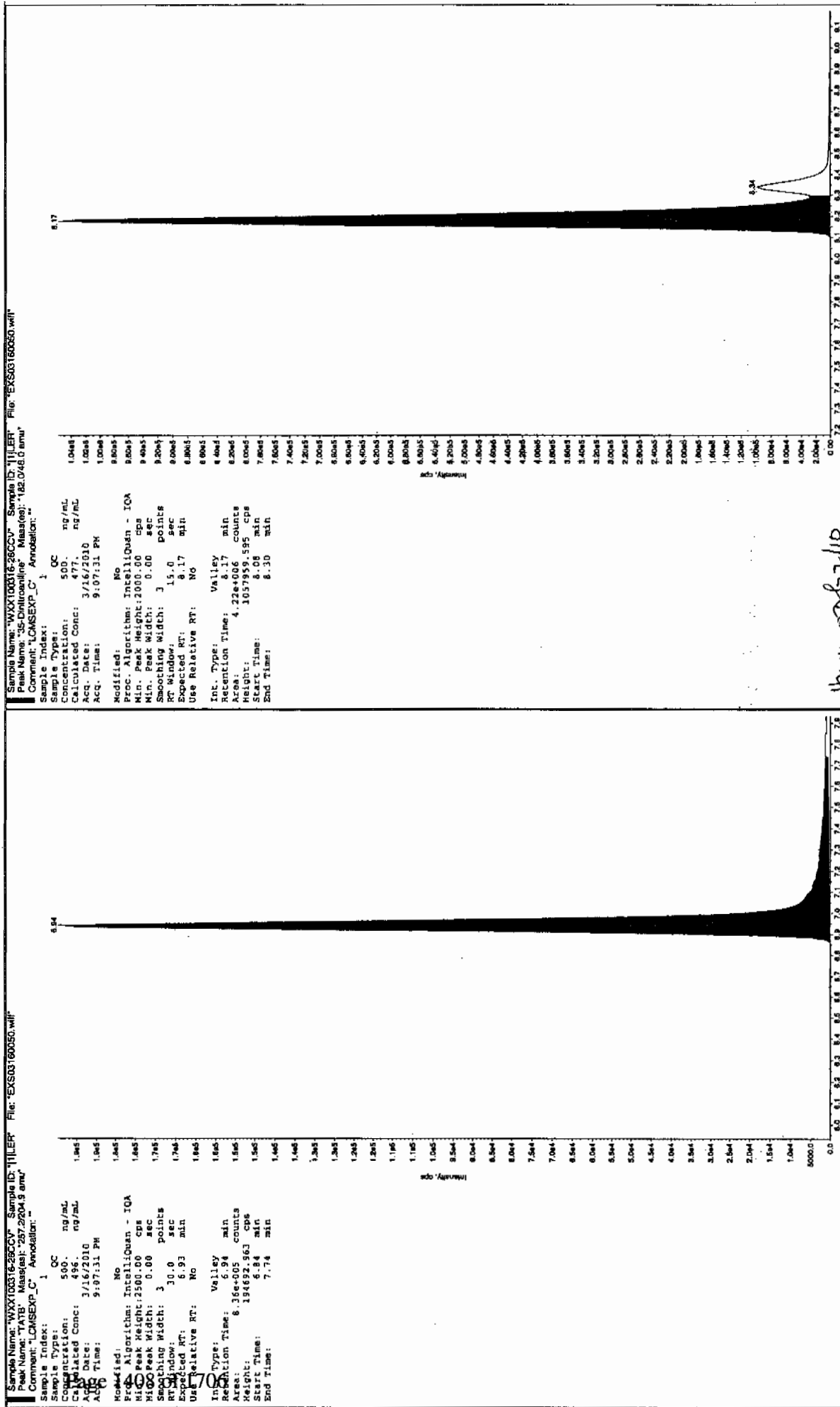
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

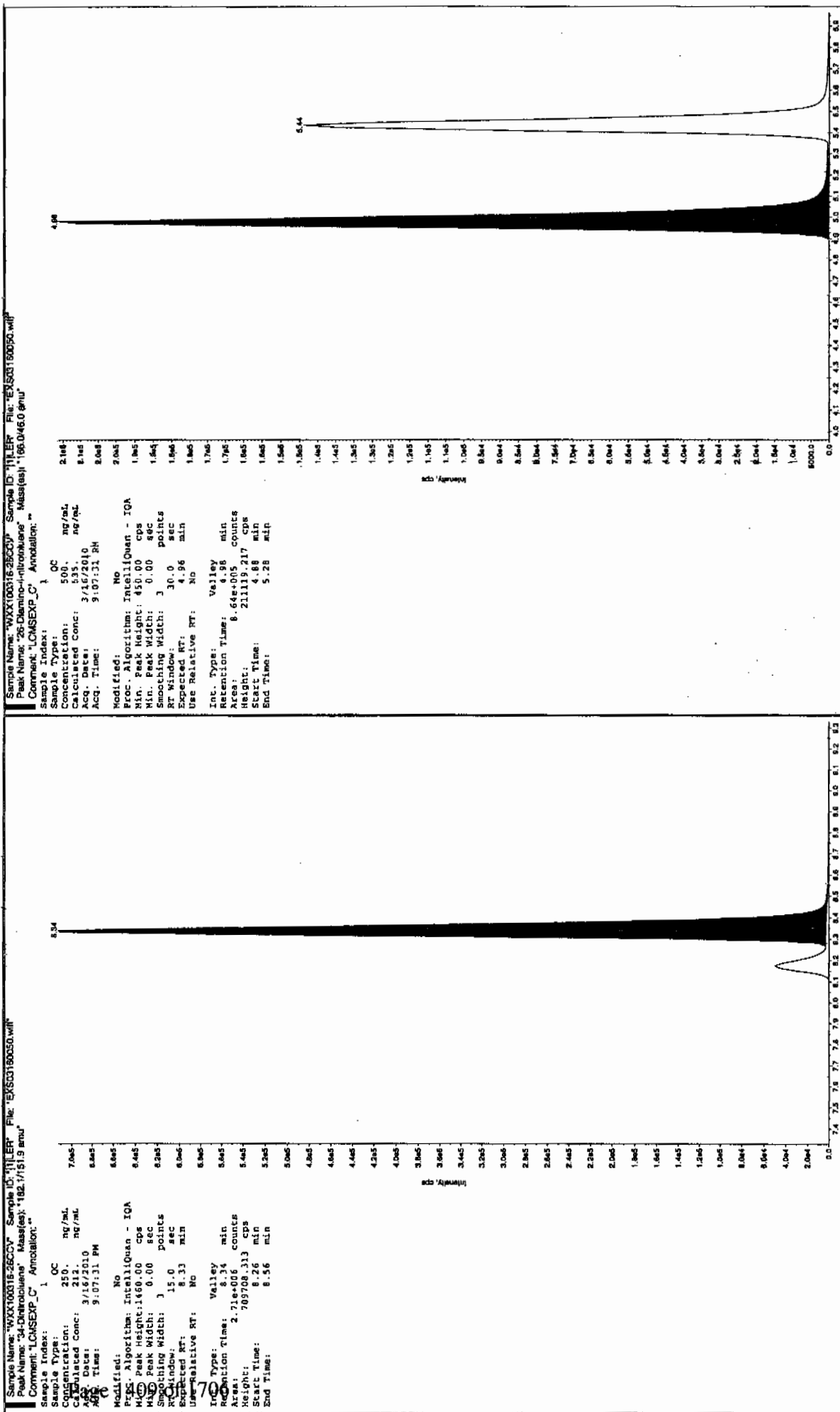
Other Target Analytes 80-120%

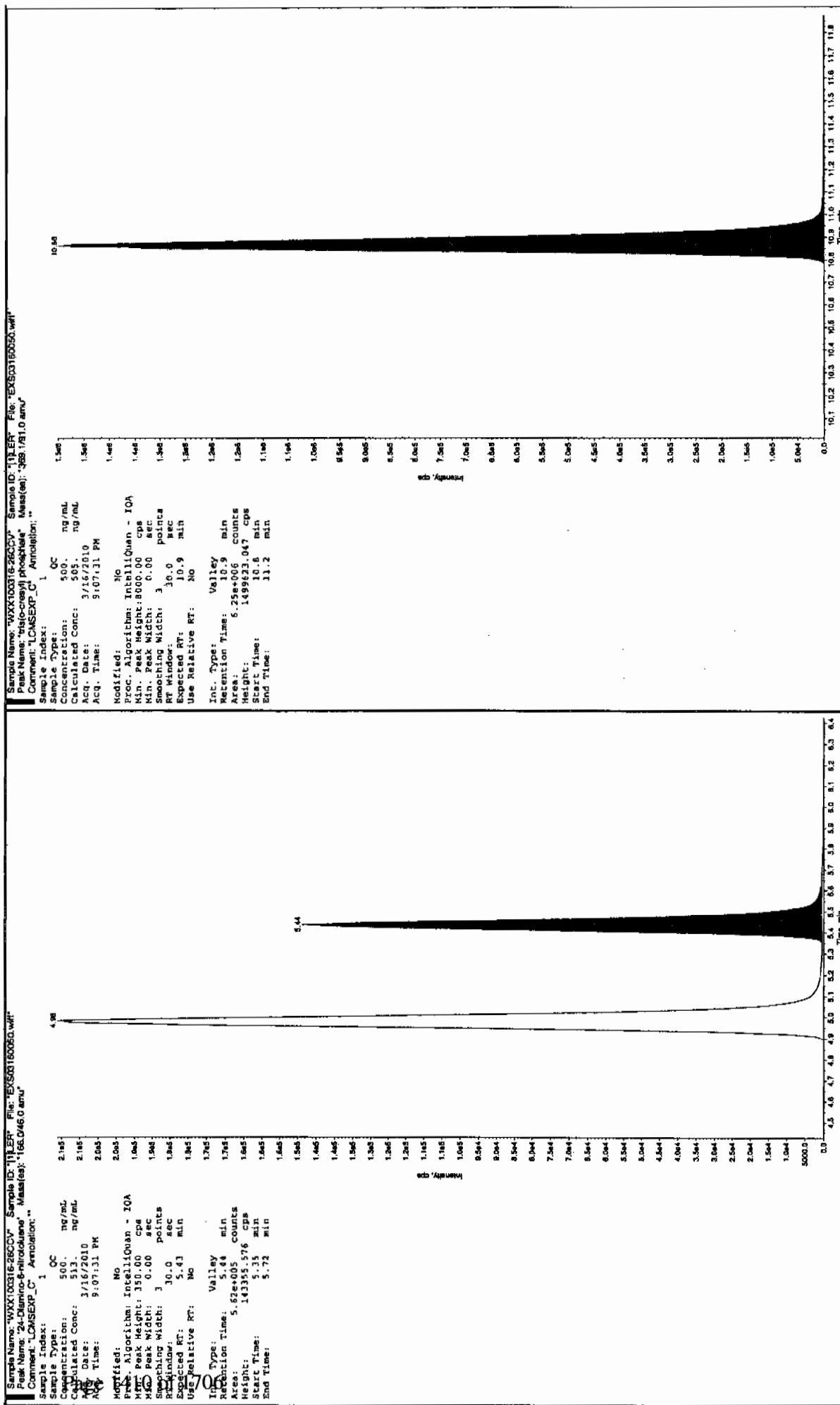
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

GLA 3/10/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160052.wiff

Analysis Date: 16-MAR-10 21:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	99.1	99	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	43.8	88	
3,5-Dinitroaniline	100	88.7	89	
TATB	100	103	103	
tris(o-cresyl) phosphate	100	104	104	

Recovery Limits:

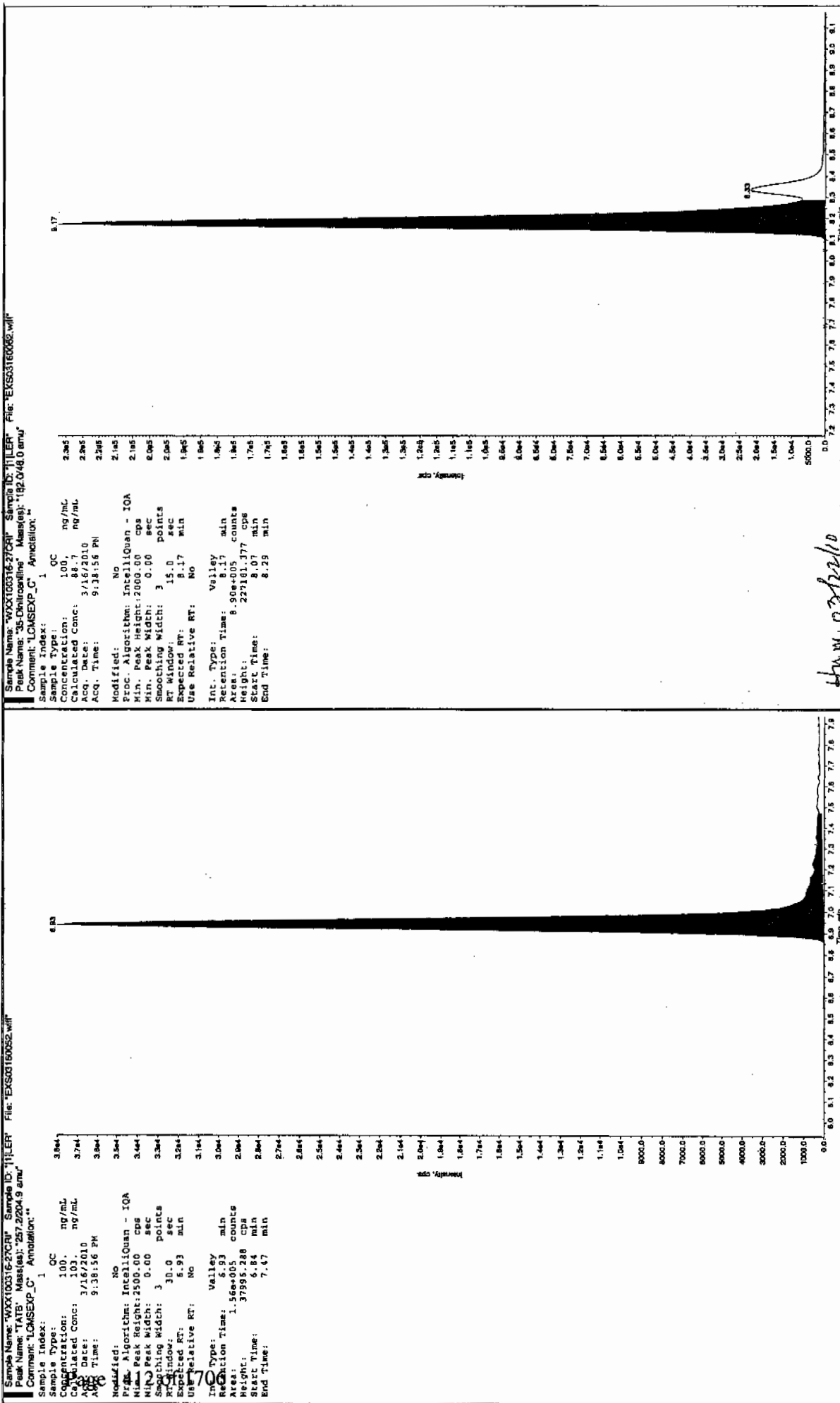
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

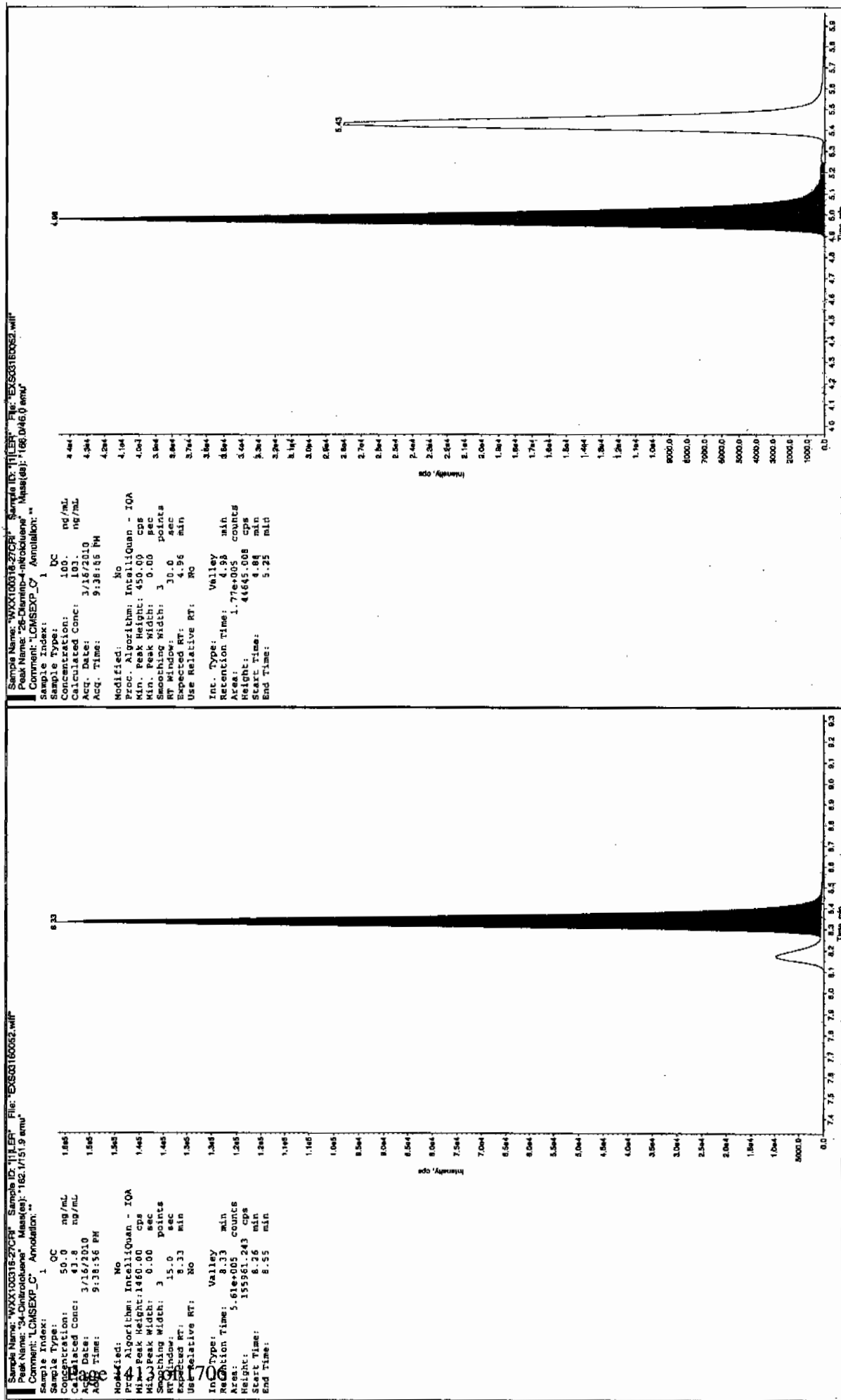
Other Target Analytes 70-130%

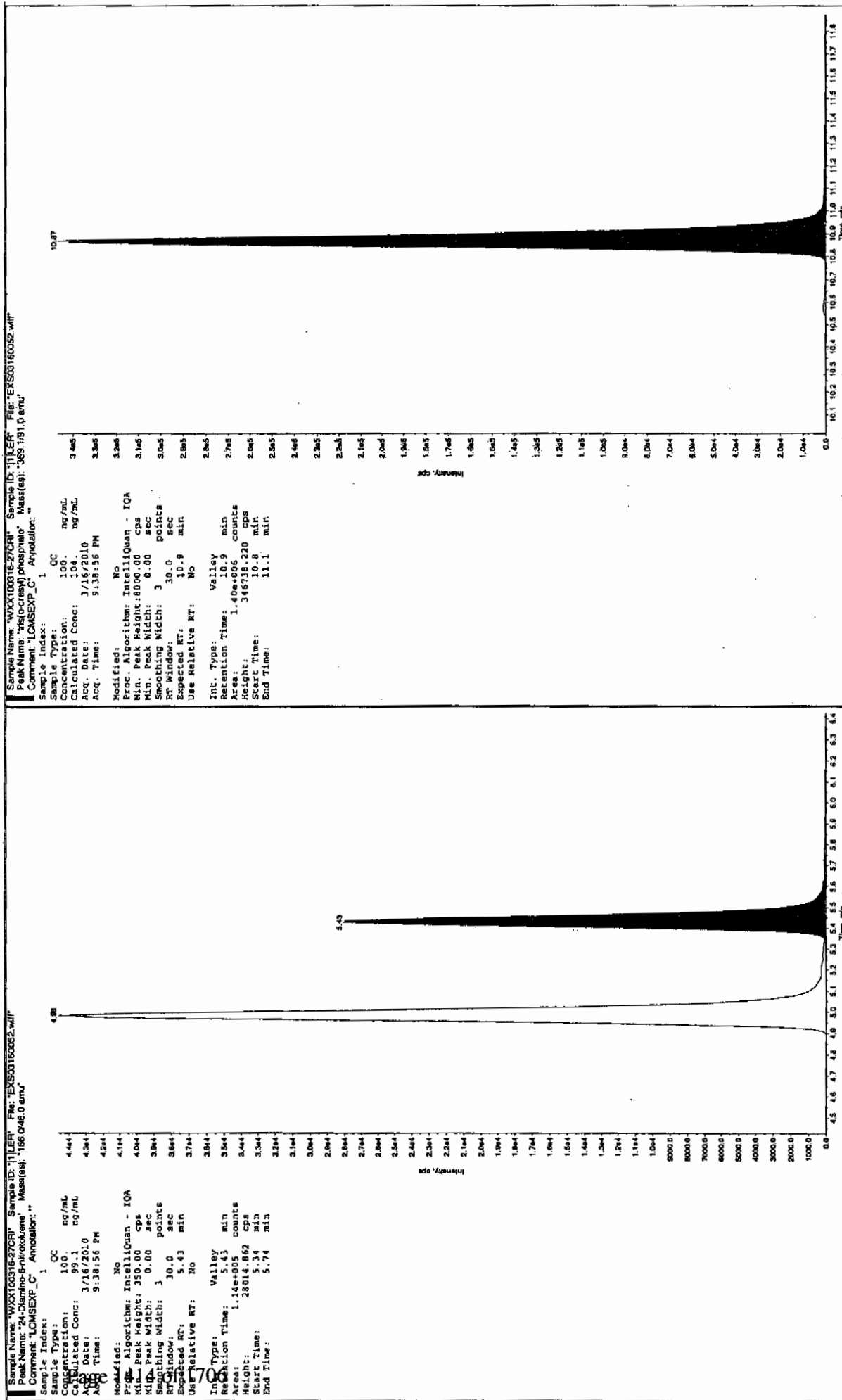
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 3/10/10







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160062.wiff

Analysis Date: 17-MAR-10 00:16

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	571	114	
2,6-Diamino-4-nitrotoluene	500	558	112	
3,4-Dinitrotoluene	250	229	91	
3,5-Dinitroaniline	500	491	98	
TATB	500	520	104	
tris(o-cresyl) phosphate	500	514	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

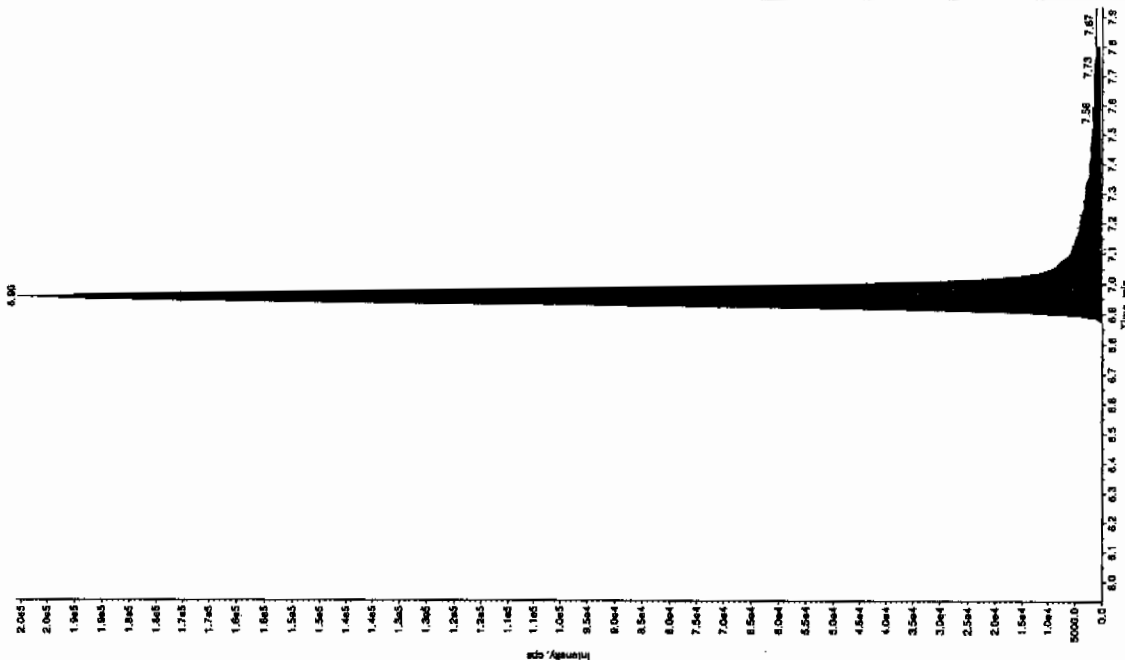
* Value outside of Recovery Limits

800 3/11/10

Sample Name: "WXX100316-260CV" Sample ID: "11LEF" File: "EX803160045.wif"
 Peak Name: "TAIB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 500
 Calculated Conc: 520.0 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 12:16:04 AM

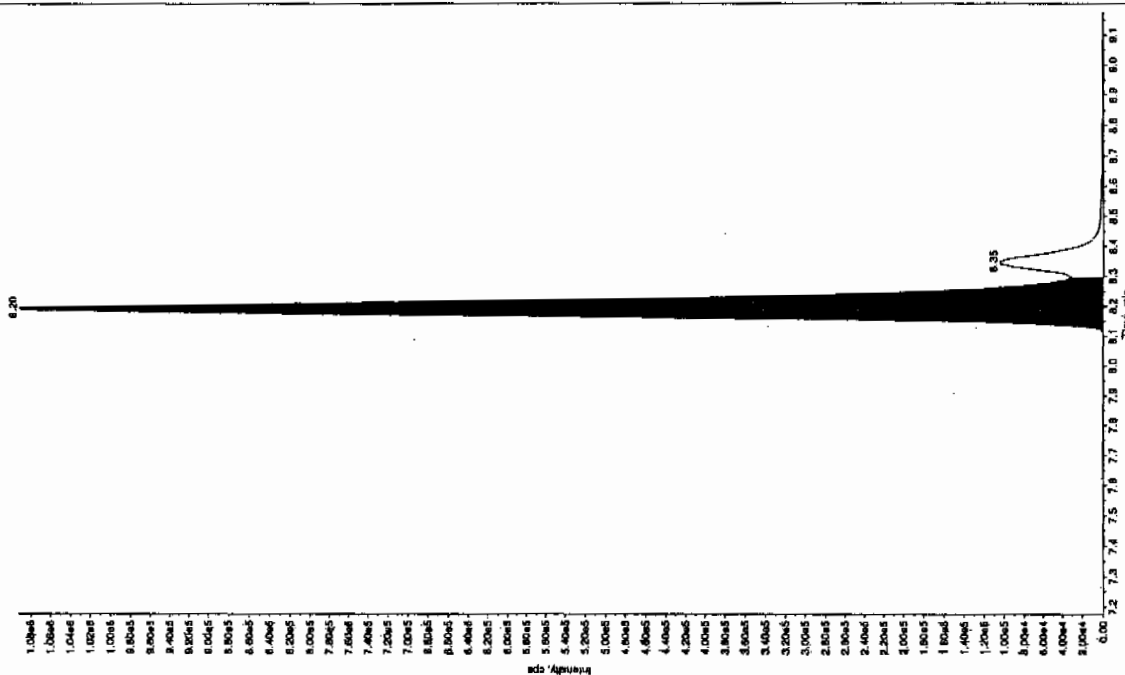
Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.96 min
 Peak Height: 8.79e+005 counts
 Start Time: 200722.402 min
 End Time: 7.80 min



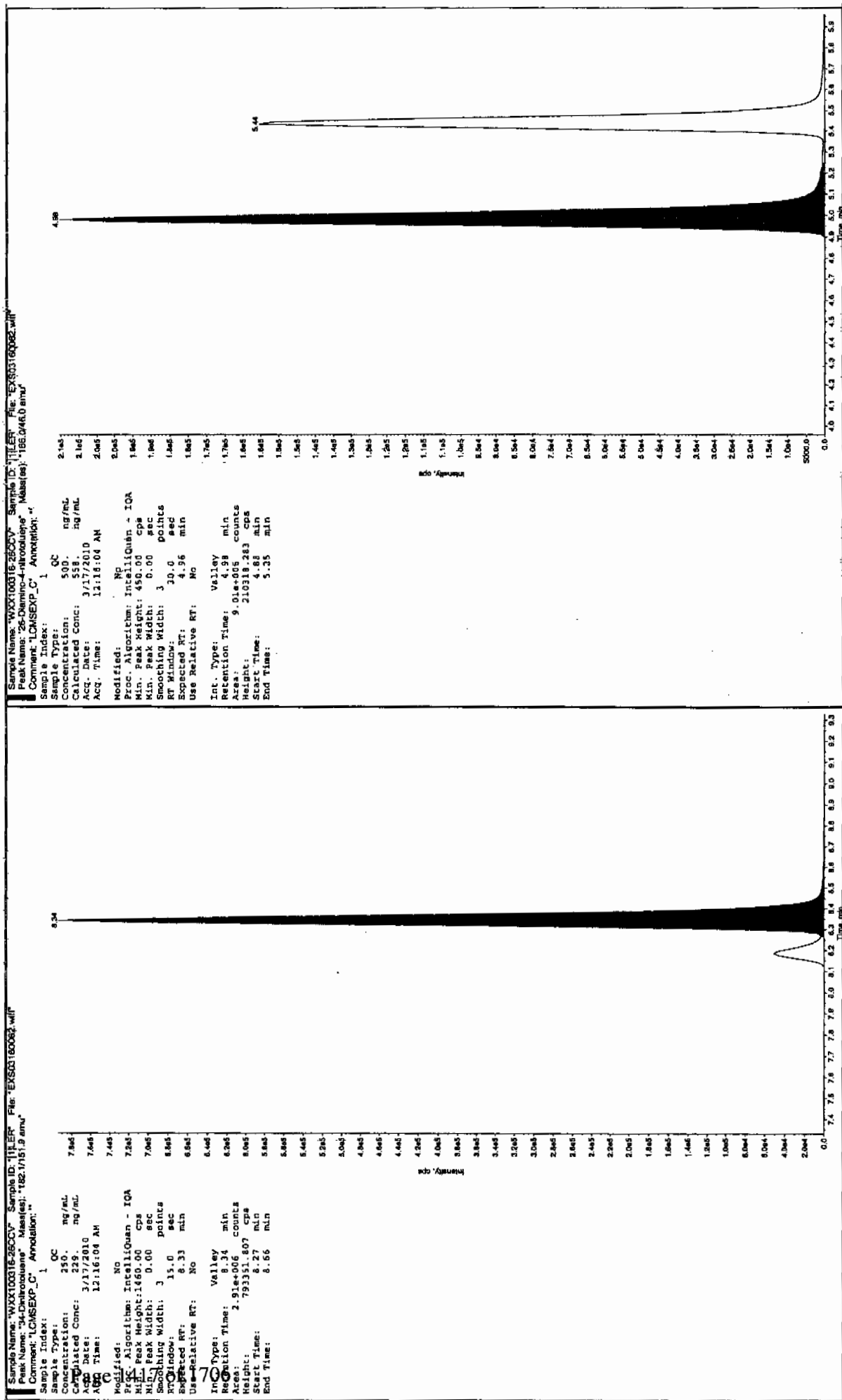
Sample Name: "WXX100316-260CV" Sample ID: "11LEF" File: "EX803160045.wif"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_C" Annotation: "

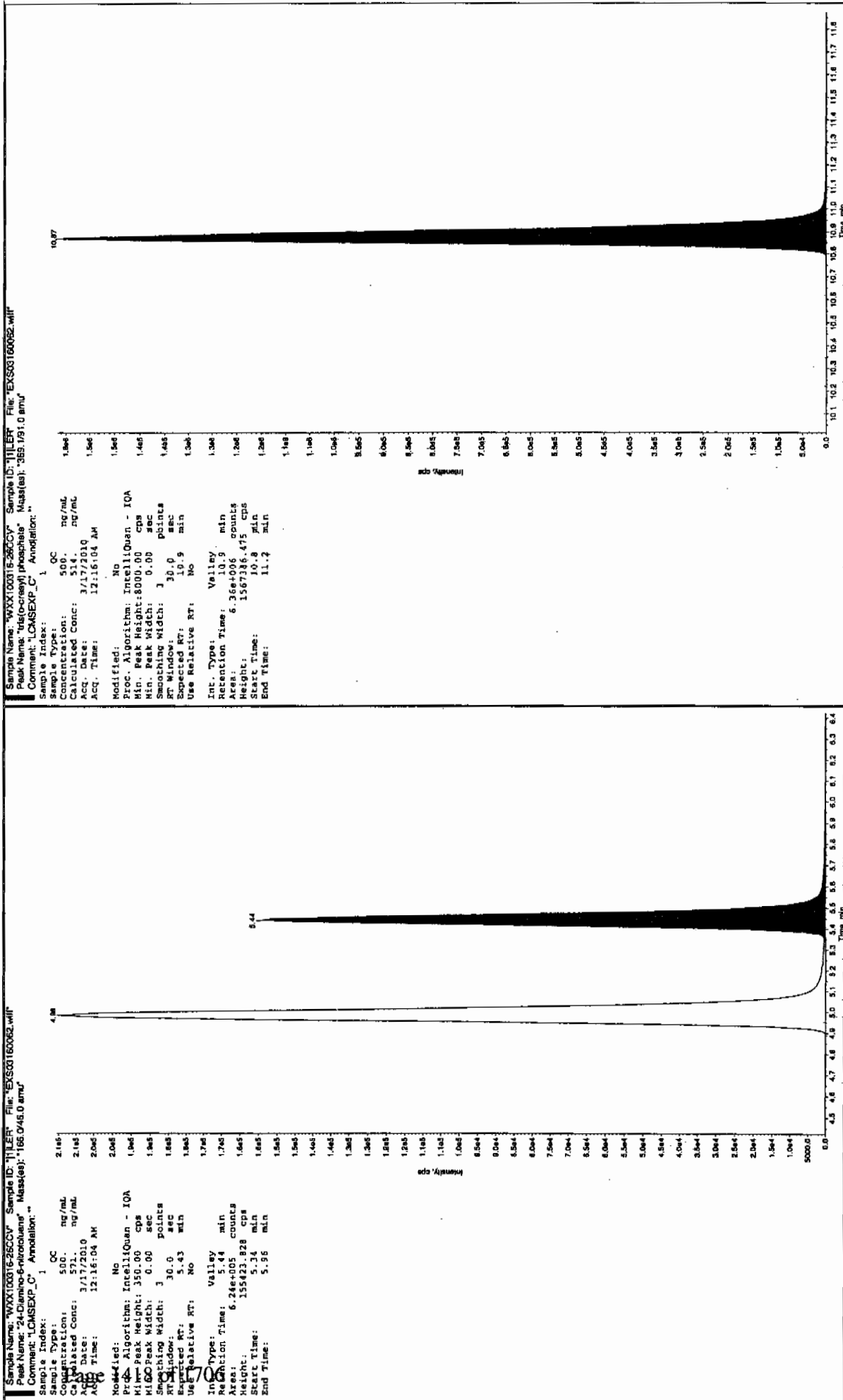
Sample Index: 1
 Sample Type: 500
 Calculated Conc: 491.0 ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 12:16:04 AM

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: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.20 min
 Peak Height: 4.34e+005 counts
 Start Time: 1093172.729 min
 End Time: 8.30 min



800 3/11/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160064.wiff

Analysis Date: 17-MAR-10 00:47

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	106	106	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	45.8	92	
3,5-Dinitroaniline	100	89.7	90	
TATB	100	104	104	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

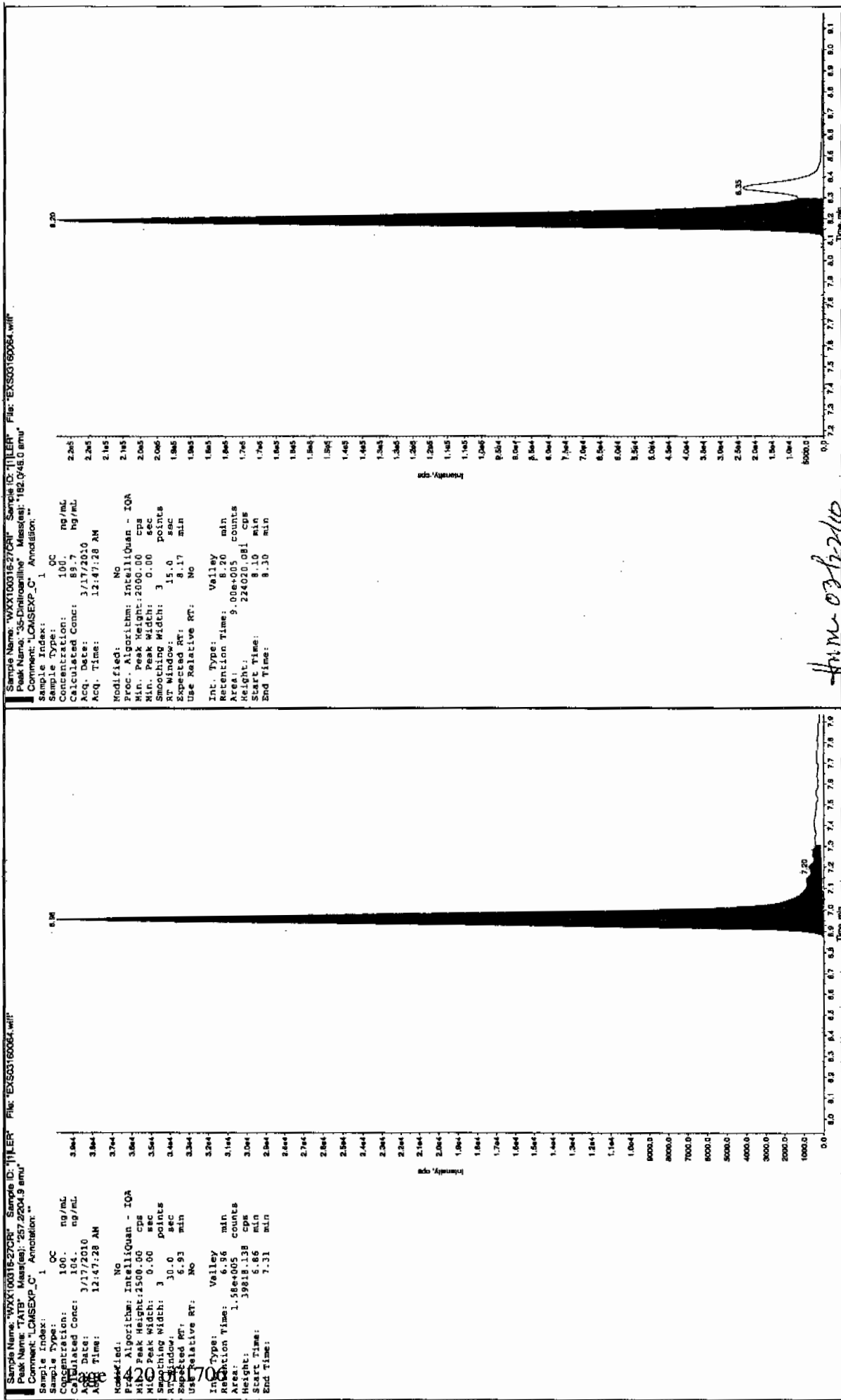
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

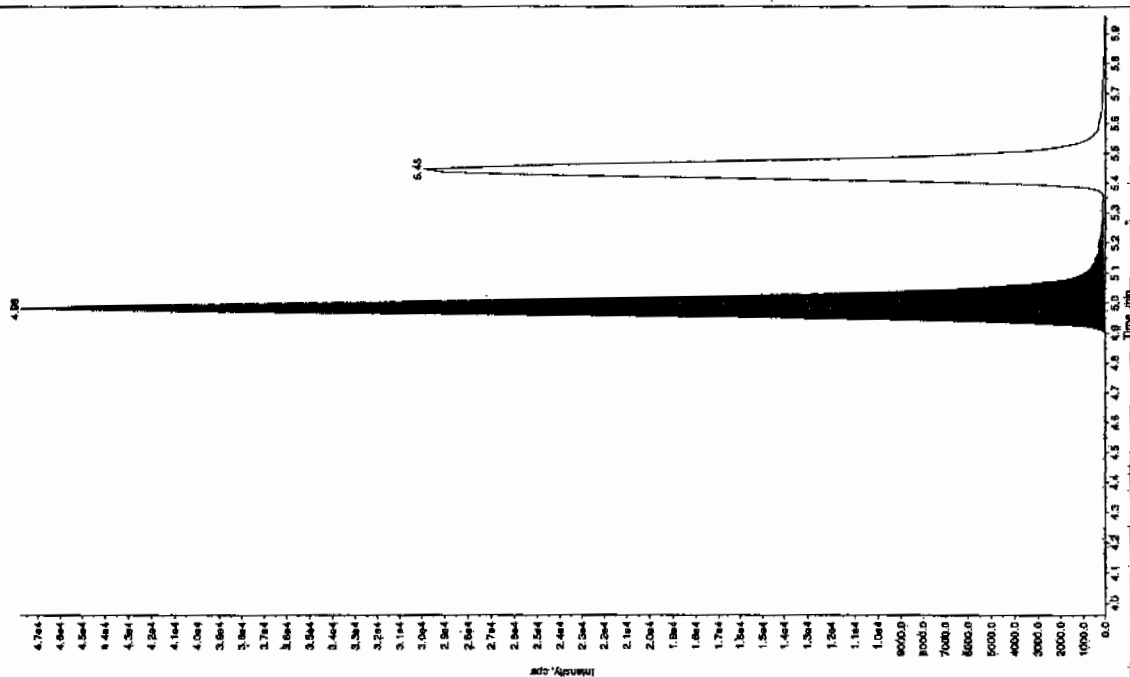
01/19/10
Jag



Am-03-12-10

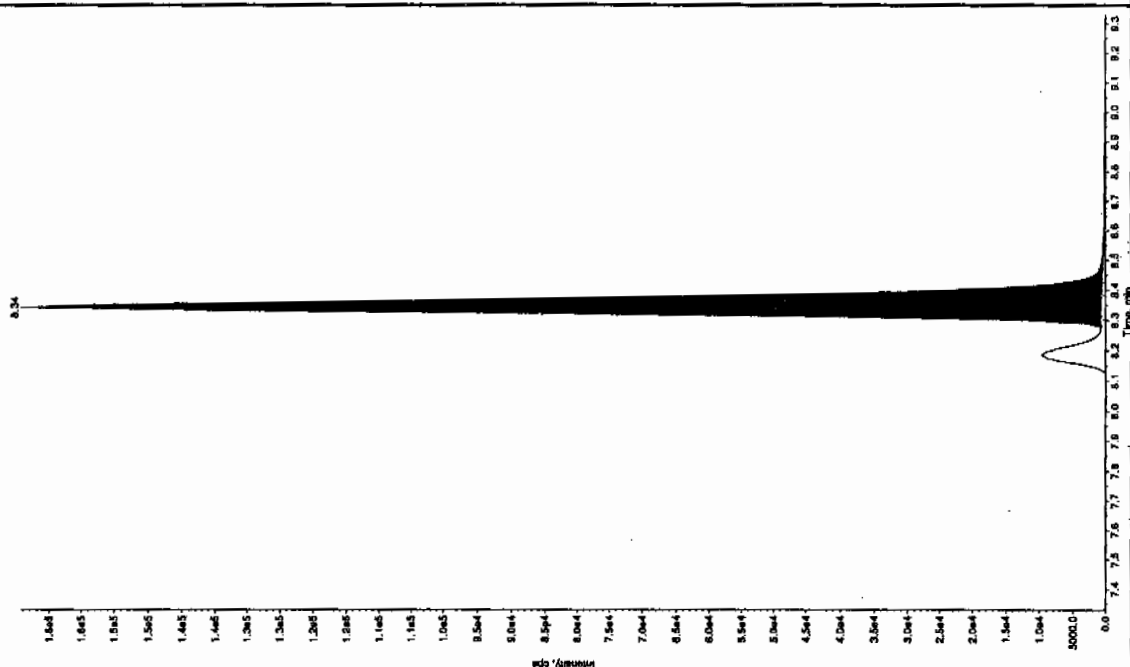
Sample Name: "WXX100316-270R" Sample ID: "11LER" File: "EXS03160064.wif"
 Peak Name: "25-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_C" Annotation: "1"

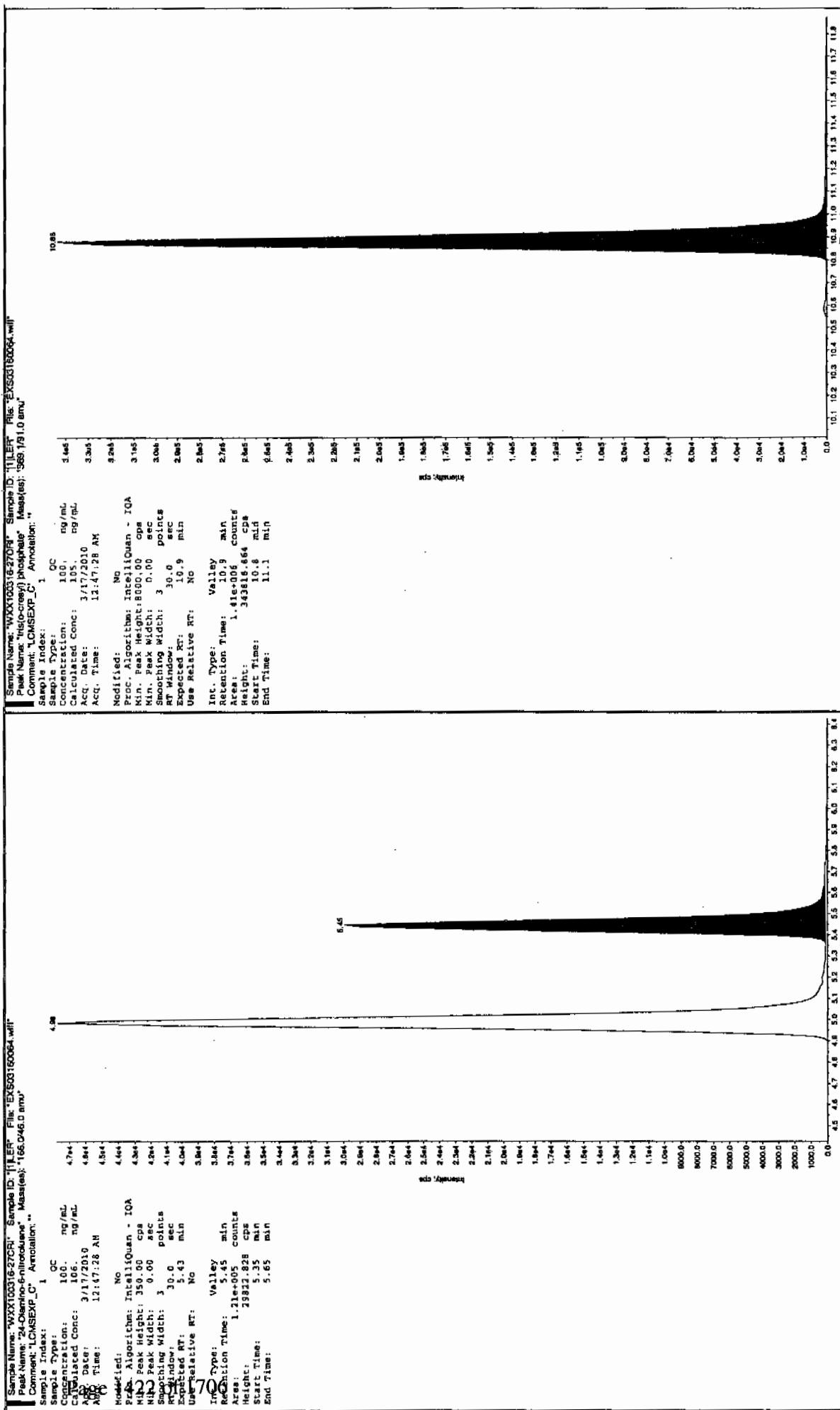
Sample Index: 1
 Sample Type: 100.0 ng/mL
 Concentration: 112.0 ng/mL
 Calculated Conc: 3/17/2010
 Acq. Date: 12-17-2010
 Acq. Time: 12:47:28 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.96 min
 Area: 1.91e+005 counts
 Height: 47756.405 cps
 Start Time: 4.89 min
 End Time: 5.29 min



Sample Name: "WXX100316-270R" Sample ID: "11LER" File: "EXS03160064.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"
 Comment: "LCMS-EXP_C" Annotation: "1"

Sample Index: 1
 Sample Type: 50.0 ng/mL
 Concentration: 50.0 ng/mL
 Calculated Conc: 3/17/2010
 Acq. Date: 12-17-2010
 Acq. Time: 12:47:28 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: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 5.87e+005 counts
 Height: 163881.359 cps
 Start Time: 8.27 min
 End Time: 8.58 min





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160075.wiff

Analysis Date: 17-MAR-10 03:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	579	116	
2,6-Diamino-4-nitrotoluene	500	549	110	
3,4-Dinitrotoluene	250	221	89	
3,5-Dinitroaniline	500	487	97	
TATB	500	544	109	
tris(o-cresyl) phosphate	500	515	103	

Recovery Limits:

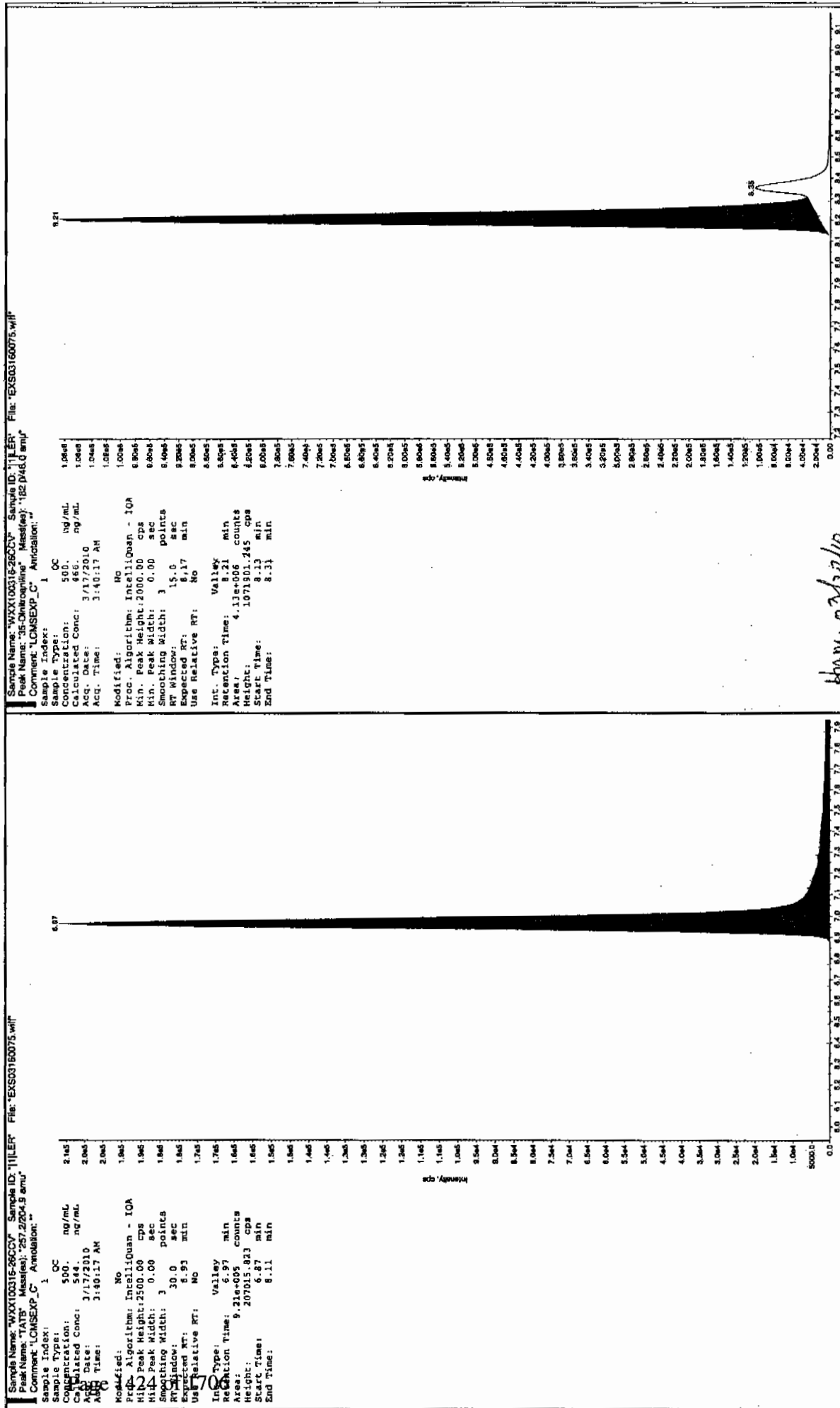
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

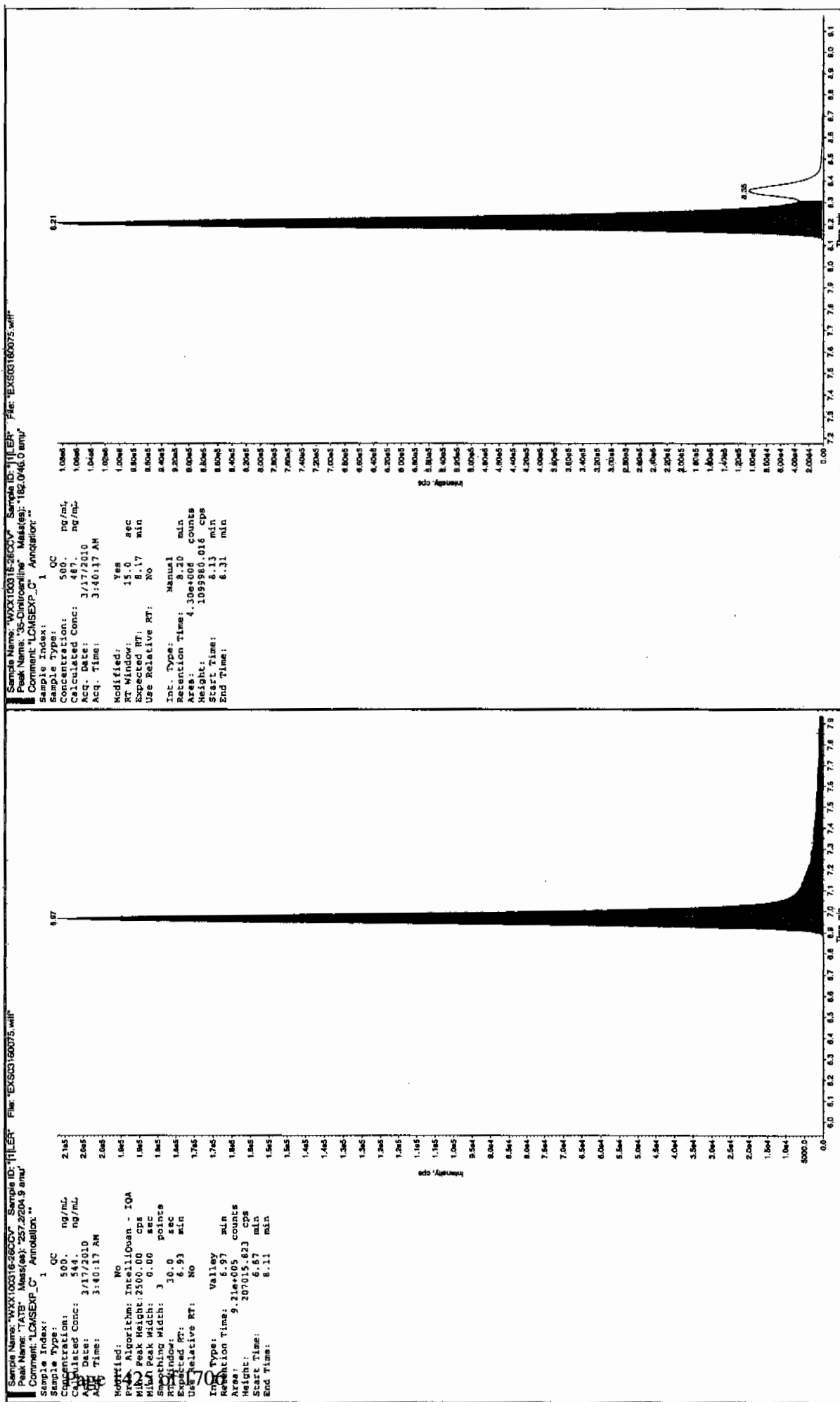
* Value outside of Recovery Limits

Before Jan 31/87/10

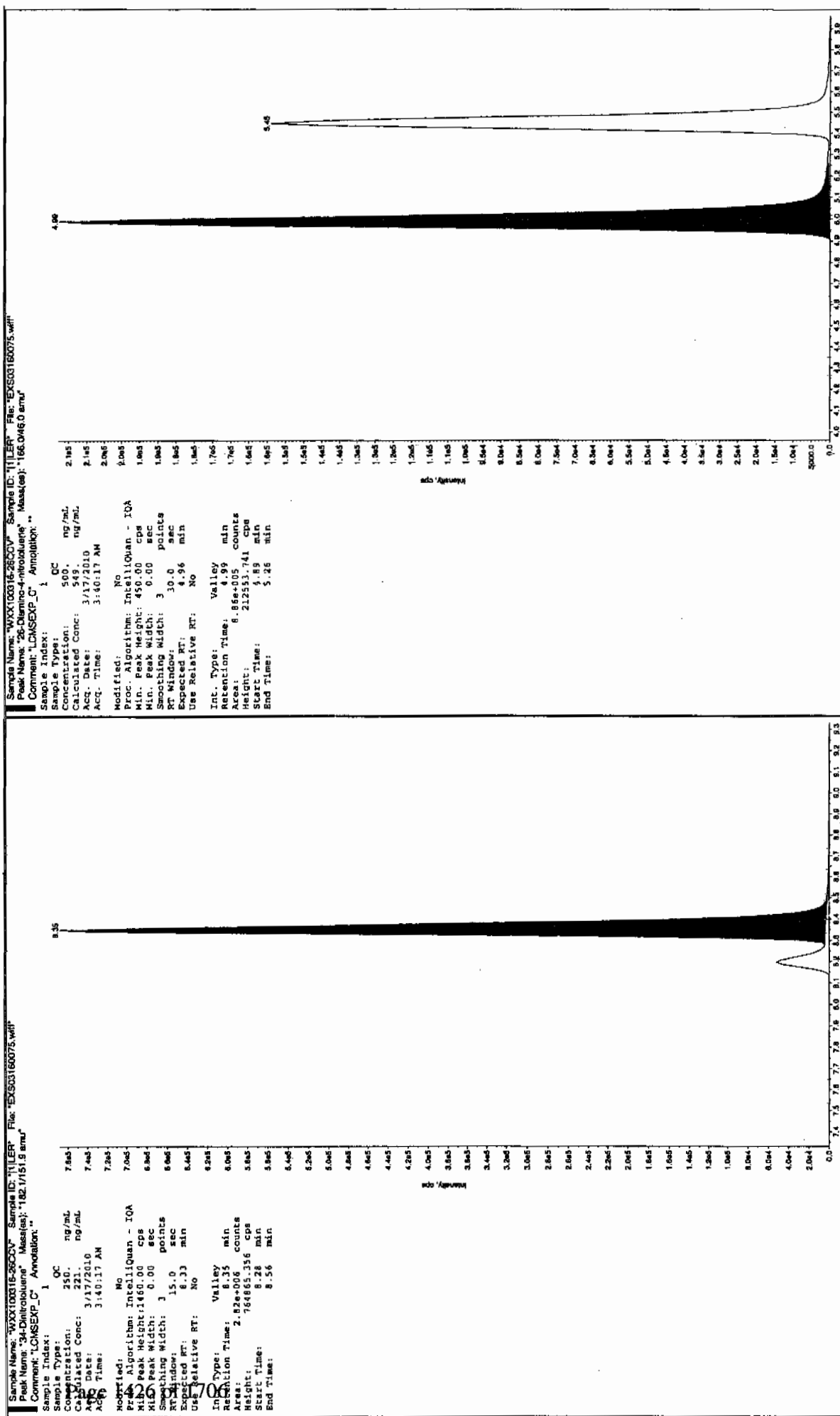


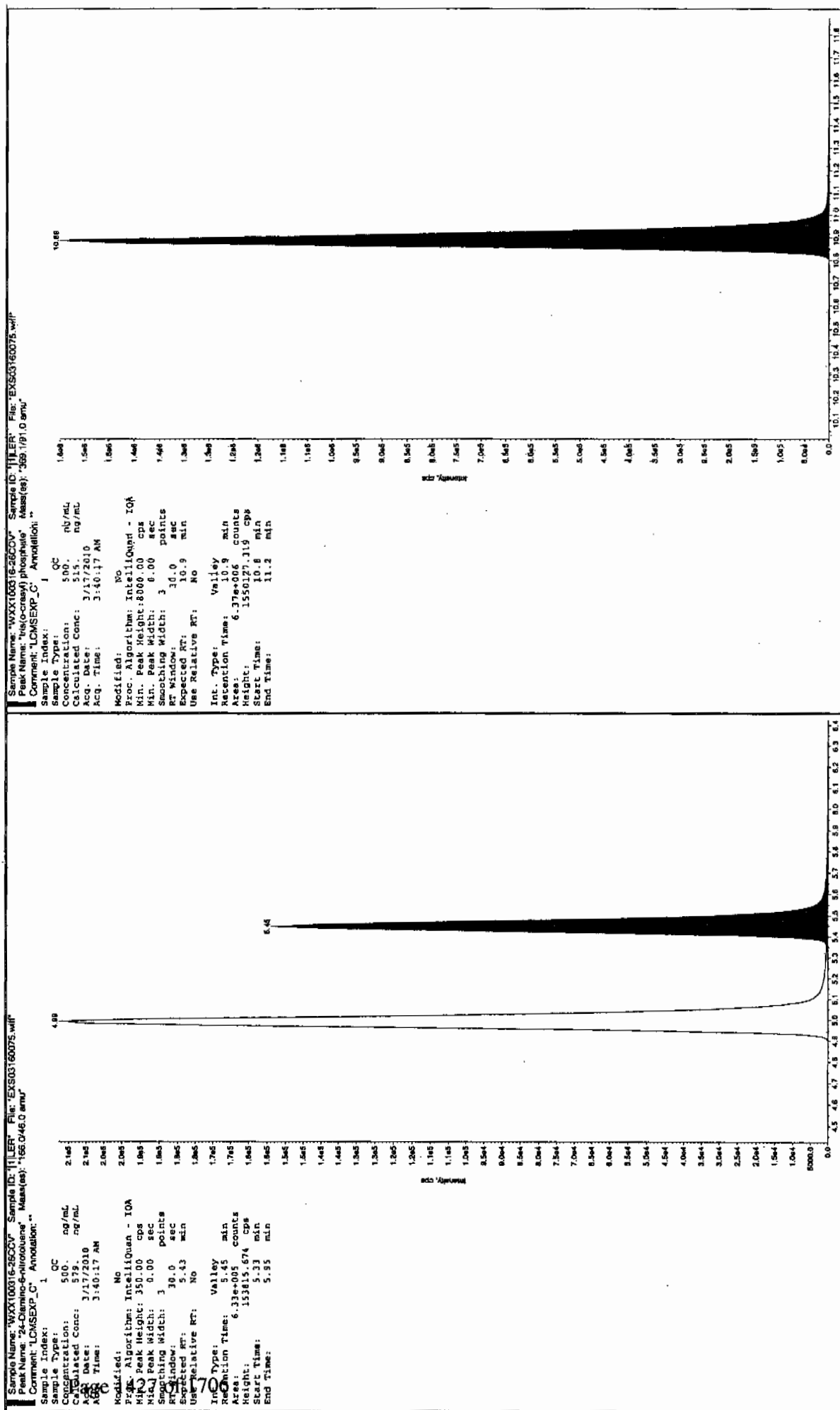
HW 03/22/10

after scan 3/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160077.wiff

Analysis Date: 17-MAR-10 04:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	113	113	
2,6-Diamino-4-nitrotoluene	100	115	115	
3,4-Dinitrotoluene	50	46.8	94	
3,5-Dinitroaniline	100	94.8	95	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	105	105	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

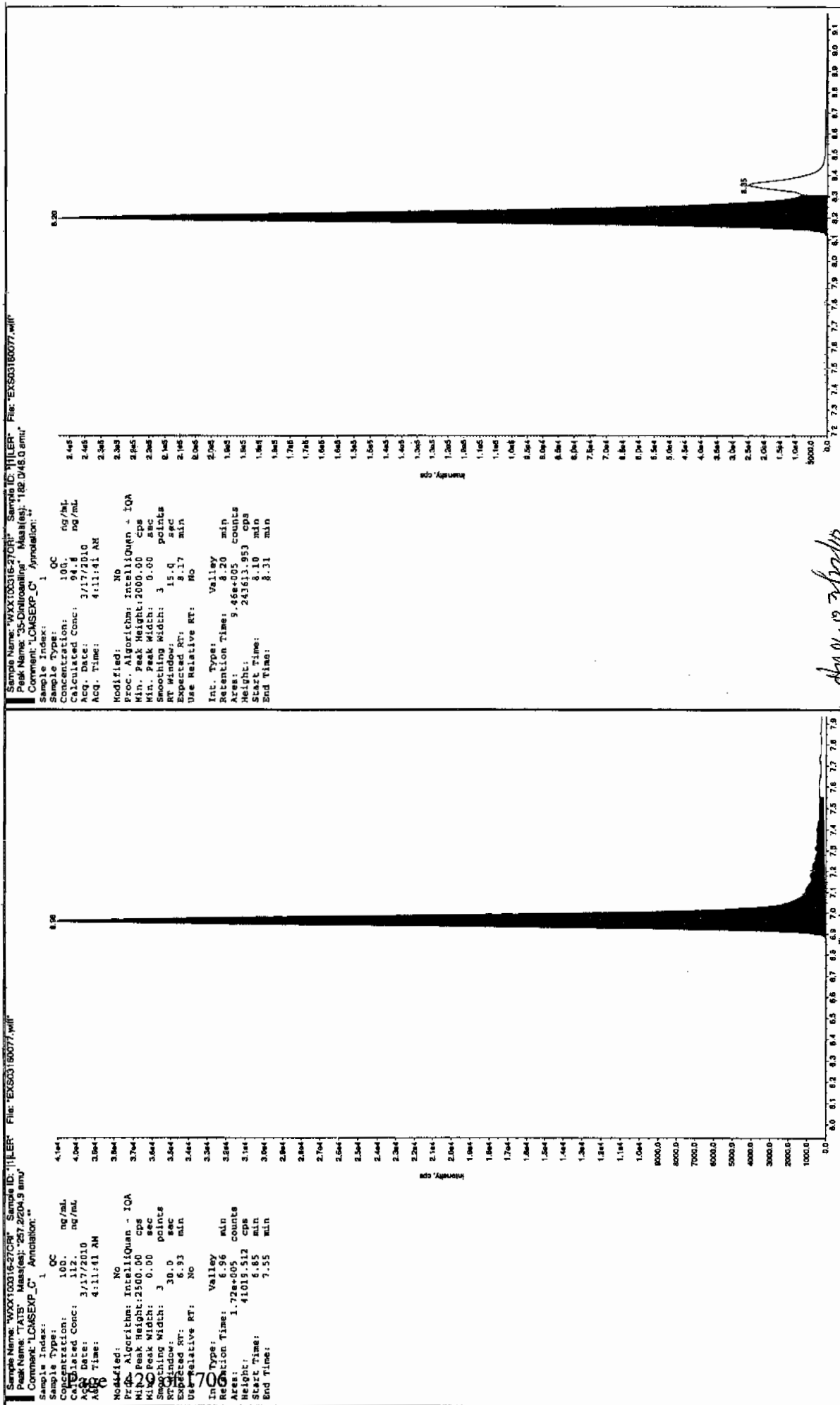
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

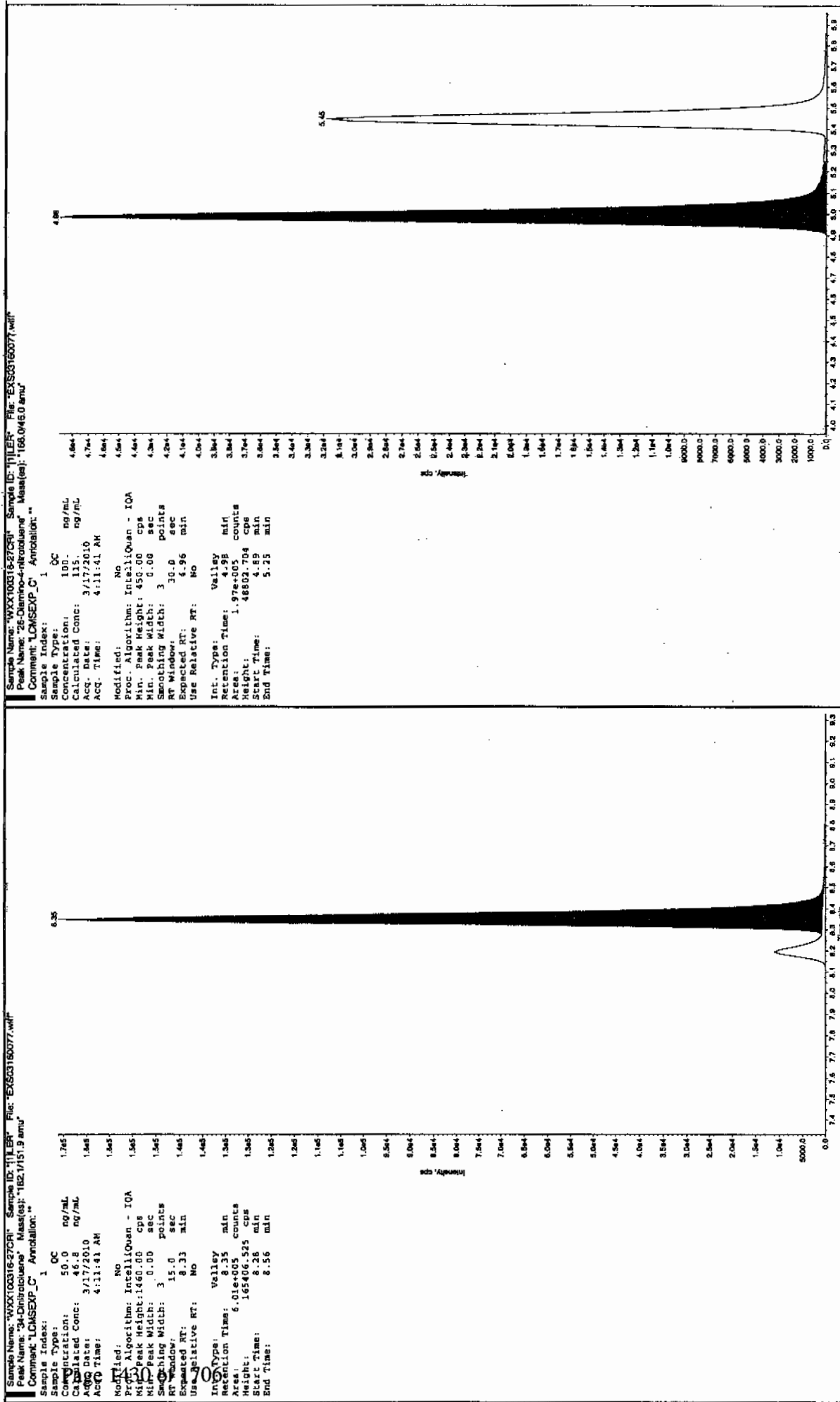
Column used to flag Recovery outside of Limits

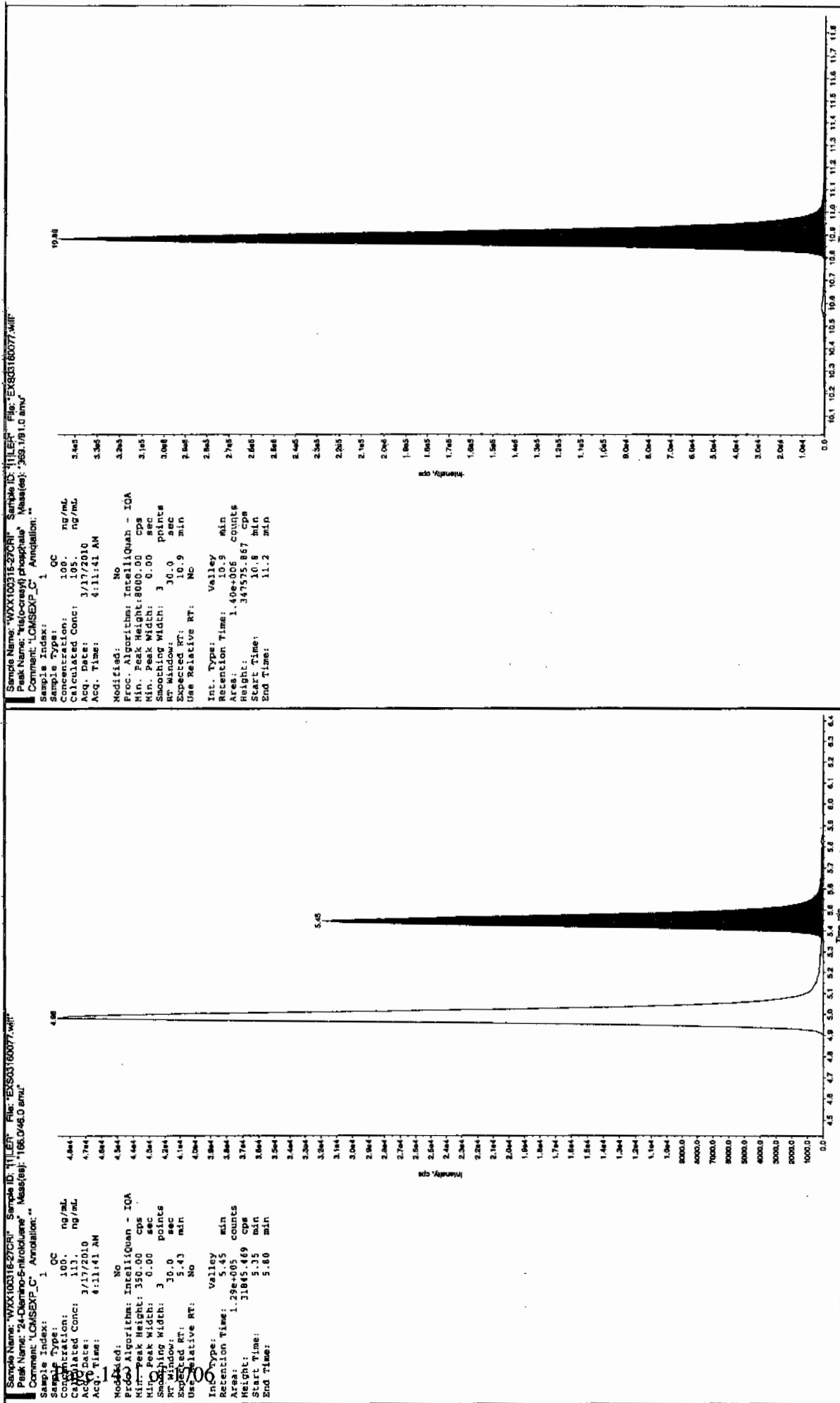
* Value outside of Recovery Limits

Jan 21/9/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160088.wiff

Analysis Date: 17-MAR-10 07:04

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	528	106	
2,6-Diamino-4-nitrotoluene	500	571	114	
3,4-Dinitrotoluene	250	222	89	
3,5-Dinitroaniline	500	499	100	
TATB	500	540	108	
tris(o-cresyl) phosphate	500	544	109	

Recovery Limits:

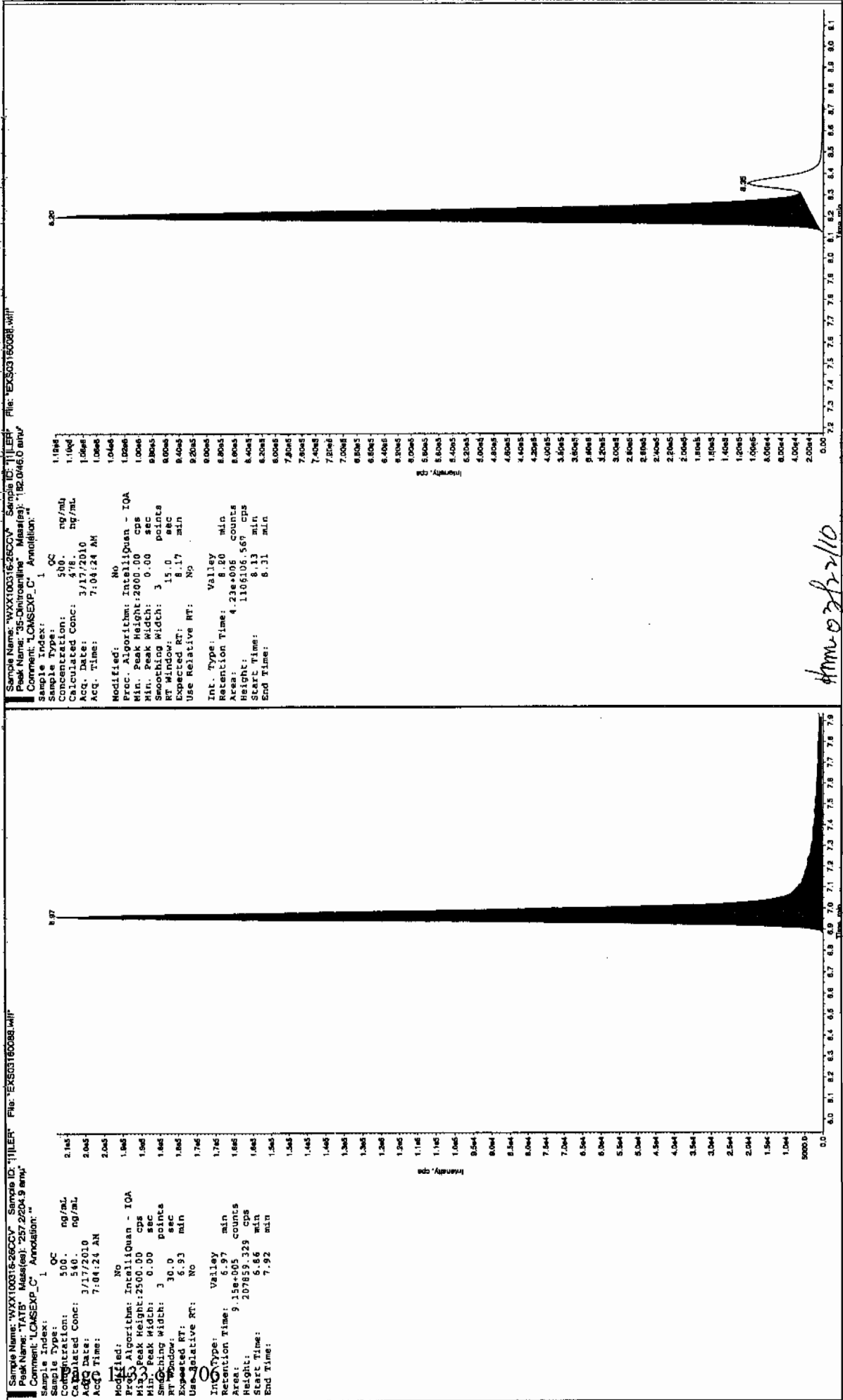
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

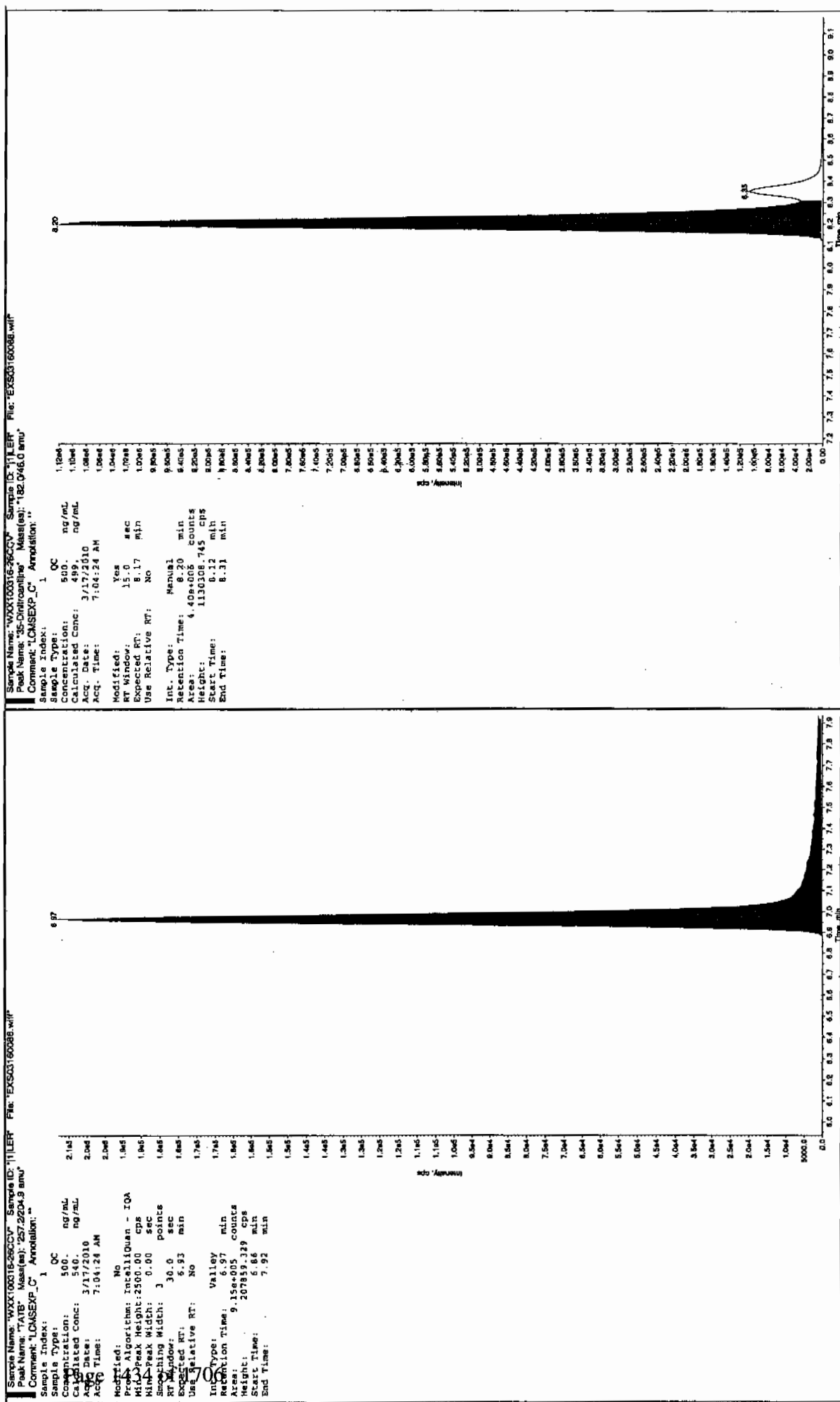
Column used to flag Recovery outside of Limits

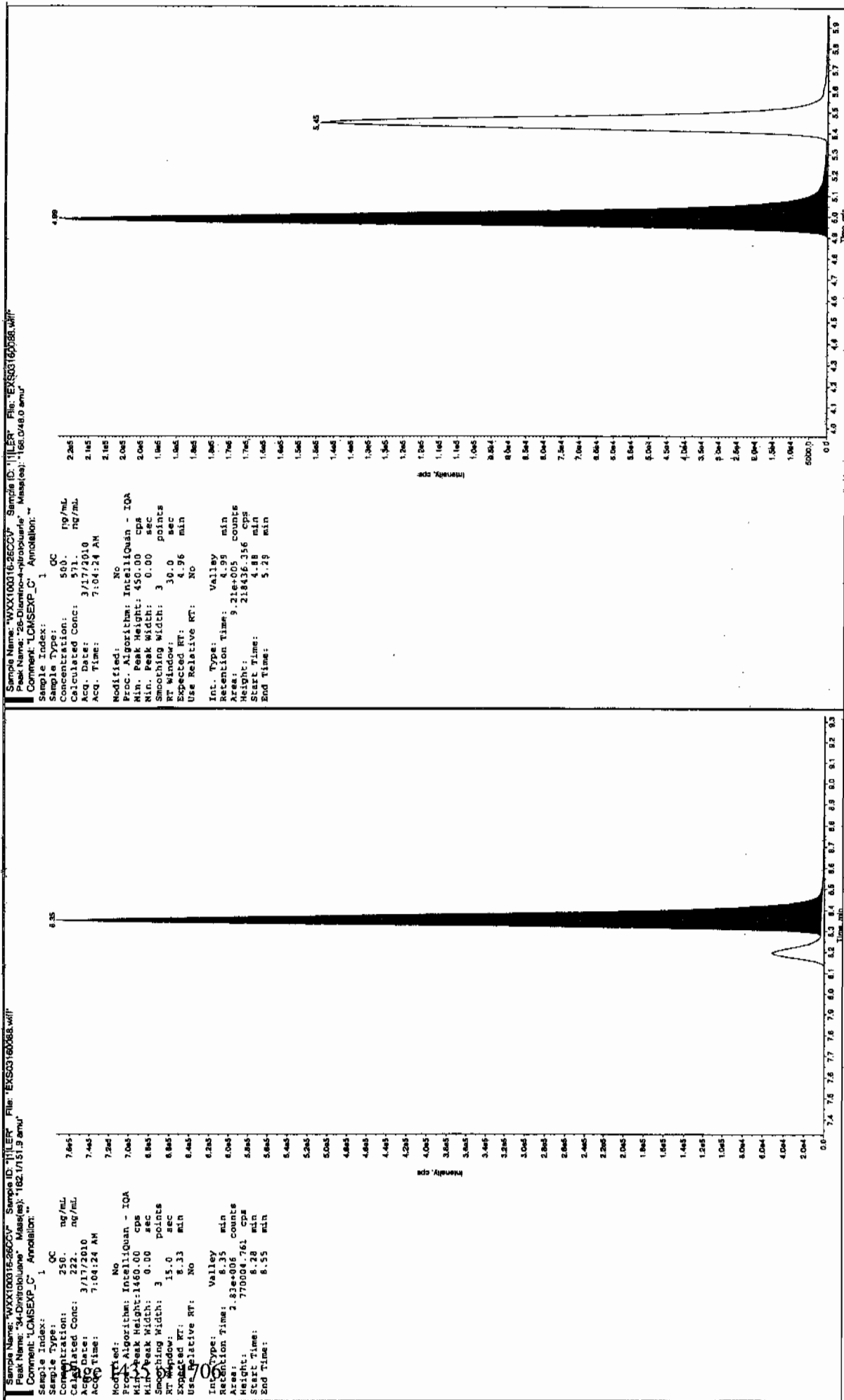
* Value outside of Recovery Limits

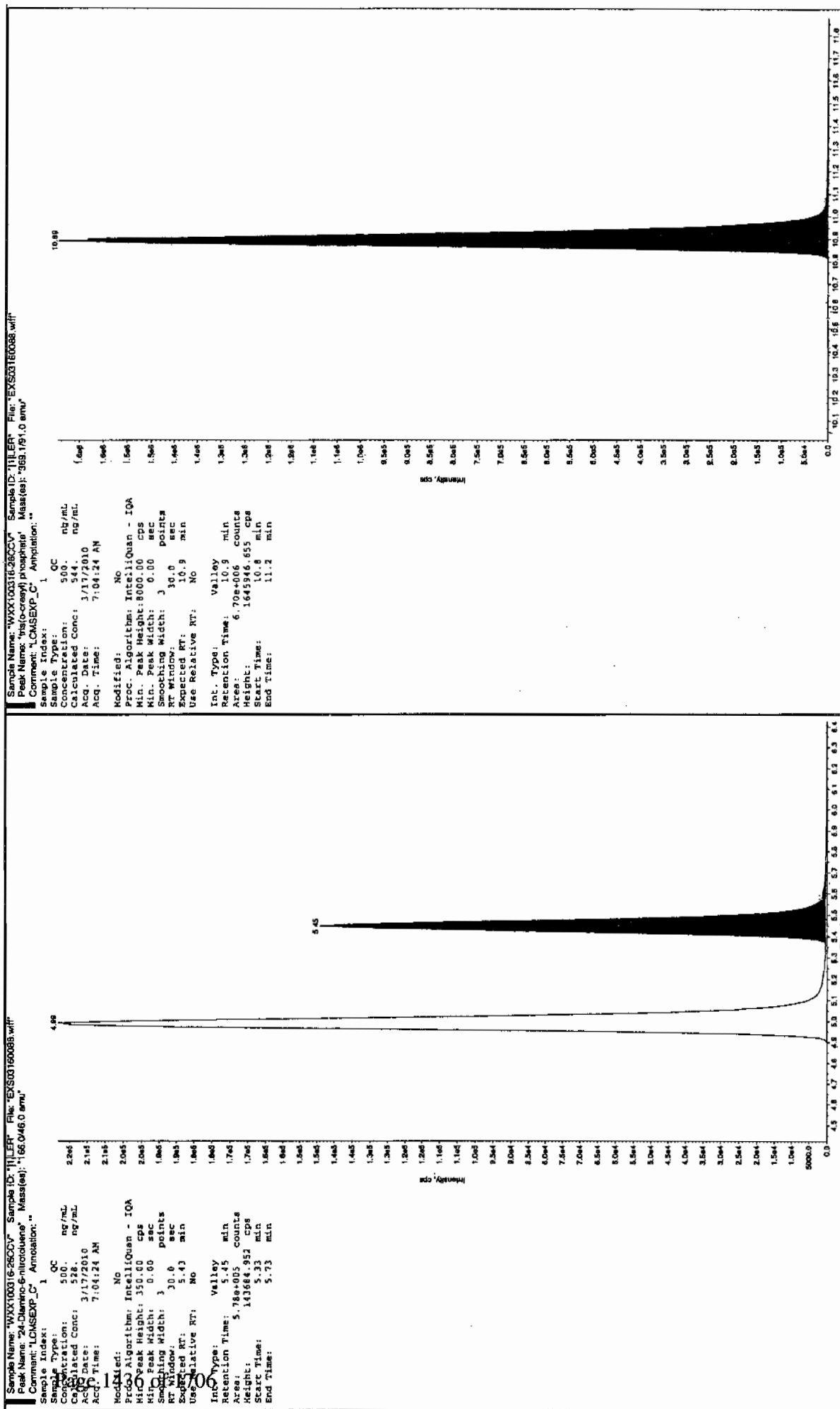
Before Jan 31/8/10



after Jan 31/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160090.wiff

Analysis Date: 17-MAR-10 07:35

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	112	112	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	46.1	92	
3,5-Dinitroaniline	100	90.4	90	
TATB	100	111	111	
tris(o-cresyl) phosphate	100	108	108	

Recovery Limits:

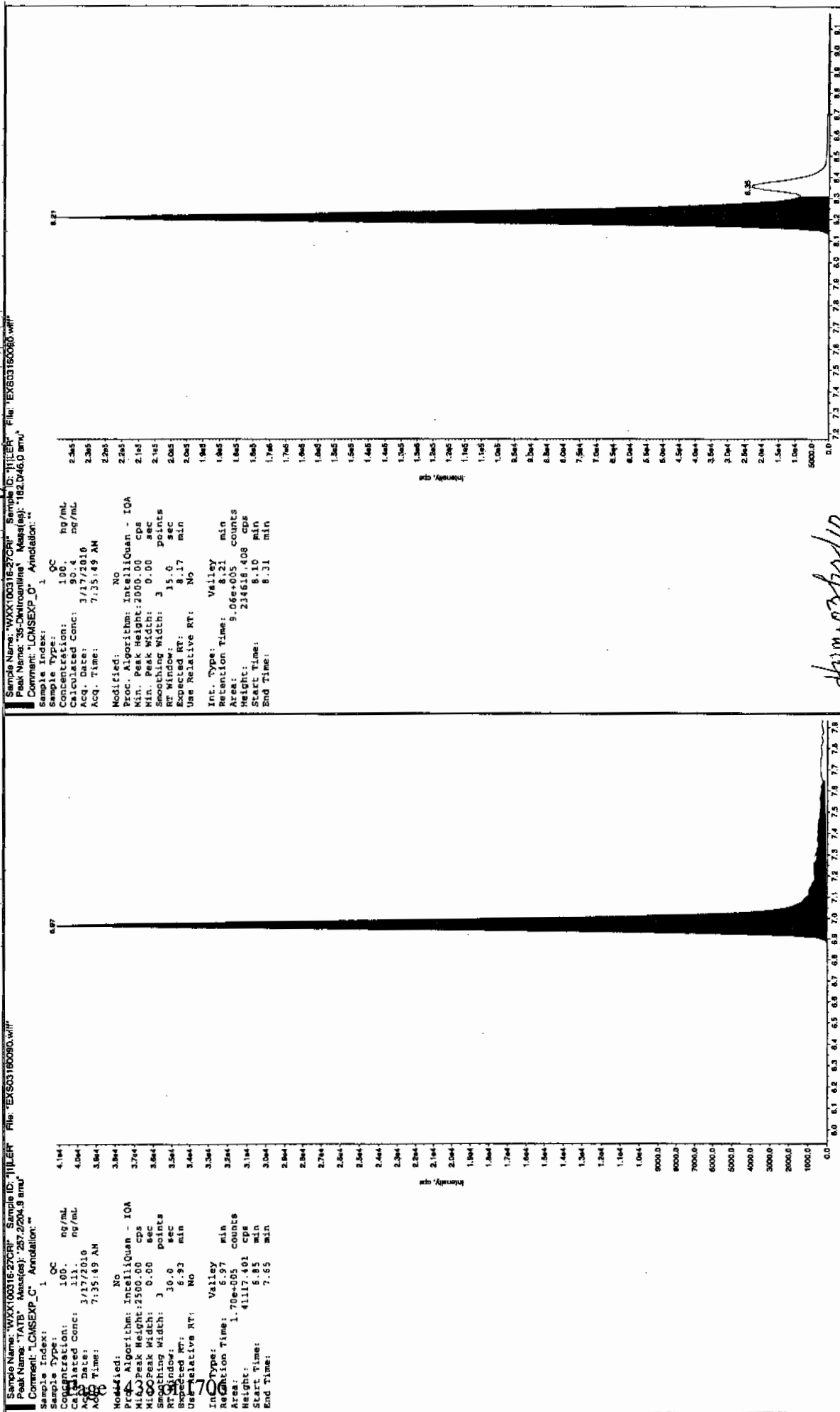
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

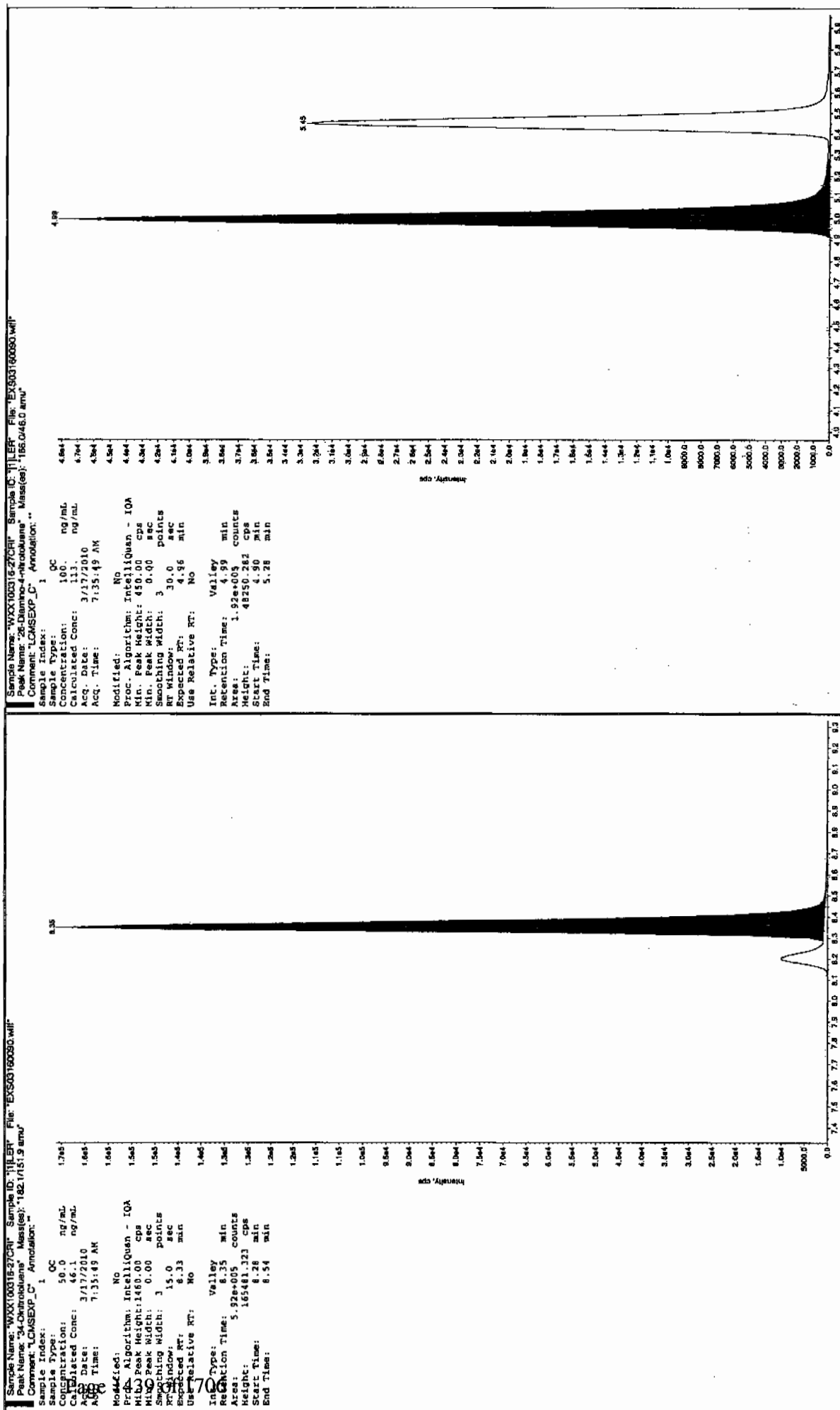
Column used to flag Recovery outside of Limits

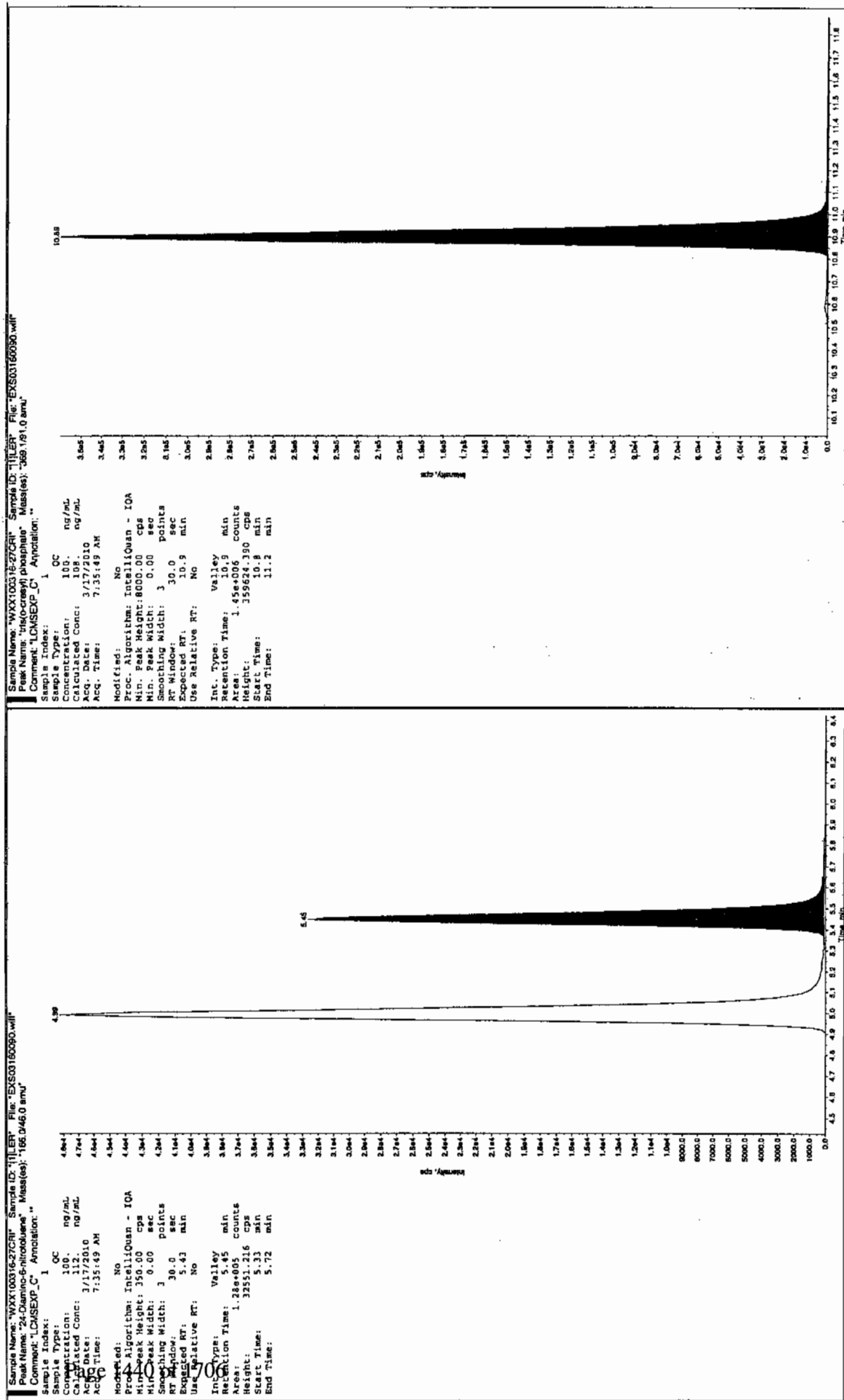
* Value outside of Recovery Limits

2/19/10



dim-03/20/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160101.wiff

Analysis Date: 17-MAR-10 10:28

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	485	97	
2,6-Diamino-4-nitrotoluene	500	530	106	
3,4-Dinitrotoluene	250	230	92	
3,5-Dinitroaniline	500	501	100	
TATB	500	535	107	
tris(o-cresyl) phosphate	500	560	112	

Recovery Limits:

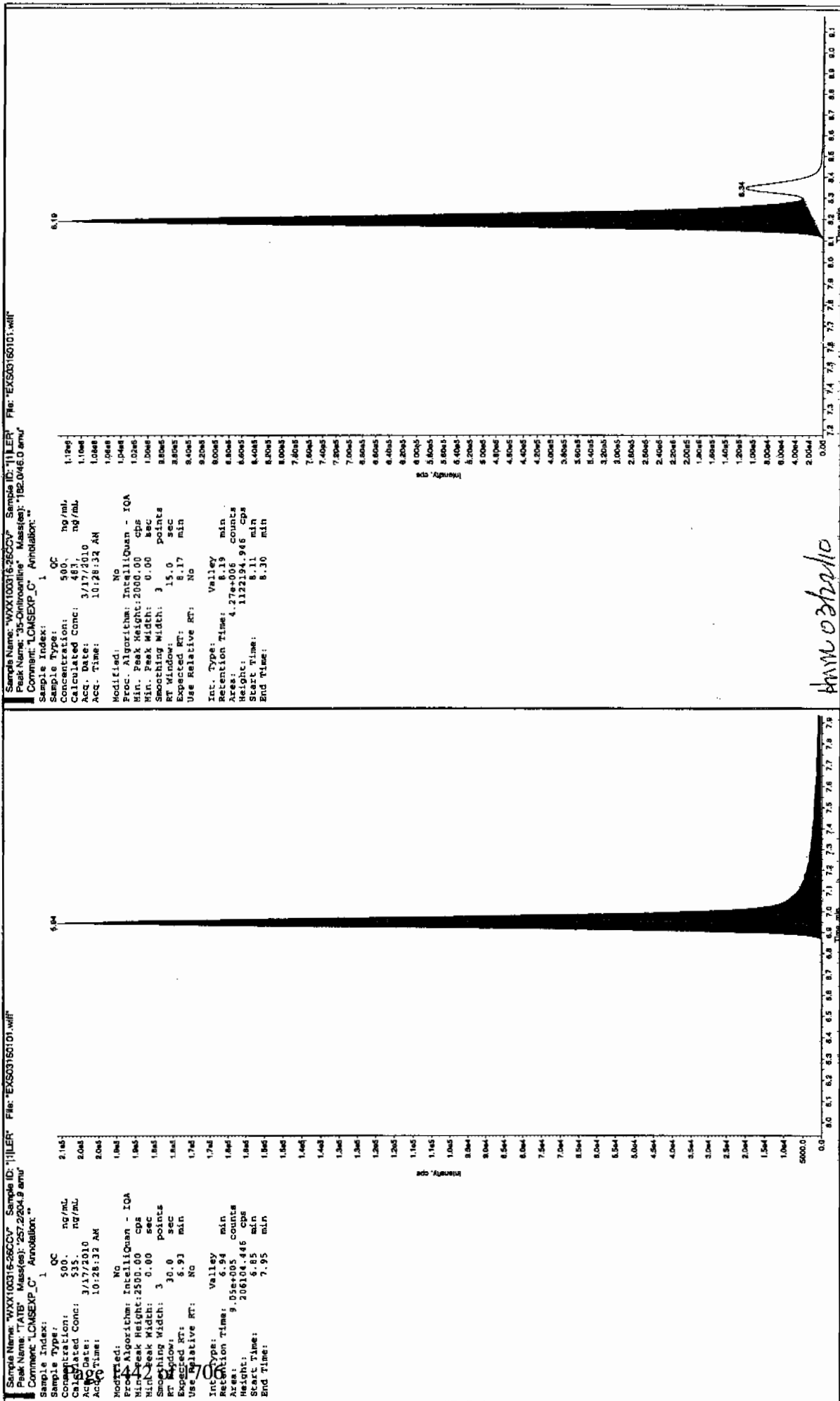
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

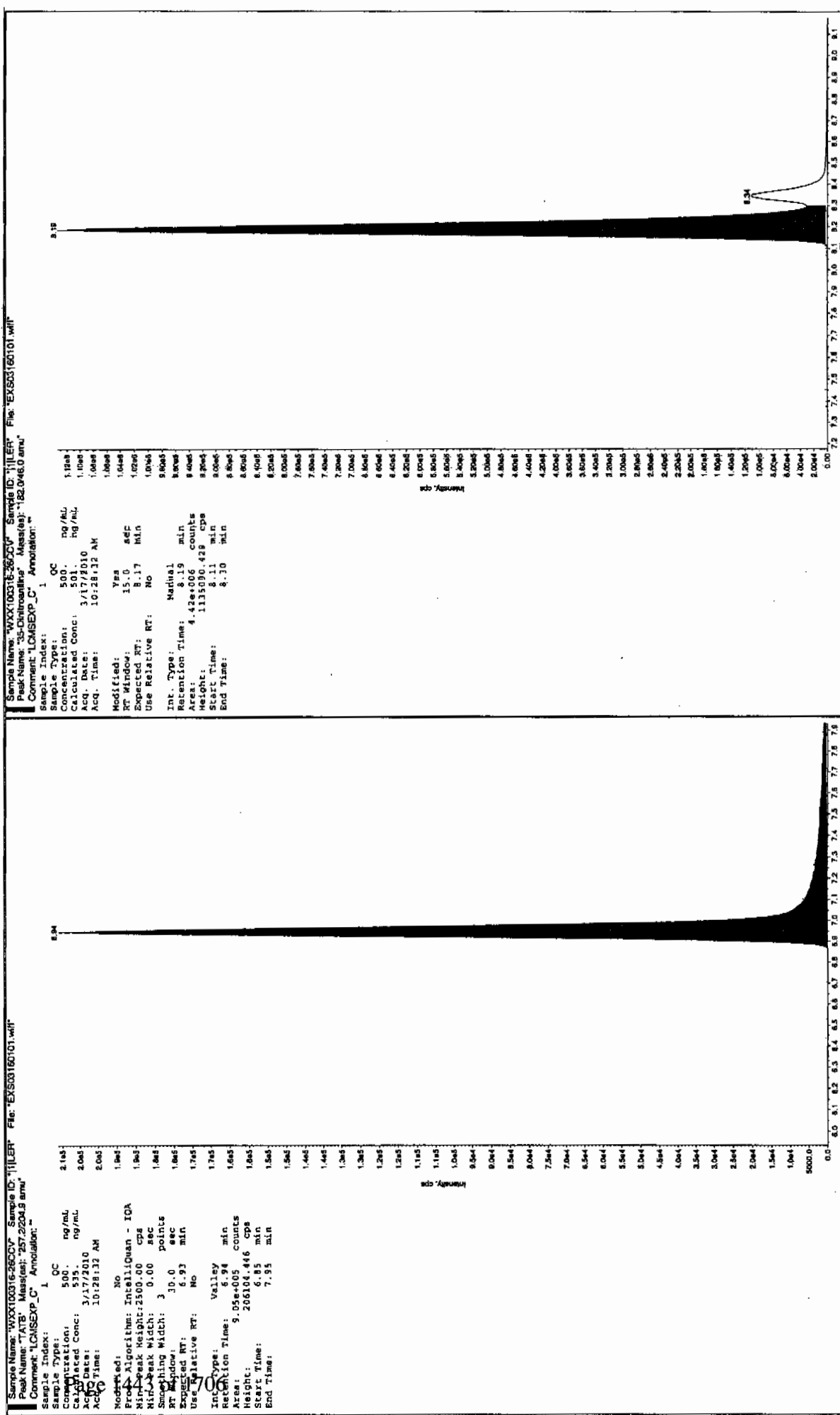
* Value outside of Recovery Limits

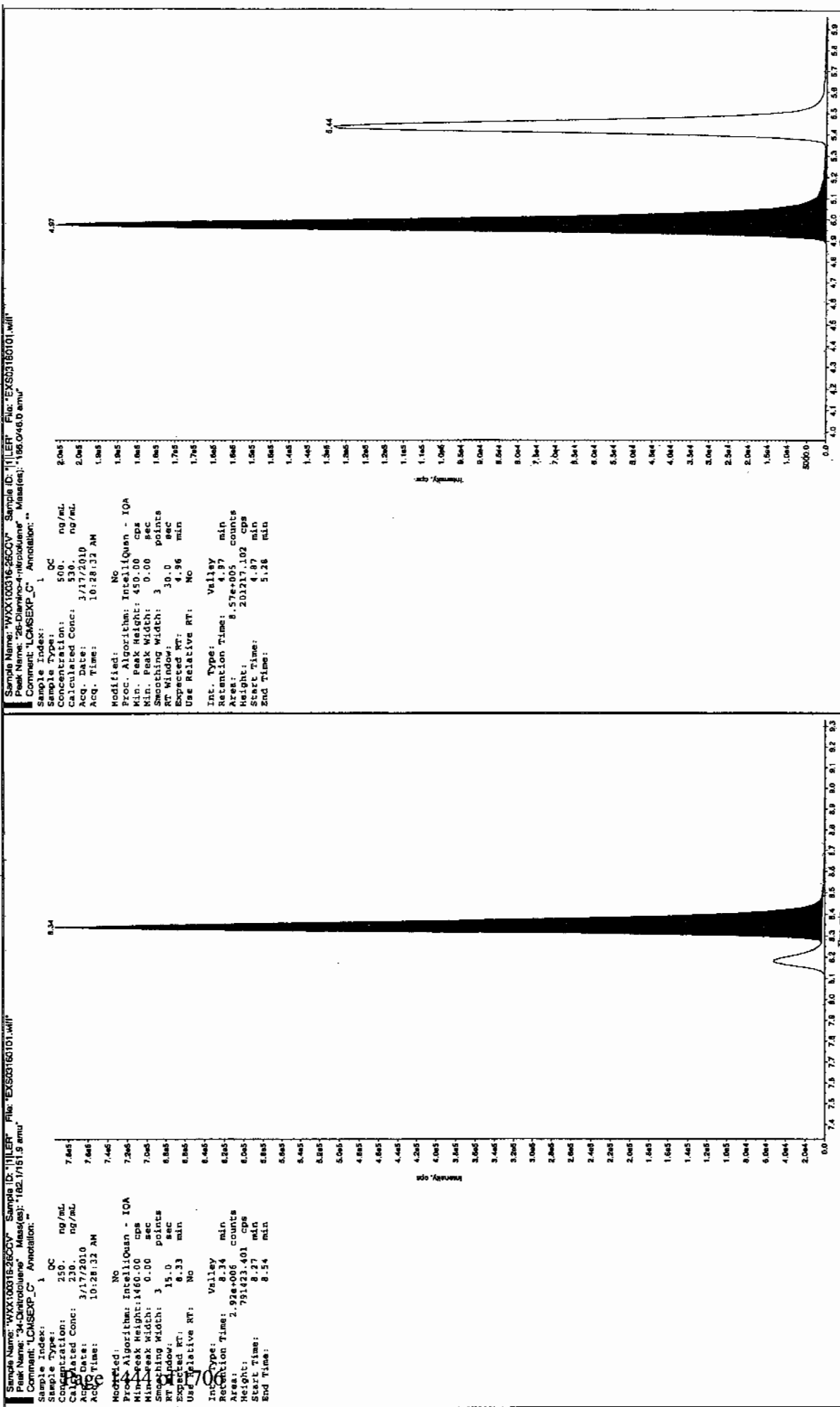
Before Jan 31/8/10

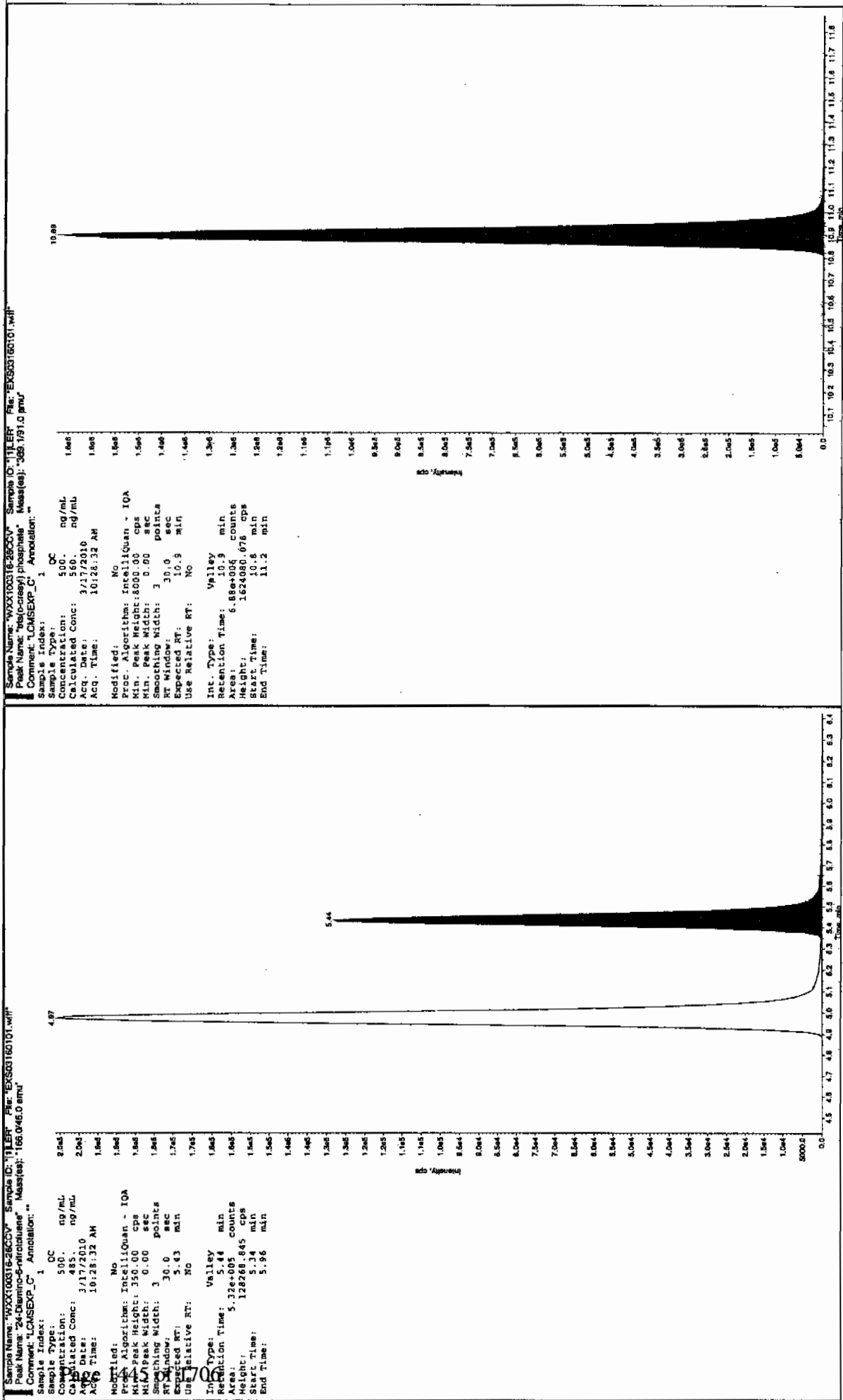


After 03/08/10

after Jan 31/9/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160103.wiff

Analysis Date: 17-MAR-10 10:59

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	47.8	96	
3,5-Dinitroaniline	100	92	92	
TATB	100	106	106	
tris(o-cresyl) phosphate	100	113	113	
2,4-Diamino-6-nitrotoluene	100	94.3	94	

Recovery Limits:

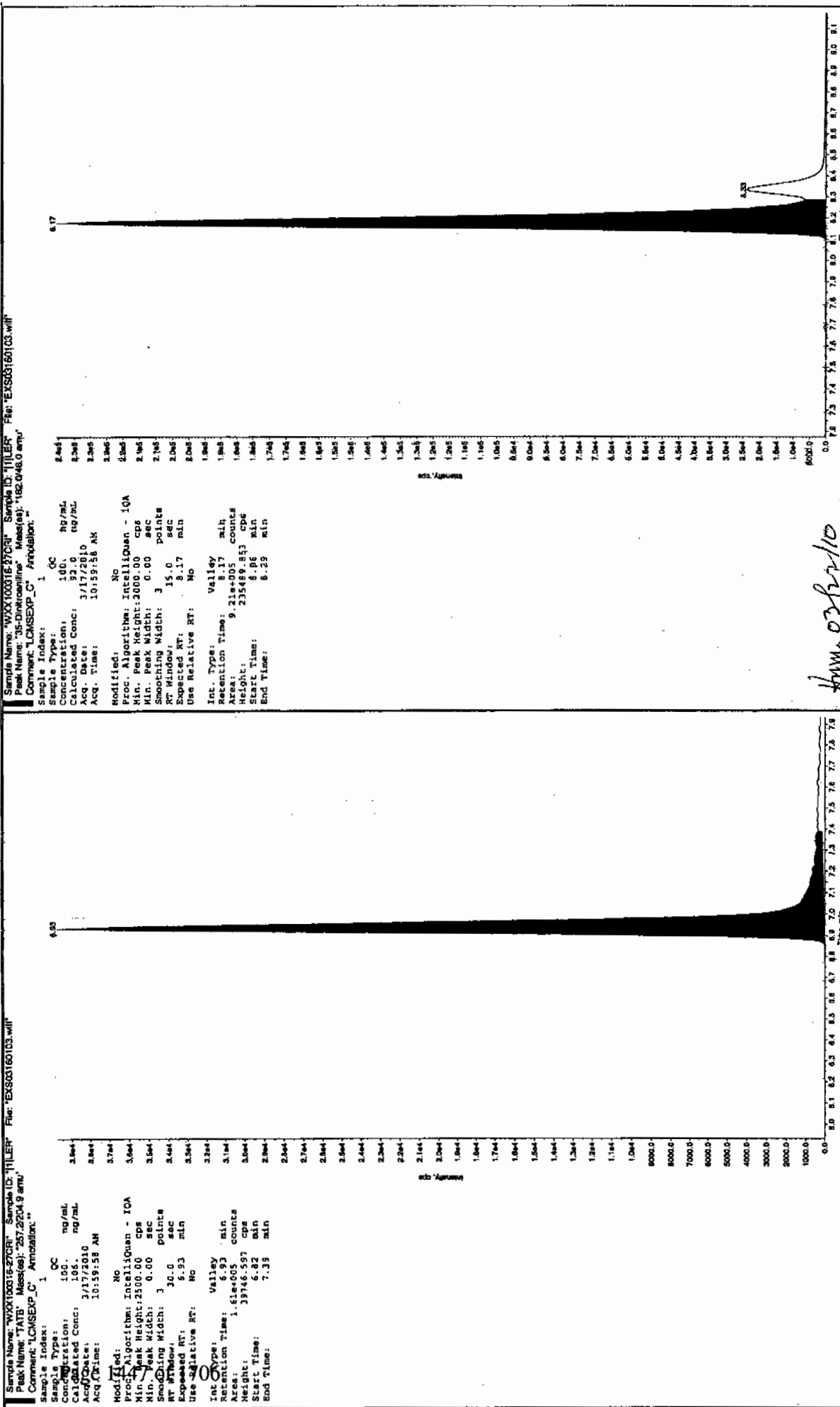
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

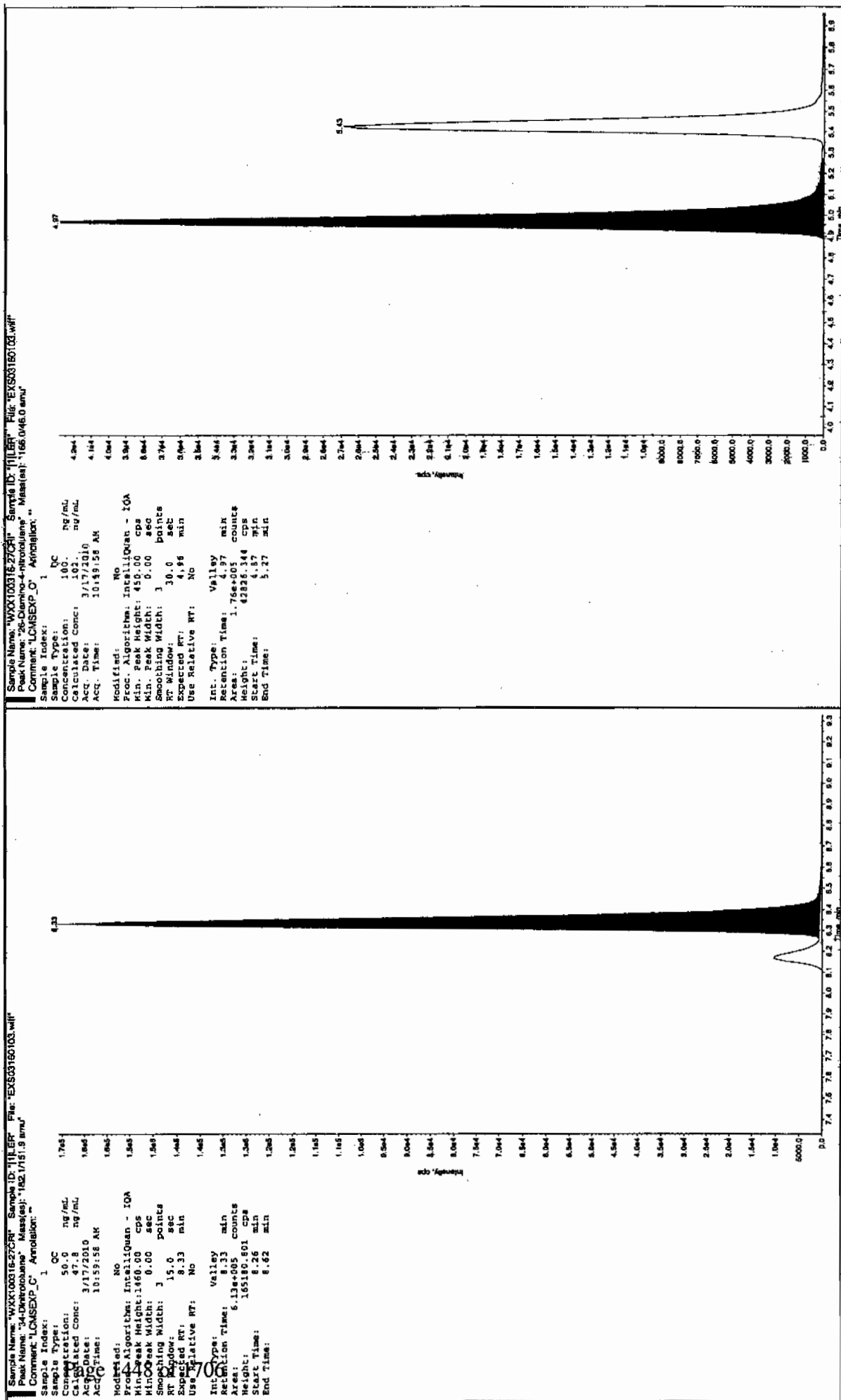
Column used to flag Recovery outside of Limits

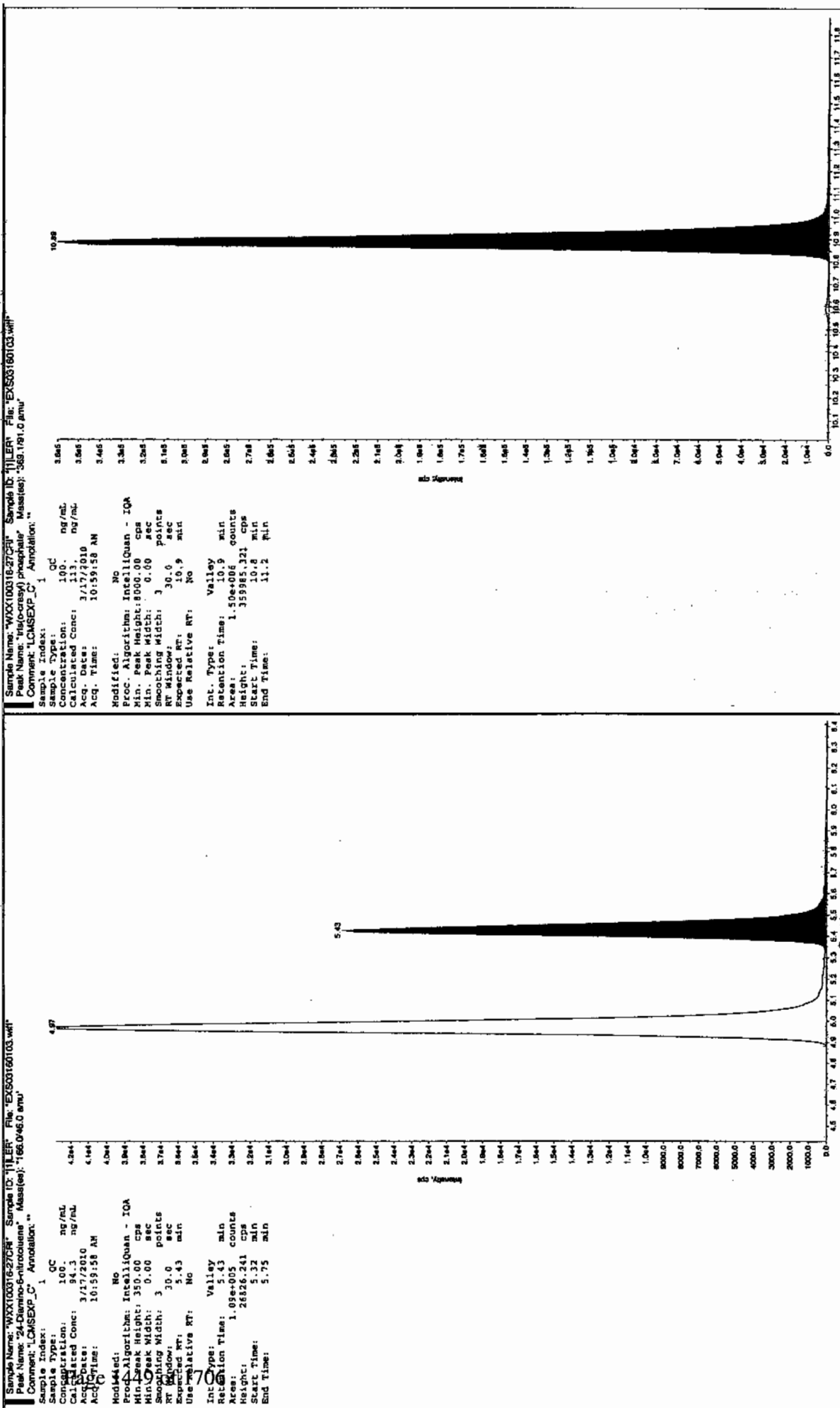
* Value outside of Recovery Limits

See 3/19/10



See 03/19/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160108.wiff

Analysis Date: 17-MAR-10 12:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	492	98	
2,6-Diamino-4-nitrotoluene	500	544	109	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	494	99	
TATB	500	535	107	
tris(o-cresyl) phosphate	500	564	113	

Recovery Limits:

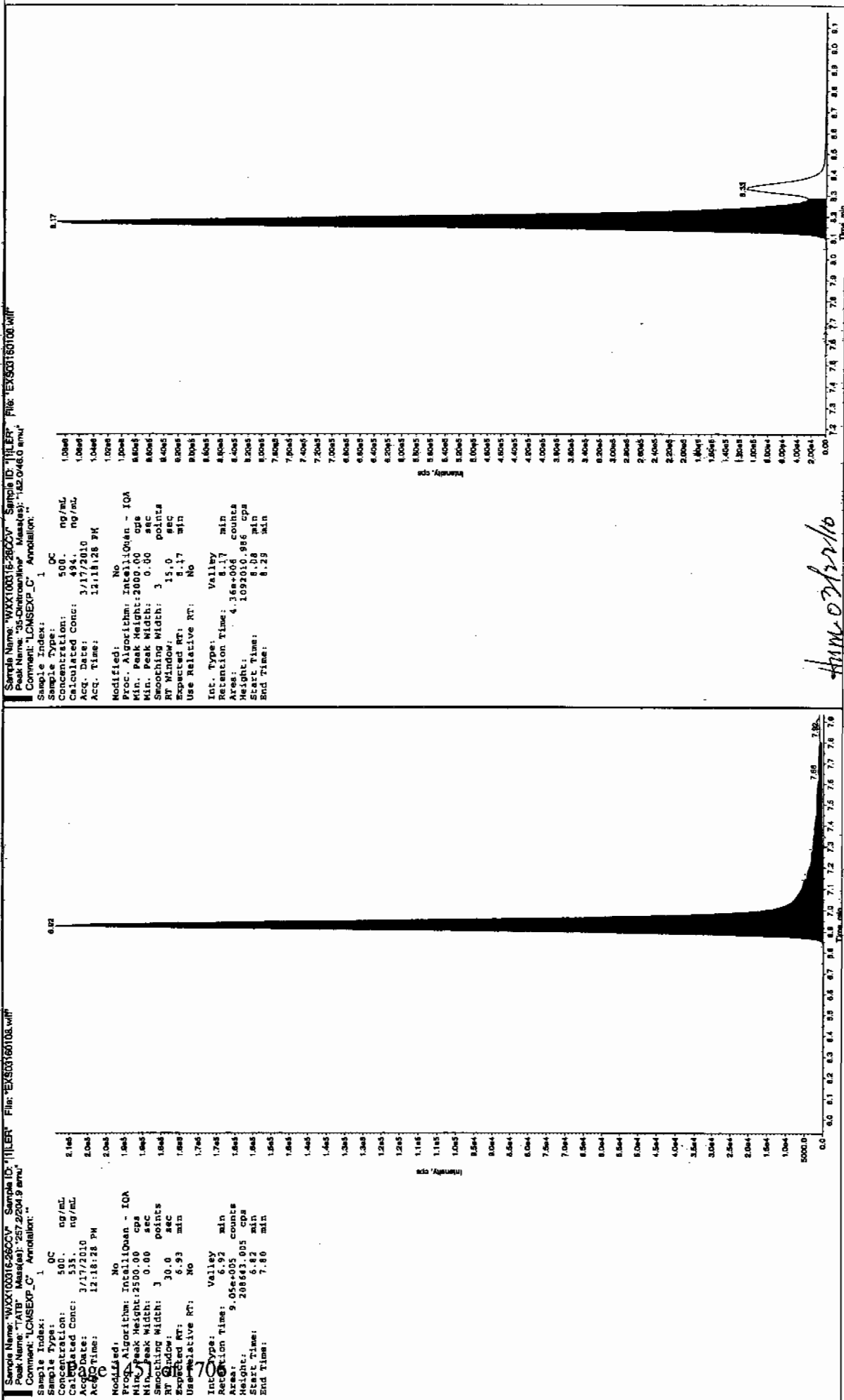
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

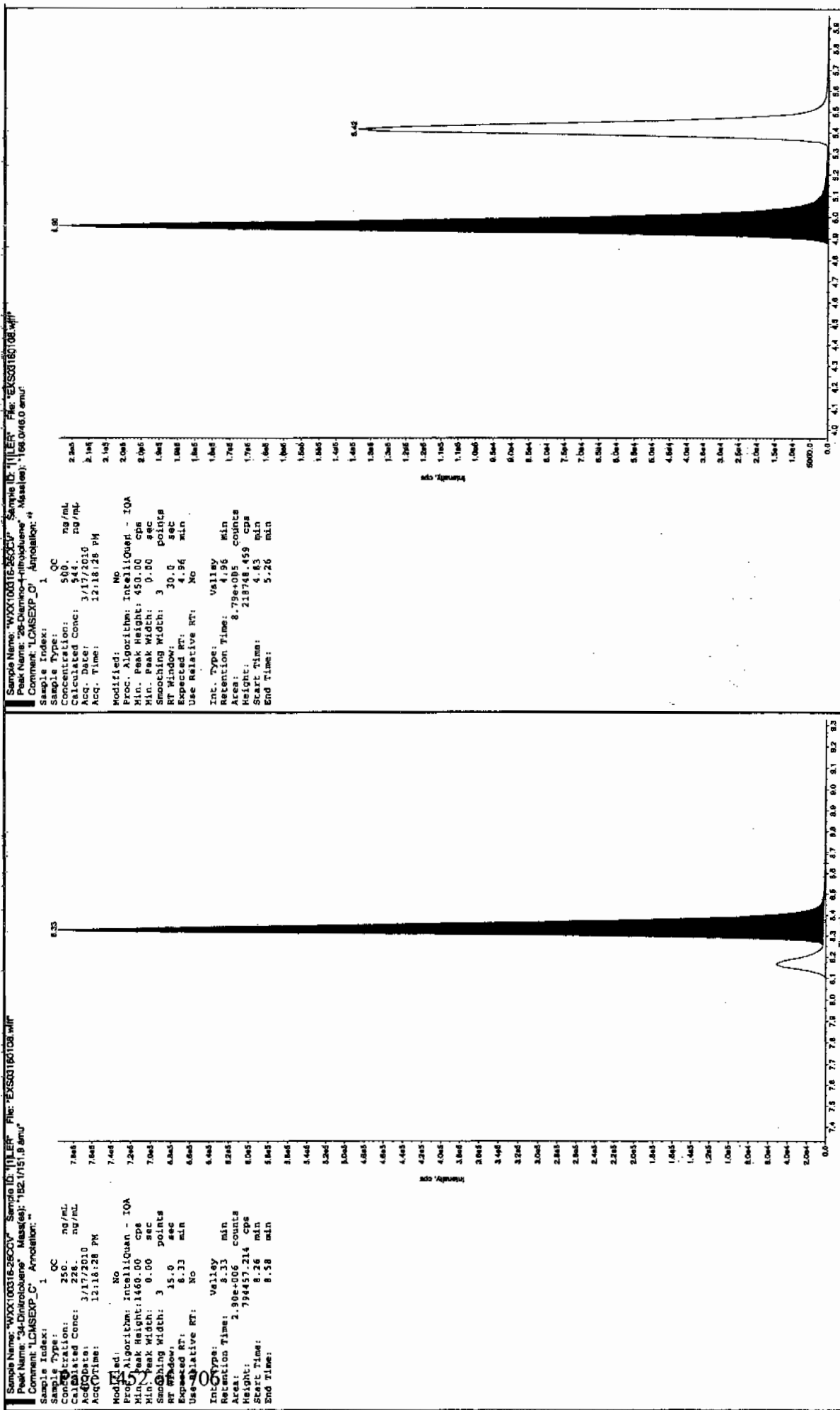
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

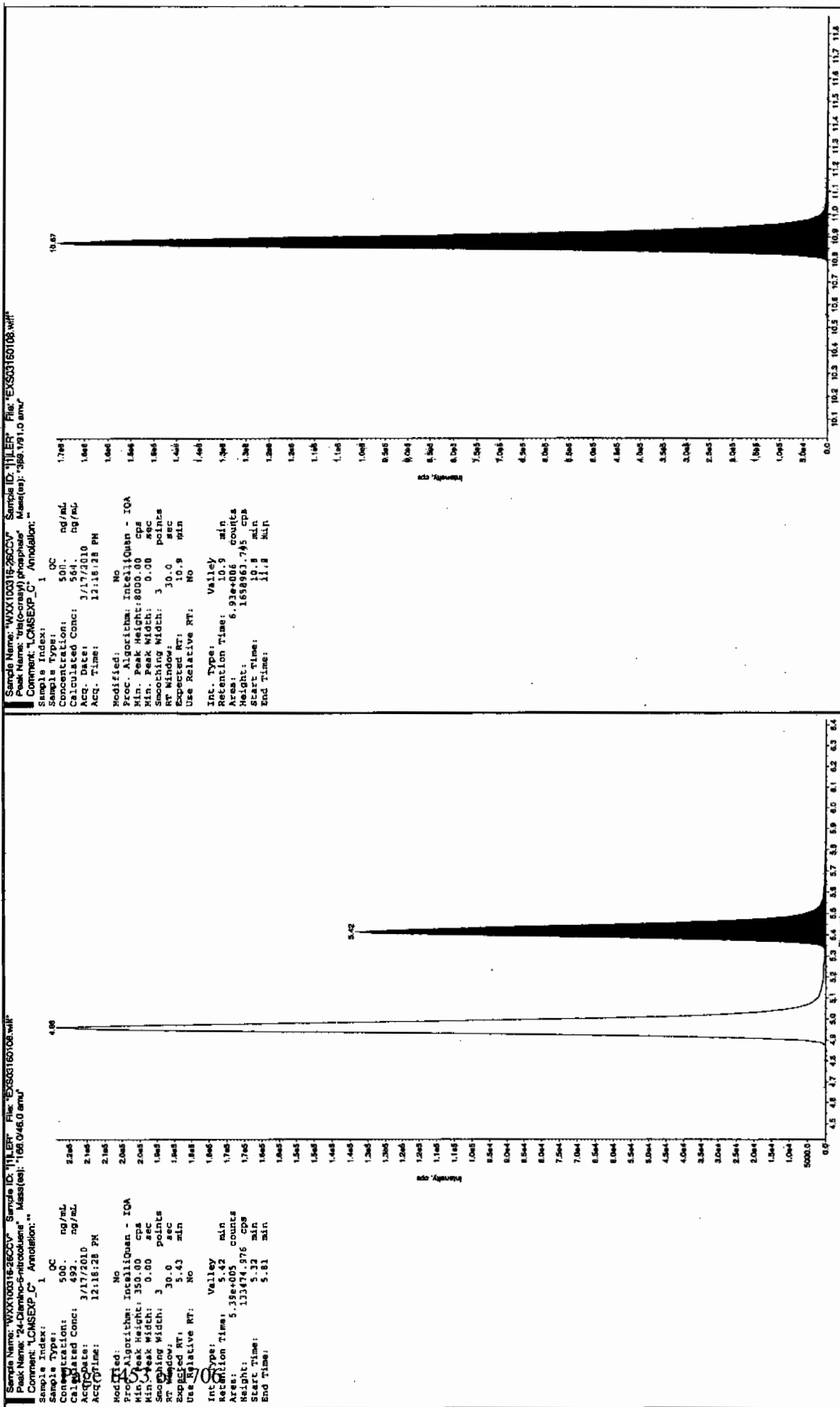
See 31910



See 31910



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160110.wiff

Analysis Date: 17-MAR-10 12:49

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	94.2	94	
2,6-Diamino-4-nitrotoluene	100	108	108	
3,4-Dinitrotoluene	50	47.6	95	
3,5-Dinitroaniline	100	93.2	93	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	115	115	

Recovery Limits:

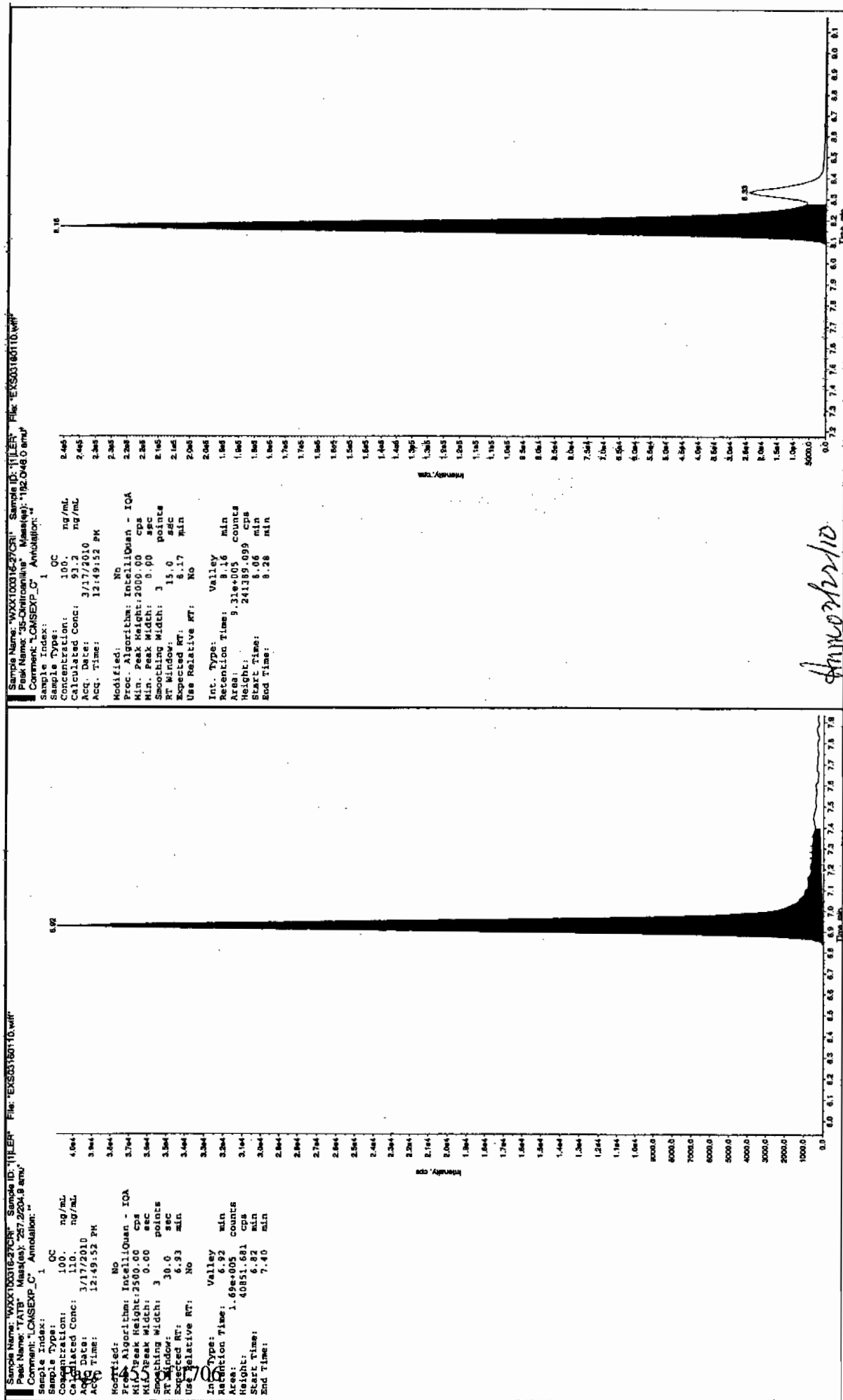
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

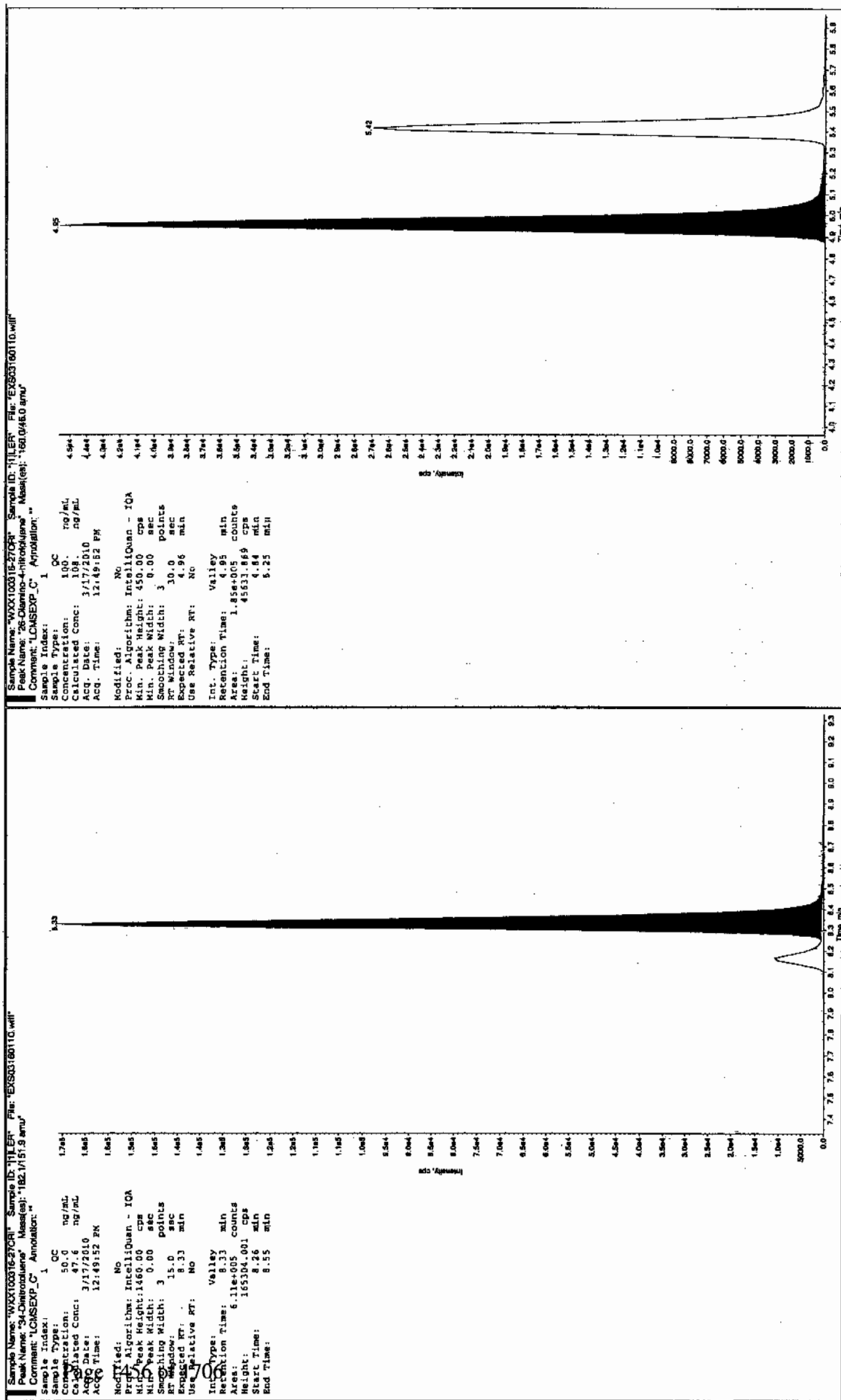
Column used to flag Recovery outside of Limits

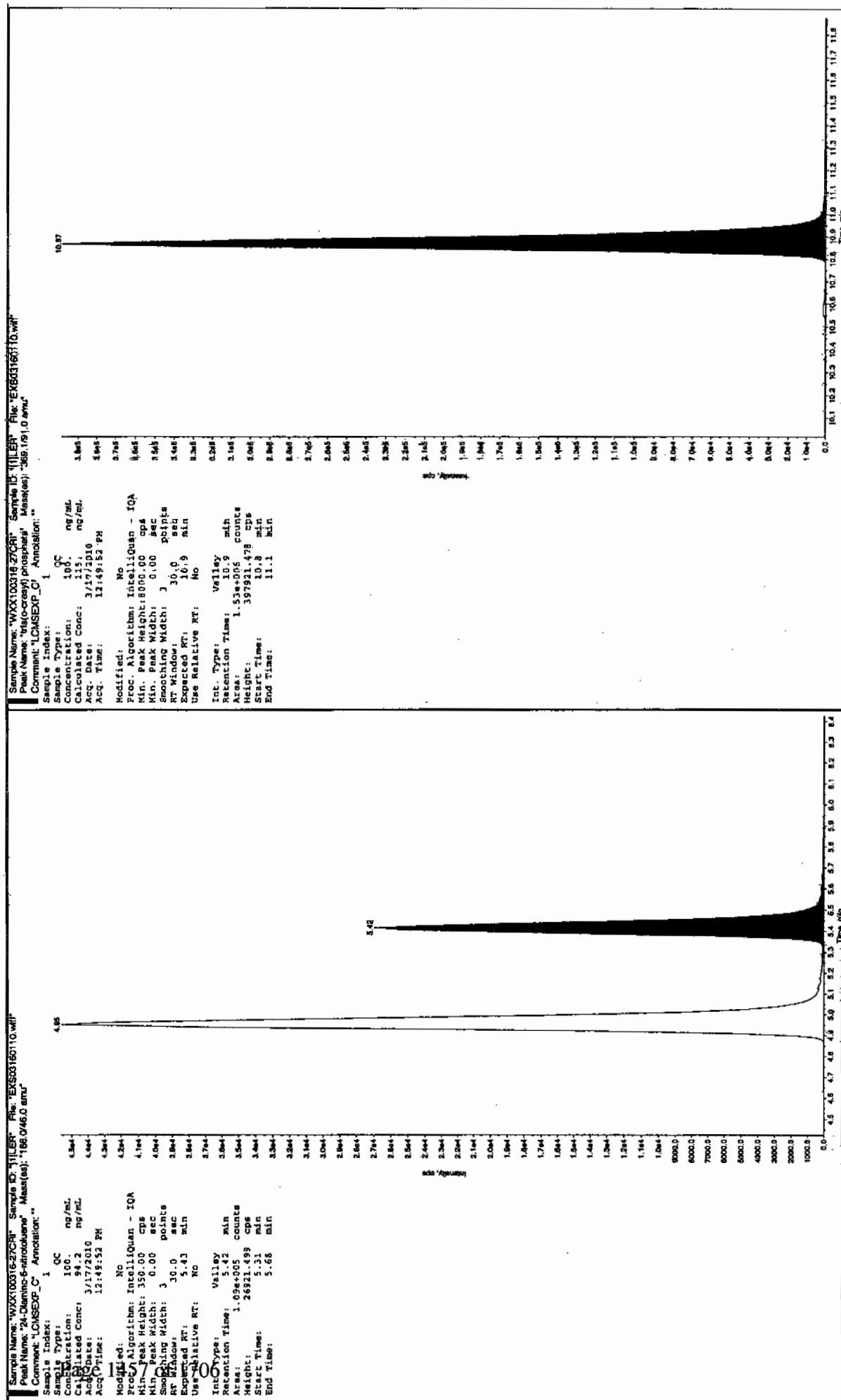
* Value outside of Recovery Limits

See 3/19/10



Amorphous





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160134.wiff

Analysis Date: 17-MAR-10 19:07

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	433	87	
2,6-Diamino-4-nitrotoluene	500	459	92	
3,4-Dinitrotoluene	250	210	84	
3,5-Dinitroaniline	500	454	91	
TATB	500	498	100	
tris(o-cresyl) phosphate	500	514	103	

Recovery Limits:

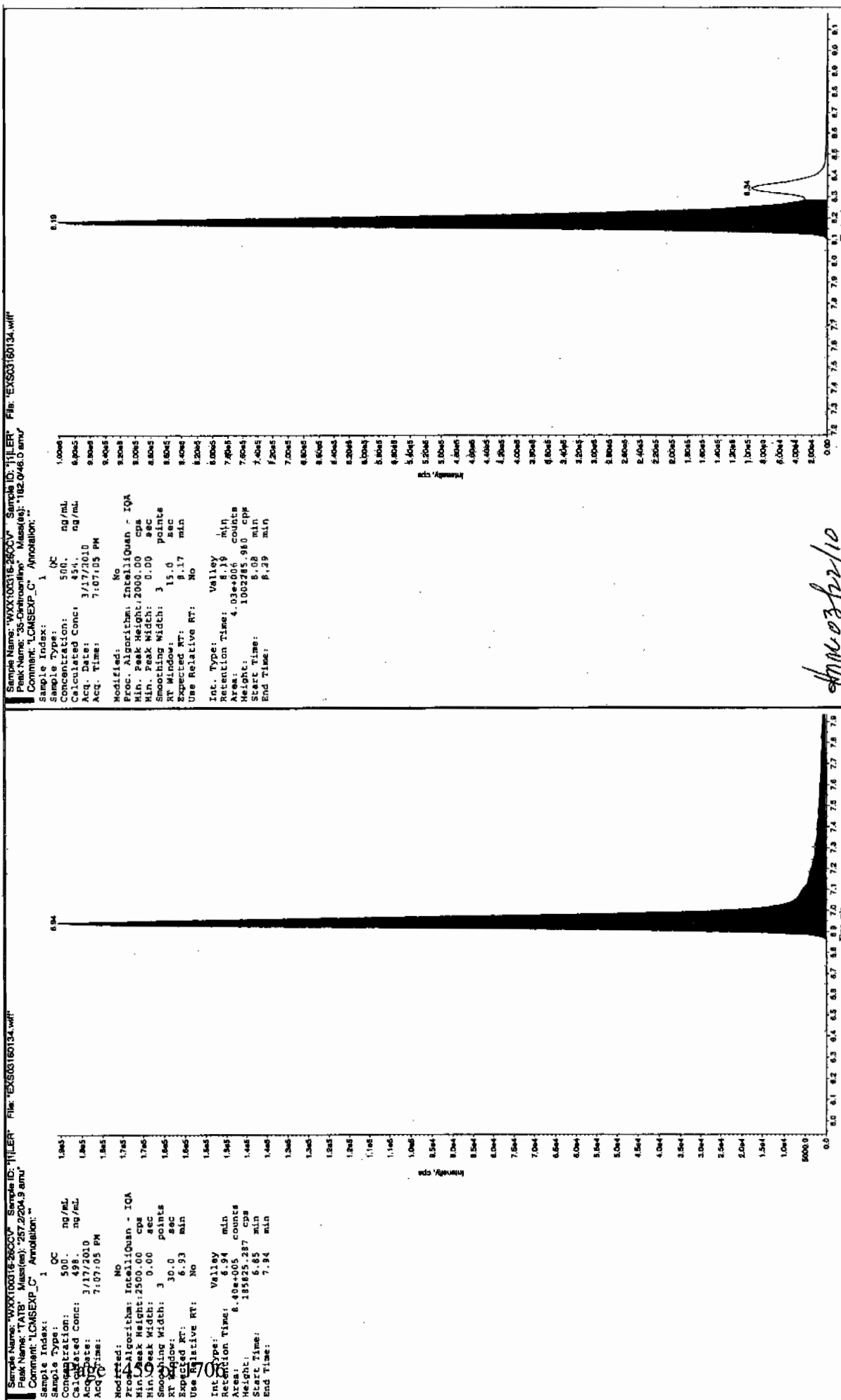
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

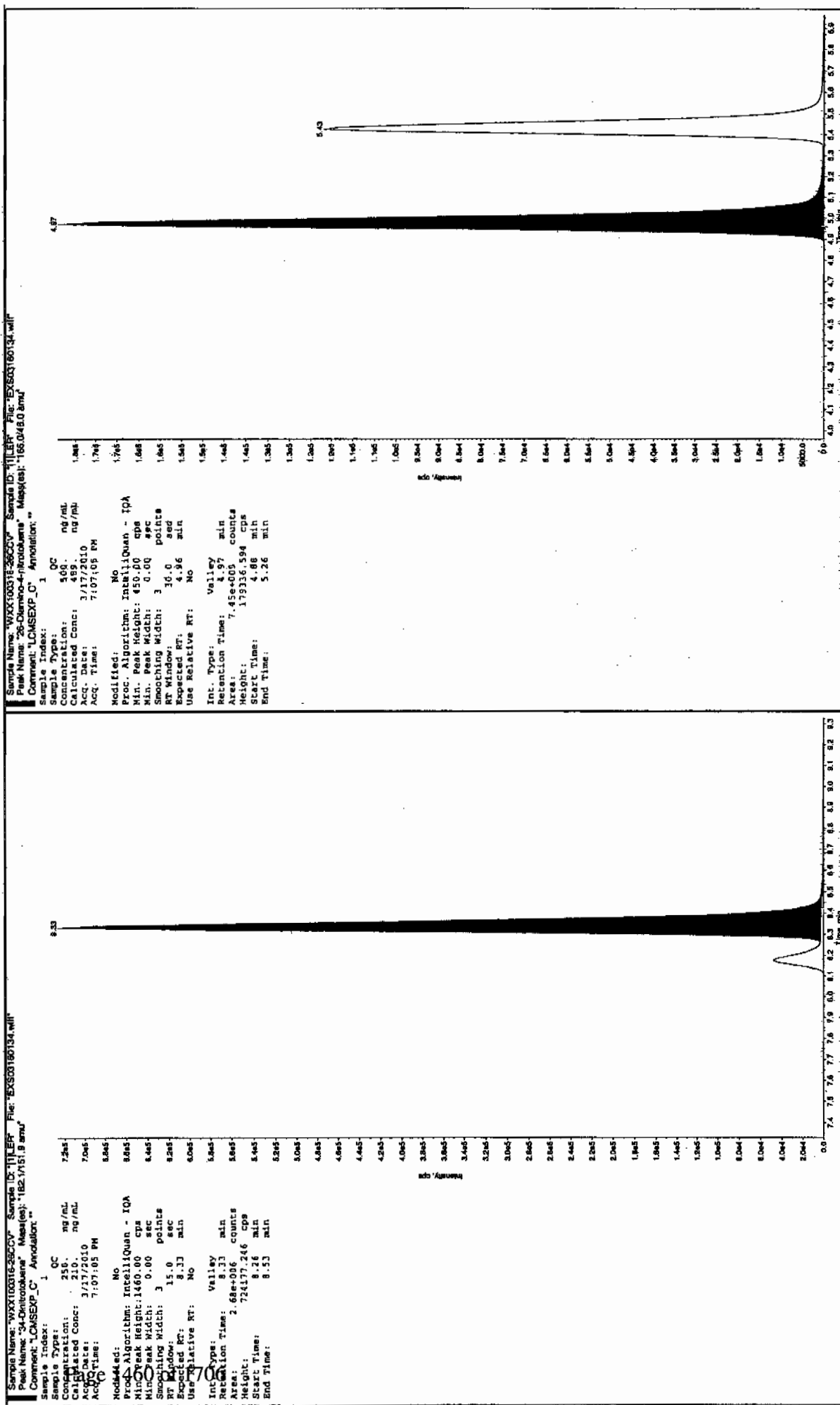
Column used to flag Recovery outside of Limits

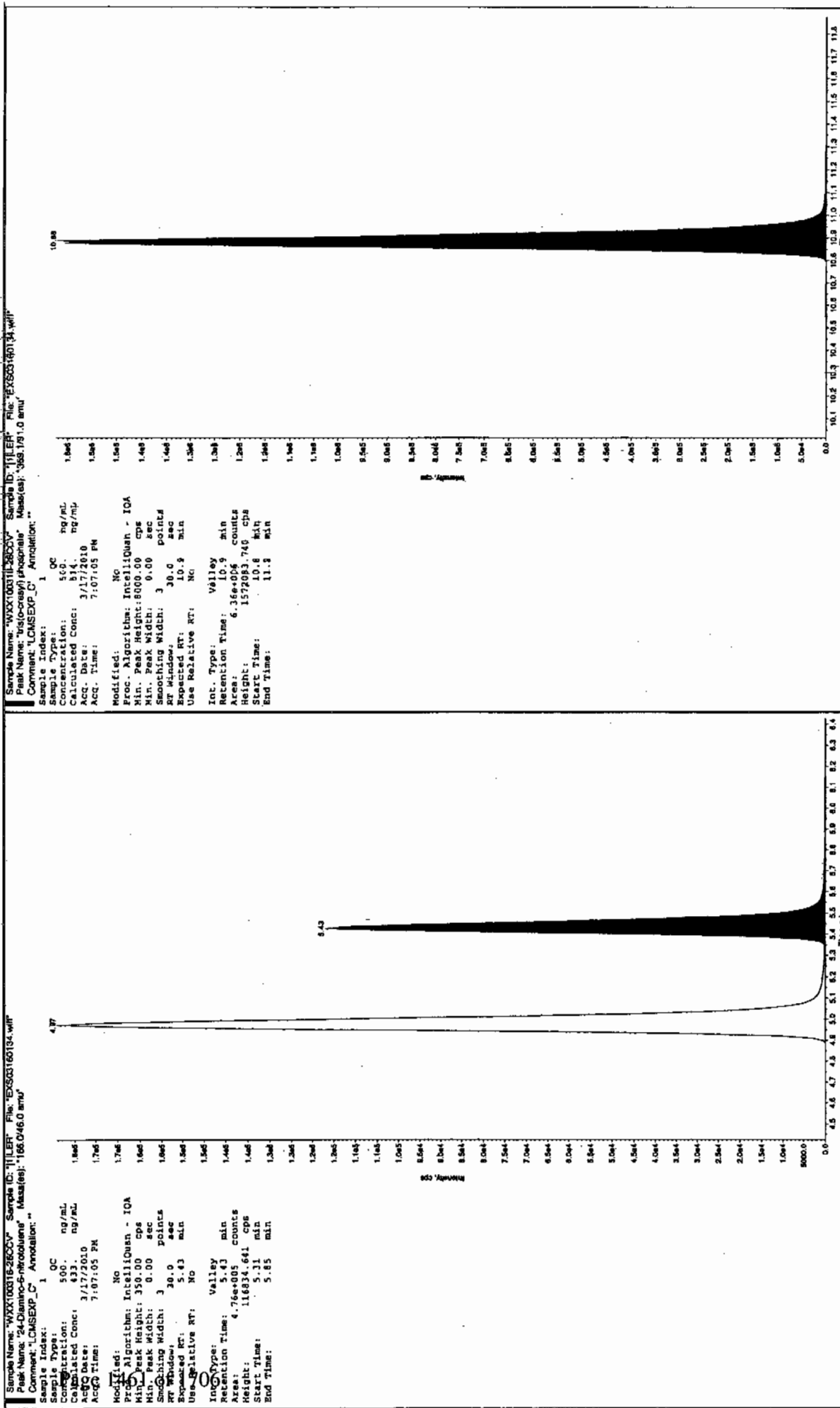
* Value outside of Recovery Limits

OK 3/19/10



OK 3/22/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160136.wiff

Analysis Date: 17-MAR-10 19:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	90.8	91	
2,6-Diamino-4-nitrotoluene	100	93.5	94	
3,4-Dinitrotoluene	50	44	88	
3,5-Dinitroaniline	100	86.8	87	
TATB	100	99.9	100	
tris(o-cresyl) phosphate	100	103	103	

Recovery Limits:

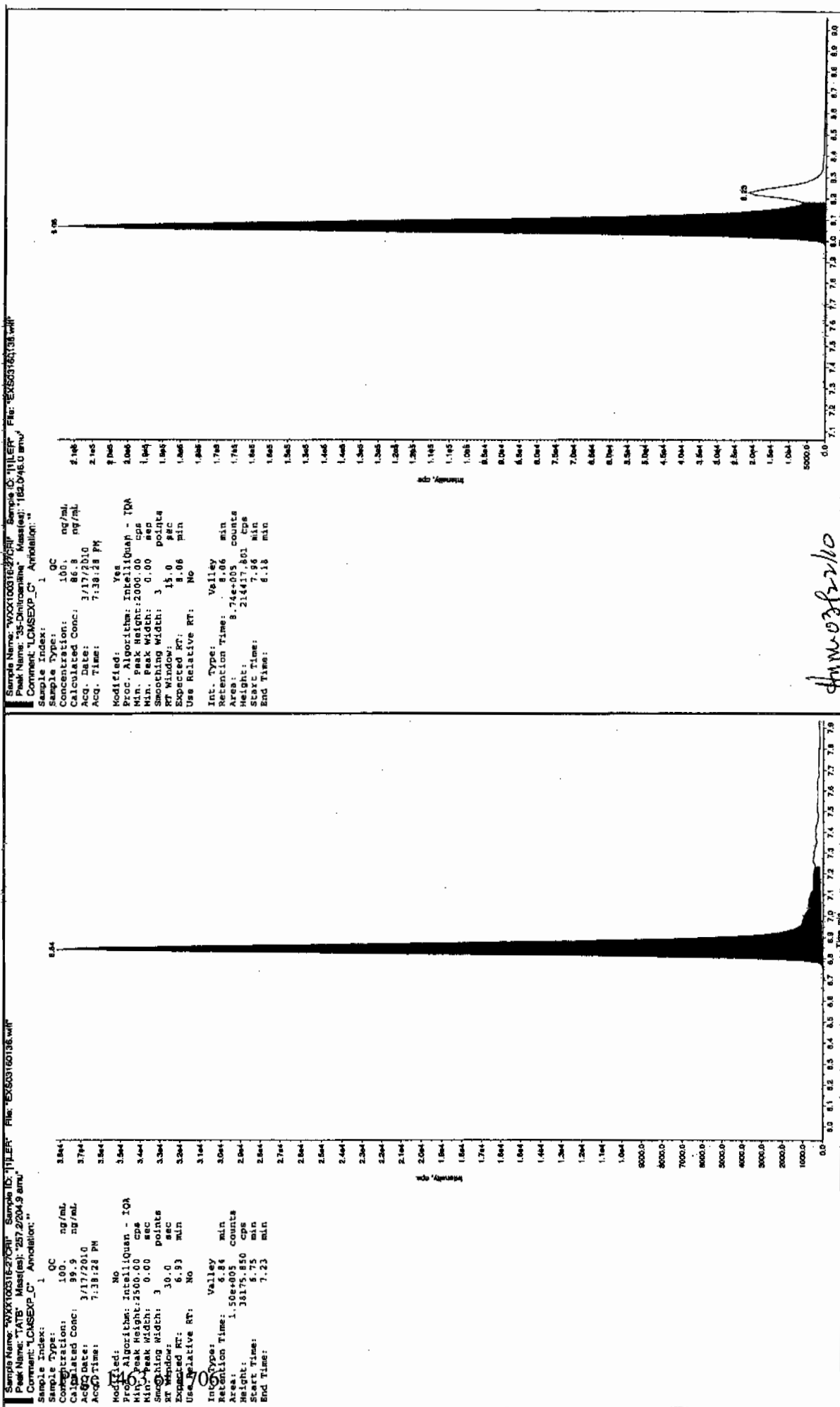
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

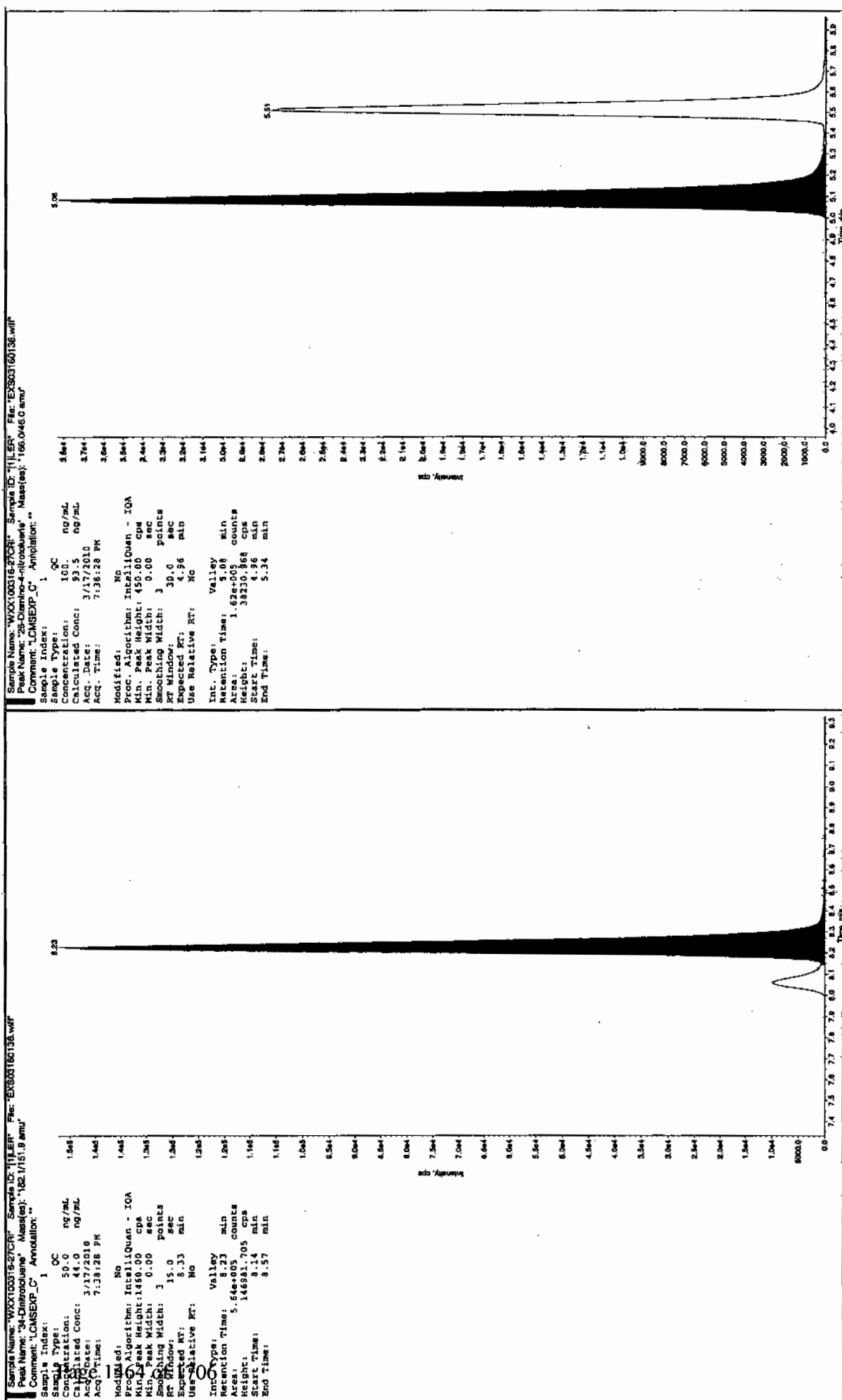
Column used to flag Recovery outside of Limits

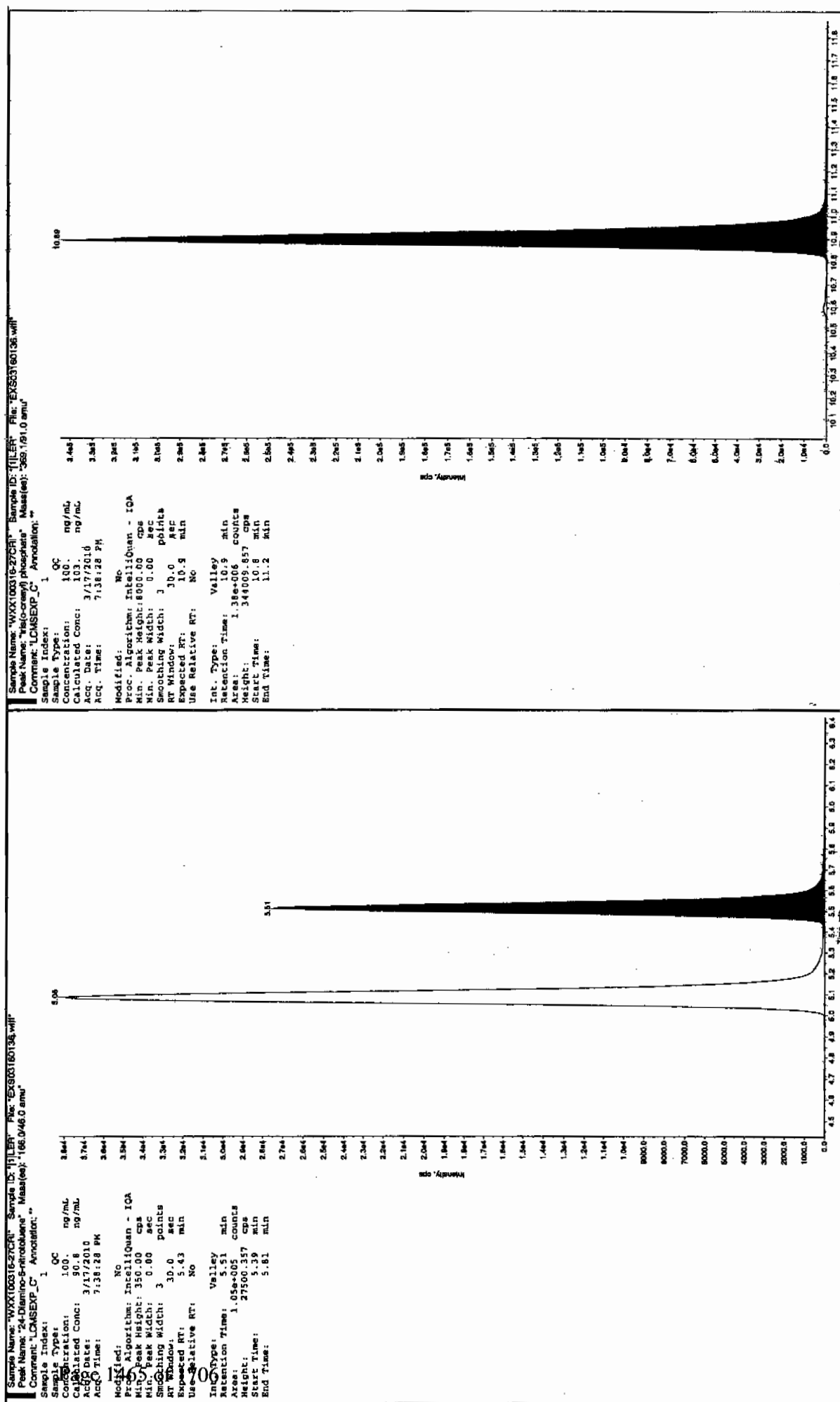
* Value outside of Recovery Limits

Scan 319/110



Scan 319/110





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160142.wiff

Analysis Date: 17-MAR-10 21:12

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	500	499	100	
tris(o-cresyl) phosphate	500	514	103	
2,4-Diamino-6-nitrotoluene	500	466	93	
2,6-Diamino-4-nitrotoluene	500	492	98	
3,4-Dinitrotoluene	250	211	85	
3,5-Dinitroaniline	500	473	95	

Recovery Limits:

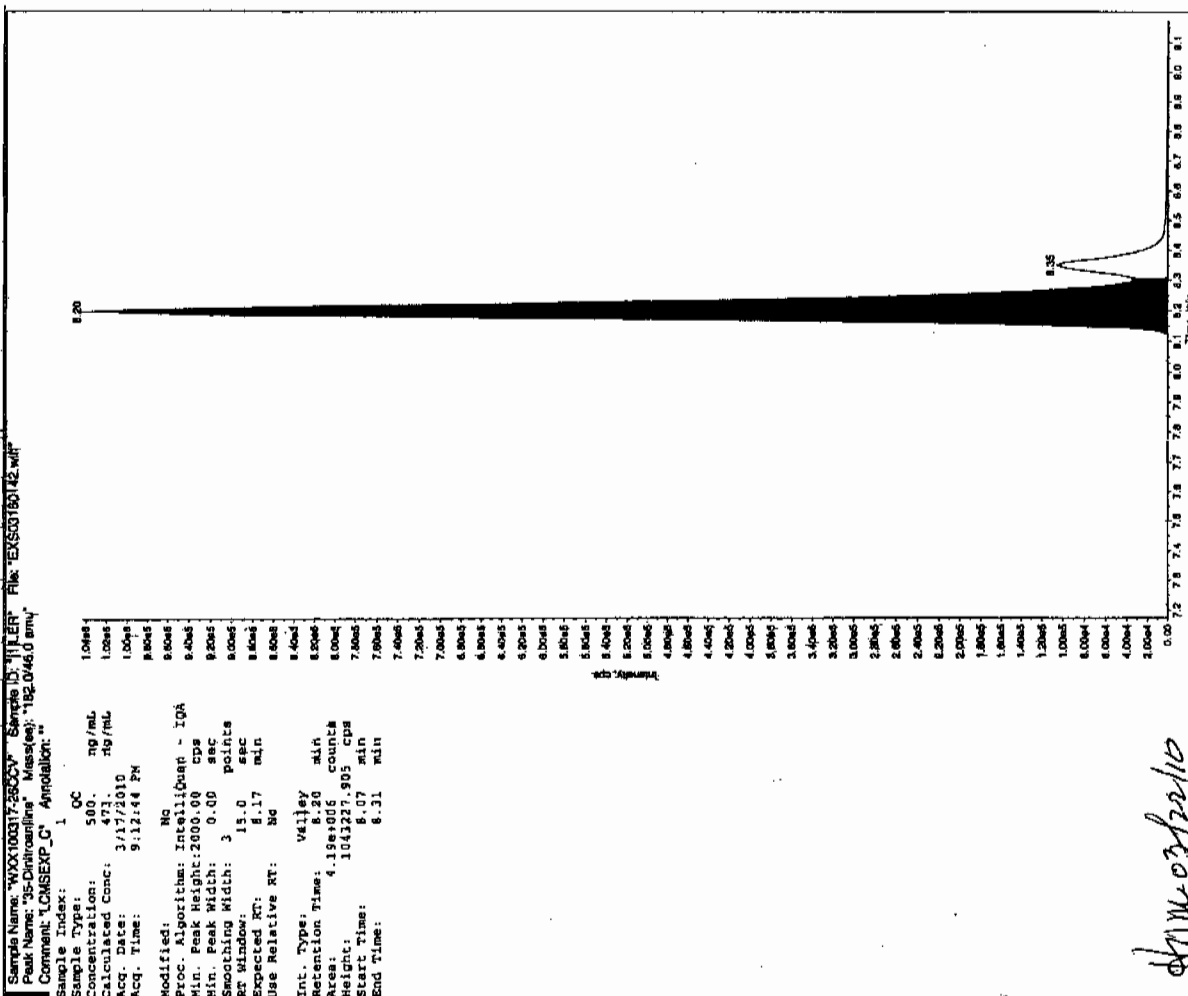
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

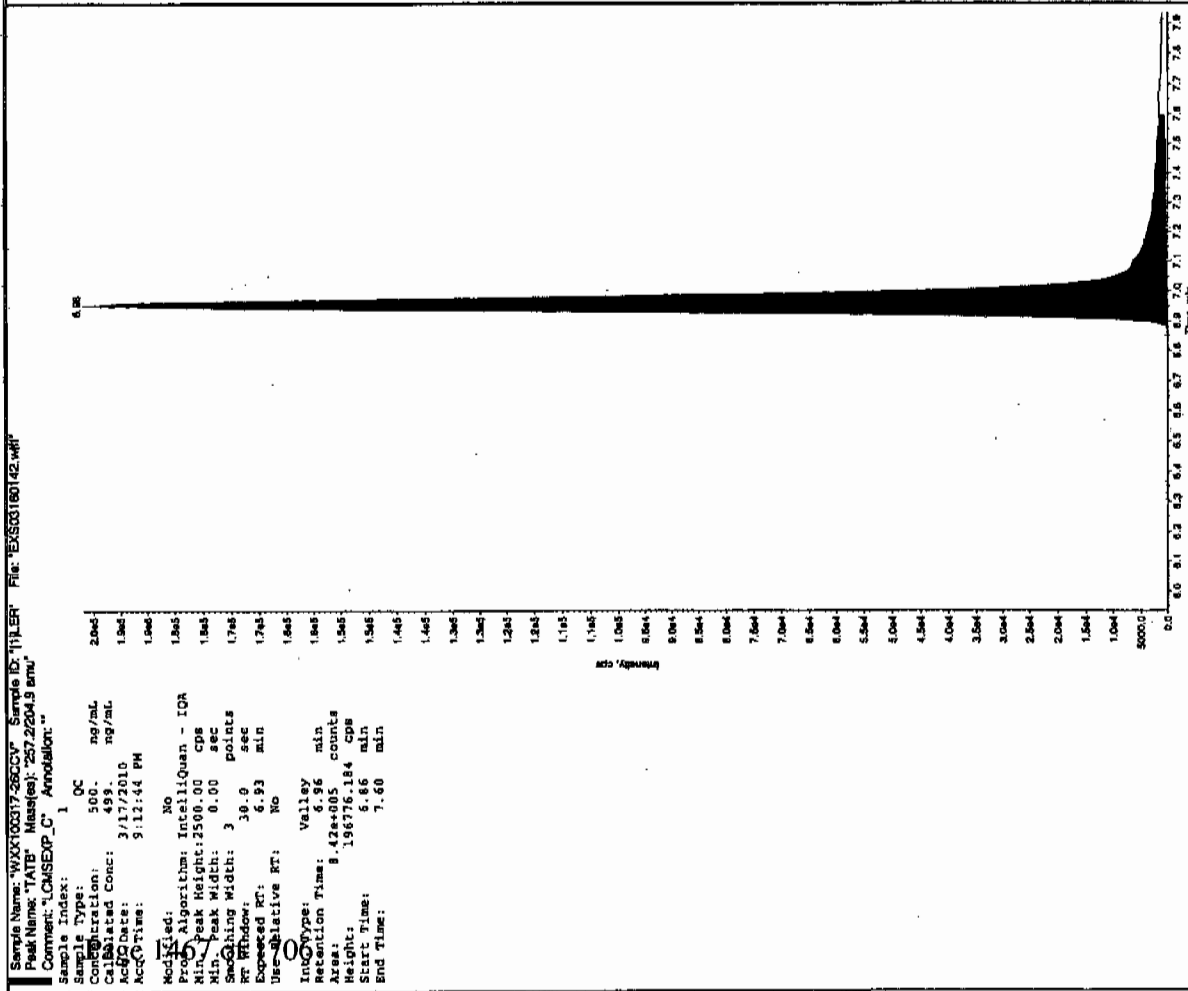
Column used to flag Recovery outside of Limits

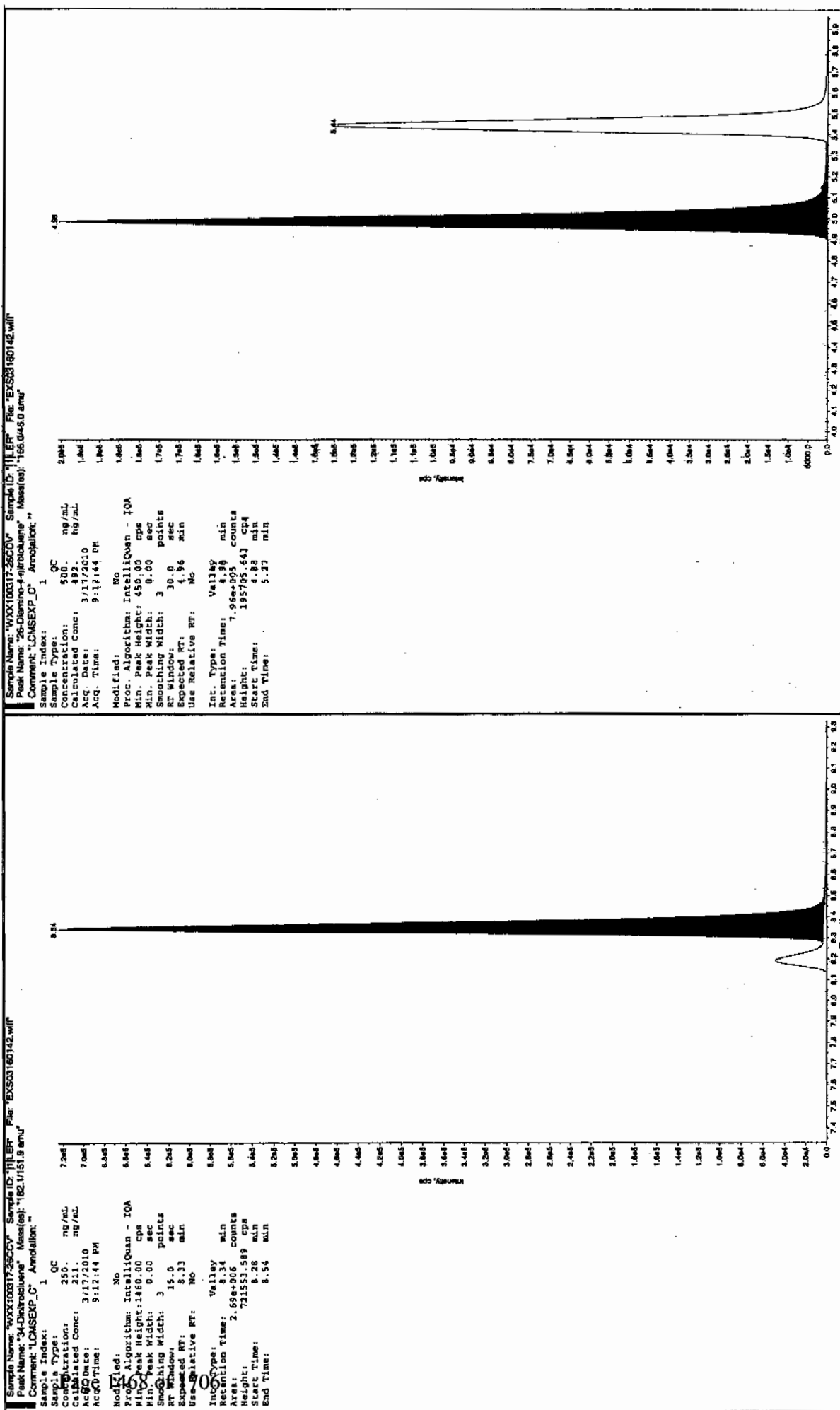
* Value outside of Recovery Limits

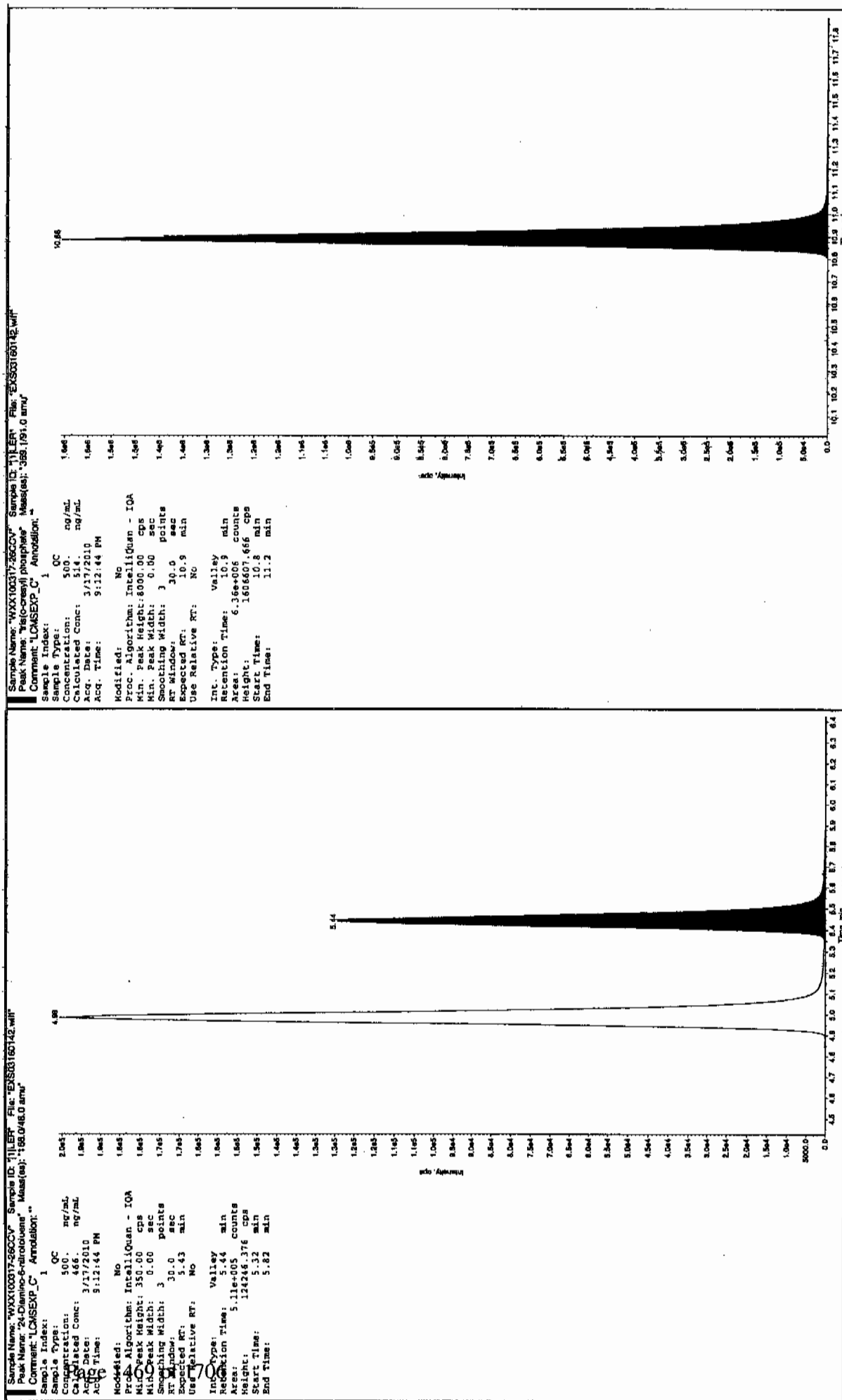
File 3119110



File 8321A







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160144.wiff

Analysis Date: 17-MAR-10 21:44

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	91.5	92	
2,6-Diamino-4-nitrotoluene	100	95.7	96	
3,4-Dinitrotoluene	50	47	94	
3,5-Dinitroaniline	100	89.7	90	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	104	104	

Recovery Limits:

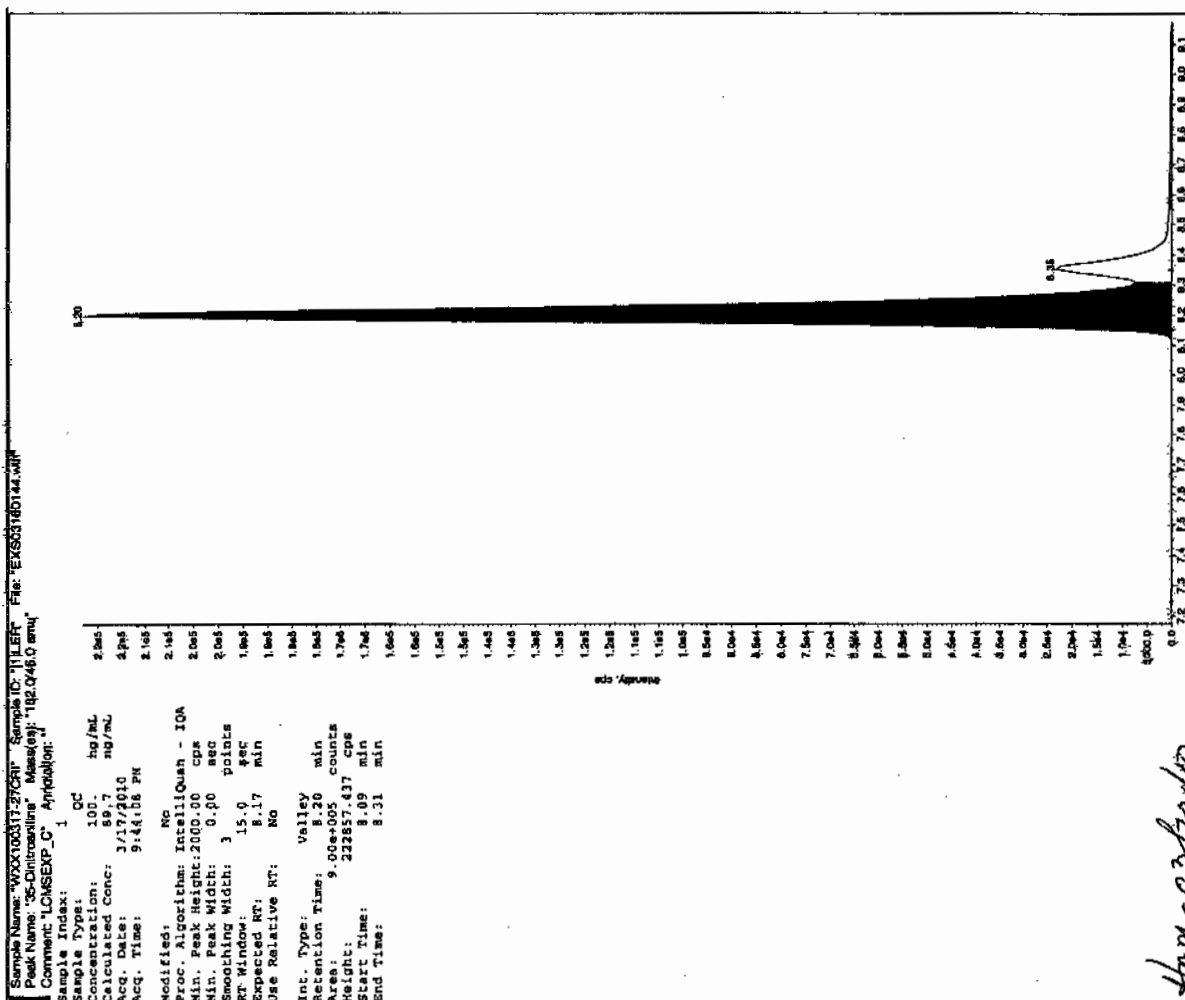
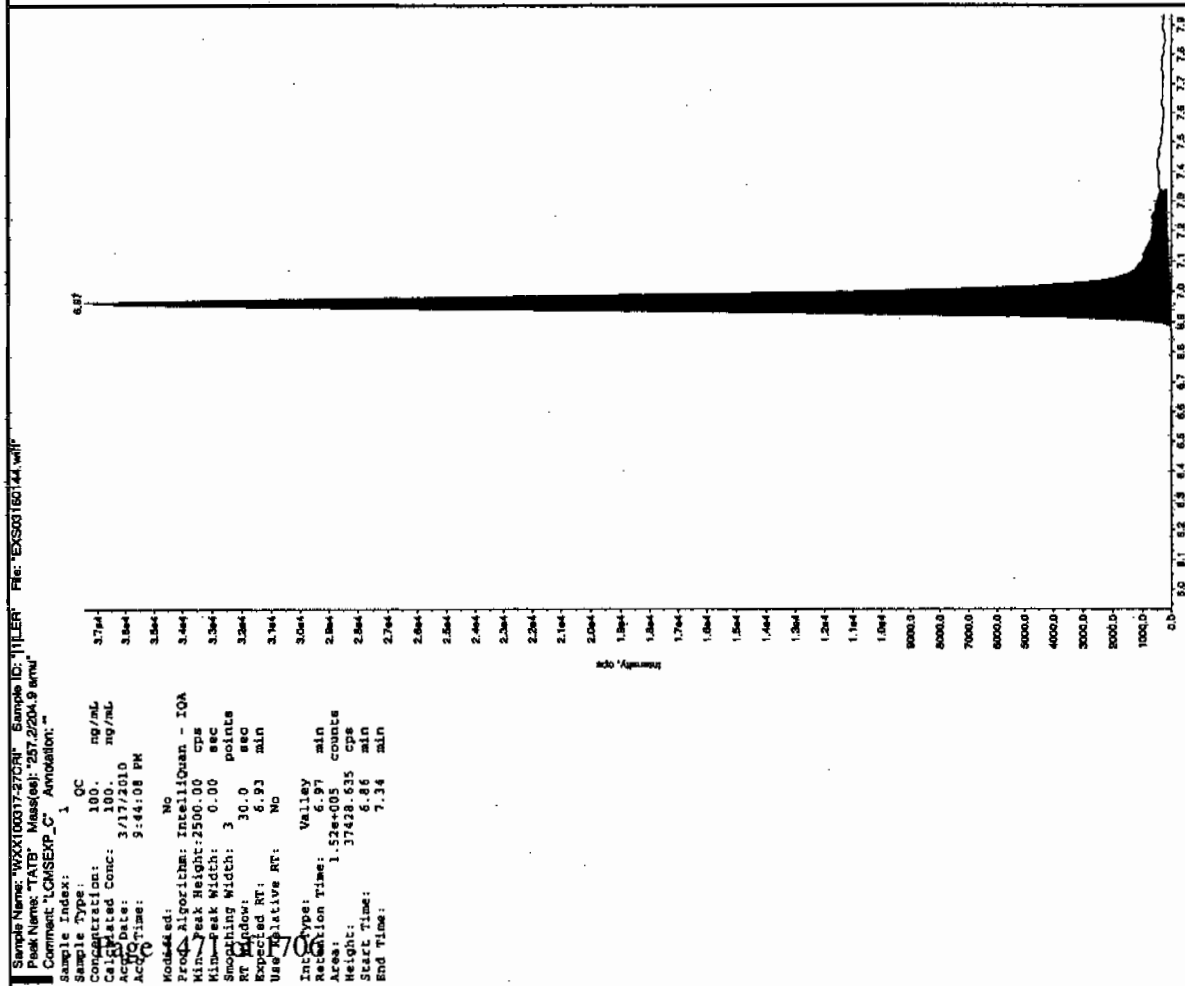
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

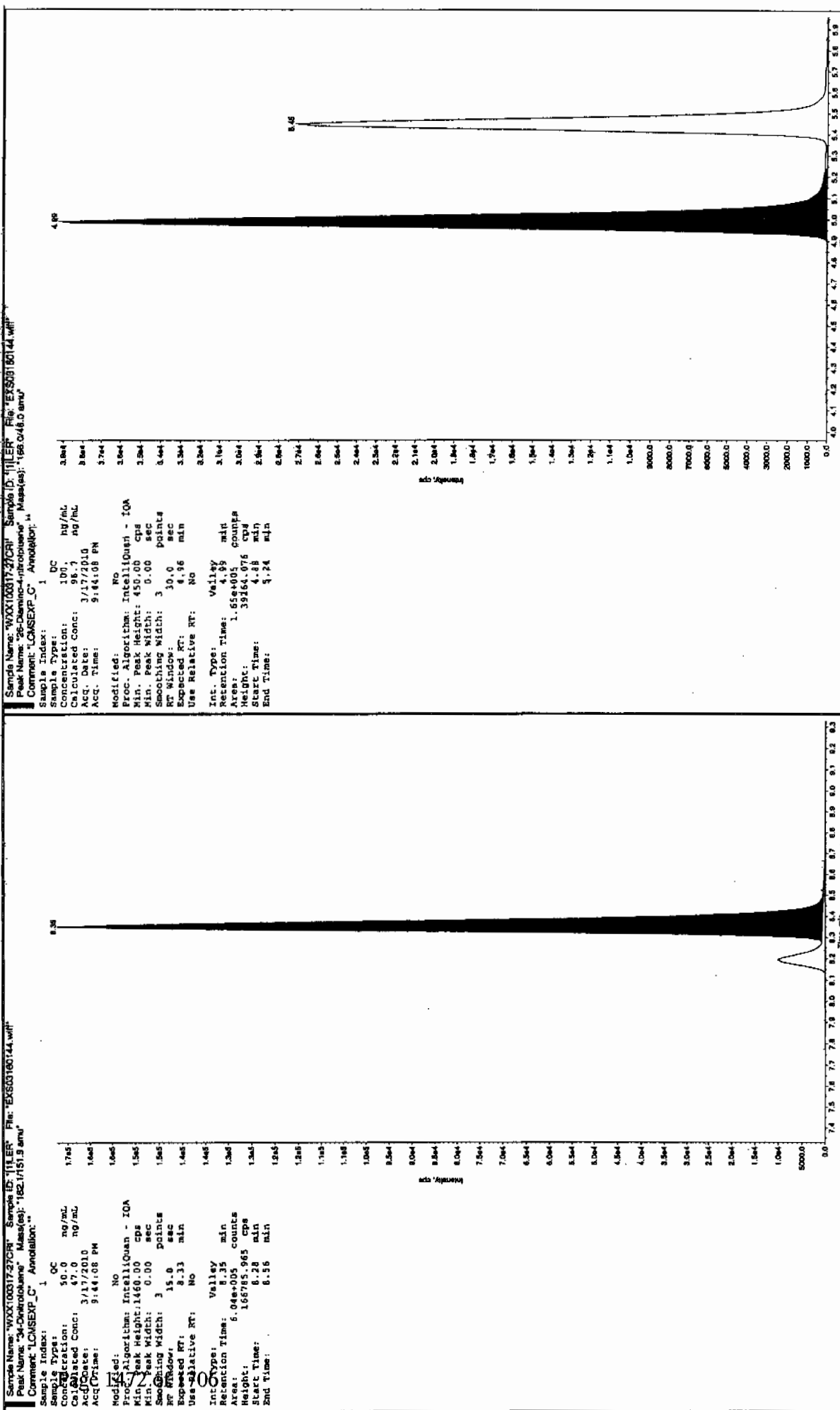
Column used to flag Recovery outside of Limits

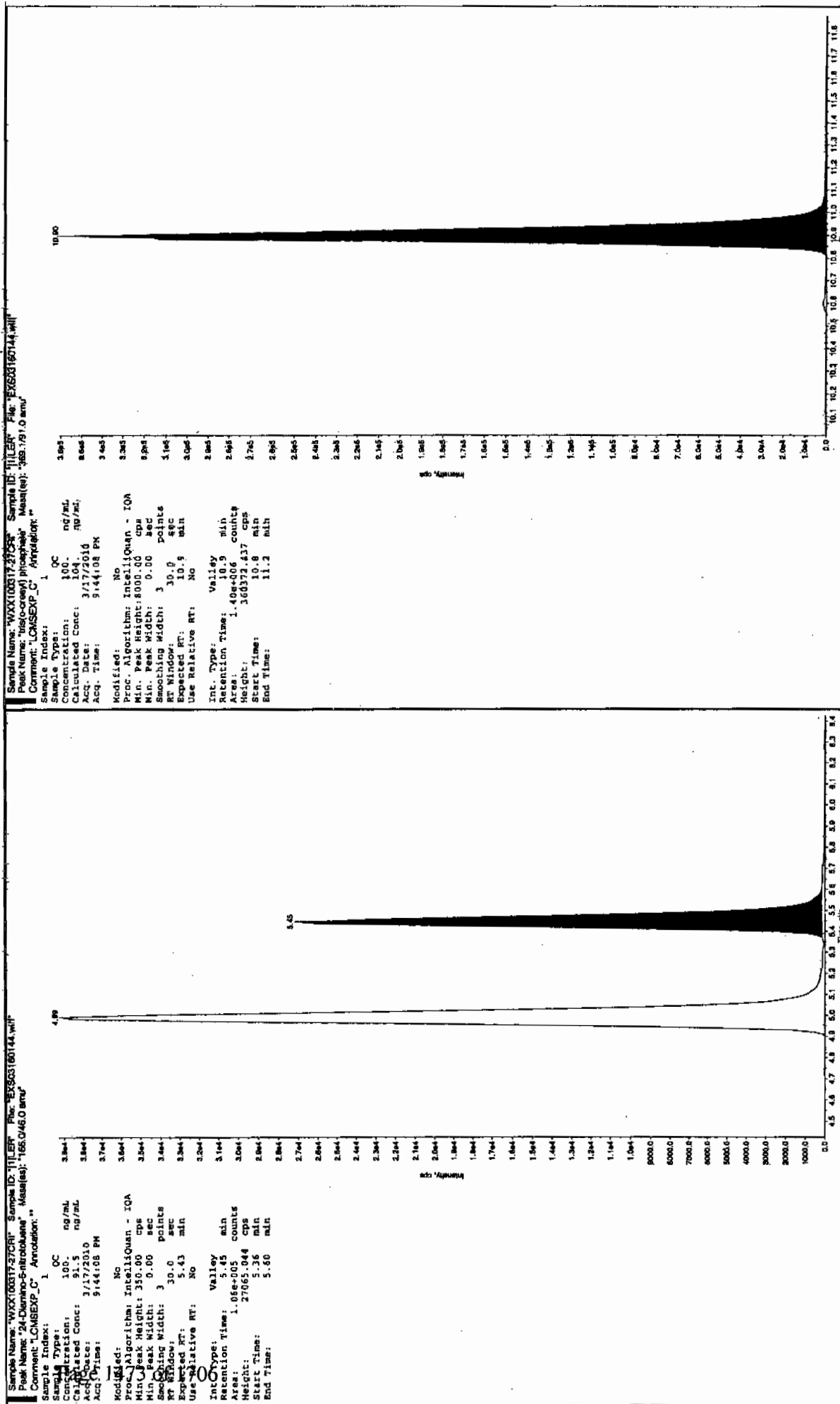
* Value outside of Recovery Limits

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Am 03/12/12





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160155.wiff

Analysis Date: 18-MAR-10 00:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	517	103	
2,6-Diamino-4-nitrotoluene	500	500	100	
3,4-Dinitrotoluene	250	225	90	
3,5-Dinitroaniline	500	471	94	
TATB	500	541	108	
tris(o-cresyl) phosphate	500	516	103	

Recovery Limits:

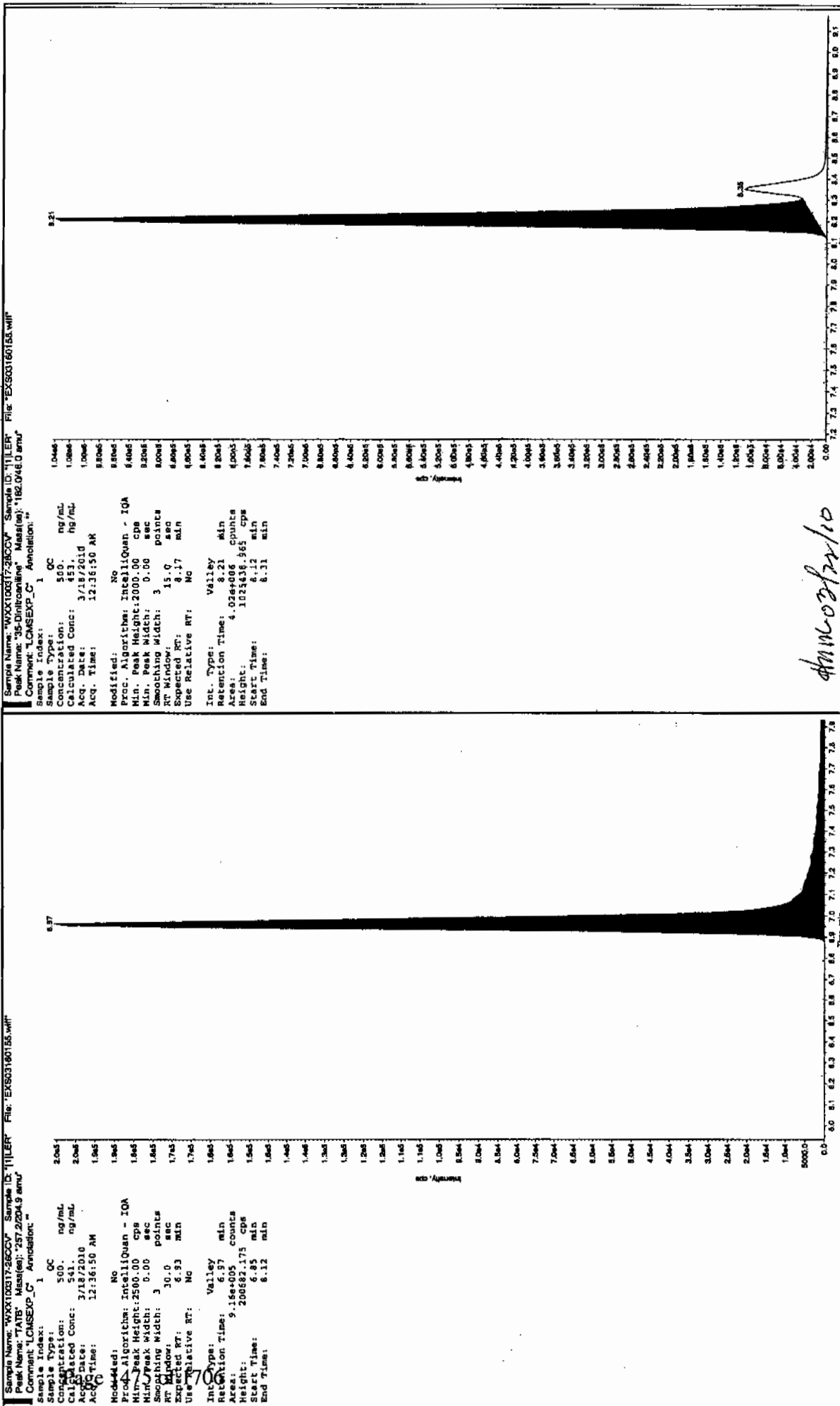
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

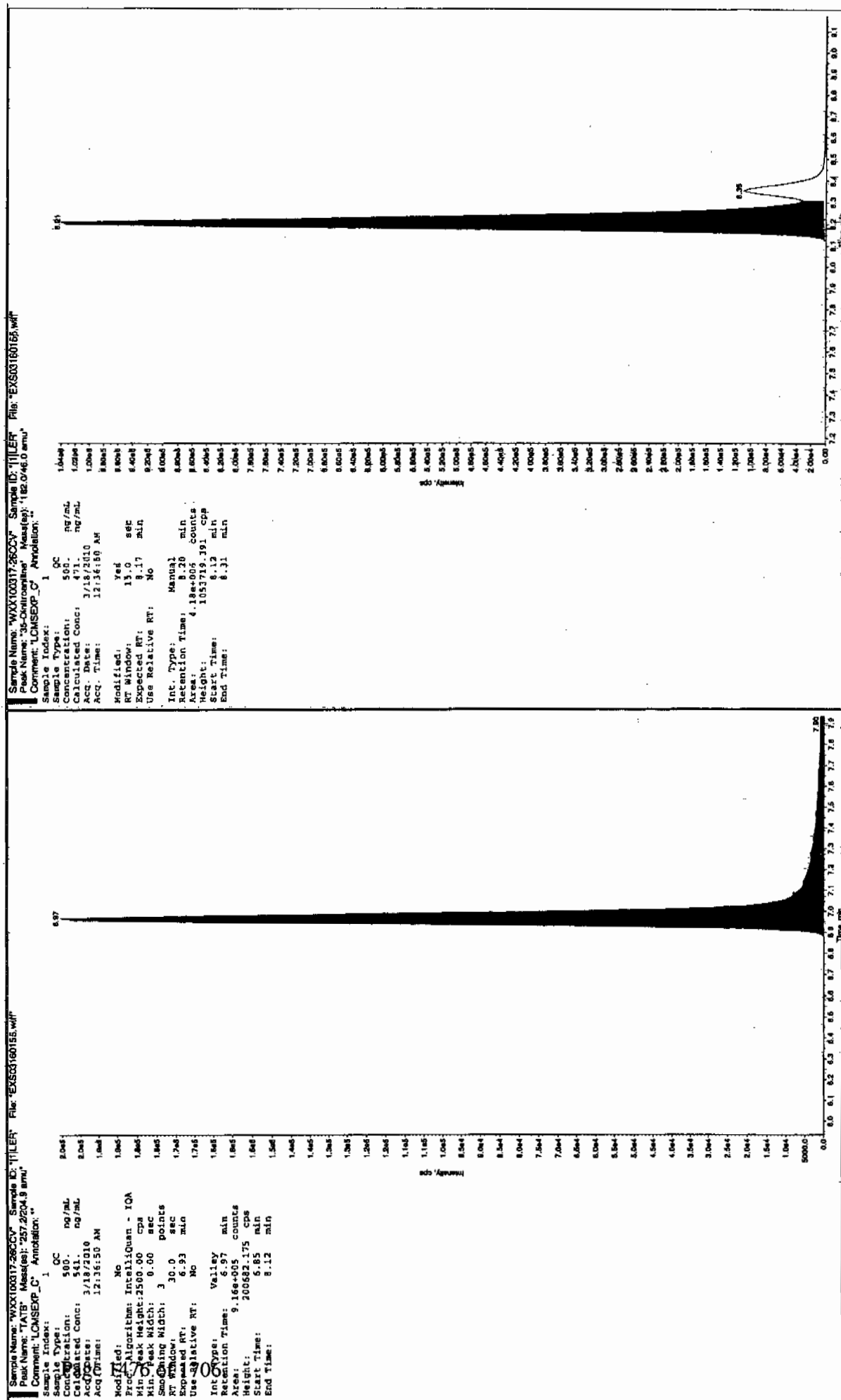
Column used to flag Recovery outside of Limits

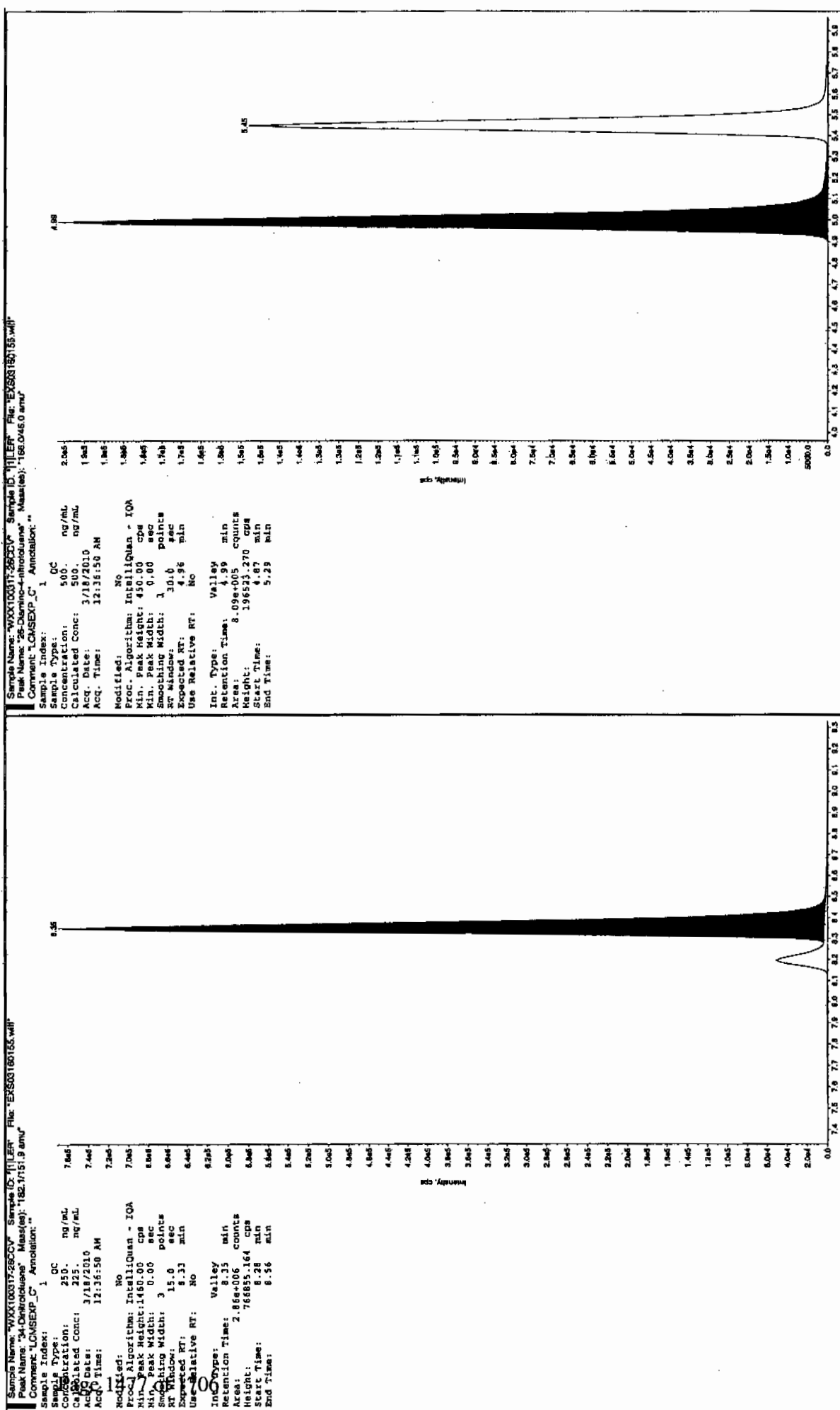
* Value outside of Recovery Limits

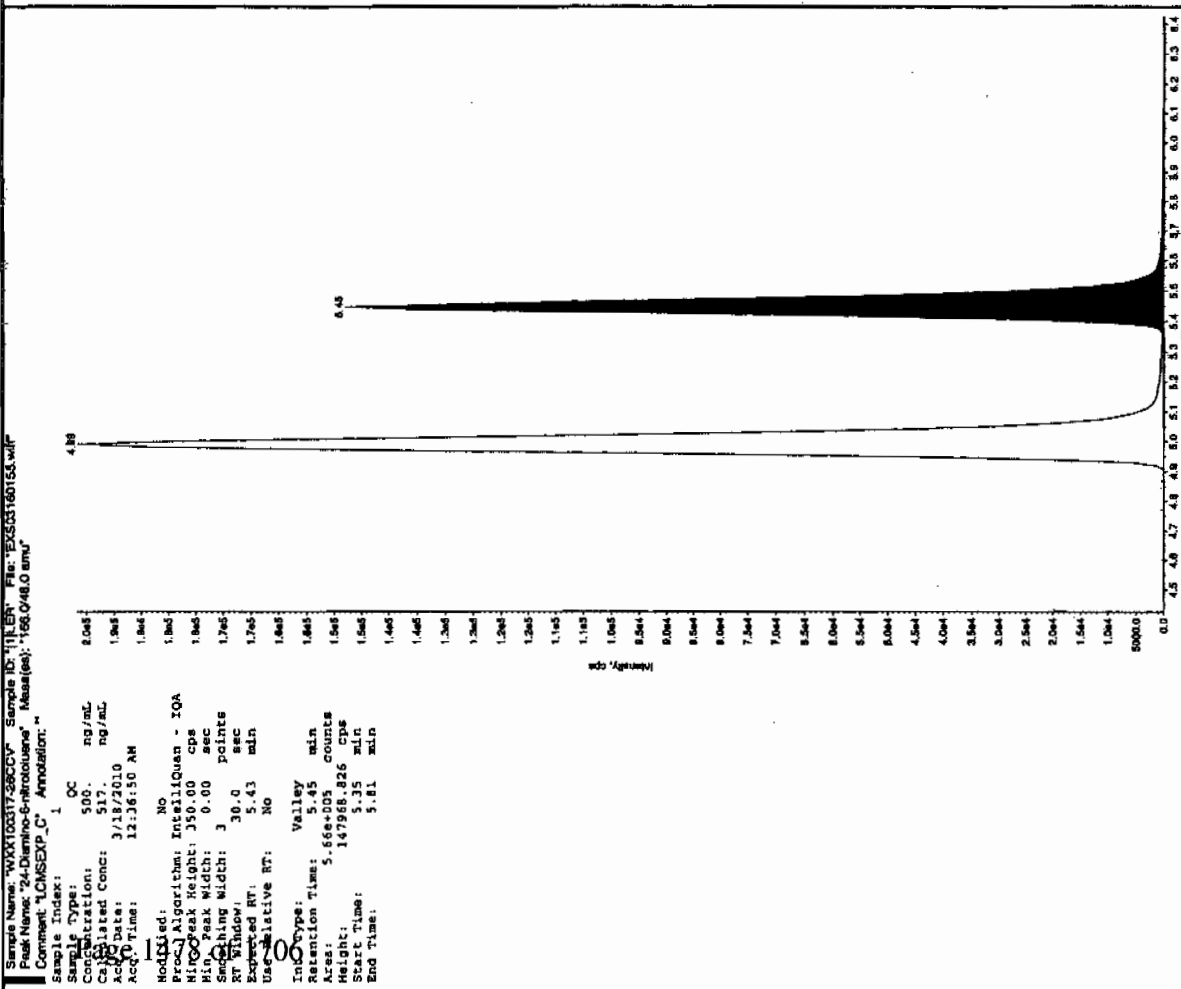
Before Jan 31/8/10



after Jan 31/9/10







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160157.wiff

Analysis Date: 18-MAR-10 01:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	96	96	
2,6-Diamino-4-nitrotoluene	100	92.1	92	
3,4-Dinitrotoluene	50	47.1	94	
3,5-Dinitroaniline	100	89.8	90	
TATB	100	106	106	
tris(o-cresyl) phosphate	100	107	107	

Recovery Limits:

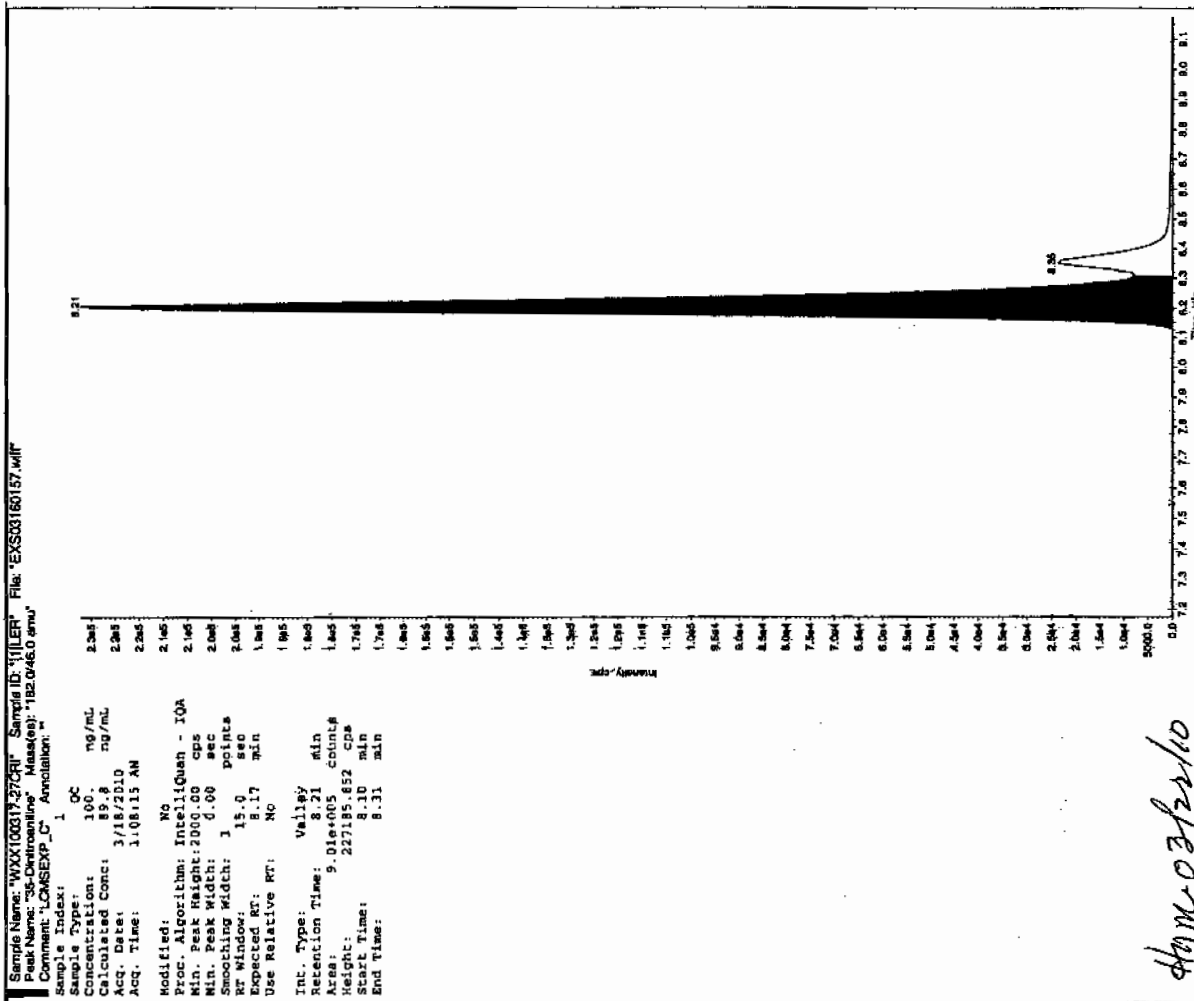
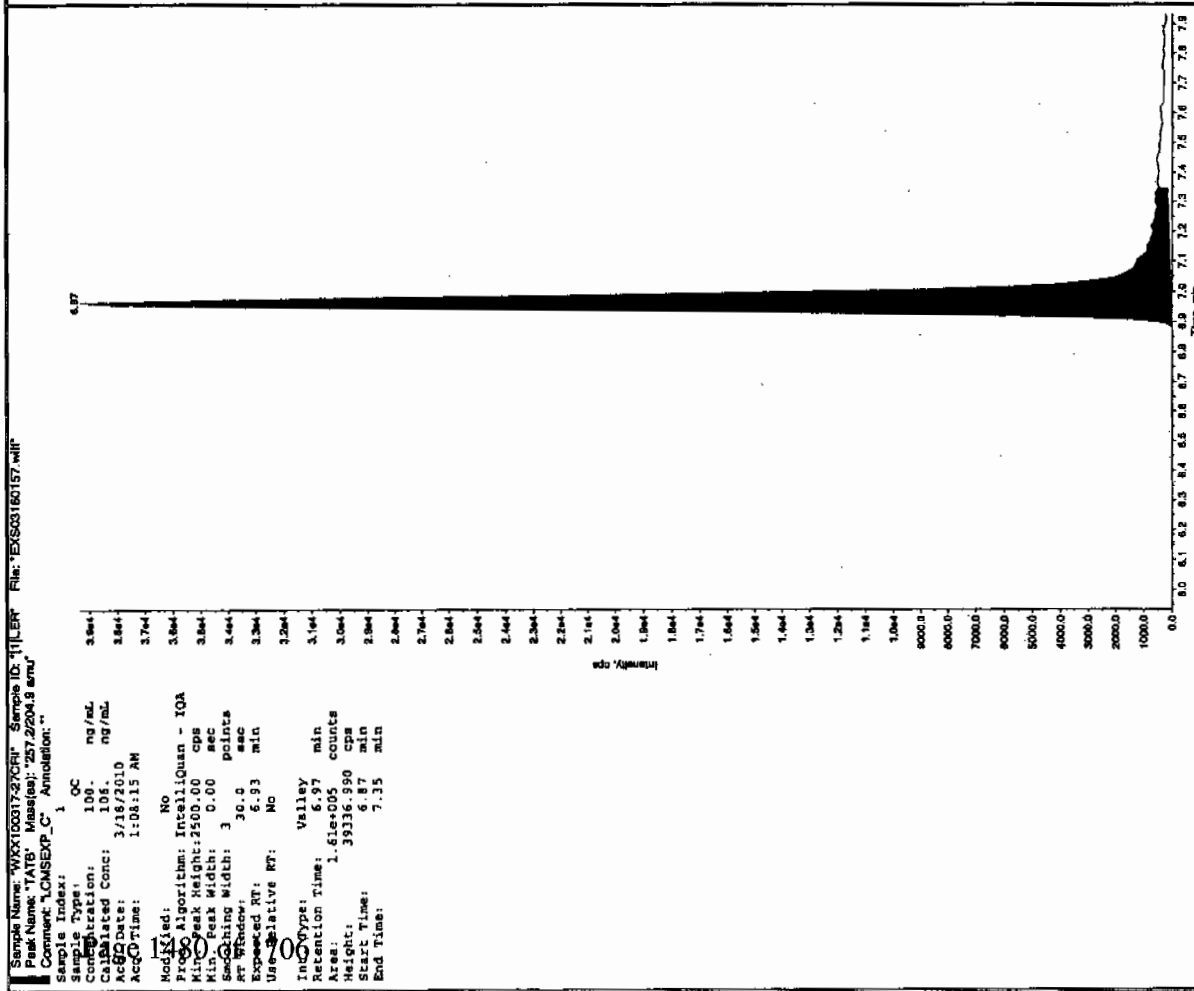
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

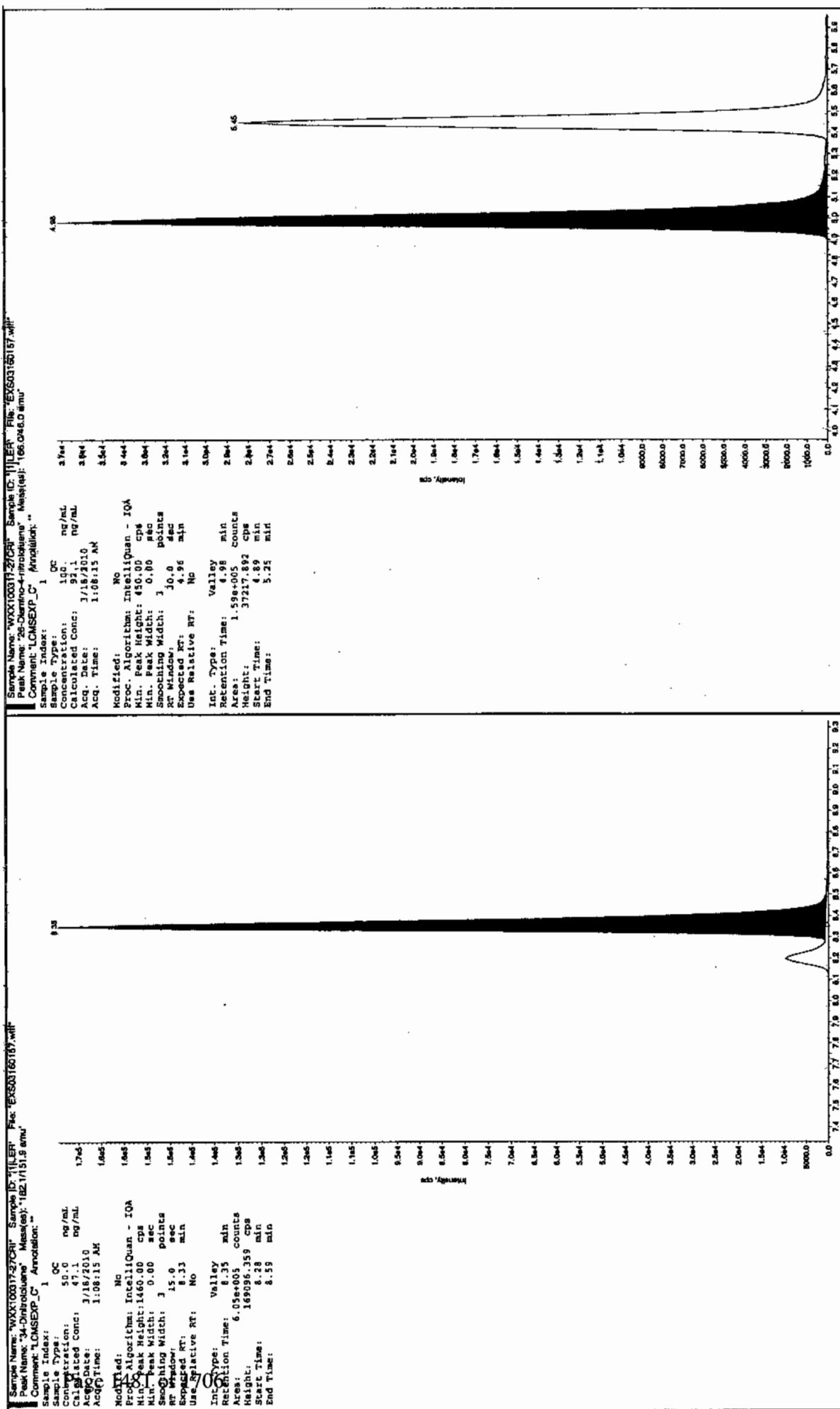
Column used to flag Recovery outside of Limits

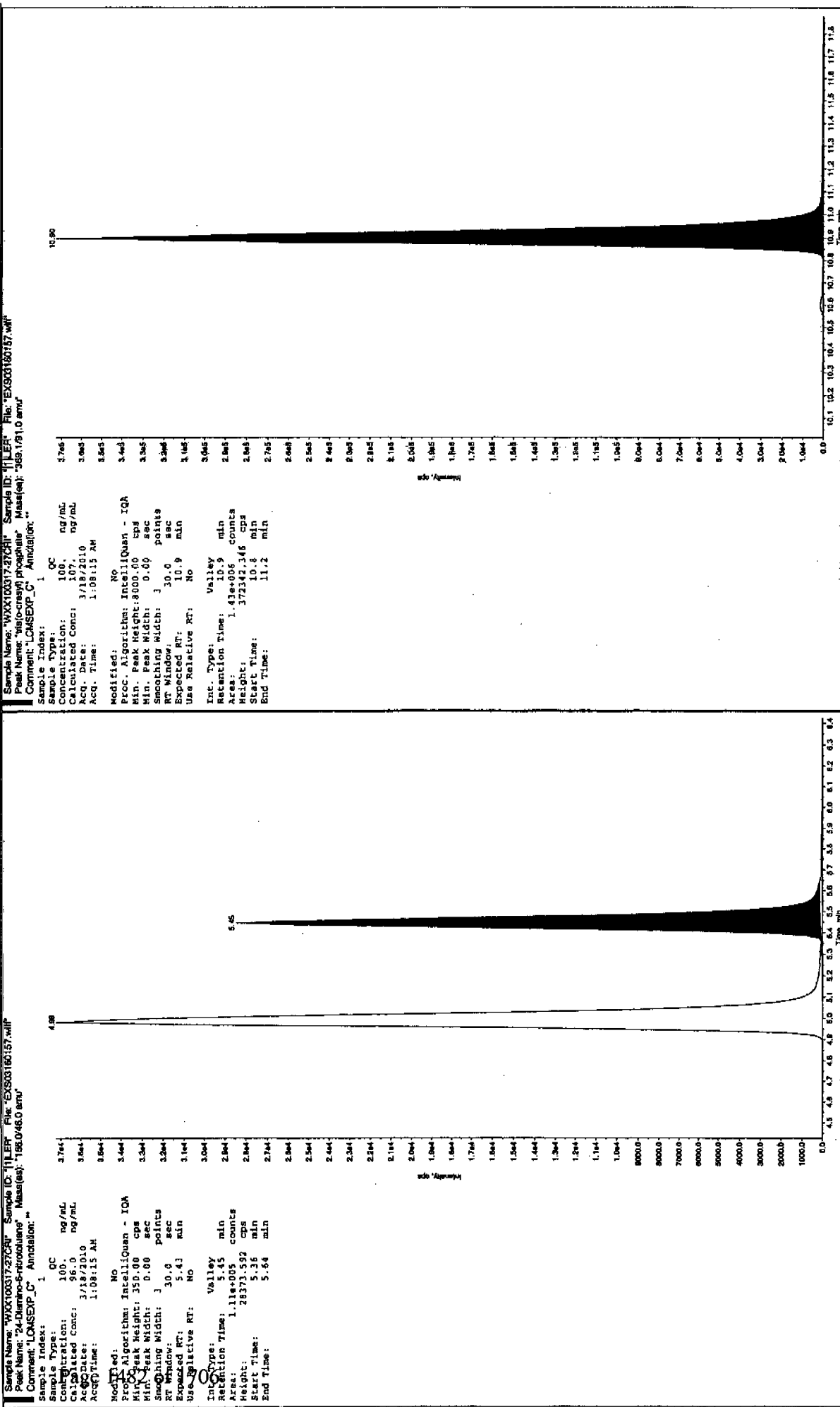
* Value outside of Recovery Limits

run 210/10



run 032/10





7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160168.wiff

Analysis Date: 18-MAR-10 04:00

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	529	106	
2,6-Diamino-4-nitrotoluene	500	539	108	
3,4-Dinitrotoluene	250	246	99	
3,5-Dinitroaniline	500	490	98	
TATB	500	549	110	
tris(o-cresyl) phosphate	500	525	105	

Recovery Limits:

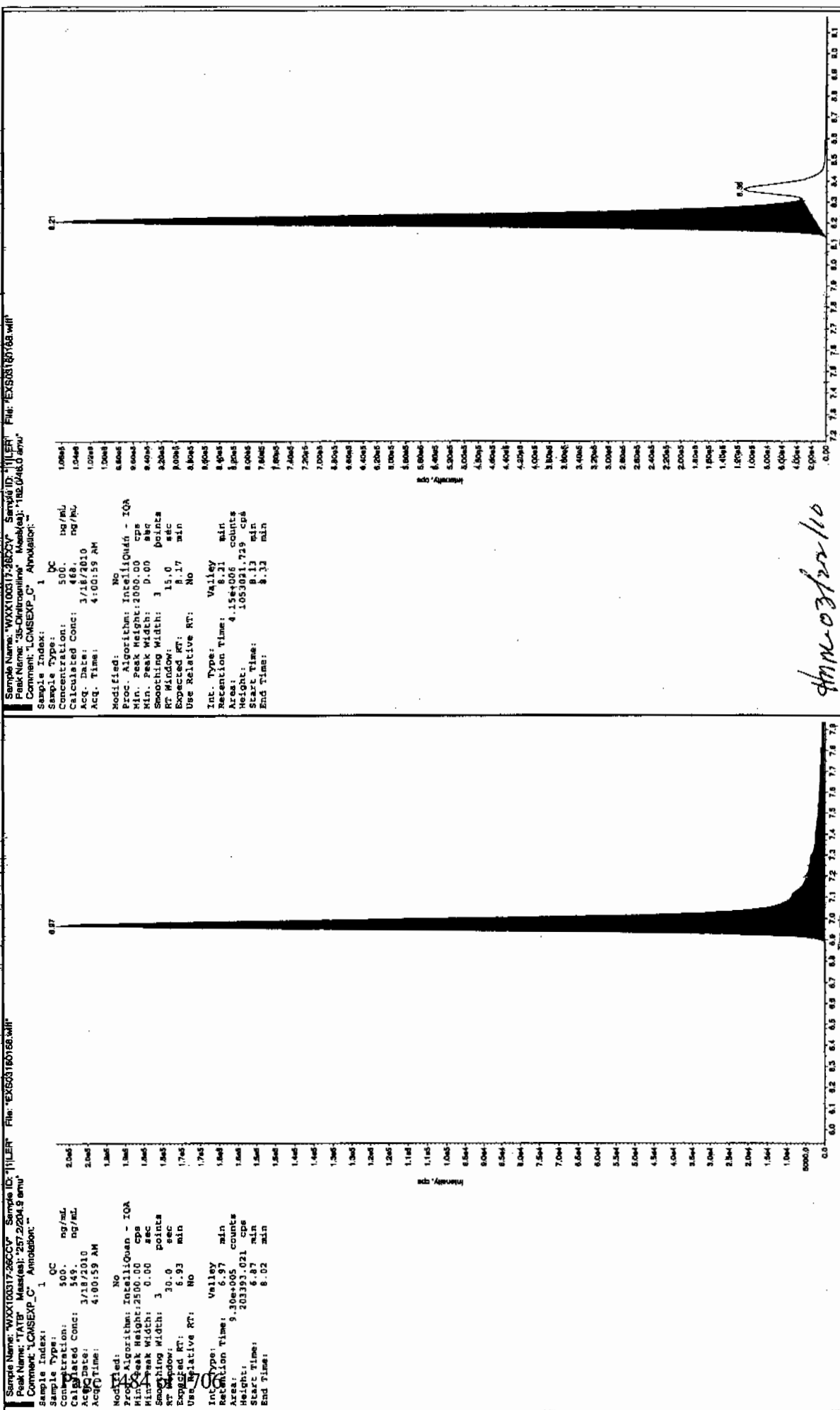
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

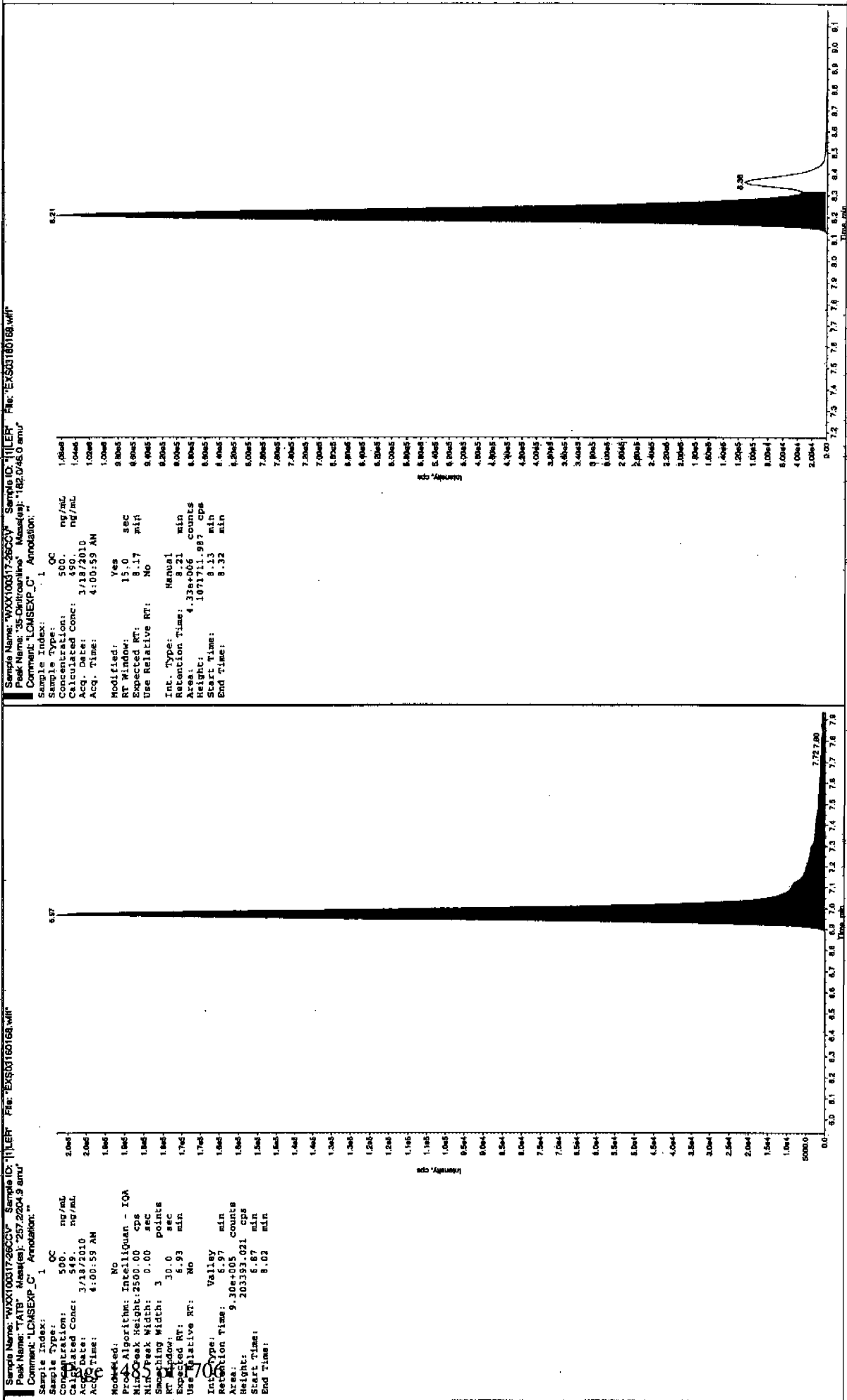
Column used to flag Recovery outside of Limits

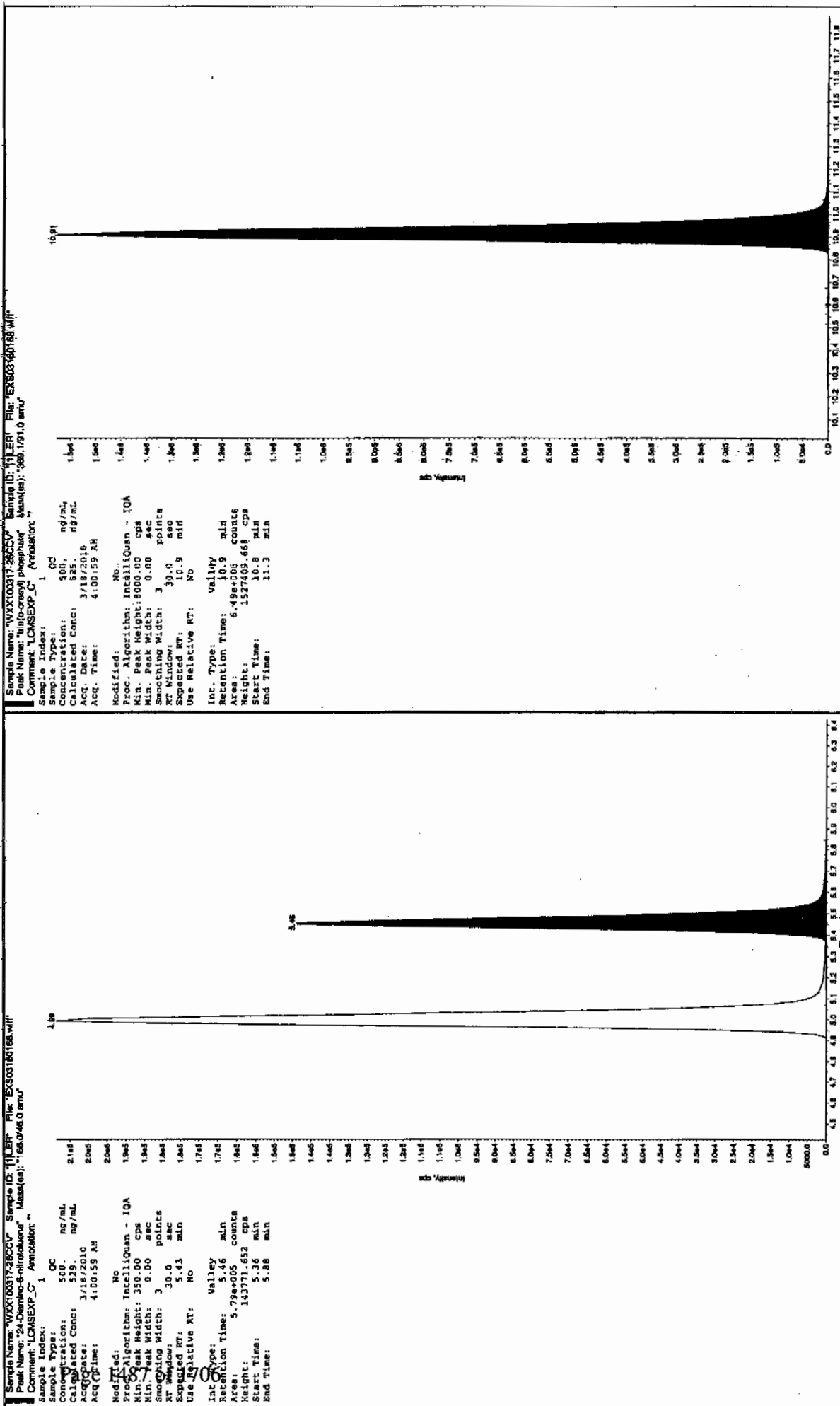
* Value outside of Recovery Limits

Before Jan 7/28/10



after scan 819110





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160170.wiff

Analysis Date: 18-MAR-10 04:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	48.9	98	
3,5-Dinitroaniline	100	93.5	94	
TATB	100	114	114	
tris(o-cresyl) phosphate	100	106	106	
2,4-Diamino-6-nitrotoluene	100	111	111	
2,6-Diamino-4-nitrotoluene	100	117	117	

Recovery Limits:

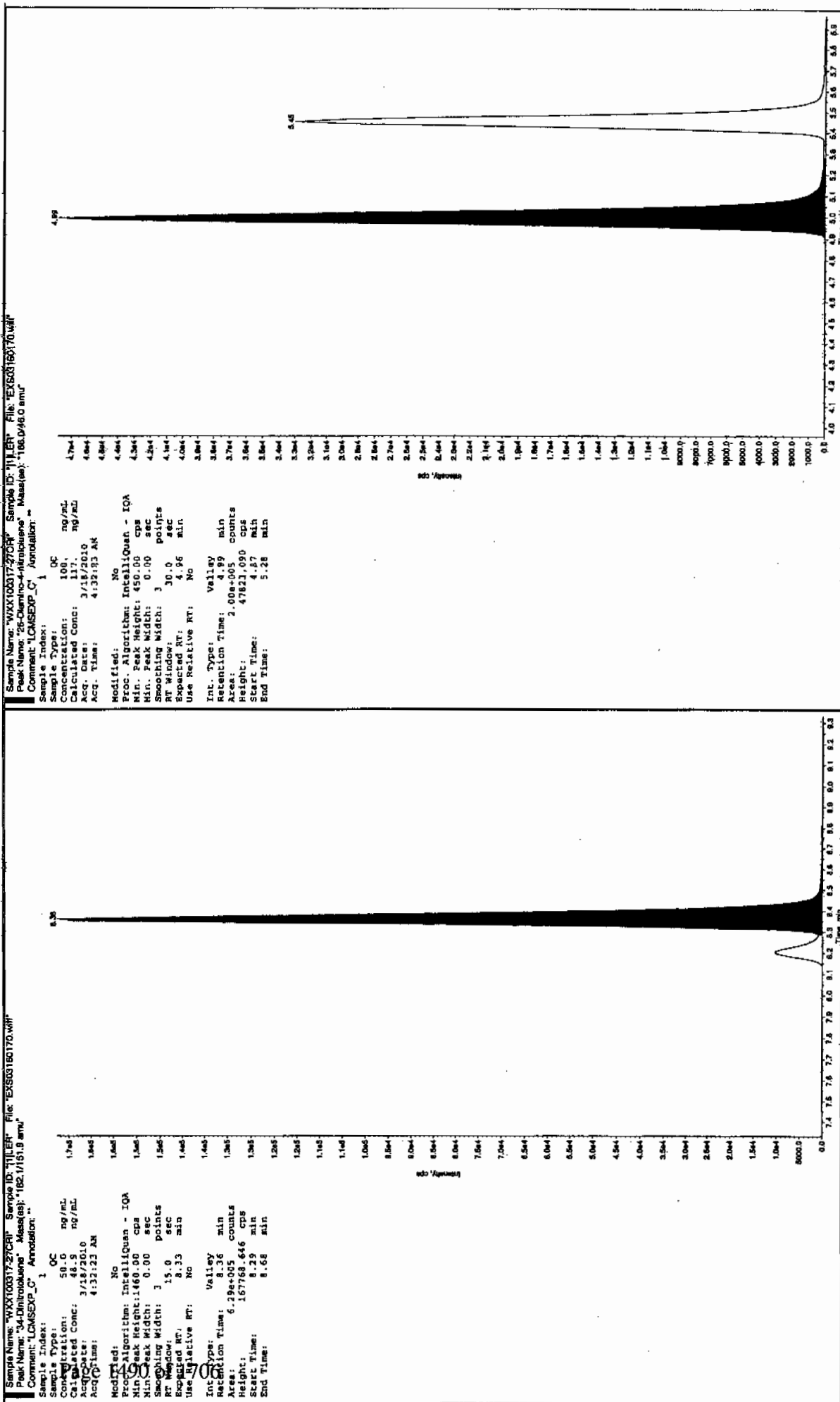
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

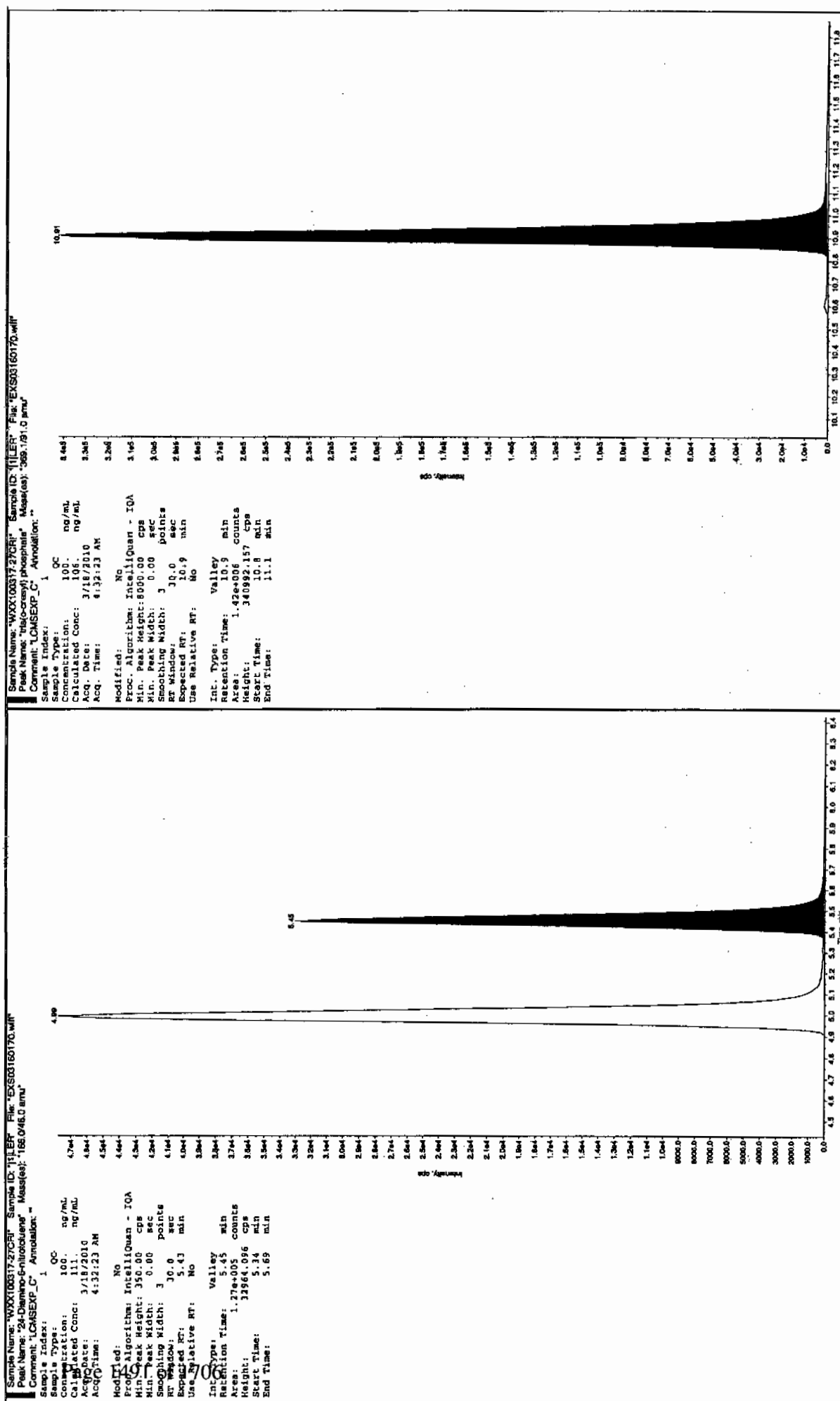
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits







7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160175.wiff

Analysis Date: 18-MAR-10 05:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	589	118	
2,6-Diamino-4-nitrotoluene	500	578	116	
3,4-Dinitrotoluene	250	231	93	
3,5-Dinitroaniline	500	498	100	
TATB	500	562	112	
tris(o-cresyl) phosphate	500	539	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

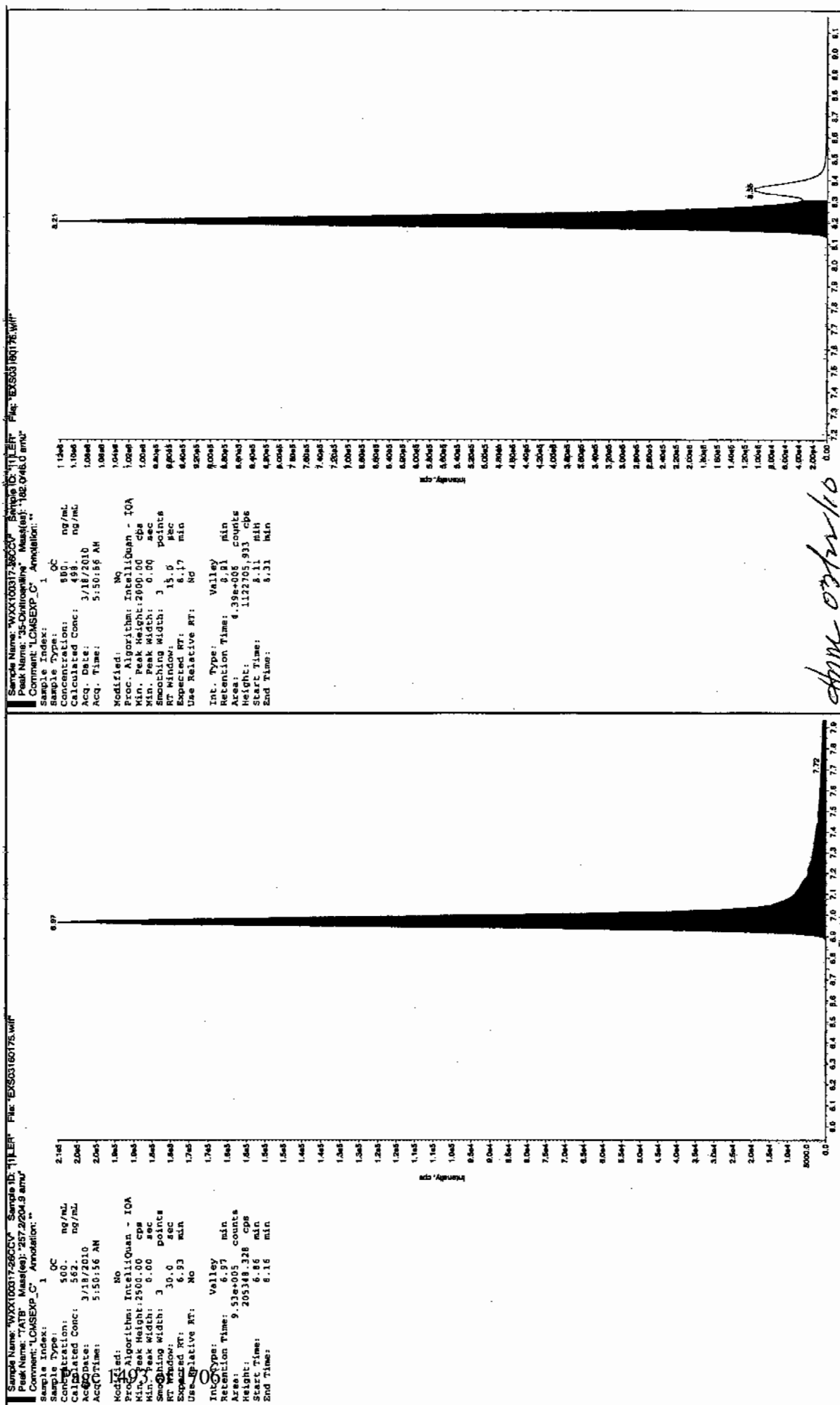
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

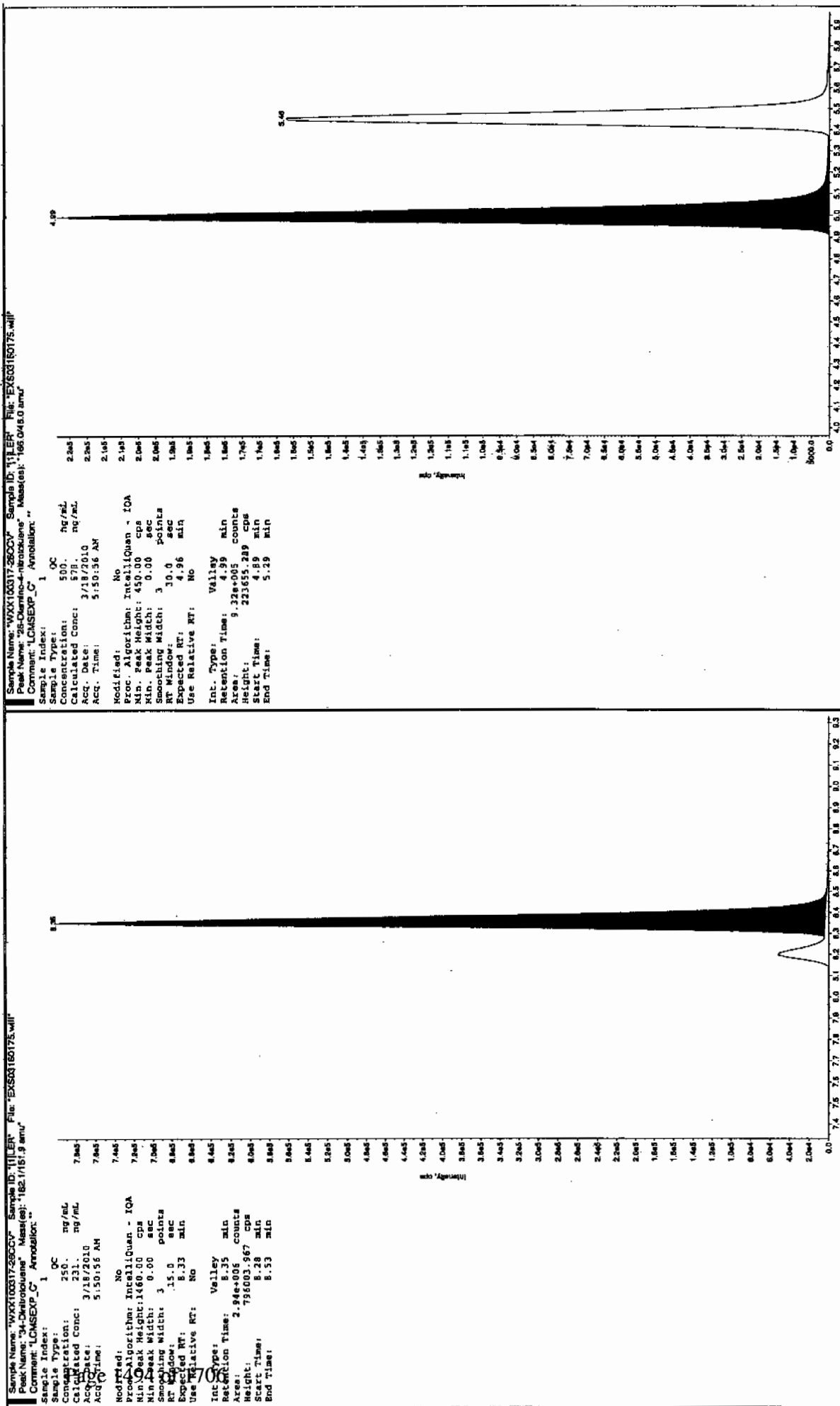
Column used to flag Recovery outside of Limits

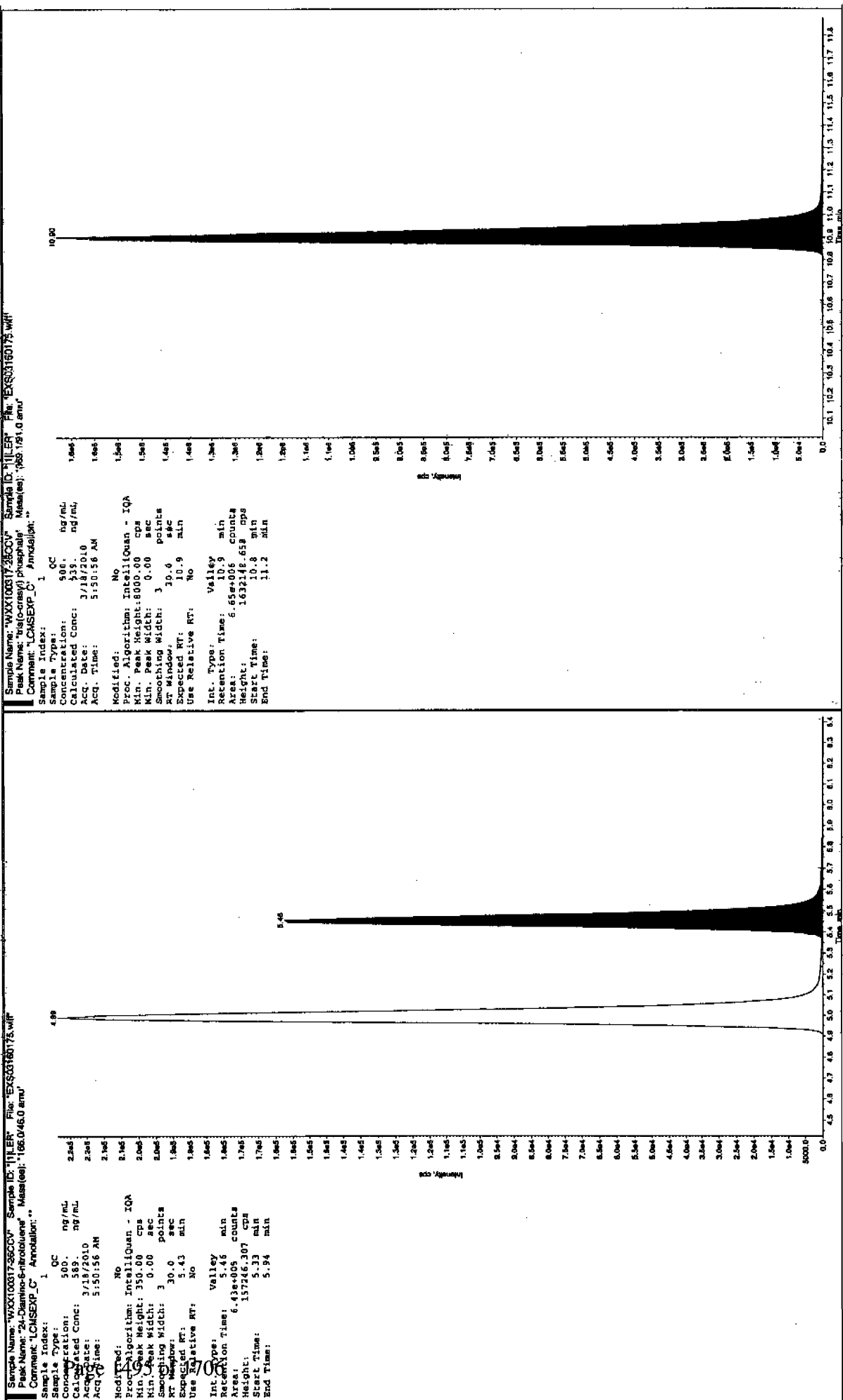
* Value outside of Recovery Limits

San 3/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-2121

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160177.wiff

Analysis Date: 18-MAR-10 06:22

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	49.1	98	
3,5-Dinitroaniline	100	95	95	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	109	109	

Recovery Limits:

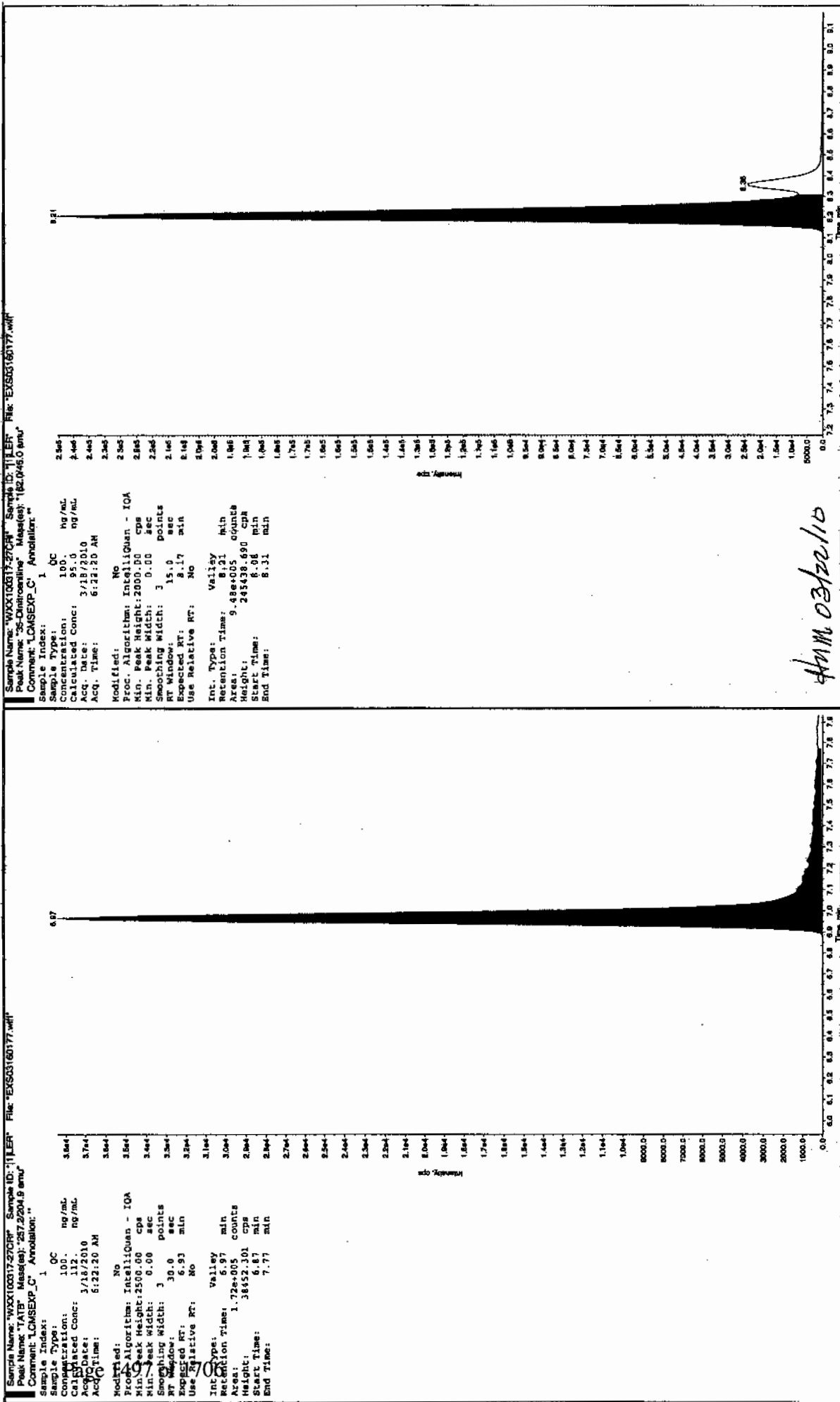
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

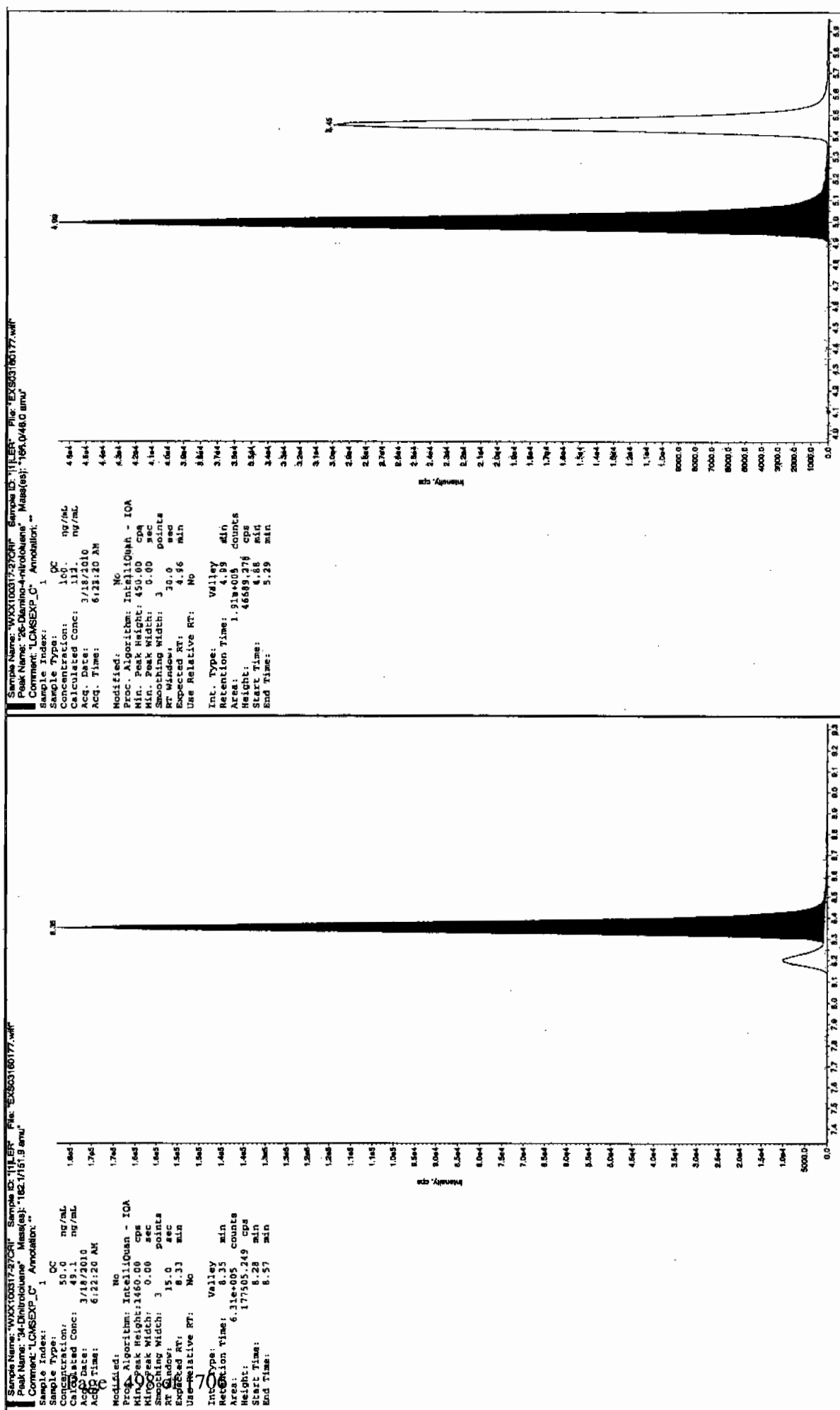
Column used to flag Recovery outside of Limits

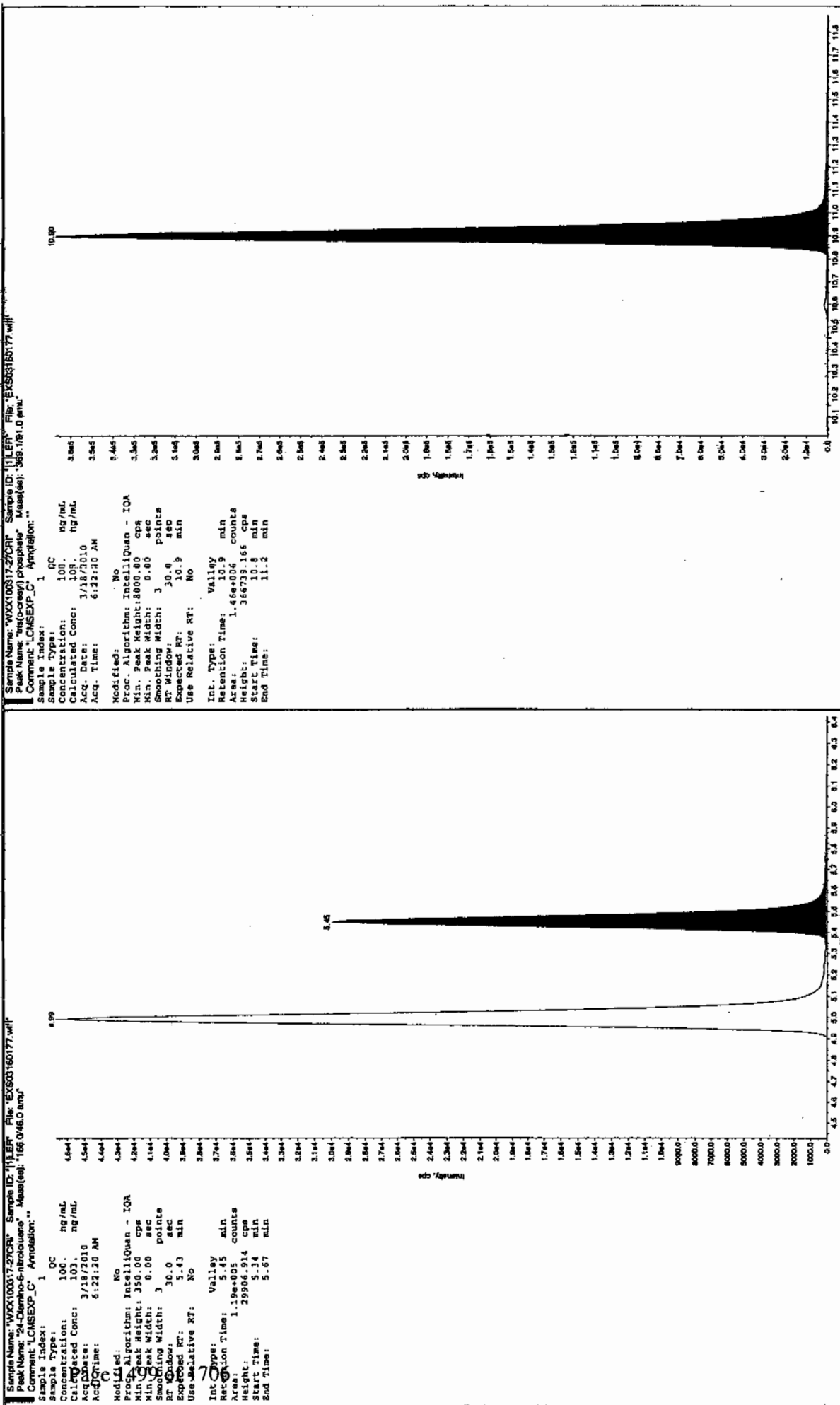
* Value outside of Recovery Limits

for 3/19/10



for 03/20/10





QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 958637

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055940

Sample Amount 2

Moisture:

Amount Units g

Date Received: 27-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323050a

Date Analyzed: 24-MAR-10 09:14

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010
Calibration: C:\MASSLYNX\New_Exp.PRO\CurveDB\032310expa.cdb, Time: Wed Mar 24 09:29:42 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323050a

Date: 24-Mar-2010

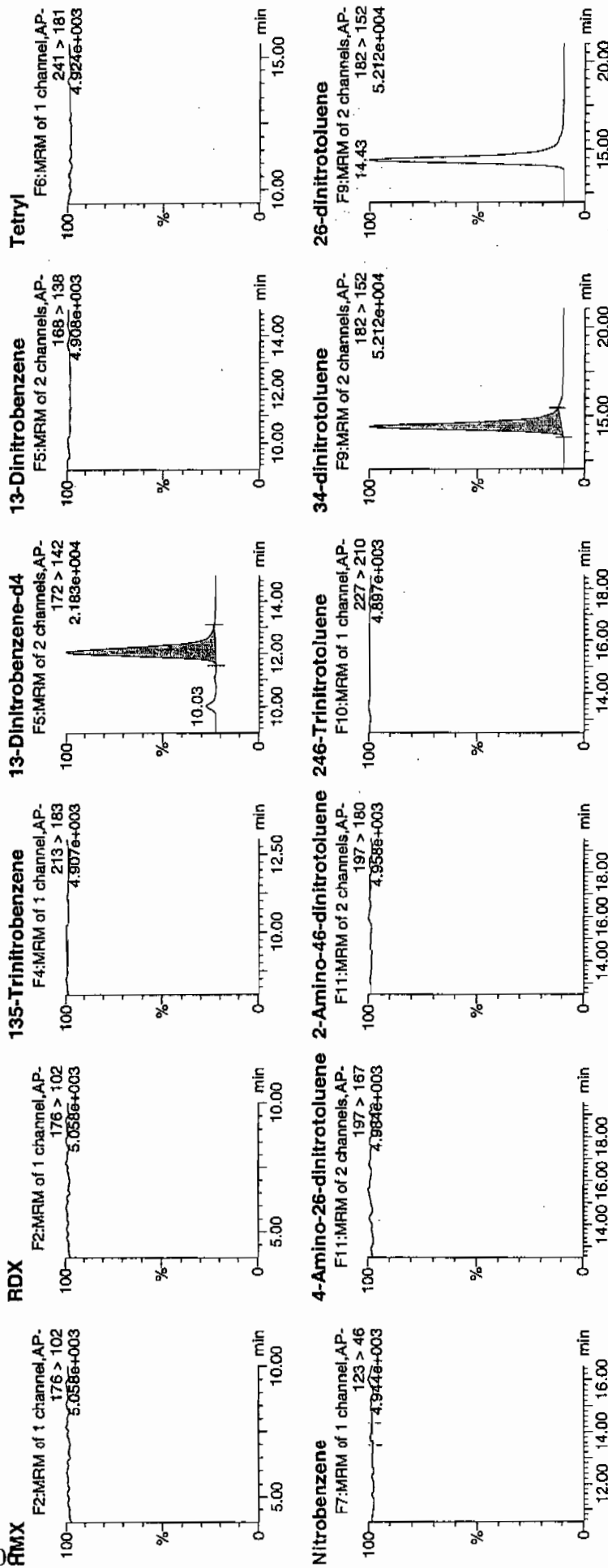
Time: 09:14:00

ID: 1202055940

Uial: 2:5,A

1007
3/25/10

1400/958640 / 8000 / 113 / 21

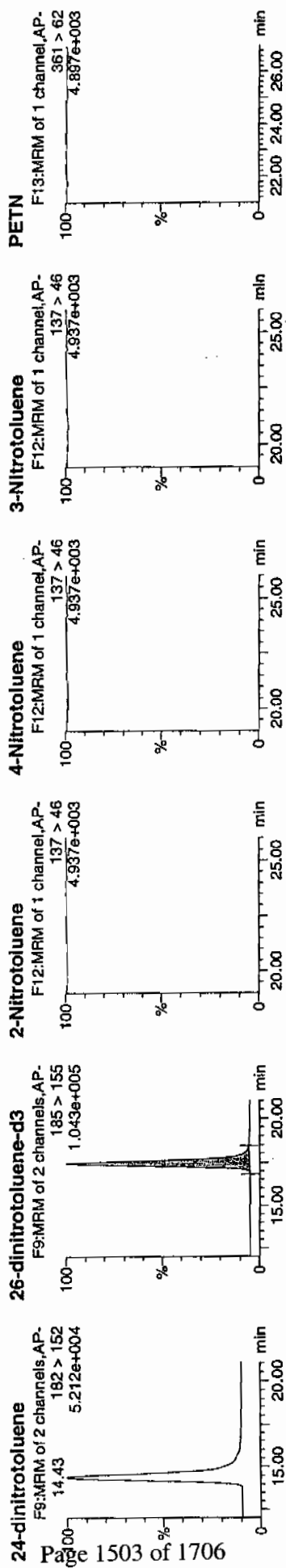


1007
3/25/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010



ID	Name	Trace	RT	Area	Area	Area	Address	Response	Flags	Mod Date	Mod Time	Mod	Mod	Mod	Mod
1202055940	HMX	176 > 102					6876.399								
1202055940	RDX	176 > 102					6876.399								
1202055940	135-Trinitrobenzene	213 > 183					6876.399								
1202055940	13-Dinitrobenzene-d4	172 > 142	12.07	6876.399			6876.399	bb				624.6420	124.9	24.9	457.9
1202055940	13-Dinitrobenzene	168 > 138					6876.399								
1202055940	Tetryl	241 > 181					6876.399								
1202055940	Nitrobenzene	123 > 46					6876.399			MM-	25-Mar-10	09:49:28			
1202055940	4-Amino-26-dinitrotoluene	197 > 167					39172.199								
1202055940	2-Amino-46-dinitrotoluene	197 > 180					39172.199								
1202055940	246-Trinitrotoluene	227 > 210					39172.199								
1202055940	34-dinitrotoluene	182 > 152	14.43	22474.346			39172.199	286.866	bb			270.9137	108.4	8.4	1185.7
1202055940	26-dinitrotoluene	182 > 152					39172.199								
1202055940	24-dinitrotoluene	182 > 152					39172.199								
1202055940	26-dinitrotoluene-d3	185 > 155	17.42	39172.199			39172.199	39172.199	bb			568.8578	113.8	13.8	2927.8
1202055940	2-Nitrotoluene	137 > 46					39172.199								
1202055940	4-Nitrotoluene	137 > 46					39172.199								
1202055940	3-Nitrotoluene	137 > 46					39172.199								
1202055940	PETN	361 > 62					39172.199								

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 958637

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055940

Sample Amount 2

Moisture:

Amount Units g

Date Received: 27-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160147.wiff

Date Analyzed: 17-MAR-10 22:31

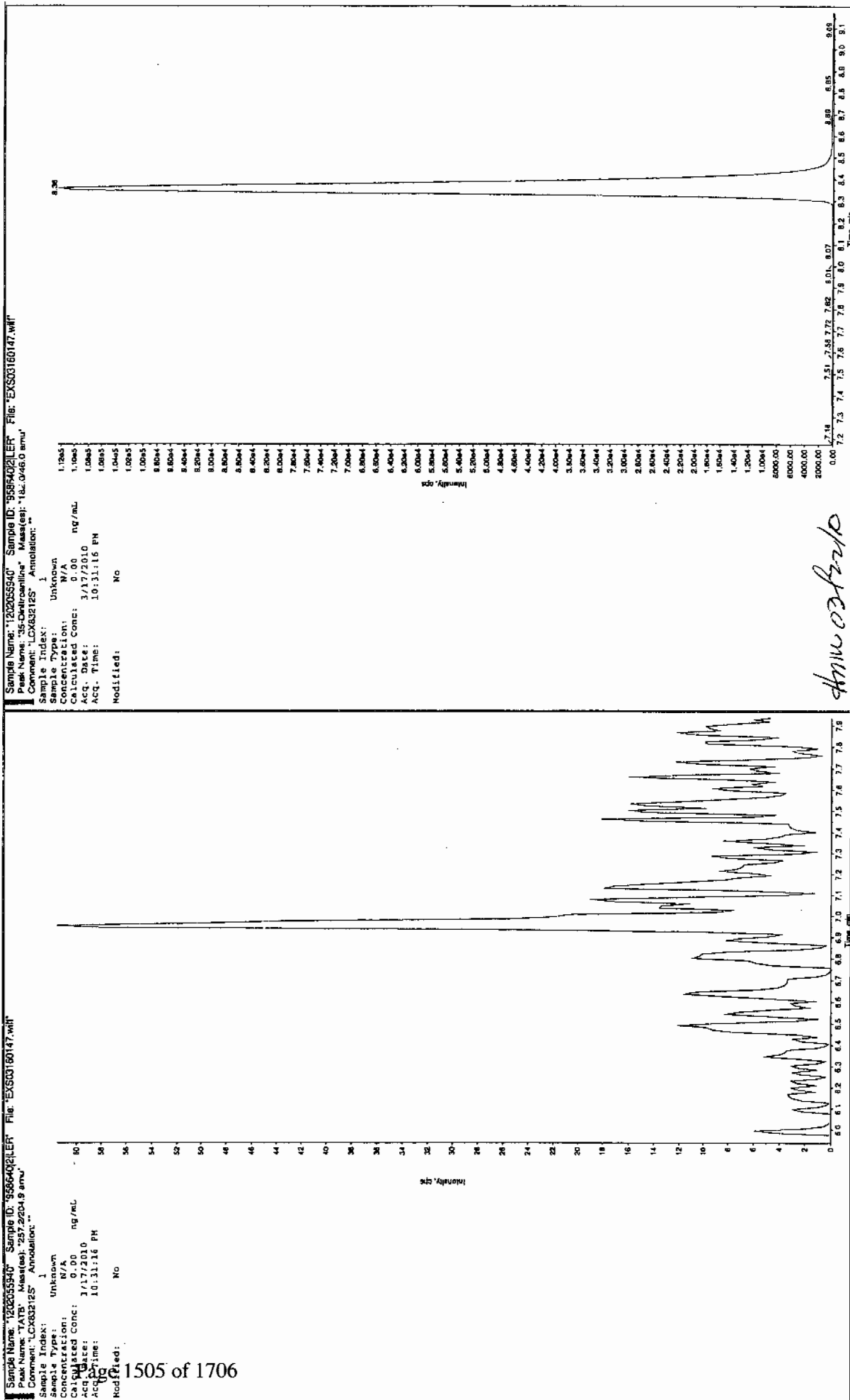
Units: ug/kg

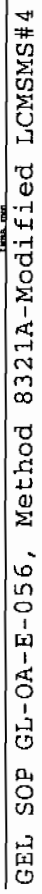
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

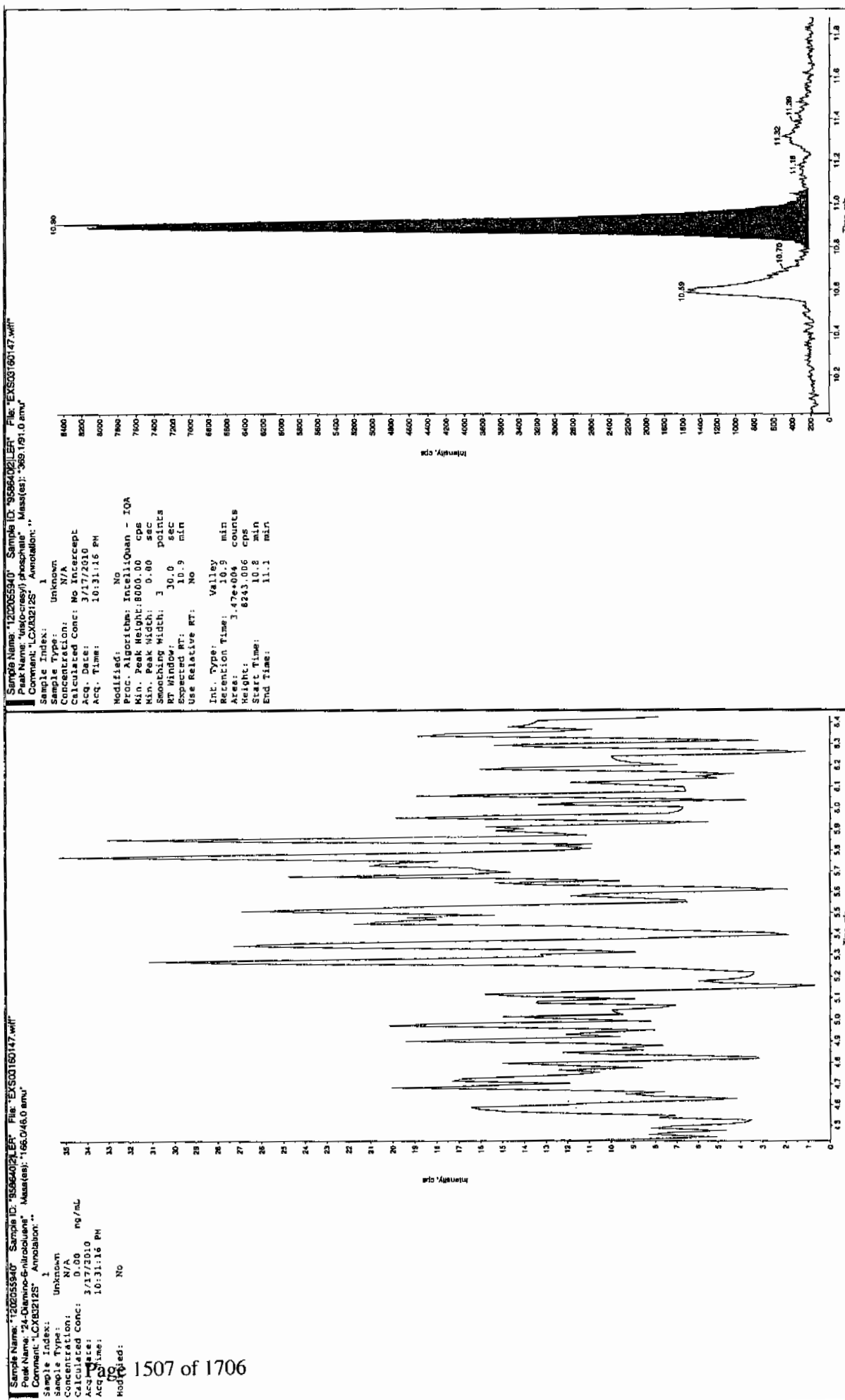
*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amoun		Factor

See 3/19/10







1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 958637

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055941

Sample Amount 2

Moisture:

Amount Units g

Date Received: 27-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323051a

Date Analyzed: 24-MAR-10 09:43

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4770	
121-14-2	2,4-Dinitrotoluene	5020	
121-82-4	RDX	5240	
19406-51-0	4-Amino-2,6-dinitrotoluene	5070	
2691-41-0	HMX	4870	
35572-78-2	2-Amino-4,6-dinitrotoluene	5160	
479-45-8	Tetryl	2700	
606-20-2	2,6-Dinitrotoluene	4810	
78-11-5	PETN	5300	
88-72-2	o-Nitrotoluene	4460	
98-95-3	Nitrobenzene	4520	
99-08-1	m-Nitrotoluene	4550	
99-35-4	1,3,5-Trinitrobenzene	4370	
99-65-0	m-Dinitrobenzene	4820	
99-99-0	p-Nitrotoluene	4870	

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

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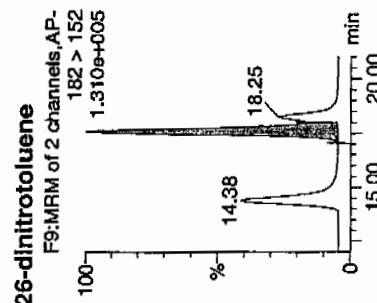
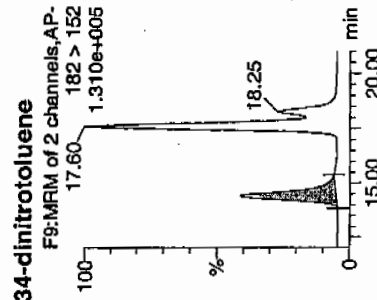
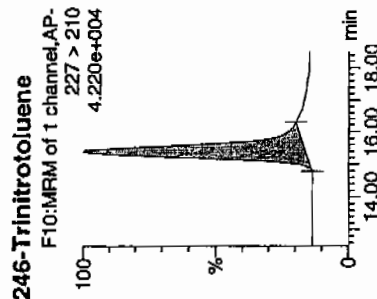
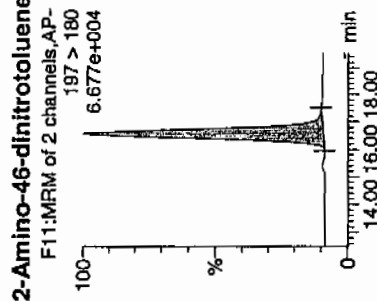
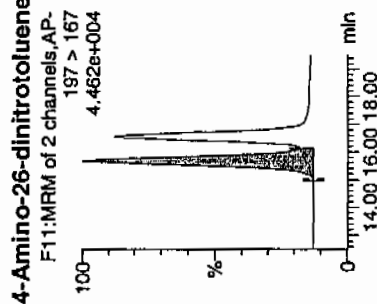
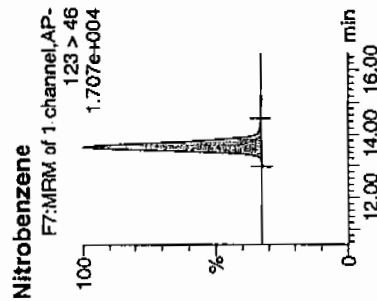
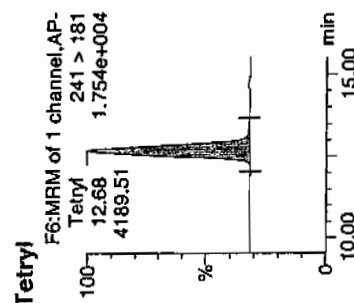
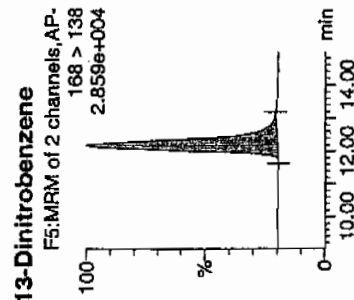
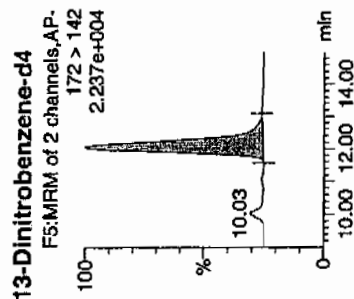
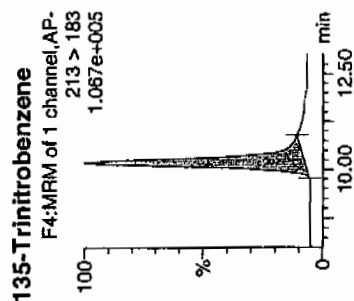
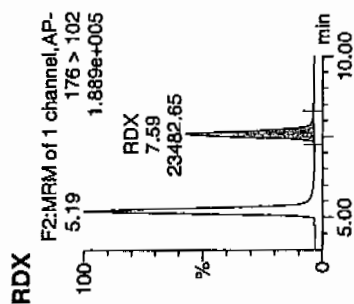
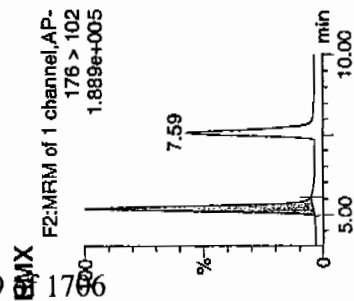
Date: 24-Mar-2010

Time: 09:43:36

ID: 1202055941

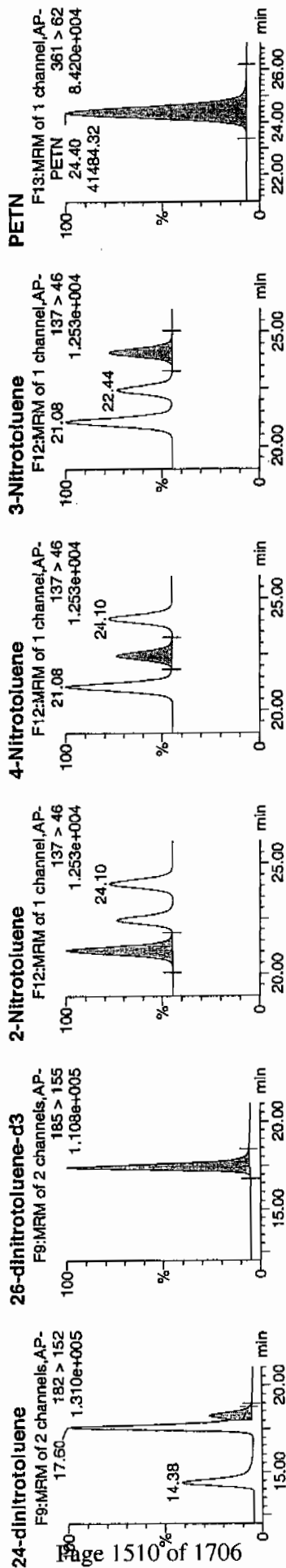
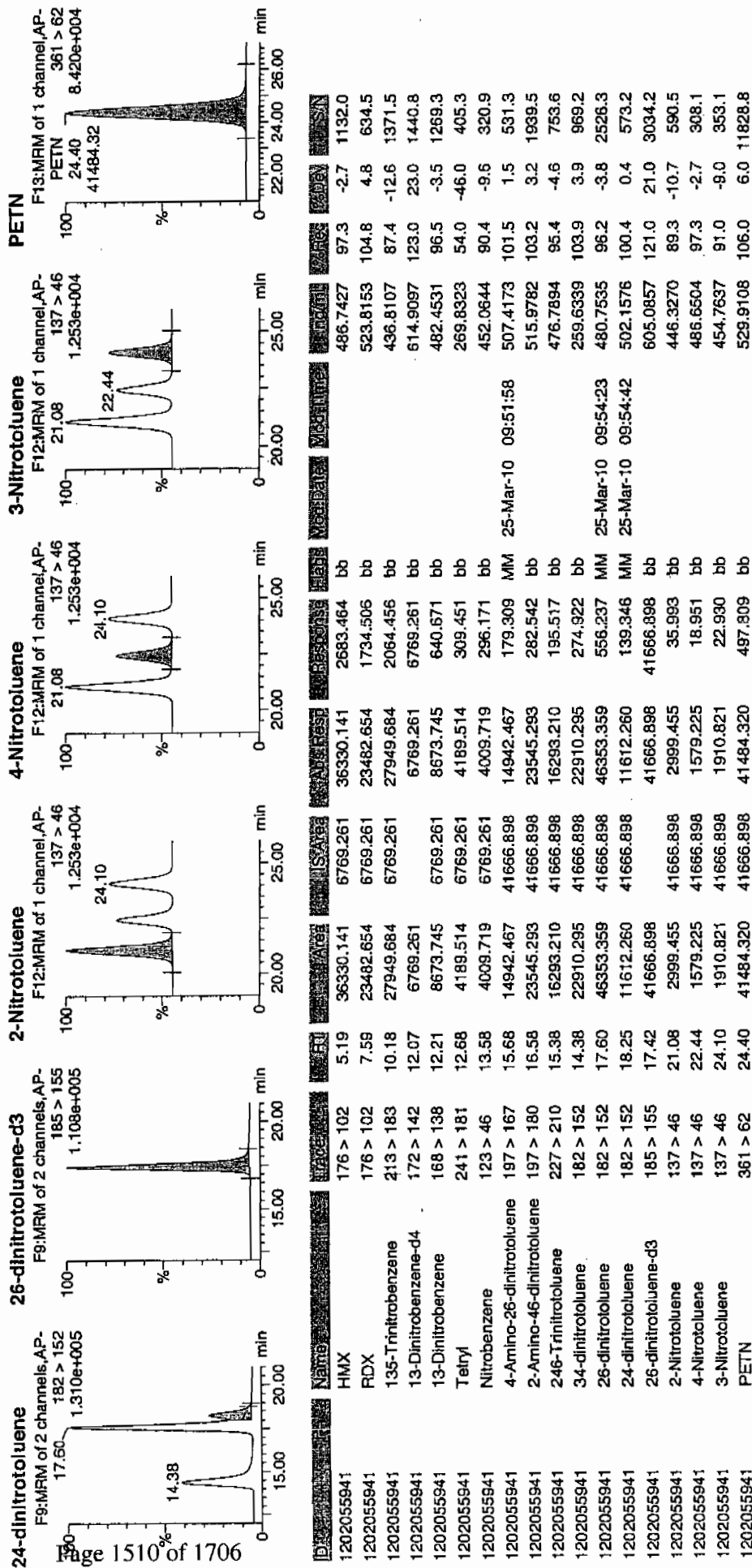
Vial: 2:5.B

209



Ham 03/30/10

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA1.qid, Time: Thu Mar 25 09:56:44 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 958637

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055941

Sample Amount 2

Moisture:

Amount Units g

Date Received: 27-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160148.wiff

Date Analyzed: 17-MAR-10 22:46

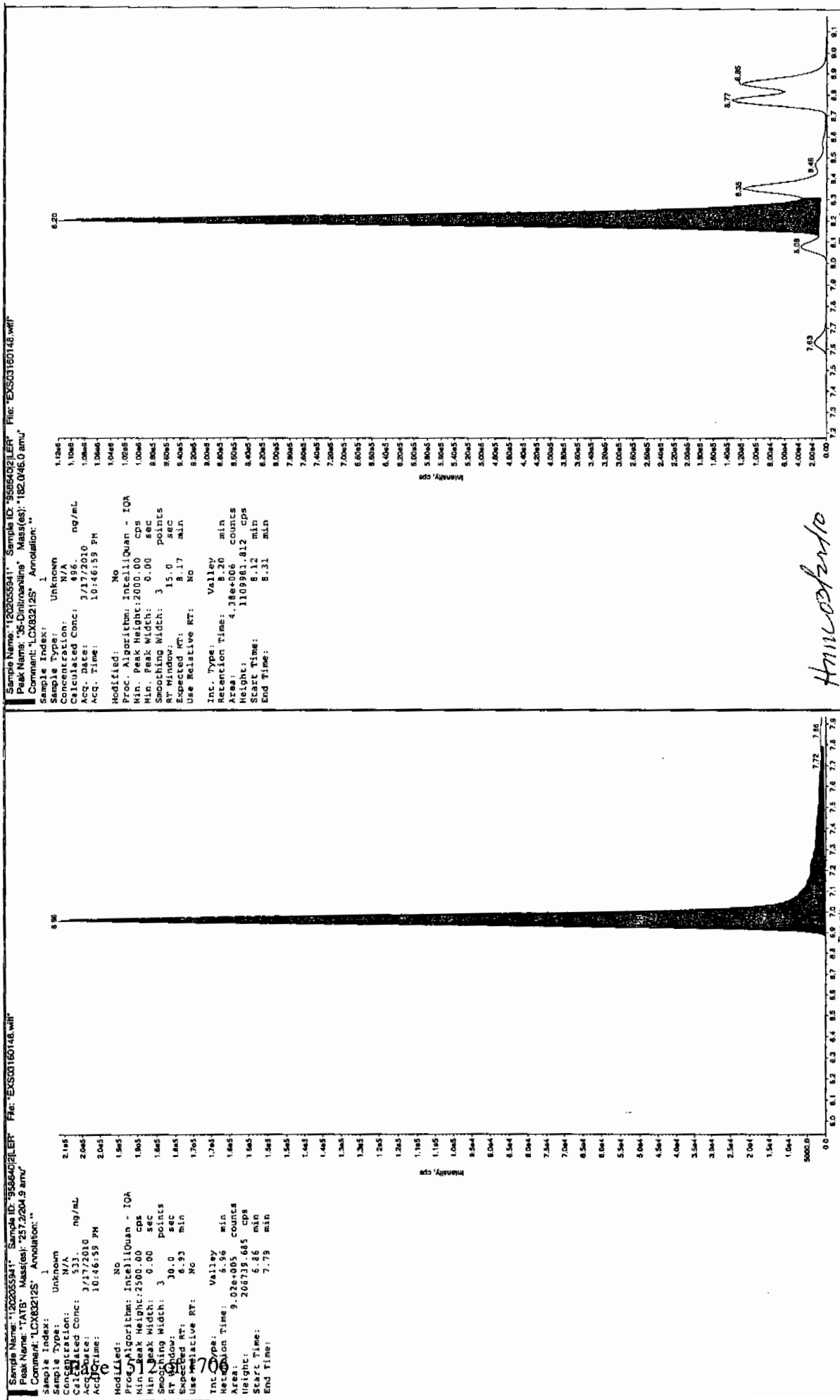
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5330	
59229-75-3	2,6-Diamino-4-nitrotoluene	5300	
618-87-1	3,5-Dinitroaniline	4960	
6629-29-4	2,4-Diamino-6-nitrotoluene	4930	
78-30-8	tris(o-cresyl) phosphate	5310	

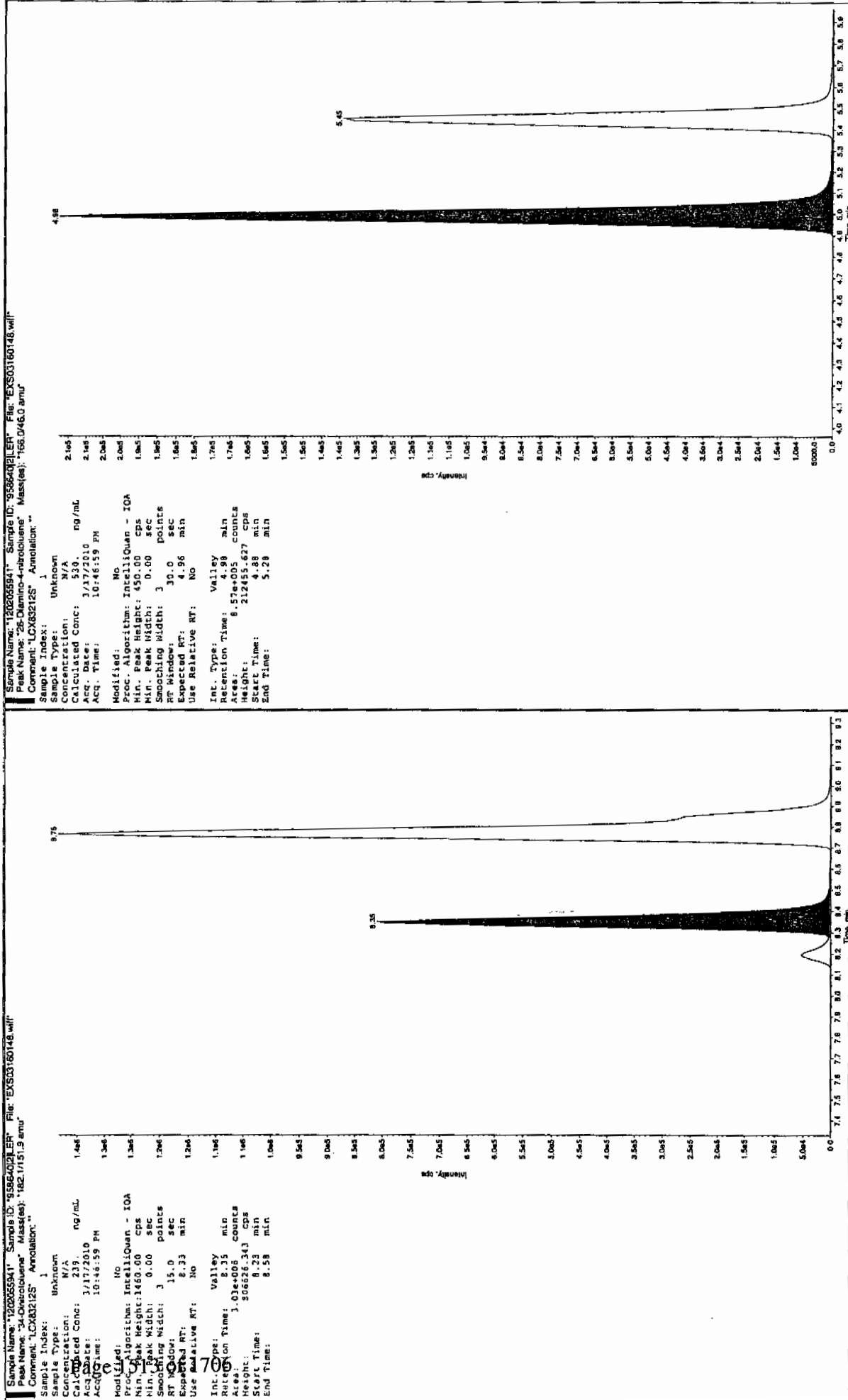
*Concentration =

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

Jan 31/9/10

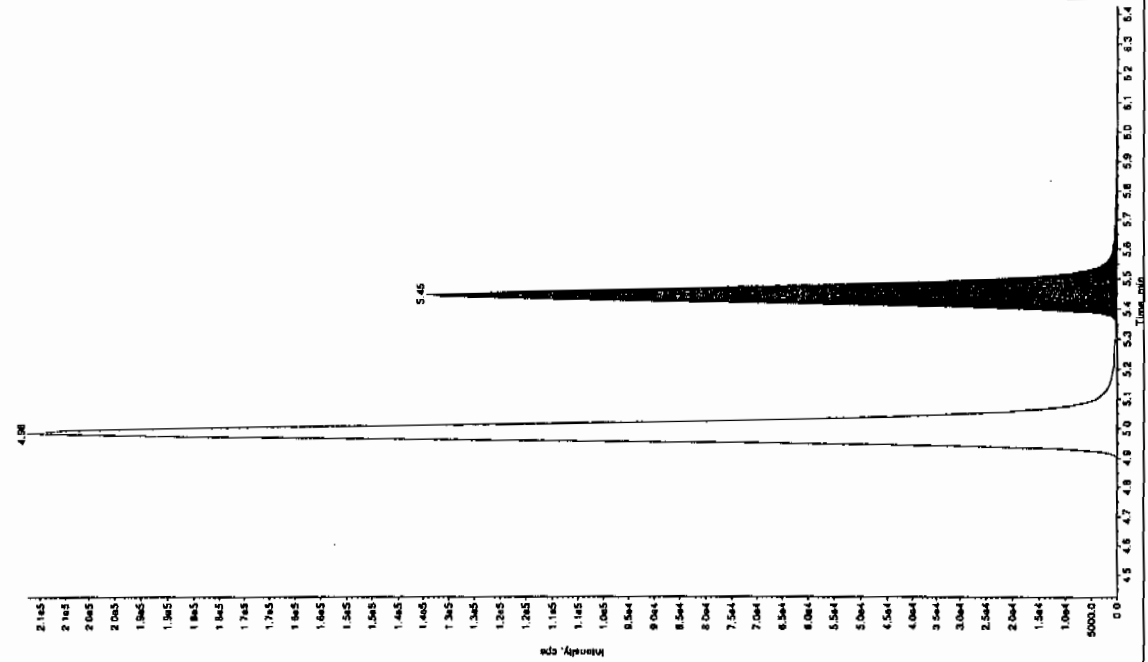


Amurco/Ardo



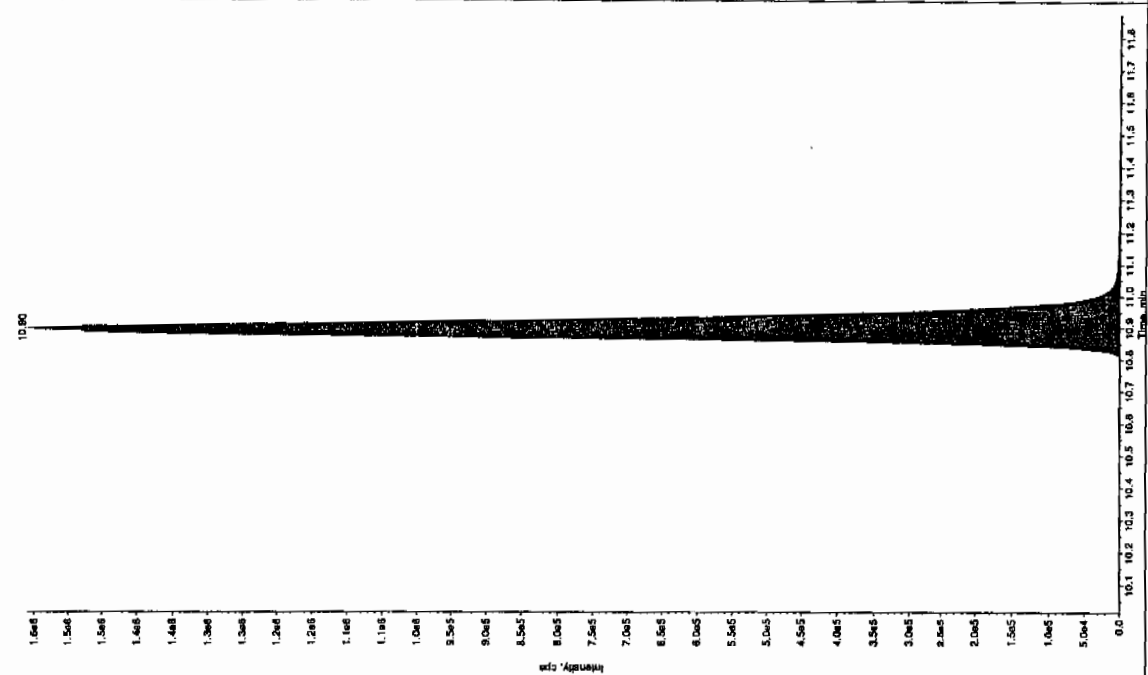
Sample Name: "1202055941" Sample ID: "9586402" File: "EXS03180148.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.048.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 511. ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 10:46:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 points
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.45 min
 Area: 5.40e+005 counts
 Height: 134068.436 cps
 Start Time: 5.32 min
 End Time: 5.88 min



Sample Name: "1202055941" Sample ID: "9586402" File: "EXS03180148.wif"
 Peak Name: "triso-cresyl phosphate" Mass(es): "386.141.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 511. ng/mL
 Acq. Date: 3/17/2010
 Acq. Time: 10:46:59 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.60 sec
 Smoothing Width: 3 points
 RT Window: 30.0 points
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 6.55e+006 counts
 Height: 1558875.610 cps
 Start Time: 10.8 min
 End Time: 11.2 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405(248197001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055942

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323064a

Date Analyzed: 24-MAR-10 16:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4230	
121-14-2	2,4-Dinitrotoluene	4750	
121-82-4	RDX	5050	
19406-51-0	4-Amino-2,6-dinitrotoluene	4950	
2691-41-0	HMX	5160	
35572-78-2	2-Amino-4,6-dinitrotoluene	5160	
479-45-8	Tetryl	1300	
606-20-2	2,6-Dinitrotoluene	4750	
78-11-5	PETN	5370	
88-72-2	o-Nitrotoluene	4670	
98-95-3	Nitrobenzene	4170	
99-08-1	m-Nitrotoluene	4890	
99-35-4	1,3,5-Trinitrobenzene	4140	
99-65-0	m-Dinitrobenzene	4710	
99-99-0	p-Nitrotoluene	5040	

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNXNew_Exp.PRO\032310expA1.qld, Time: Thu Mar 25 09:56:44 2010

Name: C:\MASSLYNXNEW_EXP.PRO\Data\EXP0323064a

Date: 24-Mar-2010

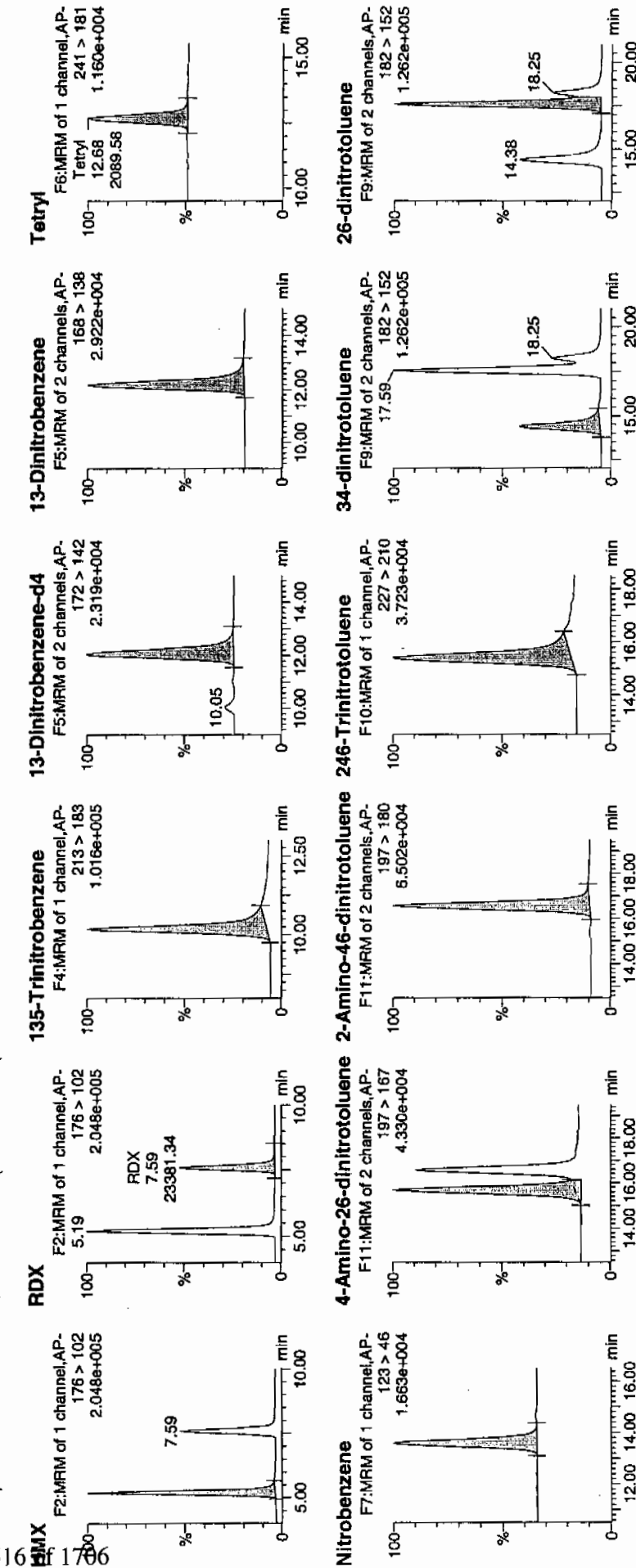
Time: 16:07:18

ID: 1202055942

Val: 2:6.D

4477
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Law 958640 / 248197001 us / 2-



4477
03/30/10

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405(248197001MS)

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055942

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160159.wiff

Date Analyzed: 18-MAR-10 01:39

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4920	
59229-75-3	2,6-Diamino-4-nitrotoluene	4600	
618-87-1	3,5-Dinitroaniline	4550	
6629-29-4	2,4-Diamino-6-nitrotoluene	3410	
78-30-8	tris(o-cresyl) phosphate	5280	

*Concentration =

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

den 31/10/10

Sample Name: "1202055942" Sample ID: "95864021LER" File: "EXS03160159.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 492. ng/mL

Acq. Date: 3/18/2010

Acq. Time: 1:39:38 AM

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: 6.93 min

Use Relative RT: No

Int. Type: Valley

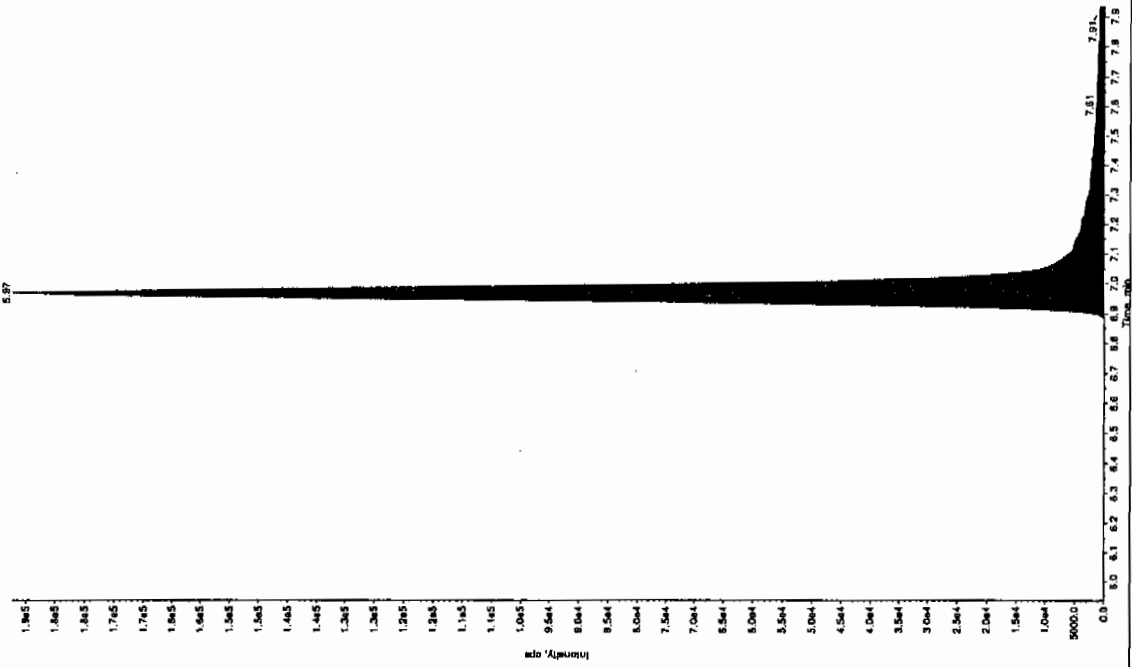
Retention Time: 6.97 min

Area: 8.30e+005 counts

Height: 16791.806 cps

Start Time: 6.85 min

End Time: 8.24 min



Sample Name: "1202055942" Sample ID: "95864021LER" File: "EXS03160159.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: 455. ng/mL

Acq. Date: 3/18/2010

Acq. Time: 1:39:38 AM

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: 8.17 min

Use Relative RT: No

Int. Type: Valley

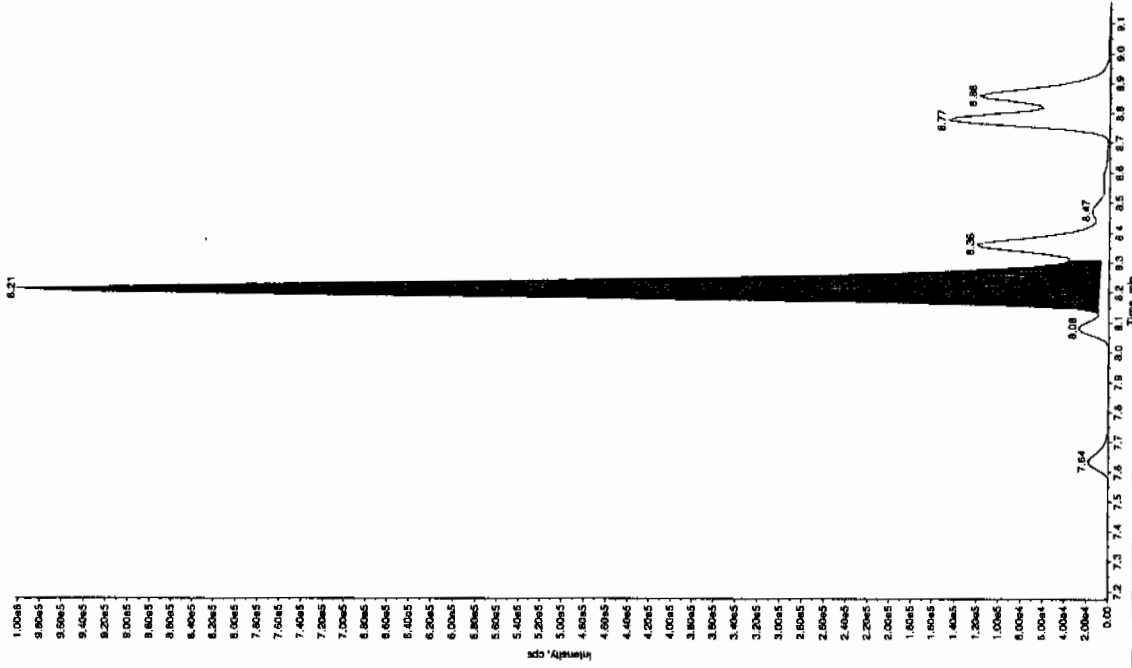
Retention Time: 8.21 min

Area: 4.04e+006 counts

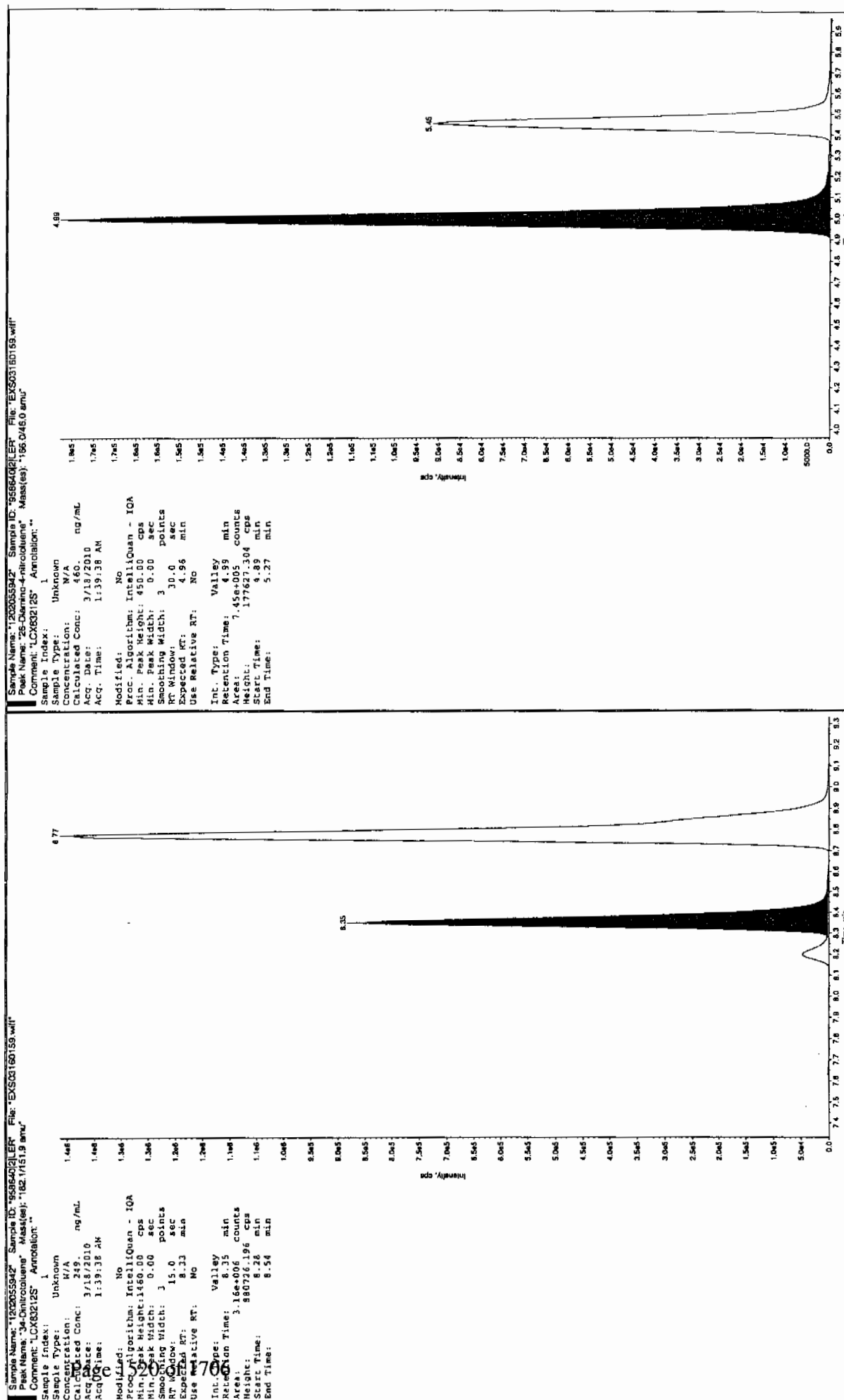
Height: 99362.769 cps

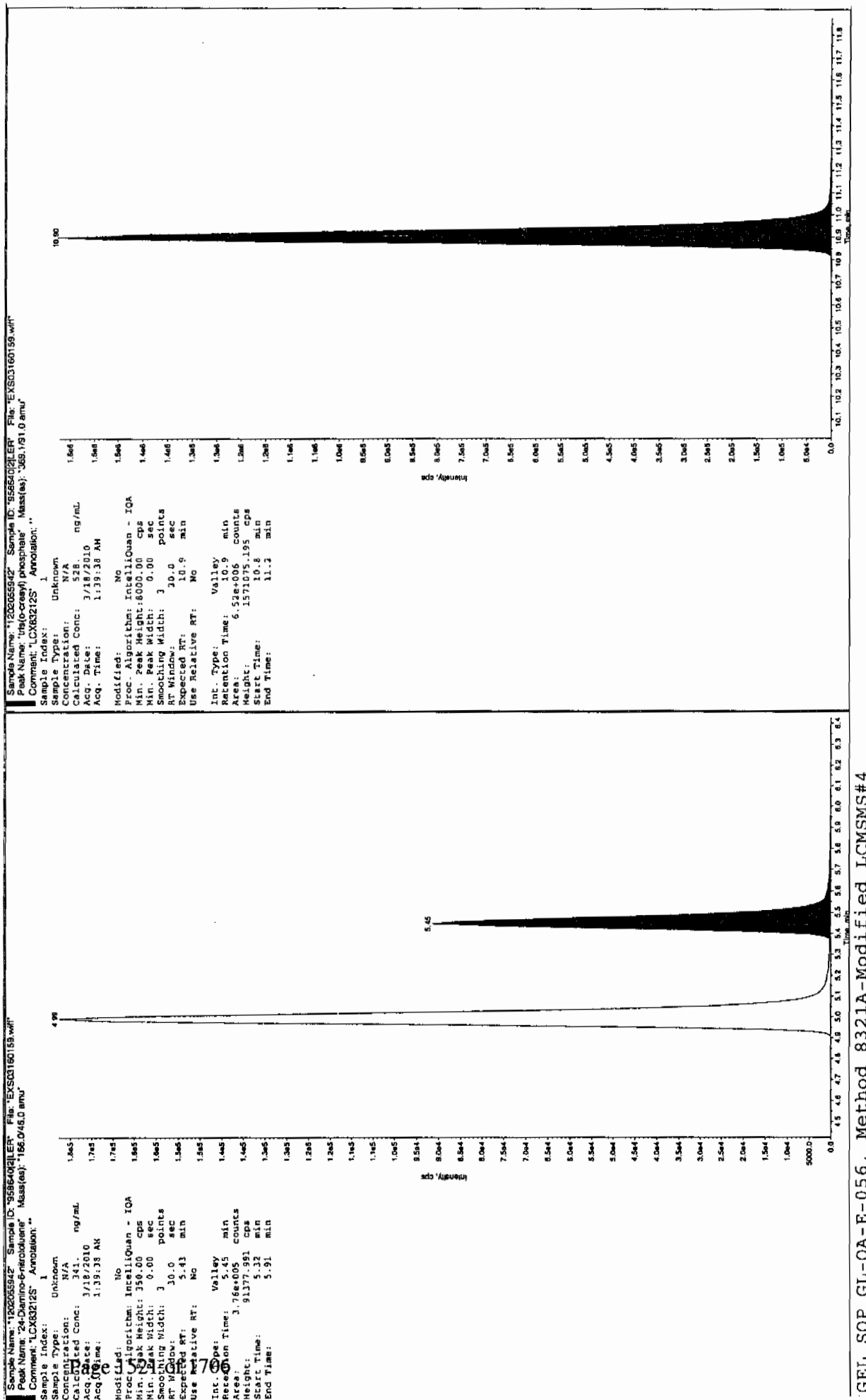
Start Time: 8.11 min

End Time: 8.31 min



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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405(248197001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055943

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0326059a

Date Analyzed: 27-MAR-10 19:14

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4860	
121-14-2	2,4-Dinitrotoluene	4980	
121-82-4	RDX	4950	
19406-51-0	4-Amino-2,6-dinitrotoluene	5000	
2691-41-0	HMX	5080	
35572-78-2	2-Amino-4,6-dinitrotoluene	5170	
479-45-8	Tetryl	1210	
606-20-2	2,6-Dinitrotoluene	4760	
78-11-5	PETN	4840	
88-72-2	o-Nitrotoluene	4420	
98-95-3	Nitrobenzene	4260	
99-08-1	m-Nitrotoluene	4210	
99-35-4	1,3,5-Trinitrobenzene	4120	
99-65-0	m-Dinitrobenzene	4660	
99-99-0	p-Nitrotoluene	4140	

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032610expA1.qld, Time: Sun Mar 28 12:50:31 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0326059a

Date: 27-Mar-2010

Time: 19:14:29

ID: 1202055943

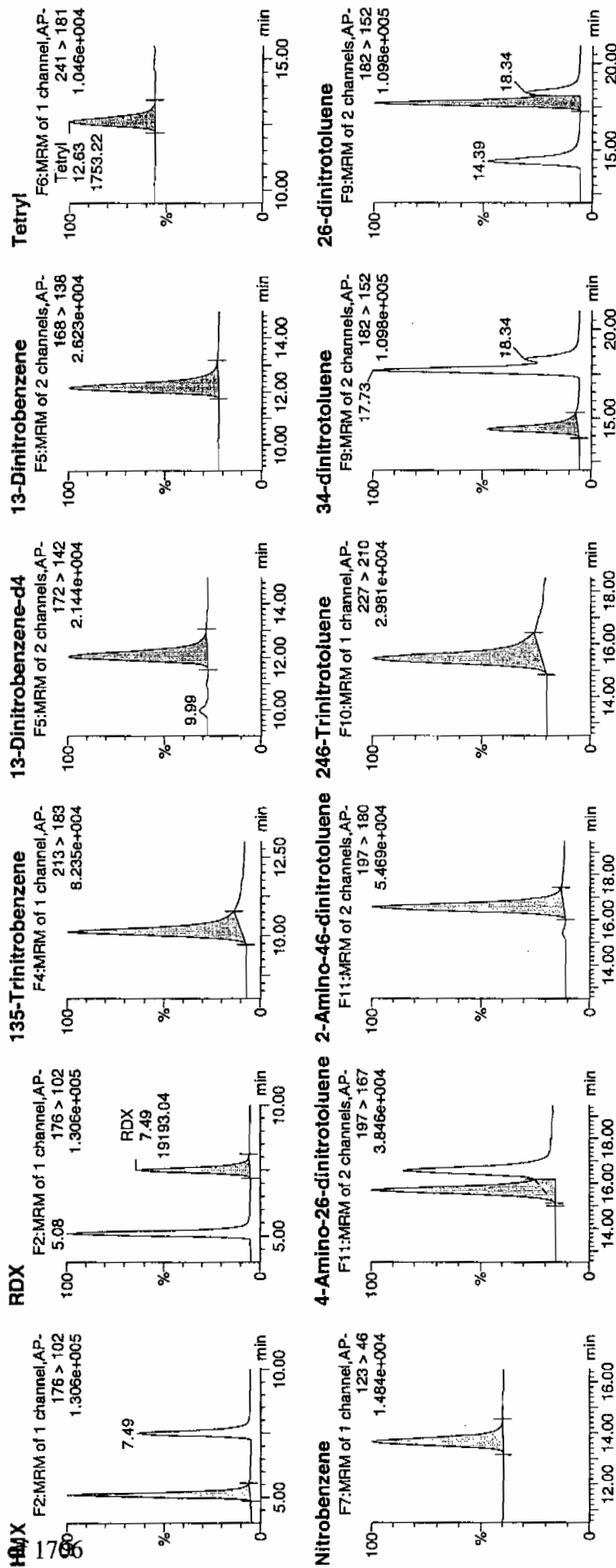
Vol: 1:4,F

10/17
3/28/10

21

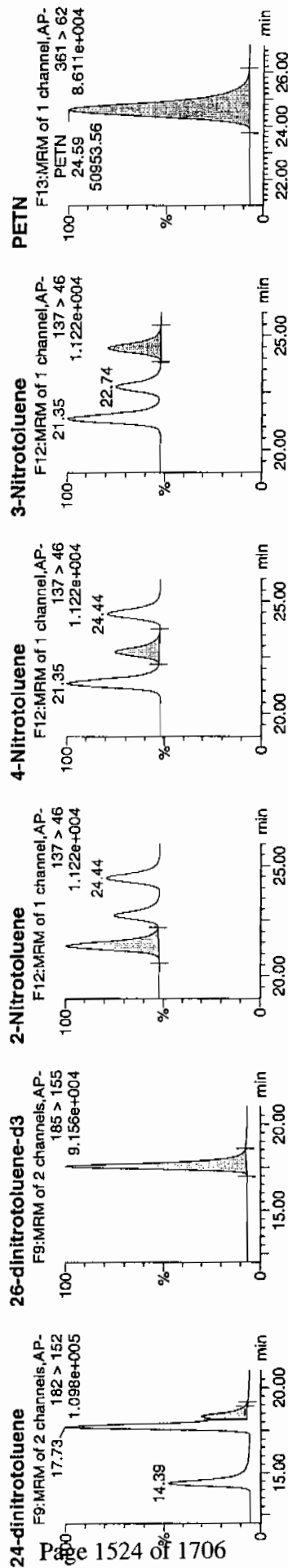
248197001MSS

LAU/958610



4m m
03/30/10

Dataset: C:\MASSLYNX\New_Exp\PRO032610expA1.qld, Time: Sun Mar 28 12:50:31 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Integr	%Dev	SN	
1202055943	HMX	176 > 102	5.08	26770.643	6476.667	26770.643	2066.699	bb			507.8307	101.6	1.6	2439.1
1202055943	RDX	176 > 102	7.49	19193.045	6476.667	19193.045	1481.707	bb			495.0834	99.0	-1.0	1512.9
1202055943	135-Trinitrobenzene	213 > 183	10.12	23420.621	6476.667	23420.621	1808.077	bb			411.5750	82.3	-17.7	2047.2
1202055943	13-Dinitrobenzene-d4	172 > 142	12.03	6476.667		6476.667	6476.667	bb			529.3652	105.9	5.9	1217.6
1202055943	13-Dinitrobenzene	168 > 138	12.17	8045.173	6476.667	8045.173	621.089	bb			465.8710	93.2	-6.8	937.2
1202055943	Tetryl	241 > 181	12.63	1753.224	6476.667	1753.224	135.349	bb			121.4147	24.3	-75.7	203.8
1202055943	Nitrobenzene	123 > 46	13.67	3330.321	6476.667	3330.321	257.101	bb			425.9797	85.2	-14.8	319.4
1202055943	4-Amino-26-dinitrotoluene	197 > 167	15.68	13526.149	37415.359	13526.149	180.757	MM	28-Mar-10	12:41:15	500.2640	100.1	0.1	815.1
1202055943	2-Amino-46-dinitrotoluene	197 > 180	16.55	20934.820	37415.359	20934.820	279.762	bb			516.5162	103.3	3.3	1313.9
1202055943	246-Trinitrotoluene	227 > 210	15.45	11719.221	37415.359	11719.221	156.610	bb			486.1973	97.2	-2.8	783.6
1202055943	34-dinitrotoluene	182 > 152	14.39	20711.211	37415.359	20711.211	276.774	bb			261.9232	104.8	4.8	385.4
1202055943	26-dinitrotoluene	182 > 152	17.73	40700.992	37415.359	40700.992	543.908	MM	28-Mar-10	12:46:51	475.5508	95.1	-4.9	868.4
1202055943	24-dinitrotoluene	182 > 152	18.34	11038.069	37415.359	11038.069	147.507	MM	28-Mar-10	12:48:35	498.1452	99.6	-0.4	218.5
1202055943	26-dinitrotoluene-d3	185 > 155	17.55	37415.359		37415.359	37415.359	bb			509.6050	101.9	1.9	2211.6
1202055943	2-Nitrotoluene	137 > 46	21.35	2478.573	37415.359	2478.573	33.122	bb			442.4133	88.5	-11.5	210.8
1202055943	4-Nitrotoluene	137 > 46	22.74	1204.155	37415.359	1204.155	16.092	bb			413.6177	82.7	-17.3	99.4
1202055943	3-Nitrotoluene	137 > 46	24.44	1572.625	37415.359	1572.625	21.016	bb			421.4141	84.3	-15.7	119.6
1202055943	PETN	361 > 62	24.59	50953.563	37415.359	50953.563	680.918	bb			484.4937	96.9	-3.1	12831.6

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE36-10-7405(248197001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-2121

Matrix: SOIL

GEL Sample ID: 1202055943

Sample Amount 2

Moisture: 17.5

Amount Units g

Date Received: 26-FEB-10

Extraction Type Sonication

Extraction Batch ID: 958637

Concentrated Extract Volume (mL) 10

Date Extracted: 04-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160160.wiff

Date Analyzed: 18-MAR-10 01:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4770	
59229-75-3	2,6-Diamino-4-nitrotoluene	4450	
618-87-1	3,5-Dinitroaniline	4550	
6629-29-4	2,4-Diamino-6-nitrotoluene	3090	
78-30-8	tris(o-cresyl) phosphate	5350	

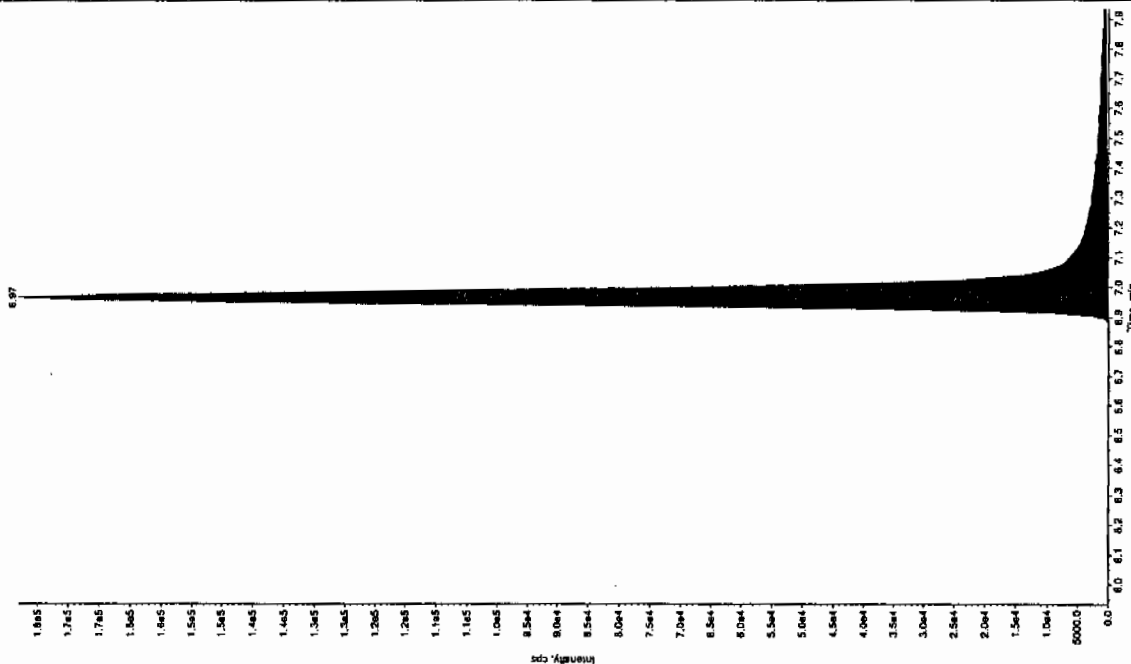
*Concentration =

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

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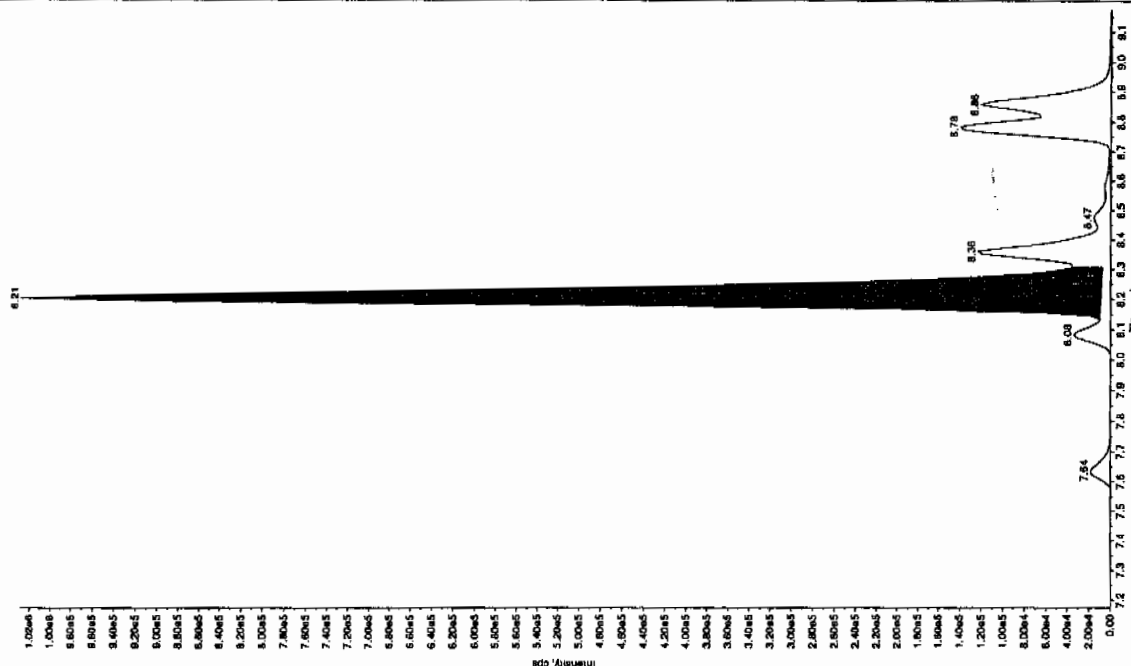
Sample Name: "1202055943" Sample ID: "95864021.ER" File: "EX803160160.wif"
 Peak Name: "1A1B" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 477 ng/mL
 Calculated Conc: 3/18/2010
 Acq. Date: 1:55:21 AM
 Acq. Time: 1:55:21 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 6.02e+005 counts
 Height: 178275.101 cps
 Start Time: 6.87 min
 End Time: 7.97 min

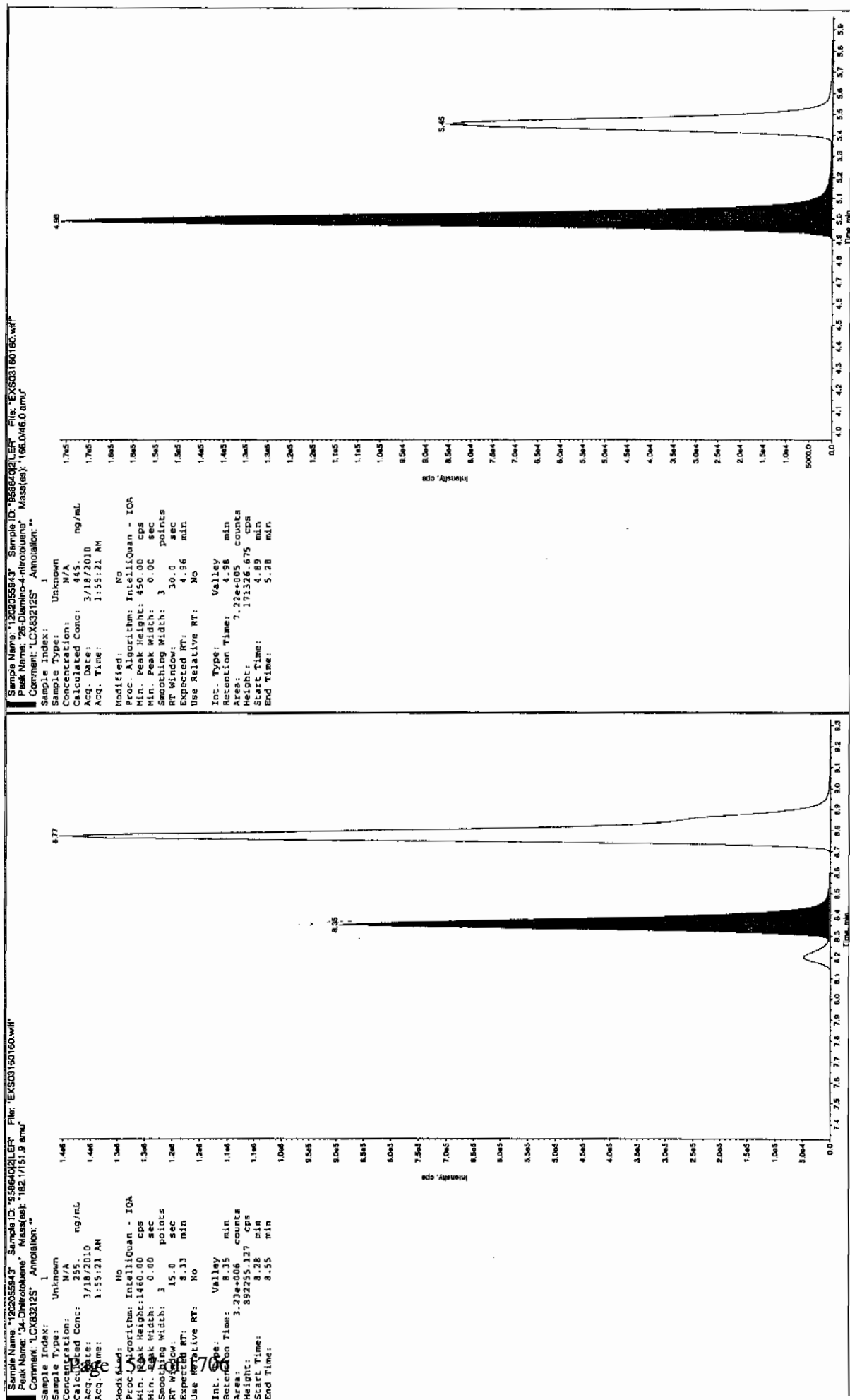


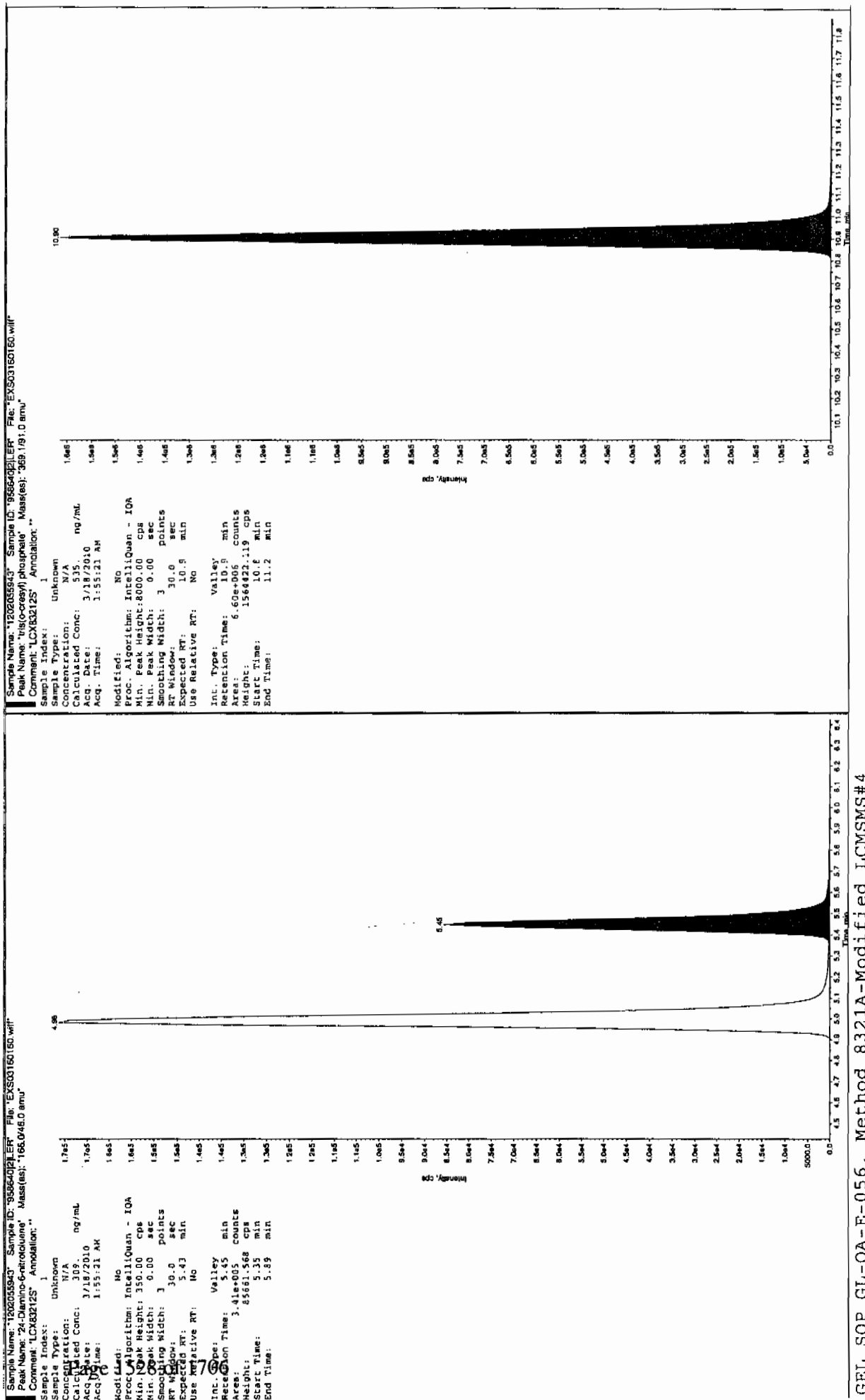
Sample Name: "1202055943" Sample ID: "95864021.ER" File: "EX803160160.wif"
 Peak Name: "35-Dichlorodinitro" Mass(es): "182.0450.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 455 ng/mL
 Calculated Conc: 3/18/2010
 Acq. Date: 1:55:21 AM
 Acq. Time: 1:55:21 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: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.21 min
 Area: 4.04e+006 counts
 Height: 1020630.127 cps
 Start Time: 8.13 min
 End Time: 8.31 min



Jan 31/9/10





MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 958637 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)
1202055940 MB	04-MAR-2010 14:43:00	2	10	5
1202055941 LCS	04-MAR-2010 14:43:00	2	10	5
248130002	04-MAR-2010 14:43:00	2	10	5
248130003	04-MAR-2010 14:43:00	2	10	5
248130004	04-MAR-2010 14:43:00	2	10	5
248130005	04-MAR-2010 14:43:00	2	10	5
248184002	04-MAR-2010 14:43:00	2	10	5
248184003	04-MAR-2010 14:43:00	2	10	5
248197001	04-MAR-2010 14:43:00	2	10	5
1202055942 MS (248197001)	04-MAR-2010 14:43:00	2	10	5
1202055943 MSD (248197001)	04-MAR-2010 14:43:00	2	10	5
248197002	04-MAR-2010 14:43:00	2	10	5
248197003	04-MAR-2010 14:43:00	2	10	5
248197004	04-MAR-2010 14:43:00	2	10	5
248197005	04-MAR-2010 14:43:00	2	10	5
248197007	04-MAR-2010 14:43:00	2	10	5
248197008	04-MAR-2010 14:43:00	2	10	5
248197009	04-MAR-2010 14:43:00	2	10	5
248197010	04-MAR-2010 14:43:00	2	10	5
248197011	04-MAR-2010 14:43:00	2	10	5
248197012	04-MAR-2010 14:43:00	2	10	5
248197013	04-MAR-2010 14:43:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202055941	8321 Explosives LCS	DX100225-03	.1	mL	Final Solvent: ACN
LCS	1202055941	8321 LANL Explosives Mix 10mg/L	UXX100223-02.02	1	mL	
MS	1202055942	8321 Explosives LCS	DX100225-03	.1	mL	
MS	1202055942	8321 LANL Explosives Mix 10mg/L	UXX100223-02.02	1	mL	
MSD	1202055943	8321 Explosives LCS	DX100225-03	.1	mL	
MSD	1202055943	8321 LANL Explosives Mix 10mg/L	UXX100223-02.02	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Surrogate) 100ppm	DXP100304-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCM SMS #1

Date: 03/23/10
 Extr. Injection Volume: 50uL
 Sequence Number: 032310expA
 Initial Calibration Date: 03/23/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.2
 Mobile Phase Lot#: 1289327, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *gml*
 Date: *03/30/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100323-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0323001a	XIBLK01	MAP	3/23/10 9:08			1		USE	B
EXP0323002a	XIBLK01	MAP	3/23/10 9:38			1		USE	B
EXP0323003a	WXXICAL-01	MAP	3/23/10 10:08			1		USE	I
EXP0323004a	WXXICAL-02	MAP	3/23/10 10:37			1		USE	I
EXP0323005a	WXXICAL-03	MAP	3/23/10 11:07			1		USE	I
EXP0323006a	WXXICAL-04	MAP	3/23/10 11:36			1		USE	I
EXP0323007a	WXXICAL-05	MAP	3/23/10 12:05			1		USE	I
EXP0323008a	WXXICAL-06	MAP	3/23/10 12:35			1		USE	I
EXP0323009a	XIBLK02	MAP	3/23/10 13:04			1		USE	B
EXP0323010a	WXXICV	MAP	3/23/10 13:34			1		USE	C
EXP0323011a	XIBLK03	MAP	3/23/10 14:03			1		USE	B
EXP0323012a	WXXCRI	MAP	3/23/10 14:33			1		USE	C
EXP0323013a	247562004	MAP	3/23/10 15:02	956045	10-1950	2	LANL	USE	S
EXP0323014a	247565007	MAP	3/23/10 15:32	956053	10-1956	2	LANL	USE	S
EXP0323015a	247565008	MAP	3/23/10 16:01	956053	10-1956	2	LANL	USE	S
EXP0323016a	247565009	MAP	3/23/10 16:31	956053	10-1956	2	LANL	USE	S
EXP0323017a	247565010	MAP	3/23/10 17:00	956053	10-1956	2	LANL	USE	S
EXP0323018a	1202035690	MAP	3/23/10 17:30	950087	Various	2	LANL	USE	S
EXP0323019a	1202035691	MAP	3/23/10 17:59	950087	Various	2	LANL	USE	S
EXP0323020a	246434002	MAP	3/23/10 18:29	950087	10-1620	2	LANL	USE	S
EXP0323021a	1202035692	MAP	3/23/10 18:58	950087	10-1620	2	LANL	USE	S
EXP0323022a	1202035693	MAP	3/23/10 19:28	950087	10-1620	2	LANL	USE	S
EXP0323023a	WXXCCV	MAP	3/23/10 19:57			1		USE	C
EXP0323024a	XIBLK04	MAP	3/23/10 20:27			1		USE	B
EXP0323025a	WXXCRI	MAP	3/23/10 20:56			1		USE	C
EXP0323026a	246434003	MAP	3/23/10 21:26	950087	10-1620	2	LANL	USE	S
EXP0323027a	246434004	MAP	3/23/10 21:55	950087	10-1620	2	LANL	USE	S
EXP0323028a	246434005	MAP	3/23/10 22:25	950087	10-1620	2	LANL	USE	S
EXP0323029a	246434006	MAP	3/23/10 22:54	950087	10-1620	2	LANL	USE	S

EXP0323030a	246434007	MAP	3/23/10 23:24	950087	10-1620	2	LANL	USE	S
EXP03230301a	246434008	MAP	3/23/10 23:53	950087	10-1620	2	LANL	USE	S
EXP03230302a	246434009	MAP	3/24/10 0:23	950087	10-1620	2	LANL	USE	S
EXP03230303a	246434010	MAP	3/24/10 0:52	950087	10-1620	2	LANL	USE	S
EXP03230304a	246434011	MAP	3/24/10 1:22	950087	10-1620	2	LANL	USE	S
EXP03230305a	246434012	MAP	3/24/10 1:51	950087	10-1620	2	LANL	USE	S
EXP03230306a	WXXCCV	MAP	3/24/10 2:21			1		USE	C
EXP03230307a	XIBLK05	MAP	3/24/10 2:50			1		USE	B
EXP03230308a	WXXCRI	MAP	3/24/10 3:20			1		USE	C
EXP03230309a	246434013	MAP	3/24/10 3:49	950087	10-1620	2	LANL	USE	S
EXP03230304a	246434014	MAP	3/24/10 4:19	950087	10-1620	2	LANL	USE	S
EXP0323041a	246434015	MAP	3/24/10 4:48	950087	10-1620	2	LANL	USE	S
EXP0323042a	246442002	MAP	3/24/10 5:18	950087	10-1623	2	LANL	USE	S
EXP0323043a	246442003	MAP	3/24/10 5:47	950087	10-1623	2	LANL	USE	S
EXP0323044a	246442004	MAP	3/24/10 6:17	950087	10-1623	2	LANL	USE	S
EXP0323045a	246442005	MAP	3/24/10 6:46	950087	10-1623	2	LANL	USE	S
EXP0323046a	246442006	MAP	3/24/10 7:15	950087	10-1623	2	LANL	USE	S
EXP0323047a	WXXCCV	MAP	3/24/10 7:45			1		USE	C
EXP0323048a	XIBLK06	MAP	3/24/10 8:15			1		USE	B
EXP0323049a	WXXCRI	MAP	3/24/10 8:44			1		USE	C
EXP0323050a	1202055940	MAP	3/24/10 9:14	958640	Various	2	LANL	USE	S
EXP0323051a	1202055941	MAP	3/24/10 9:43	958640	Various	2	LANL	USE	S
EXP0323052a	248130002	MAP	3/24/10 10:13	958640	10-2097	2	LANL	USE	S
EXP0323053a	248130003	MAP	3/24/10 10:42	958640	10-2097	2	LANL	DUSE-RA	S
EXP0323054a	248130004	MAP	3/24/10 11:12	958640	10-2097	2	LANL	USE	S
EXP0323055a	248130005	MAP	3/24/10 11:41	958640	10-2097	2	LANL	USE	S
EXP0323056a	248184002	MAP	3/24/10 12:11	958640	10-2119	2	LANL	USE-DL	S
EXP0323057a	248184003	MAP	3/24/10 12:40	958640	10-2119	2	LANL	DUSE-RA	S
EXP0323058a	248130003	MAP	3/24/10 13:10	958640	10-2097	2	LANL	USE	S
EXP0323059a	248184003	MAP	3/24/10 13:39	958640	10-2119	2	LANL	USE	S
EXP0323060a	WXXCCV	MAP	3/24/10 14:09			1		USE	C
EXP0323061a	XIBLK07	MAP	3/24/10 14:38			1		USE	B
EXP0323062a	WXXCRI	MAP	3/24/10 15:08			1		USE	C
EXP0323063a	248197001	MAP	3/24/10 15:37	958640	10-2121	2	LANL	USE	S
EXP0323064a	1202055942	MAP	3/24/10 16:07	958640	10-2121	2	LANL	USE	S
EXP0323065a	1202055943	MAP	3/24/10 16:36	958640	10-2121	2	LANL	DUSE-RA	S
EXP0323066a	248197002	MAP	3/24/10 17:06	958640	10-2121	2	LANL	DUSE-RA	S

EXP0323067a	248197003	MAP	3/24/10 17:35	958640	10-2121	2	LANL	USE	S
EXP0323068a	248197004	MAP	3/24/10 18:05	958640	10-2121	2	LANL	USE	S
EXP0323069a	248197005	MAP	3/24/10 18:34	958640	10-2121	2	LANL	USE	S
EXP0323070a	248197007	MAP	3/24/10 19:04	958640	10-2121	2	LANL	USE	S
EXP0323071a	248197008	MAP	3/24/10 19:33	958640	10-2121	2	LANL	USE	S
EXP0323072a	248197009	MAP	3/24/10 20:03	958640	10-2121	2	LANL	USE	S
EXP0323073a	WXXCCV	MAP	3/24/10 20:32			1		USE	C
EXP0323074a	XIBLK08	MAP	3/24/10 21:02			1		USE	B
EXP0323075a	WXXCRI	MAP	3/24/10 21:31			1		USE	C
EXP0323076a	248197010	MAP	3/24/10 22:01	958640	10-2121	2	LANL	USE	S
EXP0323077a	248197011	MAP	3/24/10 22:30	958640	10-2121	2	LANL	USE	S
EXP0323078a	248197012	MAP	3/24/10 23:00	958640	10-2121	2	LANL	USE	S
EXP0323079a	248197013	MAP	3/24/10 23:29	958640	10-2121	2	LANL	USE	S
EXP0323080a	248184002	MAP	3/24/10 23:59	958640	10-2121	5	LANL	USE	S
EXP0323081a	XIBLK09	MAP	3/25/10 0:28		10-2121	1		USE	B
EXP0323082a	1202057490	MAP	3/25/10 0:58	959334	Various	2	LANL	USE	S
EXP0323083a	1202057491	MAP	3/25/10 1:28	959334	Various	2	LANL	USE	S
EXP0323084a	248202001	MAP	3/25/10 1:57	959334	10-2124	2	LANL	USE	S
EXP0323085a	248202002	MAP	3/25/10 2:27	959334	10-2124	2	LANL	USE	S
EXP0323086a	WXXCCV	MAP	3/25/10 2:56			1		USE	C
EXP0323087a	XIBLK10	MAP	3/25/10 3:26			1		USE	B
EXP0323088a	WXXCRI	MAP	3/25/10 3:55			1		USE	C
EXP0323089a	248203002	MAP	3/25/10 4:24	959334	10-2125	2	LANL	USE	S
EXP0323090a	248234001	MAP	3/25/10 4:54	959334	10-2131	2	LANL	USE	S
EXP0323091a	248234002	MAP	3/25/10 5:23	959334	10-2131	2	LANL	USE	S
EXP0323092a	248234003	MAP	3/25/10 5:53	959334	10-2131	2	LANL	USE	S
EXP0323093a	248234004	MAP	3/25/10 6:22	959334	10-2131	2	LANL	USE	S
EXP0323094a	248234005	MAP	3/25/10 6:52	959334	10-2131	2	LANL	USE	S
EXP0323095a	248234006	MAP	3/25/10 7:21	959334	10-2131	2	LANL	USE	S
EXP0323096a	248234007	MAP	3/25/10 7:51	959334	10-2131	2	LANL	USE	S
EXP0323097a	248240001	MAP	3/25/10 8:20	959334	10-2134	2	LANL	USE	S
EXP0323098a	1202057492	MAP	3/25/10 8:50	959334	10-2134	2	LANL	USE	S
EXP0323099a	WXXCCV	MAP	3/25/10 9:19			1		USE	C
EXP0323100a	XIBLK11	MAP	3/25/10 9:49			1		USE	B
EXP0323101a	WXXCRI	MAP	3/25/10 10:18			1		USE	C
EXP0323102a	1202057493	MAP	3/25/10 10:48	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323103a	248240002	MAP	3/25/10 11:17	959334	10-2134	2	LANL	DUSE-RA	S

EXP0323104a	248240003	MAP	3/25/10 11:47	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323105a	248240004	MAP	3/25/10 12:16	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323106a	248240005	MAP	3/25/10 12:46	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323107a	248240006	MAP	3/25/10 13:15	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323108a	248240007	MAP	3/25/10 13:45	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323109a	248240008	MAP	3/25/10 14:14	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323110a	248240009	MAP	3/25/10 14:44	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323111a	248240010	MAP	3/25/10 15:13	959334	10-2134	2	LANL	DUSE-RA	S
EXP0323112a	WXXCCV	MAP	3/25/10 15:43			1		DUSE	C
EXP0323113a	XIBLK12	MAP	3/25/10 16:12			1		DUSE	B

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/26/10
 Extr. Injection Volume: 50uL
 Sequence Number: 032610expA
 Initial Calibration Date: 03/26/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.3
 Mobile Phase Lot#: 1290941, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *hmc*
 Date: *03/30/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100326-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0326001a	XIBLK01	MAP	3/26/10 14:43			1		USE	B
EXP0326002a	XIBLK01	MAP	3/26/10 15:12			1		USE	B
EXP0326003a	WXXICAL-01	MAP	3/26/10 15:42			1		USE	I
EXP0326004a	WXXICAL-02	MAP	3/26/10 16:11			1		USE	I
EXP0326005a	WXXICAL-03	MAP	3/26/10 16:41			1		USE	I
EXP0326006a	WXXICAL-04	MAP	3/26/10 17:10			1		USE	I
EXP0326007a	WXXICAL-05	MAP	3/26/10 17:40			1		USE	I
EXP0326008a	WXXICAL-06	MAP	3/26/10 18:09			1		USE	I
EXP0326009a	XIBLK02	MAP	3/26/10 18:39			1		USE	B
EXP0326010a	WXXICV.X	MAP	3/26/10 19:08			1		DUSE	C
EXP0326011a	XIBLK03	MAP	3/26/10 19:38			1		USE	B
EXP0326012a	WXXICRI.X	MAP	3/26/10 20:07			1		DUSE	C
EXP0326013a	248234004	MAP	3/26/10 20:37	959334	10-2131	10	LANL	DUSE-RA	S
EXP0326014a	248234005	MAP	3/26/10 21:06	959334	10-2131	2	LANL	DUSE-RA	S
EXP0326015a	248197002	MAP	3/26/10 21:36	958640	10-2121	2	LANL	DUSE-RA	S
EXP0326016a	1202055943	MAP	3/26/10 22:05	958640	10-2121	2	LANL	DUSE-RA	S
EXP0326017a	WXXICV	MAP	3/26/10 22:35			1		USE	C
EXP0326018a	XIBLK04	MAP	3/26/10 23:04			1		USE	B
EXP0326019a	WXXICRI	MAP	3/26/10 23:34			1		USE	C
EXP0326020a	1202076336	MAP	3/27/10 0:03	967392	10-2491	2	LANL	USE	S
EXP0326021a	1202076337	MAP	3/27/10 0:33	967392	10-2491	2	LANL	USE	S
EXP0326022a	249611006	MAP	3/27/10 1:02	967392	10-2491	2	LANL	USE	S
EXP0326023a	XIBLK05	MAP	3/27/10 1:32			1		USE	B
EXP0326024a	1202076338	MAP	3/27/10 2:01	967392	10-2491	2	LANL	USE	S
EXP0326025a	XIBLK06	MAP	3/27/10 2:31			1		USE	B
EXP0326026a	1202076339	MAP	3/27/10 3:00	967392	10-2491	2	LANL	USE	S
EXP0326027a	XIBLK07	MAP	3/27/10 3:30			1		USE	B
EXP0326028a	WXXCCV	MAP	3/27/10 3:59			1		USE	C
EXP0326029a	XIBLK08	MAP	3/27/10 4:29			1		USE	B

EXP0326030a	WXXCRI	MAP	3/27/10 4:58	960370	Various	1	LANL	USE	C
EXP0326031a	1202059959	MAP	3/27/10 5:28	960370	Various	2	LANL	USE	S
EXP0326032a	1202059960	MAP	3/27/10 5:57	960370	Various	2	LANL	USE	S
EXP0326033a	248377002	MAP	3/27/10 6:27	960370	10-2157	2	LANL	USE	S
EXP0326034a	248377003	MAP	3/27/10 6:56	960370	10-2157	2	LANL	USE	S
EXP0326035a	248377004	MAP	3/27/10 7:26	960370	10-2157	2	LANL	USE	S
EXP0326036a	248377005	MAP	3/27/10 7:55	960370	10-2157	2	LANL	USE	S
EXP0326037a	248377006	MAP	3/27/10 8:25	960370	10-2157	2	LANL	USE	S
EXP0326038a	248377007	MAP	3/27/10 8:54	960370	10-2157	2	LANL	USE	S
EXP0326039a	248420001	MAP	3/27/10 9:24	960370	10-2190	2	LANL	USE	S
EXP0326040a	1202059961	MAP	3/27/10 9:53	960370	10-2190	2	LANL	USE	S
EXP0326041a	WXXCCV	MAP	3/27/10 10:23			1		USE	C
EXP0326042a	XIBLK09	MAP	3/27/10 10:52			1		USE	B
EXP0326043a	WXXCRI	MAP	3/27/10 11:22			1		USE	C
EXP0326044a	1202059962	MAP	3/27/10 11:51	960370	10-2190	2	LANL	USE	S
EXP0326045a	248420002	MAP	3/27/10 12:21	960370	10-2190	2	LANL	USE	S
EXP0326046a	248420003	MAP	3/27/10 12:50	960370	10-2190	2	LANL	USE	S
EXP0326047a	248420004	MAP	3/27/10 13:20	960370	10-2190	2	LANL	USE	S
EXP0326048a	248420005	MAP	3/27/10 13:49	960370	10-2190	2	LANL	USE	S
EXP0326049a	248420006	MAP	3/27/10 14:19	960370	10-2190	2	LANL	USE	S
EXP0326050a	248420007	MAP	3/27/10 14:48	960370	10-2190	2	LANL	USE	S
EXP0326051a	248420008	MAP	3/27/10 15:18	960370	10-2190	2	LANL	USE	S
EXP0326052a	248420009	MAP	3/27/10 15:47	960370	10-2190	2	LANL	USE	S
EXP0326053a	WXXCCV	MAP	3/27/10 16:17			1		USE	C
EXP0326054a	XIBLK10	MAP	3/27/10 16:46			1		USE	B
EXP0326055a	WXXCRI	MAP	3/27/10 17:16			1		USE	C
EXP0326056a	248234004	MAP	3/27/10 17:45	959334	10-2131	10	LANL	USE	S
EXP0326057a	248234005	MAP	3/27/10 18:15	959334	10-2131	2	LANL	USE	S
EXP0326058a	248197002	MAP	3/27/10 18:44	958640	10-2121	2	LANL	USE	S
EXP0326059a	1202055943	MAP	3/27/10 19:14	958640	10-2121	2	LANL	USE	S
EXP0326060a	WXXCCV	MAP	3/27/10 19:43			1		USE	C
EXP0326061a	XIBLK11	MAP	3/27/10 20:13			1		USE	B
EXP0326062a	WXXCRI	MAP	3/27/10 20:42			1		USE	C
EXP0326063a	1202045735	MAP	3/27/10 21:12	954321	Various	2	LANL	USE	S
EXP0326064a	1202045736	MAP	3/27/10 21:41	954321	Various	2	LANL	USE	S
EXP0326065a	247126001	MAP	3/27/10 22:11	954321	10-1849	2	LANL	USE	S
EXP0326066a	1202045737	MAP	3/27/10 22:40	954321	10-1849	2	LANL	USE	S

EXP0326067a	1202045738	MAP	3/27/10 23:10	954321	10-1849	2	LANL	USE	S
EXP0326068a	247126002	MAP	3/27/10 23:39	954321	10-1849	2	LANL	USE	S
EXP0326069a	247126003	MAP	3/28/10 0:09	954321	10-1849	2	LANL	USE	S
EXP0326070a	247178001	MAP	3/28/10 0:38	954321	10-1861	2	LANL	USE	S
EXP0326071a	247178002	MAP	3/28/10 1:08	954321	10-1861	2	LANL	USE	S
EXP0326072a	247178003	MAP	3/28/10 1:37	954321	10-1861	2	LANL	USE	S
EXP0326073a	WXXCCV	MAP	3/28/10 2:07			1		USE	C
EXP0326074a	XIBLK12	MAP	3/28/10 2:36			1		USE	B
EXP0326075a	WXXCRI	MAP	3/28/10 3:06			1		USE	C
EXP0326076a	247178004	MAP	3/28/10 3:35	954321	10-1861	2	LANL	USE	S
EXP0326077a	247178005	MAP	3/28/10 4:05	954321	10-1861	2	LANL	USE	S
EXP0326078a	247178006	MAP	3/28/10 4:34	954321	10-1861	2	LANL	USE	S
EXP0326079a	247178007	MAP	3/28/10 5:04	954321	10-1861	2	LANL	USE	S
EXP0326080a	247178008	MAP	3/28/10 5:33	954321	10-1861	2	LANL	USE	S
EXP0326081a	247178009	MAP	3/28/10 6:03	954321	10-1861	2	LANL	USE	S
EXP0326082a	247178010	MAP	3/28/10 6:32	954321	10-1861	2	LANL	USE	S
EXP0326083a	247178011	MAP	3/28/10 7:02	954321	10-1861	2	LANL	USE	S
EXP0326084a	WXXCCV	MAP	3/28/10 7:31			1		USE	C
EXP0326085a	XIBLK13	MAP	3/28/10 8:01			1		USE	B
EXP0326086a	WXXCRI	MAP	3/28/10 8:30			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/16/10
 Extr. Injection Volume: 10ul
 Sequence Number: 031610exs
 Initial Calibration Date: 031610
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *John*
 Date: 03/22/10
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100316-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03160001.wiff	XIBLK01	LER	3/16/2010 8:17			1		USE	B
EXS03160002.wiff	XIBLK01	LER	3/16/2010 8:33			1		USE	B
EXS03160003.wiff	WXXICAL-19	LER	3/16/2010 8:49			1		USE	I
EXS03160004.wiff	WXXICAL-20	LER	3/16/2010 9:04			1		USE	I
EXS03160005.wiff	WXXICAL-21	LER	3/16/2010 9:20			1		USE	I
EXS03160006.wiff	WXXICAL-22	LER	3/16/2010 9:36			1		USE	I
EXS03160007.wiff	WXXICAL-23	LER	3/16/2010 9:52			1		USE	I
EXS03160008.wiff	WXXICAL-24	LER	3/16/2010 10:07			1		USE	I
EXS03160009.wiff	WXXICAL-25	LER	3/16/2010 10:23			1		USE	I
EXS03160010.wiff	XIBLK02	LER	3/16/2010 10:39			1		USE	B
EXS03160011.wiff	WXXICV	LER	3/16/2010 10:54			1		USE	C
EXS03160012.wiff	XIBLK03	LER	3/16/2010 11:10			1		USE	B
EXS03160013.wiff	WXXCRI	LER	3/16/2010 11:26			1		USE	C
EXS03160014.wiff	1202049932	LER	3/16/2010 11:41	956053	VARIOUS	2	LANL	USE	S
EXS03160015.wiff	1202049933	LER	3/16/2010 11:57	956053	VARIOUS	2	LANL	USE	S
EXS03160016.wiff	247545001	LER	3/16/2010 12:13	956053	10-1964	2	LANL	USE	S
EXS03160017.wiff	247545002	LER	3/16/2010 12:29	956053	10-1964	2	LANL	USE	S
EXS03160018.wiff	247551001	LER	3/16/2010 12:44	956053	10-1969	2	LANL	USE	S
EXS03160019.wiff	247551002	LER	3/16/2010 13:00	956053	10-1969	2	LANL	USE	S
EXS03160020.wiff	247552002	LER	3/16/2010 13:16	956053	10-1970	2	LANL	USE	S
EXS03160021.wiff	247556001	LER	3/16/2010 13:31	956053	10-1953	2	LANL	USE	S
EXS03160022.wiff	1202049934	LER	3/16/2010 13:47	956053	10-1953	2	LANL	USE	S
EXS03160023.wiff	1202049935	LER	3/16/2010 14:03	956053	10-1953	2	LANL	USE	S
EXS03160024.wiff	WXXCCV	LER	3/16/2010 14:18			1		USE	C
EXS03160025.wiff	XIBLK04	LER	3/16/2010 14:34			1		USE	B
EXS03160026.wiff	WXXCRI	LER	3/16/2010 14:50			1		USE	C
EXS03160027.wiff	247556002	LER	3/16/2010 15:06	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160028.wiff	247556003	LER	3/16/2010 15:21	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160029.wiff	247556004	LER	3/16/2010 15:37	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160030.wiff	247556005	LER	3/16/2010 15:53	956053	10-1953	2	LANL	DUSE-RA	S

EXS03160031.wiff	247565001	LER	3/16/2010 16:08	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160032.wiff	247565002	LER	3/16/2010 16:24	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160033.wiff	247565003	LER	3/16/2010 16:40	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160034.wiff	247565004	LER	3/16/2010 16:56	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160035.wiff	247565005	LER	3/16/2010 17:11	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160036.wiff	247565006	LER	3/16/2010 17:27	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160037.wiff	WXXCCV X	LER	3/16/2010 17:43			1		DUSE	C
EXS03160038.wiff	XIBLK05 X	LER	3/16/2010 17:58			1		DUSE	B
EXS03160039.wiff	WXXCRI	LER	3/16/2010 18:14			1		DUSE	C
EXS03160040.wiff	247565007	LER	3/16/2010 18:30	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160041.wiff	247565008	LER	3/16/2010 18:45	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160042.wiff	247565009	LER	3/16/2010 19:01	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160043.wiff	247565010	LER	3/16/2010 19:17	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160044.wiff	XIBLK06 X	LER	3/16/2010 19:33			1		DUSE-RA	B
EXS03160045.wiff	1202055047	LER	3/16/2010 19:48	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160046.wiff	1202055048	LER	3/16/2010 20:04	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160047.wiff	248059002	LER	3/16/2010 20:20	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160048.wiff	248059003	LER	3/16/2010 20:36	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160049.wiff	248059004	LER	3/16/2010 20:51	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160050.wiff	WXXCCV	LER	3/16/2010 21:07			1		USE	C
EXS03160051.wiff	XIBLK07	LER	3/16/2010 21:23			1		USE	B
EXS03160052.wiff	WXXCRI	LER	3/16/2010 21:38			1		USE	C
EXS03160053.wiff	248059005	LER	3/16/2010 21:54	958273	10-2082	2	LANL	USE	S
EXS03160054.wiff	248059006	LER	3/16/2010 22:10	958273	10-2082	2	LANL	USE	S
EXS03160055.wiff	248059007	LER	3/16/2010 22:26	958273	10-2082	2	LANL	USE	S
EXS03160056.wiff	248059008	LER	3/16/2010 22:41	958273	10-2082	2	LANL	USE	S
EXS03160057.wiff	248059009	LER	3/16/2010 22:57	958273	10-2082	2	LANL	USE	S
EXS03160058.wiff	248060003	LER	3/16/2010 23:13	958273	10-2080	2	LANL	USE	S
EXS03160059.wiff	248060004	LER	3/16/2010 23:28	958273	10-2080	2	LANL	USE	S
EXS03160060.wiff	248060005	LER	3/16/2010 23:44	958273	10-2080	2	LANL	USE	S
EXS03160061.wiff	248060006	LER	3/17/2010 0:00	958273	10-2080	2	LANL	USE	S
EXS03160062.wiff	WXXCCV	LER	3/17/2010 0:16			1		USE	C
EXS03160063.wiff	XIBLK08	LER	3/17/2010 0:31			1		USE	B
EXS03160064.wiff	WXXCRI	LER	3/17/2010 0:47			1		USE	C
EXS03160065.wiff	248064001	LER	3/17/2010 1:03	958273	10-2085	2	LANL	USE	S
EXS03160066.wiff	1202055049	LER	3/17/2010 1:18	958273	10-2085	2	LANL	USE	S
EXS03160067.wiff	1202055050	LER	3/17/2010 1:34	958273	10-2085	2	LANL	USE	S

EXS03160068.wiff	248064002	LER	3/17/2010 1:50	958273	10-2085	2	LANL	USE	S
EXS03160069.wiff	248064003	LER	3/17/2010 2:06	958273	10-2085	2	LANL	USE	S
EXS03160070.wiff	248064004	LER	3/17/2010 2:21	958273	10-2085	2	LANL	USE	S
EXS03160071.wiff	248064005	LER	3/17/2010 2:37	958273	10-2085	2	LANL	USE	S
EXS03160072.wiff	248064006	LER	3/17/2010 2:53	958273	10-2085	2	LANL	USE	S
EXS03160073.wiff	248064007	LER	3/17/2010 3:08	958273	10-2085	2	LANL	USE	S
EXS03160074.wiff	248064008	LER	3/17/2010 3:24	958273	10-2085	2	LANL	USE	S
EXS03160075.wiff	WXXCCV	LER	3/17/2010 3:40			1		USE	C
EXS03160076.wiff	XIBLK09	LER	3/17/2010 3:55			1		USE	B
EXS03160077.wiff	WXXCRI	LER	3/17/2010 4:11			1		USE	C
EXS03160078.wiff	1202057490	LER	3/17/2010 4:27	959334	VARIOUS	2	LANL	USE	S
EXS03160079.wiff	1202057491	LER	3/17/2010 4:43	959334	VARIOUS	2	LANL	USE	S
EXS03160080.wiff	248202001	LER	3/17/2010 4:58	959334	10-2124	2	LANL	USE	S
EXS03160081.wiff	248202002	LER	3/17/2010 5:14	959334	10-2124	2	LANL	USE	S
EXS03160082.wiff	248203002	LER	3/17/2010 5:30	959334	10-2125	2	LANL	USE	S
EXS03160083.wiff	248234001	LER	3/17/2010 5:45	959334	10-2131	2	LANL	USE	S
EXS03160084.wiff	248234002	LER	3/17/2010 6:01	959334	10-2131	2	LANL	USE	S
EXS03160085.wiff	248234003	LER	3/17/2010 6:17	959334	10-2131	2	LANL	USE	S
EXS03160086.wiff	248234004	LER	3/17/2010 6:32	959334	10-2131	2	LANL	USE	S
EXS03160087.wiff	248234005	LER	3/17/2010 6:48	959334	10-2131	2	LANL	USE	S
EXS03160088.wiff	WXXCCV	LER	3/17/2010 7:04			1		USE	C
EXS03160089.wiff	XIBLK10	LER	3/17/2010 7:20			1		USE	B
EXS03160090.wiff	WXXCRI	LER	3/17/2010 7:35			1		USE	C
EXS03160091.wiff	248234006	LER	3/17/2010 7:51	959334	10-2131	2	LANL	USE	S
EXS03160092.wiff	248234007	LER	3/17/2010 8:07	959334	10-2131	2	LANL	USE	S
EXS03160093.wiff	248240001	LER	3/17/2010 8:22	959334	10-2134	2	LANL	USE	S
EXS03160094.wiff	1202057492	LER	3/17/2010 8:38	959334	10-2134	2	LANL	USE	S
EXS03160095.wiff	1202057493	LER	3/17/2010 8:54	959334	10-2134	2	LANL	USE	S
EXS03160096.wiff	248240002	LER	3/17/2010 9:10	959334	10-2134	2	LANL	USE	S
EXS03160097.wiff	248240003	LER	3/17/2010 9:25	959334	10-2134	2	LANL	USE	S
EXS03160098.wiff	248240004	LER	3/17/2010 9:41	959334	10-2134	2	LANL	USE	S
EXS03160099.wiff	248240005	LER	3/17/2010 9:57	959334	10-2134	2	LANL	USE	S
EXS03160100.wiff	248240006	LER	3/17/2010 10:12	959334	10-2134	2	LANL	USE	S
EXS03160101.wiff	WXXCCV	LER	3/17/2010 10:28			1		USE	C
EXS03160102.wiff	XIBLK11	LER	3/17/2010 10:44			1		USE	B
EXS03160103.wiff	WXXCRI	LER	3/17/2010 10:59			1		USE	C
EXS03160104.wiff	248240007	LER	3/17/2010 11:15	959334	10-2134	2	LANL	USE	S

EXS03160105.wiff	248240008	LER	3/17/2010 11:31	959334	10-2134	2	LANL	USE	S
EXS03160106.wiff	248240009	LER	3/17/2010 11:47	959334	10-2134	2	LANL	USE	S
EXS03160107.wiff	248240010	LER	3/17/2010 12:02	959334	10-2134	2	LANL	USE	S
EXS03160108.wiff	WXXCCV	LER	3/17/2010 12:18			1		USE	C
EXS03160109.wiff	XIBLK12	LER	3/17/2010 12:34			1		USE	B
EXS03160110.wiff	WXXCRI	LER	3/17/2010 12:49			1		USE	C
EXS03160111.wiff	247556002	LER	3/17/2010 13:05	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160112.wiff	247556003	LER	3/17/2010 13:21	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160113.wiff	247556004	LER	3/17/2010 13:37	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160114.wiff	247556005	LER	3/17/2010 13:52	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160115.wiff	247556001	LER	3/17/2010 14:08	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160116.wiff	247556002	LER	3/17/2010 14:24	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160117.wiff	247556003	LER	3/17/2010 14:39	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160118.wiff	247556004	LER	3/17/2010 14:55	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160119.wiff	247556005	LER	3/17/2010 15:11	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160120.wiff	247556006	LER	3/17/2010 15:27	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160121.wiff	WXXCCV X	LER	3/17/2010 15:42			1		DUSE	C
EXS03160122.wiff	XIBLK13 X	LER	3/17/2010 15:58			1		DUSE	B
EXS03160123.wiff	WXXCRI X	LER	3/17/2010 16:14			1		DUSE	C
EXS03160124.wiff	247556007	LER	3/17/2010 16:29	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160125.wiff	247556008	LER	3/17/2010 16:45	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160126.wiff	247556009	LER	3/17/2010 17:01	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160127.wiff	247556010	LER	3/17/2010 17:17	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160128.wiff	XIBLK14 X	LER	3/17/2010 17:32			1		DUSE-RA	B
EXS03160129.wiff	1202055047	LER	3/17/2010 17:48	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160130.wiff	1202055048	LER	3/17/2010 18:04	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160131.wiff	248059002	LER	3/17/2010 18:19	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160132.wiff	248059003	LER	3/17/2010 18:35	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160133.wiff	248059004	LER	3/17/2010 18:51	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160134.wiff	WXXCCV	LER	3/17/2010 19:07			1		USE	C
EXS03160135.wiff	XIBLK15	LER	3/17/2010 19:22			1		USE	B
EXS03160136.wiff	WXXCRI	LER	3/17/2010 19:38			1		USE	C
EXS03160137.wiff	1202047270	LER	3/17/2010 19:54	954941	10-1886	2	LANL	USE	S
EXS03160138.wiff	1202047271	LER	3/17/2010 20:09	954941	10-1886	2	LANL	USE	S
EXS03160139.wiff	247261003	LER	3/17/2010 20:25	954941	10-1886	2	LANL	USE	S
EXS03160140.wiff	1202047272	LER	3/17/2010 20:41	954941	10-1886	2	LANL	USE	S
EXS03160141.wiff	1202047273	LER	3/17/2010 20:57	954941	10-1886	2	LANL	USE	S

EXS03160142.wiff	WXXCCV	LER	3/17/2010 21:12		SCREEN	SOLID	1	USE	C
EXS03160143.wiff	XIBLK16	LER	3/17/2010 21:28				1	USE	B
EXS03160144.wiff	WXXCRI	LER	3/17/2010 21:44				1	USE	C
EXS03160145.wiff	UXX100223-02.2	LER	3/17/2010 21:59				2	USE	S
EXS03160146.wiff	XIBLK17	LER	3/17/2010 22:15				1	USE	B
EXS03160147.wiff	1202055940	LER	3/17/2010 22:31		958640	VARIOUS	2	USE	S
EXS03160148.wiff	1202055941	LER	3/17/2010 22:46		958640	VARIOUS	2	USE	S
EXS03160149.wiff	248130002	LER	3/17/2010 23:02		958640	10-2097	2	USE	S
EXS03160150.wiff	248130003	LER	3/17/2010 23:18		958640	10-2097	2	USE	S
EXS03160151.wiff	248130004	LER	3/17/2010 23:34		958640	10-2097	2	USE	S
EXS03160152.wiff	248130005	LER	3/17/2010 23:49		958640	10-2097	2	USE	S
EXS03160153.wiff	248184002	LER	3/18/2010 0:05		958640	10-2119	2	USE	S
EXS03160154.wiff	248184003	LER	3/18/2010 0:21		958640	10-2119	2	USE	S
EXS03160155.wiff	WXXCCV	LER	3/18/2010 0:36				1	USE	C
EXS03160156.wiff	XIBLK18	LER	3/18/2010 0:52				1	USE	B
EXS03160157.wiff	WXXCRI	LER	3/18/2010 1:08				1	USE	C
EXS03160158.wiff	248197001	LER	3/18/2010 1:23		958640	10-2121	2	USE	S
EXS03160159.wiff	1202055942	LER	3/18/2010 1:39		958640	10-2121	2	USE	S
EXS03160160.wiff	1202055943	LER	3/18/2010 1:55		958640	10-2121	2	USE	S
EXS03160161.wiff	248197002	LER	3/18/2010 2:11		958640	10-2121	2	USE	S
EXS03160162.wiff	248197003	LER	3/18/2010 2:26		958640	10-2121	2	USE	S
EXS03160163.wiff	248197004	LER	3/18/2010 2:42		958640	10-2121	2	USE	S
EXS03160164.wiff	248197005	LER	3/18/2010 2:58		958640	10-2121	2	USE	S
EXS03160165.wiff	248197007	LER	3/18/2010 3:13		958640	10-2121	2	USE	S
EXS03160166.wiff	248197008	LER	3/18/2010 3:29		958640	10-2121	2	USE	S
EXS03160167.wiff	248197009	LER	3/18/2010 3:45		958640	10-2121	2	USE	S
EXS03160168.wiff	WXXCCV	LER	3/18/2010 4:00				1	USE	C
EXS03160169.wiff	XIBLK19	LER	3/18/2010 4:16				1	USE	B
EXS03160170.wiff	WXXCRI	LER	3/18/2010 4:32				1	USE	C
EXS03160171.wiff	248197010	LER	3/18/2010 4:48		958640	10-2121	2	USE	S
EXS03160172.wiff	248197011	LER	3/18/2010 5:03		958640	10-2121	2	USE	S
EXS03160173.wiff	248197012	LER	3/18/2010 5:19		958640	10-2121	2	USE	S
EXS03160174.wiff	248197013	LER	3/18/2010 5:35		958640	10-2121	2	USE	S
EXS03160175.wiff	WXXCCV	LER	3/18/2010 5:50				1	USE	C
EXS03160176.wiff	XIBLK20	LER	3/18/2010 6:06				1	USE	B
EXS03160177.wiff	WXXCRI	LER	3/18/2010 6:22				1	USE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 811218

Revision No.: 1

DATA EXCEPTION REPORT

Mo. Day Yr. 29-MAR-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 958640	Sample Numbers: 1202055942, 1202055943		
Potentially affected work order(s)(SDG): 248130(10-2097), 248184(10-2119), 248197(10-2121) Application Issues: Failed Recovery for MSD/PSD Failed Recovery for MS/PS			
Specification and Requirements		DER Disposition:	
Exception Description: 1. The Matrix Spike (1202055942) did not meet spike recovery limits for Tetra at 26.1%. The recovery limits are 36-124%. 2. The Matrix Spike Duplicate (1202055943) did not meet spike recovery limits for Tetra at 24.3%. The recovery limits are 36-124%.		1. & 2. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. The Laboratory Control Sample met acceptance criteria, therefore the data are reported with the appropriate DER. The discrepancies are noted in the case narrative.	

Originator's Name:

Michael Penny

29-MAR-10

Data Validator/Group Leader:

Herbert Maier

30-MAR-10

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2121

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 965380
Prep Batch Number: 965377

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
248197001	RE36-10-7405
248197002	RE36-10-7403
248197003	RE36-10-7406
248197004	RE36-10-7404
248197005	RE36-10-7516
1202071391	Method Blank (MB)
1202071392	Laboratory Control Sample (LCS)
1202071393	248202001(RE36-10-8282) Matrix Spike (MS)
1202071394	248202001(RE36-10-8282) 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.

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 (#10-2124) 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. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

Certification Statement

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

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

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

Reviewer: Jimmy Cao

Date: 3/25/10

Roadmap for LANL 10-2121 PCB

This roadmap was analyzed by yip00818 on 03-17-2010, 13:27.

This roadmap was packaged by jls on 03-24-2010, 08:34.

This roadmap was packaged by yml on 03-25-2010, 09:28.

This roadmap was validated by jim01140 on 03-25-2010, 12:26.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/022f2201.d	248197001	sample	16-MAR-2010	16:17	10-2121.sub	RE36-10-7405	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/023f2301.d	248197002	sample	16-MAR-2010	16:30	10-2121.sub	RE36-10-7403	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/024f2401.d	248197003	sample	16-MAR-2010	16:43	10-2121.sub	RE36-10-7406	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/025f2501.d	248197004	sample	16-MAR-2010	16:55	10-2121.sub	RE36-10-7404	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/026f2601.d	248197005	sample	16-MAR-2010	17:08	10-2121.sub	RE36-10-7516	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/022b2201.d	248197001	sample	16-MAR-2010	16:17	10-2121.sub	RE36-10-7405	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/023b2301.d	248197002	sample	16-MAR-2010	16:30	10-2121.sub	RE36-10-7403	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/024b2401.d	248197003	sample	16-MAR-2010	16:43	10-2121.sub	RE36-10-7406	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/025b2501.d	248197004	sample	16-MAR-2010	16:55	10-2121.sub	RE36-10-7404	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/026b2601.d	248197005	sample	16-MAR-2010	17:08	10-2121.sub	RE36-10-7516	1.00000	965380	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/012f1201-1.d	1202071391	mb	16-MAR-2010	14:16	10-2121.sub	PBLK01	1.00000	965380	
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/013f1301-1.d	1202071392	lcs	16-MAR-2010	14:26	10-2121.sub	PBLK01LCS	1.00000	965380	

Back QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/012b1201-1.d	1202071391	mb	16-MAR-2010	14:16	10-2121.sub	PBLK01	1.00000	965380	
<input type="checkbox"/>	N	/chem/ecd1a.i/031610a.b/013b1301-1.d	1202071392	lcs	16-MAR-2010	14:26	10-2121.sub	PBLK01LCS	1.00000	965380	

SAMPLE DATA SUMMARY

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197002Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 14.1
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	3.86	ug/kg	1.28	3.86	1
11104-28-2	Aroclor-1221	U	3.86	ug/kg	1.28	3.86	1
11141-16-5	Aroclor-1232	U	3.86	ug/kg	1.28	3.86	1
53469-21-9	Aroclor-1242	U	3.86	ug/kg	1.28	3.86	1
12672-29-6	Aroclor-1248	U	3.86	ug/kg	1.28	3.86	1
11097-69-1	Aroclor-1254	P	15.1	ug/kg	1.28	3.86	1
11096-82-5	Aroclor-1260		10.3	ug/kg	1.28	3.86	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197004

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 11.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7404
Batch ID: 965380
Run Date: 03/16/2010 16:55
Prep Date: 03/15/2010 21:25
Data File: 025f2501.d
025b2501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.78	ug/kg	1.26	3.78	1
11104-28-2	Aroclor-1221	U	3.78	ug/kg	1.26	3.78	1
11141-16-5	Aroclor-1232	U	3.78	ug/kg	1.26	3.78	1
53469-21-9	Aroclor-1242	U	3.78	ug/kg	1.26	3.78	1
12672-29-6	Aroclor-1248	U	3.78	ug/kg	1.26	3.78	1
11097-69-1	Aroclor-1254	P	15.0	ug/kg	1.26	3.78	1
11096-82-5	Aroclor-1260		11.7	ug/kg	1.26	3.78	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197001

Client ID: RE36-10-7405
Batch ID: 965380
Run Date: 03/16/2010 16:17
Prep Date: 03/15/2010 21:25
Data File: 022f2201.d
022b2201.d

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.11 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 17.5
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	4.03	ug/kg	1.34	4.03	1
11104-28-2	Aroclor-1221	U	4.03	ug/kg	1.34	4.03	1
11141-16-5	Aroclor-1232	U	4.03	ug/kg	1.34	4.03	1
53469-21-9	Aroclor-1242	U	4.03	ug/kg	1.34	4.03	1
12672-29-6	Aroclor-1248	U	4.03	ug/kg	1.34	4.03	1
11097-69-1	Aroclor-1254		7.90	ug/kg	1.34	4.03	1
11096-82-5	Aroclor-1260		5.70	ug/kg	1.34	4.03	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197003

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.1
Analyst: YS1
Aliquot: 30.15 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 10.4
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7406
Batch ID: 965380
Run Date: 03/16/2010 16:43
Prep Date: 03/15/2010 21:25
Data File: 024f2401.d
024b2401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 18.1
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	4.06	ug/kg	1.35	4.06	1
11104-28-2	Aroclor-1221	U	4.06	ug/kg	1.35	4.06	1
11141-16-5	Aroclor-1232	U	4.06	ug/kg	1.35	4.06	1
53469-21-9	Aroclor-1242	U	4.06	ug/kg	1.35	4.06	1
12672-29-6	Aroclor-1248	U	4.06	ug/kg	1.35	4.06	1
11097-69-1	Aroclor-1254	P	8.40	ug/kg	1.35	4.06	1
11096-82-5	Aroclor-1260		6.40	ug/kg	1.35	4.06	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-2121

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1	4CMX 2	DCB 1	DCB 2
		%REC #	%REC #	%REC #	%REC #
1202071391	MB for batch 965377	65	64	66	68
1202071392	LCS for batch 965377	65	64	65	66
248197001	RE36-10-7405	55	53	38	57
248197002	RE36-10-7403	56	53	54	61
248197003	RE36-10-7406	60	59	66	64
248197004	RE36-10-7404	56	55	53	58
248197005	RE36-10-7516	61	59	59	62

Surrogate

4CMX = 4cmx

DCB = Decachlorobiphenyl

Acceptance Limits

(32%-120%)

(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

Page 1 of 1

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-2121

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 965377

Matrix: SOIL

Lab Sample ID:1202071392

Instrument: ECD1A.I

Analysis Date: 03/16/2010 14:26

Dilution: 1

Analyst: YS1

Prep Batch II 965377

Inj. Vol: 1 uL

Batch ID: 965380

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	20.0	60	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	22.2	67	45-118

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-2124

Client ID: RE36-10-8282MS

Lab Sample ID:1202071393

Instrument: ECD1A.I

Analyst: YS1

Inj. Vol: 1 uL

Sample Type: Matrix Spike

Matrix: R

%Moisture: 8.7

Analysis Date: 03/16/2010 17:33

Dilution: 1

Prep Batch ID: 965377

Batch ID: 965380

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	36.3	0.00 U	20.0	55	23-119
11096-82-5	MS Aroclor-1260	36.3	0.00 U	25.4	70	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-2124

Sample Type: Matrix Spike Duplicate

Client ID: RE36-10-8282MSD

Matrix: R

Lab Sample ID:1202071394

%Moisture: 8.7

Instrument: ECD1A.I

Analysis Date: 03/16/2010 17:46

Dilution: 1

Analyst: YS1

Prep Batch ID: 965377

Inj. Vol: 1 uL

Batch ID: 965380

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	36.3	0.00 U	22.0	61	23-119	10	0-28
11096-82-5	MSD Aroclor-1260	36.3	0.00 U	27.7	76	28-124	9	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-2121	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 965377	Instrument ID:	ECD1A.I_2	Data File:	012b1201-1.d
Lab Sample ID:	1202071391		ECD1A.I_1		012f1201-1.d
Column:	CLP2	Prep Date:	03/15/2010 21:25	Analyzed:	03/16/10 14:16
	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 965377	1202071392	013f1301-1.d 013b1301-1.d	03/16/10	1426
02 RE36-10-7405	248197001	022f2201.d 022b2201.d	03/16/10	1617
03 RE36-10-7403	248197002	023f2301.d 023b2301.d	03/16/10	1630
04 RE36-10-7406	248197003	024f2401.d 024b2401.d	03/16/10	1643
05 RE36-10-7404	248197004	025f2501.d 025b2501.d	03/16/10	1655
06 RE36-10-7516	248197005	026f2601.d 026b2601.d	03/16/10	1708

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-2121
Lab Sample ID: 248197002

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.17 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 14.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7403
Batch ID: 965380
Run Date: 03/16/2010 16:30
Prep Date: 03/15/2010 21:25
Data File: 023f2301.d
023b2301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.86	ug/kg	1.28	3.86	1
11104-28-2	Aroclor-1221	U	3.86	ug/kg	1.28	3.86	1
11141-16-5	Aroclor-1232	U	3.86	ug/kg	1.28	3.86	1
53469-21-9	Aroclor-1242	U	3.86	ug/kg	1.28	3.86	1
12672-29-6	Aroclor-1248	U	3.86	ug/kg	1.28	3.86	1
11097-69-1	Aroclor-1254	P	15.1	ug/kg	1.28	3.86	1
11096-82-5	Aroclor-1260		10.3	ug/kg	1.28	3.86	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/031610a.b/023f2301.d
 Lab Smp Id: 248197002 Client Smp ID: RE36-10-7403
 Inj Date : 16-MAR-2010 16:30
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |248197002|1|
 Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7403|||
 Comment :
 Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
 Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2121.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	30.17000	Weight of sample extracted (g)
M	14.08920	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.913	1.915	-0.002	43511878	111.706	4.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.216	5.220	-0.004	31902273	107.440	4.1	80.00- 120.00	100.00	

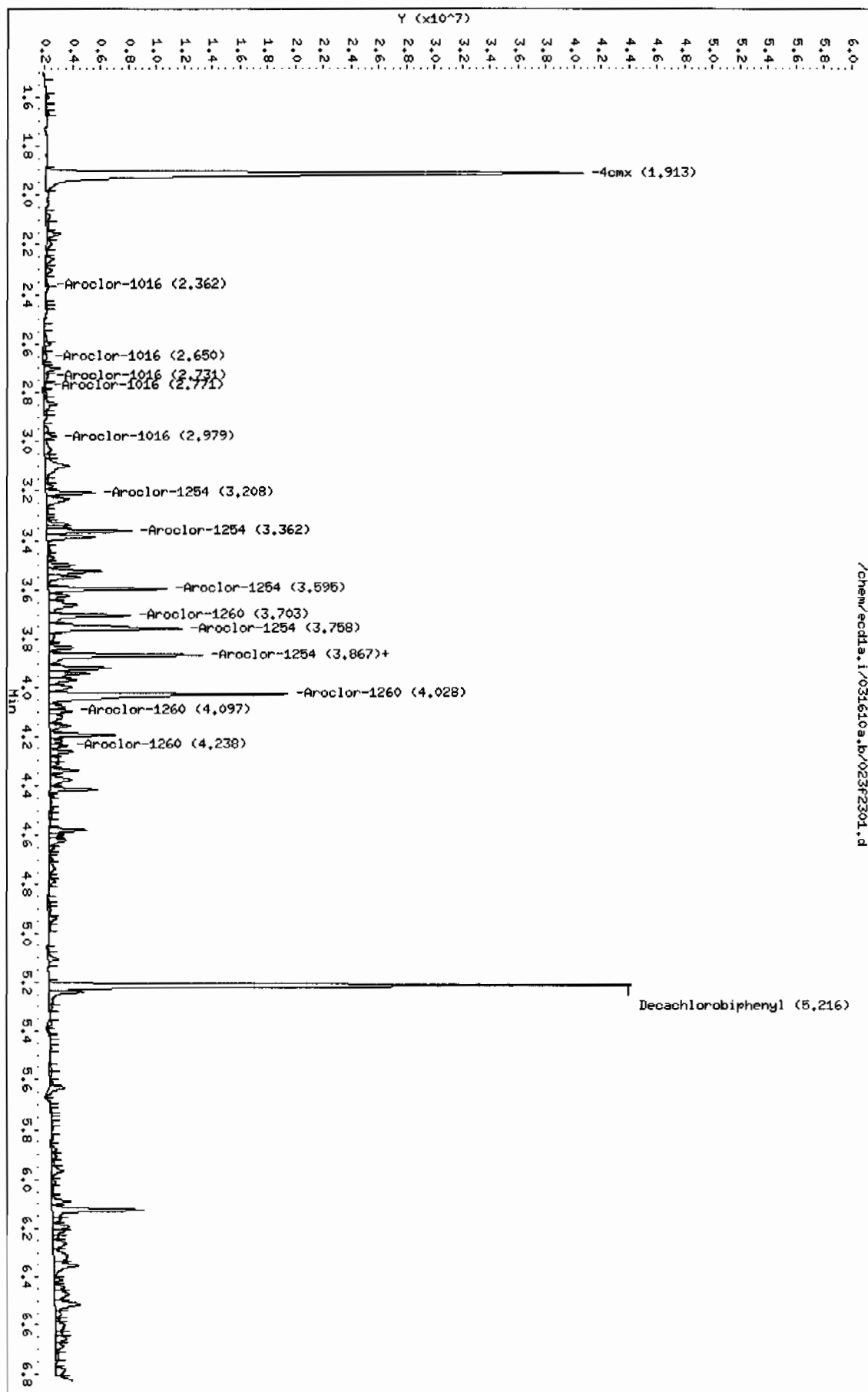
6 Aroclor-1254					CAS #: 11097-69-1			
3.208	3.210	-0.002	2788528	210.265	6.1	80.00- 120.00	100.00	
3.362	3.365	-0.003	4515436	253.202	9.8	115.30- 155.30	161.93	
3.595	3.599	-0.004	6321363	282.566	10.9	155.27- 195.27	226.69	
3.758	3.762	-0.004	10296826	624.427	24.1	110.84- 150.84	369.26	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
6 Aroclor-1254 (continued)								
3.867	3.871	-0.004	9348744	585.599	22.6	110.49- 150.49	335.26	
Average of Peak Concentrations =					15.1			

7 Aroclor-1260					CAS #: 11096-82-5			
3.703	3.707	-0.004	5015151	273.602	10.6	80.00- 120.00	100.00	
3.867	3.870	-0.003	9348744	347.668	13.4	125.99- 165.99	186.41	
4.028	4.032	-0.004	16274143	574.747	22.2	135.74- 175.74	324.50	
4.097	4.100	-0.003	1342046	83.0583	3.2	67.87- 107.87	26.76	
4.238	4.243	-0.005	967991	57.5751	2.2	71.56- 111.56	19.30	
Average of Peak Concentrations =					10.3			

Data File: /chem/ecdda.i/031610a.b/023f2301.d
 Date: 16-MAR-2010 16:30
 Client ID: RE36-10-7403
 Sample Info: 124819700211
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdda.i
 Operator: YSL
 Column diameter: 0.25



Data File: /chem/ecdl1a.i/031610a.b/023b2301.d
Report Date: 17-Mar-2010 08:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/031610a.b/023b2301.d
Lab Smp Id: 248197002 Client Smp ID: RE36-10-7403
Inj Date : 16-MAR-2010 16:30
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |248197002|1|
Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7403|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.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	30.17000	Weight of sample extracted (g)
M	14.08920	% 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							
2.272	2.273	-0.001	28038244 106.880	4.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.913	5.915	-0.002	22648723 121.004	4.7	80.00- 120.00	100.00	

6 Aroclor-1254 CAS #: 11097-69-1							
3.376	3.377	-0.001	610902 101.458	3.9	80.00- 120.00	100.00	
3.797	3.799	-0.002	2003367 185.158	7.1	161.57- 201.57	327.94	
3.913	3.915	-0.002	3223134 270.088	10.4	180.89- 220.89	527.60	
4.188	4.190	-0.002	4939191 300.405	11.6	261.98- 301.98	808.51	

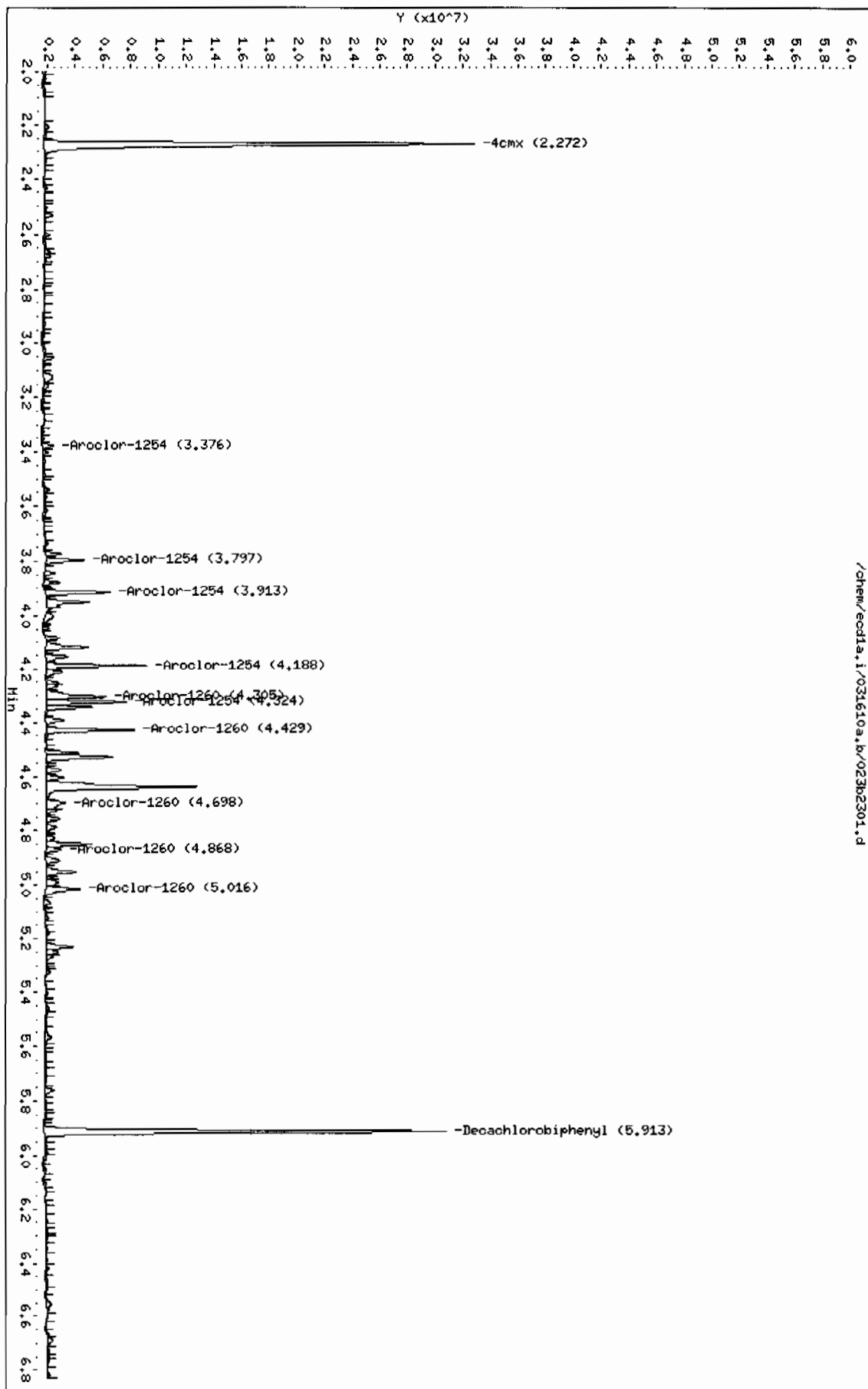
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
6 Aroclor-1254 (continued)								
4.324	4.327	-0.003	3879861	320.239	12.4	186.08-	226.08	635.10
Average of Peak Concentrations =					9.1			

7 Aroclor-1260					CAS #: 11096-82-5			
4.305	4.307	-0.002	3974993	303.893	11.7	80.00-	120.00	100.00
4.429	4.431	-0.002	4618111	297.003	11.4	101.10-	141.10	116.18
4.698	4.698	0.000	1622941	136.427	5.3	71.58-	111.58	40.83
4.868	4.871	-0.003	784752	63.8570	2.5	75.48-	115.48	19.74
5.016	5.018	-0.002	2302959	87.2510	3.4	189.32-	229.32	57.94
Average of Peak Concentrations =					6.9			

Data File: /chem/ecdl1a.i/031610a.b/023b2301.d
Date: 16-MAR-2010 16:30
Client ID: RE36-10-7403
Sample Info: 1248197002111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.i/031610a.b/023b2301.d



PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-2121
Lab Sample ID: 248197004Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 11.9
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	3.78	ug/kg	1.26	3.78	1
11104-28-2	Aroclor-1221	U	3.78	ug/kg	1.26	3.78	1
11141-16-5	Aroclor-1232	U	3.78	ug/kg	1.26	3.78	1
53469-21-9	Aroclor-1242	U	3.78	ug/kg	1.26	3.78	1
12672-29-6	Aroclor-1248	U	3.78	ug/kg	1.26	3.78	1
11097-69-1	Aroclor-1254	P	15.0	ug/kg	1.26	3.78	1
11096-82-5	Aroclor-1260		11.7	ug/kg	1.26	3.78	1

Data File: /chem/ecd1a.i/031610a.b/025f2501.d
Report Date: 17-Mar-2010 08:07

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/031610a.b/025f2501.d

Lab Smp Id: 248197004

Client Smp ID: RE36-10-7404

Inj Date : 16-MAR-2010 16:55

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |248197004|1|

Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7404|

Comment :

Method : /chem/ecd1a.i/031610a.b/ECD1-F-8082-031110b.m

Meth Date : 17-Mar-2010 07:58 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 25

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2121.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	30.02000	Weight of sample extracted (g)
M	11.94220	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11	4cmx						
1.914	1.915	-0.001	43400020	111.418	4.2	80.00- 120.00	100.00
12	Decachlorobiphenyl						
5.214	5.220	-0.006	31417776	105.809	4.0	80.00- 120.00	100.00
6	Aroclor-1254						
3.208	3.210	-0.002	2946301	222.162	8.4	80.00- 120.00	100.00 (M)
3.362	3.365	-0.003	4908294	275.232	10.4	115.30- 155.30	166.59
3.595	3.599	-0.004	7110069	317.821	12.0	155.27- 195.27	241.32
3.757	3.762	-0.005	7724264	468.420	17.7	110.84- 150.84	262.17

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
6 Aroclor-1254 (continued)								
3.866	3.871	-0.005	11242919	704.249	26.6	110.49- 150.49	381.59	
Average of Peak Concentrations =					15.0			

7 Aroclor-1260					CAS #: 11096-82-5			
3.704	3.707	-0.003	5701334	311.037	11.8	80.00- 120.00	100.00 (M)	
3.866	3.870	-0.004	11242919	418.110	15.8	125.99- 165.99	197.20	
4.029	4.032	-0.003	18992592	670.754	25.4	135.74- 175.74	333.13	
4.096	4.100	-0.004	1346198	83.3153	3.2	67.87- 107.87	23.61	
4.239	4.243	-0.004	963419	57.3032	2.2	71.56- 111.56	16.90	
Average of Peak Concentrations =					11.7			

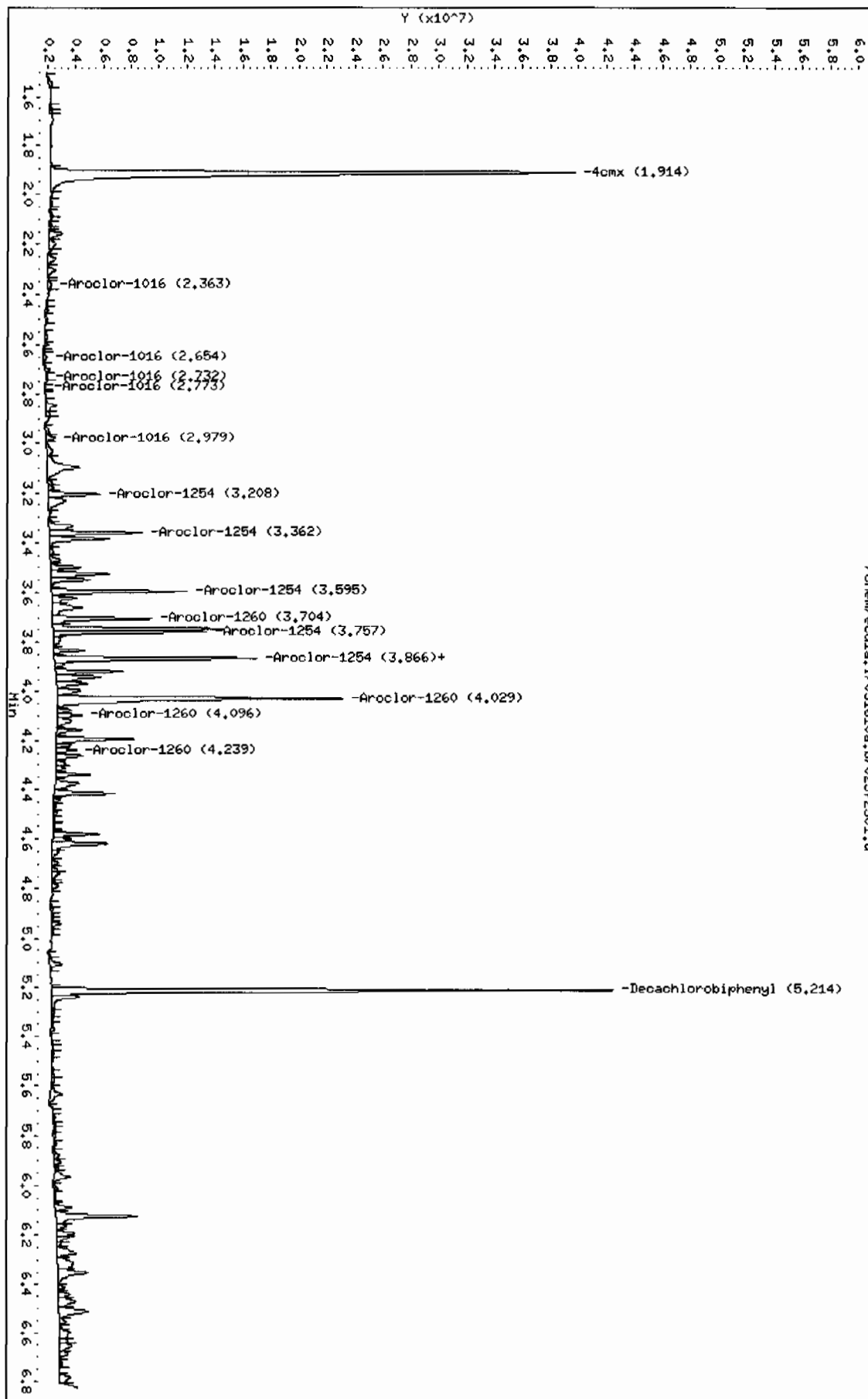
QC Flag Legend

M - Compound response manually integrated.

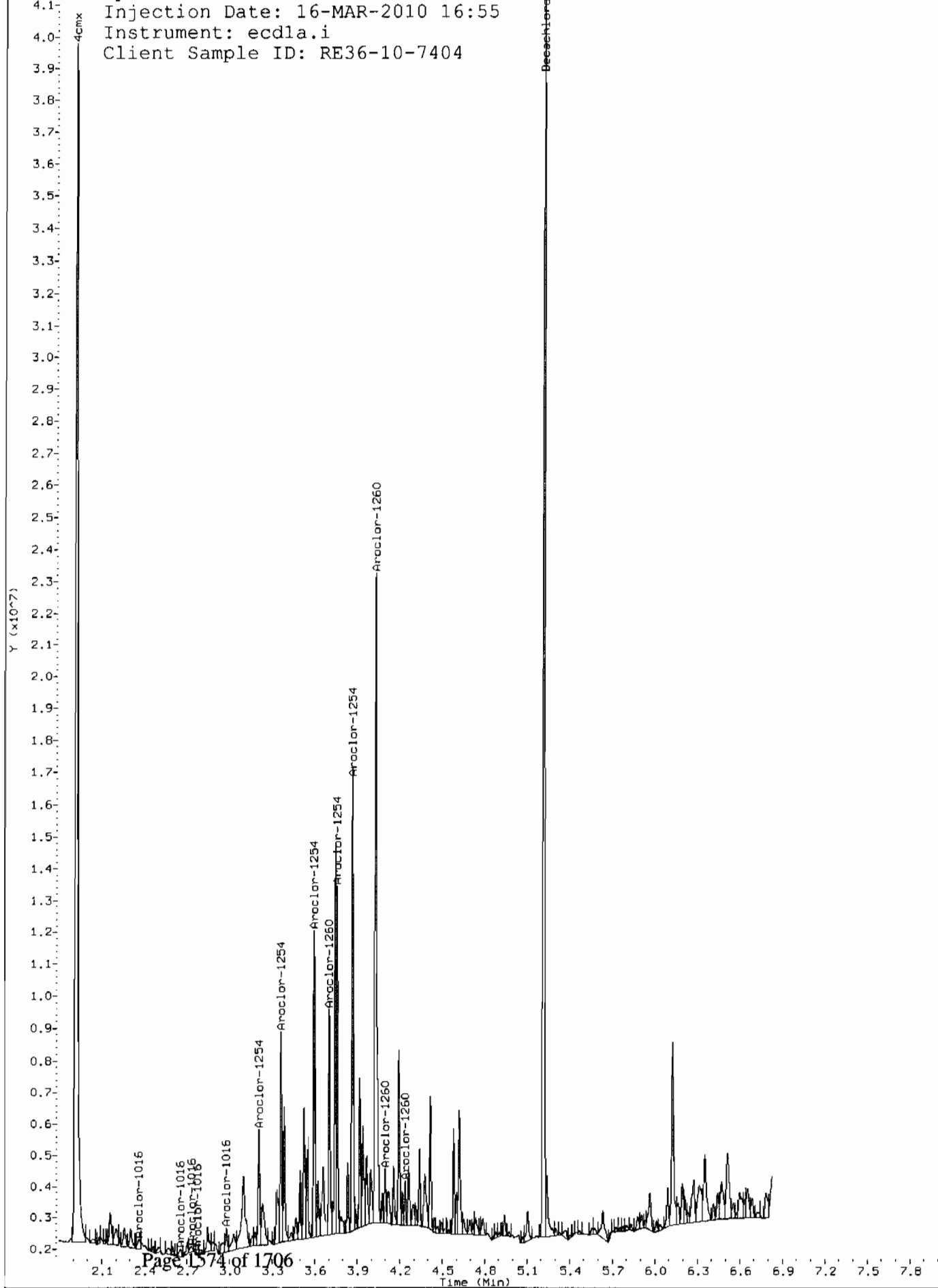
Data File: /chem/ecod1a.i/031610a.b/025f2501.d
Date: 16-HR-2010 16:55
Client ID: RE36-10-7404
Sample Info: 124819700411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod1a.i
Operator: YSI
Column diameter: 0.25

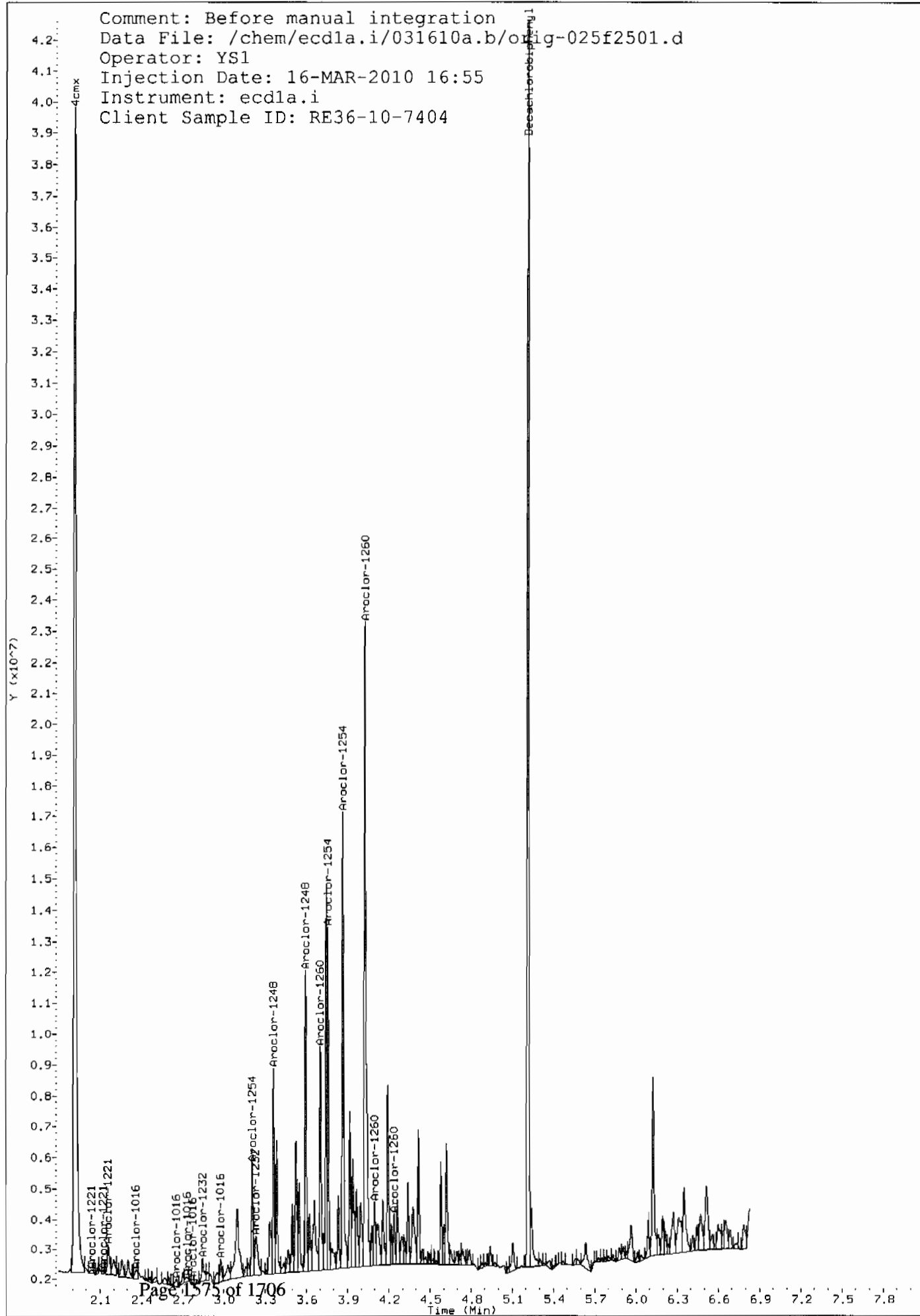
/chem/ecod1a.i/031610a.b/025f2501.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/031610a.b/025f2501.d
Operator: YS1
Injection Date: 16-MAR-2010 16:55
Instrument: ecd1a.i
Client Sample ID: RE36-10-7404



Comment: Before manual integration
Data File: /chem/ecdl1a.i/031610a.b/orig-025f2501.d
Operator: YS1
Injection Date: 16-MAR-2010 16:55
Instrument: ecd1a.i
Client Sample ID: RE36-10-7404



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/025b2501.d
 Lab Smp Id: 248197004 Client Smp ID: RE36-10-7404
 Inj Date : 16-MAR-2010 16:55
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |248197004|1|
 Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7404|||
 Comment :
 Method : /chem/ecdla.i/031610a.b/ECD1-B-8082-031110b.m
 Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2121.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	30.02000	Weight of sample extracted (g)
M	11.94220	% 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				
2.273	2.273	0.000	28682969	109.338	4.1	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
5.914	5.915	-0.001	21669332	115.771	4.4	80.00-	120.00	100.00

6 Aroclor-1254				CAS #: 11097-69-1				
3.377	3.377	0.000	537394	89.2501	3.4	80.00-	120.00	100.00
3.797	3.799	-0.002	2242298	207.240	7.8	161.57-	201.57	417.25
3.914	3.915	-0.001	3350588	280.769	10.6	180.89-	220.89	623.49
4.189	4.190	-0.001	5110647	310.833	11.8	261.98-	301.98	951.00

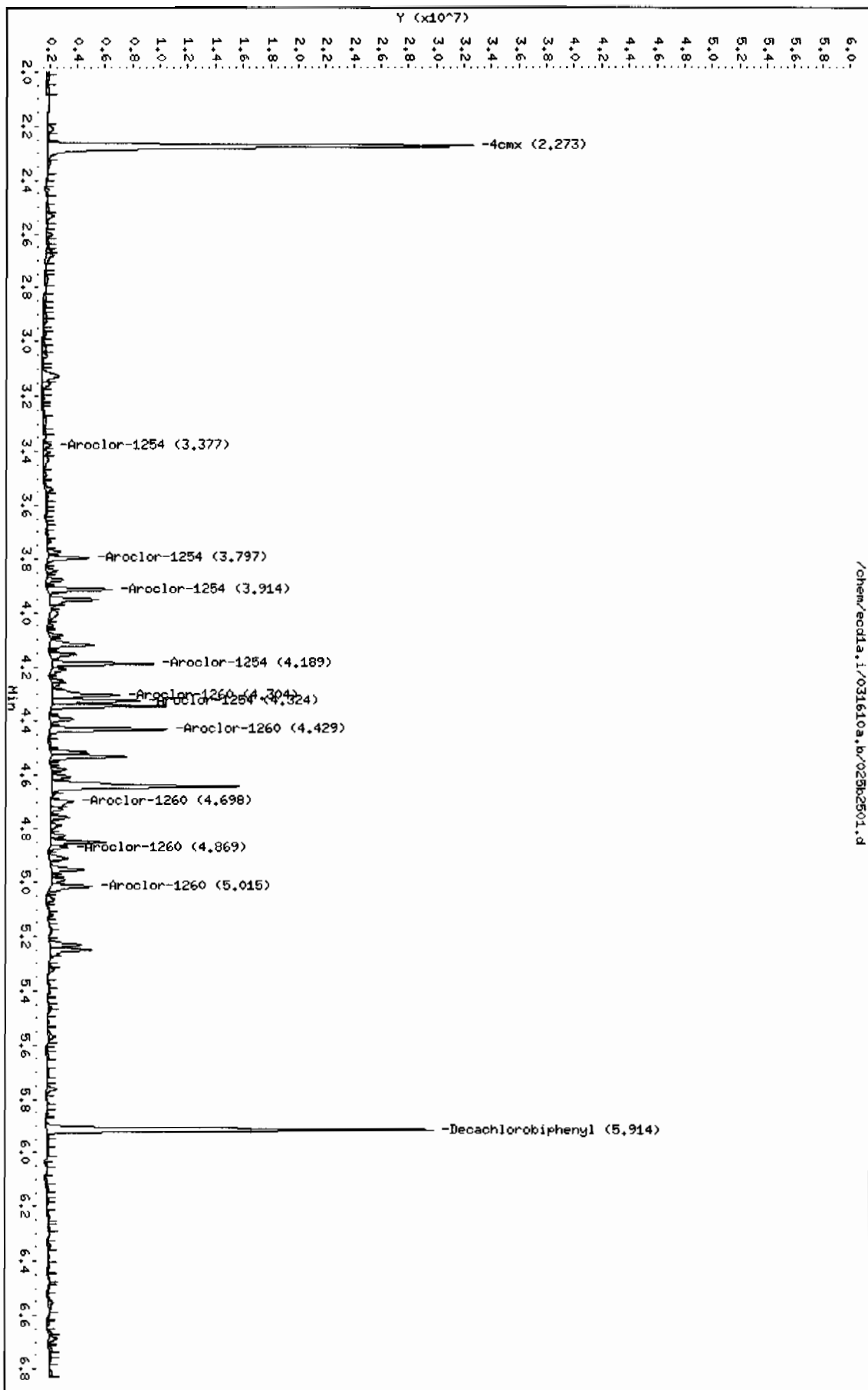
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)							
4.324	4.327	-0.003	4244167	350.308	13.2	186.08- 226.08	789.77
Average of Peak Concentrations =					9.4		

7 Aroclor-1260					CAS #: 11096-82-5		
4.304	4.307	-0.003	4412133	337.313	12.8	80.00- 120.00	100.00
4.429	4.431	-0.002	6016466	386.935	14.6	101.10- 141.10	136.36
4.698	4.698	0.000	1995346	167.732	6.3	71.58- 111.58	45.22
4.869	4.871	-0.002	899886	73.2257	2.8	75.48- 115.48	20.40
5.015	5.018	-0.003	2712513	102.768	3.9	189.32- 229.32	61.48
Average of Peak Concentrations =					8.1		

Data File: /chem/eod1a.i/031610a.b/025b2501.d
Date: 16-MAR-2010 16:55
Client ID: RE36-10-7404
Sample Info: 124819700411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSA
Column diameter: 0.25

/chem/eod1a.i/031610a.b/025b2501.d



PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197001

Date Collected: 02/23/2010 12:00

Date Received: 02/26/2010 08:45

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YSI

Aliquot: 30.11 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 17.5

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	4.03	ug/kg	1.34	4.03	1
11104-28-2	Aroclor-1221	U	4.03	ug/kg	1.34	4.03	1
11141-16-5	Aroclor-1232	U	4.03	ug/kg	1.34	4.03	1
53469-21-9	Aroclor-1242	U	4.03	ug/kg	1.34	4.03	1
12672-29-6	Aroclor-1248	U	4.03	ug/kg	1.34	4.03	1
11097-69-1	Aroclor-1254		7.90	ug/kg	1.34	4.03	1
11096-82-5	Aroclor-1260		5.70	ug/kg	1.34	4.03	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/022f2201.d
Lab Smp Id: 248197001 Client Smp ID: RE36-10-7405
Inj Date : 16-MAR-2010 16:17
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |248197001|1|
Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7405|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.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	30.11000	Weight of sample extracted (g)
M	17.50750	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8							
1.913	1.915	-0.002	42634650	109.453	4.4 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.217	5.220	-0.003	22282801	75.0439	3.0 80.00- 120.00	100.00	

6 Aroclor-1254 CAS #: 11097-69-1							
3.208	3.210	-0.002	1119582	84.4206	3.4 80.00- 120.00	100.00	
3.362	3.365	-0.003	2674642	149.980	6.0 115.30- 155.30	238.90	
3.596	3.599	-0.003	4167032	186.267	7.5 155.27- 195.27	372.20	
3.758	3.762	-0.004	3156099	191.394	7.7 110.84- 150.84	281.90	

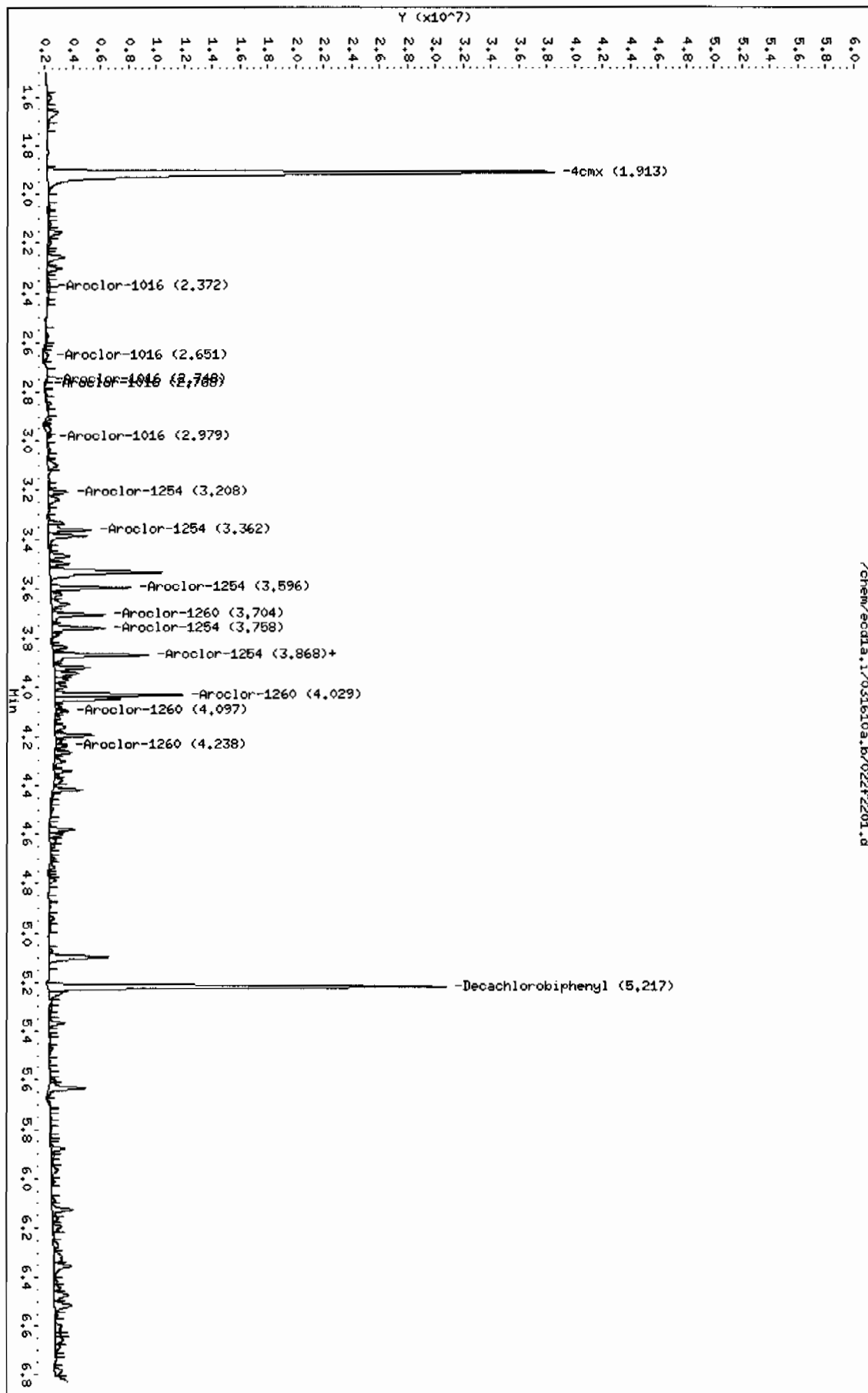
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	-----	=====	
6 Aroclor-1254 (continued)								
3.868	3.871	-0.003	5829394	365.149	14.7	110.49- 150.49	520.68	
Average of Peak Concentrations =					7.9			

7 Aroclor-1260					CAS #: 11096-82-5			
3.704	3.707	-0.003	3153787	172.055	6.9	80.00- 120.00	100.00	
3.868	3.870	-0.002	5829394	216.788	8.7	125.99- 165.99	184.84	
4.029	4.032	-0.003	7113925	251.240	10.1	135.74- 175.74	225.57	
4.097	4.100	-0.003	584856	36.1963	1.4	67.87- 107.87	18.54	
4.238	4.243	-0.005	655511	38.9891	1.6	71.56- 111.56	20.78	
Average of Peak Concentrations =					5.7			

Data File: /chem/ecdda.i/031610a.b/022f2201.d
Date: 16-MAR-2010 16:17
Client ID: RE36-10-7405
Sample Info: 124819700111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

/chem/ecdda.i/031610a.b/022f2201.d



Data File: /chem/ecdl1a.i/031610a.b/022b2201.d
Report Date: 17-Mar-2010 08:02

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/022b2201.d
Lab Smp Id: 248197001 Client Smp ID: RE36-10-7405
Inj Date : 16-MAR-2010 16:17
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |248197001|1|
Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7405|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.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	30.11000	Weight of sample extracted (g)
M	17.50750	% 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						
2.271	2.273	-0.002	27914397 106.408	4.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.913	5.915	-0.002	21508593 114.913	4.6	80.00- 120.00	100.00

6 Aroclor-1254 CAS #: 11097-69-1						
3.378	3.377	0.001	392150 65.1280	2.6	80.00- 120.00	100.00(M)
3.797	3.799	-0.002	867731 80.1985	3.2	161.57- 201.57	221.28
3.914	3.915	-0.001	2106414 176.511	7.1	180.89- 220.89	537.14
4.189	4.190	-0.001	3367253 204.798	8.2	261.98- 301.98	858.66

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)									
4.325	4.327	-0.002	1871248	154.451	6.2	186.08-	226.08	477.18	
Average of Peak Concentrations =					5.5				

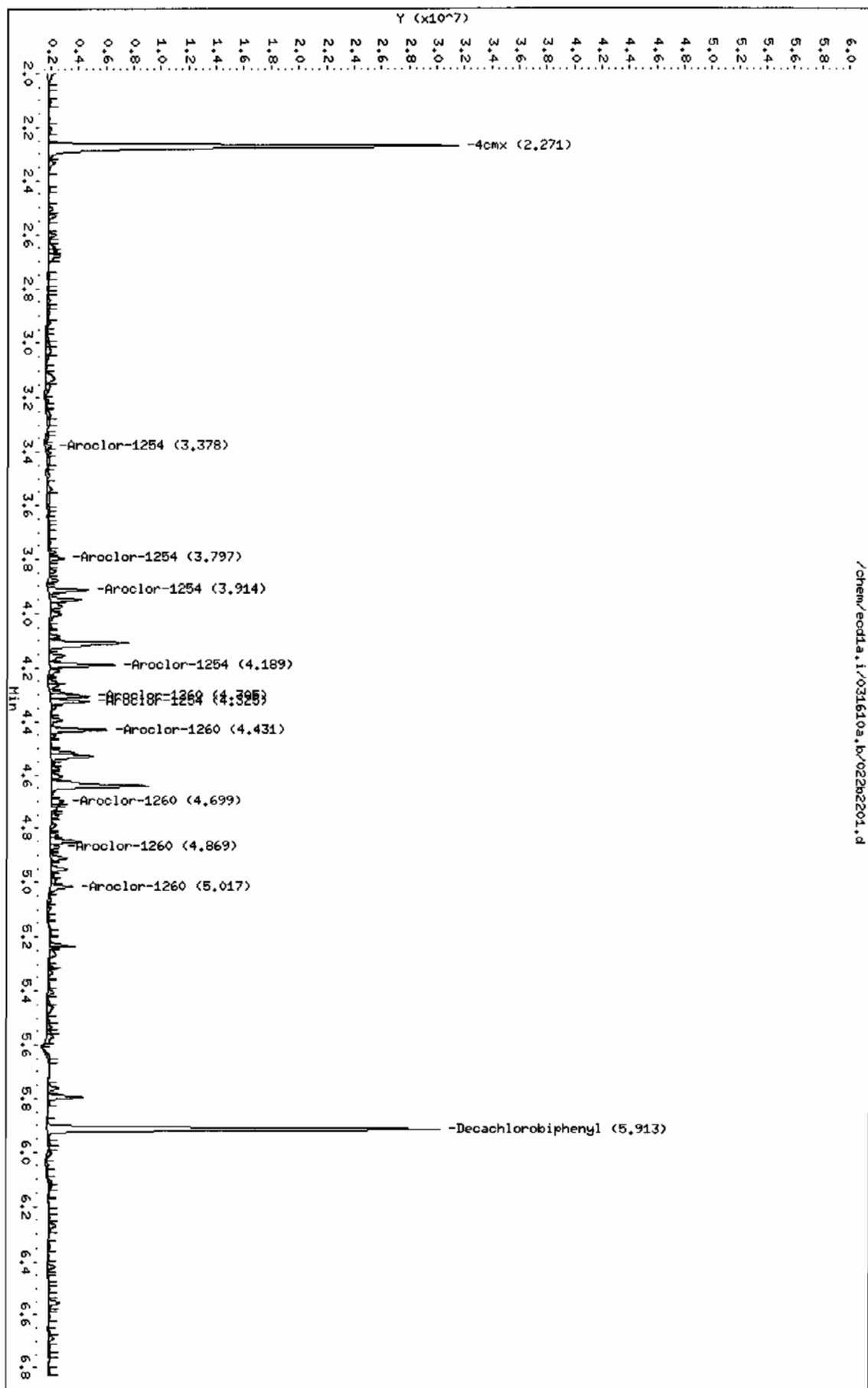
7 Aroclor-1260					CAS #: 11096-82-5				
4.305	4.307	-0.002	2325218	177.766	7.2	80.00-	120.00	100.00 (M)	
4.431	4.431	0.000	2995862	192.672	7.8	101.10-	141.10	128.84	
4.699	4.698	0.001	934596	78.5635	3.2	71.58-	111.58	40.19	
4.869	4.871	-0.002	524815	42.7054	1.7	75.48-	115.48	22.57	
5.017	5.018	-0.001	1375847	52.1260	2.1	189.32-	229.32	59.17	
Average of Peak Concentrations =					4.4				

QC Flag Legend

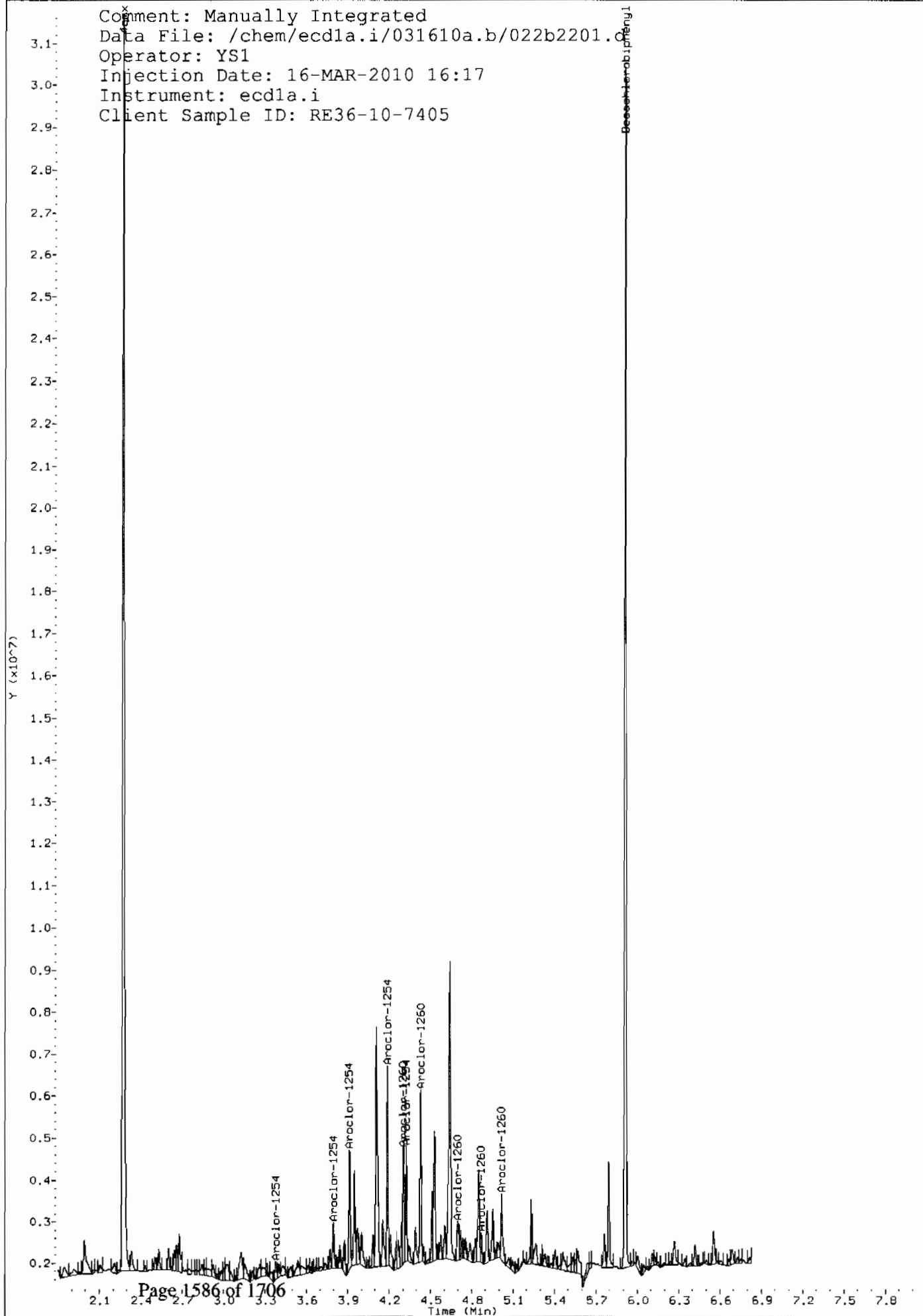
M - Compound response manually integrated.

Data File: /chem/eodla.i/031610a.b/022b2201.d
Date: 16-MAR-2010 16:17
Client ID: RE36-10-7405
Sample Info: 1248197001/11
Volume Injected (uL): 1.0
Column phase: CLP2

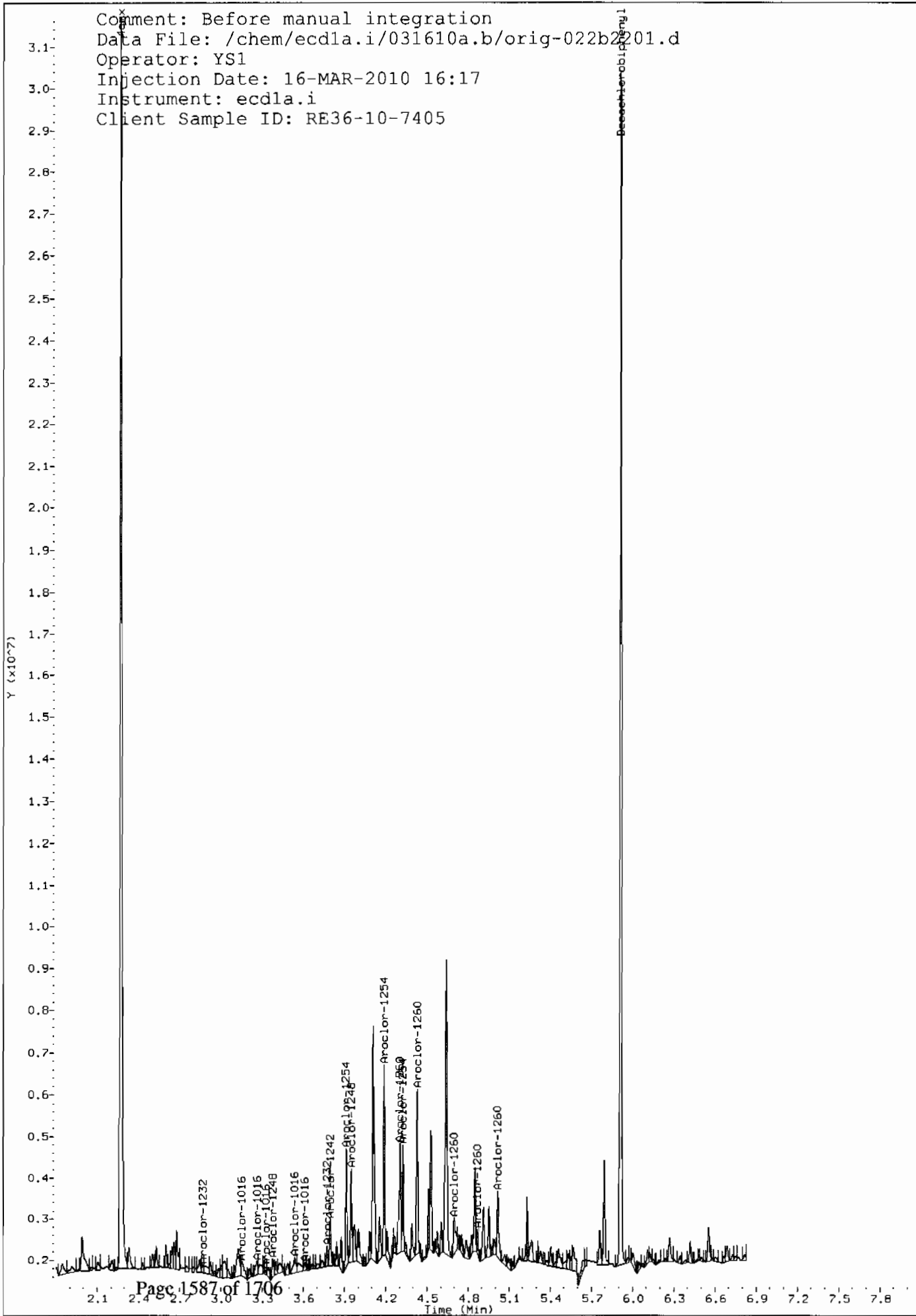
Instrument: eodla.i
Operator: YSA
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/031610a.b/022b2201.c
Operator: YS1
Injection Date: 16-MAR-2010 16:17
Instrument: ecd1a.i
Client Sample ID: RE36-10-7405



Comment: Before manual integration
Data File: /chem/ecdl1.i/031610a.b/orig-022b2001.d
Operator: YS1
Injection Date: 16-MAR-2010 16:17
Instrument: ecd1a.i
Client Sample ID: RE36-10-7405



PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-2121

Lab Sample ID: 248197003

Client ID: RE36-10-7406

Batch ID: 965380

Run Date: 03/16/2010 16:43

Prep Date: 03/15/2010 21:25

Data File: 024f2401.d

024b2401.d

Date Collected: 02/23/2010 12:00

Date Received: 02/26/2010 08:45

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30.15 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 10.4

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.70	ug/kg	1.23	3.70	1
11104-28-2	Aroclor-1221	U	3.70	ug/kg	1.23	3.70	1
11141-16-5	Aroclor-1232	U	3.70	ug/kg	1.23	3.70	1
53469-21-9	Aroclor-1242	U	3.70	ug/kg	1.23	3.70	1
12672-29-6	Aroclor-1248	U	3.70	ug/kg	1.23	3.70	1
11097-69-1	Aroclor-1254	U	3.70	ug/kg	1.23	3.70	1
11096-82-5	Aroclor-1260	U	3.70	ug/kg	1.23	3.70	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/024f2401.d

Lab Smp Id: 248197003

Client Smp ID: RE36-10-7406

Inj Date : 16-MAR-2010 16:43

Operator : YSl

Inst ID: ecdla.i

Smp Info : |248197003|1|

Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7406|||

Comment :

Method : /chem/ecdla.i/031610a.b/ECD1-F-8082-031110b.m

Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 24

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2121.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	30.15000	Weight of sample extracted (g)
M	10.44650	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

			ON-COL		FINAL	TARGET RANGE		RATIO
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.914	1.915	-0.001	46667179	119.806	4.4	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.217	5.220	-0.003	39146023	131.836	4.9	80.00-	120.00	100.00

Data File: /chem/ecdl1a.i/031610a.b/024f2401.d

Date: 16-MAR-2010 16:43

Client ID: RE36-10-7406

Sample Info: 124819700311

Volume Injected (uL): 1.0

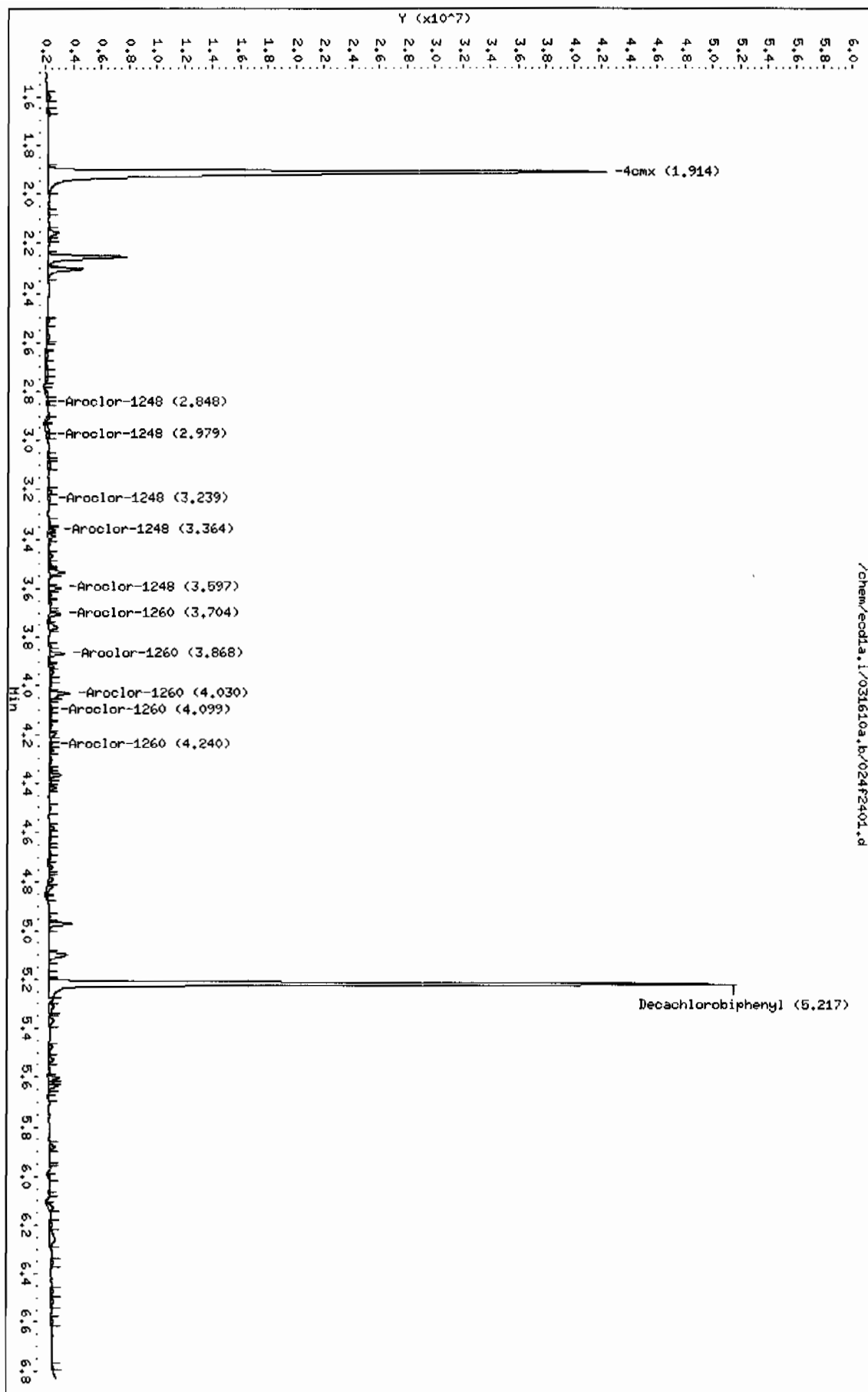
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25

Page 1



Data File: /chem/ecd1a.i/031610a.b/024b2401.d
Report Date: 17-Mar-2010 08:06

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/031610a.b/024b2401.d
Lab Smp Id: 248197003 Client Smp ID: RE36-10-7406
Inj Date : 16-MAR-2010 16:43
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |248197003|1|
Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7406|||
Comment :
Method : /chem/ecd1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1pl1

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	30.15000	Weight of sample extracted (g)
M	10.44650	% Moisture

Cpnd Variable Local Compound Variable

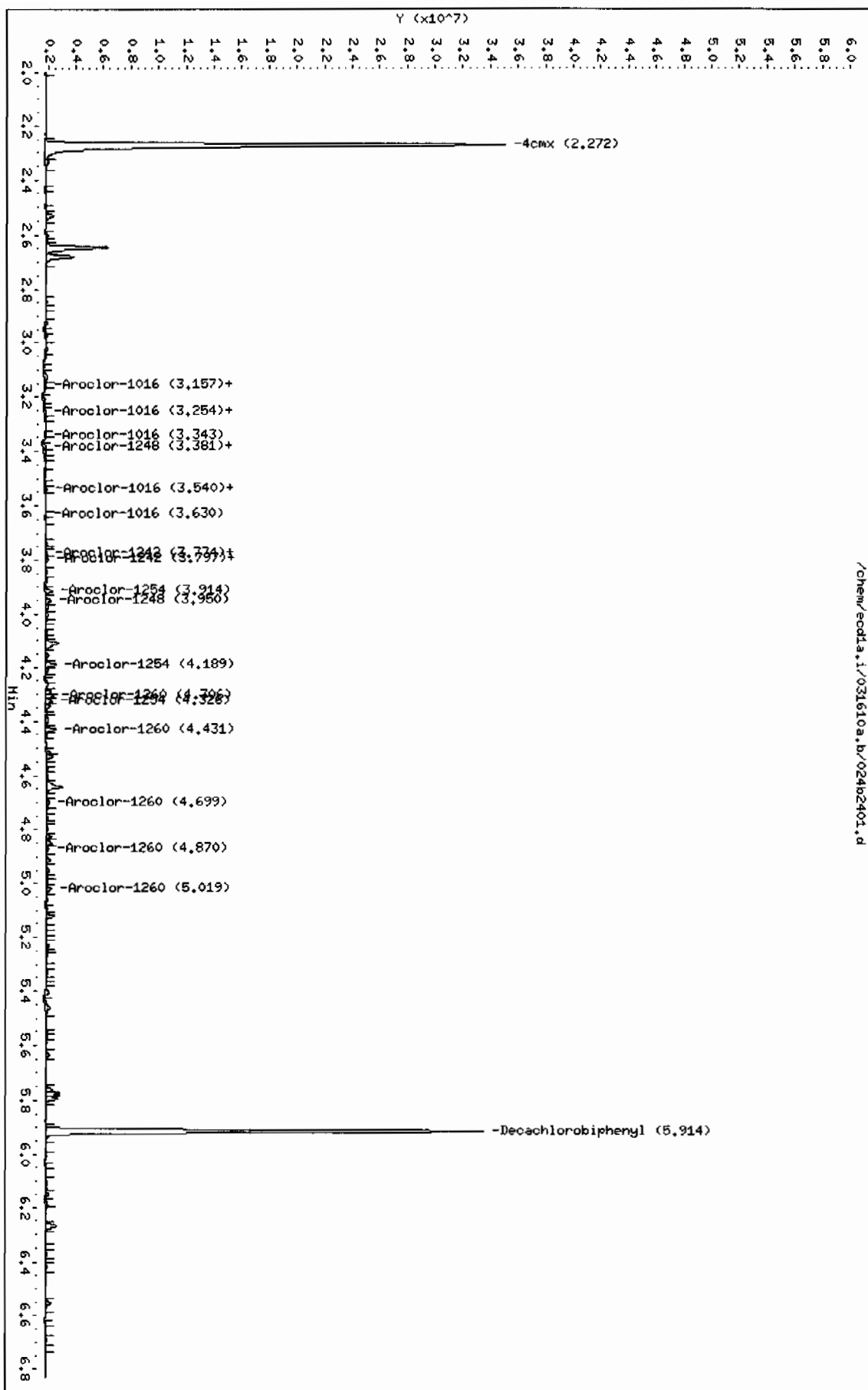
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.272	2.273	-0.001	30889620	117.750	4.4 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.914	5.915	-0.001	23930203	127.850	4.7 80.00- 120.00	100.00

Data File: /chem/ecdl1a.1/031610a.b/024b2401.d
Date: 16-MAR-2010 16:43
Client ID: RE36-10-7406
Sample Info: 124819700311
Volume Injected (ul): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.1/031610a.b/024b2401.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121
Lab Sample ID: 248197005

Date Collected: 02/23/2010 12:00
Date Received: 02/26/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
 2 CLP2

Matrix: R
%Moisture: 18.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE36-10-7516
Batch ID: 965380
Run Date: 03/16/2010 17:08
Prep Date: 03/15/2010 21:25
Data File: 026f2601.d
 026b2601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.06	ug/kg	1.35	4.06	1
11104-28-2	Aroclor-1221	U	4.06	ug/kg	1.35	4.06	1
11141-16-5	Aroclor-1232	U	4.06	ug/kg	1.35	4.06	1
53469-21-9	Aroclor-1242	U	4.06	ug/kg	1.35	4.06	1
12672-29-6	Aroclor-1248	U	4.06	ug/kg	1.35	4.06	1
11097-69-1	Aroclor-1254	P	8.40	ug/kg	1.35	4.06	1
11096-82-5	Aroclor-1260		6.40	ug/kg	1.35	4.06	1

Data File: /chem/ecdl1a.i/031610a.b/026f2601.d
Report Date: 17-Mar-2010 08:09

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/026f2601.d

Lab Smp Id: 248197005

Client Smp ID: RE36-10-7516

Inj Date : 16-MAR-2010 17:08

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |248197005|1|

Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7516|

Comment :

Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m

Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 26

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-2121.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	18.08840	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.913	1.915	-0.002	47344402 121.545	4.9	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.216	5.220	-0.004	35058751 118.071	4.8	80.00- 120.00	100.00
6 Aroclor-1254				CAS #: 11097-69-1		
3.208	3.210	-0.002	1362230 102.717	4.2	80.00- 120.00	100.00 (M)
3.362	3.365	-0.003	2378477 133.373	5.4	115.30- 155.30	174.60
3.596	3.599	-0.003	4368507 195.273	7.9	155.27- 195.27	320.69
3.758	3.762	-0.004	3336813 202.353	8.2	110.84- 150.84	244.95

				CONCENTRATIONS					
				ON-COL	FINAL				
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====		=====	=====	=====	=====		
6 Aroclor-1254 (continued)									
3.867	3.871	-0.004		6333421	396.721	16.1 110.49- 150.49	464.93		
Average of Peak Concentrations =					8.4				

7 Aroclor-1260					CAS #: 11096-82-5				
3.704	3.707	-0.003		3238016	176.650	7.2 80.00- 120.00	100.00 (M)		
3.867	3.870	-0.003		6333421	235.532	9.6 125.99- 165.99	195.60		
4.029	4.032	-0.003		7587067	267.949	10.9 135.74- 175.74	234.31		
4.096	4.100	-0.004		734413	45.4524	1.8 67.87- 107.87	22.68		
4.237	4.243	-0.006		987308	58.7241	2.4 71.56- 111.56	30.49		
Average of Peak Concentrations =					6.4				

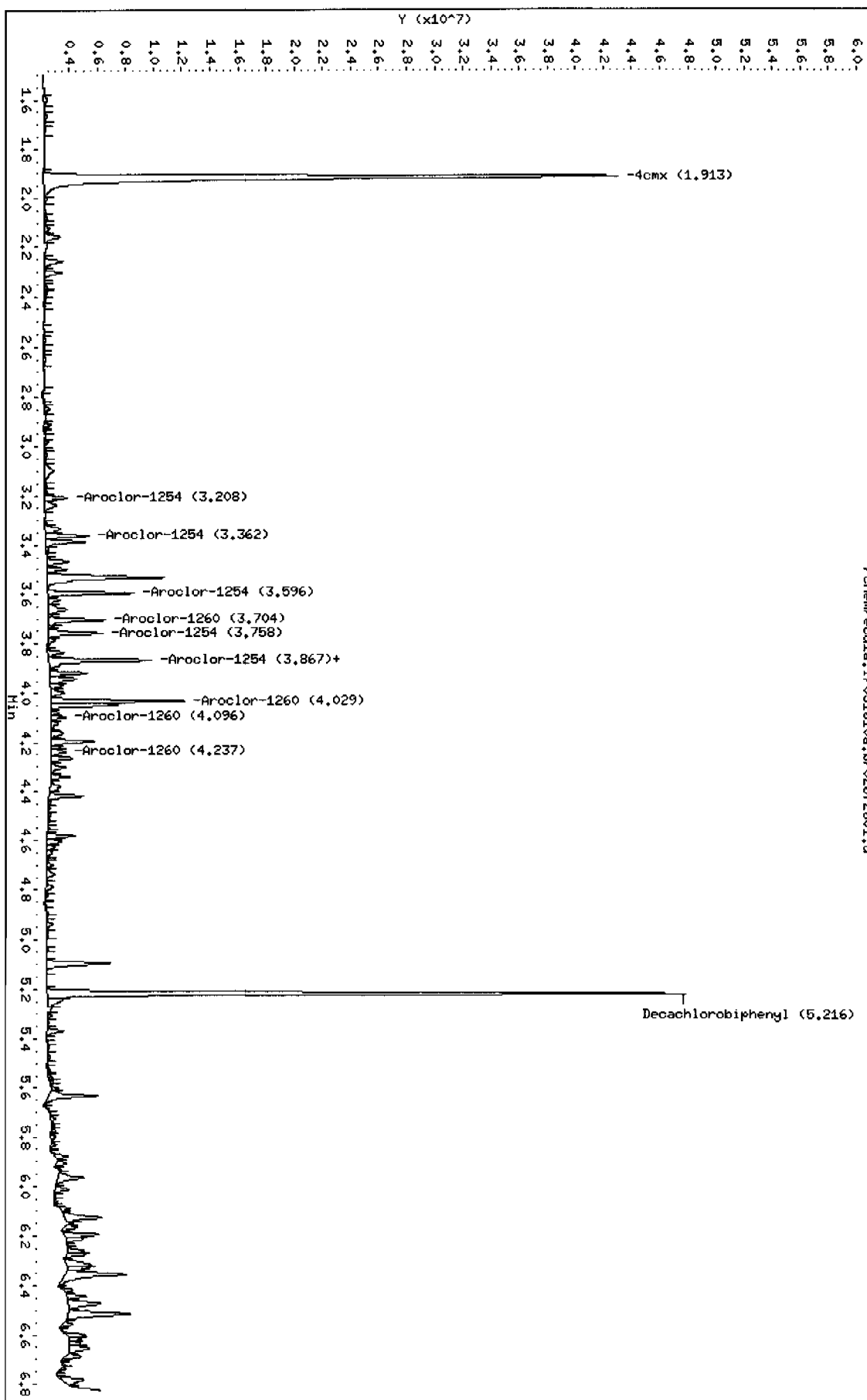
QC Flag Legend

M - Compound response manually integrated.

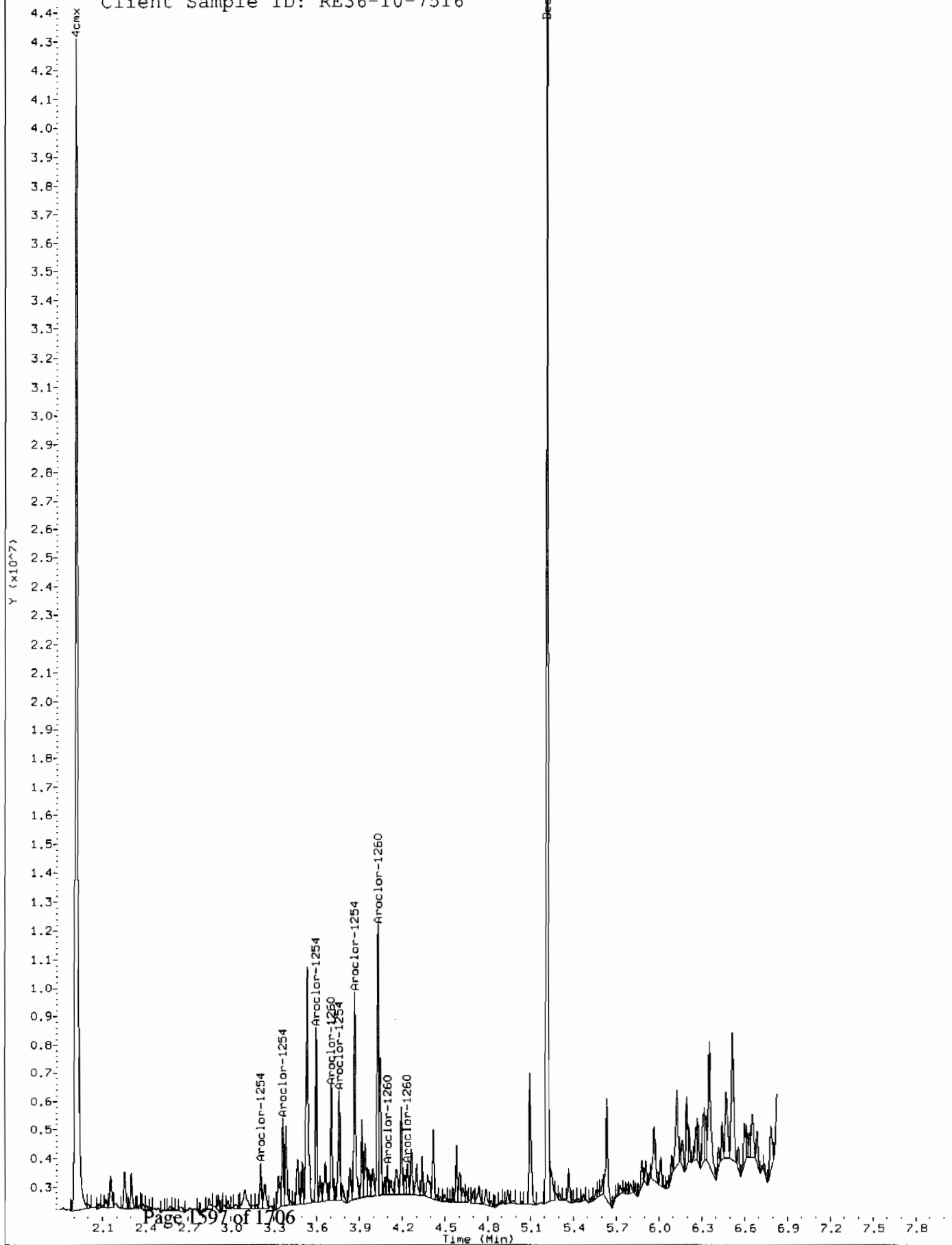
Data File: /chem/eod1a.i/031610a.b/026f2601.d
Date: 16-MAR-2010 17:08
Client ID: RE36-10-7516
Sample Info: 1248197005111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YS4
Column diameter: 0.25

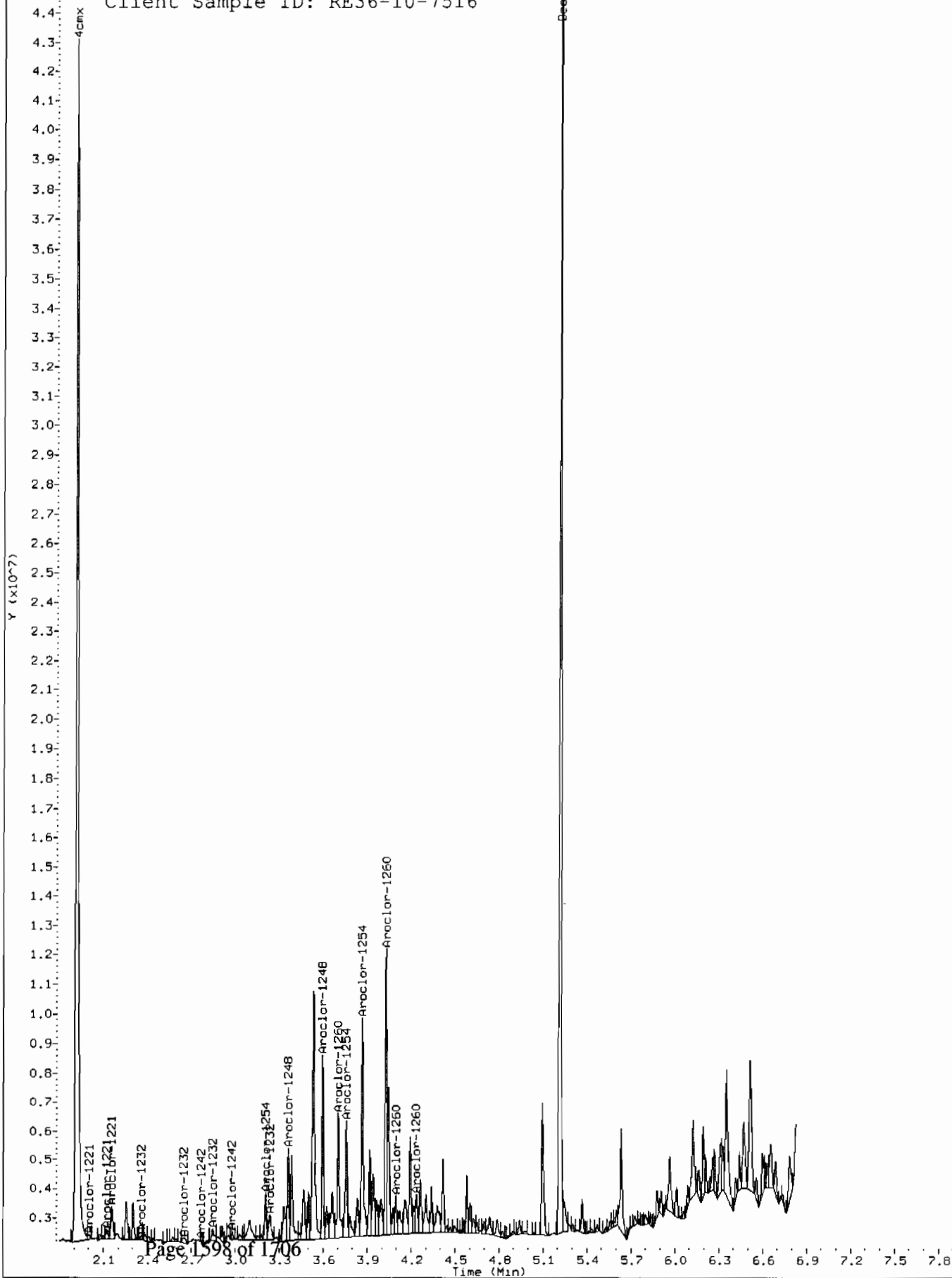
/chem/eod1a.i/031610a.b/026f2601.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/031610a.b/026f2601.d
Operator: YS1
Injection Date: 16-MAR-2010 17:08
Instrument: ecdl1a.i
Client Sample ID: RE36-10-7516



Comment: Before manual integration
Data File: /chem/ecdl1a.i/031610a.b/orig-026f2601.d
Operator: YS1
Injection Date: 16-MAR-2010 17:08
Instrument: ecd1a.i
Client Sample ID: RE36-10-7516



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/026b2601.d
Lab Smp Id: 248197005 Client Smp ID: RE36-10-7516
Inj Date : 16-MAR-2010 17:08
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |248197005|1|
Misc Info : |ECD82P_1S|965380|SVA|LANL|SOIL|RE36-10-7516|1|
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	18.08840	% 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						
2.272	2.273	-0.001	31118070	118.621	4.8 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.913	5.915	-0.002	23124400	123.545	5.0 80.00- 120.00	100.00

6 Aroclor-1254 CAS #: 11097-69-1						
3.377	3.377	0.000	292958	48.6543	2.0 80.00- 120.00	100.00
3.797	3.799	-0.002	1032500	95.4270	3.9 161.57- 201.57	352.44
3.914	3.915	-0.001	2153544	180.460	7.3 180.89- 220.89	735.10
4.189	4.190	-0.001	3373654	205.188	8.3 261.98- 301.98	1151.58

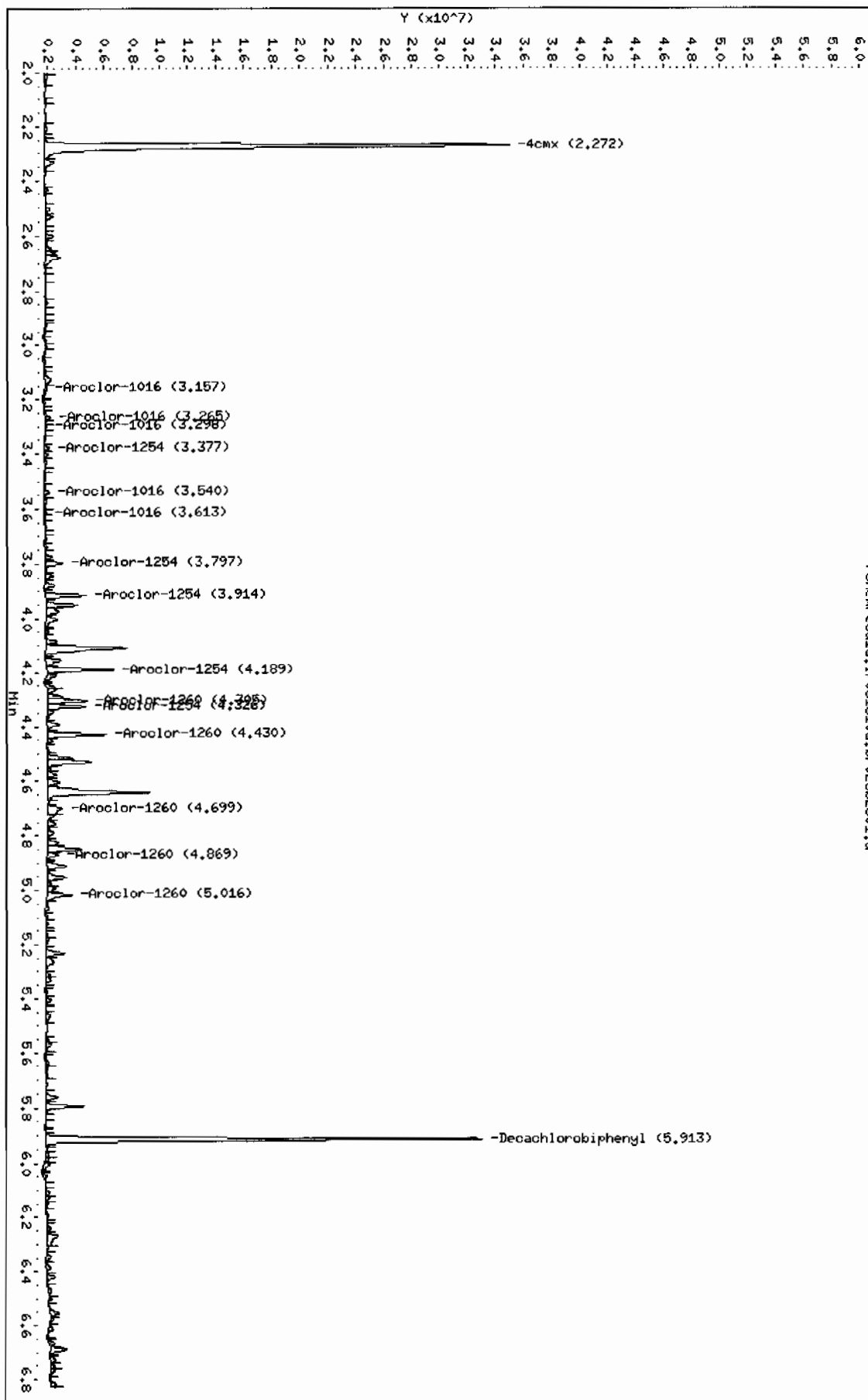
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)							
4.326	4.327	-0.001	1915374	158.093	6.4	186.08- 226.08	653.80
Average of Peak Concentrations =					5.6		

7 Aroclor-1260					CAS #: 11096-82-5		
4.305	4.307	-0.002	2286631	174.816	7.1	80.00- 120.00	100.00
4.430	4.431	-0.001	3009808	193.569	7.9	101.10- 141.10	131.63
4.699	4.698	0.001	1347174	113.245	4.6	71.58- 111.58	58.92
4.869	4.871	-0.002	600486	48.8628	2.0	75.48- 115.48	26.26
5.016	5.018	-0.002	1668496	63.2134	2.6	189.32- 229.32	72.97
Average of Peak Concentrations =					4.8		

Data File: /chem/ecdl1a.i/031610a.b/02662601.d
Date: 16-MAR-2010 17:08
Client ID: RE36-10-7516
Sample Info: 124819700511
Volume Injected (uL): 1.0
Column Phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1a.i/031610a.b/02662601.d



STANDARDS DATA

Report Date: 17-Mar-2010 08:42

Calibration History

Method : /chem/ecd1a.i/031610a.b/ECD1-F-8082-031110b.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 11-MAR-2010 20:22

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecd1a.i/022210.b/032f3201.d
11-MAR-2010 19:40	AR1248	/chem/ecd1a.i/031110b.b/029f2901.d
11-MAR-2010 18:37	AR1242	/chem/ecd1a.i/031110b.b/023f2301.d
11-MAR-2010 17:34	AR1254	/chem/ecd1a.i/031110b.b/017f1701.d
11-MAR-2010 16:31	AR1660	/chem/ecd1a.i/031110b.b/011f1101.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecd1a.i/022210.b/033f3301.d
11-MAR-2010 19:51	AR1248	/chem/ecd1a.i/031110b.b/030f3001.d
11-MAR-2010 18:48	AR1242	/chem/ecd1a.i/031110b.b/024f2401.d
11-MAR-2010 17:45	AR1254	/chem/ecd1a.i/031110b.b/018f1801.d
11-MAR-2010 16:41	AR1660	/chem/ecd1a.i/031110b.b/012f1201.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecd1a.i/022210.b/034f3401.d
11-MAR-2010 20:01	AR1248	/chem/ecd1a.i/031110b.b/031f3101.d
11-MAR-2010 18:58	AR1242	/chem/ecd1a.i/031110b.b/025f2501.d
11-MAR-2010 17:55	AR1254	/chem/ecd1a.i/031110b.b/019f1901.d
11-MAR-2010 16:52	AR1660	/chem/ecd1a.i/031110b.b/013f1301.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecd1a.i/022210.b/035f3501.d
11-MAR-2010 20:12	AR1248	/chem/ecd1a.i/031110b.b/032f3201.d
11-MAR-2010 19:09	AR1242	/chem/ecd1a.i/031110b.b/026f2601.d
11-MAR-2010 18:06	AR1254	/chem/ecd1a.i/031110b.b/020f2001.d
11-MAR-2010 17:02	AR1660	/chem/ecd1a.i/031110b.b/014f1401.d
11-MAR-2010 16:10	AR1262	/chem/ecd1a.i/031110b.b/009f0901.d
11-MAR-2010 15:59	AR1221	/chem/ecd1a.i/031110b.b/008f0801.d
11-MAR-2010 15:49	AR1232	/chem/ecd1a.i/031110b.b/007f0701.d
11-MAR-2010 16:21	DDTANALOGSTD	/chem/ecd1a.i/031110b.b/010f1001.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecd1a.i/022210.b/036f3601.d
11-MAR-2010 20:22	AR1248	/chem/ecd1a.i/031110b.b/033f3301.d
11-MAR-2010 19:19	AR1242	/chem/ecd1a.i/031110b.b/027f2701.d
11-MAR-2010 18:16	AR1254	/chem/ecd1a.i/031110b.b/021f2101.d
11-MAR-2010 17:13	AR1660	/chem/ecd1a.i/031110b.b/015f1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 18:11	|AR1660	|/chem/ecd1a.i/031610a.b/031f3101.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 15:52	|AR1660	|/chem/ecd1a.i/031610a.b/020f2001.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 13:44	|AR1262	|/chem/ecd1a.i/031610a.b/009f0901.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 13:33	|AR1221	|/chem/ecd1a.i/031610a.b/008f0801.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 13:23	|AR1232	|/chem/ecd1a.i/031610a.b/007f0701.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 13:12	|AR1268	|/chem/ecd1a.i/031610a.b/006f0601.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 13:02	|AR1248	|/chem/ecd1a.i/031610a.b/005f0501.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 12:51	|AR1242	|/chem/ecd1a.i/031610a.b/004f0401.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 12:41	|AR1254	|/chem/ecd1a.i/031610a.b/003f0301.d
| Ccal Level: 4 , Ccal Amount: 1000		
|16-MAR-2010 12:30	|AR1660	|/chem/ecd1a.i/031610a.b/002f0201.d

Report Date: 17-Mar-2010 08:42

Calibration History

Method : /chem/ecd1a.i/031610a.b/ECD1-B-8082-031110b.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 11-MAR-2010 20:22

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecd1a.i/022210.b/032b3201.d
11-MAR-2010 19:40	AR1248	/chem/ecd1a.i/031110b.b/029b2901.d
11-MAR-2010 18:37	AR1242	/chem/ecd1a.i/031110b.b/023b2301.d
11-MAR-2010 17:34	AR1254	/chem/ecd1a.i/031110b.b/017b1701.d
11-MAR-2010 16:31	AR1660	/chem/ecd1a.i/031110b.b/011b1101.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecd1a.i/022210.b/033b3301.d
11-MAR-2010 19:51	AR1248	/chem/ecd1a.i/031110b.b/030b3001.d
11-MAR-2010 18:48	AR1242	/chem/ecd1a.i/031110b.b/024b2401.d
11-MAR-2010 17:45	AR1254	/chem/ecd1a.i/031110b.b/018b1801.d
11-MAR-2010 16:41	AR1660	/chem/ecd1a.i/031110b.b/012b1201.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecd1a.i/022210.b/034b3401.d
11-MAR-2010 20:01	AR1248	/chem/ecd1a.i/031110b.b/031b3101.d
11-MAR-2010 18:58	AR1242	/chem/ecd1a.i/031110b.b/025b2501.d
11-MAR-2010 17:55	AR1254	/chem/ecd1a.i/031110b.b/019b1901.d
11-MAR-2010 16:52	AR1660	/chem/ecd1a.i/031110b.b/013b1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecd1a.i/022210.b/035b3501.d
11-MAR-2010 20:12	AR1248	/chem/ecd1a.i/031110b.b/032b3201.d
11-MAR-2010 19:09	AR1242	/chem/ecd1a.i/031110b.b/026b2601.d
11-MAR-2010 18:06	AR1254	/chem/ecd1a.i/031110b.b/020b2001.d
11-MAR-2010 17:02	AR1660	/chem/ecd1a.i/031110b.b/014b1401.d
11-MAR-2010 16:10	AR1262	/chem/ecd1a.i/031110b.b/009b0901.d
11-MAR-2010 15:59	AR1221	/chem/ecd1a.i/031110b.b/008b0801.d
11-MAR-2010 15:49	AR1232	/chem/ecd1a.i/031110b.b/007b0701.d
11-MAR-2010 16:21	DDTANALOGSTD	/chem/ecd1a.i/031110b.b/010b1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecd1a.i/022210.b/036b3601.d
11-MAR-2010 20:22	AR1248	/chem/ecd1a.i/031110b.b/033b3301.d
11-MAR-2010 19:19	AR1242	/chem/ecd1a.i/031110b.b/027b2701.d
11-MAR-2010 18:16	AR1254	/chem/ecd1a.i/031110b.b/021b2101.d
11-MAR-2010 17:13	AR1660	/chem/ecd1a.i/031110b.b/015b1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 18:11 |	| AR1660	| /chem/ecdl1a.i/031610a.b/031b3101.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 15:52 |	| AR1660	| /chem/ecdl1a.i/031610a.b/020b2001.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 13:44 |	| AR1262	| /chem/ecdl1a.i/031610a.b/009b0901.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 13:33 |	| AR1221	| /chem/ecdl1a.i/031610a.b/008b0801.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 13:23 |	| AR1232	| /chem/ecdl1a.i/031610a.b/007b0701.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 13:12 |	| AR1268	| /chem/ecdl1a.i/031610a.b/006b0601.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 13:02 |	| AR1248	| /chem/ecdl1a.i/031610a.b/005b0501.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 12:51 |	| AR1242	| /chem/ecdl1a.i/031610a.b/004b0401.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 12:41 |	| AR1254	| /chem/ecdl1a.i/031610a.b/003b0301.d
| Ccal Level: 4 , Ccal Amount: 1000		
| 16-MAR-2010 12:30 |	| AR1660	| /chem/ecdl1a.i/031610a.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 17-Mar-2010 07:58 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

 Initial:Start Threshold 12031.000000
 Initial:End Threshold 6015.500000
 Initial:Area Threshold 15489.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.366	2.336-2.396	1.518e+04
	2.654	2.624-2.684	1.894e+04
	2.734	2.704-2.764	1.244e+04
	2.771	2.741-2.801	7.348e+03
	2.982	2.952-3.012	9.518e+03
63 4,4-DDD	3.888	3.868-3.908	3.140e+05
64 4,4-DDE	3.539	3.519-3.559	3.727e+05
62 4,4-DDT	4.052	4.032-4.072	2.363e+05
2 Aroclor-1221	2.026	1.996-2.056	4.466e+03
	2.119	2.089-2.149	2.447e+03
	2.145	2.115-2.175	1.083e+04
3 Aroclor-1232	2.368	2.338-2.398	6.667e+03
	2.654	2.624-2.684	8.344e+03
	2.734	2.704-2.764	5.531e+03
	2.848	2.818-2.878	2.649e+03
4 Aroclor-1242	3.235	3.205-3.265	3.555e+03
	2.366	2.336-2.396	1.233e+04
	2.654	2.624-2.684	1.490e+04
	2.771	2.741-2.801	5.896e+03
	2.981	2.951-3.011	7.735e+03
	3.235	3.205-3.265	7.285e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m

Compound	RT	RT Window	RF
5 Aroclor-1248	2.848	2.818-2.878	1.000e+04
	2.981	2.951-3.011	1.314e+04
	3.235	3.205-3.265	1.430e+04
	3.366	3.336-3.396	1.190e+04
	3.599	3.569-3.629	8.005e+03
6 Aroclor-1254	3.210	3.180-3.240	1.326e+04
	3.365	3.335-3.395	1.783e+04
	3.599	3.569-3.629	2.237e+04
	3.762	3.732-3.792	1.649e+04
	3.871	3.841-3.901	1.596e+04
7 Aroclor-1260	3.707	3.677-3.737	1.833e+04
	3.870	3.840-3.900	2.689e+04
	4.032	4.002-4.062	2.832e+04
	4.100	4.070-4.130	1.616e+04
	4.243	4.213-4.273	1.681e+04
8 Aroclor-1262	3.707	3.677-3.737	1.423e+04
	3.869	3.839-3.899	1.874e+04
	4.100	4.070-4.130	2.315e+04
	4.244	4.214-4.274	2.110e+04
	4.422	4.392-4.452	4.350e+04
9 Aroclor-1268	4.606	4.576-4.636	4.848e+04
	4.629	4.599-4.659	5.448e+04
	4.741	4.711-4.771	3.862e+04
	4.944	4.914-4.974	1.635e+04
	5.109	5.079-5.139	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.915	1.885-1.945	3.895e+05
\$ 12 Decachlorobiphenyl	5.220	5.190-5.250	2.969e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 17-Mar-2010 07:58 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

 Initial:Start Threshold 7222.000000
 Initial:End Threshold 3611.000000
 Initial:Area Threshold 6833.000000
 Initial:P-P Resolution 0.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.168	3.138-3.198	1.258e+04
	3.251	3.221-3.281	8.634e+03
	3.315	3.285-3.345	5.287e+03
	3.541	3.511-3.571	6.893e+03
	3.617	3.587-3.647	6.423e+03
62 4,4-DDT	4.642	4.622-4.662	7.489e+04
63 4,4-DDE	4.111	4.091-4.131	2.469e+05
64 4,4-DDD	4.455	4.435-4.475	1.989e+05
2 Aroclor-1221	2.469	2.439-2.499	3.250e+03
	2.564	2.534-2.594	2.084e+03
	2.605	2.575-2.635	7.320e+03
3 Aroclor-1232	2.871	2.841-2.901	5.054e+03
	3.168	3.138-3.198	5.712e+03
	3.251	3.221-3.281	3.888e+03
	3.542	3.512-3.572	2.840e+03
4 Aroclor-1242	3.775	3.745-3.805	2.821e+03
	3.168	3.138-3.198	1.014e+04
	3.251	3.221-3.281	7.097e+03
	3.541	3.511-3.571	5.514e+03
	3.776	3.746-3.806	5.722e+03
	3.803	3.773-3.833	6.370e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/031610a.b/ECD1-B-8082-031110b.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.377	3.347-3.407	7.604e+03
	3.541	3.511-3.571	9.470e+03
	3.776	3.746-3.806	1.093e+04
	3.803	3.773-3.833	1.216e+04
	3.940	3.910-3.970	1.181e+04
6 Aroclor-1254	3.377	3.347-3.407	6.021e+03
	3.799	3.769-3.829	1.082e+04
	3.915	3.885-3.945	1.193e+04
	4.190	4.160-4.220	1.644e+04
	4.327	4.297-4.357	1.212e+04
7 Aroclor-1260	4.307	4.277-4.337	1.308e+04
	4.431	4.401-4.461	1.555e+04
	4.698	4.668-4.728	1.190e+04
	4.871	4.841-4.901	1.229e+04
	5.018	4.988-5.048	2.639e+04
8 Aroclor-1262	4.432	4.402-4.462	1.160e+04
	4.698	4.668-4.728	1.620e+04
	4.871	4.841-4.901	1.484e+04
	5.018	4.988-5.048	2.937e+04
	5.231	5.201-5.261	2.065e+04
9 Aroclor-1268	5.229	5.199-5.259	3.730e+04
	5.257	5.227-5.287	3.492e+04
	5.406	5.376-5.436	2.658e+04
	5.570	5.540-5.601	1.223e+04
	5.763	5.733-5.793	7.433e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.273	2.243-2.303	2.623e+05
\$ 12 Decachlorobiphenyl	5.915	5.885-5.945	1.872e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 11-MAR-2010 20:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
 Cal Date : 17-Mar-2010 07:58 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/022210.b/032f3201.d
 Level 2: /chem/ecdl1a.i/022210.b/033f3301.d
 Level 3: /chem/ecdl1a.i/022210.b/034f3401.d
 Level 4: /chem/ecdl1a.i/022210.b/035f3501.d
 Level 5: /chem/ecdl1a.i/022210.b/036f3601.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)	17517	15916	14941	14342	13168	15177	10.833
(2)	20378	19291	18809	18310	17891	18936	5.082
(3)	13830	13020	12255	11836	11271	12442	8.071
(4)	7957	7573	7201	7091	6919	7348	5.665
(5)	10680	9850	9332	8998	8729	9518	8.119
63 4,4-DDD	+++++	+++++	+++++	313980	+++++	313980	0.000
64 4,4-DDE	+++++	+++++	+++++	372684	+++++	372684	0.000
62 4,4-DDT	+++++	+++++	+++++	236265	+++++	236265	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4466	+++++	4466	0.000
(2)	+++++	+++++	+++++	2447	+++++	2447	0.000
(3)	+++++	+++++	+++++	10828	+++++	10828	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	6667	+++++	6667	0.000
(2)	+++++	+++++	+++++	8344	+++++	8344	0.000
(3)	+++++	+++++	+++++	5531	+++++	5531	0.000
(4)	+++++	+++++	+++++	2649	+++++	2649	0.000
(5)	+++++	+++++	+++++	3555	+++++	3555	0.000
4 Aroclor-1242(1)	14179	12973	12200	11692	10617	12332	10.871
(2)	16141	15119	14927	14559	13766	14903	5.801
(3)	6352	6182	5816	5703	5424	5896	6.324
(4)	8823	8005	7582	7293	6975	7735	9.260
(5)	7955	7511	7149	7022	6787	7285	6.273
5 Aroclor-1248(1)	11183	10572	9738	9526	8980	10000	8.748
(2)	14876	13683	12753	12517	11873	13140	8.885
(3)	15448	14508	14083	13911	13564	14303	5.068
(4)	13161	12385	11501	11480	10960	11898	7.335
(5)	8649	8385	7955	7608	7427	8005	6.411

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 11-MAR-2010 20:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd1a.i/031610a.b/ECD1-F-8082-031110b.m
 Cal Date : 17-Mar-2010 07:58 yip00818
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
6 Aroclor-1254(1)	15079	13757	12872	12576	12027	13262	8.998
(2)	20126	18408	17163	17147	16322	17833	8.313
(3)	24516	23104	21642	21571	21024	22371	6.372
(4)	18056	17097	15691	15840	15766	16490	6.365
(5)	18024	16683	15151	15091	14874	15964	8.504
7 Aroclor-1260(1)	20231	18737	18018	17739	16925	18330	6.792
(2)	29345	27114	26401	26314	25275	26890	5.656
(3)	30716	28501	27786	27176	27398	28315	5.062
(4)	17775	16311	15776	15627	15300	16158	6.034
(5)	18203	16850	16463	16434	16114	16813	4.876
8 Aroclor-1262(1)	++++	++++	++++	14232	++++	14232	0.000
(2)	++++	++++	++++	18742	++++	18742	0.000
(3)	++++	++++	++++	23151	++++	23151	0.000
(4)	++++	++++	++++	21098	++++	21098	0.000
(5)	++++	++++	++++	43500	++++	43500	0.000
9 Aroclor-1268(1)	49163	48928	48151	48132	48019	48478	1.086
(2)	55254	54719	54718	54649	53075	54483	1.512
(3)	39937	38826	38121	38191	38006	38616	2.083
(4)	16234	16191	16152	16347	16815	16348	1.657
(5)	114910	115297	111446	111050	107804	112101	2.753
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
11 4cmx	407603	391717	384007	385362	378927	389523	2.846
12 Decachlorobiphenyl	324859	292709	291687	292552	282844	296930	5.438

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 11-MAR-2010 20:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
 Cal Date : 17-Mar-2010 07:58 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/022210.b/032b3201.d
 Level 2: /chem/ecdl1a.i/022210.b/033b3301.d
 Level 3: /chem/ecdl1a.i/022210.b/034b3401.d
 Level 4: /chem/ecdl1a.i/022210.b/035b3501.d
 Level 5: /chem/ecdl1a.i/022210.b/036b3601.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)	14376	12782	12025	12307	11436	12585	8.846
(2)	10090	9074	8445	8099	7462	8634	11.594
(3)	6137	5472	5151	4973	4701	5287	10.435
(4)	7962	7103	6817	6522	6060	6893	10.318
(5)	7497	6686	6263	5965	5703	6423	10.948
62 4,4-DDT	++++	++++	++++	74891	++++	74891	0.000
63 4,4-DDE	++++	++++	++++	246875	++++	246875	0.000
64 4,4-DDD	++++	++++	++++	198885	++++	198885	0.000
2 Aroclor-1221(1)	++++	++++	++++	3250	++++	3250	0.000
(2)	++++	++++	++++	2084	++++	2084	0.000
(3)	++++	++++	++++	7320	++++	7320	0.000
3 Aroclor-1232(1)	++++	++++	++++	5054	++++	5054	0.000
(2)	++++	++++	++++	5712	++++	5712	0.000
(3)	++++	++++	++++	3888	++++	3888	0.000
(4)	++++	++++	++++	2840	++++	2840	0.000
(5)	++++	++++	++++	2821	++++	2821	0.000
4 Aroclor-1242(1)	11230	10514	10117	9526	9309	10139	7.634
(2)	8350	7546	6909	6642	6036	7097	12.487
(3)	6442	5836	5387	5177	4727	5514	11.868
(4)	6626	6011	5573	5400	4999	5722	10.877
(5)	7365	6655	6241	6005	5582	6370	10.658
5 Aroclor-1248(1)	9056	8166	7435	6980	6383	7604	13.684
(2)	11093	10088	9257	8814	8097	9470	12.242
(3)	12505	11602	10677	10284	9581	10930	10.466
(4)	13890	12873	11986	11379	10657	12157	10.405
(5)	13590	12468	11541	11009	10453	11812	10.502

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 11-MAR-2010 20:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
 Cal Date : 17-Mar-2010 07:58 yip00818
 Curve Type : Average

	100.000	250.000	500.000	1000.000	4000.000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
6 Aroclor-1254(1)	7300	6493	5824	5480	5009	6021	14.886
(2)	12825	11548	10490	9974	9262	10820	12.909
(3)	14182	12643	11550	11031	10262	11934	12.788
(4)	19027	17317	15983	15442	14439	16442	10.826
(5)	14064	13049	11651	11174	10640	12116	11.634
7 Aroclor-1260(1)	15189	13569	12744	12369	11530	13080	10.610
(2)	17885	16016	15152	14853	13838	15549	9.776
(3)	13812	12250	11562	11271	10585	11896	10.311
(4)	14218	12635	11954	11625	11015	12289	9.981
(5)	29595	26825	25949	25629	23976	26395	7.824
8 Aroclor-1262(1)	+++++	+++++	+++++	11597	+++++	11597	0.000
(2)	+++++	+++++	+++++	16200	+++++	16200	0.000
(3)	+++++	+++++	+++++	14838	+++++	14838	0.000
(4)	+++++	+++++	+++++	29366	+++++	29366	0.000
(5)	+++++	+++++	+++++	20651	+++++	20651	0.000
9 Aroclor-1268(1)	41829	39003	36612	35751	33294	37298	8.721
(2)	39747	36378	33891	33096	31474	34917	9.246
(3)	30202	27679	25801	25188	24032	26580	9.093
(4)	14370	12834	11677	11309	10971	12232	11.329
(5)	81955	77588	73073	71224	67792	74326	7.452
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 11 4cmx	286554	267083	258607	255362	244057	262333	6.044
\$ 12 Decachlorobiphenyl	217815	191410	181026	177515	168101	187173	10.178

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.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1230
 Lab File ID: 002F0201 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	15176.803	13368.015	0.01	-11.9	15.0
(2)	18935.774	17204.417	0.01	-9.1	15.0
(3)	12442.153	11015.754	0.01	-11.5	15.0
(4)	7348.319	6547.264	0.01	-10.9	15.0
(5)	9517.775	8435.632	0.01	-11.4	15.0
Aroclor-1260	18330.091	17496.292	0.01	-4.5	15.0
(2)	26889.831	25810.444	0.01	-4.0	15.0
(3)	28315.304	27546.316	0.01	-2.7	15.0
(4)	16157.873	15514.718	0.01	-4.0	15.0
(5)	16812.669	16280.184	0.01	-3.2	15.0
=====	=====	=====	=====	=====	=====
4cmx	389523.02	386971.50	0.01	-0.6	15.0
Decachlorobiphenyl	296930.38	288381.92	0.01	-2.9	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1230
 Lab File ID: 002B0201 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12584.978	11635.292	0.01	-7.5	15.0
(2)	8634.207	7633.002	0.01	-11.6	15.0
(3)	5286.637	4691.691	0.01	-11.2	15.0
(4)	6892.719	5994.298	0.01	-13.0	15.0
(5)	6422.564	5664.563	0.01	-11.8	15.0
Aroclor-1260	13080.231	12551.719	0.01	-4.0	15.0
(2)	15549.023	15126.606	0.01	-2.7	15.0
(3)	11896.069	11470.204	0.01	-3.6	15.0
(4)	12289.216	11886.007	0.01	-3.3	15.0
(5)	26394.638	26206.943	0.01	-0.7	15.0
4cmx	262332.66	255524.84	0.01	-2.6	15.0
Decachlorobiphenyl	187173.38	181034.17	0.01	-3.3	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.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1241
 Lab File ID: 003F0301 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1734 1816
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	13261.954	12239.461	0.01	-7.7	15.0
(2)	17833.306	16560.496	0.01	-7.1	15.0
(3)	22371.301	21451.860	0.01	-4.1	15.0
(4)	16490.050	16013.722	0.01	-2.9	15.0
(5)	15964.418	15970.713	0.01	0.0	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.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1241
 Lab File ID: 003B0301 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1734 1816
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	6021.217	5474.205	0.01	-9.1	15.0
(2)	10819.790	9939.393	0.01	-8.1	15.0
(3)	11933.626	10997.088	0.01	-7.8	15.0
(4)	16441.788	15436.326	0.01	-6.1	15.0
(5)	12115.517	11281.322	0.01	-6.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1552
 Lab File ID: 020F2001 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15176.803	13206.478	0.01	-13.0	15.0
(2)	18935.774	16766.708	0.01	-11.4	15.0
(3)	12442.153	10882.251	0.01	-12.5	15.0
(4)	7348.319	6542.971	0.01	-11.0	15.0
(5)	9517.775	8384.743	0.01	-11.9	15.0
Aroclor-1260	18330.091	17668.243	0.01	-3.6	15.0
(2)	26889.831	25728.812	0.01	-4.3	15.0
(3)	28315.304	27547.194	0.01	-2.7	15.0
(4)	16157.873	15540.754	0.01	-3.8	15.0
(5)	16812.669	16214.245	0.01	-3.6	15.0
4cmx	389523.02	381431.66	0.01	-2.1	15.0
Decachlorobiphenyl	296930.38	253206.98	0.01	-14.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1552
 Lab File ID: 020B2001 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12584.978	11098.034	0.01	-11.8	15.0
(2)	8634.207	7571.040	0.01	-12.3	15.0
(3)	5286.637	4648.222	0.01	-12.1	15.0
(4)	6892.719	6158.530	0.01	-10.6	15.0
(5)	6422.564	5612.957	0.01	-12.6	15.0
Aroclor-1260	13080.231	12328.355	0.01	-5.7	15.0
(2)	15549.023	14929.799	0.01	-4.0	15.0
(3)	11896.069	11290.496	0.01	-5.1	15.0
(4)	12289.216	11771.568	0.01	-4.2	15.0
(5)	26394.638	25805.545	0.01	-2.2	15.0
=====	=====	=====	=====	=====	=====
4cmx	262332.66	253070.17	0.01	-3.5	15.0
Decachlorobiphenyl	187173.38	178188.05	0.01	-4.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1811
 Lab File ID: 031F3101 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15176.803	13394.714	0.01	-11.7	15.0
(2)	18935.774	17254.004	0.01	-8.9	15.0
(3)	12442.153	11024.306	0.01	-11.4	15.0
(4)	7348.319	6622.547	0.01	-9.9	15.0
(5)	9517.775	8486.533	0.01	-10.8	15.0
Aroclor-1260	18330.091	17964.954	0.01	-2.0	15.0
(2)	26889.831	26227.422	0.01	-2.5	15.0
(3)	28315.304	27979.481	0.01	-1.2	15.0
(4)	16157.873	15785.645	0.01	-2.3	15.0
(5)	16812.669	16448.735	0.01	-2.2	15.0
4cmx	389523.02	387536.13	0.01	-0.5	15.0
Decachlorobiphenyl	296930.38	288688.06	0.01	-2.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121
 Instrument ID: ECD1A Calibration Date: 03/16/10 Time: 1811
 Lab File ID: 031B3101 Init. Calib. Date(s): 03/11/10 03/11/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1631 1713
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	12584.978	11721.842	0.01	-6.8	15.0
(2)	8634.207	7615.119	0.01	-11.8	15.0
(3)	5286.637	4695.105	0.01	-11.2	15.0
(4)	6892.719	6176.113	0.01	-10.4	15.0
(5)	6422.564	5789.750	0.01	-9.8	15.0
Aroclor-1260	13080.231	12397.791	0.01	-5.2	15.0
(2)	15549.023	14988.919	0.01	-3.6	15.0
(3)	11896.069	11260.747	0.01	-5.3	15.0
(4)	12289.216	11806.558	0.01	-3.9	15.0
(5)	26394.638	25947.564	0.01	-1.7	15.0
=====	=====	=====	=====	=====	=====
4cmx	262332.66	256182.98	0.01	-2.3	15.0
Decachlorobiphenyl	187173.38	177598.23	0.01	-5.1	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/002f0201.d
 Lab Smp Id: WAR100222-60 01 Client Smp ID: AR166001
 Inj Date : 16-MAR-2010 12:30
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 01
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
 Meth Date : 16-Mar-2010 13:23 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 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							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
11 4cmx					CAS #: 877-09-8		
1.915	1.915	0.000	38697150	100.000	99.3	80.00- 120.00	100.00

12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.220	5.220	0.000	28838192	100.000	97.1	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.366	2.366	0.000	13368015	1000.00	881	80.00- 120.00	100.00
2.654	2.654	0.000	17204417	1000.00	908	108.70- 148.70	128.70
2.734	2.734	0.000	11015754	1000.00	885	62.40- 102.40	82.40
2.771	2.771	0.000	6547264	1000.00	891	28.98- 68.98	48.98
2.982	2.982	0.000	8435631	1000.00	886	43.10- 83.10	63.10
Average of Peak Amounts -					890		

7 Aroclor-1260					CAS #: 11096-82-5		
3.707	3.707	0.000	17496291	1000.00	954	80.00- 120.00	100.00
3.870	3.870	0.000	25810444	1000.00	960	127.52- 167.52	147.52
4.032	4.032	0.000	27546316	1000.00	973	137.44- 177.44	157.44
4.100	4.100	0.000	15514718	1000.00	960	68.67- 108.67	88.67
4.243	4.243	0.000	16280184	1000.00	968	73.05- 113.05	93.05
Average of Peak Amounts -					963		

Data File: /chem/ecdt1a.i/031610a.b/002f0201.d

Date: 16-MAR-2010 12:30

Client ID: AR166001

Sample Info: 14AR100222-60 01

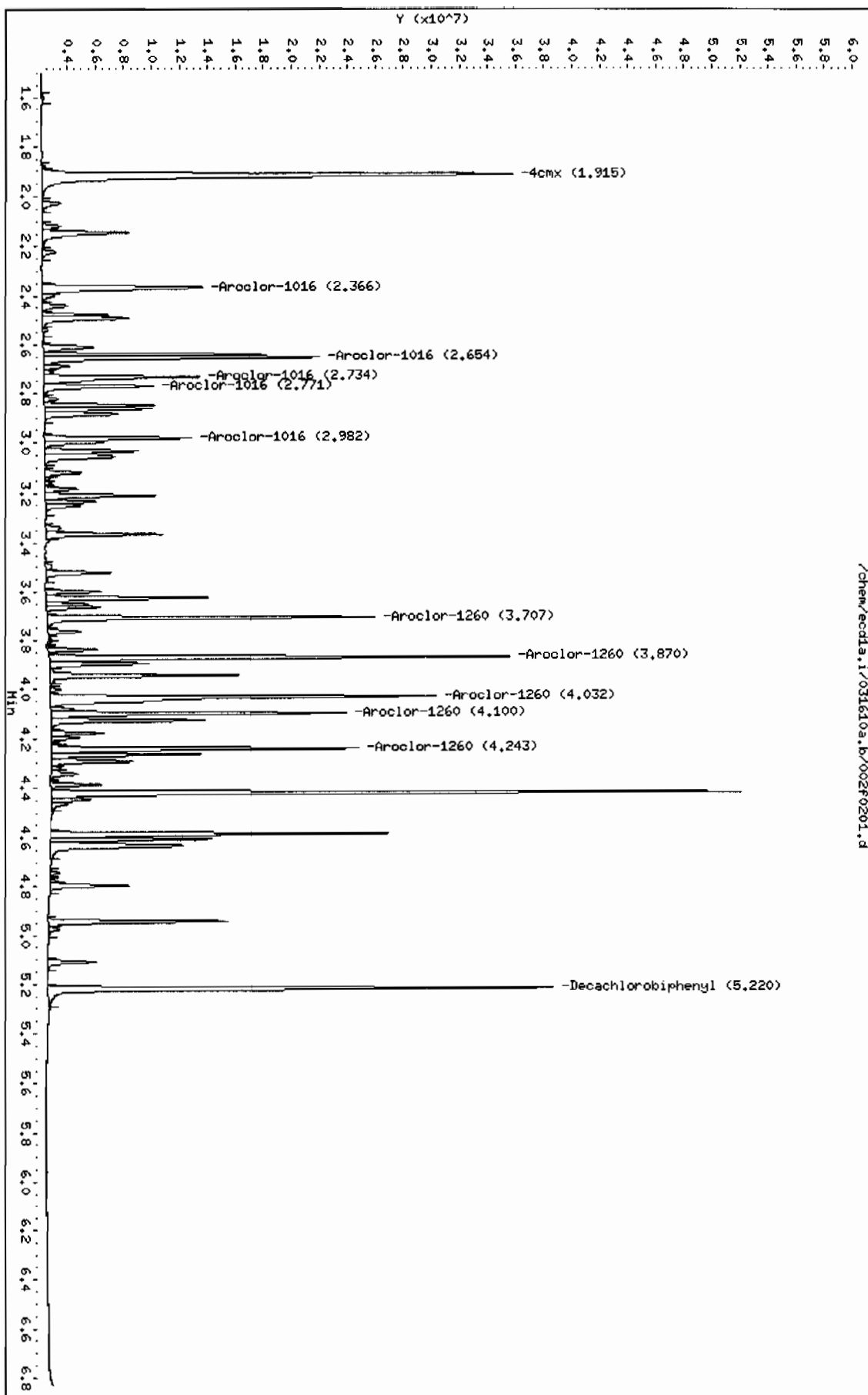
Column phase: CLP1

Instrument: ecdt1a.i

Operator: YS1

Column diameter: 0.25

/chem/ecdt1a.i/031610a.b/002f0201.d



Data File: /chem/ecdla.i/031610a.b/002b0201.d
 Report Date: 16-Mar-2010 13:24

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/002b0201.d
 Lab Smp Id: WAR100222-60 01 Client Smp ID: AR166001
 Inj Date : 16-MAR-2010 12:30
 Operator : YS1 Inst ID: ecdla.i
 Smp Info : |WAR100222-60 01
 Misc Info :
 Comment :
 Method : /chem/ecdla.i/031610a.b/ECD1-B-8082-031110b.m
 Meth Date : 16-Mar-2010 13:22 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 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		
2.273	2.273	0.000	25552484	100.000	97.4	80.00- 120.00	100.00

12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.915	5.915	0.000	18103417	100.000	96.7	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.168	3.168	0.000	11635291	1000.00	924	80.00- 120.00	100.00
3.251	3.251	0.000	7633001	1000.00	884	45.60- 85.60	65.60
3.315	3.315	0.000	4691690	1000.00	887	20.32- 60.32	40.32
3.541	3.541	0.000	5994297	1000.00	870	31.52- 71.52	51.52
3.617	3.617	0.000	5664562	1000.00	882	28.68- 68.68	48.68
Average of Peak Amounts =					890		

7 Aroclor-1260					CAS #: 11096-82-5		
4.307	4.307	0.000	12551719	1000.00	960	80.00- 120.00	100.00
4.431	4.431	0.000	15126605	1000.00	973	100.51- 140.51	120.51
4.698	4.698	0.000	11470204	1000.00	964	71.38- 111.38	91.38
4.871	4.871	0.000	11886007	1000.00	967	74.70- 114.70	94.70
5.018	5.018	0.000	26206943	1000.00	993	188.79- 228.79	208.79
Average of Peak Amounts =					971		

Data File: /chem/ecdda.i/031610a.b/002b0201.d
Date: 16-MAR-2010 12:30
Client ID: RR166001
Sample Info: IHR100222-60 01

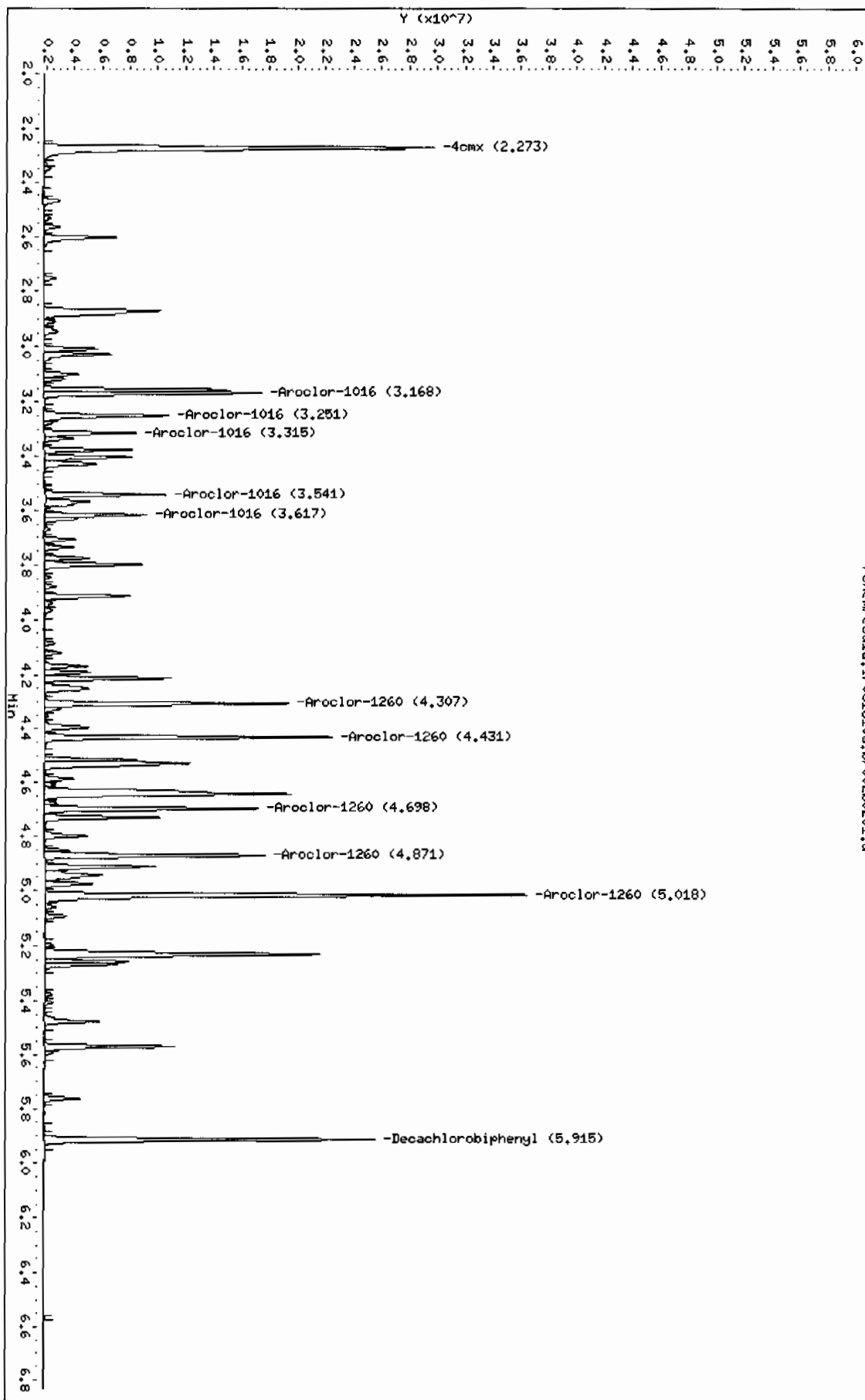
Instrument: ecdda.i

Page 1

Column phase: CLP2

Operator: YSL
Column diameter: 0.25

/chem/ecdda.i/031610a.b/002b0201.d



Data File: /chem/ecdl1a.i/031610a.b/003f0301.d
Report Date: 16-Mar-2010 13:24

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/003f0301.d
Lab Smp Id: WAR100219-54 Client Smp ID: AR125401
Inj Date : 16-MAR-2010 12:41
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100219-54
Misc Info :
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 16-Mar-2010 13:23 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 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
3.210	3.210	0.000	12239461 1000.00	923 80.00-	120.00	100.00
3.365	3.365	0.000	16560496 1000.00	929 115.30-	155.30	135.30
3.599	3.599	0.000	21451859 1000.00	959 155.27-	195.27	175.27
3.762	3.762	0.000	16013721 1000.00	971 110.84-	150.84	130.84
3.871	3.871	0.000	15970713 1000.00	1000 110.49-	150.49	130.49

Average of Peak Amounts -

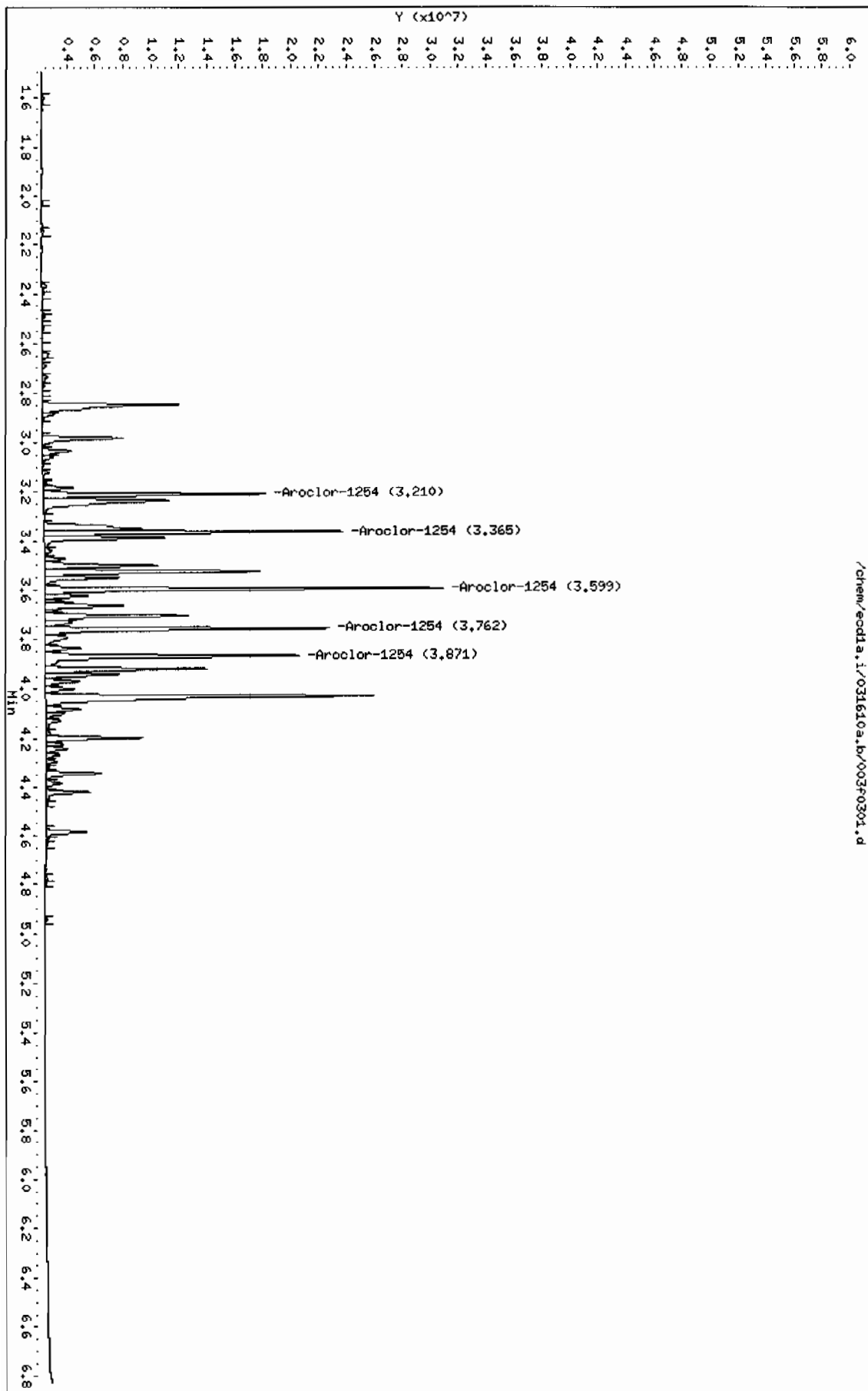
956

Data File: /chem/ecdl.a.i/031610a.b/003f0301.d
Date: 16-MAR-2010 12:41
Client ID: AR125401
Sample Info: 1MAR100219-54

Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSI
Column diameter: 0.25

/chem/ecdl.a.i/031610a.b/003f0301.d



Data File: /chem/ecdl1a.i/031610a.b/003b0301.d
Report Date: 16-Mar-2010 13:24

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/003b0301.d
Lab Smp Id: WAR100219-54 Client Smp ID: AR125401
Inj Date : 16-MAR-2010 12:41
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100219-54
Misc Info :
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 16-Mar-2010 13:22 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 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			
3.377	3.377	0.000	5474205	1000.00	909	80.00-	120.00	100.00
3.799	3.799	0.000	9939393	1000.00	919	161.57-	201.57	181.57
3.915	3.915	0.000	10997088	1000.00	922	180.89-	220.89	200.89
4.190	4.190	0.000	15436326	1000.00	939	261.98-	301.98	281.98
4.327	4.327	0.000	11281321	1000.00	931	186.08-	226.08	206.08
Average of Peak Amounts =					924			

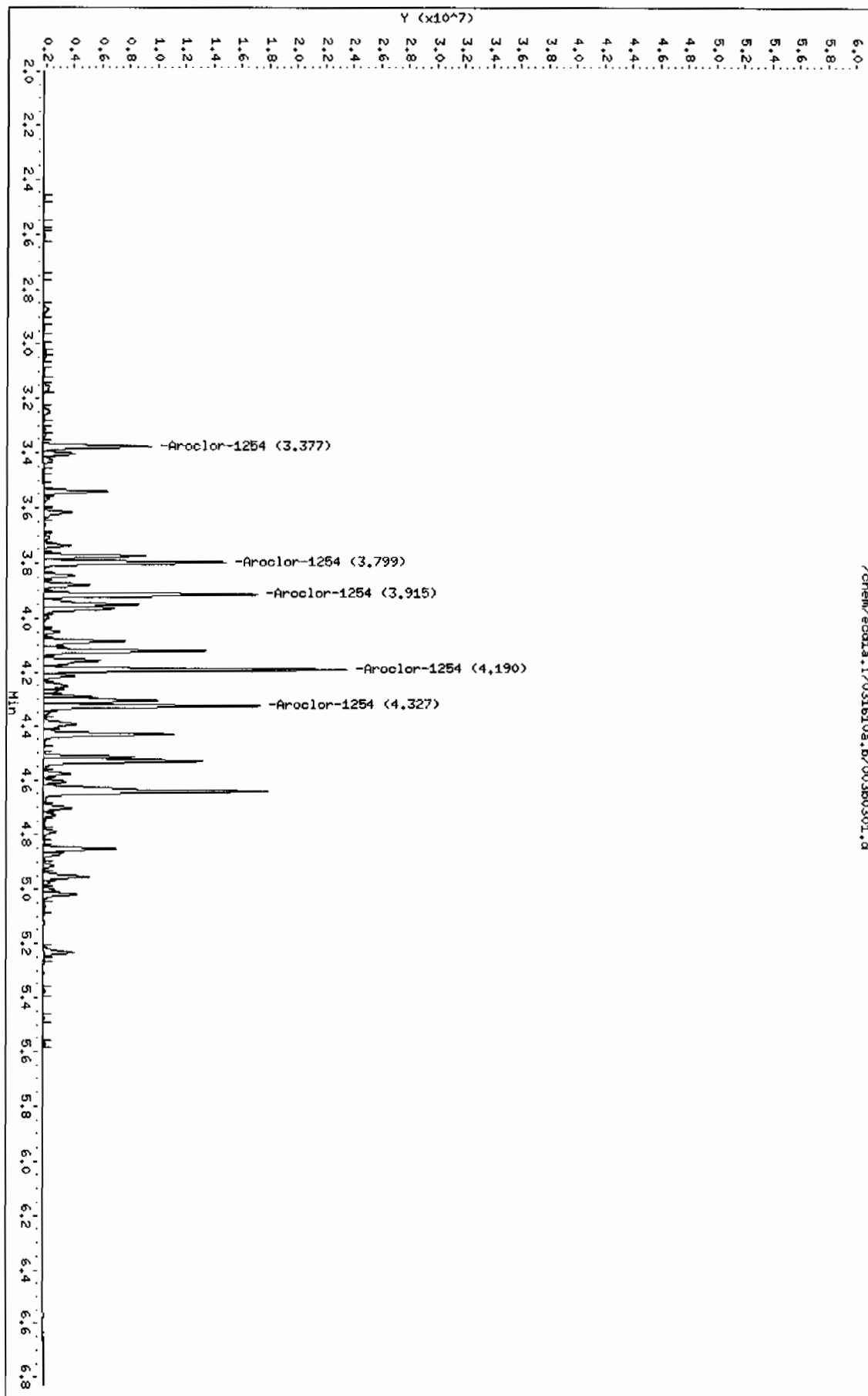
Data File: /chem/ecdl.a.i/031610a.b/003b0301.d
Date: 16-MAR-2010 12:41
Client ID: R4125401
Sample Info: 14AR100219-54

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Column phase: CLP2

Instrument: ecdl.a.i
Operator: YS1
Column diameter: 0.25

/chem/ecdl.a.i/031610a.b/003b0301.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 16-MAR-2010 12:51

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m

Meth Date : 16-Mar-2010 13:23 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

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
2.366	2.366	0.000	12027208 1000.00	975 80.00-	120.00	100.00
2.654	2.654	0.000	14574349 1000.00	978 101.18-	141.18	121.18
2.771	2.771	0.000	5633163 1000.00	955 26.84-	66.84	46.84
2.981	2.981	0.000	7152911 1000.00	925 39.47-	79.47	59.47
3.235	3.235	0.000	6781253 1000.00	931 36.38-	76.38	56.38
Average of Peak Amounts =				953		

Data File: /chem/eod1a.i/031610a.b/004f0401.d

Date: 16-MAR-2010 12:51

Client ID: AR124201

Sample Info: 1MAR100219-42

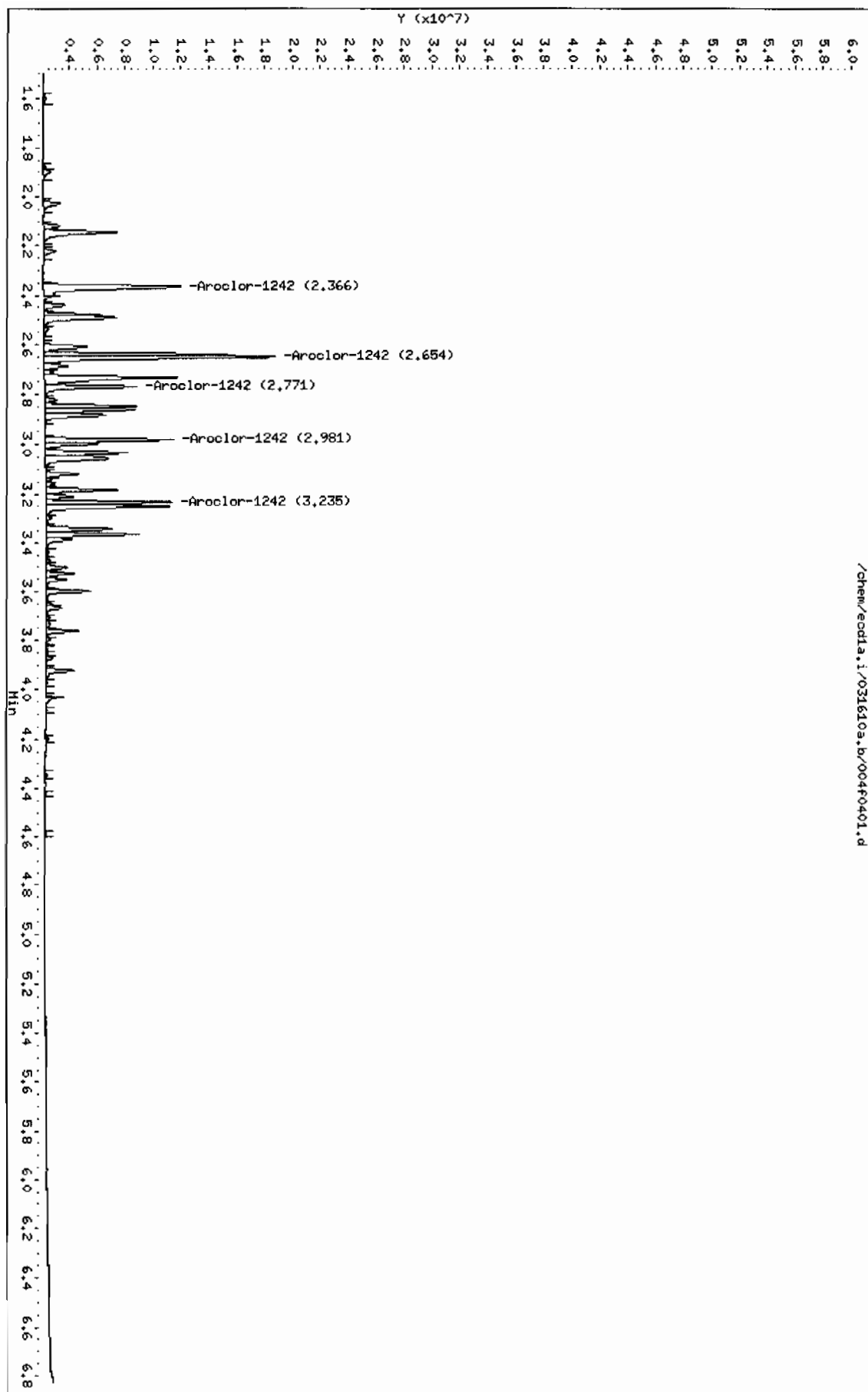
Column phase: CLP1

Instrument: eod1a.i

Operator: YSI

Column diameter: 0.25

/chem/eod1a.i/031610a.b/004f0401.d



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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/004b0401.d
Lab Smp Id: WAR100219-42 Client Smp ID: AR124201
Inj Date : 16-MAR-2010 12:51
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100219-42
Misc Info :
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 16-Mar-2010 13:22 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 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

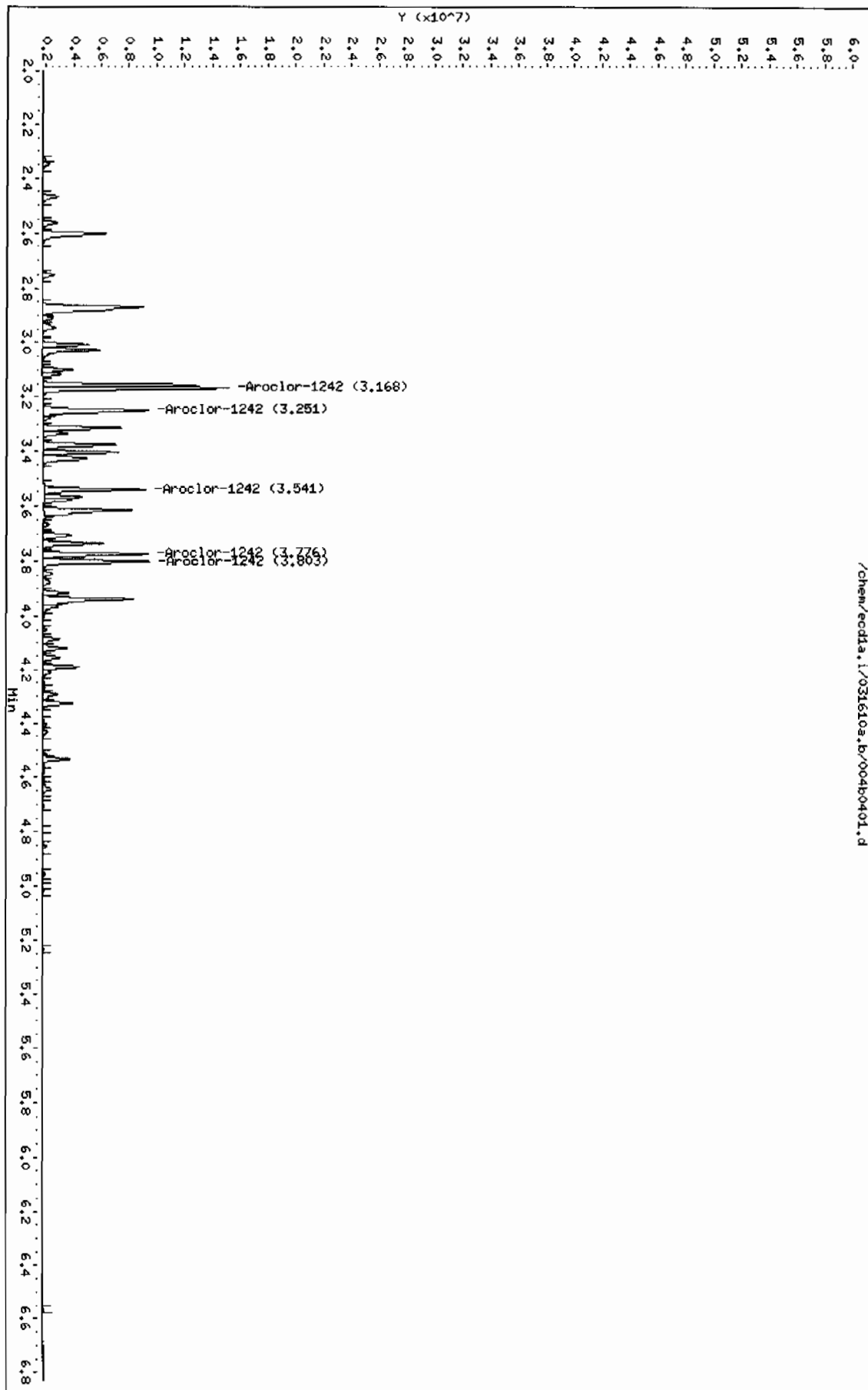
AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
4 Aroclor-1242					CAS #: 53469-21-9			
3.168	3.168	0.000	9929515	1000.00	979	80.00- 120.00	100.00	
3.251	3.251	0.000	6630913	1000.00	934	46.78- 86.78	66.78	
3.541	3.541	0.000	5134998	1000.00	931	31.71- 71.71	51.71	
3.776	3.776	0.000	5340681	1000.00	933	33.79- 73.79	53.79	
3.803	3.803	0.000	6028707	1000.00	946	40.72- 80.72	60.72	
Average of Peak Amounts =					945			

Data File: /chem/ecdl1a.i/031610a.b/004b0401.d
Date: 16-MAR-2010 12:51
Client ID: AR124201
Sample Info: 14AR100219-42

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Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25
Column phase: CLP2

/chem/ecdl1a.i/031610a.b/004b0401.d



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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/005f0501.d
Lab Smp Id: WAR100223-48 Client Smp ID: AR124801
Inj Date : 16-MAR-2010 13:02
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100223-48
Misc Info :
Comment :
Method : /chem/ecdla.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 16-Mar-2010 13:23 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
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5 Aroclor-1248			CAS #: 12672-29-6			
2.848	2.848	0.000	9710761 1000.00	971	80.00- 120.00	100.00
2.981	2.981	0.000	12605164 1000.00	959	109.81- 149.81	129.81
3.235	3.235	0.000	13463724 1000.00	941	118.65- 158.65	138.65
3.366	3.366	0.000	11279259 1000.00	948	96.15- 136.15	116.15
3.599	3.599	0.000	7571710 1000.00	946	57.97- 97.97	77.97
Average of Peak Amounts =			953			

Data File: /chem/ecdda.i/031610a.b/005f0501.d

Date: 16-MAR-2010 13:02

Client ID: AR124801

Sample Info: IMR100223-48

Column Phase: CLP1

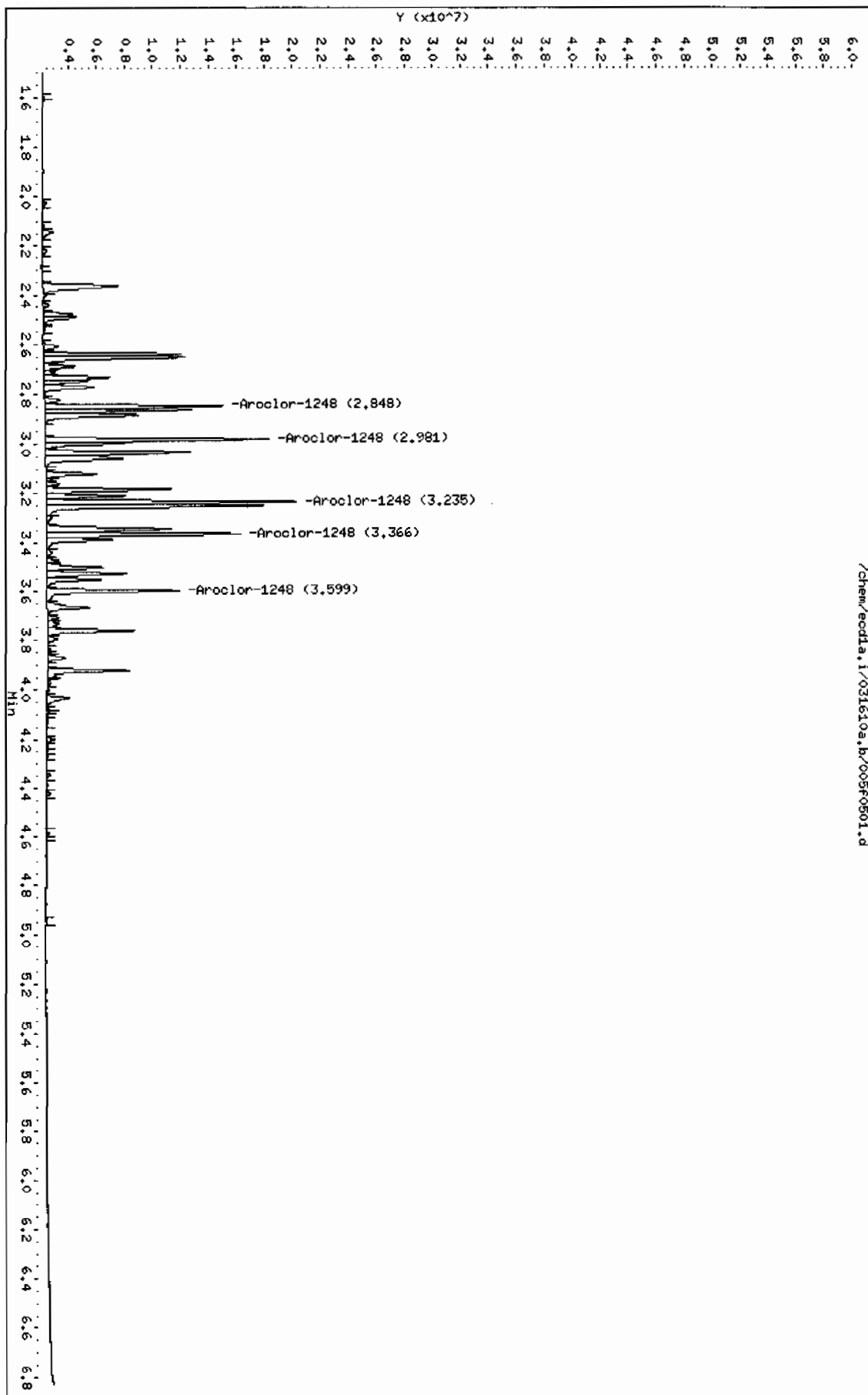
Page 1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

/chem/ecdda.i/031610a.b/005f0501.d



Data File: /chem/ecdl1a.i/031610a.b/005b0501.d
Report Date: 16-Mar-2010 13:24

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/005b0501.d
Lab Smp Id: WAR100223-48 Client Smp ID: AR124801
Inj Date : 16-MAR-2010 13:02
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100223-48
Misc Info :
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 16-Mar-2010 13:22 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
5 Aroclor-1248			CAS #: 12672-29-6			
3.377	3.377	0.000	7157132 1000.00	941	80.00- 120.00	100.00
3.541	3.541	0.000	8998123 1000.00	950	105.72- 145.72	125.72
3.776	3.776	0.000	10355208 1000.00	947	124.68- 164.68	144.68
3.803	3.803	0.000	11574565 1000.00	952	141.72- 181.72	161.72
3.940	3.940	0.000	11100051 1000.00	940	135.09- 175.09	155.09
Average of Peak Amounts =			946			

Data File: /chem/ecdl1a.i/031610a.b/00500501.d

Date: 16-MAR-2010 13:02

Client ID: AR124801

Sample Info: 1MAR100223-48

Column phase: CLP2

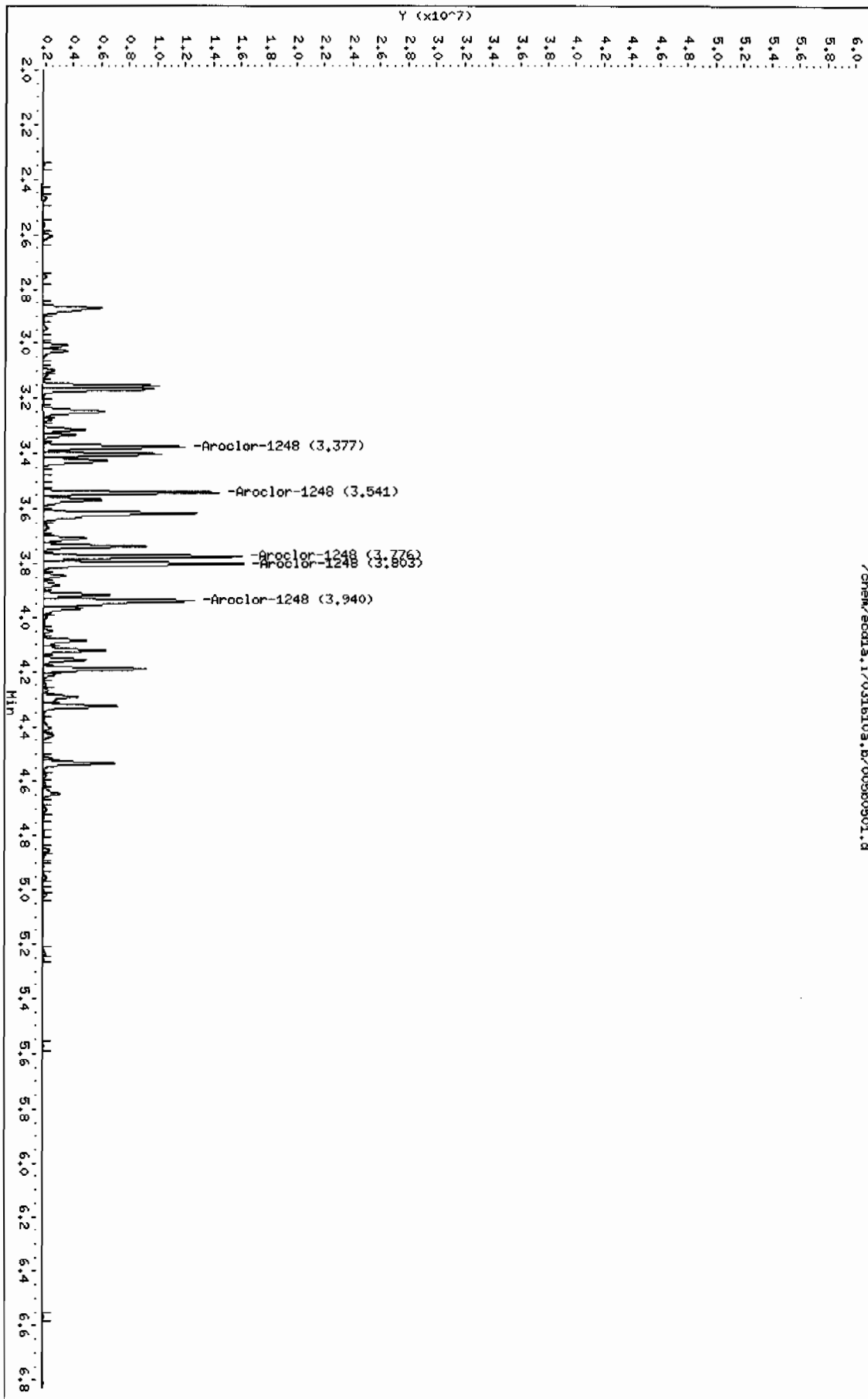
Instrument: ecdl1a.i

Operator: YS1

Column diameter: 0.25

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/chem/ecdl1a.i/031610a.b/00500501.d



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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/007f0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 16-MAR-2010 13:23

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m

Meth Date : 16-Mar-2010 13:37 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 7 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5			
2.368	2.368	0.000	6500859 1000.00	975	80.00- 120.00	100.00
2.654	2.654	0.000	8233372 1000.00	987	106.65- 146.65	126.65
2.734	2.734	0.000	5376738 1000.00	972	62.71- 102.71	82.71
2.848	2.848	0.000	2571664 1000.00	971	19.56- 59.56	39.56
3.235	3.235	0.000	3497333 1000.00	984	33.80- 73.80	53.80
Average of Peak Amounts =			978			

Data File: /chem/eod1a.i/031610a.b/0070701.d

Date: 16-Mar-2010 13:23

Client ID: AR123201

Sample Info: 11MAR100104-32

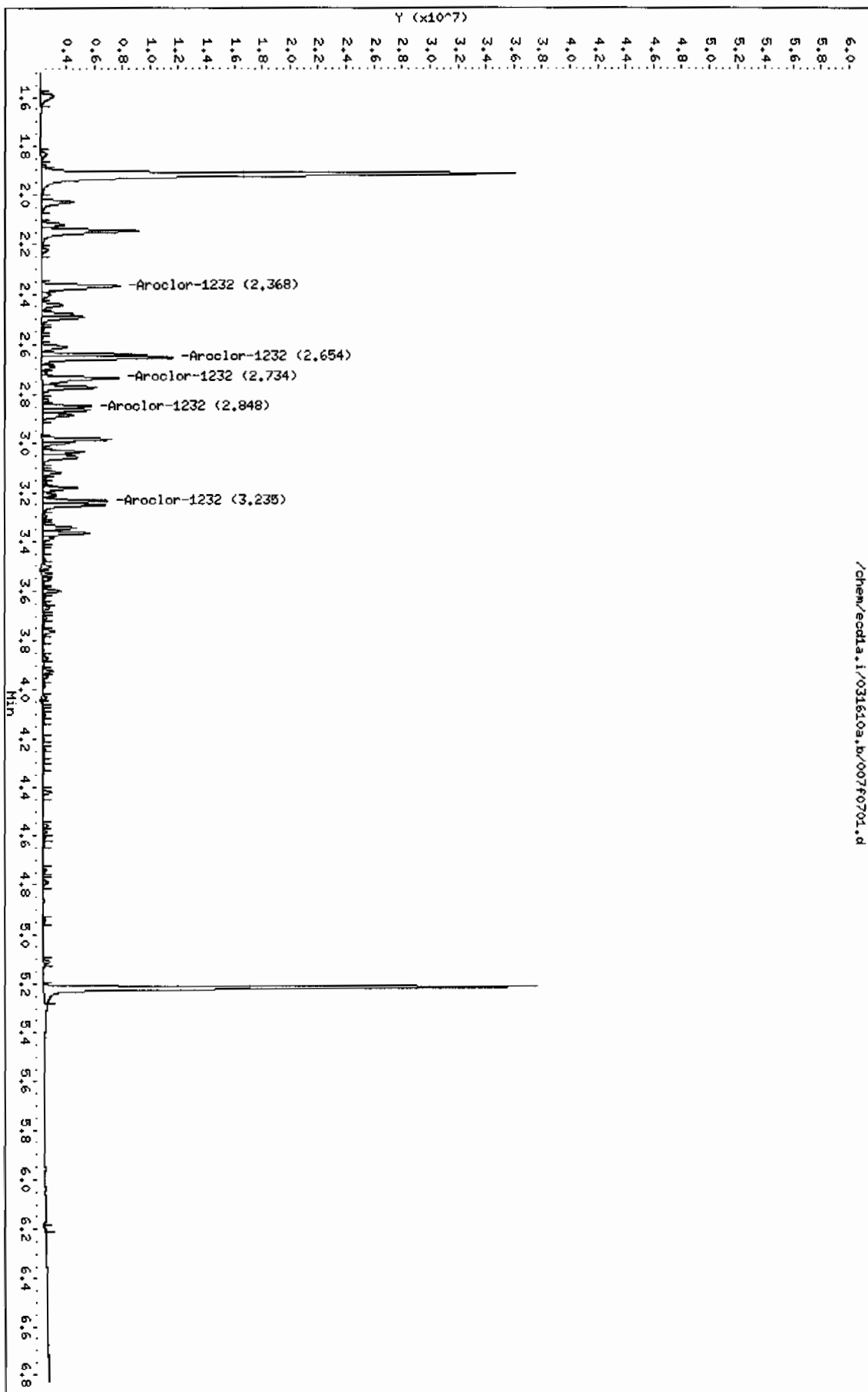
Column phase: CLP1

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/007b0701.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 16-MAR-2010 13:23

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/031610a.b/ECD1-B-8082-031110b.m

Meth Date : 16-Mar-2010 13:37 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d

Als bottle: 7 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
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3 Aroclor-1232

CAS #: 11141-16-5

2.871	2.871	0.000	5016146 1000.00	992	80.00- 120.00	100.00
3.168	3.168	0.000	5573142 1000.00	976	91.10- 131.10	111.10
3.251	3.251	0.000	3905339 1000.00	1000	57.86- 97.86	77.86
3.542	3.542	0.000	2856410 1000.00	1000	36.94- 76.94	56.94
3.775	3.775	0.000	2817111 1000.00	999	36.16- 76.16	56.16

Average of Peak Amounts =

995

Data File: /chem/ecdl1a.i/031610a,b/007b0701.d

Date: 16-MAR-2010 13:23

Client ID: AR123201

Sample Info: 1MAR100104-32

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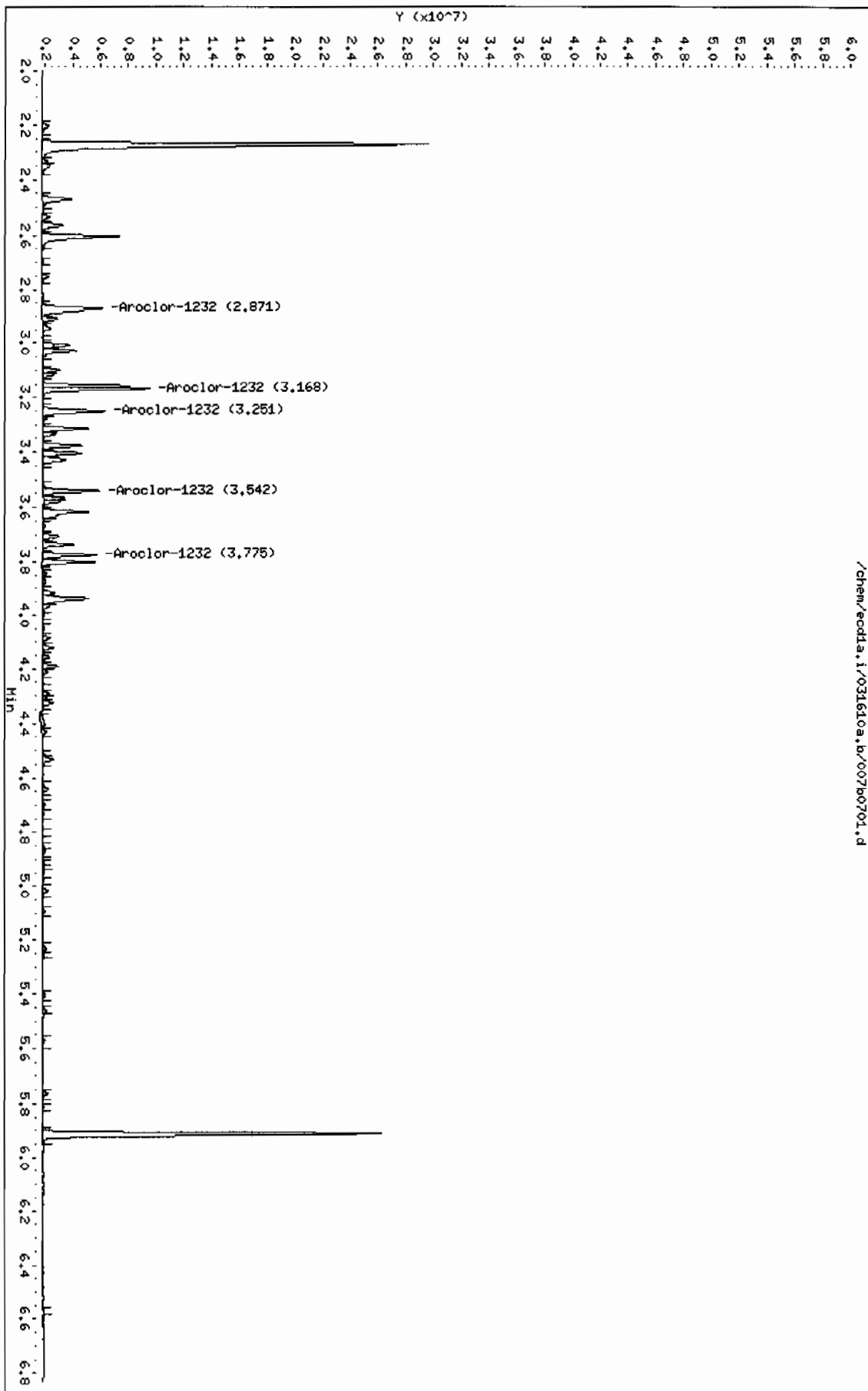
Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25

Column phase: CLP2

/chem/ecdl1a.i/031610a,b/007b0701.d



Data File: /chem/ecdla.i/031610a.b/008f0801.d
Report Date: 16-Mar-2010 13:59

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/008f0801.d
Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
Inj Date : 16-MAR-2010 13:33
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100104-21
Misc Info :
Comment :
Method : /chem/ecdla.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 16-Mar-2010 13:59 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.026	2.026	0.000	4563206 1000.00	1020	80.00- 120.00	100.00
2.119	2.119	0.000	2487535 1000.00	1020	34.51- 74.51	54.51
2.145	2.145	0.000	10947521 1000.00	1010	219.91- 259.91	239.91

Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdl1a.i/031610a.b/008f0801.d

Date: 16-MAR-2010 13:33

Client ID: AR122101

Sample Info: 1MR100104-21

Column phase: CLP1

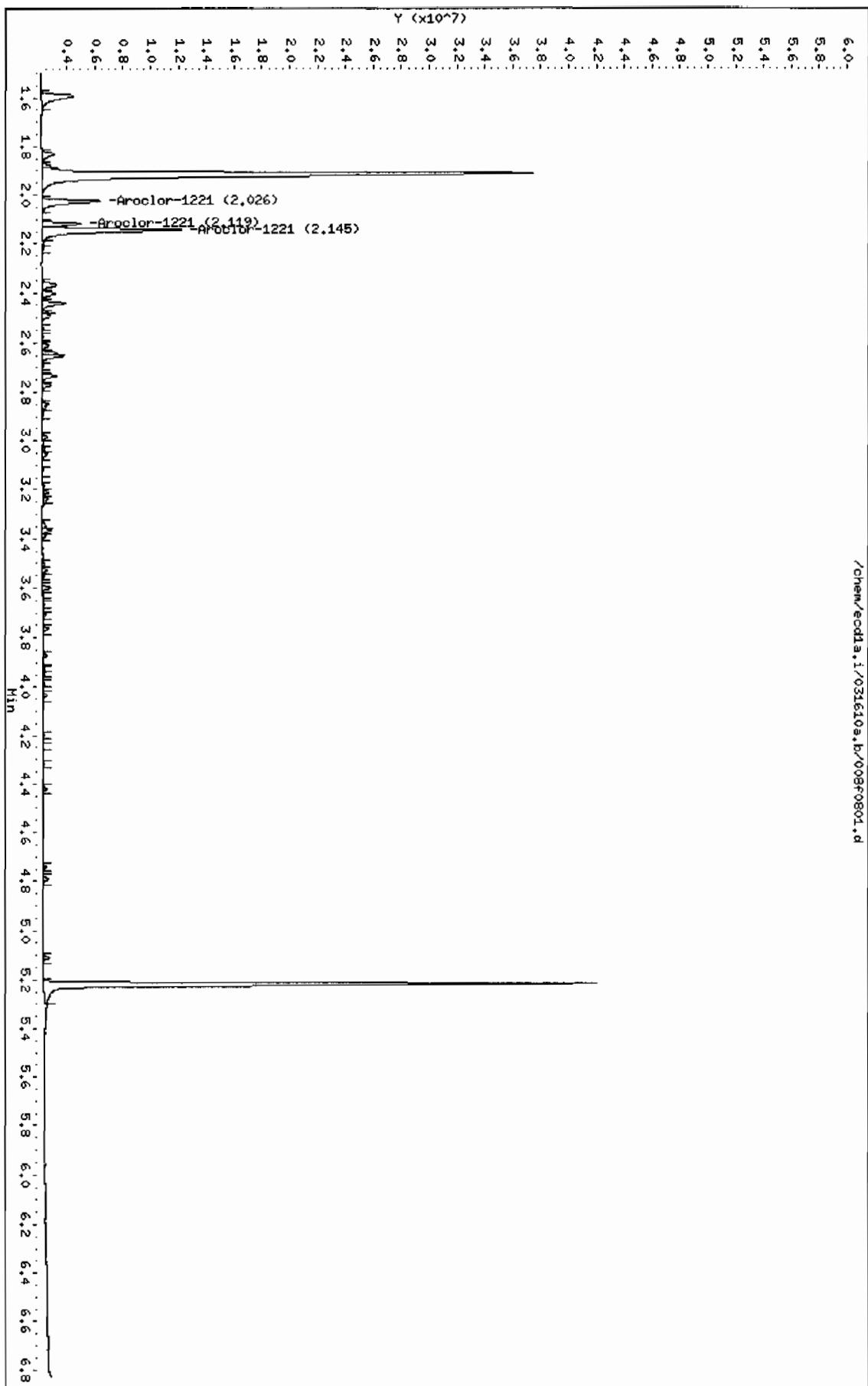
Page 1

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl1a.i/031610a.b/008f0801.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/008b0801.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 16-MAR-2010 13:33

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m

Meth Date : 16-Mar-2010 13:58 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2.469	2.469	0.000	3539486 1000.00	1090	80.00- 120.00	100.00
2.564	2.564	0.000	2209178 1000.00	1060	42.42- 82.42	62.42
2.605	2.605	0.000	7534160 1000.00	1030	192.86- 232.86	212.86
Average of Peak Amounts =			1.06e+03			

Data File: /chem/eod1a.i/031610a.b/00800801.d

Date: 16-MAR-2010 13:33

Client ID: AR122101

Sample Info: 11MAR100104-21

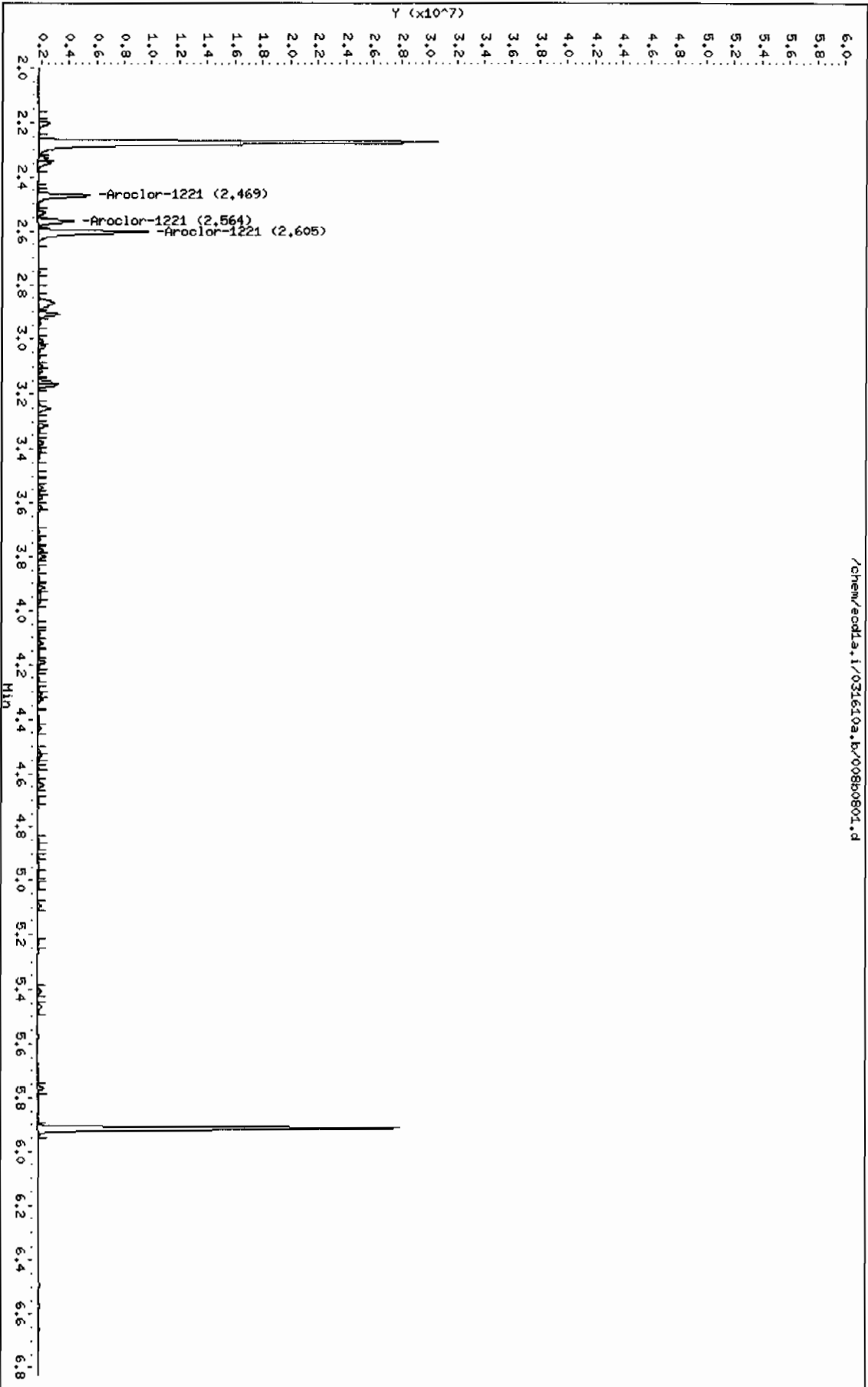
Column phase: CLP2

Instrument: eod1a.i

Operator: YS1

Column diameter: 0.25

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/020f2001.d
 Lab Smp Id: WAR100222-60 02 Client Smp ID: AR166002
 Inj Date : 16-MAR-2010 15:52
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 02
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
 Meth Date : 17-Mar-2010 07:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 20 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.913	1.915	-0.002	38143166 100.000	97.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.217	5.220	-0.003	25320698 100.000	85.3	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.366	2.366	0.000	13206478 1000.00	870	80.00- 120.00	100.00
2.651	2.654	-0.003	16766708 1000.00	885	106.96- 146.96	126.96
2.732	2.734	-0.002	10882251 1000.00	875	62.40- 102.40	82.40
2.770	2.771	-0.001	6542971 1000.00	890	29.54- 69.54	49.54
2.980	2.982	-0.002	8384742 1000.00	881	43.49- 83.49	63.49
Average of Peak Amounts =				880		

7 Aroclor-1260				CAS #: 11096-82-5		
3.705	3.707	-0.002	17668243 1000.00	964	80.00- 120.00	100.00
3.868	3.870	-0.002	25728811 1000.00	957	125.62- 165.62	145.62
4.030	4.032	-0.002	27547193 1000.00	973	135.91- 175.91	155.91
4.098	4.100	-0.002	15540753 1000.00	962	67.96- 107.96	87.96
4.241	4.243	-0.002	16214245 1000.00	964	71.77- 111.77	91.77
Average of Peak Amounts =				964		

Data File: /chem/eod1a.i/031610a.b/020f2001.d

Date: 16-MAR-2010 15:52

Client ID: AR16002

Sample Info: IWR100222-60 02

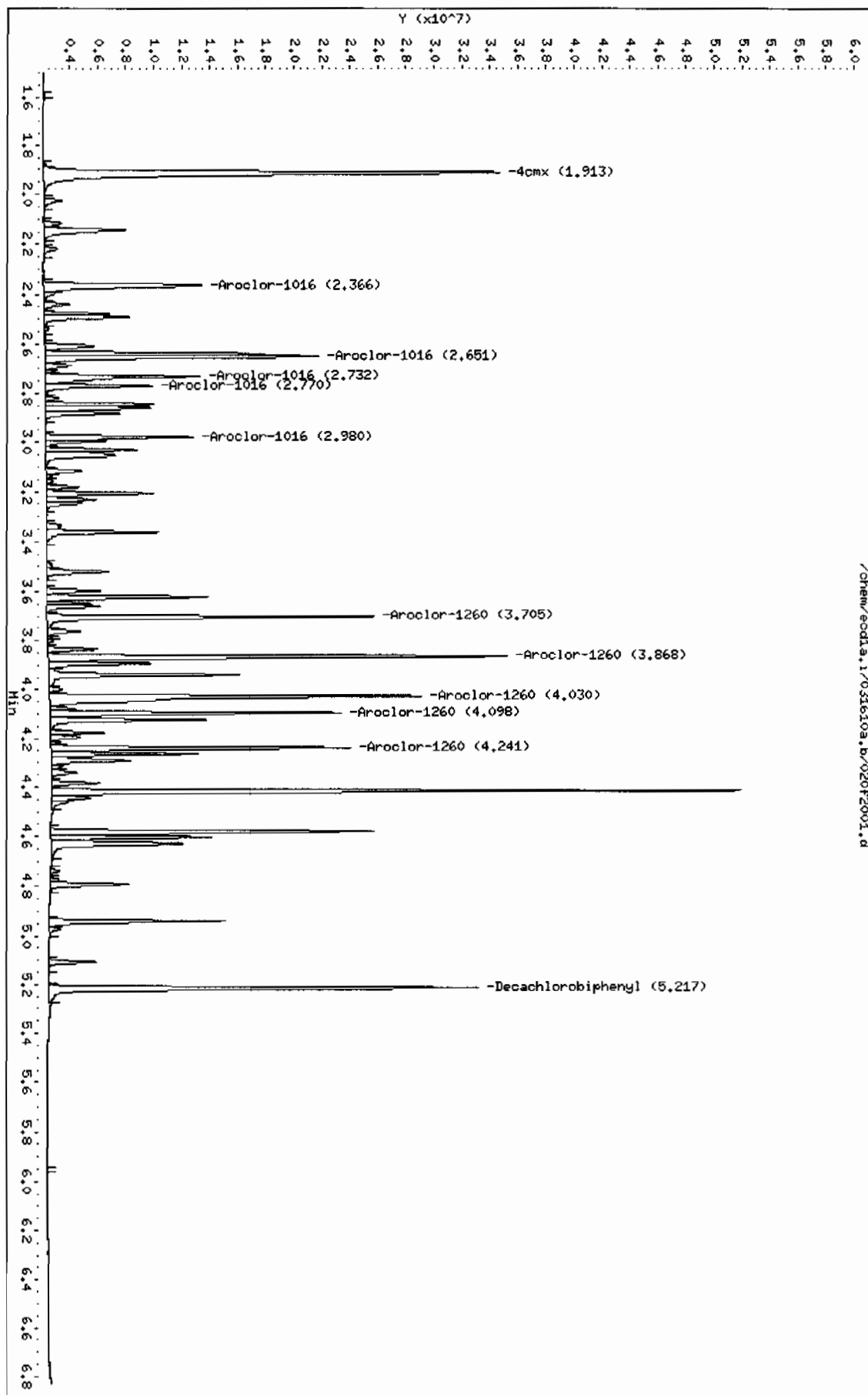
Column phase: CLP1

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/020b2001.d
 Lab Smp Id: WAR100222-60 02 Client Smp ID: AR166002
 Inj Date : 16-MAR-2010 15:52
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 02
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
 Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 20 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
2.271	2.273	-0.002	25307017 100.000	96.5	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.914	5.915	-0.001	17818805 100.000	95.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.166	3.168	-0.002	11098034 1000.00	882	80.00- 120.00	100.00(M)
3.250	3.251	-0.001	7571040 1000.00	877	44.97- 84.97	68.22
3.313	3.315	-0.002	4648222 1000.00	879	20.05- 60.05	41.88
3.541	3.541	0.000	6158530 1000.00	893	30.60- 70.60	55.49
3.616	3.617	-0.001	5612957 1000.00	874	37.10- 77.10	62.46
Average of Peak Amounts =				881		

7 Aroclor-1260				CAS #: 11096-82-5		
4.306	4.307	-0.001	12328355 1000.00	942	80.00- 120.00	100.00
4.431	4.431	0.000	14929799 1000.00	960	100.90- 140.90	121.10
4.696	4.698	-0.002	11290496 1000.00	949	70.83- 110.83	91.58
4.870	4.871	-0.001	11771568 1000.00	958	75.23- 115.23	95.48
5.016	5.018	-0.002	25805545 1000.00	978	189.29- 229.29	209.32
Average of Peak Amounts =				957		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/031610a.b/02062001.d

Date: 16-MAR-2010 15:52

Client ID: AR166002

Sample Info: 1MAR100222-60 02

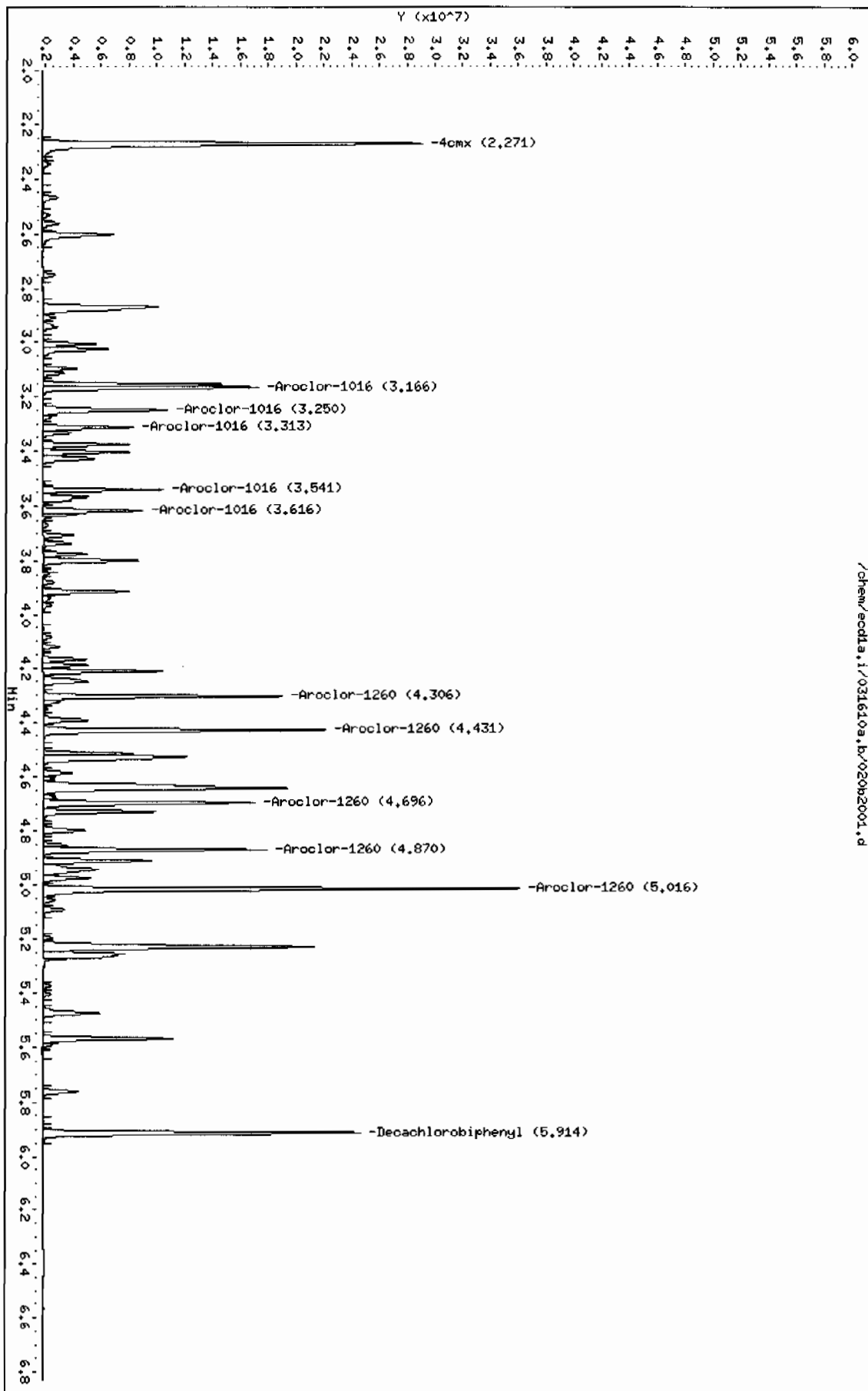
Column phase: CLP2

Instrument: ecdl1a.i

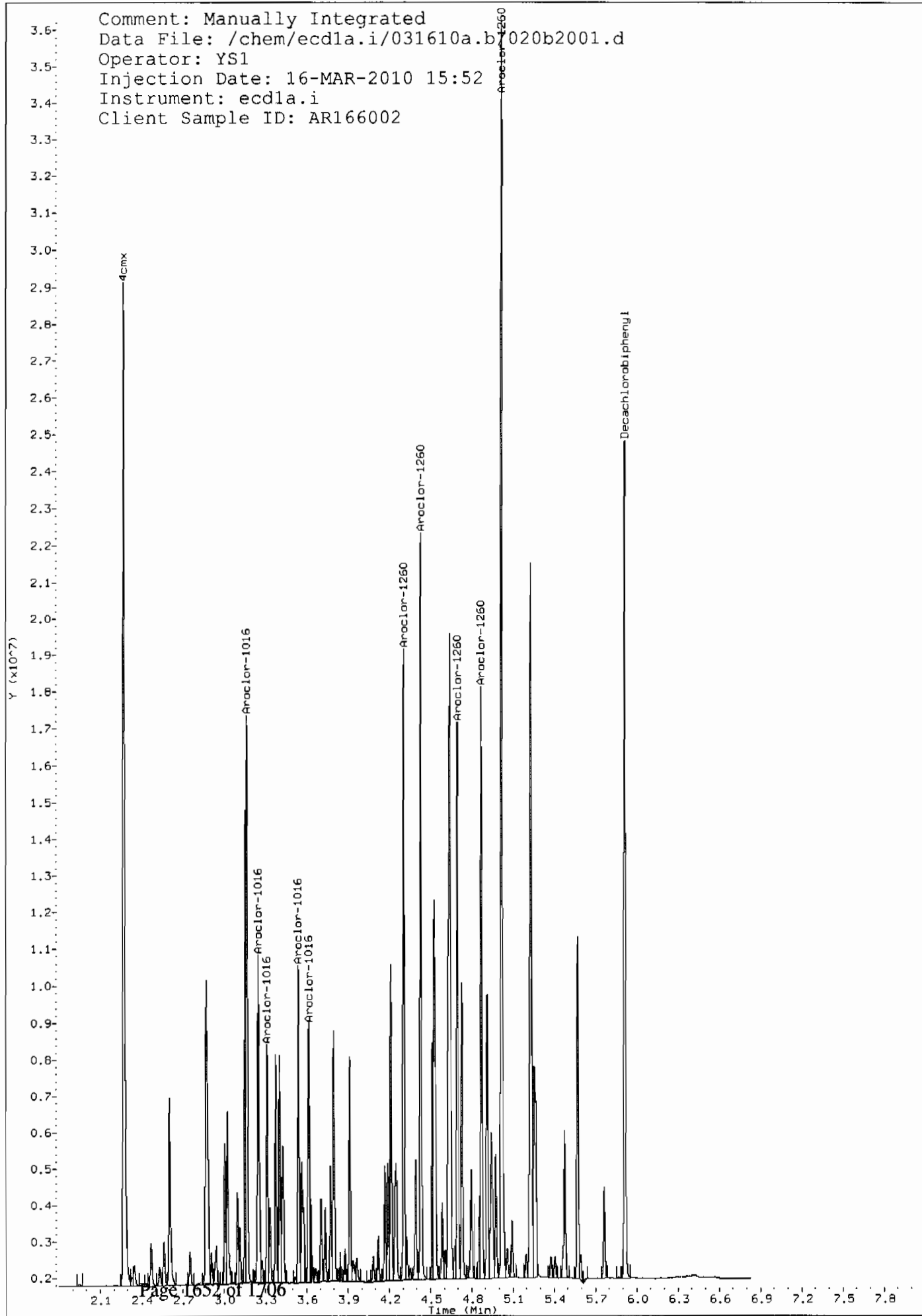
Operator: YSI

Column diameter: 0.25

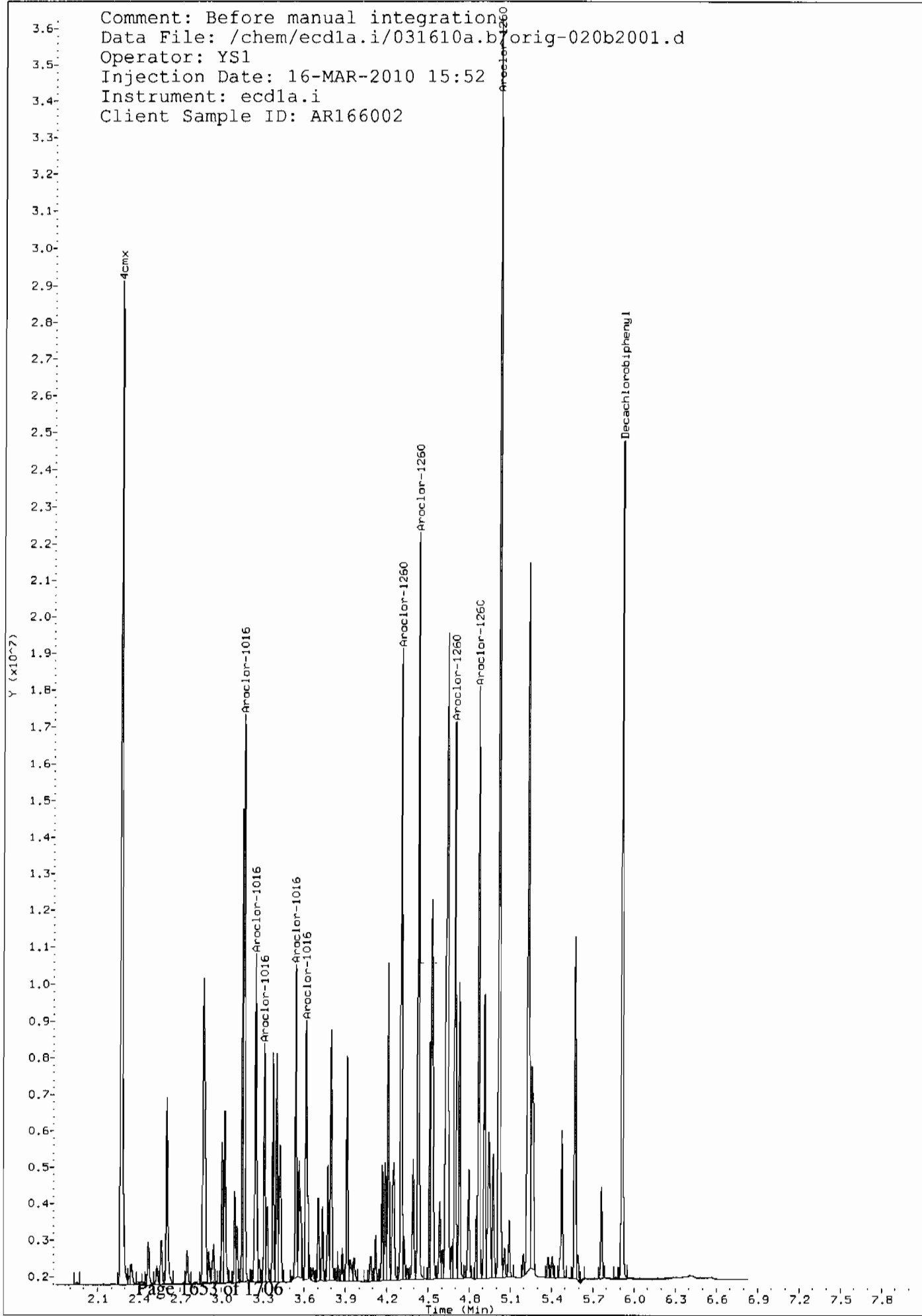
/chem/ecdl1a.i/031610a.b/02062001.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/031610a.b 020b2001.d
Operator: YS1
Injection Date: 16-MAR-2010 15:52
Instrument: ecd1a.i
Client Sample ID: AR166002



Comment: Before manual integration
Data File: /chem/ecdl1a.i/031610a.b7orig-020b2001.d
Operator: YS1
Injection Date: 16-MAR-2010 15:52
Instrument: ecd1a.i
Client Sample ID: AR166002



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/031f3101.d
Lab Smp Id: WAR100222-60 03 Client Smp ID: AR166003
Inj Date : 16-MAR-2010 18:11
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |WAR100222-60 03
Misc Info :
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS

				CAL-AMT		ON-COL			
RT	EXP RT	DLT RT		RESPONSE	(ug/L)	(ug/L)	TARGET RANGE		RATIO

\$ 11 4cmx						CAS #: 877-09-8			
1.914	1.915	-0.001		38753613	100.000	99.5	80.00- 120.00		100.00

\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3			
5.217	5.220	-0.003		28868806	100.000	97.2	80.00- 120.00		100.00

1 Aroclor-1016						CAS #: 12674-11-2			
2.366	2.366	0.000		13394713	1000.00	882	80.00- 120.00		100.00
2.653	2.654	-0.001		17254004	1000.00	911	108.81- 148.81		128.81
2.733	2.734	-0.001		11024306	1000.00	886	62.30- 102.30		82.30
2.770	2.771	-0.001		6622546	1000.00	901	29.44- 69.44		49.44
2.980	2.982	-0.002		8486533	1000.00	892	43.36- 83.36		63.36
Average of Peak Amounts =						895			

7 Aroclor-1260						CAS #: 11096-82-5			
3.705	3.707	-0.002		17964954	1000.00	980	80.00- 120.00		100.00
3.869	3.870	-0.001		26227421	1000.00	975	125.99- 165.99		145.99
4.030	4.032	-0.002		27979480	1000.00	988	135.74- 175.74		155.74
4.099	4.100	-0.001		15785645	1000.00	977	67.87- 107.87		87.87
4.241	4.243	-0.002		16448735	1000.00	978	71.56- 111.56		91.56
Average of Peak Amounts =						980			

Data File: /chem/ecda.i/031610a.b/03163101.d

Date: 16-Mar-2010 18:11

Client ID: AR160003

Sample Info: 1MAR100222-60 03

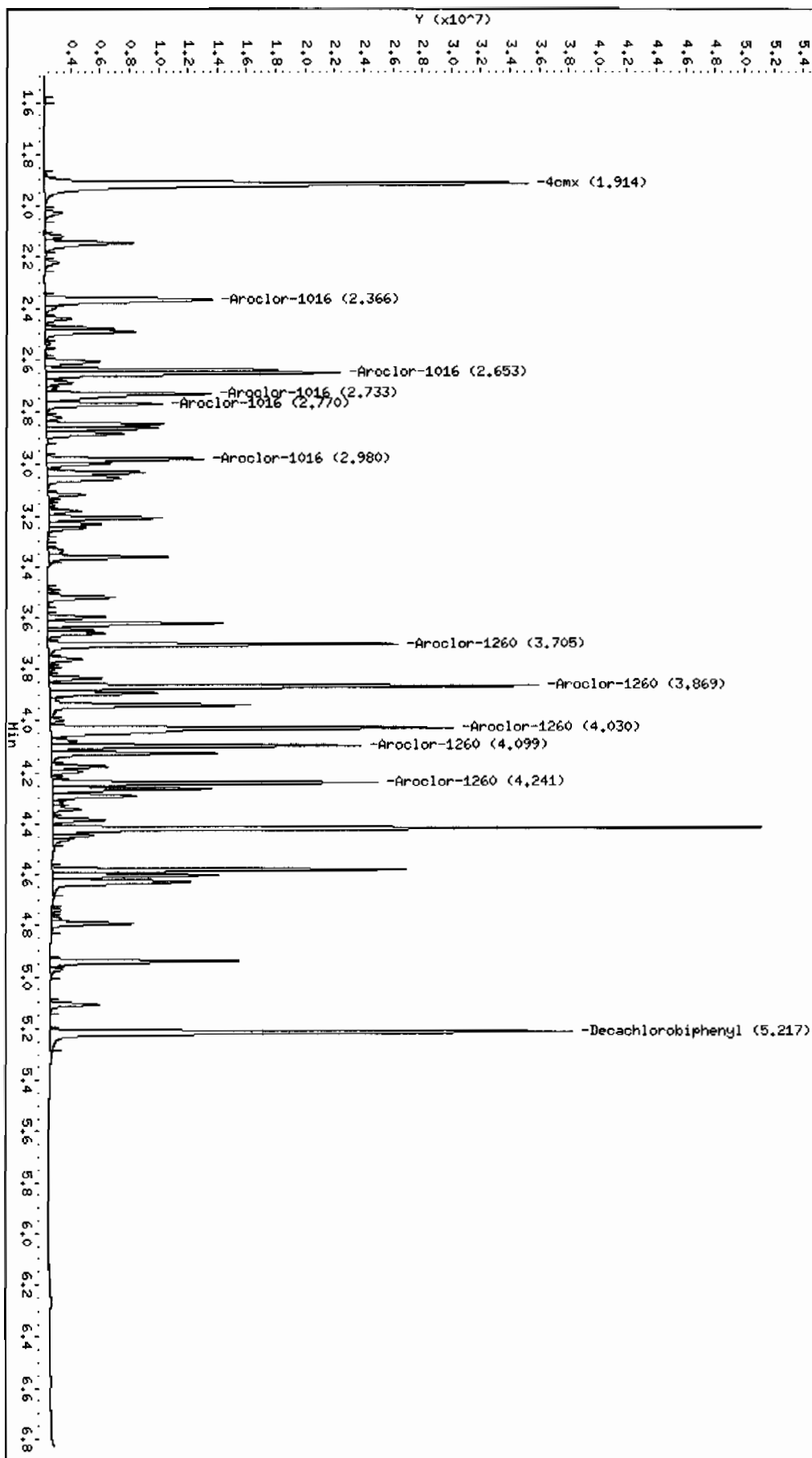
Column phase: CLP1

Instrument: ecda.i

Operator: YSI

Column diameter: 0.25

/chem/ecda.i/031610a.b/03163101.d



Data File: /chem/ecdla.i/031610a.b/031b3101.d
Report Date: 17-Mar-2010 08:13

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/031b3101.d
Lab Smp Id: WAR100222-60 03 Client Smp ID: AR166003
Inj Date : 16-MAR-2010 18:11
Operator : YS1 Inst ID: ecdla.i
Smp Info : |WAR100222-60 03
Misc Info :
Comment :
Method : /chem/ecdla.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpc1p1

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====

\$ 11 4cmx				CAS #: 877-09-8		
2.272	2.273	-0.001	25618298 100.000	97.6	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.914	5.915	-0.001	17759823 100.000	94.9	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.167	3.168	-0.001	11721842 1000.00	931	80.00- 120.00	100.00 (M)
3.250	3.251	-0.001	7615119 1000.00	882	48.22- 88.22	64.97
3.314	3.315	-0.001	4695105 1000.00	888	21.88- 61.88	40.05
3.540	3.541	-0.001	6176113 1000.00	896	35.49- 75.49	52.69
3.616	3.617	-0.001	5789750 1000.00	901	30.58- 70.58	58.87
Average of Peak Amounts =				900		

7 Aroclor-1260				CAS #: 11096-82-5		
4.306	4.307	-0.001	12397791 1000.00	948	80.00- 120.00	100.00
4.431	4.431	0.000	14988919 1000.00	964	101.10- 141.10	120.90
4.696	4.698	-0.002	11260747 1000.00	946	71.58- 111.58	90.83
4.870	4.871	-0.001	11806558 1000.00	961	75.48- 115.48	95.23
5.017	5.018	-0.001	25947564 1000.00	983	189.32- 229.32	209.29
Average of Peak Amounts =				960		

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdt1a.i/031610a.b/03163101.d

Date: 16-MAR-2010 18:11

Client ID: AR16003

Sample Info: IWR100222-60 03

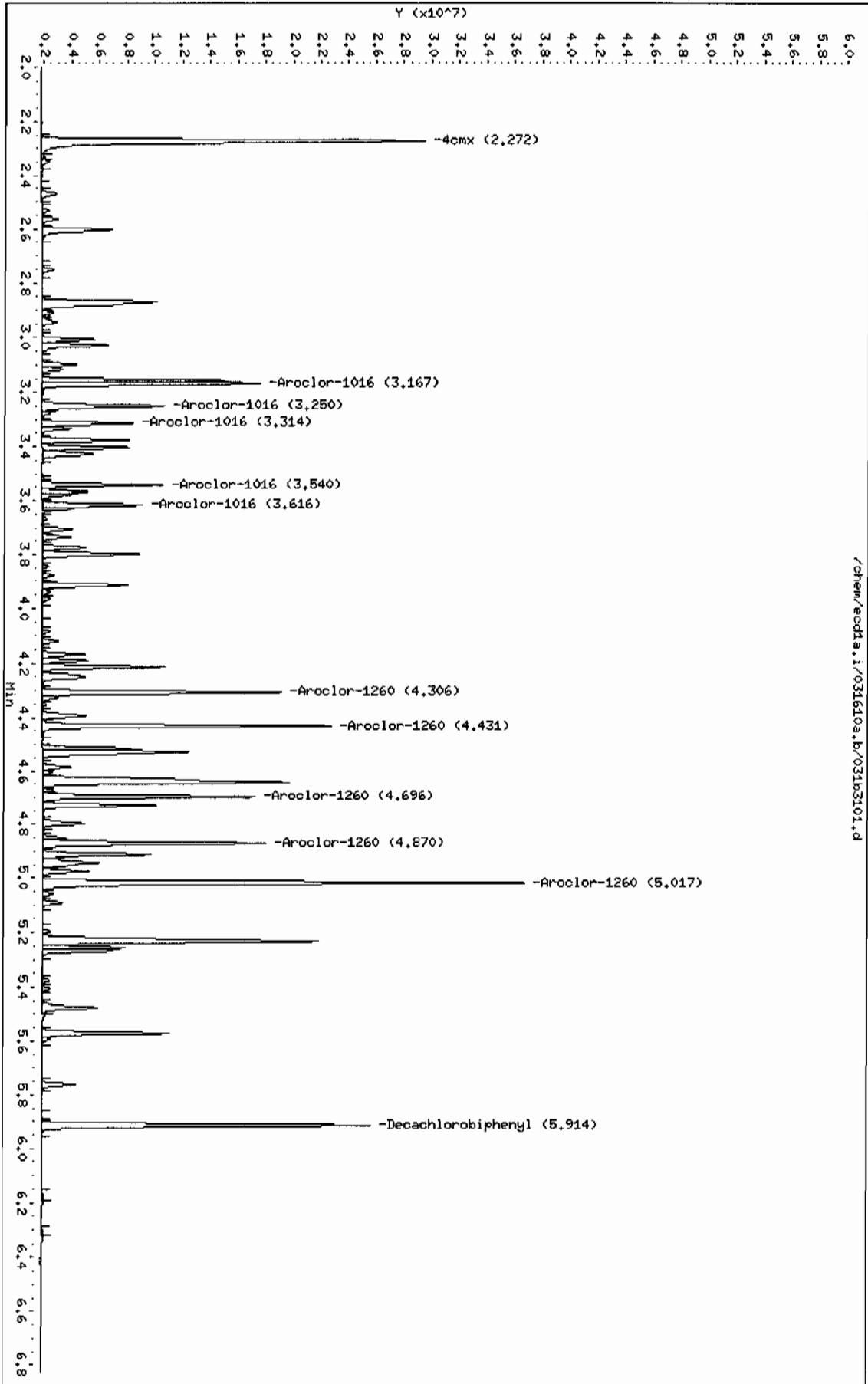
Column phase: CLP2

Instrument: ecdt1a.i

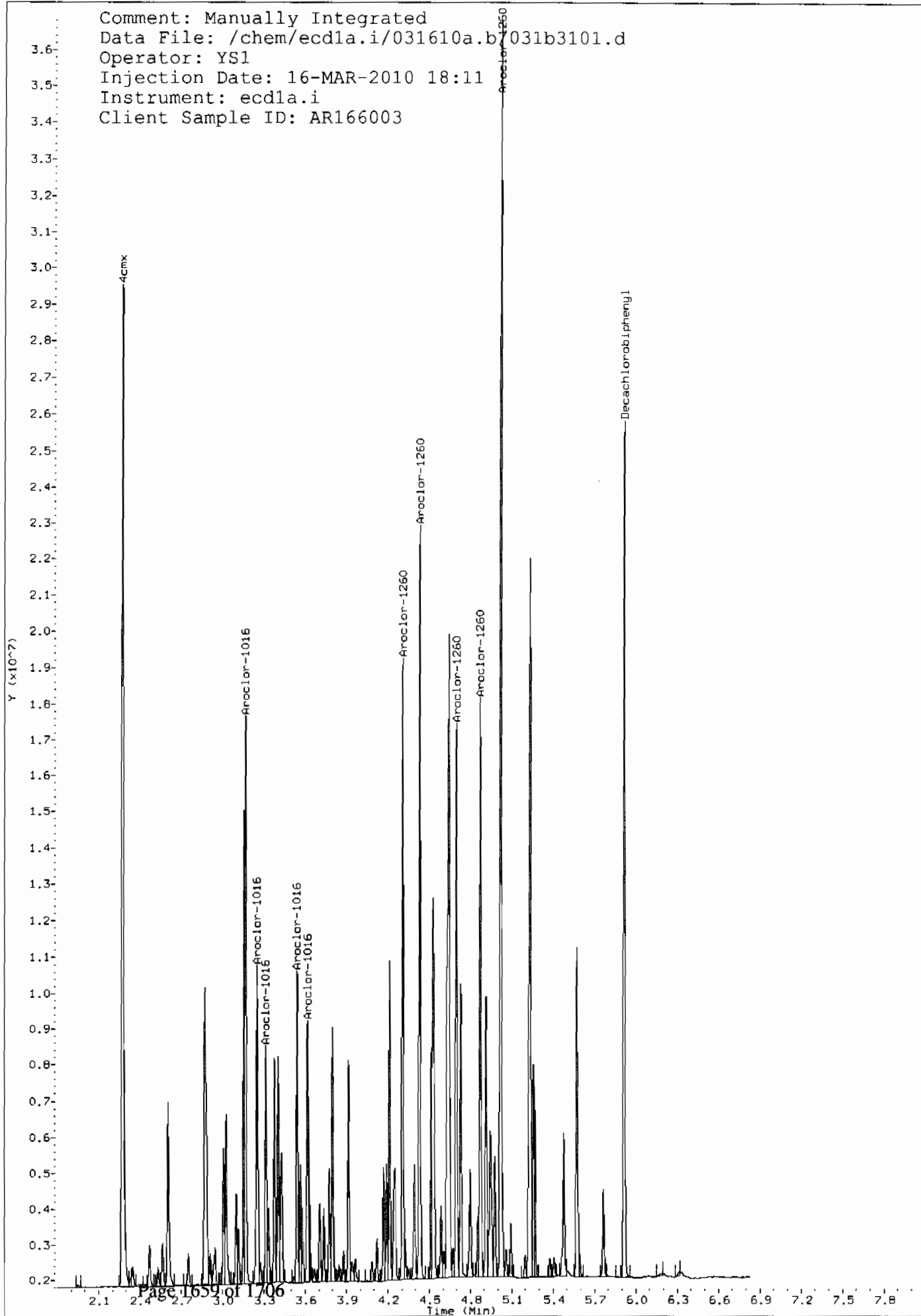
Operator: YSI

Column diameter: 0.25

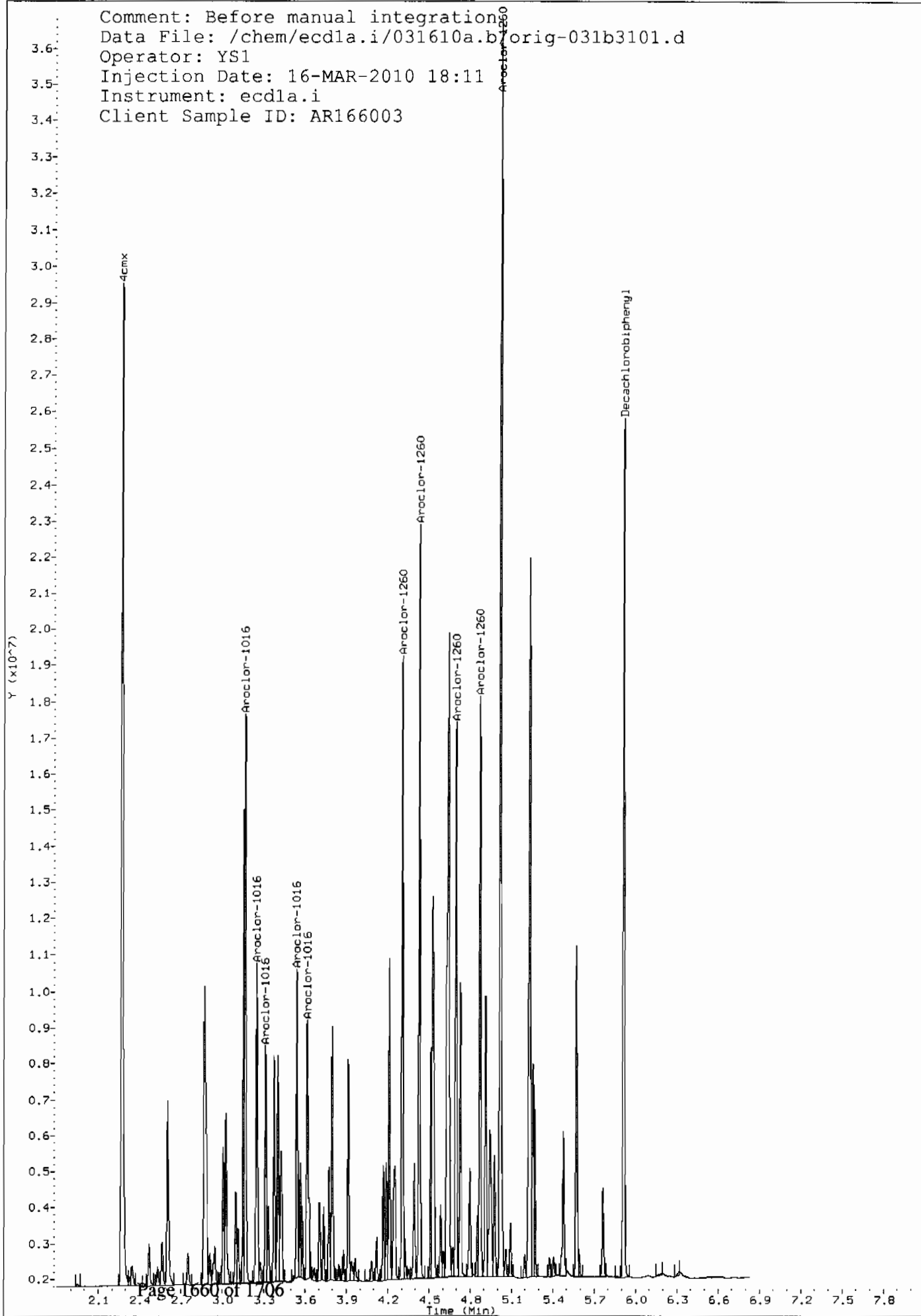
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Comment: Manually Integrated
Data File: /chem/ecdl1a.i/031610a.b/031b3101.d
Operator: YS1
Injection Date: 16-MAR-2010 18:11
Instrument: ecd1a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdl1.i/031610a.b/orig-031b3101.d
Operator: YS1
Injection Date: 16-MAR-2010 18:11
Instrument: ecd1a.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.: 10-2121

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.91		DCB: 5.22			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/11/10 1446	1.91	5.23
02	ZZZZZ	ZZZZZ	03/11/10 1456	1.92	5.22
03	ZZZZZ	ZZZZZ	03/11/10 1507		
04	ZZZZZ	ZZZZZ	03/11/10 1517		
05	ZZZZZ	ZZZZZ	03/11/10 1528		
06	AR126801	WAR100107-68	03/11/10 1538		
07	AR123201	WAR100104-32	03/11/10 1549		
08	AR122101	WAR100104-21	03/11/10 1559		
09	AR126201	WAR100104-62	03/11/10 1610		
10	DDTANALOGSTD	WAR091219-DD	03/11/10 1621		
11	AR166001	WAR100311-01	03/11/10 1631	1.92	5.22
12	AR166002	WAR100311-02	03/11/10 1641	1.92	5.22
13	AR166003	WAR100311-03	03/11/10 1652	1.92	5.22
14	AR166004	WAR100311-04	03/11/10 1702	1.91	5.22
15	AR166005	IAR100311-01	03/11/10 1713	1.92	5.22
16	AR166001	WAR100222-60	03/11/10 1724	1.91	5.22
17	AR125401	WAR100311-05	03/11/10 1734		
18	AR125402	WAR100311-06	03/11/10 1745		
19	AR125403	WAR100311-07	03/11/10 1755		
20	AR125404	WAR100311-08	03/11/10 1806		
21	AR125405	IAR100219-02	03/11/10 1816		
22	AR125401	WAR100219-54	03/11/10 1827		
23	AR124201	WAR100311-09	03/11/10 1837		
24	AR124202	WAR100311-10	03/11/10 1848		
25	AR124203	WAR100311-11	03/11/10 1858		
26	AR124204	WAR100311-12	03/11/10 1909		
27	AR124205	IAR100219-01	03/11/10 1919		
28	AR124201	WAR100219-42	03/11/10 1930		
29	AR124801	WAR100311-13	03/11/10 1940		
30	AR124802	WAR100311-14	03/11/10 1951		
31	AR124803	WAR100311-15	03/11/10 2001		
32	AR124804	WAR100311-16	03/11/10 2012		

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.: 10-2121

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.91		DCB: 5.22			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR124805	IAR100211-01	03/11/10 2022		
02	AR124801	WAR100223-48	03/11/10 2033		
03	PIBLK02	WAR100219-99	03/11/10 2044	1.91	5.22
04	ZZZZZ	ZZZZZ	03/11/10 2054	1.92	5.22
05	ZZZZZ	ZZZZZ	03/11/10 2105	1.92	5.22
06	ZZZZZ	ZZZZZ	03/11/10 2115	1.92	5.22
07	ZZZZZ	ZZZZZ	03/11/10 2126	1.92	5.22
08	ZZZZZ	ZZZZZ	03/11/10 2136	1.92	5.22
09	ZZZZZ	ZZZZZ	03/11/10 2147	1.92	5.22
10	ZZZZZ	ZZZZZ	03/11/10 2157	1.92	5.22
11	ZZZZZ	ZZZZZ	03/11/10 2208	1.92	5.22
12	ZZZZZ	ZZZZZ	03/11/10 2218	1.92	5.22
13	ZZZZZ	ZZZZZ	03/11/10 2229	1.92	5.22
14	AR166002	WAR100222-60	03/11/10 2239	1.91	5.22
15	PIBLK03	WAR100219-99	03/11/10 2250	1.91	5.22
16	ZZZZZ	ZZZZZ	03/11/10 2300	1.90	5.23
17	ZZZZZ	ZZZZZ	03/11/10 2311	1.92	5.22
18	ZZZZZ	ZZZZZ	03/11/10 2321	1.91	5.22
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.27			DCB: 5.92		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/11/10 1446	2.27	5.92
02	ZZZZZ	ZZZZZ	03/11/10 1456	2.27	5.92
03	ZZZZZ	ZZZZZ	03/11/10 1507		
04	ZZZZZ	ZZZZZ	03/11/10 1517		
05	ZZZZZ	ZZZZZ	03/11/10 1528		
06	AR126801	WAR100107-68	03/11/10 1538		
07	AR123201	WAR100104-32	03/11/10 1549		
08	AR122101	WAR100104-21	03/11/10 1559		
09	AR126201	WAR100104-62	03/11/10 1610		
10	DDTANALOGSTD	WAR091219-DD	03/11/10 1621		
11	AR166001	WAR100311-01	03/11/10 1631	2.27	5.92
12	AR166002	WAR100311-02	03/11/10 1641	2.27	5.92
13	AR166003	WAR100311-03	03/11/10 1652	2.27	5.92
14	AR166004	WAR100311-04	03/11/10 1702	2.27	5.92
15	AR166005	IAR100311-01	03/11/10 1713	2.27	5.92
16	AR166001	WAR100222-60	03/11/10 1724	2.27	5.92
17	AR125401	WAR100311-05	03/11/10 1734		
18	AR125402	WAR100311-06	03/11/10 1745		
19	AR125403	WAR100311-07	03/11/10 1755		
20	AR125404	WAR100311-08	03/11/10 1806		
21	AR125405	IAR100219-02	03/11/10 1816		
22	AR125401	WAR100219-54	03/11/10 1827		
23	AR124201	WAR100311-09	03/11/10 1837		
24	AR124202	WAR100311-10	03/11/10 1848		
25	AR124203	WAR100311-11	03/11/10 1858		
26	AR124204	WAR100311-12	03/11/10 1909		
27	AR124205	IAR100219-01	03/11/10 1919		
28	AR124201	WAR100219-42	03/11/10 1930		
29	AR124801	WAR100311-13	03/11/10 1940		
30	AR124802	WAR100311-14	03/11/10 1951		
31	AR124803	WAR100311-15	03/11/10 2001		
32	AR124804	WAR100311-16	03/11/10 2012		

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.: 10-2121
 GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.27			DCB: 5.92		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR124805	IAR100211-01	03/11/10	2022	
02	AR124801	WAR100223-48	03/11/10	2033	
03	PIBLK02	WAR100219-99	03/11/10	2044	2.27 5.92
04	ZZZZZ	ZZZZZ	03/11/10	2054	2.28 5.92
05	ZZZZZ	ZZZZZ	03/11/10	2105	2.28 5.92
06	ZZZZZ	ZZZZZ	03/11/10	2115	2.28 5.92
07	ZZZZZ	ZZZZZ	03/11/10	2126	2.28 5.92
08	ZZZZZ	ZZZZZ	03/11/10	2136	2.28 5.92
09	ZZZZZ	ZZZZZ	03/11/10	2147	2.28 5.92
10	ZZZZZ	ZZZZZ	03/11/10	2157	2.28 5.92
11	ZZZZZ	ZZZZZ	03/11/10	2208	2.28 5.92
12	ZZZZZ	ZZZZZ	03/11/10	2218	2.28 5.92
13	ZZZZZ	ZZZZZ	03/11/10	2229	2.28 5.92
14	AR166002	WAR100222-60	03/11/10	2239	2.27 5.92
15	PIBLK03	WAR100219-99	03/11/10	2250	2.27 5.92
16	ZZZZZ	ZZZZZ	03/11/10	2300	5.92
17	ZZZZZ	ZZZZZ	03/11/10	2311	5.23*
18	ZZZZZ	ZZZZZ	03/11/10	2321	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS
 S1 = 4cmx (+/- 0.03 MINUTES)
 DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-2121

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.92			DCB: 5.22		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/16/10 1220	1.91	5.22
02	AR166001	WAR100222-60	03/16/10 1230	1.91	5.22
03	AR125401	WAR100219-54	03/16/10 1241		
04	AR124201	WAR100219-42	03/16/10 1251		
05	AR124801	WAR100223-48	03/16/10 1302		
06	AR126801	WAR100107-68	03/16/10 1312		
07	AR123201	WAR100104-32	03/16/10 1323		
08	AR122101	WAR100104-21	03/16/10 1333		
09	AR126201	WAR100104-62	03/16/10 1344		
10	DDTANALOGSTD	WAR091219-DD	03/16/10 1354		
11	PIBLK02	WAR100219-99	03/16/10 1405	1.91	5.22
12	PBLK01	1202071391	03/16/10 1416	1.91	5.22
13	PBLK01LCS	1202071392	03/16/10 1426	1.91	5.22
14	ZZZZZ	ZZZZZ	03/16/10 1437	1.91	5.22
15	ZZZZZ	ZZZZZ	03/16/10 1449	1.91	5.22
16	ZZZZZ	ZZZZZ	03/16/10 1502	1.91	5.22
17	ZZZZZ	ZZZZZ	03/16/10 1515	1.91	5.22
18	ZZZZZ	ZZZZZ	03/16/10 1527	1.91	5.22
19	ZZZZZ	ZZZZZ	03/16/10 1540	1.91	5.22
20	AR166002	WAR100222-60	03/16/10 1552	1.91	5.22
21	PIBLK03	WAR100219-99	03/16/10 1605	1.91	5.22
22	RE36-10-7405	248197001	03/16/10 1617	1.91	5.22
23	RE36-10-7403	248197002	03/16/10 1630	1.91	5.22
24	RE36-10-7406	248197003	03/16/10 1643	1.91	5.22
25	RE36-10-7404	248197004	03/16/10 1655	1.91	5.21
26	RE36-10-7516	248197005	03/16/10 1708	1.91	5.22
27	ZZZZZ	ZZZZZ	03/16/10 1720	1.91	5.22
28	ZZZZZ	ZZZZZ	03/16/10 1733	1.91	5.22
29	ZZZZZ	ZZZZZ	03/16/10 1746	1.91	5.22
30	ZZZZZ	ZZZZZ	03/16/10 1758	1.91	5.22
31	AR166003	WAR100222-60	03/16/10 1811	1.91	5.22
32	PIBLK04	WAR100219-99	03/16/10 1823	1.91	5.22

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.: 10-2121

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 03/11/10 03/11/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.27			DCB: 5.92		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/16/10 1220	2.27	5.91
02	AR166001	WAR100222-60	03/16/10 1230	2.27	5.92
03	AR125401	WAR100219-54	03/16/10 1241		
04	AR124201	WAR100219-42	03/16/10 1251		
05	AR124801	WAR100223-48	03/16/10 1302		
06	AR126801	WAR100107-68	03/16/10 1312		
07	AR123201	WAR100104-32	03/16/10 1323		
08	AR122101	WAR100104-21	03/16/10 1333		
09	AR126201	WAR100104-62	03/16/10 1344		
10	DDTANALOGSTD	WAR091219-DD	03/16/10 1354		
11	PIBLK02	WAR100219-99	03/16/10 1405	2.27	5.91
12	PBLK01	1202071391	03/16/10 1416	2.27	5.92
13	PBLK01LCS	1202071392	03/16/10 1426	2.27	5.92
14	ZZZZZ	ZZZZZ	03/16/10 1437	2.27	5.92
15	ZZZZZ	ZZZZZ	03/16/10 1449	2.27	5.91
16	ZZZZZ	ZZZZZ	03/16/10 1502	2.27	5.91
17	ZZZZZ	ZZZZZ	03/16/10 1515	2.27	5.91
18	ZZZZZ	ZZZZZ	03/16/10 1527	2.27	5.91
19	ZZZZZ	ZZZZZ	03/16/10 1540	2.27	5.91
20	AR166002	WAR100222-60	03/16/10 1552	2.27	5.91
21	PIBLK03	WAR100219-99	03/16/10 1605	2.27	5.91
22	RE36-10-7405	248197001	03/16/10 1617	2.27	5.91
23	RE36-10-7403	248197002	03/16/10 1630	2.27	5.91
24	RE36-10-7406	248197003	03/16/10 1643	2.27	5.91
25	RE36-10-7404	248197004	03/16/10 1655	2.27	5.91
26	RE36-10-7516	248197005	03/16/10 1708	2.27	5.91
27	ZZZZZ	ZZZZZ	03/16/10 1720	2.27	5.91
28	ZZZZZ	ZZZZZ	03/16/10 1733	2.27	5.91
29	ZZZZZ	ZZZZZ	03/16/10 1746	2.27	5.91
30	ZZZZZ	ZZZZZ	03/16/10 1758	2.27	5.91
31	AR166003	WAR100222-60	03/16/10 1811	2.27	5.91
32	PIBLK04	WAR100219-99	03/16/10 1823	2.27	5.91

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: 10-2121

Client ID: LCS for batch 965377

Lab Sample ID: 1202071392

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 16-MAR-10 14:26

Analyzed: 16-MAR-10 14:26

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.91
Column 1	1	2.37	2.34 - 2.4	20.2		ug/kg	
	2	2.65	2.62 - 2.68	19.5		ug/kg	
	3	2.73	2.7 - 2.76	19.2		ug/kg	
	4	2.77	2.74 - 2.8	19.4		ug/kg	
	5	2.98	2.95 - 3.01	19.7		ug/kg	
					19.6		
Column 2	1	3.17	3.14 - 3.2	20.6		ug/kg	
	2	3.25	3.22 - 3.28	20		ug/kg	
	3	3.32	3.28 - 3.34	19.6		ug/kg	
	4	3.54	3.51 - 3.57	19.8		ug/kg	
	5	3.62	3.59 - 3.65	19.8		ug/kg	
					20		
Aroclor-1260							.653
Column 1	1	3.71	3.68 - 3.74	21.5		ug/kg	
	2	3.87	3.84 - 3.9	22		ug/kg	
	3	4.03	4 - 4.06	22.4		ug/kg	
	4	4.1	4.07 - 4.13	22		ug/kg	
	5	4.24	4.21 - 4.27	22.2		ug/kg	
					22		
Column 2	1	4.31	4.28 - 4.34	21.5		ug/kg	
	2	4.43	4.4 - 4.46	22		ug/kg	
	3	4.7	4.67 - 4.73	22		ug/kg	
	4	4.87	4.84 - 4.9	22.2		ug/kg	
	5	5.02	4.99 - 5.05	23.1		ug/kg	
					22.2		

Identification Summary

Page 1 of 1

SDG Number: 10-2121

Client ID: RE36-10-7403

Lab Sample ID: 248197002

Data File: 023f2301.d

Data File: 023b2301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 16-MAR-10 16:30

Analyzed: 16-MAR-10 16:30

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							49.7
<i>Column 1</i>	1	3.21	3.18 - 3.24	8.11		ug/kg	
	2	3.36	3.34 - 3.4	9.77		ug/kg	
	3	3.6	3.57 - 3.63	10.9		ug/kg	
	4	3.76	3.73 - 3.79	24.1		ug/kg	
	5	3.87	3.84 - 3.9	22.6		ug/kg	
					15.1		
<i>Column 2</i>	1	3.38	3.35 - 3.41	3.91		ug/kg	
	2	3.8	3.77 - 3.83	7.14		ug/kg	
	3	3.91	3.89 - 3.95	10.4		ug/kg	
	4	4.19	4.16 - 4.22	11.6		ug/kg	
	5	4.32	4.3 - 4.36	12.4		ug/kg	
					9.09		
Aroclor-1260							40.3
<i>Column 1</i>	1	3.7	3.68 - 3.74	10.6		ug/kg	
	2	3.87	3.84 - 3.9	13.4		ug/kg	
	3	4.03	4 - 4.06	22.2		ug/kg	
	4	4.1	4.07 - 4.13	3.2		ug/kg	
	5	4.24	4.21 - 4.27	2.22		ug/kg	
					10.3		
<i>Column 2</i>	1	4.31	4.28 - 4.34	11.7		ug/kg	
	2	4.43	4.4 - 4.46	11.5		ug/kg	
	3	4.7	4.67 - 4.73	5.26		ug/kg	
	4	4.87	4.84 - 4.9	2.46		ug/kg	
	5	5.02	4.99 - 5.05	3.37		ug/kg	
					6.86		

Identification Summary

Page 1 of 1

SDG Number: 10-2121

Client ID: RF36-10-7404

Lab Sample ID: 248197004

Data File: 025f2501.d

Data File: 025b2501.d

Inst: ECD1A.J_1

Inst: ECD1A.J_2

Column: CLP1

Column: CLP2

Analyzed: 16-MAR-10 16:55

Analyzed: 16-MAR-10 16:55

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							46.5
Column 1	1	3.21	3.18 – 3.24	8.4	15	ug/kg	
	2	3.36	3.34 – 3.4	10.4		ug/kg	
	3	3.6	3.57 – 3.63	12		ug/kg	
	4	3.76	3.73 – 3.79	17.7		ug/kg	
	5	3.87	3.84 – 3.9	26.6		ug/kg	
Column 2	1	3.38	3.35 – 3.41	3.38	9.37	ug/kg	
	2	3.8	3.77 – 3.83	7.84		ug/kg	
	3	3.91	3.89 – 3.95	10.6		ug/kg	
	4	4.19	4.16 – 4.22	11.8		ug/kg	
	5	4.32	4.3 – 4.36	13.3		ug/kg	
Aroclor-1260							36.2
Column 1	1	3.7	3.68 – 3.74	11.8	11.7	ug/kg	
	2	3.87	3.84 – 3.9	15.8		ug/kg	
	3	4.03	4 – 4.06	25.4		ug/kg	
	4	4.1	4.07 – 4.13	3.15		ug/kg	
	5	4.24	4.21 – 4.27	2.17		ug/kg	
Column 2	1	4.3	4.28 – 4.34	12.8	8.08	ug/kg	
	2	4.43	4.4 – 4.46	14.6		ug/kg	
	3	4.7	4.67 – 4.73	6.34		ug/kg	
	4	4.87	4.84 – 4.9	2.77		ug/kg	
	5	5.02	4.99 – 5.05	3.89		ug/kg	

Identification Summary

Page 1 of 1

SDG Number: 10-2121

Client ID: RE36-10-7405

Lab Sample ID: 248197001

Data File: 022f2201.d

Data File: 022b2201.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 16-MAR-10 16:17

Analyzed: 16-MAR-10 16:17

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							35.7
Column 1	1	3.21	3.18 - 3.24	3.4		ug/kg	
	2	3.36	3.34 - 3.4	6.04		ug/kg	
	3	3.6	3.57 - 3.63	7.5		ug/kg	
	4	3.76	3.73 - 3.79	7.71		ug/kg	
	5	3.87	3.84 - 3.9	14.7		ug/kg	
					7.87		
Column 2	1	3.38	3.35 - 3.41	2.62		ug/kg	
	2	3.8	3.77 - 3.83	3.23		ug/kg	
	3	3.91	3.89 - 3.95	7.11		ug/kg	
	4	4.19	4.16 - 4.22	8.24		ug/kg	
	5	4.33	4.3 - 4.36	6.22		ug/kg	
					5.48		
Aroclor-1260							27.2
Column 1	1	3.7	3.68 - 3.74	6.93		ug/kg	
	2	3.87	3.84 - 3.9	8.73		ug/kg	
	3	4.03	4 - 4.06	10.1		ug/kg	
	4	4.1	4.07 - 4.13	1.46		ug/kg	
	5	4.24	4.21 - 4.27	1.57		ug/kg	
					5.76		
Column 2	1	4.31	4.28 - 4.34	7.16		ug/kg	
	2	4.43	4.4 - 4.46	7.76		ug/kg	
	3	4.7	4.67 - 4.73	3.16		ug/kg	
	4	4.87	4.84 - 4.9	1.72		ug/kg	
	5	5.02	4.99 - 5.05	2.1		ug/kg	
					4.38		

Identification Summary

Page 1 of 1

SDG Number: 10-2121

Client ID: RE36-10-7516

Lab Sample ID: 248197005

Data File: 026f2601.d

Data File: 026b2601.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 16-MAR-10 17:08

Analyzed: 16-MAR-10 17:08

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							39.9
Column 1	1	3.21	3.18 – 3.24	4.17	8.37	ug/kg	
	2	3.36	3.34 – 3.4	5.42		ug/kg	
	3	3.6	3.57 – 3.63	7.93		ug/kg	
	4	3.76	3.73 – 3.79	8.22		ug/kg	
	5	3.87	3.84 – 3.9	16.1		ug/kg	
Column 2	1	3.38	3.35 – 3.41	1.98	5.59	ug/kg	
	2	3.8	3.77 – 3.83	3.88		ug/kg	
	3	3.91	3.89 – 3.95	7.33		ug/kg	
	4	4.19	4.16 – 4.22	8.34		ug/kg	
	5	4.33	4.3 – 4.36	6.42		ug/kg	
Aroclor-1260							27.7
Column 1	1	3.7	3.68 – 3.74	7.18	6.37	ug/kg	
	2	3.87	3.84 – 3.9	9.57		ug/kg	
	3	4.03	4 – 4.06	10.9		ug/kg	
	4	4.1	4.07 – 4.13	1.85		ug/kg	
	5	4.24	4.21 – 4.27	2.39		ug/kg	
Column 2	1	4.3	4.28 – 4.34	7.1	4.82	ug/kg	
	2	4.43	4.4 – 4.46	7.86		ug/kg	
	3	4.7	4.67 – 4.73	4.6		ug/kg	
	4	4.87	4.84 – 4.9	1.99		ug/kg	
	5	5.02	4.99 – 5.05	2.57		ug/kg	

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Lab Sample ID: 1202071391

Client Sample: QC for batch 965377

Client ID: MB for batch 965377

Batch ID: 965380

Run Date: 03/16/2010 14:16

Prep Date: 03/15/2010 21:25

Data File: 012f1201-1.d

012b1201-1.d

Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
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	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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/031610a.b/012f1201-1.d
Lab Smp Id: 1202071391
Inj Date : 16-MAR-2010 14:16
Operator : YS1
Smp Info : |1202071391|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecdla.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818
Cal Date : 22-FEB-2010 12:08
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: hpc1p1

Client Smp ID: PBLK01
Inst ID: ecdla.i
Quant Type: ESTD
Cal File: 036f3601.d
QC Sample: BLANK
Compound Sublist: 10-2121.sub
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	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
		ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
1.914	1.915	-0.001	50639361 130.004	4.3	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.220	5.220	0.000	39242756 132.161	4.4	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/031610a.b/012F1201-1.d

Date: 16-MAR-2010 14:16

Client ID: PBLK01

Sample Info: 1120207139111

Volume Injected (uL): 1.0

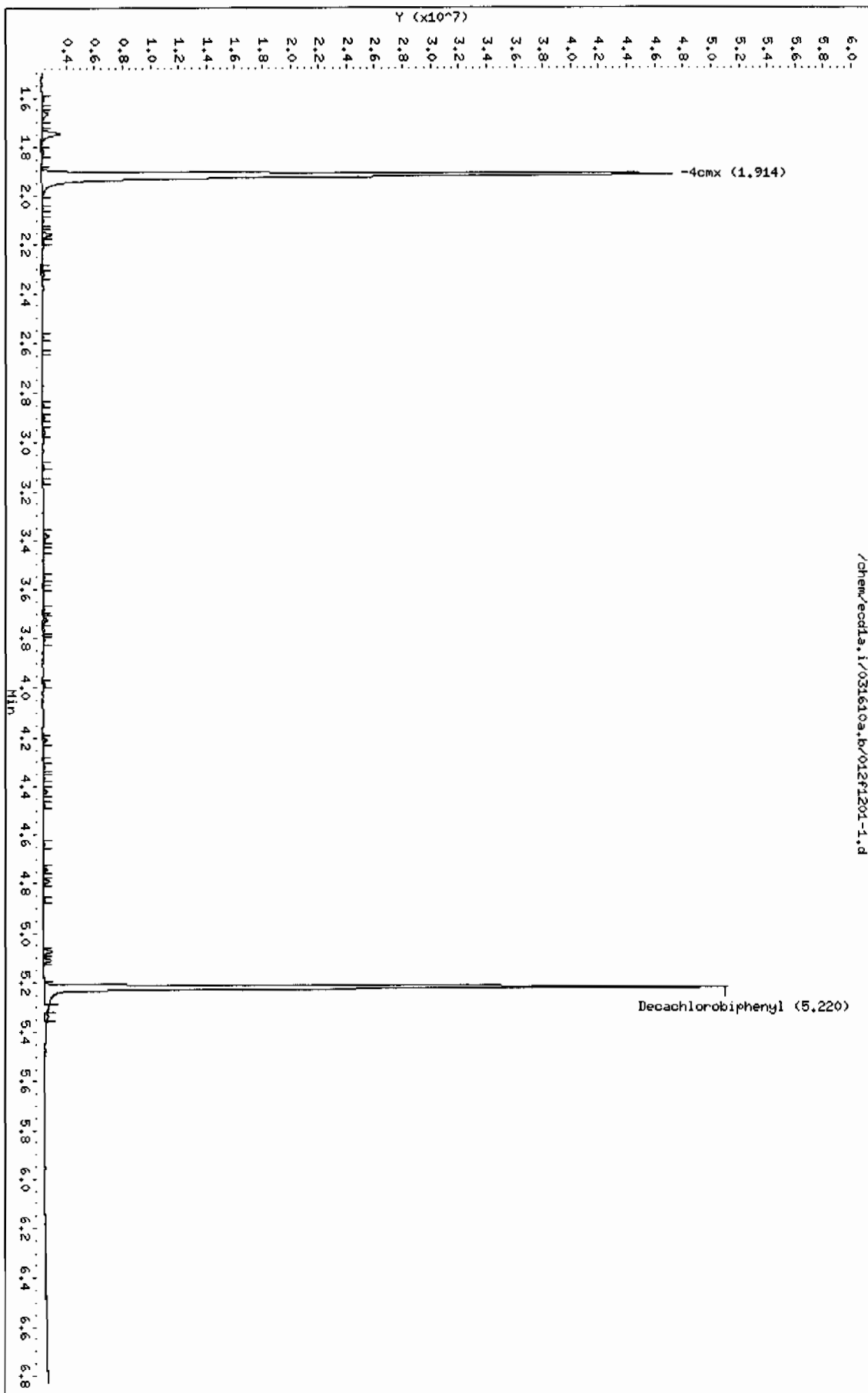
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSA

Column diameter: 0.25

/chem/ecdl.a.i/031610a.b/012F1201-1.d



Data File: /chem/ecd1a.i/031610a.b/012b1201-1.d
Report Date: 17-Mar-2010 12:39

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd1a.i/031610a.b/012b1201-1.d
Lab Smp Id: 1202071391 Client Smp ID: PBLK01
Inj Date : 16-MAR-2010 14:16
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202071391|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.sub
Target Version: 3.50 Sample Matrix: Soil
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	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							
2.272	2.273	-0.001	33649433	128.270	4.3 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.916	5.915	0.001	25307070	135.207	4.5 80.00- 120.00	100.00	

Data File: /chem/eod1a.i/031610a.b/01261201-1.d

Date : 16-MAR-2010 14:16

Client ID: PBLK01

Sample Info: 1120207139111

Volume Injected (uL): 1.0

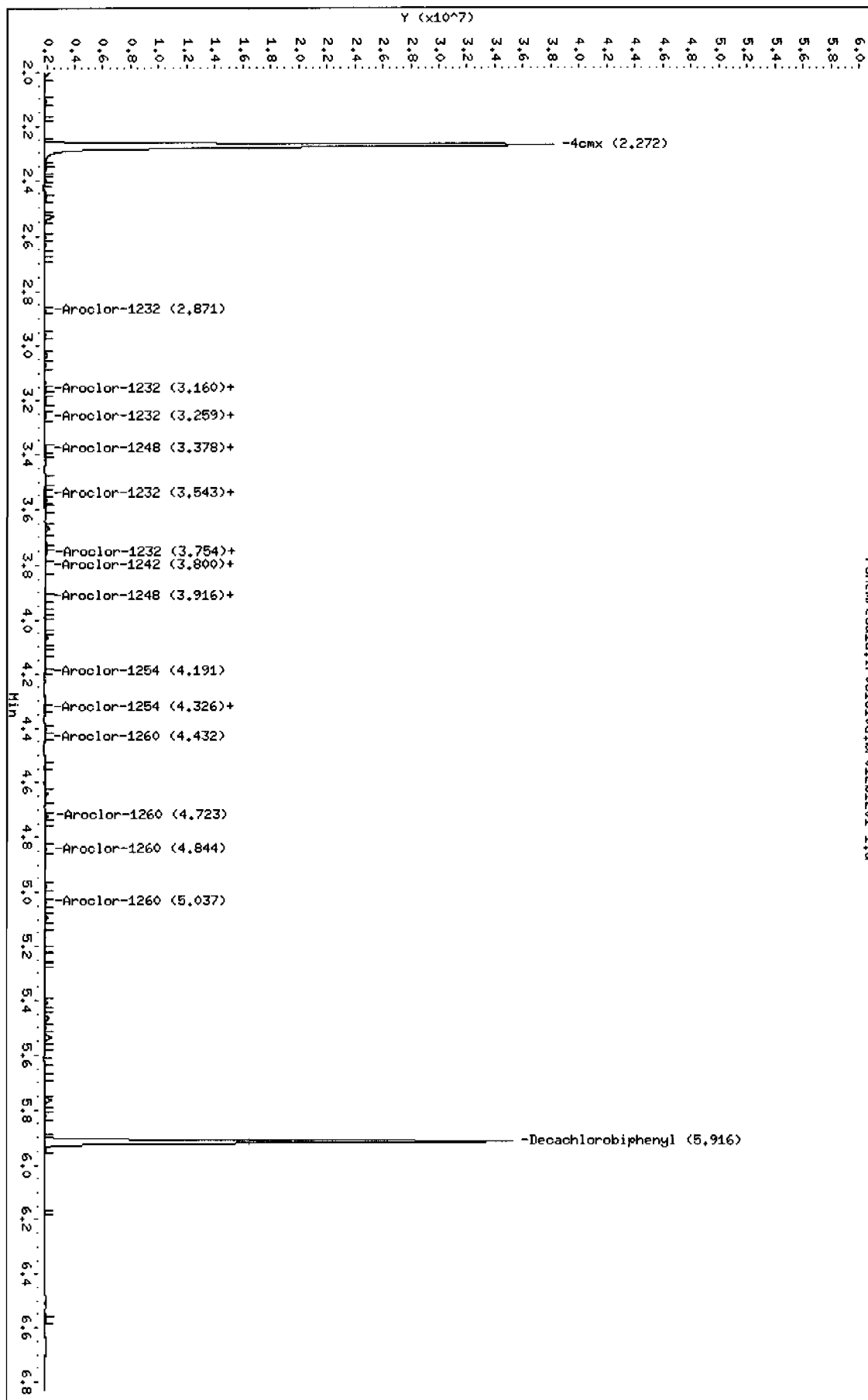
Column phase: CLP2

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

/chem/eod1a.i/031610a.b/01261201-1.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-2121

Lab Sample ID: 1202071392

Client Sample: QC for batch 965377

Client ID: LCS for batch 965377

Batch ID: 965380

Run Date: 03/16/2010 14:26

Prep Date: 03/15/2010 21:25

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

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.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.0	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		22.2	ug/kg	1.11	3.33	2

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/031610a.b/013f1301-1.d
 Lab Smp Id: 1202071392 Client Smp ID: PBLK01LCS
 Inj Date : 16-MAR-2010 14:26
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202071392|1|
 Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdl1.i/031610a.b/ECD1-F-8082-031110b.m
 Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2121.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.914	1.915	-0.001	50730080	130.236	4.3	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.220	5.220	0.000	38487864	129.619	4.3	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
2.368	2.366	0.002	9182887	605.061	20.2	80.00- 120.00	100.00	
2.654	2.654	0.000	11102321	586.315	19.5	108.81- 148.81	120.90	
2.734	2.734	0.000	7177331	576.856	19.2	62.30- 102.30	78.16	
2.772	2.771	0.001	4276768	582.006	19.4	29.44- 69.44	46.57	

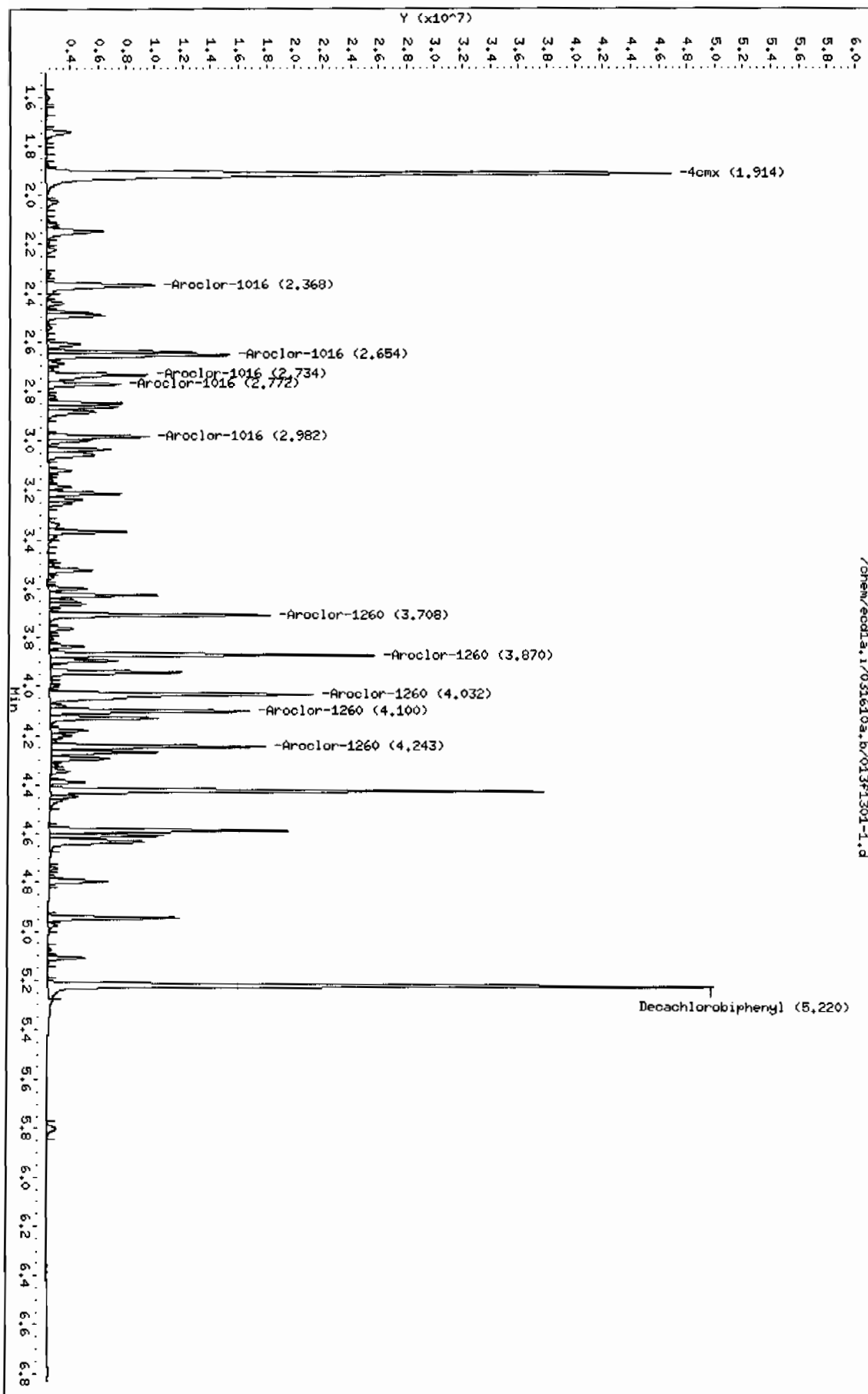
CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO	
			RESPONSE	(ug/L)	(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.982	2.982	0.000	5613738	589.816	19.7	43.36- 83.36	61.13	
Average of Peak Concentrations =					19.6			

7 Aroclor-1260					CAS #: 11096-82-5			
3.708	3.707	0.001	11814044	644.516	21.5	80.00- 120.00	100.00	
3.870	3.870	0.000	17712426	658.704	22.0	125.99- 165.99	149.93	
4.032	4.032	0.000	19013036	671.476	22.4	135.74- 175.74	160.94	
4.100	4.100	0.000	10682777	661.150	22.0	67.87- 107.87	90.42	
4.243	4.243	0.000	11215692	667.098	22.2	71.56- 111.56	94.94	
Average of Peak Concentrations =					22.0			

Data File: /chem/ecdl1a.i/031610a.b/013f1301-1.d
Date: 16-MAR-2010 14:26
Client ID: PBLK01LCS
Sample Info: 1120207139211
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25

Page 1



Data File: /chem/ecdl1a.i/031610a.b/013b1301-1.d
Report Date: 17-Mar-2010 12:39

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/013b1301-1.d
Lab Smp Id: 1202071392 Client Smp ID: PBLK01LCS
Inj Date : 16-MAR-2010 14:26
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202071392|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2121.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	
<hr/>							
\$ 11 4cmx					CAS #: 877-09-8		
2.273	2.273	0.000	33473377	127.599	4.2 80.00- 120.00	100.00	
<hr/>							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.916	5.915	0.001	24754308	132.253	4.4 80.00- 120.00	100.00	
<hr/>							
1 Aroclor-1016					CAS #: 12674-11-2		
3.169	3.168	0.001	7780608	618.246	20.6 80.00- 120.00	100.00(M)	
3.251	3.251	0.000	5183815	600.381	20.0 44.97- 84.97	66.62	
3.315	3.315	0.000	3112295	588.710	19.6 20.05- 60.05	40.00	
3.542	3.541	0.001	4100868	594.956	19.8 32.69- 72.69	52.71	

CONCENTRATIONS									
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO		
			RESPONSE	(ug/L)	(ug/Kg)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
3.617	3.617	0.000	3818861	594.601	19.8	29.39-	69.39	49.08	
Average of Peak Concentrations =					20.0				

7 Aroclor-1260					CAS #: 11096-82-5				
4.307	4.307	0.000	8428500	644.369	21.5	80.00-	120.00	100.00	
4.432	4.431	0.001	10244858	658.875	22.0	100.90-	140.90	121.55	
4.698	4.698	0.000	7853684	660.192	22.0	70.83-	110.83	93.18	
4.871	4.871	0.000	8192447	666.637	22.2	75.23-	115.23	97.20	
5.019	5.018	0.001	18331638	694.521	23.2	189.29-	229.29	217.50	
Average of Peak Concentrations =					22.2				

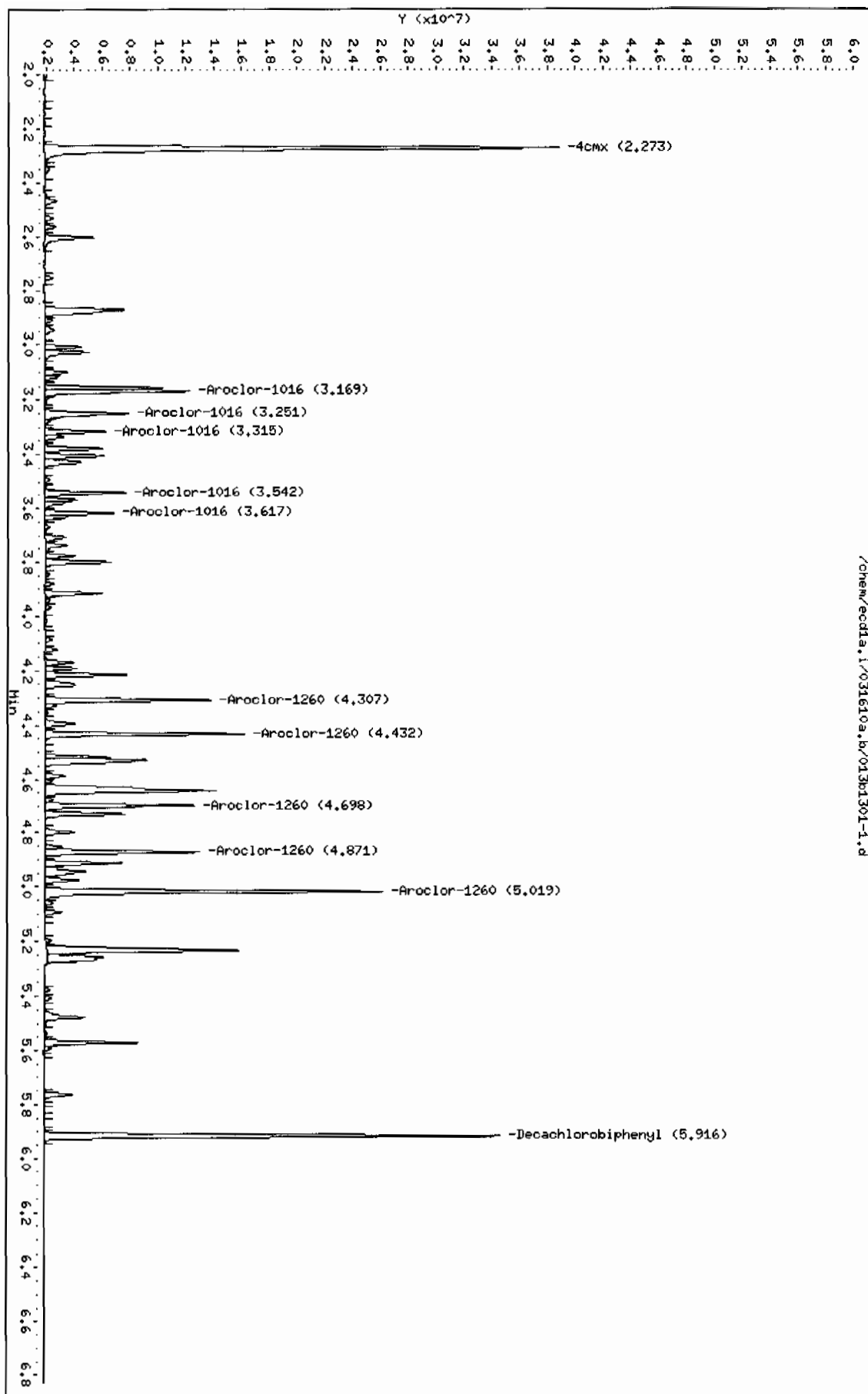
QC Flag Legend

M - Compound response manually integrated.

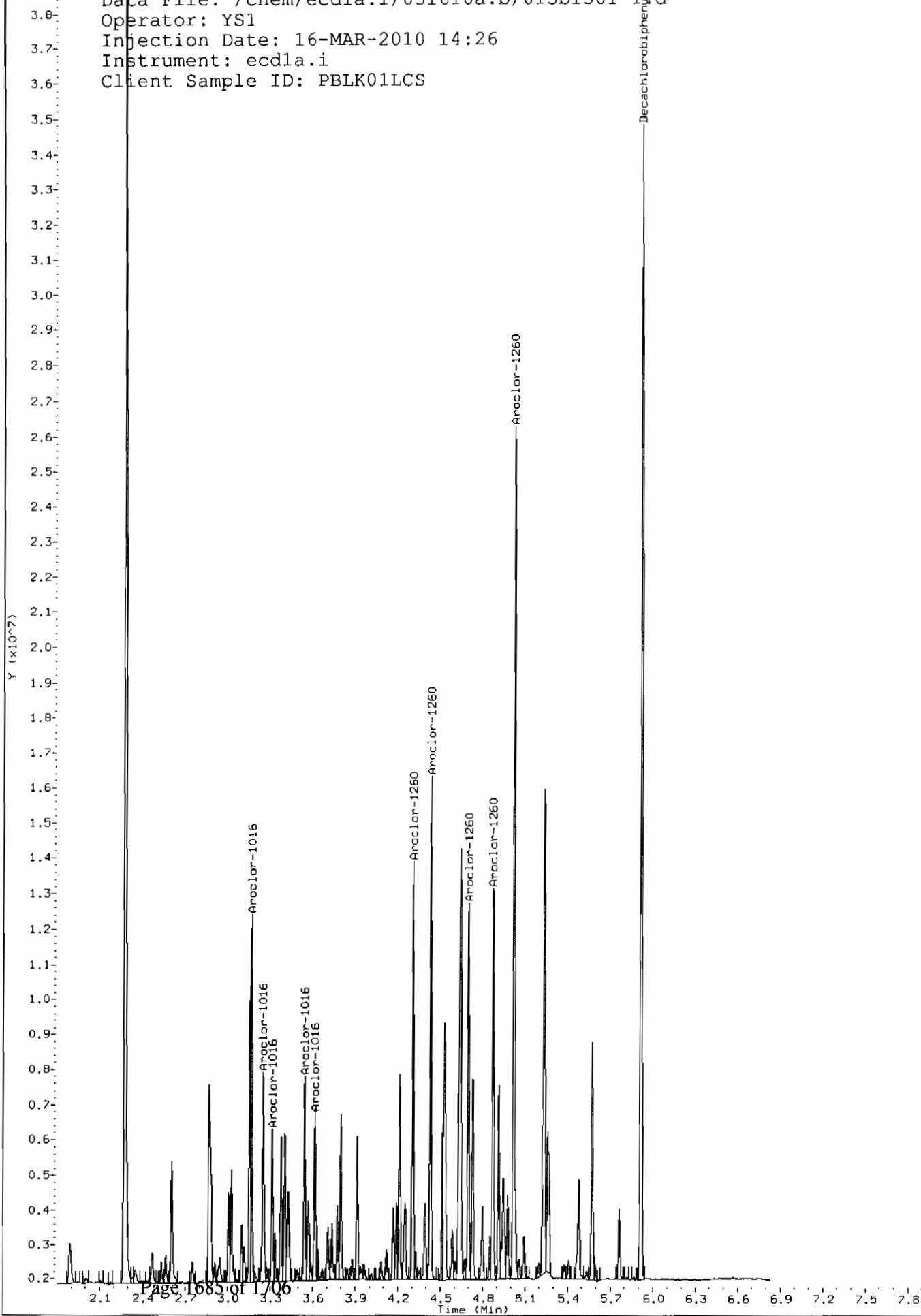
Data File: /chem/eod1a.i/031610a.b/013b1301-1.d
Date: 16-MAR-2010 14:26
Client ID: PLK01LCS
Sample Info: 1120207139211
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

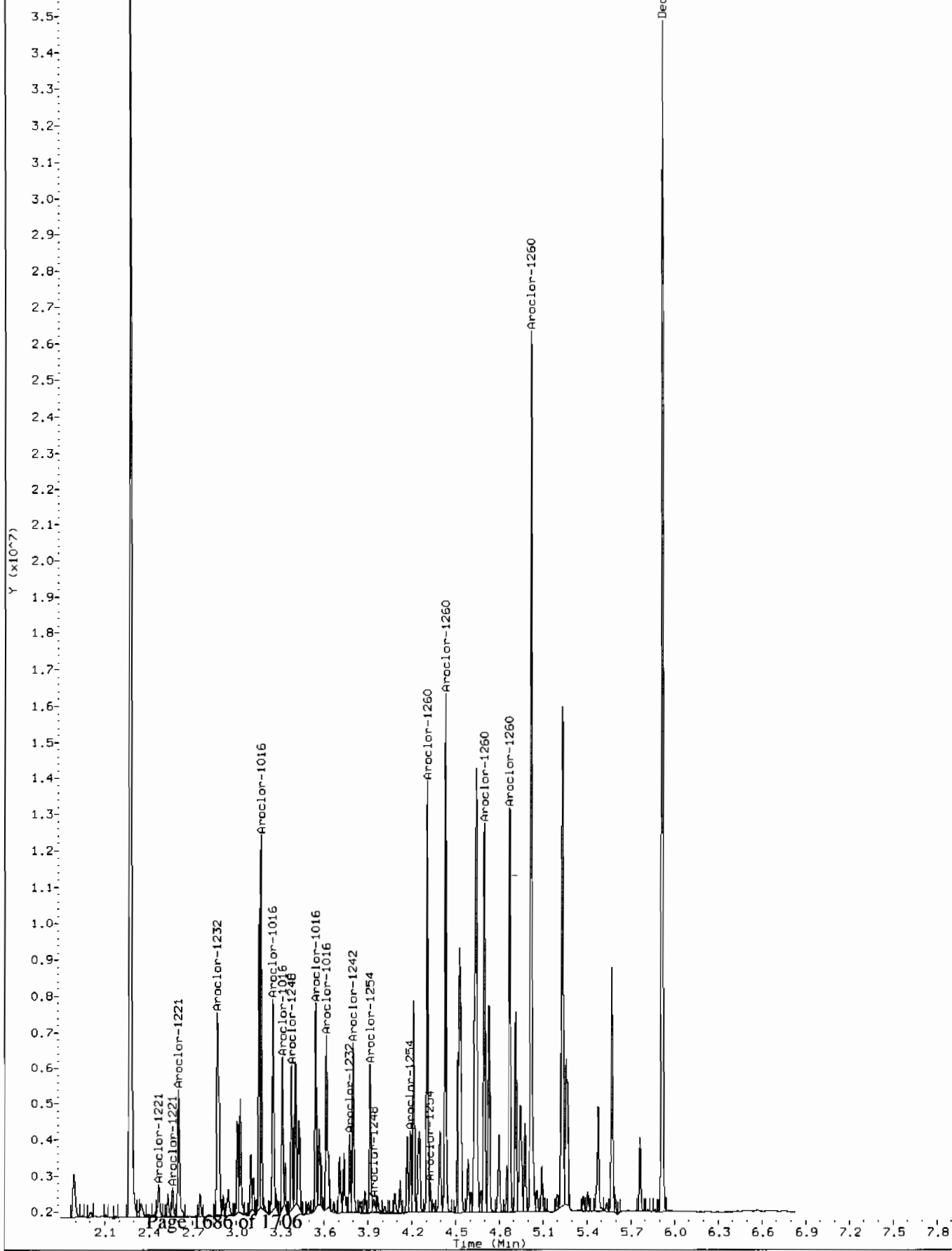
Page 1



Comment: Manually Integrated
Data File: /chem/ecdla.i/031610a.b/013b1301-11 d
Operator: YSl
Injection Date: 16-MAR-2010 14:26
Instrument: ecdla.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdl1.i/031610a.b/orig-013b1301-1.d
Operator: YS1
Injection Date: 16-MAR-2010 14:26
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/12/2010 METHOD: ECD1-F-8082-031110b.m OPERATOR: YS1 REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA936
ALUMINA LOT 1281992-A
COPPER LOT 1249397-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecdl1a.i/031110b.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	YS1	11-MAR-2010 14:46		031110b	1.01	CLEAN	
002f0201.d	WAR100222-60 01	YS1	11-MAR-2010 14:56		031110b	1.01	DUSE RE-ICAL	
003f0301.d	WAR100219-54	YS1	11-MAR-2010 15:07		031110b	1.01	DUSE RE-ICAL	
004f0401.d	WAR100219-42	YS1	11-MAR-2010 15:17		031110b	1.01	DUSE RE-ICAL	
005f0501.d	WAR100223-48	YS1	11-MAR-2010 15:28		031110b	1.01	DUSE RE-ICAL	
006f0601.d	WAR100107-68	YS1	11-MAR-2010 15:38		031110b	1.01	PASSED ON BOTH COLUMNS	
007f0701.d	WAR100104-32	YS1	11-MAR-2010 15:49		031110b	1.01	PATTERN ONLY	
008f0801.d	WAR100104-21	YS1	11-MAR-2010 15:59		031110b	1.01	PATTERN ONLY	
009f0901.d	WAR100104-62	YS1	11-MAR-2010 16:10		031110b	1.01	PATTERN ONLY	
010f1001.d	WAR091219-DDT	YS1	11-MAR-2010 16:21		031110b	1.01	DDT ANALOG STANDARD	
011f1101.d	WAR100311-01	YS1	11-MAR-2010 16:31		031110b	1.01	ARI660 I-CAL LEVEL 1	
012f1201.d	WAR100311-02	YS1	11-MAR-2010 16:41		031110b	1.01	ARI660 I-CAL LEVEL 2	
013f1301.d	WAR100311-03	YS1	11-MAR-2010 16:52		031110b	1.01	ARI660 I-CAL LEVEL 3	
014f1401.d	WAR100311-04	YS1	11-MAR-2010 17:02		031110b	1.01	ARI660 I-CAL LEVEL 4	
015f1501.d	WAR100311-01	YS1	11-MAR-2010 17:13		031110b	1.01	ARI660 I-CAL LEVEL 5	

Instrument Batch: /chem/ecdl1a.i/031110b.b Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR100222-60 01	YS1	11-MAR-2010 17:24		031110b		1.01		PASSED ON BOTH COLUMNS
017f1701.d	WAR100311-05	YS1	11-MAR-2010 17:34	|	031110b	|	1.01	|	ARI254 I-CAL LEVEL 1
018f1801.d	WAR100311-06	YS1	11-MAR-2010 17:45	|	031110b	|	1.01	|	ARI254 I-CAL LEVEL 2
019f1901.d	WAR100311-07	YS1	11-MAR-2010 17:55	|	031110b	|	1.01	|	ARI254 I-CAL LEVEL 3
020f2001.d	WAR100311-08	YS1	11-MAR-2010 18:06	|	031110b	|	1.01	|	ARI254 I-CAL LEVEL 4
021f2101.d	WAR100219-02	YS1	11-MAR-2010 18:16	|	031110b	|	1.01	|	ARI254 I-CAL LEVEL 5
022f2201.d	WAR100219-54	YS1	11-MAR-2010 18:27	|	031110b	|	1.01	|	PASSED ON BOTH COLUMNS
023f2301.d	WAR100311-09	YS1	11-MAR-2010 18:37	|	031110b	|	1.01	|	ARI242 I-CAL LEVEL 1
024f2401.d	WAR100311-10	YS1	11-MAR-2010 18:48	|	031110b	|	1.01	|	ARI242 I-CAL LEVEL 2
025f2501.d	WAR100311-11	YS1	11-MAR-2010 18:58	|	031110b	|	1.01	|	ARI242 I-CAL LEVEL 3
026f2601.d	WAR100311-12	YS1	11-MAR-2010 19:09	|	031110b	|	1.01	|	ARI242 I-CAL LEVEL 4
027f2701.d	WAR100219-01	YS1	11-MAR-2010 19:19	|	031110b	|	1.01	|	ARI242 I-CAL LEVEL 5
028f2801.d	WAR100219-42	YS1	11-MAR-2010 19:30	|	031110b	|	1.01	|	PASSED ON BOTH COLUMNS
029f2901.d	WAR100311-13	YS1	11-MAR-2010 19:40	|	031110b	|	1.01	|	ARI248 I-CAL LEVEL 1
030f3001.d	WAR100311-14	YS1	11-MAR-2010 19:51	|	031110b	|	1.01	|	ARI248 I-CAL LEVEL 2
031f3101.d	WAR100311-15	YS1	11-MAR-2010 20:01	|	031110b	|	1.01	|	ARI248 I-CAL LEVEL 3
032f3201.d	WAR100311-16	YS1	11-MAR-2010 20:12	|	031110b	|	1.01	|	ARI248 I-CAL LEVEL 4
033f3301.d	WAR100211-01	YS1	11-MAR-2010 20:22	|	031110b	|	1.01	|	ARI248 I-CAL LEVEL 5
034f3401.d	WAR100223-48	YS1	11-MAR-2010 20:33	|	031110b	|	1.01	|	PASSED ON BOTH COLUMNS
035f3501.d	WAR100219-99 02	YS1	11-MAR-2010 20:44		031110b		1.01		CLEAN

Instrument Batch: /chem/ecdla.i/031110b.b

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Data File	GE Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1202067743	YS1	11-MAR-2010 20:54	963869	246954	1.01MB		DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
1037f3701.d	1202067744	YS1	11-MAR-2010 21:05	963869	246954	1.01LCS		DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
1038f3801.d	246954003	YS1	11-MAR-2010 21:15	963869	246954	1.01BBES		DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
1039f3901.d	1202067745	YS1	11-MAR-2010 21:26	963869	246954	1.01MS		DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
1040f4001.d	1202067746	YS1	11-MAR-2010 21:36	963869	246954	1.01MSD		DUSE CON FIRMATION FOR THE SAMPLES HAD HIT

041f4101.d	246954006	YS1	11-MAR-2010 21:47	963869	246954	1.0	BBS	DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
042f4201.d	246954007	YS1	11-MAR-2010 21:57	963869	246954	1.0	BBS	DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
043f4301.d	246954009	YS1	11-MAR-2010 22:08	963869	246954	1.0	BBS	DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
044f4401.d	246954012	YS1	11-MAR-2010 22:18	963869	246954	1.0	BBS	DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
045f4501.d	246954014	YS1	11-MAR-2010 22:29	963869	246954	1.0	BBS	DUSE CON FIRMATION FOR THE SAMPLES HAD HIT
046f4601.d	WAR100222-60 02	YS1	11-MAR-2010 22:39		031110b	1.0		PASSED ON BOTH COLUMNS
046f4901.d	WAR100222-60 03	YS1	11-MAR-2010 23:11		031110b	1.0		CLEAN
047f4701.d	WAR100219-99 03	YS1	11-MAR-2010 22:50		031210	1.0		
047f5001.d	WAR100219-99 04	YS1	11-MAR-2010 23:21		031110b	1.0		
048f4801.d	WE100311-07SCR	YS1	11-MAR-2010 23:00		031110b	1.0		LCS GREEN FOR PREP

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/17/2010 METHOD: ECD1-F-8082-031110b.m OPERATOR:YS1 REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA936
ALUMINA LOT 1281992-A
COPPER LOT 1249397-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/031610a.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	YS1	16-MAR-2010 12:20		031610a	1.01	CLEAN	
002f0201.d	WAR100222-60 01	YS1	16-MAR-2010 12:30		031610a	1.01	PASSED ON BOTH COLUMNS	
003f0301.d	WAR100219-54	YS1	16-MAR-2010 12:41		031610a	1.01	PASSED ON BOTH COLUMNS	
004f0401.d	WAR100219-42	YS1	16-MAR-2010 12:51		031610a	1.01	PASSED ON BOTH COLUMNS	
005f0501.d	WAR100223-48	YS1	16-MAR-2010 13:02		031610a	1.01	PASSED ON BOTH COLUMNS	
006f0601.d	WAR100107-68	YS1	16-MAR-2010 13:12		031610a	1.01	PASSED ON BOTH COLUMNS	
007f0701.d	WAR100104-32	YS1	16-MAR-2010 13:23		031610a	1.01	PATTERN ONLY	
008f0801.d	WAR100104-21	YS1	16-MAR-2010 13:33		031610a	1.01	PATTERN ONLY	
009f0901.d	WAR100104-62	YS1	16-MAR-2010 13:44		031610a	1.01	PATTERN ONLY	
010f1001.d	WAR091219-00T	YS1	16-MAR-2010 13:54		031610a	1.01	DDT ANALOG STANDARD	
011f1101.d	WAR100219-99 02	YS1	16-MAR-2010 14:05		031610a	1.01	CLEAN	
012f1201.d	1202071391	YS1	16-MAR-2010 14:16	1965380	10-2105	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
013f1301.d	1202071392	YS1	16-MAR-2010 14:26	1965380	10-2105	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
014f1401.d	248161001	YS1	16-MAR-2010 14:37	1965380	10-2105	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
015f1501.d	248161002	YS1	16-MAR-2010 14:49	1965380	10-2105	1.01LANL	UPLOAD BOTH COLUMNS, USE HIGHER	

Instrument Batch: /chem/ecd1a.i/031610a.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	248161003	YS1	16-MAR-2010 15:02	965380	10-2105	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
017f1701.d	248161004	YS1	16-MAR-2010 15:15	965380	10-2105	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
018f1801.d	248161005	YS1	16-MAR-2010 15:27	965380	10-2105	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
019f1901.d	248161006	YS1	16-MAR-2010 15:40	965380	10-2105	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
020f2001.d	WARI00222-60 02	YS1	16-MAR-2010 15:52		031610a	1.0		PASSED ON BOTH COLUMNS
021f2101.d	WARI00219-99 03	YS1	16-MAR-2010 16:05		031610a	1.0		CLEAN
022f2201.d	248197001	YS1	16-MAR-2010 16:17	965380	10-2121	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
023f2301.d	248197002	YS1	16-MAR-2010 16:30	965380	10-2121	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
024f2401.d	248197003	YS1	16-MAR-2010 16:43	965380	10-2121	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
025f2501.d	248197004	YS1	16-MAR-2010 16:55	965380	10-2121	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
026f2601.d	248197005	YS1	16-MAR-2010 17:08	965380	10-2121	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
027f2701.d	248202001	YS1	16-MAR-2010 17:20	965380	10-2124	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	1202071393	YS1	16-MAR-2010 17:33	965380	10-2124	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
029f2901.d	1202071394	YS1	16-MAR-2010 17:46	965380	10-2124	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
030f3001.d	248202002	YS1	16-MAR-2010 17:58	965380	10-2124	1.0	LANL	USE RR 10X
031f3101.d	WARI00222-60 03	YS1	16-MAR-2010 18:11		031610a	1.0		PASSED ON BOTH COLUMNS
032f3201.d	WARI00219-99 04	YS1	16-MAR-2010 18:23		031610a	1.0		CLEAN
033f3301.d	H2PCBT1	YS1	16-MAR-2010 18:36		031610a	1.0		USE NEW RUNNING METHOD TEST
034f3401.d	H2PCBT2	YS1	16-MAR-2010 18:50		031610a	1.0		USE NEW RUNNING METHOD TEST
035f3501.d	H2PCBT3	YS1	16-MAR-2010 19:03		031610a	1.0		USE NEW RUNNING METHOD TEST

Instrument Batch: /chem/ecdl1a.i/031610a.b Page: 2

Data File	GE5 Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	H2PCBT4	YS1	16-MAR-2010 19:17		031610a	1.0		USE NEW RUNNING METHOD TEST

Data File: /chem/ecdl1a.i/031610a.b/028b2801.d
Report Date: 17-Mar-2010 08:11

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/031610a.b/028b2801.d
Lab Smp Id: 1202071393 Client Smp ID: RE36-10-8282MS
Inj Date : 16-MAR-2010 17:33
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202071393|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MS|
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2124.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	30.17000	Weight of sample extracted (g)
M	8.69570	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====								
S 11 4cmx CAS #: 877-09-8								
2.271	2.273	-0.002	34806608	132.681	4.8	80.00- 120.00	100.00	

S 12 Decachlorobiphenyl CAS #: 2051-24-3								
5.914	5.915	-0.001	27387055	146.319	5.3	80.00- 120.00	100.00	

1 Aroclor-1016 CAS #: 12674-11-2								
3.167	3.168	-0.001	7139848	567.331	20.6	80.00- 120.00	100.00 (M)	
3.250	3.251	-0.001	4761525	551.472	20.0	48.22- 88.22	66.69	
3.313	3.315	-0.002	2851692	539.415	19.6	21.88- 61.88	39.94	
3.540	3.541	-0.001	3965469	575.313	20.9	35.49- 75.49	55.54	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.615	3.617	-0.002	3691563	574.780	20.9	30.58-	70.58	62.45
Average of Peak Concentrations =					20.4			

7 Aroclor-1260					CAS #: 11096-82-5			
4.305	4.307	-0.002	8793887	672.304	24.4	80.00-	120.00	100.00
4.430	4.431	-0.001	11165511	718.084	26.1	101.10-	141.10	126.97
4.696	4.698	-0.002	8439200	709.411	25.8	71.58-	111.58	95.97
4.869	4.871	-0.002	8366984	680.840	24.7	75.48-	115.48	95.15
5.016	5.018	-0.002	19371173	733.906	26.6	189.32-	229.32	220.28
Average of Peak Concentrations =					25.5			

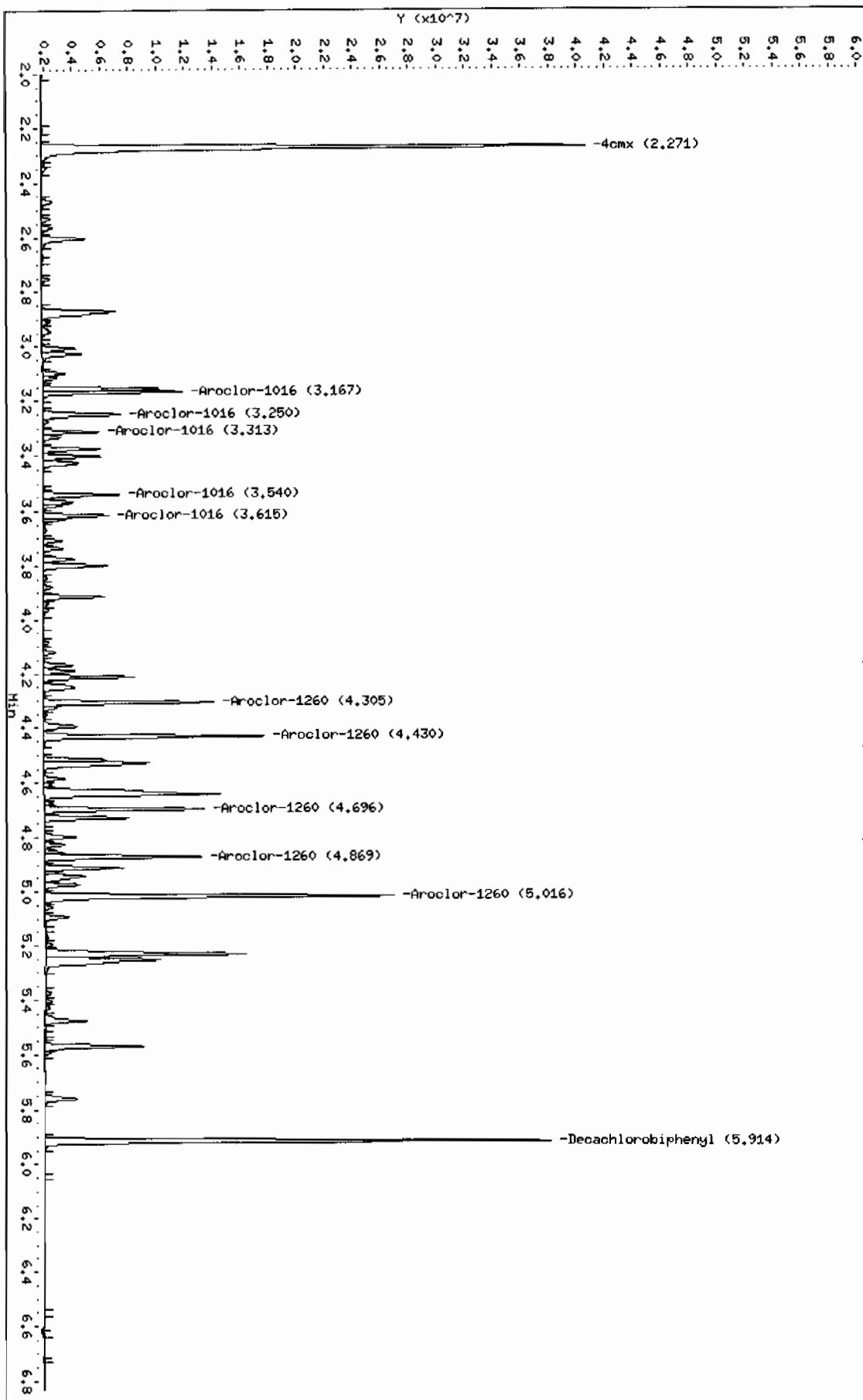
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eod1a.i/031610a.b/028b2801.d
Date: 16-MAR-2010 17:33
Client ID: RE36-10-8282HS
Sample Info: 1120207139311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25

/chem/eod1a.i/031610a.b/028b2801.d



Data File: /chem/ecdl1a.i/031610a.b/028f2801.d
Report Date: 17-Mar-2010 08:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/031610a.b/028f2801.d
Lab Smp Id: 1202071393 Client Smp ID: RE36-10-8282MS
Inj Date : 16-MAR-2010 17:33
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202071393|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 28 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2124.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	30.17000	Weight of sample extracted (g)
M	8.69570	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
=====						
\$ 11 4cmx				CAS #: 877-09-8		
1.913	1.915	-0.002	52634482	135.125	4.9 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.216	5.220	-0.004	44691577	150.512	5.5 80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.365	2.366	-0.001	8311299	547.632	19.9 80.00- 120.00	100.00
2.652	2.654	-0.002	10813530	571.064	20.7 108.81- 148.81	130.11
2.732	2.734	-0.002	6774808	544.504	19.8 62.30- 102.30	81.51
2.770	2.771	-0.001	3931167	534.975	19.4 29.44- 69.44	47.30

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	==	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
2.980	2.982	-0.002	5288247	555.618	20.2	43.36-	83.36	63.63	
Average of Peak Concentrations					20.0				

7 Aroclor-1260					CAS #: 11096-82-5				
3.705	3.707	-0.002	12386193	675.730	24.5	80.00-	120.00	100.00	
3.867	3.870	-0.003	19020398	707.345	25.7	125.99-	165.99	153.56	
4.030	4.032	-0.002	20060720	708.476	25.7	135.74-	175.74	161.96	
4.097	4.100	-0.003	11671698	722.354	26.2	67.87-	107.87	94.23	
4.240	4.243	-0.003	11621007	691.205	25.1	71.56-	111.56	93.82	
Average of Peak Concentrations					25.4				

Data File: /chem/eod1a.i/031610a.b/028f2801.d

Date: 16-MAR-2010 17:33

Client ID: RE36-10-8282HS

Sample Info: 11202071393111

Volume Injected (uL): 1.0

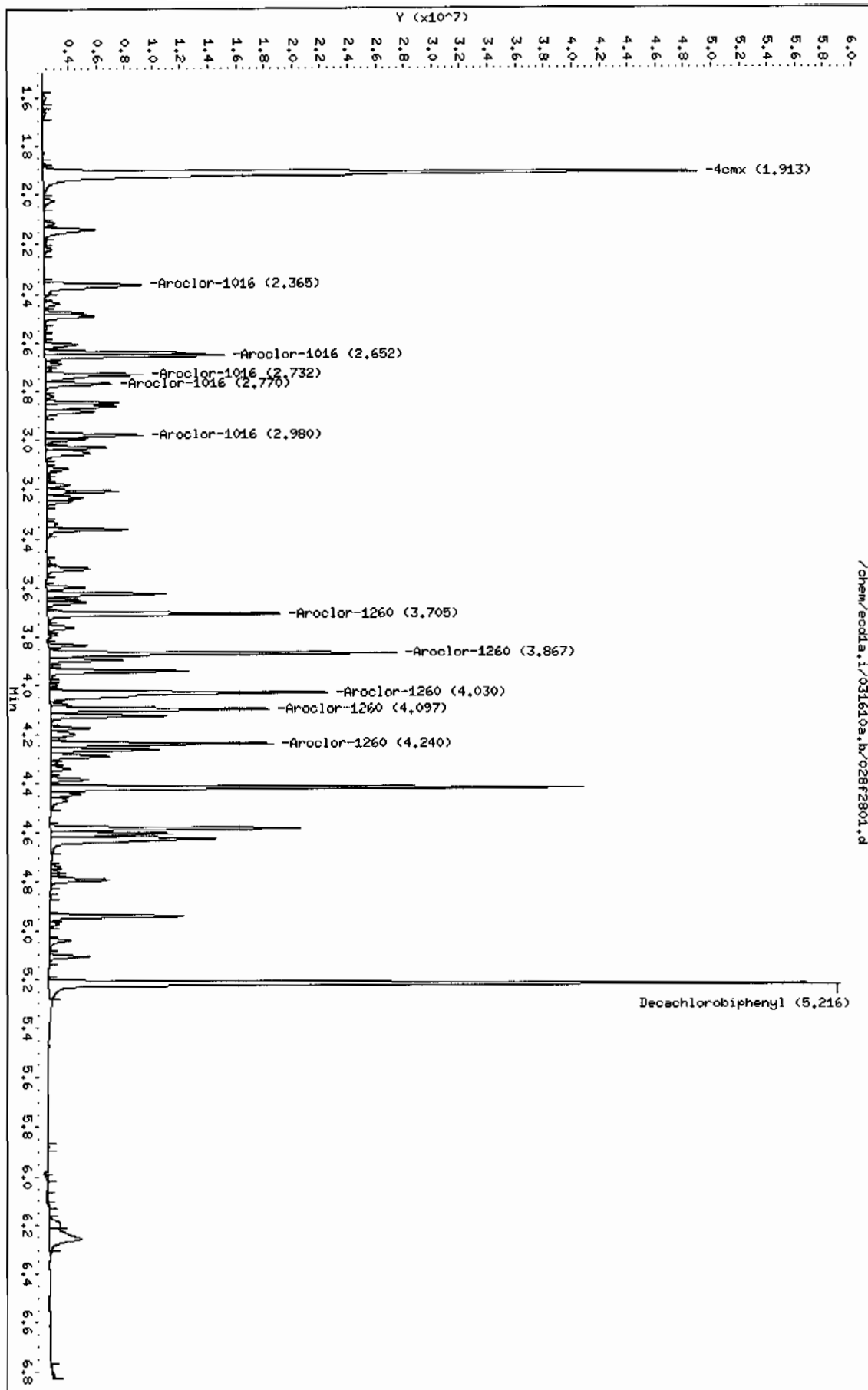
Column phase: CLP1

Instrument: eod1a.i

Operator: YSA

Column diameter: 0.25

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/031610a.b/029b2901.d
 Lab Smp Id: 1202071394 Client Smp ID: RE36-10-8282MSD
 Inj Date : 16-MAR-2010 17:46
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202071394|1|
 Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MSD|1|1|
 Comment :
 Method : /chem/ecdl1a.i/031610a.b/ECD1-B-8082-031110b.m
 Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 29 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-2124.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	30.18000	Weight of sample extracted (g)
M	8.69570	% 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				
2.272	2.273	-0.001	38030287	144.970	5.3	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
5.914	5.915	-0.001	29525173	157.742	5.7	80.00-	120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2				
3.167	3.168	-0.001	8032120	638.231	23.2	80.00-	120.00	100.00 (M)
3.250	3.251	-0.001	5234433	606.244	22.0	48.22-	88.22	65.17
3.314	3.315	-0.001	3137971	593.567	21.5	21.88-	61.88	39.07
3.541	3.541	0.000	4306456	624.783	22.7	35.49-	75.49	53.62

CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE		RATIO
			RESPONSE (ug/L)		(ug/Kg)			
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.616	3.617	-0.001	4000460	622.876	22.6	30.58-	70.58	60.26
Average of Peak Concentrations =					22.4			

7 Aroclor-1260					CAS #: 11096-82-5			
4.306	4.307	-0.001	9472270	724.167	26.3	80.00-	120.00	100.00
4.431	4.431	0.000	12017897	772.904	28.0	101.10-	141.10	126.87
4.696	4.698	-0.002	9060294	761.621	27.6	71.58-	111.58	95.65
4.869	4.871	-0.002	9041079	735.692	26.7	75.48-	115.48	95.45
5.016	5.018	-0.002	20988187	795.169	28.8	189.32-	229.32	221.58
Average of Peak Concentrations =					27.5			

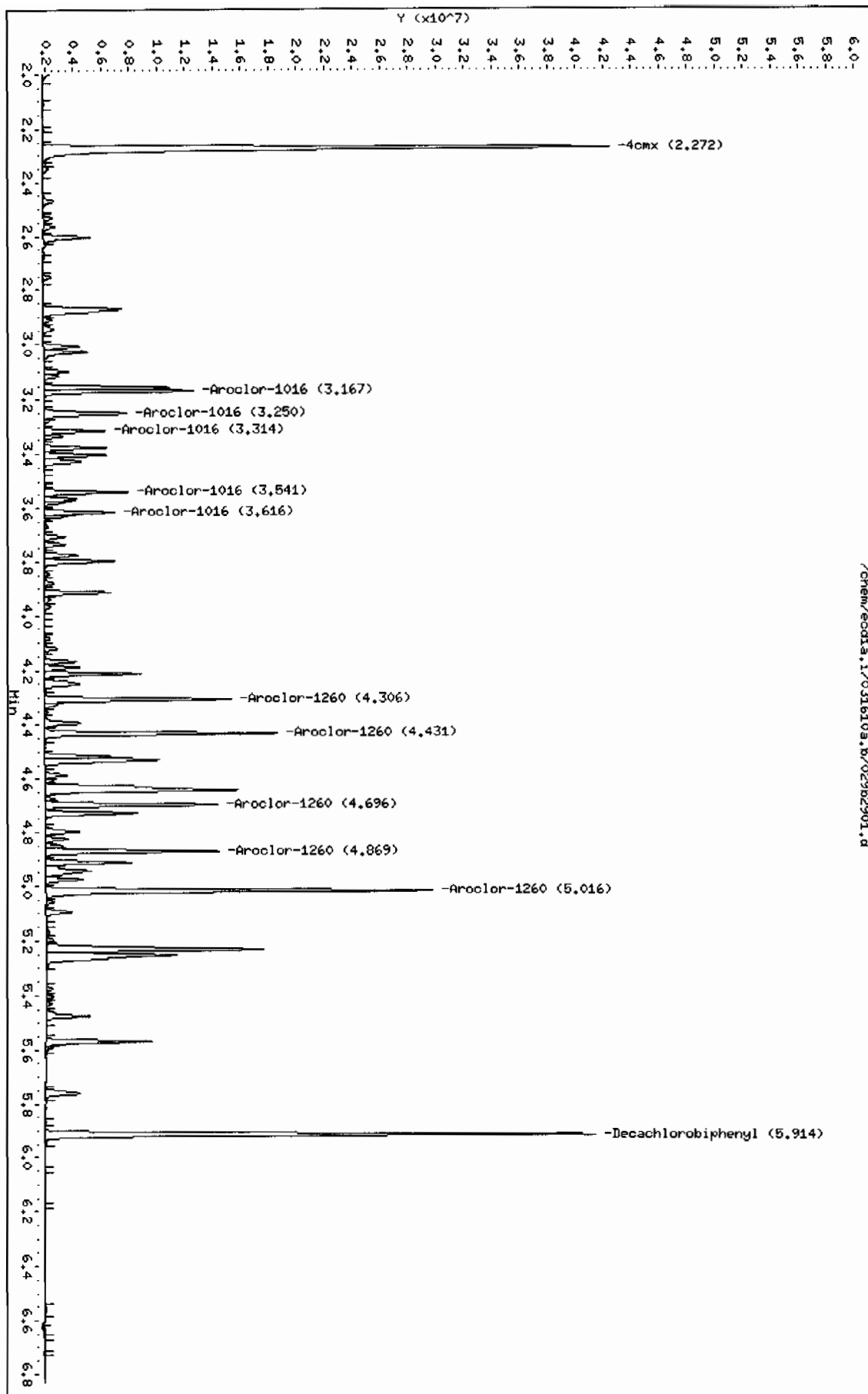
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/031610a.b/029b2901.d
Date: 16-MAR-2010 17:46
Client ID: RE36-10-8282MSD
Sample Info: 11202071394111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eodla.i
Operator: YSA
Column diameter: 0.25

/chem/eodla.i/031610a.b/029b2901.d



Data File: /chem/ecdl1a.i/031610a.b/029f2901.d
Report Date: 17-Mar-2010 08:12

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/031610a.b/029f2901.d
Lab Smp Id: 1202071394 Client Smp ID: RE36-10-8282MSD
Inj Date : 16-MAR-2010 17:46
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202071394|1|
Misc Info : |ECD82P_1S|965380|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecdl1a.i/031610a.b/ECD1-F-8082-031110b.m
Meth Date : 17-Mar-2010 07:58 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 29 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-2124.sub
Target Version: 3.50 Sample Matrix: Soil
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	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	8.69570	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
=====						
\$ 11 4cmx				CAS #: 877-09-8		
1.913	1.915	-0.002	57167020	146.762	5.3 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.217	5.220	-0.003	47925230	161.402	5.8 80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.366	2.366	0.000	9212188	606.991	22.0 80.00- 120.00	100.00
2.652	2.654	-0.002	12083707	638.142	23.2 108.81- 148.81	131.17
2.733	2.734	-0.001	7392174	594.123	21.6 62.30- 102.30	80.24
2.770	2.771	-0.001	4285460	583.189	21.2 29.44- 69.44	46.52

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
2.981	2.982	-0.001	5833620	612.918	22.2	43.36-	83.36	63.33
Average of Peak Concentrations =					22.0			

7 Aroclor-1260					CAS #: 11096-82-5			
3.705	3.707	-0.002	13626236	743.381	27.0	80.00-	120.00	100.00
3.868	3.870	-0.002	20685988	769.287	27.9	125.99-	165.99	151.81
4.030	4.032	-0.002	21857163	771.920	28.0	135.74-	175.74	160.40
4.098	4.100	-0.002	12643967	782.527	28.4	67.87-	107.87	92.79
4.241	4.243	-0.002	12706429	755.765	27.4	71.56-	111.56	93.25
Average of Peak Concentrations =					27.7			

Data File: /chem/eod1a.i/031610a.b/029f2901.d

Date: 16-MAR-2010 17:46

Client ID: RE36-10-8282MSD

Sample Info: 11202071394111

Volume Injected (uL): 1.0

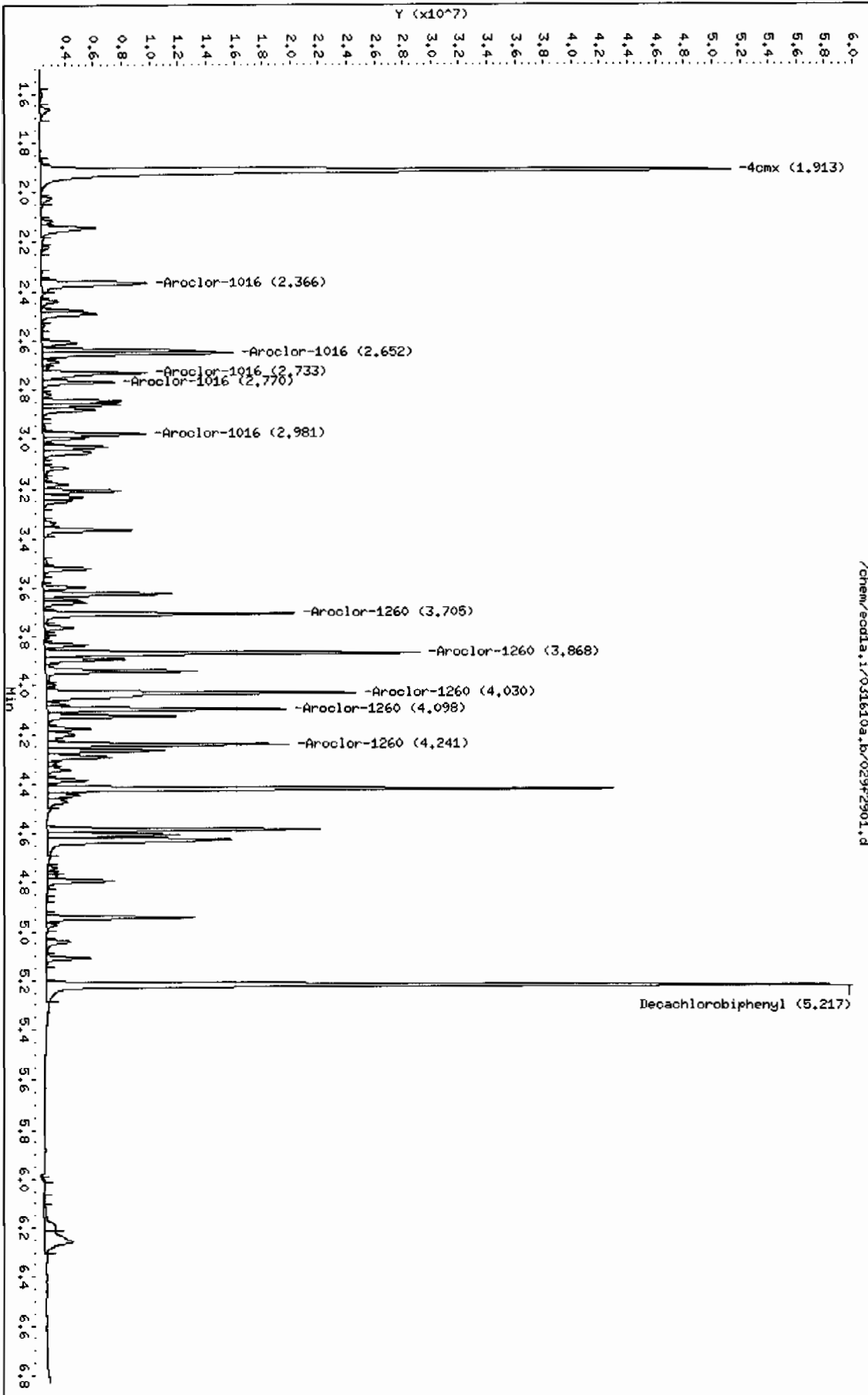
Column phase: CLP1

Instrument: eod1a.i

Operator: YSL

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: 965377 Verified by: _____

Analyst: Andrew Schwemlin

Method: SW846 3550B

Lab SOP: GL-OA-E-010 REV# 18

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202071391 MB	15-MAR-2010 21:25:00	30	H2SO4/KM2	2	9	1	0.03333	
1202071392 LCS	15-MAR-2010 21:25:00	30	H2SO4/KM2	2	9	1	0.03333	
248161001	15-MAR-2010 21:25:00	30.12	H2SO4/KM2	2	9	1	0.0332	
248161002	15-MAR-2010 21:25:00	30.09	H2SO4/KM2	2	9	1	0.03323	
248161003	15-MAR-2010 21:25:00	30.02	H2SO4/KM2	2	9	1	0.03331	
248161004	15-MAR-2010 21:25:00	30.17	H2SO4/KM2	2	9	1	0.03315	
248161005	15-MAR-2010 21:25:00	30.09	H2SO4/KM2	2	9	1	0.03323	
248161006	15-MAR-2010 21:25:00	30.11	H2SO4/KM2	2	9	1	0.03323	
248197001	15-MAR-2010 21:25:00	30.17	H2SO4/KM2	2	9	1	0.03315	
248197002	15-MAR-2010 21:25:00	30.15	H2SO4/KM2	2	9	1	0.03317	
248197003	15-MAR-2010 21:25:00	30.02	H2SO4/KM2	2	9	1	0.03328	
248197004	15-MAR-2010 21:25:00	30.05	H2SO4/KM2	2	9	1	0.0332	
248197005	15-MAR-2010 21:25:00	30.12	H2SO4/KM2	2	9	1	0.03315	
1202071393 MS (248202001)	15-MAR-2010 21:25:00	30.18	H2SO4/KM2	2	9	1	0.03319	
1202071394 MSD (248202001)	15-MAR-2010 21:25:00	30.13	H2SO4/KM2	2	9	1		

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202071392	PCB Laboratory Control	WE100224-07	1	mL	Clean up Date: 3/15/10
MS	1202071393	PCB Laboratory Control	WE100224-07	1	mL	Clean up Initials: AJS
MSD	1202071394	PCB Laboratory Control	WE100224-07	1	mL	Verified By: AAW
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100302-16	1	mL	Final Solvent: Hexane
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037
REGNT	All	Acetone	1273823-B1	150	mL	
REGNT	All	Hexane	1279345-B2	150	mL	
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL	
SOURC	All	SODIUM SULFATE	1274910	30	g	