

Monday, February 22, 2010

REQUEST NUMBER: 10-1982

Page 1 of 2

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1982

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/22/2010

TURNAROUND/REPORT DUE: 3/24/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	
		1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
	SW-846:8260B	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	

Monday, February 22, 2010

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REQUEST NUMBER: 10-1982

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8260B	1	1	RE15-10-8326	R	2/17/2010	
			RE15-10-8335	S	2/17/2010	
			RE15-10-8316	R	2/17/2010	
			RE15-10-8317	R	2/17/2010	
			RE15-10-8318	R	2/17/2010	
SW-846:8270C	1	1	RE15-10-8319	R	2/17/2010	
			RE15-10-8326	R	2/17/2010	
			RE15-10-8316	R	2/17/2010	
			RE15-10-8317	R	2/17/2010	
			RE15-10-8318	R	2/17/2010	
SW-846:8321A_MOD	1	1	RE15-10-8319	R	2/17/2010	
			RE15-10-8326	R	2/17/2010	
			RE15-10-8316	R	2/17/2010	
			RE15-10-8317	R	2/17/2010	
			RE15-10-8318	R	2/17/2010	
	1	1	RE15-10-8319	R	2/17/2010	
			RE15-10-8326	R	2/17/2010	
			RE15-10-8316	R	2/17/2010	
			RE15-10-8317	R	2/17/2010	
			RE15-10-8318	R	2/17/2010	

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Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1982

LOS ALAMOS

REQUEST NUMBER: 10-1982

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8335	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8317	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8317	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8319	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8319	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8316	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8316	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8326	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8326	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8318	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8318	1	SEPTUM AMBER GLASS	8260B	Ice	R

Relinquished By:

Date Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8316

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		14:17		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610837	OK		FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	47.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	50.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION:

#	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		
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:

Light brownish gray, slightly indurated nonwelded, dy, devitrified ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: below 2nd tank inlet 2/15/10

96-5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 dpm
Beta/Gamma = 2010 dpm

PID Ambient Reading = ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

R. Saunders

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name) Jeff W	2/18/10
(Signature) Jon R. Marin	9:30	(Signature)	935
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8317

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:		QBT3	
TIME COLLECTED(HH:MM)		14:35		SUB-MEDIA:		TUFF 1	
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610837	OK		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		NA	
TOP DEPTH:	0	58.5 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	60.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES (NO) NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		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		
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:

Light gray, non indurated, non welded, devitrified, dry, ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 96-5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 25 dpm
Beta/Gamma \pm 2080 dpm

PID $\frac{\text{Ambient Reading}}{2/17/10} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. MARIN

R. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name) J. Marin	2/18/10
(Signature) J. Marin	9:30	(Signature)	935
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8318

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		14:51		SUB-MEDIA:		TUFF 1	
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610837			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	68.5 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	70.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	42M 2/17/10 2082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM 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:

Light brownish gray NON indurated, non welded, dehydrified, dry
stream bed ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 96-5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm
Beta/Gamma = 1912 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name) Jeyul	2/18/10
(Signature) Jon R. Marin	9:30	(Signature)	935
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8319

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		15:08		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610837			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	78.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	80.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE <input checked="" type="checkbox"/> YES/NO/NA		BOREHOLE DECLINATION:	-90°	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		
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:

Light brownish gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC:

96-5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 36 dpm
Beta/Gamma = 1983 dpm

PID ^{14m} _{2/17/10} Ambient Reading = ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARY

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARY	2/18/10	(Printed Name) J. Mary	2/18/10
(Signature) Jon R. Mary	9:30	(Signature)	9:38
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8326

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		14:17		SUB-MEDIA:		TUFF 1	
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK	15-610837		FIELD QC TYPE:		FD	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		NA	
TOP DEPTH:	0	47.5 ft		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0	50.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE:		NA		COMPOSITE TIME INTERVAL:		NA	
BOREHOLE: YES/NO/NA		NA		WATER FLOWING: YES/NO/NA		NO	
BOREHOLE DECLINATION:		-90°		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		
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: QC Sample of RE15-10-8316

Light brownish gray, slightly indurated, non welded, devitrified, dry ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 96-5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 dpm
Beta/Gamma = 2010 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

JON MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name) [Signature]	2/18/10
(Signature) Jon R. Marin	2:30	(Signature)	8:25
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8330

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/17/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		15:25		SUB-MEDIA:	OTHER		
PRS ID:	15-009(b)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610837		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	W	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION: -90°			
				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	Normal	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-8319

SAMPLE COMMENTS: NA

LOCATION DESC: 96-5

FIELD SCREENING/MEASUREMENT RESULTS: NA

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name)	2/18/10
(Signature) Jon R. Marin	9:30	(Signature)	9:35
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2506

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

SAMPLE ID: RE15-10-8335

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/17/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		12:30	SUB-MEDIA:	OTHER	
PRS ID:	15-009(b)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610837	FIELD QC TYPE:	FTB	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0	SCREEN/PORT DESC:		N/A
FIELD MATRIX:	S	OK	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	N/A	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: -90°		
			BOREHOLE DIRECTION: N/A		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1 ²	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE15-10-8316

SAMPLE COMMENTS: NA

LOCATION DESC: 96-5

FIELD SCREENING/MEASUREMENT RESULTS: NA

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/18/10	(Printed Name)	2/18/10
(Signature) Jon R. Marin	9:30	(Signature)	435
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

1 of 1

ARS Sample Delivery Group: ARS1-10-00300

Analysis Description: Gross Alpha/Beta In (Soil, Sludge, Waste, Sediment (SO))

Analyte Test Method: GPC-A-003

Request or PO Number: N/A

Date Recalculated: 2/19/2010

Report Date: 02/19/10 18:26

1 of 1

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- %	MDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00300-001	RE15-10-8316	GROSS ALPHA	12.624	6.050	14.476	4.464	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-001	RE15-10-8316	GROSS BETA	39.246	6.541	8.157	3.539		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-002	RE15-10-8317	GROSS ALPHA	19.261	7.686	16.572	5.314		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-002	RE15-10-8317	GROSS BETA	39.859	6.798	9.279	4.081		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-003	RE15-10-8318	GROSS ALPHA	9.637	5.628	15.661	5.050	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-003	RE15-10-8318	GROSS BETA	35.290	6.053	7.870	3.391		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-004	RE15-10-8319	GROSS ALPHA	9.938	5.709	15.732	5.045	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-004	RE15-10-8319	GROSS BETA	41.845	6.850	8.084	3.491		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-005	RE15-10-8326	GROSS ALPHA	2.866	4.141	15.430	5.028	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-005	RE15-10-8326	GROSS BETA	41.148	6.649	7.536	3.227		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-006	RE15-10-8387	GROSS ALPHA	8.149	5.279	15.319	4.839	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-006	RE15-10-8387	GROSS BETA	36.744	6.233	8.022	3.465		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-007	RE15-10-8386	GROSS ALPHA	4.752	4.702	16.405	5.435	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-007	RE15-10-8386	GROSS BETA	28.418	5.208	7.815	3.373		PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-008	WST15-10-1162	GROSS ALPHA	3.243	3.902	14.353	4.616	U	PC/g	2/19/2010	CR	N/A	SO	
ARS1-10-00300-008	WST15-10-1162	GROSS BETA	30.291	5.410	7.745	3.338		PC/g	2/19/2010	CR	N/A	SO	
NOTES:													

Project Manager Review

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DATA VALIDATION COVER SHEET

5114-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1982 VALIDATION DATE: 04/06/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Ellen McEntee 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 | PESTICIDES/POLYCHLORINATED BIPHENYLS |
- ☒ OTHER (DESCRIBE): VOCs

Section II. Completeness Check

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

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


1. In the FTB, sample RE15-10-8335, which was associated with all samples, methylene chloride was detected. The methylene chloride results for samples -8318, -8319, and -8326 were detects $\leq 10X$ the blank concentration and, thus were qualified U,V4d. All other associated sample results were NDs and, thus, were not qualified.
2. The CCV %Ds were $>20\%$ for dichlorodifluoromethane and 2-hexanone. The associated sample results were NDs and, thus, were qualified UJ,V7c.
3. It should be noted that the 2-hexanone results exceeded the calibration range in the ICV, CCV, LCS, and MS/MSD. No sample data were qualified as a result.

Reviewed by: Monica Dymerski Level I Date: 04/06/10


VALIDATOR'S SIGNATURE: *John McHester* DATE: 04/06/10

Form 5114-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, V9	J-, V9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, V9a	J-, V9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The instrument performance sample did not pass method acceptance criteria.	R, V16	R, V16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Samples were analyzed outside specific method tune time criteria.	N/A	J, V16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, V16c	R, V16c
<input 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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤5X (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, V4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X (10X for common laboratory contaminants).	N/A	J, V4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. The sample result is ≤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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				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: 10-1982
 Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 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	1.04	ug/kg	0.354	1.04	UJ,V7c
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04	
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04	
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04	
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04	
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04	
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21	
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21	
75-09-2	Methylene chloride	U	5.21	ug/kg	2.08	5.21	
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21	
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04	
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21	
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04	
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04	
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04	
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04	
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04	
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04	
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04	
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04	
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04	
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04	
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21	
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04	
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04	
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04	
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04	
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04	
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04	
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04	
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791004	Date Received: 02/23/2010 08:50	%Moisture: 4
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8316	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 02:54	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:30	Allquot: 5 g	Final Volume: 5 mL
Data File: 7b135.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	7.18	ug/kg		J
	Unknown Siloxane	21.55	8.71	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 2

SDG Number: 10-1982
 Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

Client ID: RE15-10-8317
 Batch ID: 959504
 Run Date: 03/02/2010 01:46
 Prep Date: 03/01/2010 15:22
 Data File: 7b133.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07	UJ,V7c
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07	
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07	
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07	
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07	
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07	
67-64-1	Acetone	U	5.34	ug/kg	1.77	5.34	
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07	
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34	
75-09-2	Methylene chloride	U	5.34	ug/kg	2.14	5.34	
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34	
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07	
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07	
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34	
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07	
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07	
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07	
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07	
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07	
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07	
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07	
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07	
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07	
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07	
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07	
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07	
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07	
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34	
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07	
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07	
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07	
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07	
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07	
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07	
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07	
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07	
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791002	Date Received: 02/23/2010 08:50	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8317	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 01:46	Analyst: AX01	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:22	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b133.d	Column: DB-624	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.14	ug/kg	0.320	2.14
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8318
 Batch ID: 959504
 Run Date: 03/02/2010 04:06
 Prep Date: 03/01/2010 15:34
 Data File: 7b137.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.05	ug/kg	0.356	1.05	UJ,V7c
74-87-3	Chloromethane	U	1.05	ug/kg	0.314	1.05	
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.314	1.05	
74-83-9	Bromomethane	U	1.05	ug/kg	0.314	1.05	
75-00-3	Chloroethane	U	1.05	ug/kg	0.314	1.05	
75-69-4	Trichlorofluoromethane	U	1.05	ug/kg	0.314	1.05	
67-64-1	Acetone	U	5.24	ug/kg	1.74	5.24	
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.314	1.05	
74-88-4	Iodomethane	U	5.24	ug/kg	1.68	5.24	
75-09-2	Methylene chloride	J	2.29	ug/kg	2.10	5.24	U,V4d
75-15-0	Carbon disulfide	U	5.24	ug/kg	1.31	5.24	
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05	
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.314	1.05	
78-93-3	2-Butanone	U	5.24	ug/kg	1.57	5.24	
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05	
594-20-7	2,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05	
67-66-3	Chloroform	U	1.05	ug/kg	0.314	1.05	
74-97-5	Bromochloromethane	U	1.05	ug/kg	0.346	1.05	
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.314	1.05	
563-58-6	1,1-Dichloropropene	U	1.05	ug/kg	0.314	1.05	
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.314	1.05	
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.314	1.05	
71-43-2	Benzene	U	1.05	ug/kg	0.314	1.05	
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.346	1.05	
78-87-5	1,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05	
75-27-4	Bromodichloromethane	U	1.05	ug/kg	0.314	1.05	
74-95-3	Dibromomethane	U	1.05	ug/kg	0.314	1.05	
108-10-1	4-Methyl-2-pentanone	U	5.24	ug/kg	1.31	5.24	
10061-01-5	cis-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05	
108-88-3	Toluene	U	1.05	ug/kg	0.314	1.05	
10061-02-6	trans-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05	
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.314	1.05	
591-78-6	2-Hexanone	U	5.24	ug/kg	1.57	5.24	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.05	ug/kg	0.314	1.05	
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.314	1.05	
124-48-1	Dibromochloromethane	U	1.05	ug/kg	0.314	1.05	
106-93-4	1,2-Dibromoethane	U	1.05	ug/kg	0.314	1.05	
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.314	1.05	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4.5
 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	1.05	ug/kg	0.314	1.05
179601-23-1	m,p-Xylenes	U	2.10	ug/kg	0.314	2.10
95-47-6	o-Xylene	U	1.05	ug/kg	0.314	1.05
100-42-5	Styrene	U	1.05	ug/kg	0.314	1.05
75-25-2	Bromoform	U	1.05	ug/kg	0.314	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
96-18-4	1,2,3-Trichloropropane	U	1.05	ug/kg	0.314	1.05
108-86-1	Bromobenzene	U	1.05	ug/kg	0.314	1.05
103-65-1	n-Propylbenzene	U	1.05	ug/kg	0.314	1.05
95-49-8	2-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-82-8	Isopropylbenzene	U	1.05	ug/kg	0.314	1.05
108-67-8	1,3,5-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
106-43-4	4-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-06-6	tert-Butylbenzene	U	1.05	ug/kg	0.314	1.05
95-63-6	1,2,4-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
135-98-8	sec-Butylbenzene	U	1.05	ug/kg	0.314	1.05
99-87-6	4-Isopropyltoluene	U	1.05	ug/kg	0.314	1.05
541-73-1	1,3-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
106-46-7	1,4-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
104-51-8	n-Butylbenzene	U	1.05	ug/kg	0.314	1.05
96-12-8	1,2-Dibromo-3-chloropropane	U	1.05	ug/kg	0.314	1.05
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.24	ug/kg	1.68	5.24
630-20-6	1,1,1,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
95-50-1	1,2-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05

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: 10-1982
 Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 3.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.352	1.03	UJ,V7c
74-87-3	Chloromethane	U	1.03	ug/kg	0.310	1.03	
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.310	1.03	
74-83-9	Bromomethane	U	1.03	ug/kg	0.310	1.03	
75-00-3	Chloroethane	U	1.03	ug/kg	0.310	1.03	
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.310	1.03	
67-64-1	Acetone	U	5.17	ug/kg	1.72	5.17	
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.310	1.03	
74-88-4	Iodomethane	U	5.17	ug/kg	1.65	5.17	
75-09-2	Methylene chloride	J	2.26	ug/kg	2.07	5.17	U,V4d
75-15-0	Carbon disulfide	U	5.17	ug/kg	1.29	5.17	
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03	
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.310	1.03	
78-93-3	2-Butanone	U	5.17	ug/kg	1.55	5.17	
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03	
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03	
67-66-3	Chloroform	U	1.03	ug/kg	0.310	1.03	
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.341	1.03	
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.310	1.03	
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.310	1.03	
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.310	1.03	
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.310	1.03	
71-43-2	Benzene	U	1.03	ug/kg	0.310	1.03	
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.341	1.03	
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03	
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.310	1.03	
74-95-3	Dibromomethane	U	1.03	ug/kg	0.310	1.03	
108-10-1	4-Methyl-2-pentanone	U	5.17	ug/kg	1.29	5.17	
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03	
108-88-3	Toluene	U	1.03	ug/kg	0.310	1.03	
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03	
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.310	1.03	
591-78-6	2-Hexanone	U	5.17	ug/kg	1.55	5.17	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.310	1.03	
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.310	1.03	
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.310	1.03	
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.310	1.03	
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.310	1.03	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791003	Date Received: 02/23/2010 08:50	%Moisture: 3.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8319	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 02:21	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:28	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b134.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.310	1.03
179601-23-1	m,p-Xylenes	U	2.07	ug/kg	0.310	2.07
95-47-6	o-Xylene	U	1.03	ug/kg	0.310	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.310	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.310	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.310	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.310	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.310	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.310	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.310	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.310	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.310	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.310	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.310	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.17	ug/kg	1.65	5.17
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	11	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791005	Date Received: 02/23/2010 08:50	%Moisture: 4
Client ID: RE15-10-8326	Client: LANL010	Project: LANL01004
Batch ID: 959504	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/02/2010 03:30	Inst: VOA7.I	Dilution: 1
Prep Date: 03/01/2010 15:32	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b136.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	1.04	ug/kg	0.354	1.04	UJ,V7c
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04	
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04	
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04	
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04	
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04	
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21	
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21	
75-09-2	Methylene chloride	J	2.27	ug/kg	2.08	5.21	U,V4d
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21	
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04	
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21	
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04	
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04	
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04	
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04	
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04	
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04	
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04	
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04	
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04	
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04	
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04	
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21	
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04	
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04	
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04	
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04	
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21	UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04	
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04	
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04	
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04	
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04	

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	6.84	ug/kg		J
	Unknown Siloxane	21.55	14.7	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: S
Lab Sample ID: 247791001	Date Received: 02/23/2010 08:50	
Client ID: RE15-10-8335	Client: LANL010	Project: LANL01004
Batch ID: 959504	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Run Date: 03/02/2010 01:10	Inst: VOA7.I	Dilution: 1
Prep Date: 03/01/2010 15:20	Analyst: AXO1	Purge Vol: 5 mL
Data File: 7b132.d	Aliquot: 5 g	Final Volume: 5 mL
	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00 UJ,V7c
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	U	5.00	ug/kg	1.66	5.00
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	J	2.22	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-Dichloroethylen	U	1.00	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
67-66-3	Chloroform	U	1.00	ug/kg	0.300	1.00
74-97-5	Bromochloromethane	U	1.00	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/kg	0.300	1.00
71-43-2	Benzene	U	1.00	ug/kg	0.300	1.00
79-01-6	Trichloroethylene	U	1.00	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/kg	0.300	1.00
74-95-3	Dibromomethane	U	1.00	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
108-88-3	Toluene	U	1.00	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene	U	1.00	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/kg	0.300	1.00
591-78-6	2-Hexanone	U	5.00	ug/kg	1.50	5.00 UJ,V7c
142-28-9	1,3-Dichloropropane	U	1.00	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene	U	1.00	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane	U	1.00	ug/kg	0.300	1.00
108-90-7	Chlorobenzene	U	1.00	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

Page 2 of 2

SDG Number: 10-1982
 Lab Sample ID: 247791001

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.1
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624


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

Client ID: RE15-10-8335
 Batch ID: 959504
 Run Date: 03/02/2010 01:10
 Prep Date: 03/01/2010 15:20
 Data File: 7b132.d

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

Tentatively Identified Compound Summary

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

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


Section I.		
REQUEST NUMBER: <u>10-1982</u>	VALIDATION DATE: <u>04/06/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Ellen McEntee</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 type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input checked="" type="checkbox"/> OTHER (DESCRIBE): <u>SVOCs</u>		

Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input 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): <ol style="list-style-type: none"> The ICV %Ds were >20% for pyridine and 2-methyl-4,6-dinitrophenol. The CCV %Ds associated with sample RE15-10-8317, were >20% for bis(2-chloroisopropyl)ether, benzyl alcohol, hexachlorocyclopentadiene, and 2-methyl-4,6-dinitrophenol. The CCV %Ds associated with samples -8316, -8318, -8319, and -8326 were >20% for bis(2-chloroisopropyl)ether, benzyl alcohol, hexachlorocyclopentadiene, 2-nitroaniline, 3-nitroaniline, 4-nitrophenol, 4-nitroaniline, and dibenzo(a,h)anthracene. The associated sample results were NDs and, thus, were qualified UJ,SV7c. The MS %R for benzyl alcohol and the MSD %R for 4-nitrophenol were < the laboratory LAL. Since MS/MSD analyses are not required, no sample results were qualified. 							
Reviewed by: <u>Monica Dymerski</u> Level <u>I</u> Date: <u>04/06/10</u>							
VALIDATOR'S SIGNATURE: <u><i>Ellen McEntee</i></u>				DATE: <u>04/06/10</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				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. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, SV7f	R, SV7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, SV4	J, V4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X (10X for common laboratory contaminants).	N/A	J, SV4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, SV4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV4e	R, SV4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The IS retention time has shifted by more than 30 seconds.	UJ, SV0	J, SV0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, SV0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV0b	R, SV0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The quantitating IS area count is $<10\%$ of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow method-specific windows.	R, SV1a	J, SV1a

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

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

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

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

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8316
Batch ID: 957838
Run Date: 03/03/2010 20:09
Prep Date: 02/25/2010 21:57
Data File: s8c0321.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.3	347
108-95-2	Phenol	U	347	ug/kg	69.3	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.3	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.3	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.3	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.3	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347 UJ,SV7c
87-86-5	Pentachlorophenol	U	347	ug/kg	86.6	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.3	347 UJ,SV7c
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.3	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.3	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.3	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.3	347 UJ,SV7c
95-48-7	o-Cresol	U	347	ug/kg	69.3	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.3	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.3	347
78-59-1	Isophorone	U	347	ug/kg	69.3	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.3	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.3	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.3	347
65-85-0	Benzoic acid	U	693	ug/kg	173	693
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.3	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.3	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.93	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.3	347 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.3	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.3	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.3	347 UJ,SV7c
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	347	ug/kg	69.3	347 UJ,SV7c

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8316
Batch ID: 957838
Run Date: 03/03/2010 20:09
Prep Date: 02/25/2010 21:57
Data File: s8c0321.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	347	ug/kg	69.3	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	693	ug/kg	132	693
132-64-9	Dibenzofuran	U	347	ug/kg	69.3	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.3	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.3	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.3	347 UJ,SV7c
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.3	347
122-66-7	Azobenzene	U	347	ug/kg	69.3	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.3	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.3	347
85-01-8	Phenanthrene	U	34.7	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.93	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.3	347
206-44-0	Fluoranthene	U	34.7	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.3	347
56-55-3	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.3	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.3	347
205-99-2	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.3	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	1.79	139	ug/kg		J
	Unknown Aldol Condensate	2.97	273	ug/kg		JA

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791002

Client ID: RE15-10-8317
Batch ID: 957838
Run Date: 03/02/2010 18:36
Prep Date: 02/25/2010 21:57
Data File: s8c0220.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.05 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.8	355
129-00-0	Pyrene	U	35.5	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355 UJ,SV7c
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355 UJ,SV7c
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachloroethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	355	ug/kg	71.1	355

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

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.05 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	355	ug/kg	71.1	355
208-96-8	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
51-28-5	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
132-64-9	2,4-Dinitrophenol	U	711	ug/kg	135	711
84-66-2	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355 UJ,SV7c
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355
122-39-4	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
101-55-3	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	U	35.5	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene	U	35.5	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	U	35.5	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	U	35.5	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	U	35.5	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	U	35.5	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	3.03	254	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Allquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 957838
Run Date: 03/03/2010 21:08
Prep Date: 02/25/2010 21:57
Data File: s8c0323.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	349	ug/kg	69.7	349
108-95-2	Phenol	U	349	ug/kg	69.7	349
95-57-8	2-Chlorophenol	U	349	ug/kg	69.7	349
106-46-7	1,4-Dichlorobenzene	U	349	ug/kg	69.7	349
621-64-7	N-Nitrosodipropylamine	U	349	ug/kg	69.7	349
59-50-7	4-Chloro-3-methylphenol	U	349	ug/kg	69.7	349
83-32-9	Acenaphthene	U	34.9	ug/kg	11.5	34.9
121-14-2	2,4-Dinitrotoluene	U	349	ug/kg	34.9	349
100-02-7	4-Nitrophenol	U	349	ug/kg	115	349 UJ,SV7c
87-86-5	Pentachlorophenol	U	349	ug/kg	87.2	349
129-00-0	Pyrene	U	34.9	ug/kg	10.5	34.9
110-86-1	Pyridine	U	349	ug/kg	69.7	349 UJ,SV7c
62-53-3	Aniline	U	349	ug/kg	105	349
111-44-4	bis(2-Chloroethyl) ether	U	349	ug/kg	69.7	349
541-73-1	1,3-Dichlorobenzene	U	349	ug/kg	69.7	349
100-51-6	Benzyl alcohol	U	349	ug/kg	105	349 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	349	ug/kg	69.7	349
108-60-1	bis(2-Chloroisopropyl)ether	U	349	ug/kg	69.7	349 UJ,SV7c
95-48-7	o-Cresol	U	349	ug/kg	69.7	349
65794-96-9	m,p-Cresols	U	349	ug/kg	105	349
67-72-1	Hexachloroethane	U	349	ug/kg	69.7	349
98-95-3	Nitrobenzene	U	349	ug/kg	69.7	349
78-59-1	Isophorone	U	349	ug/kg	69.7	349
88-75-5	2-Nitrophenol	U	349	ug/kg	69.7	349
105-67-9	2,4-Dimethylphenol	U	349	ug/kg	122	349
111-91-1	bis(2-Chloroethoxy)methane	U	349	ug/kg	69.7	349
120-83-2	2,4-Dichlorophenol	U	349	ug/kg	69.7	349
65-85-0	Benzoic acid	U	697	ug/kg	174	697
91-20-3	Naphthalene	U	34.9	ug/kg	10.5	34.9
106-47-8	4-Chloroaniline	U	349	ug/kg	69.7	349
87-68-3	Hexachlorobutadiene	U	349	ug/kg	69.7	349
91-57-6	2-Methylnaphthalene	U	34.9	ug/kg	6.97	34.9
77-47-4	Hexachlorocyclopentadiene	U	349	ug/kg	69.7	349 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	349	ug/kg	69.7	349
95-95-4	2,4,5-Trichlorophenol	U	349	ug/kg	69.7	349
91-58-7	2-Chloronaphthalene	U	34.9	ug/kg	11.5	34.9
88-74-4	2-Nitroaniline	U	349	ug/kg	69.7	349 UJ,SV7c
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	349	ug/kg	69.7	349 UJ,SV7c

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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791006	Date Received: 02/23/2010 08:50	%Moisture: 4.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8318	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.1	Dilution: 1
Run Date: 03/03/2010 21:08	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.04 g	Final Volume: 1 mL
Data File: s8c0323.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	349	ug/kg	69.7	349
606-20-2	2,6-Dinitrotoluene	U	349	ug/kg	34.9	349
208-96-8	Acenaphthylene	U	34.9	ug/kg	10.5	34.9
51-28-5	2,4-Dinitrophenol	U	697	ug/kg	133	697
132-64-9	Dibenzofuran	U	349	ug/kg	69.7	349
84-66-2	Diethylphthalate	U	349	ug/kg	69.7	349
86-73-7	Fluorene	U	34.9	ug/kg	10.5	34.9
7005-72-3	4-Chlorophenylphenylether	U	349	ug/kg	69.7	349
534-52-1	2-Methyl-4,6-dinitrophenol	U	349	ug/kg	69.7	349 UJ,SV7c
100-01-6	4-Nitroaniline	U	349	ug/kg	105	349 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	349	ug/kg	69.7	349
122-66-7	Azobenzene	U	349	ug/kg	69.7	349
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	349	ug/kg	69.7	349
118-74-1	Hexachlorobenzene	U	349	ug/kg	69.7	349
85-01-8	Phenanthrene	U	34.9	ug/kg	10.5	34.9
120-12-7	Anthracene	U	34.9	ug/kg	6.97	34.9
84-74-2	Di-n-butylphthalate	U	349	ug/kg	69.7	349
206-44-0	Fluoranthene	U	34.9	ug/kg	10.5	34.9
85-68-7	Butylbenzylphthalate	U	349	ug/kg	69.7	349
56-55-3	Benzo(a)anthracene	U	34.9	ug/kg	10.5	34.9
91-94-1	3,3'-Dichlorobenzidine	U	349	ug/kg	105	349
218-01-9	Chrysene	U	34.9	ug/kg	10.5	34.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	349	ug/kg	69.7	349
117-84-0	Di-n-octylphthalate	U	349	ug/kg	69.7	349
205-99-2	Benzo(b)fluoranthene	U	34.9	ug/kg	10.5	34.9
207-08-9	Benzo(k)fluoranthene	U	34.9	ug/kg	10.5	34.9
50-32-8	Benzo(a)pyrene	U	34.9	ug/kg	10.5	34.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.9	ug/kg	10.5	34.9
53-70-3	Dibenzo(a,h)anthracene	U	34.9	ug/kg	10.5	34.9 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	34.9	ug/kg	10.5	34.9
120-82-1	1,2,4-Trichlorobenzene	U	349	ug/kg	69.7	349

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	190	ug/kg		JA

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	344	ug/kg	68.8	344
108-95-2	Phenol	U	344	ug/kg	68.8	344
95-57-8	2-Chlorophenol	U	344	ug/kg	68.8	344
106-46-7	1,4-Dichlorobenzene	U	344	ug/kg	68.8	344
621-64-7	N-Nitrosodipropylamine	U	344	ug/kg	68.8	344
59-50-7	4-Chloro-3-methylphenol	U	344	ug/kg	68.8	344
83-32-9	Acenaphthene	U	34.4	ug/kg	11.3	34.4
121-14-2	2,4-Dinitrotoluene	U	344	ug/kg	34.4	344
100-02-7	4-Nitrophenol	U	344	ug/kg	113	344 UJ,SV7c
87-86-5	Pentachlorophenol	U	344	ug/kg	86.0	344
129-00-0	Pyrene	U	34.4	ug/kg	10.3	34.4
110-86-1	Pyridine	U	344	ug/kg	68.8	344 UJ,SV7c
62-53-3	Aniline	U	344	ug/kg	103	344
111-44-4	bis(2-Chloroethyl) ether	U	344	ug/kg	68.8	344
541-73-1	1,3-Dichlorobenzene	U	344	ug/kg	68.8	344
100-51-6	Benzyl alcohol	U	344	ug/kg	103	344 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	344	ug/kg	68.8	344
108-60-1	bis(2-Chloroisopropyl) ether	U	344	ug/kg	68.8	344 UJ,SV7c
95-48-7	o-Cresol	U	344	ug/kg	68.8	344
65794-96-9	m,p-Cresols	U	344	ug/kg	103	344
67-72-1	Hexachloroethane	U	344	ug/kg	68.8	344
98-95-3	Nitrobenzene	U	344	ug/kg	68.8	344
78-59-1	Isophorone	U	344	ug/kg	68.8	344
88-75-5	2-Nitrophenol	U	344	ug/kg	68.8	344
105-67-9	2,4-Dimethylphenol	U	344	ug/kg	120	344
111-91-1	bis(2-Chloroethoxy)methane	U	344	ug/kg	68.8	344
120-83-2	2,4-Dichlorophenol	U	344	ug/kg	68.8	344
65-85-0	Benzoic acid	U	688	ug/kg	172	688
91-20-3	Naphthalene	U	34.4	ug/kg	10.3	34.4
106-47-8	4-Chloroaniline	U	344	ug/kg	68.8	344
87-68-3	Hexachlorobutadiene	U	344	ug/kg	68.8	344
91-57-6	2-Methylnaphthalene	U	34.4	ug/kg	6.88	34.4
77-47-4	Hexachlorocyclopentadiene	U	344	ug/kg	68.8	344 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	344	ug/kg	68.8	344
95-95-4	2,4,5-Trichlorophenol	U	344	ug/kg	68.8	344
91-58-7	2-Chloronaphthalene	U	34.4	ug/kg	11.3	34.4
88-74-4	2-Nitroaniline	U	344	ug/kg	68.8	344 UJ,SV7c
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	344	ug/kg	68.8	344 UJ,SV7c

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

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.1
Analyst: NAG1
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 957838
Run Date: 03/03/2010 19:39
Prep Date: 02/25/2010 21:57
Data File: s8c0320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	344	ug/kg	68.8	344
606-20-2	2,6-Dinitrotoluene	U	344	ug/kg	34.4	344
208-96-8	Acenaphthylene	U	34.4	ug/kg	10.3	34.4
51-28-5	2,4-Dinitrophenol	U	688	ug/kg	131	688
132-64-9	Dibenzofuran	U	344	ug/kg	68.8	344
84-66-2	Diethylphthalate	U	344	ug/kg	68.8	344
86-73-7	Fluorene	U	34.4	ug/kg	10.3	34.4
7005-72-3	4-Chlorophenylphenylether	U	344	ug/kg	68.8	344
534-52-1	2-Methyl-4,6-dinitrophenol	U	344	ug/kg	68.8	344 UJ,SV7c
100-01-6	4-Nitroaniline	U	344	ug/kg	103	344 UJ,SV7c
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	344	ug/kg	68.8	344
122-66-7	Azobenzene	U	344	ug/kg	68.8	344
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	344	ug/kg	68.8	344
118-74-1	Hexachlorobenzene	U	344	ug/kg	68.8	344
85-01-8	Phenanthrene	U	34.4	ug/kg	10.3	34.4
120-12-7	Anthracene	U	34.4	ug/kg	6.88	34.4
84-74-2	Di-n-butylphthalate	U	344	ug/kg	68.8	344
206-44-0	Fluoranthene	U	34.4	ug/kg	10.3	34.4
85-68-7	Butylbenzylphthalate	U	344	ug/kg	68.8	344
56-55-3	Benzo(a)anthracene	U	34.4	ug/kg	10.3	34.4
91-94-1	3,3'-Dichlorobenzidine	U	344	ug/kg	103	344
218-01-9	Chrysene	U	34.4	ug/kg	10.3	34.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	344	ug/kg	68.8	344
117-84-0	Di-n-octylphthalate	U	344	ug/kg	68.8	344
205-99-2	Benzo(b)fluoranthene	U	34.4	ug/kg	10.3	34.4
207-08-9	Benzo(k)fluoranthene	U	34.4	ug/kg	10.3	34.4
50-32-8	Benzo(a)pyrene	U	34.4	ug/kg	10.3	34.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.4	ug/kg	10.3	34.4
53-70-3	Dibenzo(a,h)anthracene	U	34.4	ug/kg	10.3	34.4 UJ,SV7c
191-24-2	Benzo(ghi)perylene	U	34.4	ug/kg	10.3	34.4
120-82-1	1,2,4-Trichlorobenzene	U	344	ug/kg	68.8	344

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.97	244	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.4	347
108-95-2	Phenol	U	347	ug/kg	69.4	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.4	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.4	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.4	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.4	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347 UJ,SV7c
87-86-5	Pentachlorophenol	U	347	ug/kg	86.7	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.4	347 UJ,SV7c
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.4	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.4	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.4	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.4	347 UJ,SV7c
95-48-7	o-Cresol	U	347	ug/kg	69.4	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.4	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.4	347
78-59-1	Isophorone	U	347	ug/kg	69.4	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.4	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.4	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.4	347
65-85-0	Benzoic acid	U	694	ug/kg	173	694
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.4	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.4	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.94	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.4	347 UJ,SV7c
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.4	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.4	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.4	347 UJ,SV7c
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	347	ug/kg	69.4	347 UJ,SV7c

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

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	347	ug/kg	69.4	347
208-96-8	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
51-28-5	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
132-64-9	2,4-Dinitrophenol	U	694	ug/kg	132	694
84-66-2	Dibenzofuran	U	347	ug/kg	69.4	347
86-73-7	Diethylphthalate	U	347	ug/kg	69.4	347
7005-72-3	Fluorene	U	34.7	ug/kg	10.4	34.7
534-52-1	4-Chlorophenylphenylether	U	347	ug/kg	69.4	347
100-01-6	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.4	347 UJ,SV7c
	4-Nitroaniline	U	347	ug/kg	104	347 UJ,SV7c
122-39-4	<i>p</i> -Nitroaniline					
122-66-7	Diphenylamine	U	347	ug/kg	69.4	347
	Azobenzene	U	347	ug/kg	69.4	347
101-55-3	1,2-Diphenylhydrazine					
118-74-1	4-Bromophenylphenylether	U	347	ug/kg	69.4	347
85-01-8	Hexachlorobenzene	U	347	ug/kg	69.4	347
120-12-7	Phenanthrene	U	34.7	ug/kg	10.4	34.7
84-74-2	Anthracene	U	34.7	ug/kg	6.94	34.7
206-44-0	Di-n-butylphthalate	U	347	ug/kg	69.4	347
85-68-7	Fluoranthene	U	34.7	ug/kg	10.4	34.7
56-55-3	Butylbenzylphthalate	U	347	ug/kg	69.4	347
91-94-1	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
218-01-9	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
117-81-7	Chrysene	U	34.7	ug/kg	10.4	34.7
117-84-0	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.4	347
205-99-2	Di-n-octylphthalate	U	347	ug/kg	69.4	347
207-08-9	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
193-39-5	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
191-24-2	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7 UJ,SV7c
120-82-1	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
	1,2,4-Trichlorobenzene	U	347	ug/kg	69.4	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown Aldol Condensate	2.97	282	ug/kg		JA

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1982 VALIDATION DATE: 04/06/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Ellen McEntee ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

☐ 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 raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate retention time criteria could not be evaluated. No sample data were qualified as a result.
2. It should be noted that the MS/MSD was performed on a LANL sample from another RN. No sample data was qualified as a result.

Reviewed by: Monica Dymerski Level I Date: 04/06/10


VALIDATOR'S SIGNATURE: Ellen McEntee DATE: 04/06/10

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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of < 0.05 in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

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

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

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

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314018a

Date Analyzed: 14-MAR-10 23:20

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050043.wiff

Date Analyzed: 06-MAR-10 04:07

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314019a

Date Analyzed: 14-MAR-10 23:49

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050044.wiff

Date Analyzed: 06-MAR-10 04:22

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314020a

Date Analyzed: 15-MAR-10 00:19

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050045.wiff

Date Analyzed: 06-MAR-10 04:38

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957192

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314021a

Date Analyzed: 15-MAR-10 00:48

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957192

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050046.wiff

Date Analyzed: 06-MAR-10 04:54

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Moisture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314022a

Date Analyzed: 15-MAR-10 01:17

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Moisture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050047.wiff

Date Analyzed: 06-MAR-10 05:09

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: 10-1982 VALIDATION DATE: 04/06/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Ellen McEntee ORGANIZATION: Analytical Quality Associates

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): PCBs | | | |

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):

None.

Reviewed by: Monica Dymerski Level I Date: 04/06/10

VALIDATOR'S SIGNATURE: Ellen McEntee DATE: 04/06/10

ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST	
5116-2 Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but $\geq 10\%R$. Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, P3c	J, P3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P3d	R, P3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, P12a	J-, P12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P12c	R, P12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30. The second dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P8a	R, P8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

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

5116-2

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

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				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: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 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	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1982
Lab Sample ID: 247791002Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.J
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 6.3
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	3.55	ug/kg	1.18	3.55	1
11104-28-2	Aroclor-1221	U	3.55	ug/kg	1.18	3.55	1
11141-16-5	Aroclor-1232	U	3.55	ug/kg	1.18	3.55	1
53469-21-9	Aroclor-1242	U	3.55	ug/kg	1.18	3.55	1
12672-29-6	Aroclor-1248	U	3.55	ug/kg	1.18	3.55	1
11097-69-1	Aroclor-1254	U	3.55	ug/kg	1.18	3.55	1
11096-82-5	Aroclor-1260	U	3.55	ug/kg	1.18	3.55	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1982
Lab Sample ID: 247791006Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.12 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 4.5
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	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791003

Client ID: RE15-10-8319
Batch ID: 958180
Run Date: 03/01/2010 17:02
Prep Date: 02/26/2010 20:38
Data File: 060f6001.d
060b6001.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Allquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.3
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	3.44	ug/kg	1.15	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.15	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.15	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.15	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.15	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.15	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.15	3.44	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1982
Lab Sample ID: 247791005Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.1
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 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	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1982

LOS ALAMOS

REQUEST NUMBER: 10-1982

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247791

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8335	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8317	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8317	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8319	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8319	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8318	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8318	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8326	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8326	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8318	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8318	1	SEPTUM AMBER GLASS	8260B	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Monday, February 22, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1982

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/22/2010

TURNAROUND/REPORT DUE: 3/24/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	
	SW-846:8260B	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE15-10-8328	R	2/17/2010	
		1	RE15-10-8335	S	2/17/2010	
	SW-846:8270C	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	
	SW-846:8321A_MOD	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	



March 01, 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: 247791
SDG: 10-1982

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 23, 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: 10-1982
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247791
SDG: 10-1982

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Sample Data.....	640
Standards Data.....	666
Quality Control Data.....	750
Miscellaneous Data.....	781

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247791
SDG # : 10-1982**

March 01, 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 23, 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>
247791001	RE15-10-8335
247791002	RE15-10-8317
247791003	RE15-10-8319
247791004	RE15-10-8316
247791005	RE15-10-8326
247791006	RE15-10-8318

Case Narrative

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

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

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


Valerie Davis
Project Manager

List of current GEL Certifications as of 01 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

Monday, February 22, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1982

LOS ALAMOS

REQUEST NUMBER: 10-1982

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/24/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247791

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8335	1	SEPTUM AMBER GLASS	8260B Trip Blank	Ice	S
RE15-10-8317	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8317	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8319	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8319	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8316	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8316	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8326	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8326	1	SEPTUM AMBER GLASS	8260B	Ice	R
RE15-10-8318	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE15-10-8318	1	SEPTUM AMBER GLASS	8260B	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Monday, February 22, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-1982
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/22/2010
TURNAROUND/REPORT DUE: 3/24/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8328	R	2/17/2010	
	SW-846:8260B	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	

REQUEST NUMBER: 10-1982

Monday, February 22, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8260B	1	RE15-10-8326	R	2/17/2010	
		1	RE15-10-8335	S	2/17/2010	
	SW-846:8270C	1	RE15-10-8316	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	
	SW-846:8321A_MOD	1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8317	R	2/17/2010	
		1	RE15-10-8318	R	2/17/2010	
		1	RE15-10-8319	R	2/17/2010	
		1	RE15-10-8326	R	2/17/2010	

Final Page of REQUEST NUMBER 10-1982



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1982		
Received By: Mercedes Simmons			Date Received: 2/23/10		
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 $0 \leq 6$ deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 0, 2-4C 7,11,12C
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	X	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	X	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 1530 0C 7209 7850 1584 3C
 7209 7850 1595 2C 7209 7850 1621 4C
 7209 7850 1632 2C 7209 7850 1600 7C
 7209 7850 1529 2C 7209 7850 1507 11C
 7209 7850 1610 2C 7209 7850 1492 12C
 7209 7850 1518 3C
 7209 7850 1562 3C
 7209 7850 1573 3C

PM (or PMA) review: Initials

Date

2/24/10

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 55.0 LB MAN
CRD: 0014178/CAFE2450

BILL SENDER:

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR1A015AGWMO

0°

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 51.0 LB MAN
CRD: 0014178/CAFE2450

BILL SENDER:

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR2A0515BYDO

2°



2 of 2
NPSH 7209 7850 1530
MatrN 7209 7850 1529 0201

XX CHSA

29407
SC-US
CHS

2 of 2
NPSH 7209 7850 1595
MatrN 7209 7850 1584 0201

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 55.0 LB MAN
CRD: 0014178/CAFE2450

BILL SENDER:

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR3A05529E00

2°

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWT: 52.0 LB MAN
CRD: 0014178/CAFE2450

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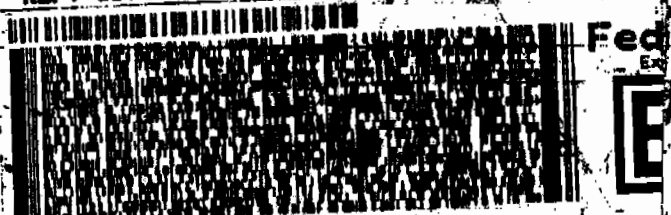
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR1A015AGWMO

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1 of 2
TUE - 23FEB A1
PRIORITY OVERNIGHT
7209 7850 1632
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1 of 2
TUE - 23FEB A1
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CHS

ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
100 BLDG 1237 DPU 83

SHIP DATE: 22FEB10
ACTWT: 52.8 LB MAN
CNO: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 68010AMR3A05529E00

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MASTER NM

TUE - 23FEB A1
PRIORITY OVERNIGHT

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

ACTWT: 52.8 LB MAN
CNO: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 68010AMR3A0223KY10

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TUE - 23FEB A1
PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
100 BLDG 1237 DPU 83

SHIP DATE: 22FEB10
ACTWT: 52.8 LB MAN
CNO: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR1A015AGWMD

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

ACTWT: 52.8 LB MAN
CNO: 0014176/CAFE2450

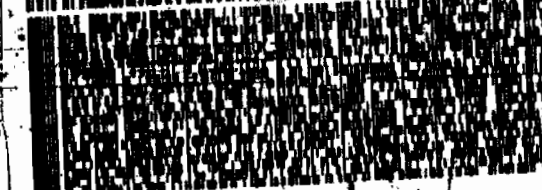
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A0532VA00

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TUE - 23FEB A1
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
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER:

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2450

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GENERAL ENGINEERING LAB
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REF: 55010AMR2A0515BYDO

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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CHARLESTON SC 29407

(843) 556-8171

REF: 55010AMR3A05528E00

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PRIORITY OVERNIGHT

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

CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
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TUE - 23FEB A1
PRIORITY OVERNIGHT

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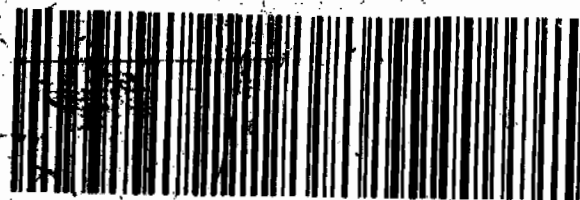


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TUE - 23FEB A1
PRIORITY OVERNIGHT

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29407
SC-CH



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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CHARLESTON SC 29407

(843) 556-8171

REF: 55010AMR1A015AGMY0

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1 of 2
TRKH 7209 7850 1507
NM MASTER NM

TUE - 23FEB A1
PRIORITY OVERNIGHT

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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 10-1982**

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030
Analytical Batch Number: 959504
Prep Batch Number: 959502

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
247791001	RE15-10-8335
247791002	RE15-10-8317
247791003	RE15-10-8319
247791004	RE15-10-8316
247791005	RE15-10-8326
247791006	RE15-10-8318
1202061835	Method Blank (MB)
1202061836	Laboratory Control Sample (LCS)
1202061837	Laboratory Control Sample (LCS)
1202057919	247791002(RE15-10-8317) Post Spike (PS)
1202057920	247791002(RE15-10-8317) 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 247791 002, 003, 004, 005 and 006 in this SDG were analyzed on an "dry weight" basis. Samples 247791 001 in this SDG were analyzed on a "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

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

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 19.1.2.

Calibration Information

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

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

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inverted in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

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

Continuing Calibration Verification Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MB 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 247791002 (RE15-10-8317) was designated for spike analysis in this SDG.

Matrix Spike (PS) Recovery Statement

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

Matrix Spike Duplicate (PSD) Recovery Statement

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

Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

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

Technical Information**Holding Time Specifications**

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

Sample Preservation and Integrity

All samples met the sample preservation and integrity requirements.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-analyses were not required for samples in this SDG.

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

A Data Exception Document was not required 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: 10-1982 GEL Work Order: 247791


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: **Stacy Calloway**

Date: **20 MAR 2010**

Title: **Data Validator**

Roadmap for LANL 10-1982 VOA

This roadmap was analyzed by ale01592 on 03-08-2010, 17:15.

This roadmap was reviewed by kel00587 on 03-08-2010, 17:48.

This roadmap was packaged by lys00434 on 03-19-2010, 11:55.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b132.d	247791001	RE15-10-8335	02-MAR-2010	01:10	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b133.d	247791002	RE15-10-8317	02-MAR-2010	01:46	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b134.d	247791003	RE15-10-8319	02-MAR-2010	02:21	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b135.d	247791004	RE15-10-8316	02-MAR-2010	02:54	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b136.d	247791005	RE15-10-8326	02-MAR-2010	03:30	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b137.d	247791006	RE15-10-8318	02-MAR-2010	04:06	10-1982.sub	1	959504	<input type="checkbox"/>

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b125LL.d	1202061836	LCS	lcs	01-MAR-2010	21:05	all.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b127LL.d	1202061837	SLCS	lcs	01-MAR-2010	22:15	all.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b129LL.d	1202061835	BLANK	mb	01-MAR-2010	23:24	all.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b140.d	1202057919	RE15-10-8317MS	ms	02-MAR-2010	05:51	10-1982.sub	1	959504	<input type="checkbox"/>
<input type="checkbox"/>	N	/chem/VOA7.i/030110v7/7b141.d	1202057920	RE15-10-8317MSD	msd	02-MAR-2010	06:24	10-1982.sub	1	959504	<input type="checkbox"/>

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791004

Client ID: RE15-10-8316
 Batch ID: 959504
 Run Date: 03/02/2010 02:54
 Prep Date: 03/01/2010 15:30
 Data File: 7b135.d

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 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	1.04	ug/kg	0.354	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21
75-09-2	Methylene chloride	U	5.21	ug/kg	2.08	5.21
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8316
 Batch ID: 959504
 Run Date: 03/02/2010 02:54
 Prep Date: 03/01/2010 15:30
 Data File: 7b135.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	7.18	ug/kg		J
	Unknown Siloxane	21.55	8.71	ug/kg		J

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AX01
Aliquot: 5 g
Column: DB-624

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

Client ID: RE15-10-8317
Batch ID: 959504
Run Date: 03/02/2010 01:46
Prep Date: 03/01/2010 15:22
Data File: 7b133.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone	U	5.34	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34
75-09-2	Methylene chloride	U	5.34	ug/kg	2.14	5.34
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

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

Client ID: RE15-10-8317
Batch ID: 959504
Run Date: 03/02/2010 01:46
Prep Date: 03/01/2010 15:22
Data File: 7b133.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.14	ug/kg	0.320	2.14
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	<i>Trichlorotrifluoroethane</i>					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4.5
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8318
 Batch ID: 959504
 Run Date: 03/02/2010 04:06
 Prep Date: 03/01/2010 15:34
 Data File: 7b137.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.05	ug/kg	0.356	1.05
74-87-3	Chloromethane	U	1.05	ug/kg	0.314	1.05
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.314	1.05
74-83-9	Bromomethane	U	1.05	ug/kg	0.314	1.05
75-00-3	Chloroethane	U	1.05	ug/kg	0.314	1.05
75-69-4	Trichlorofluoromethane	U	1.05	ug/kg	0.314	1.05
67-64-1	Acetone	U	5.24	ug/kg	1.74	5.24
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
74-88-4	Iodomethane	U	5.24	ug/kg	1.68	5.24
75-09-2	Methylene chloride	J	2.29	ug/kg	2.10	5.24
75-15-0	Carbon disulfide	U	5.24	ug/kg	1.31	5.24
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.314	1.05
78-93-3	2-Butanone	U	5.24	ug/kg	1.57	5.24
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
594-20-7	2,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05
67-66-3	Chloroform	U	1.05	ug/kg	0.314	1.05
74-97-5	Bromochloromethane	U	1.05	ug/kg	0.346	1.05
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.314	1.05
563-58-6	1,1-Dichloropropene	U	1.05	ug/kg	0.314	1.05
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.314	1.05
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.314	1.05
71-43-2	Benzene	U	1.05	ug/kg	0.314	1.05
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.346	1.05
78-87-5	1,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05
75-27-4	Bromodichloromethane	U	1.05	ug/kg	0.314	1.05
74-95-3	Dibromomethane	U	1.05	ug/kg	0.314	1.05
108-10-1	4-Methyl-2-pentanone	U	5.24	ug/kg	1.31	5.24
10061-01-5	cis-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.314	1.05
10061-02-6	trans-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.314	1.05
591-78-6	2-Hexanone	U	5.24	ug/kg	1.57	5.24
142-28-9	1,3-Dichloropropane	U	1.05	ug/kg	0.314	1.05
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.314	1.05
124-48-1	Dibromochloromethane	U	1.05	ug/kg	0.314	1.05
106-93-4	1,2-Dibromoethane	U	1.05	ug/kg	0.314	1.05
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.314	1.05

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791006

Client ID: RE15-10-8318
Batch ID: 959504
Run Date: 03/02/2010 04:06
Prep Date: 03/01/2010 15:34
Data File: 7b137.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4.5
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	1.05	ug/kg	0.314	1.05
179601-23-1	m,p-Xylenes	U	2.10	ug/kg	0.314	2.10
95-47-6	o-Xylene	U	1.05	ug/kg	0.314	1.05
100-42-5	Styrene	U	1.05	ug/kg	0.314	1.05
75-25-2	Bromoform	U	1.05	ug/kg	0.314	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
96-18-4	1,2,3-Trichloropropane	U	1.05	ug/kg	0.314	1.05
108-86-1	Bromobenzene	U	1.05	ug/kg	0.314	1.05
103-65-1	n-Propylbenzene	U	1.05	ug/kg	0.314	1.05
95-49-8	2-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-82-8	Isopropylbenzene	U	1.05	ug/kg	0.314	1.05
108-67-8	1,3,5-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
106-43-4	4-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-06-6	tert-Butylbenzene	U	1.05	ug/kg	0.314	1.05
95-63-6	1,2,4-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
135-98-8	sec-Butylbenzene	U	1.05	ug/kg	0.314	1.05
99-87-6	4-Isopropyltoluene	U	1.05	ug/kg	0.314	1.05
541-73-1	1,3-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
106-46-7	1,4-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
104-51-8	n-Butylbenzene	U	1.05	ug/kg	0.314	1.05
96-12-8	1,2-Dibromo-3-chloropropane	U	1.05	ug/kg	0.314	1.05
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.24	ug/kg	1.68	5.24
630-20-6	1,1,1,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
95-50-1	1,2-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05

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: 10-1982
 Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 3.3
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8319
 Batch ID: 959504
 Run Date: 03/02/2010 02:21
 Prep Date: 03/01/2010 15:28
 Data File: 7b134.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.352	1.03
74-87-3	Chloromethane	U	1.03	ug/kg	0.310	1.03
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.310	1.03
74-83-9	Bromomethane	U	1.03	ug/kg	0.310	1.03
75-00-3	Chloroethane	U	1.03	ug/kg	0.310	1.03
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.310	1.03
67-64-1	Acetone	U	5.17	ug/kg	1.72	5.17
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
74-88-4	Iodomethane	U	5.17	ug/kg	1.65	5.17
75-09-2	Methylene chloride	J	2.26	ug/kg	2.07	5.17
75-15-0	Carbon disulfide	U	5.17	ug/kg	1.29	5.17
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.310	1.03
78-93-3	2-Butanone	U	5.17	ug/kg	1.55	5.17
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03
67-66-3	Chloroform	U	1.03	ug/kg	0.310	1.03
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.341	1.03
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.310	1.03
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.310	1.03
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.310	1.03
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.310	1.03
71-43-2	Benzene	U	1.03	ug/kg	0.310	1.03
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.341	1.03
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.310	1.03
74-95-3	Dibromomethane	U	1.03	ug/kg	0.310	1.03
108-10-1	4-Methyl-2-pentanone	U	5.17	ug/kg	1.29	5.17
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03
108-88-3	Toluene	U	1.03	ug/kg	0.310	1.03
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.310	1.03
591-78-6	2-Hexanone	U	5.17	ug/kg	1.55	5.17
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.310	1.03
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.310	1.03
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.310	1.03
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.310	1.03
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.310	1.03

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.1
Analyst: AX01
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 959504
Run Date: 03/02/2010 02:21
Prep Date: 03/01/2010 15:28
Data File: 7b134.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.310	1.03
179601-23-1	m,p-Xylenes	U	2.07	ug/kg	0.310	2.07
95-47-6	o-Xylene	U	1.03	ug/kg	0.310	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.310	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.310	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.310	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.310	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.310	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.310	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.310	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.310	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.310	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.310	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.310	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.17	ug/kg	1.65	5.17
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	11	ug/kg		J

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AX01
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8326
Batch ID: 959504
Run Date: 03/02/2010 03:30
Prep Date: 03/01/2010 15:32
Data File: 7b136.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.04	ug/kg	0.354	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21
75-09-2	Methylene chloride	J	2.27	ug/kg	2.08	5.21
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791005

Client ID: RE15-10-8326
Batch ID: 959504
Run Date: 03/02/2010 03:30
Prep Date: 03/01/2010 15:32
Data File: 7b136.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	6.84	ug/kg		J
	Unknown Siloxane	21.55	14.7	ug/kg		J

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791001

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

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	J	2.22	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: 10-1982
 Lab Sample ID: 247791001

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

Client ID: RE15-10-8335
 Batch ID: 959504
 Run Date: 03/02/2010 01:10
 Prep Date: 03/01/2010 15:20
 Data File: 7b132.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: 10-1982

Matrix Type: SOLID

CAP Column (1) : DB-624

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1202061836	LCS for batch 959502	100	93	92
1202061837	LCS for batch 959502	97	94	93
1202061835	MB for batch 959502	104	96	92
247791001	RE15-10-8335	103	100	93
247791002	RE15-10-8317	100	97	88
247791003	RE15-10-8319	96	94	90
247791004	RE15-10-8316	99	97	88
247791005	RE15-10-8326	100	95	84
247791006	RE15-10-8318	100	97	90
1202057919	RE15-10-8317PS	94	90	83
1202057920	RE15-10-8317PSD	97	92	87

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: 10-1982

Sample Type: Post Spike

Client ID: RE15-10-8317PS

Matrix: R

Lab Sample ID: 1202057919

% Moisture: 6.3

Instrument: VOA7.I

Analysis Date: 03/02/2010 05:51

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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 29.8	60	39-148
74-87-3	PS Chloromethane	50.0	0.00	U 35.2	70	42-131
75-01-4	PS Vinyl chloride	50.0	0.00	U 41.0	82	50-127
74-83-9	PS Bromomethane	50.0	0.00	U 38.7	77	26-135
75-00-3	PS Chloroethane	50.0	0.00	U 38.2	76	54-128
75-69-4	PS Trichlorofluoromethane	50.0	0.00	U 35.0	70	55-138
67-64-1	PS Acetone	250	0.00	U 139	55	20-144
75-35-4	PS 1,1-Dichloroethylene	50.0	0.00	U 37.0	74	55-128
74-88-4	PS Iodomethane	250	0.00	U 197	79	47-132
75-09-2	PS Methylene chloride	50.0	0.00	U 37.5	75	56-123
75-15-0	PS Carbon disulfide	250	0.00	U 197	79	53-133
156-60-5	PS trans-1,2-Dichloroethylene	50.0	0.00	U 35.1	70	57-119
75-34-3	PS 1,1-Dichloroethane	50.0	0.00	U 38.4	77	62-125
78-93-3	PS 2-Butanone	250	0.00	U 167	67	30-150
156-59-2	PS cis-1,2-Dichloroethylene	50.0	0.00	U 36.7	73	60-124
594-20-7	PS 2,2-Dichloropropane	50.0	0.00	U 32.6	65	56-129
67-66-3	PS Chloroform	50.0	0.00	U 36.6	73	62-120
74-97-5	PS Bromochloromethane	50.0	0.00	U 40.5	81	51-135
71-55-6	PS 1,1,1-Trichloroethane	50.0	0.00	U 37.4	75	58-129
563-58-6	PS 1,1-Dichloropropene	50.0	0.00	U 37.0	74	59-126
56-23-5	PS Carbon tetrachloride	50.0	0.00	U 34.9	70	55-132
107-06-2	PS 1,2-Dichloroethane	50.0	0.00	U 35.8	72	54-121

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 6

SDG Number: 10-1982

Sample Type: Post Spike

Client ID: RE15-10-8317PS

Matrix: R

Lab Sample ID: 1202057919

%Moisture: 6.3

Instrument: VOA7.I

Analysis Date: 03/02/2010 05:51

Dilution: 1

Analyst: AXO1

Prep Batch ID: 959502

Purge Vol: 5 mL

Batch ID: 959504

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	38.3	77	58-120
79-01-6	PS Trichloroethylene	50.0	0.00 U	39.8	80	54-130
78-87-5	PS 1,2-Dichloropropane	50.0	0.00 U	39.3	79	59-121
75-27-4	PS Bromodichloromethane	50.0	0.00 U	39.2	78	57-130
74-95-3	PS Dibromomethane	50.0	0.00 U	40.9	82	57-124
108-10-1	PS 4-Methyl-2-pentanone	250	0.00 U	187	75	40-137
10061-01-5	PS cis-1,3-Dichloropropylene	50.0	0.00 U	39.2	78	50-131
108-88-3	PS Toluene	50.0	0.00 U	34.7	69	54-119
10061-02-6	PS trans-1,3-Dichloropropylene	50.0	0.00 U	35.0	70	47-133
79-00-5	PS 1,1,2-Trichloroethane	50.0	0.00 U	36.1	72	60-130
591-78-6	PS 2-Hexanone	250	0.00 U	156	62	30-139
142-28-9	PS 1,3-Dichloropropane	50.0	0.00 U	37.9	76	59-125
127-18-4	PS Tetrachloroethylene	50.0	0.00 U	34.1	68	50-126
124-48-1	PS Dibromochloromethane	50.0	0.00 U	37.8	76	54-131
106-93-4	PS 1,2-Dibromoethane	50.0	0.00 U	38.7	77	55-127
108-90-7	PS Chlorobenzene	50.0	0.00 U	35.4	71	50-130
100-41-4	PS Ethylbenzene	50.0	0.00 U	33.7	67	50-121
179601-23-1	PS m,p-Xylenes	100	0.00 U	72.4	72	47-125
95-47-6	PS o-Xylene	50.0	0.00 U	37.4	75	51-127
100-42-5	PS Styrene	50.0	0.00 U	38.4	77	41-136
75-25-2	PS Bromoform	50.0	0.00 U	37.5	75	48-143
79-34-5	PS 1,1,2,2-Tetrachloroethane	50.0	0.00 U	34.7	69	52-129

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 6

SDG Number: 10-1982

Sample Type: Post Spike

Client ID: RE15-10-8317PS

Matrix: R

Lab Sample ID: 1202057919

% Moisture: 6.3

Instrument: VOA7.1

Analysis Date: 03/02/2010 05:51

Dilution: 1

Analyst: AXO1

Prep Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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	35.6	71	56-139
108-86-1	PS Bromobenzene	50.0	0.00 U	34.8	70	54-125
103-65-1	PS n-Propylbenzene	50.0	0.00 U	31.0	62	46-127
95-49-8	PS 2-Chlorotoluene	50.0	0.00 U	32.9	66	47-130
98-82-8	PS Isopropylbenzene	50.0	0.00 U	31.3	63	42-126
108-67-8	PS 1,3,5-Trimethylbenzene	50.0	0.00 U	32.8	66	44-132
106-43-4	PS 4-Chlorotoluene	50.0	0.00 U	31.0	62	46-127
98-06-6	PS tert-Butylbenzene	50.0	0.00 U	33.8	68	48-136
95-63-6	PS 1,2,4-Trimethylbenzene	50.0	0.00 U	32.6	65	42-132
135-98-8	PS sec-Butylbenzene	50.0	0.00 U	32.9	66	47-130
99-87-6	PS 4-Isopropyltoluene	50.0	0.00 U	33.4	67	36-142
541-73-1	PS 1,3-Dichlorobenzene	50.0	0.00 U	33.5	67	41-130
106-46-7	PS 1,4-Dichlorobenzene	50.0	0.00 U	33.7	67	41-126
104-51-8	PS n-Butylbenzene	50.0	0.00 U	31.8	64	37-136
96-12-8	PS 1,2-Dibromo-3-chloropropane	50.0	0.00 U	41.0	82	42-143
630-20-6	PS 1,1,1,2-Tetrachloroethane	50.0	0.00 U	37.8	76	58-127
95-50-1	PS 1,2-Dichlorobenzene	50.0	0.00 U	35.1	70	42-128

Volatile
Quality Control Summary
Spike Recovery Report

Page 4 of 6

SDG Number: 10-1982

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8317PSD

Matrix: R

Lab Sample ID: 1202057920

%Moisture: 6.3

Instrument: VOA7.I

Analysis Date: 03/02/2010 06:24

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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 30.5	61	39-148	2	0-19
74-87-3	PSD Chloromethane	50.0	0.00	U 35.6	71	42-131	1	0-23
75-01-4	PSD Vinyl chloride	50.0	0.00	U 39.0	78	50-127	5	0-23
74-83-9	PSD Bromomethane	50.0	0.00	U 38.6	77	26-135	0	0-22
75-00-3	PSD Chloroethane	50.0	0.00	U 38.1	76	54-128	0	0-25
75-69-4	PSD Trichlorofluoromethane	50.0	0.00	U 35.7	71	55-138	2	0-21
67-64-1	PSD Acetone	250	0.00	U 161	64	20-144	15	0-22
75-35-4	PSD 1,1-Dichloroethylene	50.0	0.00	U 37.7	75	55-128	2	0-20
74-88-4	PSD Iodomethane	250	0.00	U 201	81	47-132	2	0-20
75-09-2	PSD Methylene chloride	50.0	0.00	U 40.3	81	56-123	7	0-20
75-15-0	PSD Carbon disulfide	250	0.00	U 197	79	53-133	0	0-22
156-60-5	PSD trans-1,2-Dichloroethylene	50.0	0.00	U 37.2	74	57-119	6	0-20
75-34-3	PSD 1,1-Dichloroethane	50.0	0.00	U 40.0	80	62-125	4	0-20
78-93-3	PSD 2-Butanone	250	0.00	U 184	74	30-150	10	0-21
156-59-2	PSD cis-1,2-Dichloroethylene	50.0	0.00	U 37.7	75	60-124	3	0-20
594-20-7	PSD 2,2-Dichloropropane	50.0	0.00	U 33.0	66	56-129	1	0-20
67-66-3	PSD Chloroform	50.0	0.00	U 37.7	75	62-120	3	0-25
74-97-5	PSD Bromochloromethane	50.0	0.00	U 42.4	85	51-135	5	0-20
71-55-6	PSD 1,1,1-Trichloroethane	50.0	0.00	U 37.3	75	58-129	0	0-20
563-58-6	PSD 1,1-Dichloropropene	50.0	0.00	U 37.5	75	59-126	1	0-20
56-23-5	PSD Carbon tetrachloride	50.0	0.00	U 36.3	73	55-132	4	0-20
107-06-2	PSD 1,2-Dichloroethane	50.0	0.00	U 39.4	79	54-121	10	0-20

Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8317PSD

Matrix: R

Lab Sample ID: 1202057920

%Moisture: 6.3

Instrument: VOA7.I

Analysis Date: 03/02/2010 06:24

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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 39.1	78	58-120	2	0-20
79-01-6	PSD Trichloroethylene	50.0	0.00	U 39.5	79	54-130	1	0-23
78-87-5	PSD 1,2-Dichloropropane	50.0	0.00	U 41.7	83	59-121	6	0-20
75-27-4	PSD Bromodichloromethane	50.0	0.00	U 40.4	81	57-130	3	0-20
74-95-3	PSD Dibromomethane	50.0	0.00	U 43.9	88	57-124	7	0-20
108-10-1	PSD 4-Methyl-2-pentanone	250	0.00	U 200	80	40-137	7	0-25
10061-01-5	PSD cis-1,3-Dichloropropylene	50.0	0.00	U 41.5	83	50-131	6	0-20
108-88-3	PSD Toluene	50.0	0.00	U 35.5	71	54-119	2	0-23
10061-02-6	PSD trans-1,3-Dichloropropylene	50.0	0.00	U 37.7	75	47-133	7	0-24
79-00-5	PSD 1,1,2-Trichloroethane	50.0	0.00	U 39.3	79	60-130	8	0-20
591-78-6	PSD 2-Hexanone	250	0.00	U 161	65	30-139	4	0-21
142-28-9	PSD 1,3-Dichloropropane	50.0	0.00	U 40.6	81	59-125	7	0-20
127-18-4	PSD Tetrachloroethylene	50.0	0.00	U 33.9	68	50-126	1	0-20
124-48-1	PSD Dibromochloromethane	50.0	0.00	U 39.7	79	54-131	5	0-23
106-93-4	PSD 1,2-Dibromoethane	50.0	0.00	U 40.6	81	55-127	5	0-23
108-90-7	PSD Chlorobenzene	50.0	0.00	U 36.9	74	50-130	4	0-24
100-41-4	PSD Ethylbenzene	50.0	0.00	U 34.2	68	50-121	1	0-24
179601-23-1	PSD m,p-Xylenes	100	0.00	U 73.6	74	47-125	2	0-25
95-47-6	PSD o-Xylene	50.0	0.00	U 38.0	76	51-127	2	0-24
100-42-5	PSD Styrene	50.0	0.00	U 39.3	79	41-136	2	0-24
75-25-2	PSD Bromoform	50.0	0.00	U 41.3	83	48-143	10	0-20
79-34-5	PSD 1,1,2,2-Tetrachloroethane	50.0	0.00	U 38.1	76	52-129	9	0-20

Volatile
Quality Control Summary
Spike Recovery Report

Page 6 of 6

SDG Number: 10-1982

Sample Type: Post Spike Duplicate

Client ID: RE15-10-8317PSD

Matrix: R

Lab Sample ID: 1202057920

%Moisture: 6.3

Instrument: VOA7.I

Analysis Date: 03/02/2010 06:24

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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 38.9	78	56-139	9	0-34
108-86-1	PSD Bromobenzene	50.0	0.00	U 37.2	74	54-125	7	0-22
103-65-1	PSD n-Propylbenzene	50.0	0.00	U 31.8	64	46-127	3	0-25
95-49-8	PSD 2-Chlorotoluene	50.0	0.00	U 34.3	69	47-130	4	0-24
98-82-8	PSD Isopropylbenzene	50.0	0.00	U 32.5	65	42-126	4	0-22
108-67-8	PSD 1,3,5-Trimethylbenzene	50.0	0.00	U 34.6	69	44-132	6	0-25
106-43-4	PSD 4-Chlorotoluene	50.0	0.00	U 32.1	64	46-127	4	0-26
98-06-6	PSD tert-Butylbenzene	50.0	0.00	U 34.6	69	48-136	2	0-24
95-63-6	PSD 1,2,4-Trimethylbenzene	50.0	0.00	U 34.0	68	42-132	4	0-26
135-98-8	PSD sec-Butylbenzene	50.0	0.00	U 33.4	67	47-130	1	0-27
99-87-6	PSD 4-Isopropyltoluene	50.0	0.00	U 34.4	69	36-142	3	0-27
541-73-1	PSD 1,3-Dichlorobenzene	50.0	0.00	U 34.9	70	41-130	4	0-25
106-46-7	PSD 1,4-Dichlorobenzene	50.0	0.00	U 35.6	71	41-126	6	0-25
104-51-8	PSD n-Butylbenzene	50.0	0.00	U 32.6	65	37-136	2	0-29
96-12-8	PSD 1,2-Dibromo-3-chloropropane	50.0	0.00	U 42.8	86	42-143	4	0-21
630-20-6	PSD 1,1,1,2-Tetrachloroethane	50.0	0.00	U 38.7	77	58-127	2	0-20
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.00	U 36.9	74	42-128	5	0-24

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 959502

Matrix: MISC SOLID

Lab Sample ID: 1202061836

Instrument: VOA7.I

Analysis Date: 03/01/2010 21:05

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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	36.9	74	52-151
74-87-3	LCS Chloromethane	50.0	0.0	40.1	80	56-130
75-01-4	LCS Vinyl chloride	50.0	0.0	43.5	87	66-130
74-83-9	LCS Bromomethane	50.0	0.0	46.1	92	70-126
75-00-3	LCS Chloroethane	50.0	0.0	46.8	94	67-129
75-69-4	LCS Trichlorofluoromethane	50.0	0.0	46.3	93	73-143
67-64-1	LCS Acetone	250	0.0	219	88	30-140
75-35-4	LCS 1,1-Dichloroethylene	50.0	0.0	45.9	92	71-129
74-88-4	LCS Iodomethane	250	0.0	238	95	72-125
75-09-2	LCS Methylene chloride	50.0	0.0	47.5	95	64-121
75-15-0	LCS Carbon disulfide	250	0.0	235	94	70-133
156-60-5	LCS trans-1,2-Dichloroethylene	50.0	0.0	45.0	90	73-120
75-34-3	LCS 1,1-Dichloroethane	50.0	0.0	47.8	96	73-120
78-93-3	LCS 2-Butanone	250	0.0	219	87	32-145
156-59-2	LCS cis-1,2-Dichloroethylene	50.0	0.0	45.2	90	74-124
594-20-7	LCS 2,2-Dichloropropane	50.0	0.0	44.8	90	73-134
67-66-3	LCS Chloroform	50.0	0.0	45.5	91	74-120
74-97-5	LCS Bromochloromethane	50.0	0.0	46.7	93	73-122
71-55-6	LCS 1,1,1-Trichloroethane	50.0	0.0	49.4	99	74-132
563-58-6	LCS 1,1-Dichloropropene	50.0	0.0	47.3	95	79-128
56-23-5	LCS Carbon tetrachloride	50.0	0.0	46.3	93	75-135
107-06-2	LCS 1,2-Dichloroethane	50.0	0.0	44.2	88	65-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 2 of 3

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 959502

Matrix: MISC SOLID

Lab Sample ID: 1202061836

Instrument: VOA7.I

Analysis Date: 03/01/2010 21:05

Dilution: 1

Analyst: AXO1

Prep Batch ID: 959502

Purge Vol: 5 mL

Batch ID: 959504

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
71-43-2	LCS Benzene	50.0	0.0	46.0	92	74-120
79-01-6	LCS Trichloroethylene	50.0	0.0	48.4	97	77-124
78-87-5	LCS 1,2-Dichloropropane	50.0	0.0	47.1	94	73-120
75-27-4	LCS Bromodichloromethane	50.0	0.0	48.2	96	75-128
74-95-3	LCS Dibromomethane	50.0	0.0	48.7	97	75-120
108-10-1	LCS 4-Methyl-2-pentanone	250	0.0	212	85	63-133
10061-01-5	LCS cis-1,3-Dichloropropylene	50.0	0.0	49.4	99	78-127
108-88-3	LCS Toluene	50.0	0.0	43.6	87	74-120
10061-02-6	LCS trans-1,3-Dichloropropylene	50.0	0.0	45.4	91	70-125
79-00-5	LCS 1,1,2-Trichloroethane	50.0	0.0	42.8	86	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	44.1	88	73-120
127-18-4	LCS Tetrachloroethylene	50.0	0.0	44.1	88	72-126
124-48-1	LCS Dibromochloromethane	50.0	0.0	45.8	92	74-126
106-93-4	LCS 1,2-Dibromoethane	50.0	0.0	44.8	90	79-120
108-90-7	LCS Chlorobenzene	50.0	0.0	43.6	87	76-120
100-41-4	LCS Ethylbenzene	50.0	0.0	41.1	82	74-120
179601-23-1	LCS m,p-Xylenes	100	0.0	88.9	89	76-120
95-47-6	LCS o-Xylene	50.0	0.0	45.5	91	76-122
100-42-5	LCS Styrene	50.0	0.0	45.7	91	75-125
75-25-2	LCS Bromoform	50.0	0.0	45.9	92	68-135
79-34-5	LCS 1,1,2,2-Tetrachloroethane	50.0	0.0	40.9	82	72-122

Volatile
Quality Control Summary
Spike Recovery Report

Page 3 of 3

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 959502

Matrix: MISC SOLID

Lab Sample ID: 1202061836

Instrument: VOA7.I

Analysis Date: 03/01/2010 21:05

Dilution: 1

Analyst: AXO1

Prep Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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	41.3	83	72-129
108-86-1	LCS Bromobenzene	50.0	0.0	43.3	87	74-120
103-65-1	LCS n-Propylbenzene	50.0	0.0	39.4	79	70-120
95-49-8	LCS 2-Chlorotoluene	50.0	0.0	40.6	81	70-120
98-82-8	LCS Isopropylbenzene	50.0	0.0	40.5	81	60-121
108-67-8	LCS 1,3,5-Trimethylbenzene	50.0	0.0	42.6	85	71-121
106-43-4	LCS 4-Chlorotoluene	50.0	0.0	40.7	81	71-120
98-06-6	LCS tert-Butylbenzene	50.0	0.0	42.8	86	75-123
95-63-6	LCS 1,2,4-Trimethylbenzene	50.0	0.0	41.7	83	73-120
135-98-8	LCS sec-Butylbenzene	50.0	0.0	41.9	84	74-123
99-87-6	LCS 4-Isopropyltoluene	50.0	0.0	43.1	86	76-127
541-73-1	LCS 1,3-Dichlorobenzene	50.0	0.0	41.7	83	75-120
106-46-7	LCS 1,4-Dichlorobenzene	50.0	0.0	42.9	86	73-120
104-51-8	LCS n-Butylbenzene	50.0	0.0	42.5	85	73-128
96-12-8	LCS 1,2-Dibromo-3-chloropropane	50.0	0.0	44.7	89	69-136
630-20-6	LCS 1,1,1,2-Tetrachloroethane	50.0	0.0	46.8	94	75-124
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	42.8	86	75-120

Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 1

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 959502

Matrix: MISC SOLID

Lab Sample ID:1202061837

Instrument: VOA7.I

Analysis Date: 03/01/2010 22:15

Dilution: 1

Analyst: AXO1

Pren Batch II 959502

Purge Vol: 5 mL

Batch ID: 959504

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	226	90	67-140

Method Blank Summary

Page 1 of 1

SDG Number:	10-1982	Client:	LANL010	Matrix:	MISC SOLID
Client ID:	MB for batch 959502	Instrument ID:	VOA7.I	Data File:	7b129LL.d
Lab Sample ID:	1202061835	Prep Date:	03/01/2010 15:00	Analyzed:	03/01/10 23:24
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 959502	1202061836	7b125LL.d	03/01/10	2105
02 LCS for batch 959502	1202061837	7b127LL.d	03/01/10	2215
03 RE15-10-8335	247791001	7b132.d	03/02/10	0110
04 RE15-10-8317	247791002	7b133.d	03/02/10	0146
05 RE15-10-8319	247791003	7b134.d	03/02/10	0221
06 RE15-10-8316	247791004	7b135.d	03/02/10	0254
07 RE15-10-8326	247791005	7b136.d	03/02/10	0330
08 RE15-10-8318	247791006	7b137.d	03/02/10	0406
09 RE15-10-8317PS	1202057919	7b140.d	03/02/10	0551
10 RE15-10-8317PSD	1202057920	7b141.d	03/02/10	0624

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: VOA7.I

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

Instrument Performance Check

BFB

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: VOA7.I

Injection Date/Time: 01-MAR-10 20:31

Column Description: db624

Lab File ID /030110v7/7b124BFB.d

m/e	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100
50	15.0 - 40.0% of mass 95	28.7
75	30.0 - 60.0% of mass 95	52.3
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5
174	50.0 - 100.0% of mass 95	67.8
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	6.8

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	W7VM100301-06	7b124.d	01-MAR-10 20:31
LCS	1202061836	7b125LL.d	01-MAR-10 21:05
VSTD250S	W7VM100301-08	7b126.d	01-MAR-10 21:40
SLCS	1202061837	7b127LL.d	01-MAR-10 22:15
BLANK	1202061835	7b129LL.d	01-MAR-10 23:24
RE15-10-8335	247791001	7b132.d	02-MAR-10 01:10
RE15-10-8317	247791002	7b133.d	02-MAR-10 01:46
RE15-10-8319	247791003	7b134.d	02-MAR-10 02:21
RE15-10-8316	247791004	7b135.d	02-MAR-10 02:54
RE15-10-8326	247791005	7b136.d	02-MAR-10 03:30
RE15-10-8318	247791006	7b137.d	02-MAR-10 04:06
RE15-10-8317MS	1202057919	7b140.d	02-MAR-10 05:51
RE15-10-8317MSD	1202057920	7b141.d	02-MAR-10 06:24

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1982

Instrument: VOA7.1

STD Analysis Time: 01-MAR-10 20:31

GC Column: DB-624

Data File: 7b124.d

	Fluorobenzene			Chlorobenzene-d5			1,4-Dichlorobenzene-d4		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 Hour STD	905494		15.3	718701		18.7	360704		21.0
Upper Limit	1810988		15.8	1437402		19.2	721408		21.5
Lower Limit	452747		14.8	359351		18.2	180352		20.5
Sample ID									
BLK01LCS	947726		15.3	755709		18.7	390603		21.0
BLK01SLCS	1068022		15.3	794732		18.7	383391		21.0
BLK01	915717		15.3	692712		18.7	337818		21.0
RE15-10-8335	791180		15.3	589745		18.7	286998		21.0
RE15-10-8317	790572		15.3	592192		18.7	291382		21.0
RE15-10-8319	779149		15.3	596237		18.7	285358		21.0
RE15-10-8316	756179		15.3	568441		18.7	279563		21.0
RE15-10-8326	723133		15.3	553567		18.7	276569		21.0
RE15-10-8318	726525		15.3	548990		18.7	272327		21.0
RE15-10-8317MS	754205		15.3	614099		18.7	330389		21.0
RE15-10-8317MSD	795569		15.3	637285		18.7	334056		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: 10-1982
Lab Sample ID: 247791004

Client ID: RE15-10-8316
Batch ID: 959504
Run Date: 03/02/2010 02:54
Prep Date: 03/01/2010 15:30
Data File: 7b135.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AX01
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 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	1.04	ug/kg	0.354	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21
75-09-2	Methylene chloride	U	5.21	ug/kg	2.08	5.21
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791004

Client ID: RE15-10-8316
Batch ID: 959504
Run Date: 03/02/2010 02:54
Prep Date: 03/01/2010 15:30
Data File: 7b135.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	7.18	ug/kg		J
	Unknown Siloxane	21.55	8.71	ug/kg		J

Data File: /chem/VOA7.i/030110v7/7b135.d
Report Date: 08-Mar-2010 12:56

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GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030110v7/7b135.d
Lab Smp Id: 247791004 Client Smp ID: RE15-10-8316
Inj Date : 02-MAR-2010 02:54
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791004|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	4.01680	% 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	15.317	15.317	(1.000)	756179		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	568441		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	279563		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	324659		49.6936	51.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	894744		48.3619	50.4
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	322965		43.9180	45.8

ION RATIO REPORT

VOA REPORT

Data file: 7b135.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791004

SampleType: SAMPLE

Injection Date: 02-MAR-2010 02:54

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791004|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	10751	17.13	16.94	80-120	100	(T)
43	6320	17.13	16.94	218-278	59	(QT)
100	617235	17.13	16.94	0- 56	5741	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1009	19.81	19.54	80-120	100	(T)
175	17139	19.81	19.54	18- 78	1697	(QT)

89	1,2,3-Trichloropropane			CAS#: 96-18-4		
110	1029	19.68	19.97	80-120	100	(T)
75	5252	19.69	19.97	307-367	510	(QT)
77	339	19.70	19.97	93-153	33	(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/030110v7/7b135.d
Lab Smp Id: 247791004 Client Smp ID: RE15-10-8316
Inj Date : 02-MAR-2010 02:54
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791004|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	4.01680	% 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	2088566	50.000
* 101 1,4-Dichlorobenzene-d4	20.992	1951227	50.000

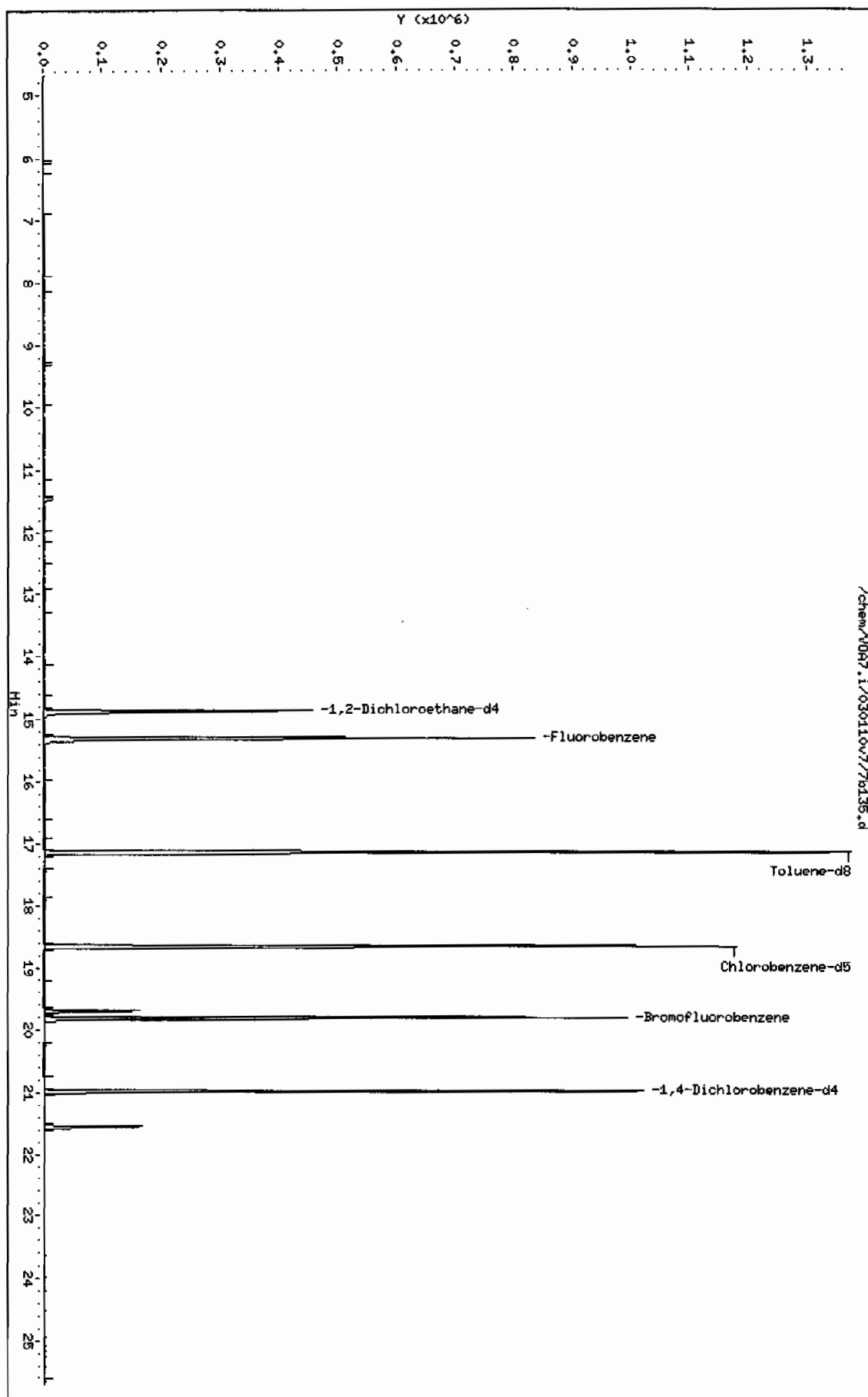
CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
19.692	287737	6.88838408	7.2	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
21.550	326356	8.36285084	8.7	0		0	101

Unknown Siloxane CAS #:

Data File: /chem/V007.1/030110v7/7b135.d
Date: 02-MAR-2010 02:54
Client ID: RE15-10-8316
Sample Info: 124791004195950411V00AF111
Column phase: DB-624

Instrument: V007.1
Operator: RXD1
Column diameter: 0.25



Date : 02-MAR-2010 02:54

Client ID: RE15-10-8316

Instrument: VOA7.i

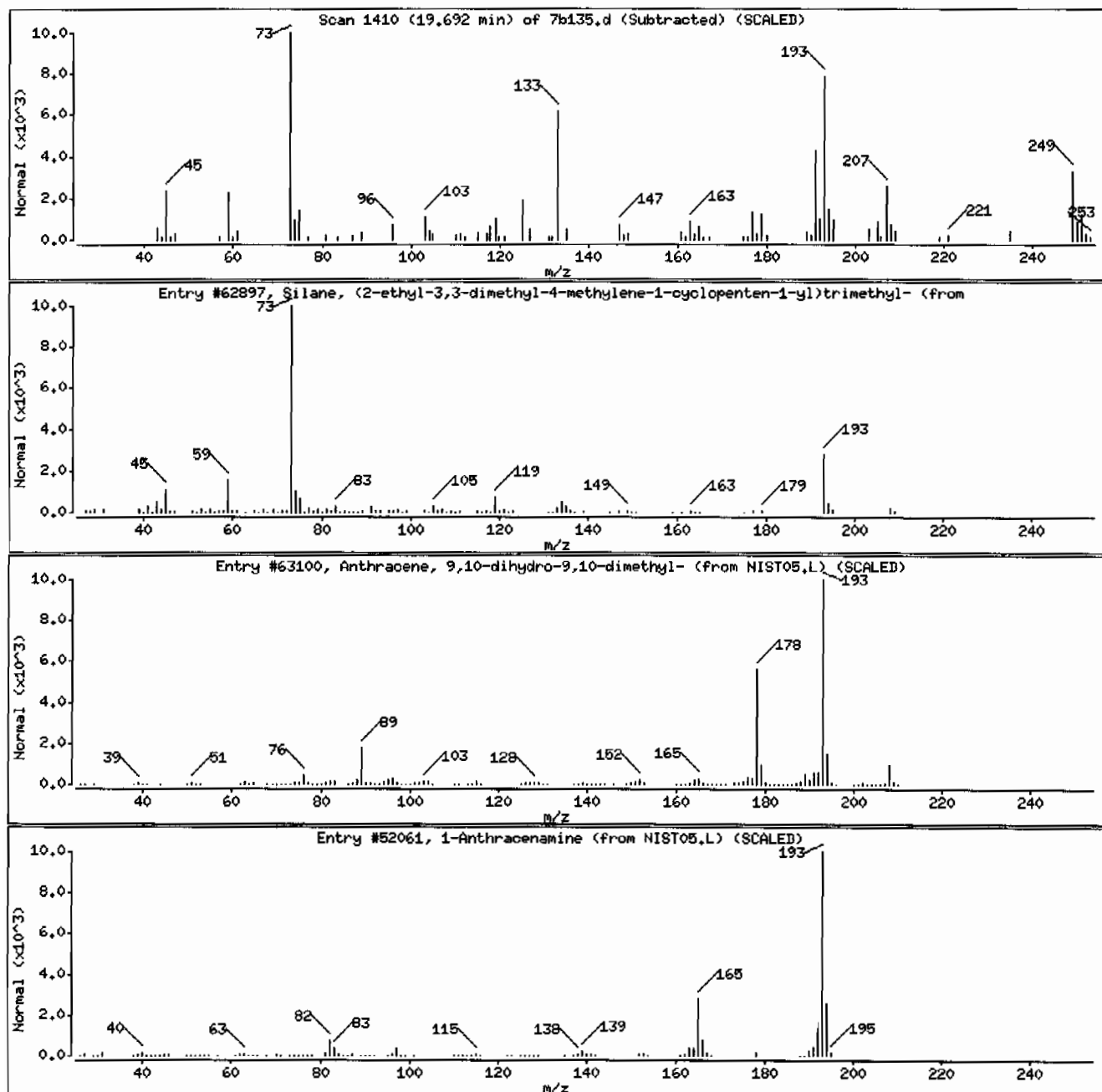
Sample Info: I2477910041959504111VOAF111

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Silane, (2-ethyl-3,3-dimethyl-4-methylen	95798-13-3	NIST05.L	62897	30	C13H24Si	208
Anthracene, 9,10-dihydro-9,10-dimethyl-	22566-43-4	NIST05.L	63100	25	C16H16	208
1-Anthracenamine	610-49-1	NIST05.L	52061	25	C14H11N	193



Date : 02-MAR-2010 02:54

Client ID: RE15-10-8316

Instrument: V0A7.i

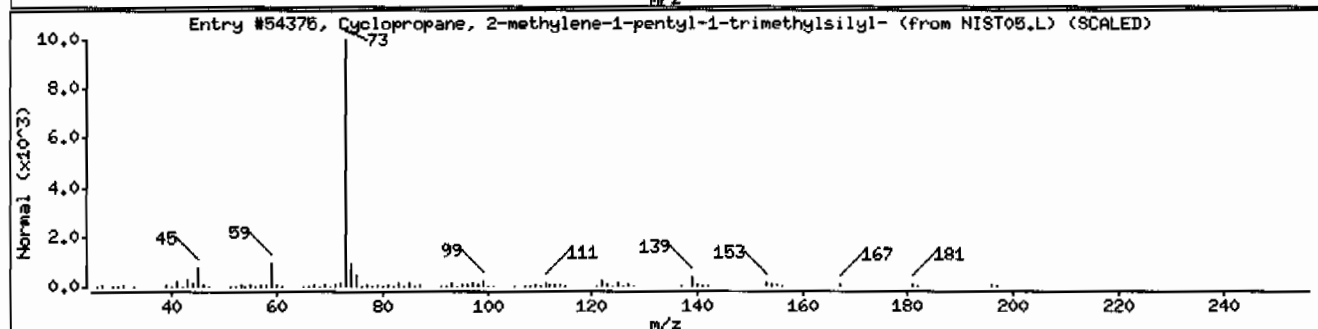
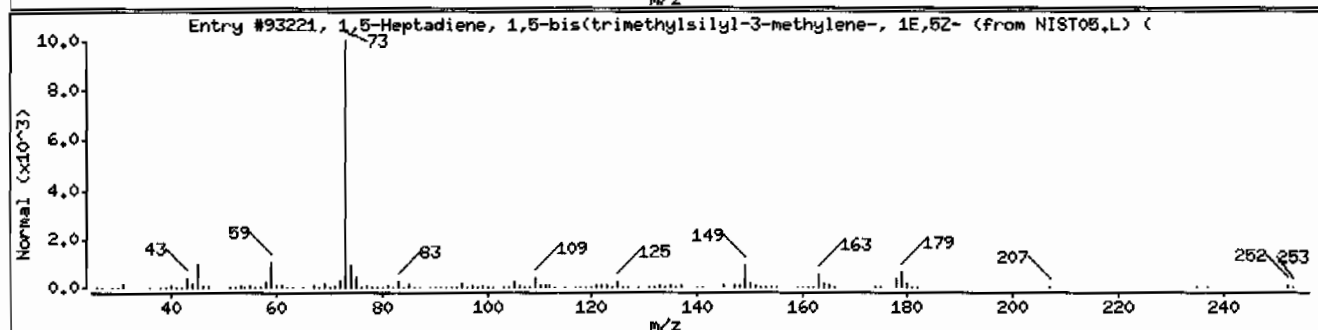
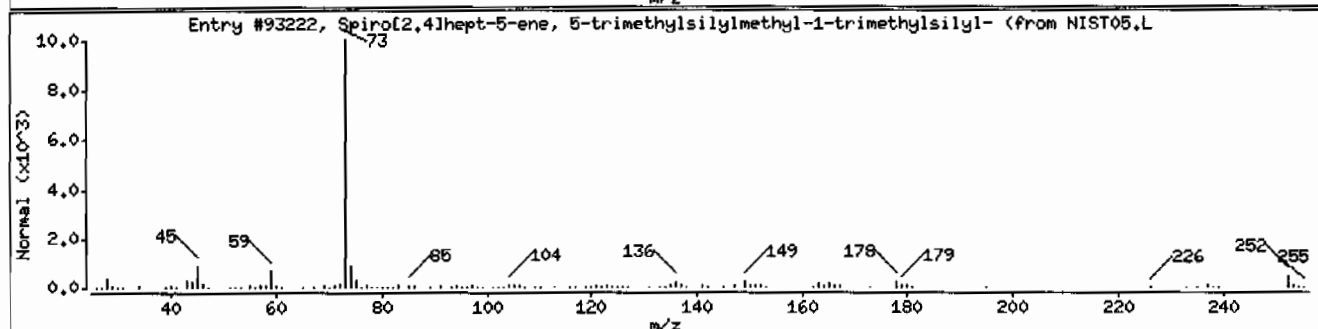
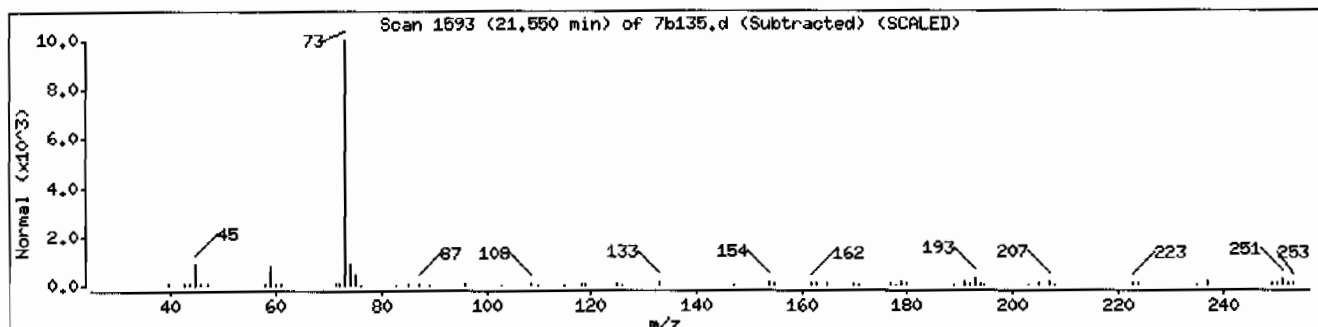
Sample Info: 12477910041959504111V0AF111

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	64	C ₁₄ H ₂₈ Si ₂	252
1,5-Heptadiene, 1,5-bis(trimethylsilyl)-3	1000153-97-1	NIST05.L	93221	50	C ₁₄ H ₂₈ Si ₂	252
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	45	C ₁₂ H ₂₄ Si	196



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

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

Client ID: RE15-10-8317
Batch ID: 959504
Run Date: 03/02/2010 01:46
Prep Date: 03/01/2010 15:22
Data File: 7b133.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.07	ug/kg	0.363	1.07
74-87-3	Chloromethane	U	1.07	ug/kg	0.320	1.07
75-01-4	Vinyl chloride	U	1.07	ug/kg	0.320	1.07
74-83-9	Bromomethane	U	1.07	ug/kg	0.320	1.07
75-00-3	Chloroethane	U	1.07	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane	U	1.07	ug/kg	0.320	1.07
67-64-1	Acetone	U	5.34	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
74-88-4	Iodomethane	U	5.34	ug/kg	1.71	5.34
75-09-2	Methylene chloride	U	5.34	ug/kg	2.14	5.34
75-15-0	Carbon disulfide	U	5.34	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane	U	1.07	ug/kg	0.320	1.07
78-93-3	2-Butanone	U	5.34	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene	U	1.07	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
67-66-3	Chloroform	U	1.07	ug/kg	0.320	1.07
74-97-5	Bromochloromethane	U	1.07	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane	U	1.07	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene	U	1.07	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride	U	1.07	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane	U	1.07	ug/kg	0.320	1.07
71-43-2	Benzene	U	1.07	ug/kg	0.320	1.07
79-01-6	Trichloroethylene	U	1.07	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane	U	1.07	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane	U	1.07	ug/kg	0.320	1.07
74-95-3	Dibromomethane	U	1.07	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone	U	5.34	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
108-88-3	Toluene	U	1.07	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene	U	1.07	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane	U	1.07	ug/kg	0.320	1.07
591-78-6	2-Hexanone	U	5.34	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane	U	1.07	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene	U	1.07	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane	U	1.07	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane	U	1.07	ug/kg	0.320	1.07
108-90-7	Chlorobenzene	U	1.07	ug/kg	0.320	1.07

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

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

Client ID: RE15-10-8317
Batch ID: 959504
Run Date: 03/02/2010 01:46
Prep Date: 03/01/2010 15:22
Data File: 7b133.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.07	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes	U	2.14	ug/kg	0.320	2.14
95-47-6	o-Xylene	U	1.07	ug/kg	0.320	1.07
100-42-5	Styrene	U	1.07	ug/kg	0.320	1.07
75-25-2	Bromoform	U	1.07	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane	U	1.07	ug/kg	0.320	1.07
108-86-1	Bromobenzene	U	1.07	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene	U	1.07	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene	U	1.07	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene	U	1.07	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene	U	1.07	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene	U	1.07	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene	U	1.07	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene	U	1.07	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene	U	1.07	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane	U	1.07	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
630-20-6	1,1,1,2-Tetrachloroethane	U	1.07	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene	U	1.07	ug/kg	0.320	1.07

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
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/030110v7/7b133.d
 Lab Smp Id: 247791002 Client Smp ID: RE15-10-8317
 Inj Date : 02-MAR-2010 01:46
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |247791002|959504|1|VOAF|1|
 Misc Info : LANL 5g N/A
 Comment :
 Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
 Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.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	6.34340	% 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)	790572	50.0000		
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	592192	50.0000		
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	291382	50.0000		
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	340131	49.7969	53.2	
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	932683	48.3907	51.7	
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	336767	43.9374	46.9	

ION RATIO REPORT

VOA REPORT

Data file: 7b133.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791002

SampleType: SAMPLE

Injection Date: 02-MAR-2010 01:46

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791002|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
63	4-Methyl-2-pentanone			CAS#: 108-10-1		
58	11526	17.13	16.94	80-120	100	(T)
43	6053	17.13	16.94	218-278	53	(QT)
100	647978	17.13	16.94	0- 56	5622	(QT)

82	Bromoform			CAS#: 75-25-2		
173	1120	19.81	19.54	80-120	100	(T)
175	17539	19.81	19.54	18- 78	1565	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030110v7/7b133.d
Report Date: 08-Mar-2010 12:57

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030110v7/7b133.d
Lab Smp Id: 247791002 Client Smp ID: RE15-10-8317
Inj Date : 02-MAR-2010 01:46
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791002|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.1/030110v7/7b133.d

Date: 02-MAR-2010 01:46

Client ID: RE15-10-8317

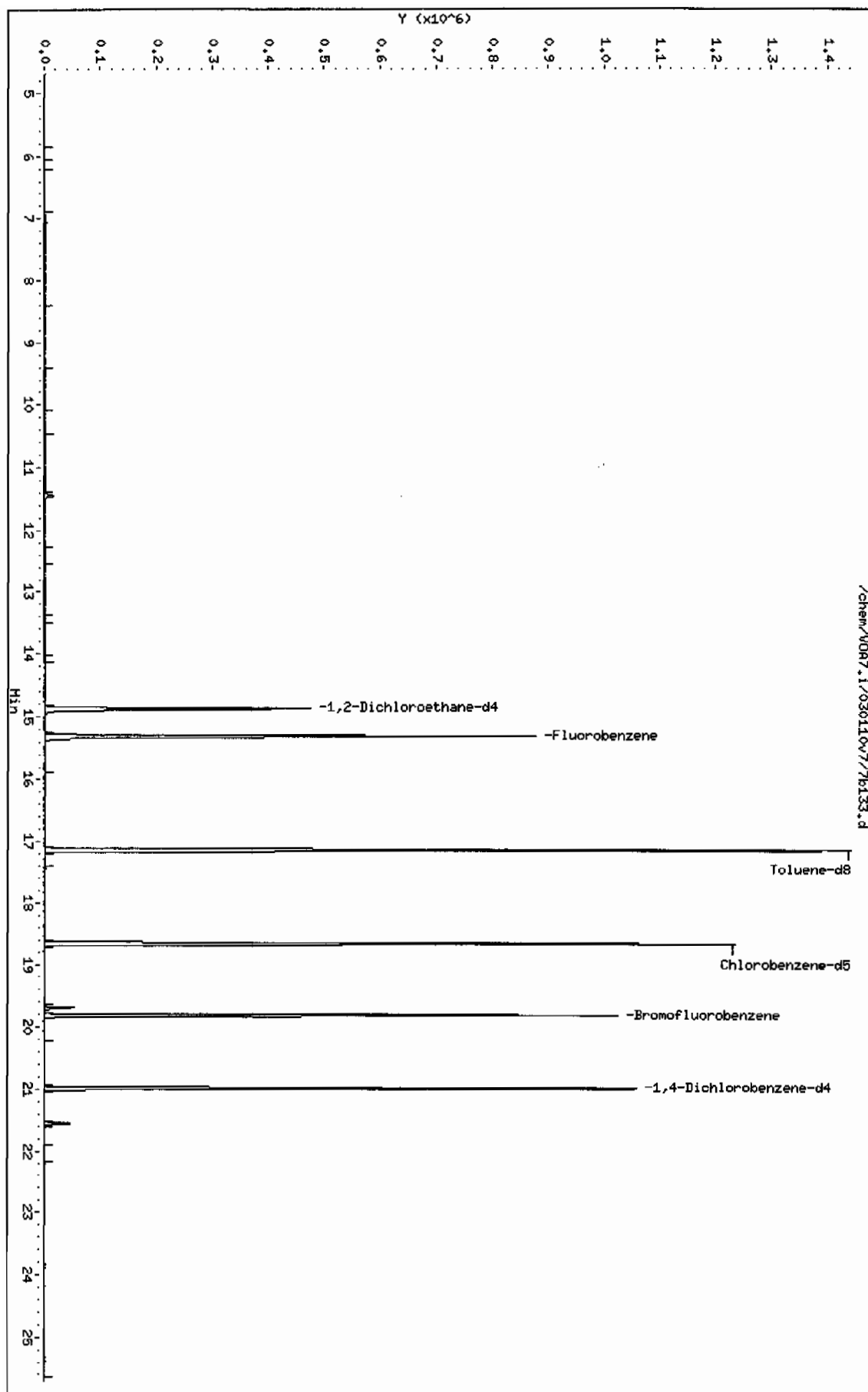
Sample Info: 1247791002195950411V0A7.1

Column Phase: DB-624

Instrument: V0A7.1

Operator: RK01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 959504
Run Date: 03/02/2010 04:06
Prep Date: 03/01/2010 15:34
Data File: 7b137.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.05	ug/kg	0.356	1.05
74-87-3	Chloromethane	U	1.05	ug/kg	0.314	1.05
75-01-4	Vinyl chloride	U	1.05	ug/kg	0.314	1.05
74-83-9	Bromomethane	U	1.05	ug/kg	0.314	1.05
75-00-3	Chloroethane	U	1.05	ug/kg	0.314	1.05
75-69-4	Trichlorofluoromethane	U	1.05	ug/kg	0.314	1.05
67-64-1	Acetone	U	5.24	ug/kg	1.74	5.24
75-35-4	1,1-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
74-88-4	Iodomethane	U	5.24	ug/kg	1.68	5.24
75-09-2	Methylene chloride	J	2.29	ug/kg	2.10	5.24
75-15-0	Carbon disulfide	U	5.24	ug/kg	1.31	5.24
156-60-5	trans-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
75-34-3	1,1-Dichloroethane	U	1.05	ug/kg	0.314	1.05
78-93-3	2-Butanone	U	5.24	ug/kg	1.57	5.24
156-59-2	cis-1,2-Dichloroethylene	U	1.05	ug/kg	0.314	1.05
594-20-7	2,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05
67-66-3	Chloroform	U	1.05	ug/kg	0.314	1.05
74-97-5	Bromochloromethane	U	1.05	ug/kg	0.346	1.05
71-55-6	1,1,1-Trichloroethane	U	1.05	ug/kg	0.314	1.05
563-58-6	1,1-Dichloropropene	U	1.05	ug/kg	0.314	1.05
56-23-5	Carbon tetrachloride	U	1.05	ug/kg	0.314	1.05
107-06-2	1,2-Dichloroethane	U	1.05	ug/kg	0.314	1.05
71-43-2	Benzene	U	1.05	ug/kg	0.314	1.05
79-01-6	Trichloroethylene	U	1.05	ug/kg	0.346	1.05
78-87-5	1,2-Dichloropropane	U	1.05	ug/kg	0.314	1.05
75-27-4	Bromodichloromethane	U	1.05	ug/kg	0.314	1.05
74-95-3	Dibromomethane	U	1.05	ug/kg	0.314	1.05
108-10-1	4-Methyl-2-pentanone	U	5.24	ug/kg	1.31	5.24
10061-01-5	cis-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.314	1.05
10061-02-6	trans-1,3-Dichloropropylene	U	1.05	ug/kg	0.314	1.05
79-00-5	1,1,2-Trichloroethane	U	1.05	ug/kg	0.314	1.05
591-78-6	2-Hexanone	U	5.24	ug/kg	1.57	5.24
142-28-9	1,3-Dichloropropane	U	1.05	ug/kg	0.314	1.05
127-18-4	Tetrachloroethylene	U	1.05	ug/kg	0.314	1.05
124-48-1	Dibromochloromethane	U	1.05	ug/kg	0.314	1.05
106-93-4	1,2-Dibromoethane	U	1.05	ug/kg	0.314	1.05
108-90-7	Chlorobenzene	U	1.05	ug/kg	0.314	1.05

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 959504
Run Date: 03/02/2010 04:06
Prep Date: 03/01/2010 15:34
Data File: 7b137.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.05	ug/kg	0.314	1.05
179601-23-1	m,p-Xylenes	U	2.10	ug/kg	0.314	2.10
95-47-6	o-Xylene	U	1.05	ug/kg	0.314	1.05
100-42-5	Styrene	U	1.05	ug/kg	0.314	1.05
75-25-2	Bromoform	U	1.05	ug/kg	0.314	1.05
79-34-5	1,1,2,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
96-18-4	1,2,3-Trichloropropane	U	1.05	ug/kg	0.314	1.05
108-86-1	Bromobenzene	U	1.05	ug/kg	0.314	1.05
103-65-1	n-Propylbenzene	U	1.05	ug/kg	0.314	1.05
95-49-8	2-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-82-8	Isopropylbenzene	U	1.05	ug/kg	0.314	1.05
108-67-8	1,3,5-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
106-43-4	4-Chlorotoluene	U	1.05	ug/kg	0.314	1.05
98-06-6	tert-Butylbenzene	U	1.05	ug/kg	0.314	1.05
95-63-6	1,2,4-Trimethylbenzene	U	1.05	ug/kg	0.314	1.05
135-98-8	sec-Butylbenzene	U	1.05	ug/kg	0.314	1.05
99-87-6	4-Isopropyltoluene	U	1.05	ug/kg	0.314	1.05
541-73-1	1,3-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
106-46-7	1,4-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05
104-51-8	n-Butylbenzene	U	1.05	ug/kg	0.314	1.05
96-12-8	1,2-Dibromo-3-chloropropane	U	1.05	ug/kg	0.314	1.05
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.24	ug/kg	1.68	5.24
630-20-6	1,1,1,2-Tetrachloroethane	U	1.05	ug/kg	0.314	1.05
95-50-1	1,2-Dichlorobenzene	U	1.05	ug/kg	0.314	1.05

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/030110v7/7b137.d

Lab Smp Id: 247791006

Client Smp ID: RE15-10-8318

Inj Date : 02-MAR-2010 04:06

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247791006|959504|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 37

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1982.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	4.54580	% 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)	726525	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	548990	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991 (1.000)	272327	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	312693	49.8156	52.2
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	868920	48.6301	50.9
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	320811	44.7843	46.9
22 Methylene chloride	86	11.449	11.449 (0.747)	6499	2.18948	2.3(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7b137.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791006

SampleType: SAMPLE

Injection Date: 02-MAR-2010 04:06

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791006|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	6499	11.45	11.45	80-120	100	()
84	9277	11.44	11.45	127-187	143	()
49	17422	11.45	11.45	255-315	268	()

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	11197	17.13	16.94	80-120	100	(T)
43	7355	17.13	16.94	218-278	66	(QT)
100	603202	17.13	16.94	0- 56	5387	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1189	19.81	19.54	80-120	100	(T)
175	15560	19.81	19.54	18- 78	1308	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030110v7/7b137.d
Report Date: 08-Mar-2010 17:12

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030110v7/7b137.d
Lab Smp Id: 247791006 Client Smp ID: RE15-10-8318
Inj Date : 02-MAR-2010 04:06
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791006|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V007.i/030110v7/7b137.d

Date : 02-MAR-2010 04:06

Client ID: RE16-10-8318

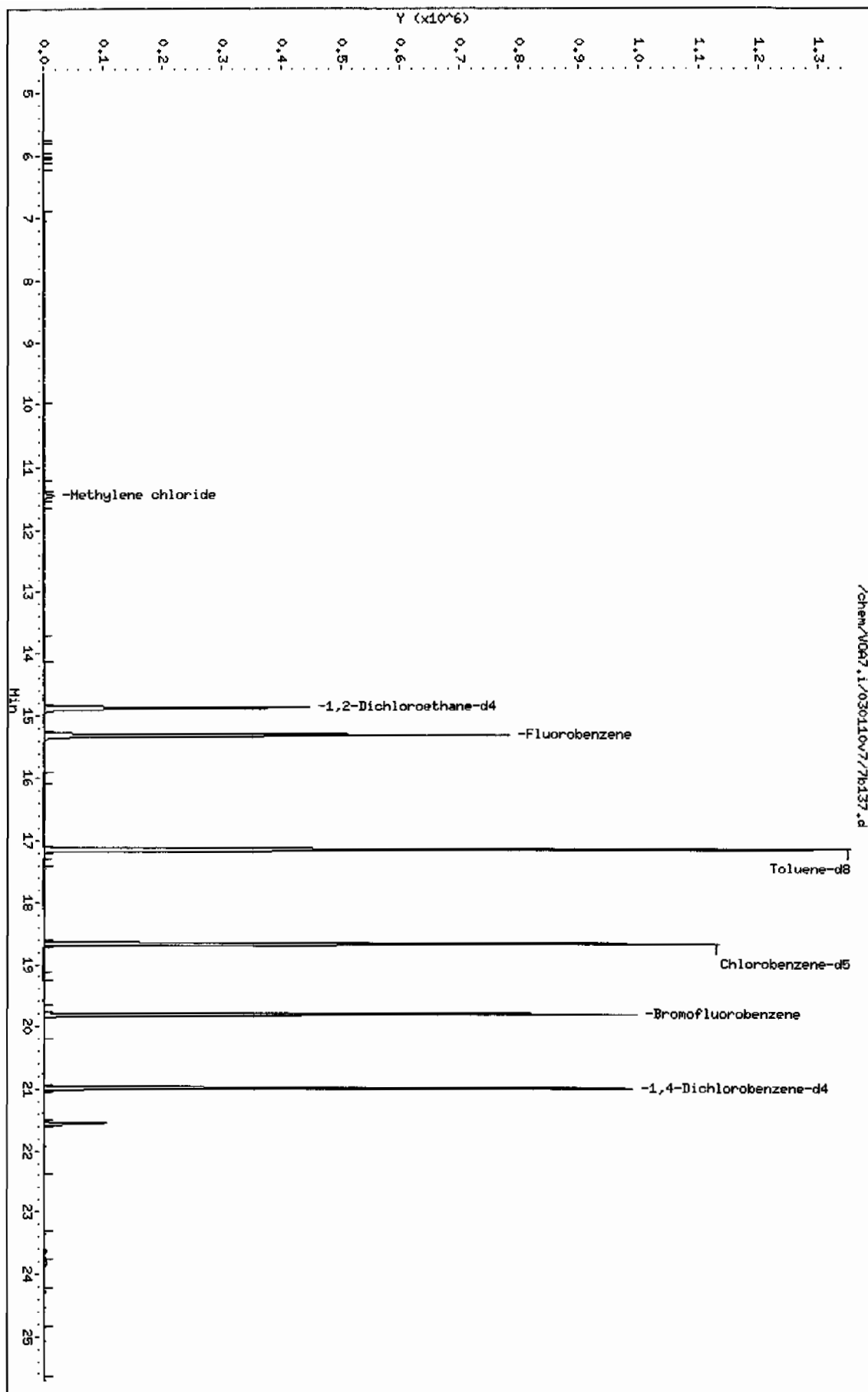
Sample Info: 1247791006195950411V00711

Column phase: DB-624

Instrument: V007.i

Operator: AK01

Column diameter: 0.25



Date : 02-MAR-2010 04:06

Client ID: RE15-10-8318

Instrument: VOA7.i

Sample Info: 12477910061959504111VOAF111

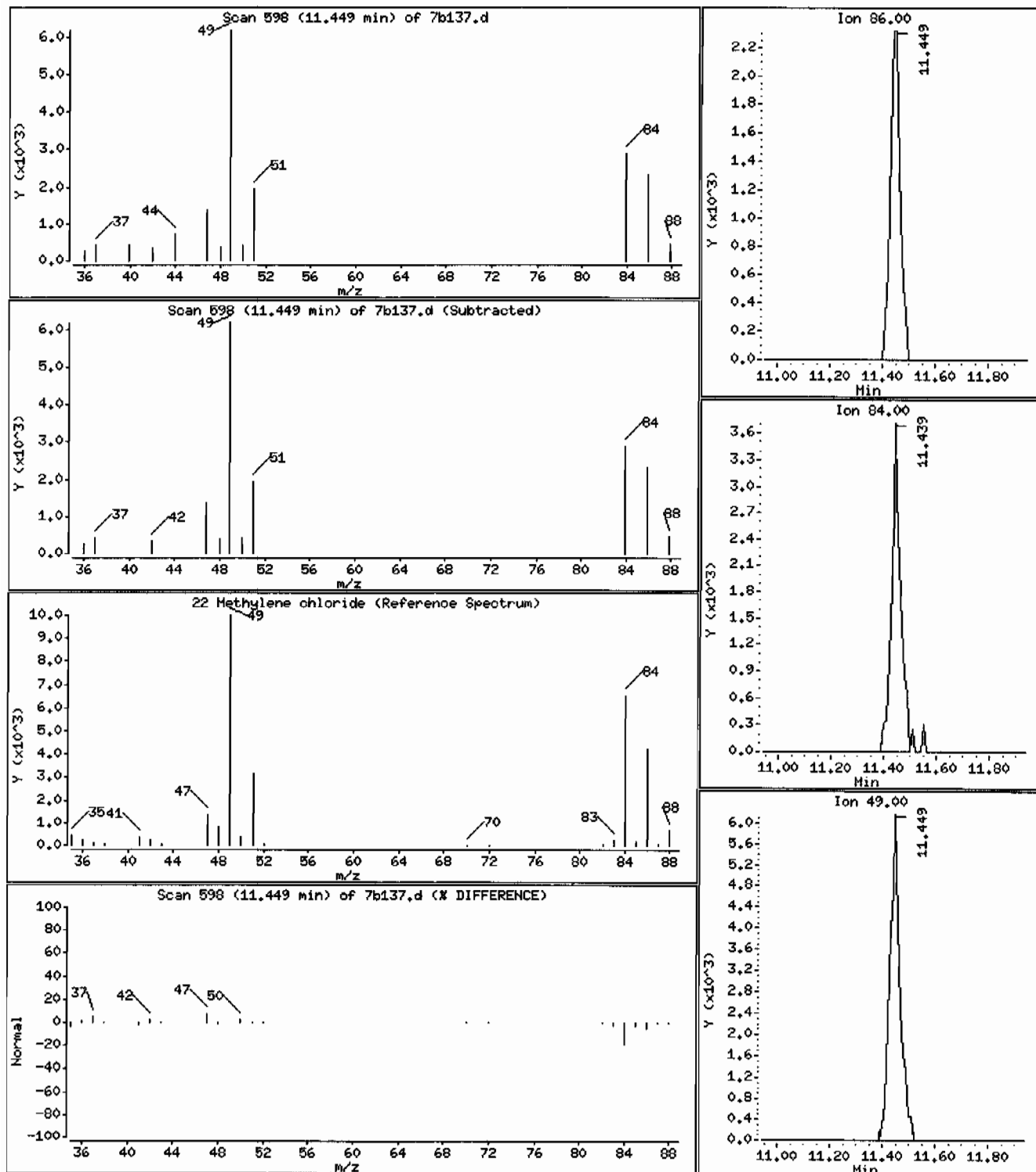
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 2.3 ug/Kg



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 959504
Run Date: 03/02/2010 02:21
Prep Date: 03/01/2010 15:28
Data File: 7b134.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.03	ug/kg	0.352	1.03
74-87-3	Chloromethane	U	1.03	ug/kg	0.310	1.03
75-01-4	Vinyl chloride	U	1.03	ug/kg	0.310	1.03
74-83-9	Bromomethane	U	1.03	ug/kg	0.310	1.03
75-00-3	Chloroethane	U	1.03	ug/kg	0.310	1.03
75-69-4	Trichlorofluoromethane	U	1.03	ug/kg	0.310	1.03
67-64-1	Acetone	U	5.17	ug/kg	1.72	5.17
75-35-4	1,1-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
74-88-4	Iodomethane	U	5.17	ug/kg	1.65	5.17
75-09-2	Methylene chloride	J	2.26	ug/kg	2.07	5.17
75-15-0	Carbon disulfide	U	5.17	ug/kg	1.29	5.17
156-60-5	trans-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
75-34-3	1,1-Dichloroethane	U	1.03	ug/kg	0.310	1.03
78-93-3	2-Butanone	U	5.17	ug/kg	1.55	5.17
156-59-2	cis-1,2-Dichloroethylene	U	1.03	ug/kg	0.310	1.03
594-20-7	2,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03
67-66-3	Chloroform	U	1.03	ug/kg	0.310	1.03
74-97-5	Bromochloromethane	U	1.03	ug/kg	0.341	1.03
71-55-6	1,1,1-Trichloroethane	U	1.03	ug/kg	0.310	1.03
563-58-6	1,1-Dichloropropene	U	1.03	ug/kg	0.310	1.03
56-23-5	Carbon tetrachloride	U	1.03	ug/kg	0.310	1.03
107-06-2	1,2-Dichloroethane	U	1.03	ug/kg	0.310	1.03
71-43-2	Benzene	U	1.03	ug/kg	0.310	1.03
79-01-6	Trichloroethylene	U	1.03	ug/kg	0.341	1.03
78-87-5	1,2-Dichloropropane	U	1.03	ug/kg	0.310	1.03
75-27-4	Bromodichloromethane	U	1.03	ug/kg	0.310	1.03
74-95-3	Dibromomethane	U	1.03	ug/kg	0.310	1.03
108-10-1	4-Methyl-2-pentanone	U	5.17	ug/kg	1.29	5.17
10061-01-5	cis-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03
108-88-3	Toluene	U	1.03	ug/kg	0.310	1.03
10061-02-6	trans-1,3-Dichloropropylene	U	1.03	ug/kg	0.310	1.03
79-00-5	1,1,2-Trichloroethane	U	1.03	ug/kg	0.310	1.03
591-78-6	2-Hexanone	U	5.17	ug/kg	1.55	5.17
142-28-9	1,3-Dichloropropane	U	1.03	ug/kg	0.310	1.03
127-18-4	Tetrachloroethylene	U	1.03	ug/kg	0.310	1.03
124-48-1	Dibromochloromethane	U	1.03	ug/kg	0.310	1.03
106-93-4	1,2-Dibromoethane	U	1.03	ug/kg	0.310	1.03
108-90-7	Chlorobenzene	U	1.03	ug/kg	0.310	1.03

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 959504
Run Date: 03/02/2010 02:21
Prep Date: 03/01/2010 15:28
Data File: 7b134.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.03	ug/kg	0.310	1.03
179601-23-1	m,p-Xylenes	U	2.07	ug/kg	0.310	2.07
95-47-6	o-Xylene	U	1.03	ug/kg	0.310	1.03
100-42-5	Styrene	U	1.03	ug/kg	0.310	1.03
75-25-2	Bromoform	U	1.03	ug/kg	0.310	1.03
79-34-5	1,1,2,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
96-18-4	1,2,3-Trichloropropane	U	1.03	ug/kg	0.310	1.03
108-86-1	Bromobenzene	U	1.03	ug/kg	0.310	1.03
103-65-1	n-Propylbenzene	U	1.03	ug/kg	0.310	1.03
95-49-8	2-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-82-8	Isopropylbenzene	U	1.03	ug/kg	0.310	1.03
108-67-8	1,3,5-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
106-43-4	4-Chlorotoluene	U	1.03	ug/kg	0.310	1.03
98-06-6	tert-Butylbenzene	U	1.03	ug/kg	0.310	1.03
95-63-6	1,2,4-Trimethylbenzene	U	1.03	ug/kg	0.310	1.03
135-98-8	sec-Butylbenzene	U	1.03	ug/kg	0.310	1.03
99-87-6	4-Isopropyltoluene	U	1.03	ug/kg	0.310	1.03
541-73-1	1,3-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
106-46-7	1,4-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03
104-51-8	n-Butylbenzene	U	1.03	ug/kg	0.310	1.03
96-12-8	1,2-Dibromo-3-chloropropane	U	1.03	ug/kg	0.310	1.03
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.17	ug/kg	1.65	5.17
630-20-6	1,1,1,2-Tetrachloroethane	U	1.03	ug/kg	0.310	1.03
95-50-1	1,2-Dichlorobenzene	U	1.03	ug/kg	0.310	1.03

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	21.55	11	ug/kg		J

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b134.d

Lab Smp Id: 247791003

Client Smp ID: RE15-10-8319

Inj Date : 02-MAR-2010 02:21

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247791003|959504|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 34

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1982.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	3.28180	% 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)	779149		50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	596237		50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	285358		50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	324577		48.2164	49.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	914151		47.1074	48.7
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	336077		44.7730	46.3
22 Methylene chloride	86	11.459	11.449	(0.748)	6960		2.18642	2.3(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7b134.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791003

SampleType: SAMPLE

Injection Date: 02-MAR-2010 02:21

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791003|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	6960	11.46	11.45	80-120	100	()
84	10283	11.44	11.45	127-187	148	()
49	18083	11.45	11.45	255-315	260	()

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	10598	17.13	16.94	80-120	100	(T)
43	6874	17.13	16.94	218-278	65	(QT)
100	628076	17.13	16.94	0- 56	5926	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1180	19.82	19.54	80-120	100	(T)
175	16903	19.81	19.54	18- 78	1432	(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/030110v7/7b134.d
Lab Smp Id: 247791003 Client Smp ID: RE15-10-8319
Inj Date : 02-MAR-2010 02:21
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791003|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	3.28180	% 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	2024004	50.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane CAS #:							
21.550	431184	10.6517570	11.0	0		0	101

Data File: /chem/V007.1/030110v7/7b134.d

Date : 02-MAR-2010 02:21

Client ID: RE15-10-8319

Sample Info: 124791003|959504|1|V007.1|

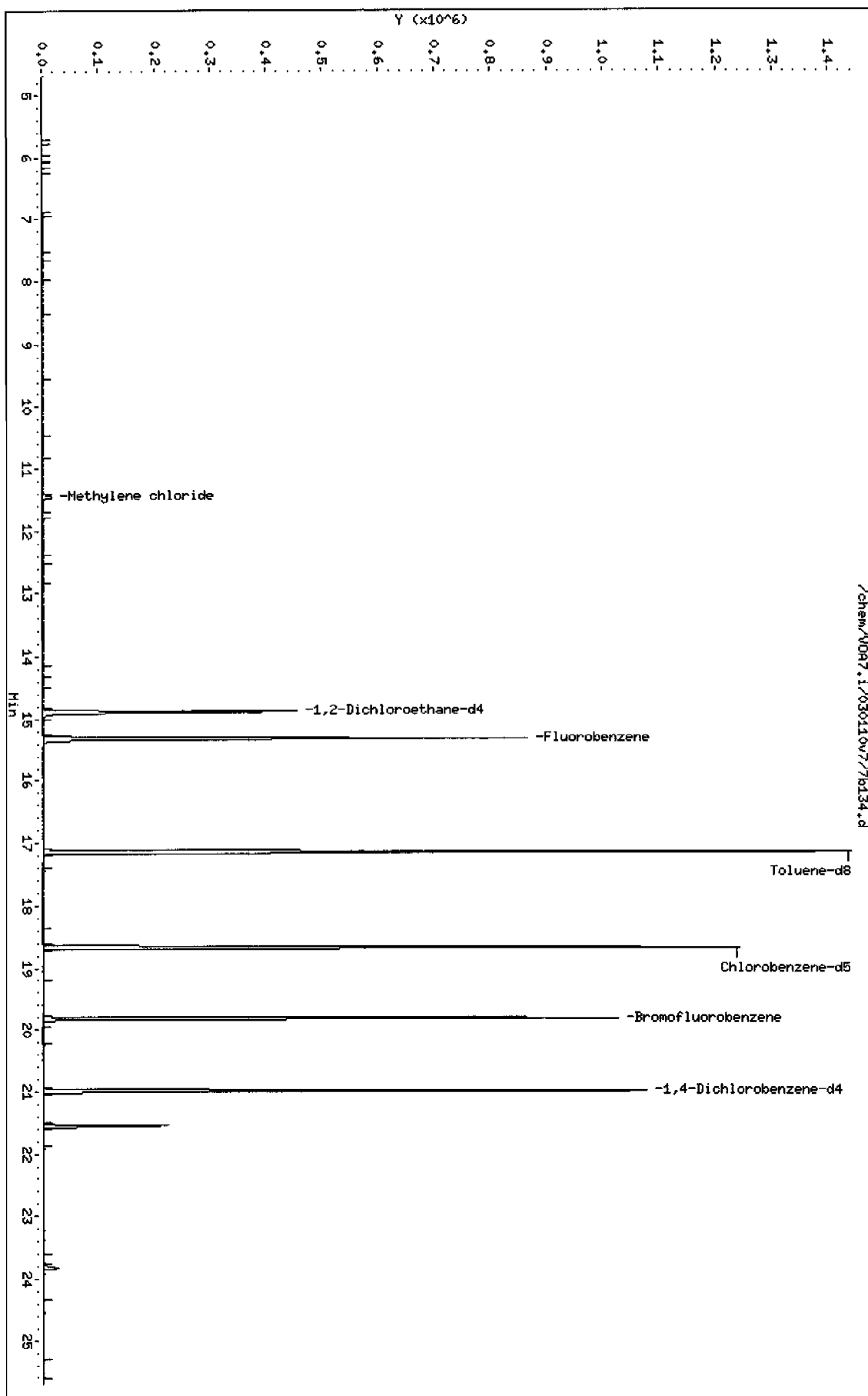
Page 1

Column phase: DB-624

Instrument: V007.1

Operator: RK01

Column diameter: 0.25



Date : 02-MAR-2010 02:21

Client ID: RE15-10-8319

Instrument: VOA7.i

Sample Info: 12477910031959504111VOAF111

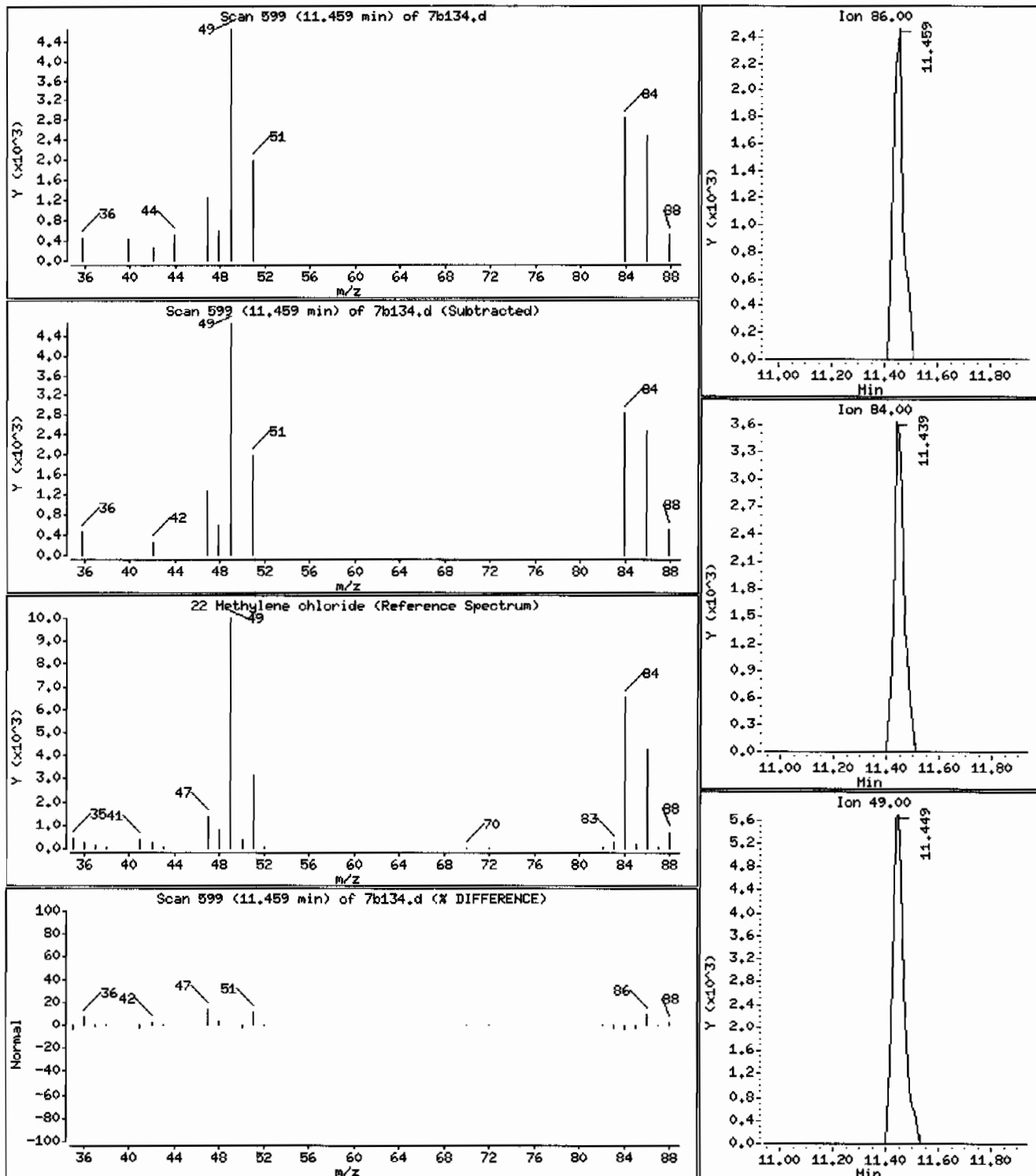
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 2.3 ug/Kg



Date : 02-MAR-2010 02:21

Client ID: RE15-10-8319

Instrument: V0A7.i

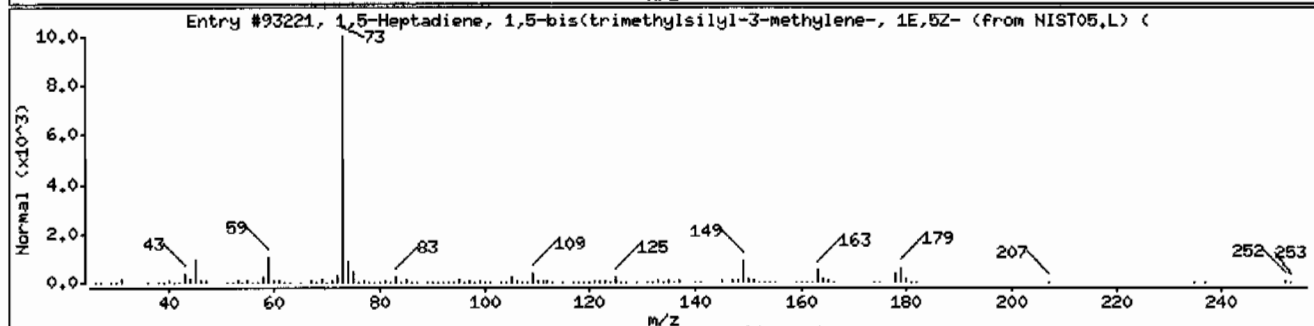
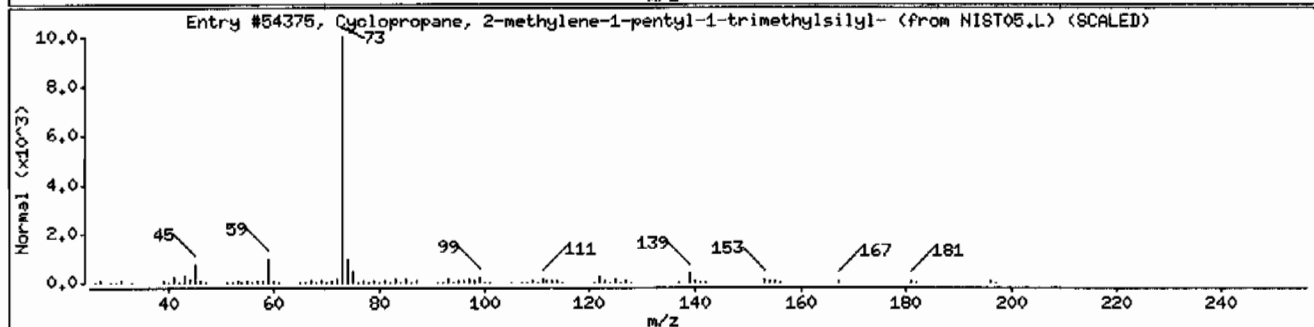
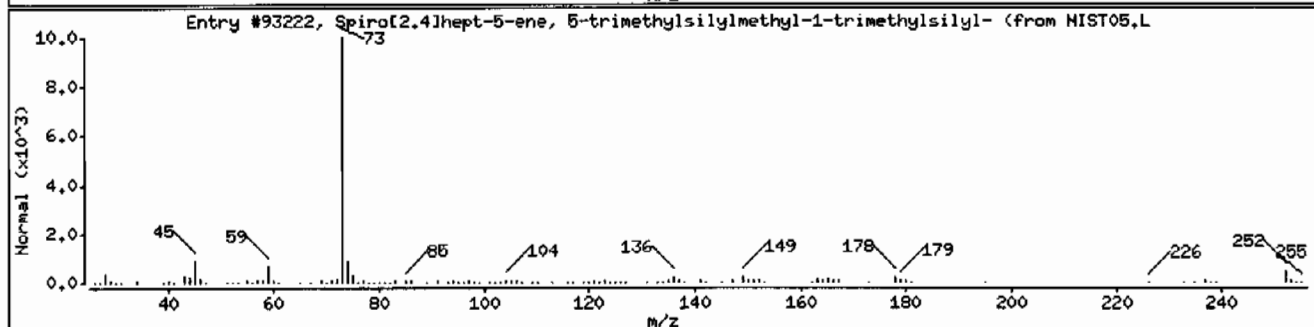
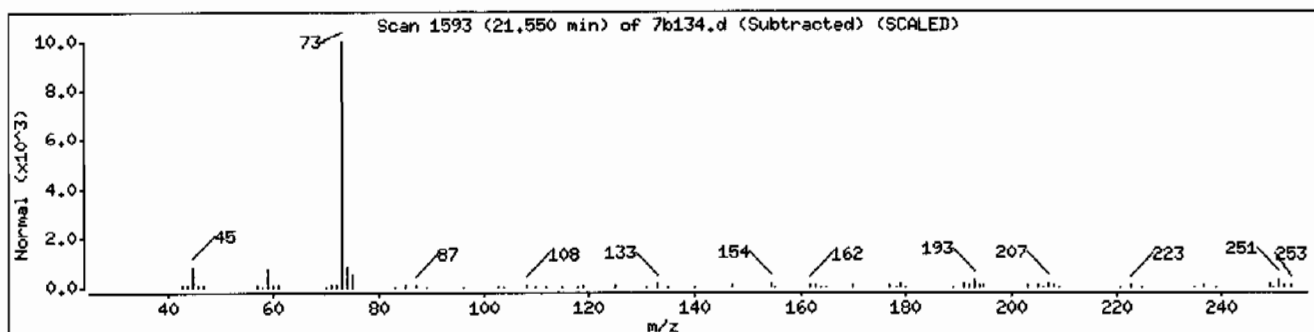
Sample Info: 12477910031959504111V0AF111

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	38	C ₁₄ H ₂₈ Si ₂	252
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	37	C ₁₂ H ₂₄ Si	196
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: 10-1982
 Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

Matrix: R
 %Moisture: 4
 Project: LANL01004
 SOP Ref: GL-OA-E-038
 Dilution: 1
 Purge Vol: 5 mL
 Final Volume: 5 mL
 Level: LOW

Client ID: RE15-10-8326
 Batch ID: 959504
 Run Date: 03/02/2010 03:30
 Prep Date: 03/01/2010 15:32
 Data File: 7b136.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.04	ug/kg	0.354	1.04
74-87-3	Chloromethane	U	1.04	ug/kg	0.313	1.04
75-01-4	Vinyl chloride	U	1.04	ug/kg	0.313	1.04
74-83-9	Bromomethane	U	1.04	ug/kg	0.313	1.04
75-00-3	Chloroethane	U	1.04	ug/kg	0.313	1.04
75-69-4	Trichlorofluoromethane	U	1.04	ug/kg	0.313	1.04
67-64-1	Acetone	U	5.21	ug/kg	1.73	5.21
75-35-4	1,1-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
74-88-4	Iodomethane	U	5.21	ug/kg	1.67	5.21
75-09-2	Methylene chloride	J	2.27	ug/kg	2.08	5.21
75-15-0	Carbon disulfide	U	5.21	ug/kg	1.30	5.21
156-60-5	trans-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
75-34-3	1,1-Dichloroethane	U	1.04	ug/kg	0.313	1.04
78-93-3	2-Butanone	U	5.21	ug/kg	1.56	5.21
156-59-2	cis-1,2-Dichloroethylene	U	1.04	ug/kg	0.313	1.04
594-20-7	2,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
67-66-3	Chloroform	U	1.04	ug/kg	0.313	1.04
74-97-5	Bromochloromethane	U	1.04	ug/kg	0.344	1.04
71-55-6	1,1,1-Trichloroethane	U	1.04	ug/kg	0.313	1.04
563-58-6	1,1-Dichloropropene	U	1.04	ug/kg	0.313	1.04
56-23-5	Carbon tetrachloride	U	1.04	ug/kg	0.313	1.04
107-06-2	1,2-Dichloroethane	U	1.04	ug/kg	0.313	1.04
71-43-2	Benzene	U	1.04	ug/kg	0.313	1.04
79-01-6	Trichloroethylene	U	1.04	ug/kg	0.344	1.04
78-87-5	1,2-Dichloropropane	U	1.04	ug/kg	0.313	1.04
75-27-4	Bromodichloromethane	U	1.04	ug/kg	0.313	1.04
74-95-3	Dibromomethane	U	1.04	ug/kg	0.313	1.04
108-10-1	4-Methyl-2-pentanone	U	5.21	ug/kg	1.30	5.21
10061-01-5	cis-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.313	1.04
10061-02-6	trans-1,3-Dichloropropylene	U	1.04	ug/kg	0.313	1.04
79-00-5	1,1,2-Trichloroethane	U	1.04	ug/kg	0.313	1.04
591-78-6	2-Hexanone	U	5.21	ug/kg	1.56	5.21
142-28-9	1,3-Dichloropropane	U	1.04	ug/kg	0.313	1.04
127-18-4	Tetrachloroethylene	U	1.04	ug/kg	0.313	1.04
124-48-1	Dibromochloromethane	U	1.04	ug/kg	0.313	1.04
106-93-4	1,2-Dibromoethane	U	1.04	ug/kg	0.313	1.04
108-90-7	Chlorobenzene	U	1.04	ug/kg	0.313	1.04

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.I
Analyst: AX01
Aliquot: 5 g
Column: DB-624

Matrix: R
%Moisture: 4
Project: LANL01004
SOP Ref: GL-OA-E-038
Dilution: 1
Purge Vol: 5 mL
Final Volume: 5 mL
Level: LOW

Client ID: RE15-10-8326
Batch ID: 959504
Run Date: 03/02/2010 03:30
Prep Date: 03/01/2010 15:32
Data File: 7b136.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.313	1.04
179601-23-1	m,p-Xylenes	U	2.08	ug/kg	0.313	2.08
95-47-6	o-Xylene	U	1.04	ug/kg	0.313	1.04
100-42-5	Styrene	U	1.04	ug/kg	0.313	1.04
75-25-2	Bromoform	U	1.04	ug/kg	0.313	1.04
79-34-5	1,1,2,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
96-18-4	1,2,3-Trichloropropane	U	1.04	ug/kg	0.313	1.04
108-86-1	Bromobenzene	U	1.04	ug/kg	0.313	1.04
103-65-1	n-Propylbenzene	U	1.04	ug/kg	0.313	1.04
95-49-8	2-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-82-8	Isopropylbenzene	U	1.04	ug/kg	0.313	1.04
108-67-8	1,3,5-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
106-43-4	4-Chlorotoluene	U	1.04	ug/kg	0.313	1.04
98-06-6	tert-Butylbenzene	U	1.04	ug/kg	0.313	1.04
95-63-6	1,2,4-Trimethylbenzene	U	1.04	ug/kg	0.313	1.04
135-98-8	sec-Butylbenzene	U	1.04	ug/kg	0.313	1.04
99-87-6	4-Isopropyltoluene	U	1.04	ug/kg	0.313	1.04
541-73-1	1,3-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
106-46-7	1,4-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04
104-51-8	n-Butylbenzene	U	1.04	ug/kg	0.313	1.04
96-12-8	1,2-Dibromo-3-chloropropane	U	1.04	ug/kg	0.313	1.04
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.21	ug/kg	1.67	5.21
630-20-6	1,1,1,2-Tetrachloroethane	U	1.04	ug/kg	0.313	1.04
95-50-1	1,2-Dichlorobenzene	U	1.04	ug/kg	0.313	1.04

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Siloxane	19.69	6.84	ug/kg		J
	Unknown Siloxane	21.55	14.7	ug/kg		J

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b136.d

Lab Smp Id: 247791005

Client Smp ID: RE15-10-8326

Inj Date : 02-MAR-2010 03:30

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247791005|959504|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 36

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1982.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	4.01310	% 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)	723133	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	553567	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	276569	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	310889	49.7605	51.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	857727	47.6068	49.6
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	306328	42.1066	43.9
22 Methylene chloride	86	11.459	11.449	(0.748)	6438	2.17911	2.3(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7b136.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791005

SampleType: SAMPLE

Injection Date: 02-MAR-2010 03:30

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791005|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	6438	11.46	11.45	80-120	100	()
84	9272	11.45	11.45	127-187	144	()
49	16941	11.45	11.45	255-315	263	()

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	10592	17.13	16.94	80-120	100	(T)
43	6954	17.13	16.94	218-278	66	(QT)
100	589316	17.14	16.94	0- 56	5564	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1147	19.81	19.54	80-120	100	(T)
175	16597	19.81	19.54	18- 78	1447	(QT)

89 1,2,3-Trichloropropane				CAS#: 96-18-4		
110	1070	19.69	19.97	80-120	100	(T)
75	4167	19.69	19.97	307-367	389	(QT)
77	1934	19.81	19.97	93-153	181	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030110v7/7b136.d
Report Date: 08-Mar-2010 12:56

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030110v7/7b136.d
Lab Smp Id: 247791005 Client Smp ID: RE15-10-8326
Inj Date : 02-MAR-2010 03:30
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791005|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	4.01310	% 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	2018560	50.000
* 101 1,4-Dichlorobenzene-d4	20.991	1907885	50.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Siloxane							
19.692	265109	6.56678250	6.8	0		0	75

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/l)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
21.550	537857	14.0956210	14.7	0		0	101

Unknown Siloxane CAS #:

Data File: /chem/V0A7.1/030110v7/7b136.d

Date : 02-MAR-2010 03:30

Client ID: RE15-10-8326

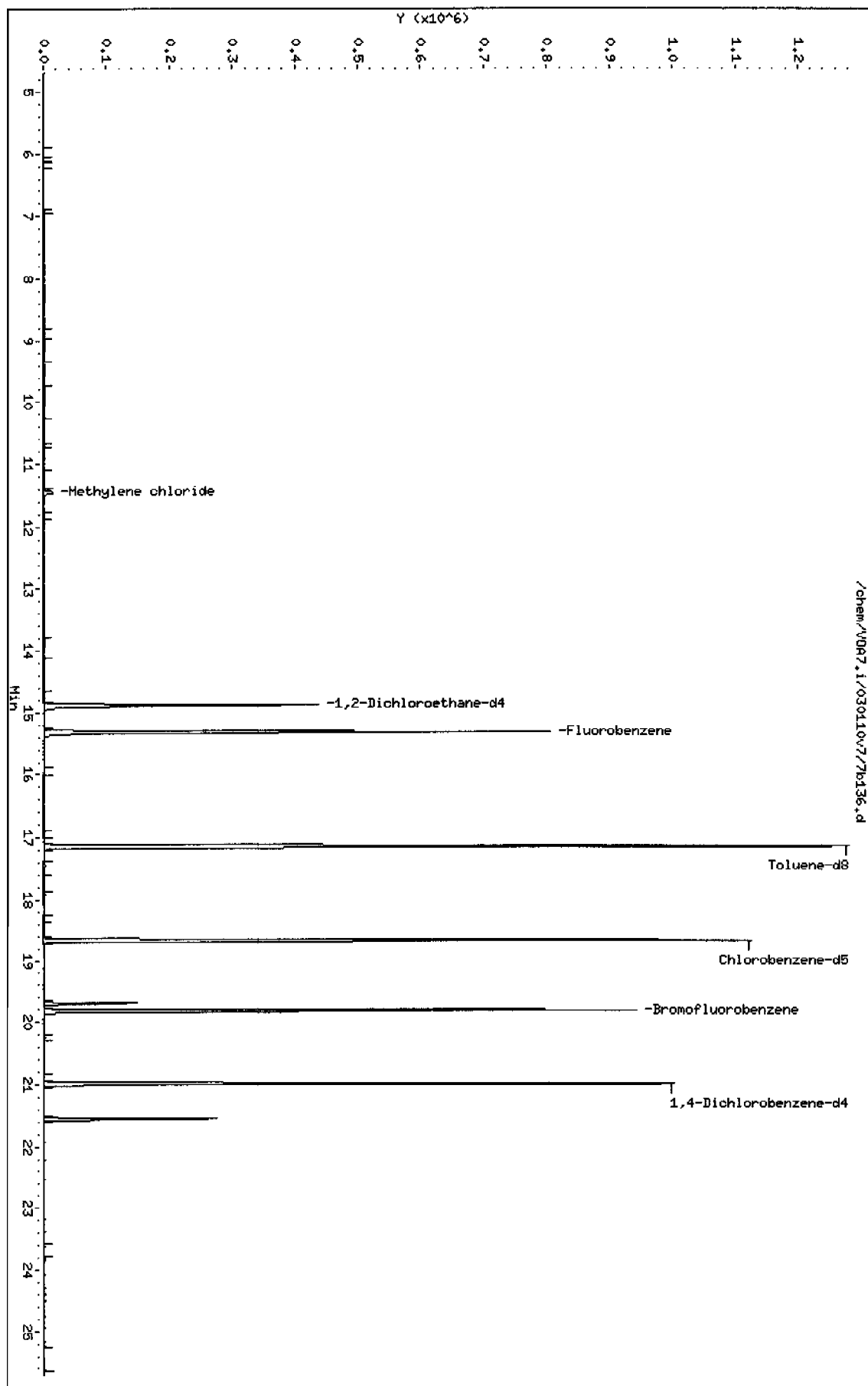
Sample Info: 1247791005195950411V0A7111

Column phase: DB-624

Instrument: V0A7.i

Operator: RXD1

Column diameter: 0.25



Date : 02-MAR-2010 03:30

Client ID: RE15-10-8326

Instrument: V0A7.i

Sample Info: 1247791005195950411V0AF111

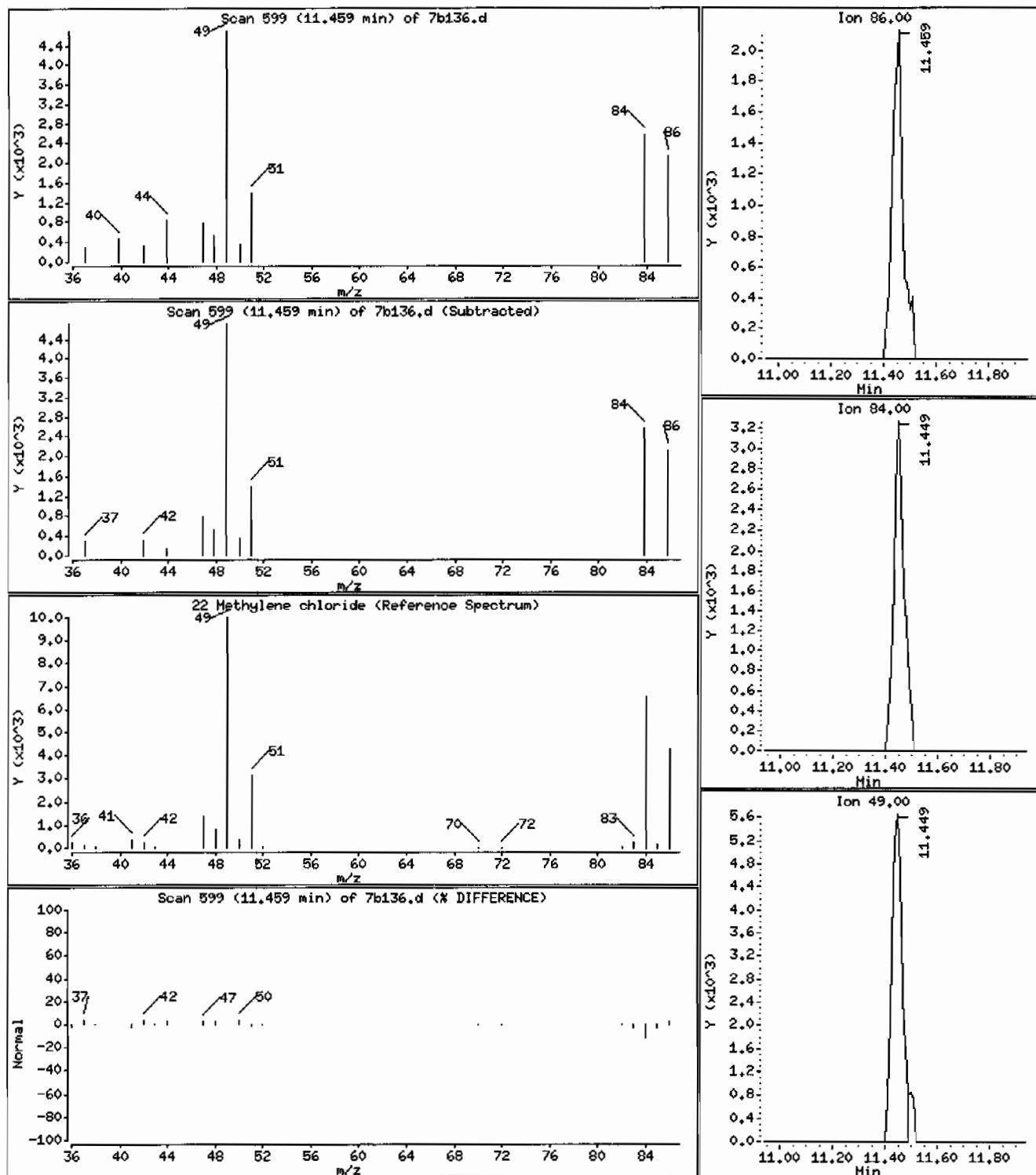
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 2.3 ug/Kg



Date : 02-MAR-2010 03:30

Client ID: RE15-10-8326

Instrument: VOA7.i

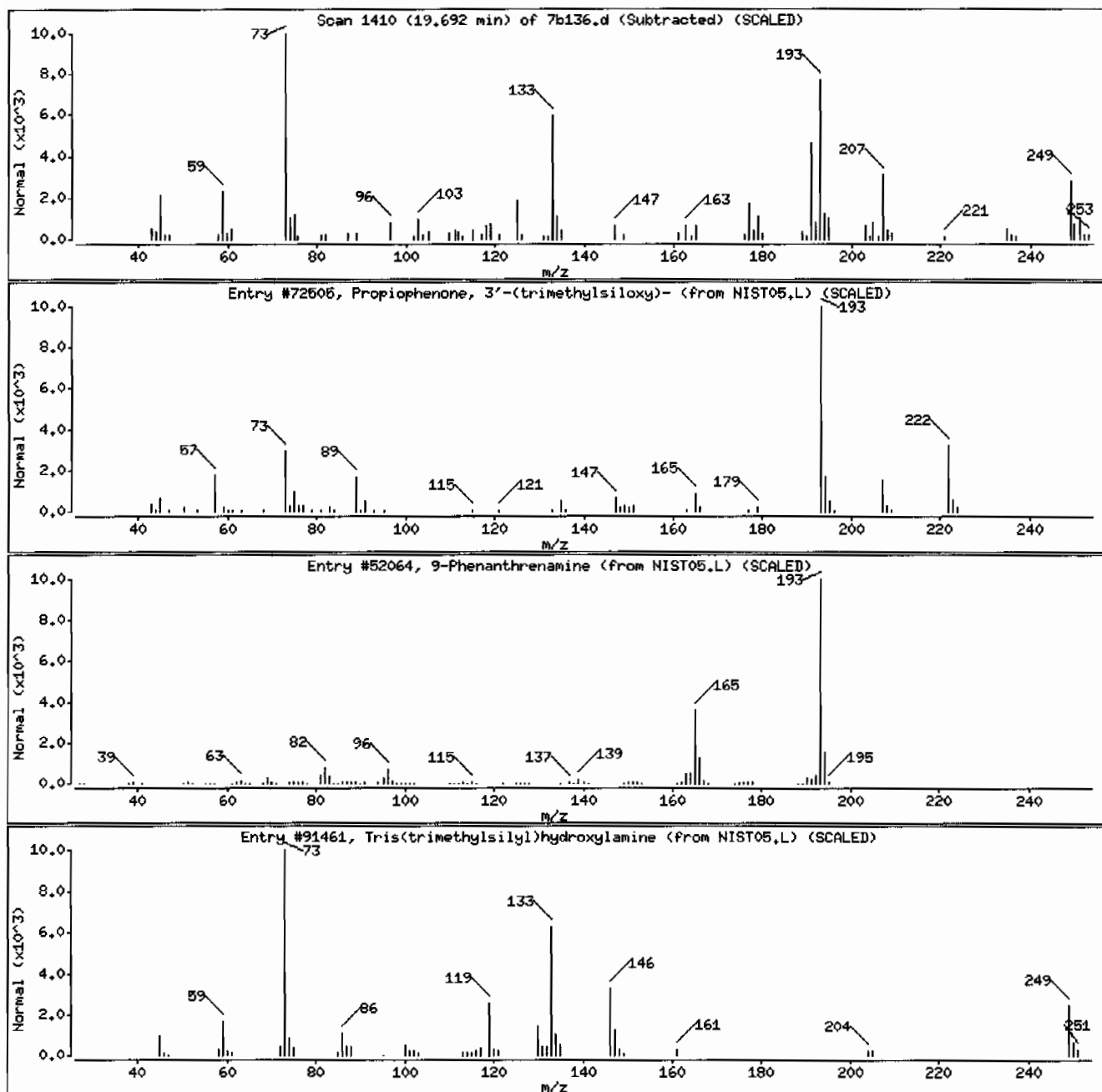
Sample Info: I247791005I959504I1I\VOAFI1I

Operator: AX01

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Propiophenone, 3'-(trimethylsiloxy)-	33342-88-0	NIST05.L	72505	25	C ₁₂ H ₁₈ O ₂ Si	222
9-Phenanthrenamine	947-73-9	NIST05.L	52064	25	C ₁₄ H ₁₁ N	193
Tris(trimethylsilyl)hydroxylamine	21023-20-1	NIST05.L	91461	25	C ₉ H ₂₇ NOSi ₃	249



Date : 02-MAR-2010 03:30

Client ID: RE15-10-8326

Instrument: VOA7.i

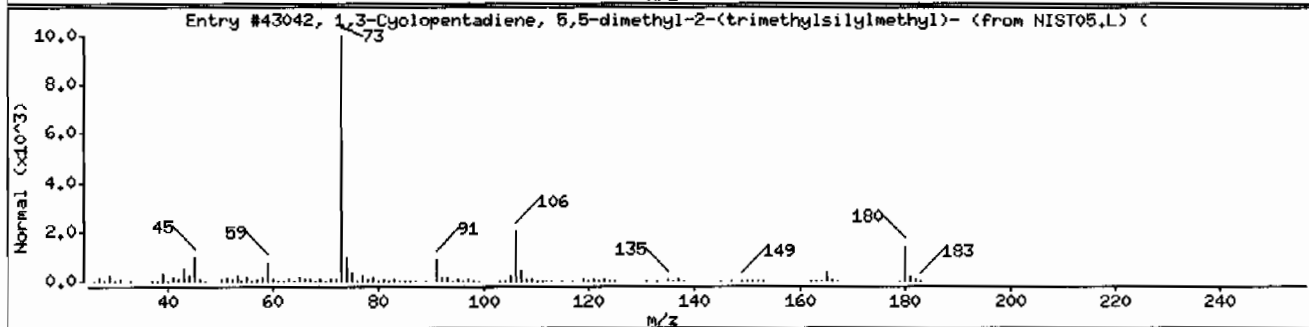
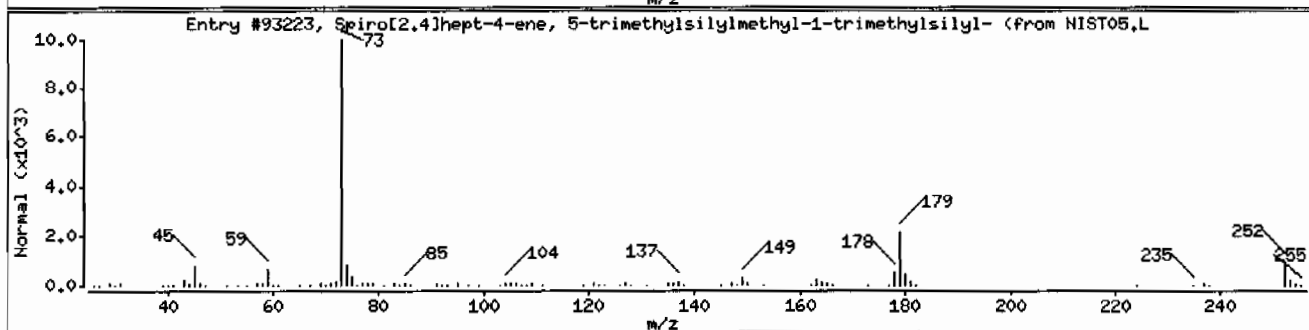
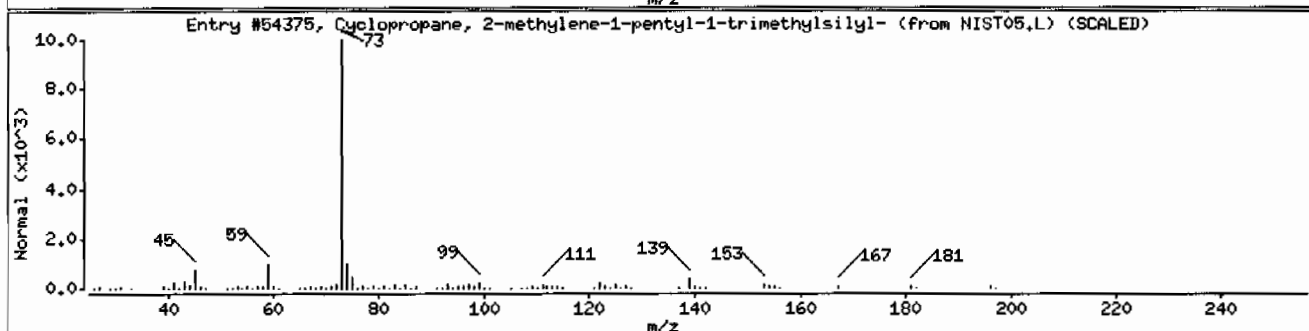
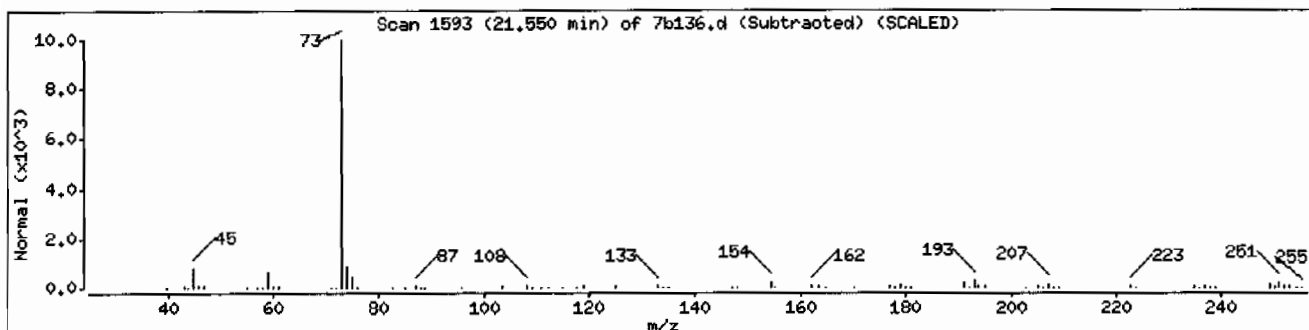
Sample Info: I2477910051959504111VOAF111

Operator: AXD1

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Cyclopropane, 2-methylene-1-pentyl-1-tri	167300-47-2	NIST05.L	54375	40	C ₁₂ H ₂₄ Si	196
Spiro[2.4]hept-4-ene, 5-trimethylsilylme	1000153-97-0	NIST05.L	93223	36	C ₁₄ H ₂₈ Si ₂	252
1,3-Cyclopentadiene, 5,5-dimethyl-2-(tri	1000163-64-8	NIST05.L	43042	33	C ₁₁ H ₂₀ Si	180



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791001

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8260B
 Inst: VOA7.I
 Analyst: AXO1
 Aliquot: 5 g
 Column: DB-624

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

Client ID: RE15-10-8335
 Batch ID: 959504
 Run Date: 03/02/2010 01:10
 Prep Date: 03/01/2010 15:20
 Data File: 7b132.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane	U	1.00	ug/kg	0.340	1.00
74-87-3	Chloromethane	U	1.00	ug/kg	0.300	1.00
75-01-4	Vinyl chloride	U	1.00	ug/kg	0.300	1.00
74-83-9	Bromomethane	U	1.00	ug/kg	0.300	1.00
75-00-3	Chloroethane	U	1.00	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/kg	0.300	1.00
67-64-1	Acetone	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	J	2.22	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: 10-1982
Lab Sample ID: 247791001

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8260B
Inst: VOA7.1
Analyst: AXO1
Aliquot: 5 g
Column: DB-624

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

Client ID: RE15-10-8335
Batch ID: 959504
Run Date: 03/02/2010 01:10
Prep Date: 03/01/2010 15:20
Data File: 7b132.d

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

Tentatively Identified Compound Summary

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

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b132.d

Lab Smp Id: 247791001

Client Smp ID: RE15-10-8335

Inj Date : 02-MAR-2010 01:10

Operator : AX01

Inst ID: VOA7.i

Smp Info : |247791001|959504|1|VOAF|1|

Misc Info : LANL 5g N/A

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 32

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1982.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	FINAL
						(ug/l)	(ug/Kg)
* 51 Fluorobenzene	96	15.316	15.317	(1.000)	791180	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	589745	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	286998	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	353211	51.6722	51.7
\$ 64 Toluene-d8	98	17.144	17.134	(0.918)	961233	50.0789	50.1
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	349902	46.3484	46.3
22 Methylene chloride	86	11.449	11.449	(0.747)	7188	2.22371	2.2(a)

QC Flag Legend

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

ION RATIO REPORT

VOA REPORT

Data file: 7b132.d

Report Date: 03/02/2010 06:21

Lab. ID: 247791001

SampleType: SAMPLE

Injection Date: 02-MAR-2010 01:10

Operator: AX01

Instrument: VOA7.i

Sample Info: |247791001|1|VOAF|1|

Miscellaneous Info: LANL 5g N/A

Comment:

Method used: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
22 Methylene chloride				CAS#: 75-09-2		
86	7188	11.45	11.45	80-120	100	()
84	10332	11.45	11.45	127-187	144	()
49	20034	11.45	11.45	255-315	279	()

63 4-Methyl-2-pentanone				CAS#: 108-10-1		
58	11133	17.13	16.94	80-120	100	(T)
43	7057	17.13	16.94	218-278	63	(QT)
100	648873	17.13	16.94	0- 56	5828	(QT)

82 Bromoform				CAS#: 75-25-2		
173	1317	19.81	19.54	80-120	100	(T)
175	17950	19.81	19.54	18- 78	1363	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/VOA7.i/030110v7/7b132.d
Report Date: 08-Mar-2010 12:57

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
Data file : /chem/VOA7.i/030110v7/7b132.d
Lab Smp Id: 247791001 Client Smp ID: RE15-10-8335
Inj Date : 02-MAR-2010 01:10
Operator : AX01 Inst ID: VOA7.i
Smp Info : |247791001|959504|1|VOAF|1|
Misc Info : LANL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/V0A7.1/030110v7/7b132.d

Date: 02-MAR-2010 01:10

Client ID: RE15-10-8335

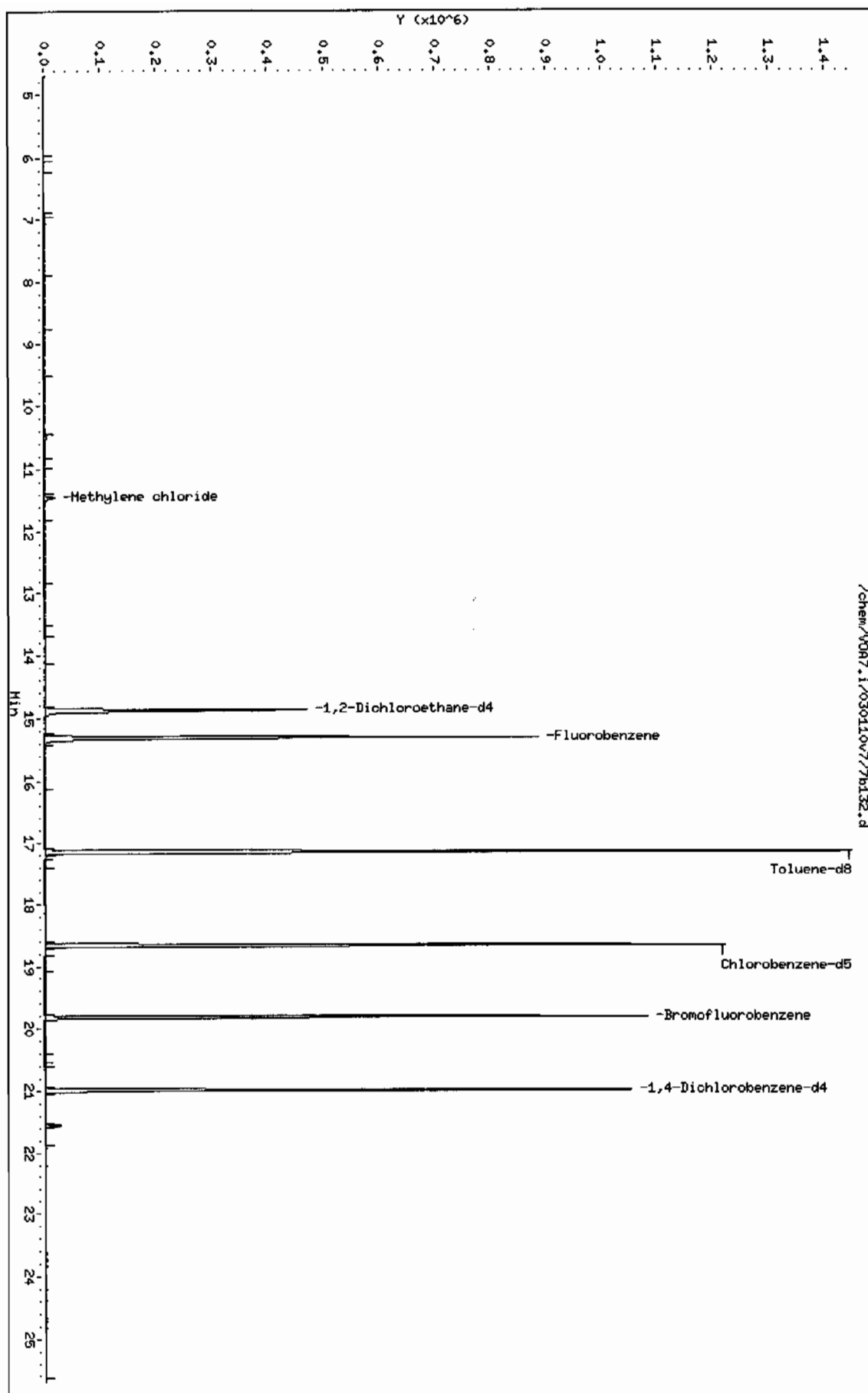
Sample Info: 1247791001195950411V0A7.11

Column phase: DB-624

Instrument: V0A7.1

Operator: AX01

Column diameter: 0.25



Date : 02-MAR-2010 01:10

Client ID: RE15-10-8335

Instrument: V0A7.i

Sample Info: 1247791001195950411V0AF11

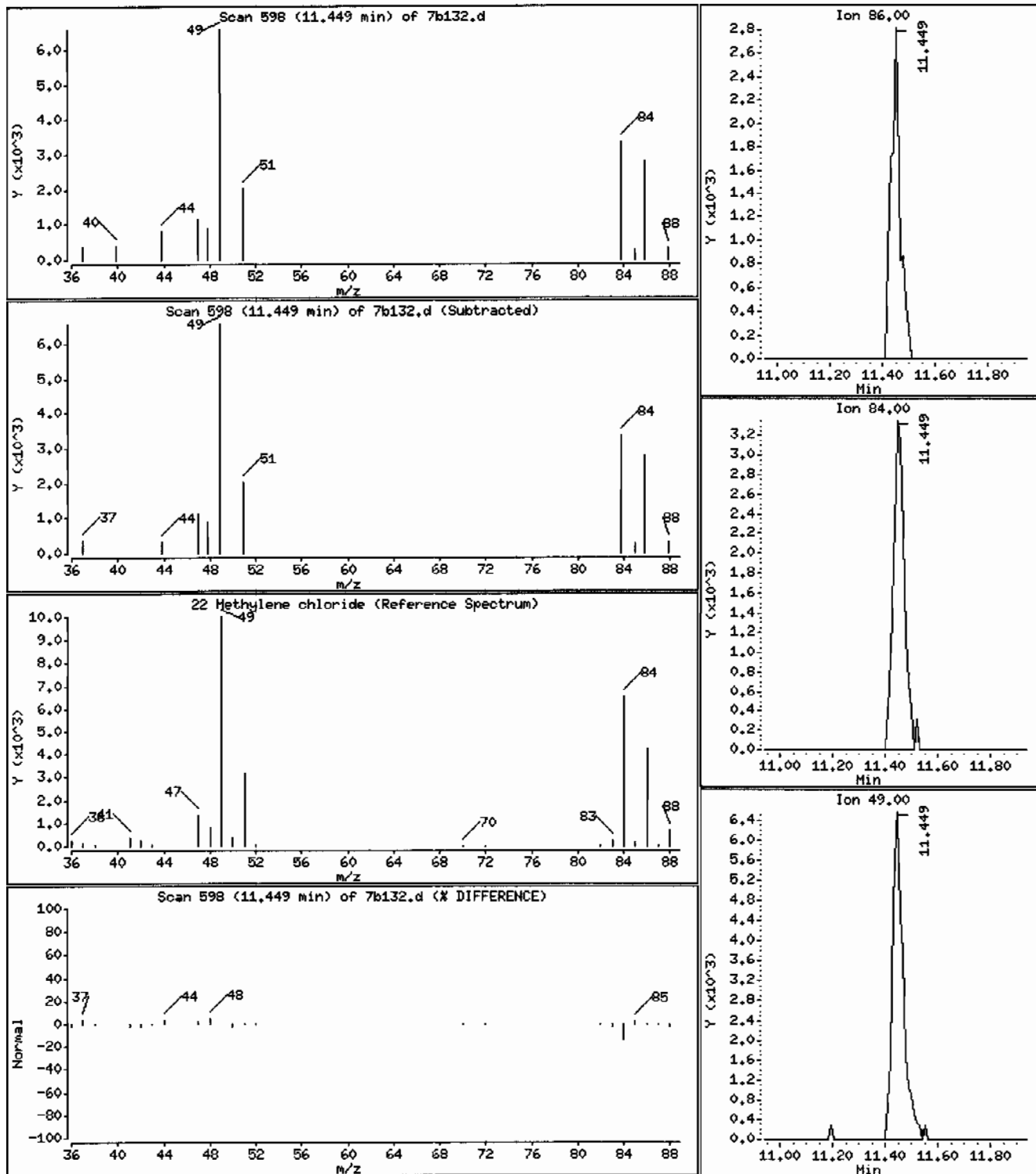
Operator: AX01

Column phase: DB-624

Column diameter: 0.25

22 Methylene chloride

Concentration: 2.2 ug/Kg



Standard Data

Calibration Standard Concentration Levels

	Level 1	Level 1a	Level 2	Level 3	Level 4 #	Level 5	Level 6	Level 7 !	Level 7a
Fluorobenzene (IS)									
1,2-Dichloroethane-d4(surr)		0.5	1	2	5	10	20	50	100
Dichlorodifluoromethane		0.5	1	2	5	10	20	50	100
Chloromethane		0.5	1	2	5	10	20	50	100
Vinyl chloride		0.5	1	2	5	10	20	50	100
Bromomethane		0.5	1	2	5	10	20	50	100
Chloroethane		0.5	1	2	5	10	20	50	100
Trichlorofluoromethane		0.5	1	2	5	10	20	50	100
1,1-Dichloroethene		0.5	1	2	5	10	20	50	100
Acetone	1	2.5	5	10	25	50	100	250	500
Iodomethane	1	2.5	5	10	25	50	100	250	500
Carbon disulfide	1	2.5	5	10	25	50	100	250	500
Methylene chloride		0.5	1	2	5	10	20	50	100
trans-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,1-Dichloroethane		0.5	1	2	5	10	20	50	100
Ethyl ether		0.5	1	2	5	10	20	50	100
Vinyl acetate	1	2.5	5	10	25	50	100	250	500
cis-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethene (total)		1	2	4	10	20	40	100	200
Cyclohexene		0.5	1	2	5	10	20	50	100
2-Chloroethylvinyl ether			5	10	25	50	100	250	500
2,2-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Butanone	1	2.5	5	10	25	50	100	250	500
Bromochloromethane		0.5	1	2	5	10	20	50	100
Chloroform		0.5	1	2	5	10	20	50	100
1,1,1-Trichloroethane		0.5	1	2	5	10	20	50	100
1,1-Dichloropropene		0.5	1	2	5	10	20	50	100
Carbon tetrachloride		0.5	1	2	5	10	20	50	100
Benzene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethane		0.5	1	2	5	10	20	50	100
Trichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloropropane		0.5	1	2	5	10	20	50	100
Dibromomethane		0.5	1	2	5	10	20	50	100
Bromodichloromethane		0.5	1	2	5	10	20	50	100
cis-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
tert-Butylmethylether		0.5	1	2	5	10	20	50	100
Ethyl Ether			1	2	5	10	20	50	100
Acetonitrile			25	50	125	250	500	1250	2500
Methyl acetate			5	10	25	50	100	250	500
Cyclohexane			1	2	5	10	20	50	100
Methylcyclohexane			1	2	5	10	20	50	100
n-Butyl alcohol			50	100	250	500	1000	2500	5000
2-Nitropropane			5	10	25	50	100	250	500
Ethyl acetate			5	10	25	50	100	250	500
Acrolein			5	10	25	50	100	250	500
Trichlorotrifluoroethane			5	10	25	50	100	250	500
Allyl chloride			5	10	25	50	100	250	500
Acrylonitrile			5	10	25	50	100	250	500
1,4-Dioxane			50	100	250	500	1000	2500	5000
Isobutyl alcohol			50	100	250	500	1000	2500	5000
Methacrylonitrile			5	10	25	50	100	250	500
Propionitrile			5	10	25	50	100	250	500
Methyl methacrylate			5	10	25	50	100	250	500
Chlorotrifluoroethylene			5	10	25	50	100	250	500
2-Chloro-1,1,1-trifluoroethane			5	10	25	50	100	250	500

tert-Butyl alcohol			50	100	250	500	1000	2500	5000
Isopropyl ether			1	2	5	10	20	50	100
Ethyl tert-butyl ether			1	2	5	10	20	50	100
Isopropyl alcohol			50	100	250	500	1000	2500	5000
Methyl tert-amyl ether			1	2	5	10	20	50	100
1-Chlorohexane			1	2	5	10	20	50	100
2-Chloro-1,3-butadiene(chloroprene)			1	2	5	10	20	50	100
Chlorobenzene-d5 (IS)									
Toluene-d8 (surr)		0.5	1	2	5	10	20	50	100
4-Methyl-2-pentanone	1	2.5	5	10	25	50	100	250	500
Toluene		0.5	1	2	5	10	20	50	100
trans-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
1,1,2-Trichloroethane		0.5	1	2	5	10	20	50	100
Tetrachloroethene		0.5	1	2	5	10	20	50	100
1,3-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Hexanone	1	2.5	5	10	25	50	20	250	500
Dibromochloromethane		0.5	1	2	5	10	20	50	100
1,2-Dibromoethane		0.5	1	2	5	10	20	50	100
Chlorobenzene		0.5	1	2	5	10	20	50	100
1,1,1,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Ethylbenzene		0.5	1	2	5	10	20	50	100
m,p-Xylene		1	2	4	10	20	20	100	200
o-Xylene		0.5	1	2	5	10	20	50	100
Xylenes (total)		1.5	3	6	15	30	60	150	300
Stryene		0.5	1	2	5	10	20	50	100
Cyclohexanone			50	100	250	500	1000	2500	5000
Ethyl methacrylate			5	10	25	50	100	250	500
1,4-Dichlorobenzene-d4 (IS)									
Bromofluorobenzene (surr)		0.5	1	2	5	10	20	50	100
Bromoform		0.5	1	2	5	10	20	50	100
Isopropylbenzene		0.5	1	2	5	10	20	50	100
1,1,2,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Bromobenzene		0.5	1	2	5	10	20	50	100
1,2,3-Trichloropropane		0.5	1	2	5	10	20	50	100
n-Propylbenzene		0.5	1	2	5	10	20	50	100
2-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,3,5-Trimethylbenzene		0.5	1	2	5	10	20	50	100
4-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,2,4-Trimethylbenzene		0.5	1	2	5	10	20	50	100
sec-Butylbenzene		0.5	1	2	5	10	20	50	100
1,3-Dichlorobenzene		0.5	1	2	5	10	20	50	100
tert-Butylbenzene		0.5	1	2	5	10	20	50	100
Isopropyltoluene		0.5	1	2	5	10	20	50	100
1,4-Dichlorobenzene		0.5	1	2	5	10	20	50	100
n-Butylbenzene		0.5	1	2	5	10	20	50	100
1,2-Dichlorobenzene		0.5	1	2	5	10	20	50	100
1,2-Dibromo-3-chloropropa		0.5	1	2	5	10	20	50	100
1,2,4-Trichlorobenzene		0.5	1	2	5	10	20	50	100
Hexachlorobutadiene		0.5	1	2	5	10	20	50	100
Naphthalene		0.5	1	2	5	10	20	50	100
1,2,3-Trichlorobenzene		0.5	1	2	5	10	20	50	100
cis-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
trans-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
Tetrahydrofuran			5	10	25	50	100	250	500
Pentachloroethane			5	10	25	50	100	250	500
Benzyl chloride			5	10	25	50	100	250	500
bis(2-Chloro-isopropyl)ether			5	10	25	50	100	250	500

Report Date: 02-Mar-2010 06:19

Calibration History

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.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	
01-MAR-2010 20:31	CALsubL+ /chem/VOA7.i/030110v7/7b124.d
Ccal Level: 6 , Ccal Amount: 50.0	
01-MAR-2010 21:40	CALsubS+SS /chem/VOA7.i/030110v7/7b126.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/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	ml	Coefficients	m2	%RSD or R^2
1,3-Dichloropropylene	0.42063 0.47574	0.42665 ++++	0.45952 	0.44593	0.48874	0.44785	AVRG	0.45215	0.45519	5.45519		
2 Xylenes (total)	0.62830 0.62692	0.67143 ++++	0.66860	0.64173	0.68474	0.59685	AVRG	0.64551	4.80271			
1,2-Dichloroethylene (total)	0.54927 0.46213	0.50779 ++++	0.51933	0.49776	0.47859	0.45089	AVRG	0.49511	6.90087			
147 Chlorotrifluoroethylene	++++ ++++	0.10076 ++++	0.11210	0.09704	0.11905	0.10241	AVRG	0.10627	8.51602			
148 2-Chloro-1,1,1-trifluoroethane	++++ 0.18804	0.23271 ++++	0.22089	0.21365	0.20617	0.20476	AVRG	0.21104	7.23518			

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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
4 Dichlorodifluoromethane	0.14689 0.14671	0.16337 ++++	0.17771	0.15010	0.15669	0.14834	AVRG		0.15569		7.36086
5 Chloromethane	0.52870 0.38772	0.50818 ++++	0.48152	0.45665	0.48246	0.42873	AVRG		0.46771		10.25591
6 Vinyl chloride	0.50952 0.32494	0.46079 ++++	0.43218	0.40625	0.41055	0.36375	AVRG		0.41543		14.62877
7 Bromomethane	0.25780 0.22760	0.23623 ++++	0.23278	0.22734	0.24344	0.23277	AVRG		0.23685		4.53392
8 Chloroethane	0.22734 0.20451	0.22323 ++++	0.21132	0.20164	0.21135	0.20785	AVRG		0.21246		4.47108
9 Trichlorofluoromethane	0.35996 0.28982	0.35068 ++++	0.30112	0.30563	0.31443	0.30426	AVRG		0.31799		8.38225
10 Ethyl Ether	0.28008 0.29597	0.32062 ++++	0.28724	0.29016	0.29781	0.29886	AVRG		0.29582		4.32385
11 Acrolein	0.04418 0.06092	0.03949 ++++	0.04544	0.04756	0.04531	0.05365	AVRG		0.04808		14.70368
12 Trichlorotrifluoroethane	0.10245 0.07720	0.09727 ++++	0.09404	0.09075	0.07953	0.07034	AVRG		0.08737		13.51328

GEL Laboratories LLC

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 Integrator : HP RTE
 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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	0.36279	0.32383	0.32654	0.34124	0.31027	AVRG		0.33491		7.33338
	0.30889	++++									
14 1,1-Dichloroethylene	0.23466	0.22304	0.23525	0.21218	0.20855	0.19843	AVRG		0.21744		6.41898
	0.23998	++++									
15 Isopropyl Alcohol	0.03379	0.02848	0.03362	0.03382	0.03438	0.02970	AVRG		0.03252		7.32915
	0.03385	++++									
16 Iodomethane	0.39608	0.36645	0.40560	0.38566	0.35788	0.35975	AVRG		0.37891		4.84456
	0.38094	++++									
17 Acetonitrile	0.06193	0.06381	0.05756	0.05797	0.05730	0.06594	AVRG		0.05935		8.41770
	0.05095	++++									
18 Methyl acetate	0.35515	0.29749	0.32852	0.31506	0.29869	0.29447	AVRG		0.30971		8.25337
	0.27857	++++									
19 Carbon disulfide	0.89266	0.79048	0.83100	0.78713	0.71568	0.68163	AVRG		0.76494		11.07438
	0.65599	++++									
20 Allyl chloride	0.53968	0.50526	0.50958	0.48676	0.45362	0.42965	AVRG		0.47439		10.59305
	0.39621	++++									
21 tert-Butyl Alcohol	0.05167	0.04139	0.04764	0.04767	0.05022	0.04265	AVRG		0.04700		7.96307
	0.04776	++++									

GEL Laboratories LLC

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 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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	0.46689 ++++	0.48692	0.46195	0.45327	0.42294	AVRG		0.45970	6.61934
26 Vinyl acetate	0.77450 0.60197	0.85406 ++++	0.75762	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

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 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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									
31 2-Butanone	0.38771	0.40391	0.35922	0.36946	0.40769	0.34405	AVRG		0.37353		7.19573
	0.34266	++++									
32 Ethyl acetate	0.44278	0.41784	0.45125	0.42632	0.40256	0.35807	AVRG		0.40471		10.77753
	0.33414	++++									
33 cis-1,2-Dichloroethylene	0.59471	0.54869	0.55173	0.53357	0.50390	0.47885	AVRG		0.53052		7.33716
	0.50219	++++									
34 2,2-Dichloropropane	0.29938	0.24188	0.25597	0.23681	0.21790	0.23089	AVRG		0.24848		10.56617
	0.25653	++++									
35 Propionitrile	0.07002	0.05258	0.06457	0.05980	0.05683	0.05325	AVRG		0.05907		10.68190
	0.05642	++++									
36 Methacrylonitrile	0.25818	0.24456	0.27034	0.26013	0.24380	0.22478	AVRG		0.24530		8.04738
	0.21528	++++									
37 Bromochloromethane	0.40223	0.39817	0.41300	0.40043	0.38909	0.36555	AVRG		0.39220		4.15023
	0.37692	++++									
38 Chloroform	0.58519	0.49407	0.49340	0.48912	0.49932	0.45410	AVRG		0.49798		8.35869
	0.47062	++++									
39 Tetrahydrofuran	0.47764	0.44454	0.45944	0.42050	0.41053	0.36338	AVRG		0.41916		10.93258
	0.35812	++++									

GEL Laboratories LLC
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Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100 Level 7	200 Level 8									
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-amyl ether	++++ 0.72584	0.62391 ++++	0.62516	0.64841	0.70561	0.68979	AVRG		0.66978		6.46614
50 Cyclohexene	0.56390 0.48987	0.50610 ++++	0.54171	0.51654	0.51454	0.47290	AVRG		0.51508		5.92603

GEL Laboratories LLC

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 Cal Date : 02-Mar-2010 06:16 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
52 n-Butyl alcohol	0.01179	0.01241	0.01216	0.01341	0.01403	0.01399	AVRG		0.01300		7.09548
53 Trichloroethylene	0.27430	0.26438	0.27397	0.26519	0.27618	0.24387	AVRG		0.26489		4.39586
54 Methyl methacrylate	0.22336	0.20671	0.22931	0.22055	0.21809	0.21228	AVRG		0.21684		3.87232
55 Methylcyclohexane	0.49966	0.43861	0.44481	0.44006	0.43612	0.40383	AVRG		0.44055		6.73024
56 1,2-Dichloropropane	0.39245	0.36897	0.38177	0.37142	0.36583	0.33120	AVRG		0.36406		6.16845
57 1,4-Dioxane	0.00348	0.00250	0.00354	0.00334	0.00323	0.00313	AVRG		0.00326		11.42936
58 Dibromomethane	0.19196	0.19723	0.19939	0.19727	0.19889	0.19046	AVRG		0.19638		1.86881
59 Bromodichloromethane	0.39732	0.36909	0.39631	0.38593	0.41432	0.37605	AVRG		0.39044		3.84034
60 2-Nitropropane	0.13385	0.11919	0.14652	0.14531	0.14750	0.14329	AVRG		0.14035		7.43854

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
61 2-Chloroethylvinyl ether	0.13828 0.14819	0.13131 ++++	0.13224	0.14312	0.24531	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		7.06661
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	0.58118	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		14.65103
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

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 Cal Date : 02-Mar-2010 06:16 ale01592

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	b	ml	Coefficients	m2	%RSD or R^2
71 Tetrachloroethylene	0.28354 0.24094	0.25342 ++++	0.26414 0.23364	0.23364 0.24287	0.24287 0.22289	0.22289 AVRG	AVRG	0.24878	0.24878	AVRG	0.24878	8.14204
72 Dibromochloromethane	0.33269 0.39353	0.34579 ++++	0.36231 0.35639	0.35639 0.40520	0.40520 0.36488	0.36488 AVRG	AVRG	0.36583	0.36583	AVRG	0.36583	6.98702
73 1,2-Dibromoethane	0.36328 0.37253	0.35222 ++++	0.36077 0.36799	0.36799 0.40005	0.40005 0.35812	0.35812 AVRG	AVRG	0.36785	0.36785	AVRG	0.36785	4.25309
74 1-Chlorohexane	0.34706 0.30890	0.30121 ++++	0.31913 0.33191	0.33191 0.32325	0.32325 0.30402	0.30402 AVRG	AVRG	0.31936	0.31936	AVRG	0.31936	5.13508
76 Chlorobenzene	1.01098 0.86362	0.95127 ++++	0.95000 0.30197	0.91236 0.30384	0.96965 0.34945	0.82857 0.31502	AVRG	0.92664	0.92664	AVRG	0.92664	6.81260
77 1,1,1,2-Tetrachloroethane	0.30146 0.35239	0.31109 ++++	0.30197 1.76134	0.30384 1.68668	0.34945 1.76608	0.31502 1.44831	AVRG	0.31932	0.31932	AVRG	0.31932	6.94131
78 Ethylbenzene	1.85154 1.43524	1.82479 ++++	1.76134 0.65895	1.68668 0.62920	1.76608 0.66820	1.44831 0.57827	AVRG	1.68200	1.68200	AVRG	1.68200	10.24073
79 m,p-Xylenes	0.62114 0.60453	0.67062 ++++	0.65895 0.68788	0.62920 0.66680	0.66820 0.71782	0.57827 0.63403	AVRG	0.63299	0.63299	AVRG	0.63299	5.50638
80 o-Xylene	0.64264 0.67170	0.67305 ++++	0.68788 0.66680	0.66680 0.71782	0.71782 0.63403	0.63403 AVRG	AVRG	0.67056	0.67056	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/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 ale01592

Compound	1	2	5	10	20	50	Curve	b	ml	Coeficients	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	100	200										
	Level 7	Level 8										
81 Styrene	1.03480	1.05435	1.09579	1.08161	1.17767	1.02490	AVRG		1.07382			4.85533
	1.04761	++++										
82 Bromoform	0.44800	0.46729	0.45445	0.44703	0.54809	0.46991	AVRG		0.47906			8.15291
	0.51866	++++										
83 Isopropylbenzene	3.49497	3.66615	3.43580	3.19632	3.44542	2.75679	AVRG		3.23464			12.06581
	2.64705	++++										
84 cis-1,4-Dichloro-2-butene	0.38069	0.31673	0.41215	0.40845	0.41138	0.39737	AVRG		0.38900			8.67306
	0.39623	++++										
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	1.21572	1.15731	1.10829	1.25926	1.00651						
	0.98082	++++					AVRG		1.13151			9.31719
88 trans-1,4-Dichloro-2-butene	0.31891	0.31312	0.36778	0.36391	0.36234	0.36318						
	0.36821	++++					AVRG		0.35107			6.86595
89 1,2,3-Trichloropropane	0.28647	0.24666	0.22625	0.24828	0.25953	0.22210						
	0.23411	++++					AVRG		0.24620			8.97349
90 Bromobenzene	0.76034	0.78745	0.77871	0.75408	0.80267	0.68660						
	0.73175	++++					AVRG		0.75737			5.14118

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/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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									
91 n-Propylbenzene	4.68347	4.56352	4.37500	4.07800	4.36558	3.44795	AVRG	4.11235			13.35638
	3.27290	++++									
92 1,3,5-Trimethylbenzene	2.81587	2.87105	2.68849	2.60394	2.92918	2.42595	AVRG		2.67285		8.07975
	2.37547	++++									
93 2-Chlorotoluene	3.05461	3.13194	2.82160	2.73305	3.05604	2.48242	AVRG	2.81550			10.07173
	2.42881	++++									
94 4-Chlorotoluene	2.83303	2.73655	2.57278	2.45072	2.69458	2.22008	AVRG		2.52732		10.03292
	2.18348	++++									
95 tert-Butylbenzene	2.54254	2.53348	2.52529	2.35277	2.63624	2.17076	AVRG	2.42130			7.65601
	2.18802	++++									
96 1,2,4-Trimethylbenzene	2.83048	2.81952	2.78705	2.63535	2.97059	2.45445	AVRG		2.70506		7.47088
	2.43799	++++									
97 Pentachloroethane	0.26106	0.28148	0.29783	0.29968	0.26523	0.29207	AVRG		0.28176		5.48711
	0.27493	++++									
98 sec-Butylbenzene	3.89578	3.94634	3.68073	3.52735	3.87381	3.06099	AVRG		3.56563		11.26370
	2.97444	++++									
99 4-Isopropyltoluene	2.79121	2.68596	2.60196	2.47043	2.87417	2.31964	AVRG		2.57723		8.71312
	2.29722	++++									

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/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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 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	3.28392	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	0.53325 ++++	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		
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
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Cal Date : 02-Mar-2010 06:16 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
110 Naphthalene	2.39039 2.29053 Level 7	2.32801 ++++ Level 8	2.24690	2.18867	2.66812	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/030110v7/VOA7-8260B-021710PM.m
Cal Date : 02-Mar-2010 06:16 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
M 2 Xylenes (total)	0.64551	0.62451	0.62451	0.050	-3.25377	30.00000	Averaged
M 3 1,2-Dichloroethylene (total)	0.49511	0.45815	0.45815	0.050	-7.46472	30.00000	Averaged
M 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
26 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 RF50	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.

Data File: /chem/VOA7.i/021710v7/7z328.d
Report Date: 18-Feb-2010 06:56

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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

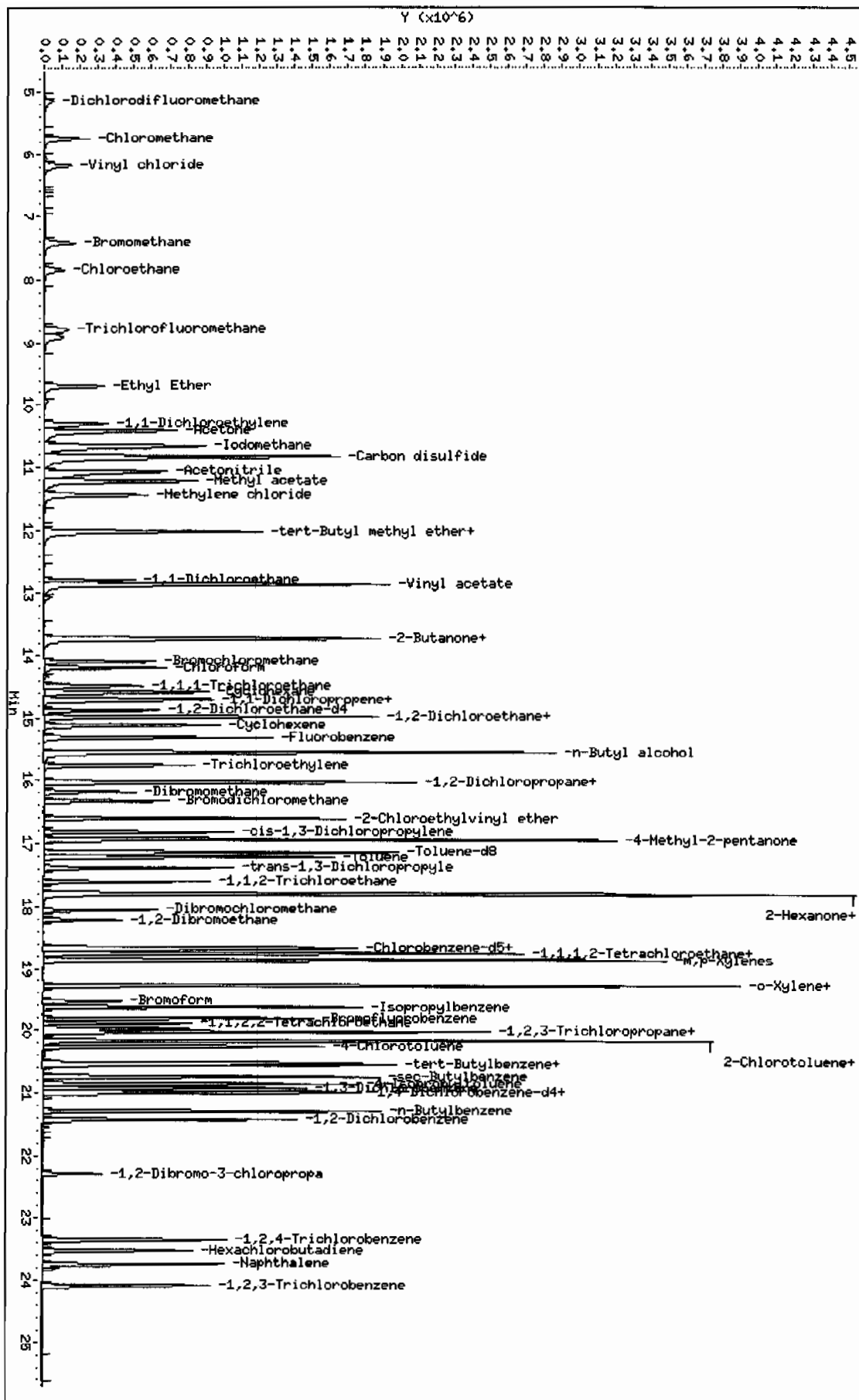
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
19 Carbon disulfide	76	10.840	10.840	(0.708)	4156596	250.000	232
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	911300	50.0000	50.2
25 trans-1,2-Dichloroethylene	61	12.027	12.017	(0.785)	496217	50.0000	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

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (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/V007.1/021710v7/72328.d
 Date: 18-FEB-2010 02:27
 Client ID: ICV
 Sample Info: 147M100217-221 ICV1.1 V007.1.1
 Purge Volume: 5.0
 Column phase: DB-624

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

/chem/V007.1/021710v7/72328.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
Maximum Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

Data File: /chem/VOA7.i/021710v7/7z329.d
Report Date: 18-Feb-2010 06:56

Page 1

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

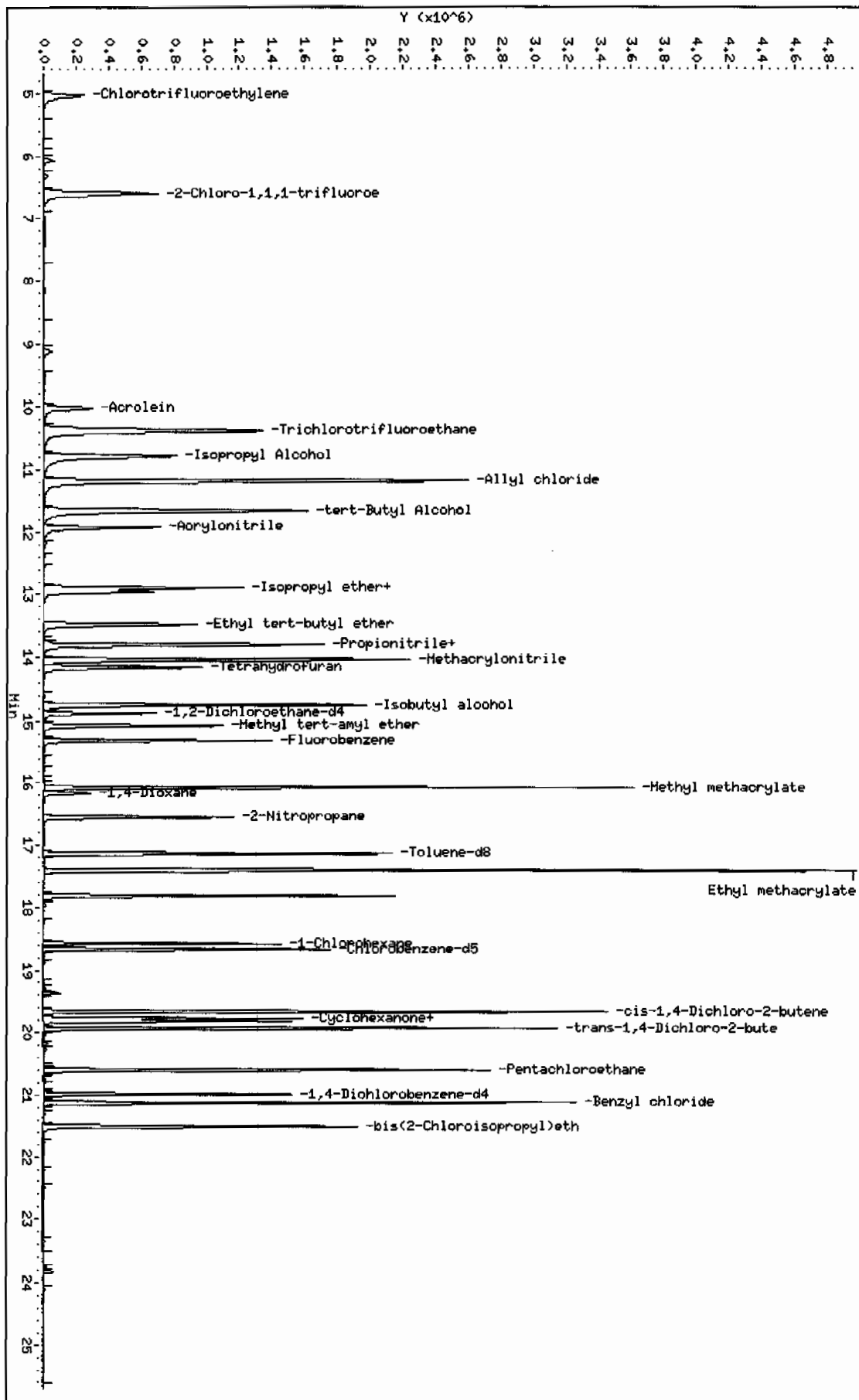
Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ug/l)	(ug/l)	
147 Chlorotrifluoroethylene	116	5.029	5.029	(0.328)	321831	150.000	119	
148 2-Chloro-1,1,1-trifluoroethane	118	6.604	6.604	(0.431)	727177	150.000	136	
11 Acrolein	56	10.017	10.017	(0.654)	403023	250.000	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	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/V007.1/021710v7/7z329.d
 Date : 18-FEB-2010 03:03
 Client ID: SICV
 Sample Info: 1M7VH000217-23SICV111V00F11
 Purge Volume: 5.0
 Column Phase: DB-624

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

/chem/V007.1/021710v7/7z329.d



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 01-MAR-2010 20:31
Lab File ID: 7b124.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100301-06 Quant Type: ISTD
Method: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 Xylenes (total)	0.64551	0.60087	0.60087	0.050	-6.91492	30.00000	Averaged
M 3 1,2-Dichloroethylene (total)	0.49511	0.45831	0.45831	0.050	-7.43267	30.00000	Averaged
M 1 1,3-Dichloropropylene	0.45215	0.45687	0.45687	0.050	1.04337	30.00000	Averaged
4 Dichlorodifluoromethane	0.15569	0.11334	0.11334	0.050	-27.20176	30.00000	Averaged
5 Chloromethane	0.46771	0.37245	0.37245	0.100	-20.36771	30.00000	Averaged spcc
6 Vinyl chloride	0.41543	0.37197	0.37197	0.050	-10.46165	20.00000	Averaged ccc
7 Bromomethane	0.23685	0.21075	0.21075	0.050	-11.02129	30.00000	Averaged
8 Chloroethane	0.21246	0.19476	0.19476	0.010	-8.32943	30.00000	Averaged
9 Trichlorofluoromethane	0.31799	0.28792	0.28792	0.050	-9.45369	30.00000	Averaged
10 Ethyl Ether	0.29582	0.27640	0.27640	0.001	-6.56446	30.00000	Averaged
13 Acetone	0.33491	0.27918	0.27918	0.050	-16.64012	40.00000	Averaged
17 Acetonitrile	0.05935	0.06492	0.06492	0.010	9.38483	30.00000	Averaged
14 1,1-Dichloroethylene	0.21744	0.19611	0.19611	0.050	-9.81192	20.00000	Averaged ccc
18 Methyl acetate	0.30971	0.27889	0.27889	0.010	-9.95001	40.00000	Averaged
16 Iodomethane	0.37891	0.36463	0.36463	0.050	-3.76945	30.00000	Averaged
22 Methylene chloride	0.20428	0.19363	0.19363	0.050	-5.21300	30.00000	Averaged
19 Carbon disulfide	0.76494	0.71455	0.71455	0.050	-6.58753	30.00000	Averaged
24 tert-Butyl methyl ether	0.77339	0.73339	0.73339	0.050	-5.17194	30.00000	Averaged
25 trans-1,2-Dichloroethylene	0.45970	0.41955	0.41955	0.050	-8.73302	30.00000	Averaged
26 Vinyl acetate	0.75971	0.68339	0.68339	0.010	-10.04613	40.00000	Averaged
28 1,1-Dichloroethane	0.59819	0.57596	0.57596	0.100	-3.71666	30.00000	Averaged spcc
31 2-Butanone	0.37353	0.31969	0.31969	0.030	-14.41454	40.00000	Averaged
33 cis-1,2-Dichloroethylene	0.53052	0.49707	0.49707	0.050	-6.30592	30.00000	Averaged
34 2,2-Dichloropropane	0.24848	0.23312	0.23312	0.050	-6.18288	30.00000	Averaged
38 Chloroform	0.49798	0.46006	0.46006	0.010	-7.61320	20.00000	Averaged ccc
37 Bromochloromethane	0.39220	0.37512	0.37512	0.010	-4.35483	30.00000	Averaged
41 1,1,1-Trichloroethane	0.34173	0.32274	0.32274	0.010	-5.55630	30.00000	Averaged
43 Cyclohexane	0.55549	0.51634	0.51634	0.010	-7.04758	30.00000	Averaged
44 1,1-Dichloropropene	0.35780	0.34134	0.34134	0.010	-4.59796	30.00000	Averaged
52 n-Butyl alcohol	0.01300	0.01398	0.01398	0.001	7.48595	40.00000	Averaged
45 Carbon tetrachloride	0.27191	0.25535	0.25535	0.010	-6.09021	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.41428	0.41428	0.010	-4.09883	30.00000	Averaged
47 1,2-Dichloroethane	0.49133	0.44783	0.44783	0.010	-8.85363	30.00000	Averaged
48 Benzene	1.09329	1.03038	1.03038	0.010	-5.75373	30.00000	Averaged
50 Cyclohexene	0.51508	0.49328	0.49328	0.010	-4.23232	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 01-MAR-2010 20:31
Lab File ID: 7b124.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100301-06 Quant Type: ISTD
Method: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
53 Trichloroethylene	0.26489	0.25785	0.25785	0.010	-2.65766	30.00000	Averaged
56 1,2-Dichloropropane	0.36406	0.35182	0.35182	0.010	-3.36250	20.00000	Averaged ccc
55 Methylcyclohexane	0.44055	0.44000	0.44000	0.010	-0.12459	30.00000	Averaged
59 Bromodichloromethane	0.39044	0.37947	0.37947	0.010	-2.81055	30.00000	Averaged
58 Dibromomethane	0.19638	0.19138	0.19138	0.010	-2.54650	30.00000	Averaged
61 2-Chloroethylvinyl ether	0.14176	0.14896	0.14896	0.010	5.08142	30.00000	Averaged
63 4-Methyl-2-pentanone	0.24607	0.20469	0.20469	0.010	-16.81623	40.00000	Averaged
62 cis-1,3-Dichloropropylene	0.47551	0.47490	0.47490	0.010	-0.12682	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.53235	1.53235	0.010	-5.83763	30.00000	Averaged
65 Toluene	0.90021	0.81261	0.81261	0.010	-9.73133	20.00000	Averaged ccc
67 trans-1,3-Dichloropropylene	0.61004	0.55289	0.55289	0.010	-9.36752	30.00000	Averaged
68 1,1,2-Trichloroethane	0.33917	0.29504	0.29504	0.010	-13.01160	30.00000	Averaged
69 2-Hexanone	0.68092	0.49866	0.49866	0.010	-26.76689	40.00000	Averaged
70 1,3-Dichloropropane	0.69553	0.63074	0.63074	0.010	-9.31647	30.00000	Averaged
71 Tetrachloroethylene	0.24878	0.22012	0.22012	0.010	-11.51985	30.00000	Averaged
72 Dibromochloromethane	0.36583	0.33455	0.33455	0.010	-8.55097	30.00000	Averaged
73 1,2-Dibromoethane	0.36785	0.32929	0.32929	0.010	-10.48157	30.00000	Averaged
76 Chlorobenzene	0.92664	0.83650	0.83650	0.300	-9.72689	30.00000	Averaged spcc
77 1,1,1,2-Tetrachloroethane	0.31932	0.30123	0.30123	0.010	-5.66379	30.00000	Averaged
78 Ethylbenzene	1.68200	1.42984	1.42984	0.010	-14.99151	20.00000	Averaged ccc
79 m,p-Xylenes	0.63299	0.58445	0.58445	0.010	-7.66714	30.00000	Averaged
80 o-Xylene	0.67056	0.63371	0.63371	0.010	-5.49479	30.00000	Averaged
81 Styrene	1.07382	1.01171	1.01171	0.010	-5.78341	30.00000	Averaged
82 Bromoform	0.47906	0.44734	0.44734	0.100	-6.62121	30.00000	Averaged spcc
83 Isopropylbenzene	3.23464	2.76495	2.76495	0.010	-14.52058	30.00000	Averaged
87 1,1,2,2-Tetrachloroethane	1.13151	0.94261	0.94261	0.300	-16.69389	30.00000	Averaged spcc
\$ 86 Bromofluorobenzene	1.31523	1.22284	1.22284	0.010	-7.02471	30.00000	Averaged
89 1,2,3-Trichloropropane	0.24620	0.20556	0.20556	0.010	-16.50475	30.00000	Averaged
90 Bromobenzene	0.75737	0.69354	0.69354	0.010	-8.42740	30.00000	Averaged
91 n-Propylbenzene	4.11235	3.46937	3.46937	0.010	-15.63515	30.00000	Averaged
93 2-Chlorotoluene	2.81550	2.47578	2.47578	0.010	-12.06597	30.00000	Averaged
92 1,3,5-Trimethylbenzene	2.67285	2.44166	2.44166	0.010	-8.64968	30.00000	Averaged
94 4-Chlorotoluene	2.52732	2.21315	2.21315	0.010	-12.43100	30.00000	Averaged
95 tert-Butylbenzene	2.42130	2.17387	2.17387	0.010	-10.21883	30.00000	Averaged
96 1,2,4-Trimethylbenzene	2.70506	2.36901	2.36901	0.010	-12.42320	30.00000	Averaged
98 sec-Butylbenzene	3.56563	3.10599	3.10599	0.010	-12.89103	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 01-MAR-2010 20:31
Lab File ID: 7b124.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100301-06 Quant Type: ISTD
Method: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 4-Isopropyltoluene	2.57723	2.35616	2.35616	0.010	-8.57758	30.00000	Averaged
100 1,3-Dichlorobenzene	1.47958	1.32143	1.32143	0.010	-10.68880	30.00000	Averaged
102 1,4-Dichlorobenzene	1.44472	1.30169	1.30169	0.010	-9.90060	30.00000	Averaged
104 n-Butylbenzene	2.98564	2.62691	2.62691	0.010	-12.01529	30.00000	Averaged
105 1,2-Dichlorobenzene	1.48620	1.34954	1.34954	0.010	-9.19549	30.00000	Averaged
107 1,2-Dibromo-3-chloropropane	44.30990	50.00000	0.16533	0.010	-11.38019	30.00000	Linear
108 1,2,4-Trichlorobenzene	0.93109	0.85454	0.85454	0.010	-8.22132	30.00000	Averaged
109 Hexachlorobutadiene	0.49991	0.43818	0.43818	0.010	-12.34756	30.00000	Averaged
110 Naphthalene	2.33792	2.10335	2.10335	0.010	-10.03297	30.00000	Averaged
111 1,2,3-Trichlorobenzene	0.86076	0.78088	0.78088	0.010	-9.28009	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.05665
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /chem/VOA7.i/030110v7/7b124.d
 Report Date: 04-Mar-2010 13:42

Page 1

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b124.d

Lab Smp Id: W7VM100301-06 Client Smp ID: VSTD050

Inj Date : 01-MAR-2010 20:31

Operator : AX01 Inst ID: VOA7.i

Smp Info : |W7VM100301-06|BFB/CCV/LCS|1|VOAF|1|

Misc Info : GEL 5mL N/A UVM100220-01B/IVM100224-01

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 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: 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

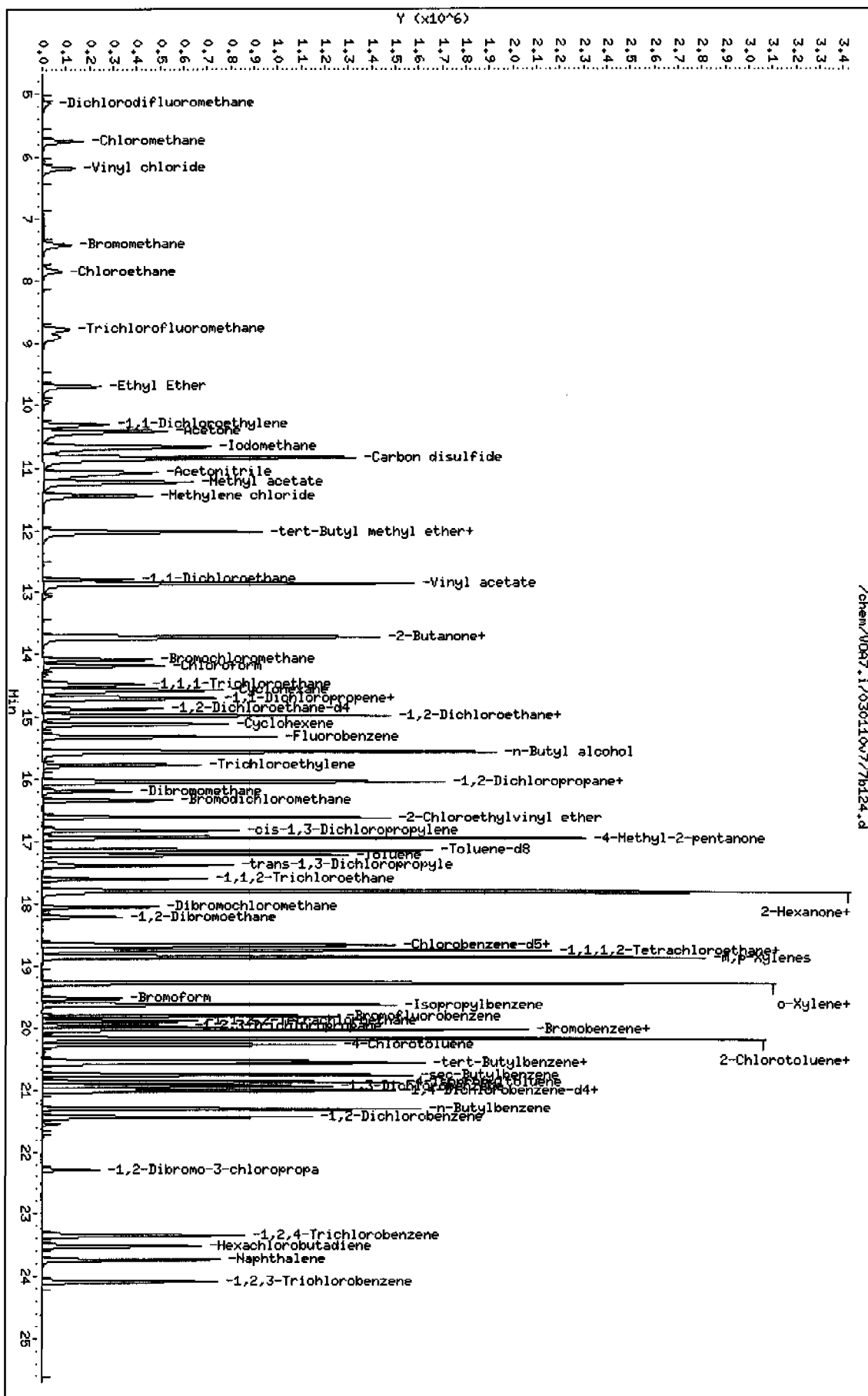
		QUANT SIG				AMOUNTS	
Compounds		MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
M 2 Xylenes (total)		106			1295545	150.000	140
M 3 1,2-Dichloroethylene (total)		96			829990	100.000	92.5
M 1 1,3-Dichloropropylene		75			827385	100.000	101
4 Dichlorodifluoromethane		85	5.147	5.147 (0.336)	102627	50.0000	36.4
5 Chloromethane		50	5.757	5.757 (0.376)	337248	50.0000	39.8
6 Vinyl chloride		62	6.187	6.187 (0.404)	336813	50.0000	44.8
7 Bromomethane		94	7.429	7.429 (0.485)	190831	50.0000	44.5
8 Chloroethane		64	7.855	7.855 (0.513)	176357	50.0000	45.8
9 Trichlorofluoromethane		101	8.789	8.789 (0.574)	260714	50.0000	45.3
10 Ethyl Ether		59	9.703	9.703 (0.633)	250280	50.0000	46.7
13 Acetone		43	10.423	10.423 (0.681)	1263991	250.000	208
17 Acetonitrile		41	11.073	11.073 (0.723)	1175721	1000.00	1090
14 1,1-Dichloroethylene		96	10.312	10.312 (0.673)	177572	50.0000	45.1
18 Methyl acetate		43	11.225	11.225 (0.733)	1262670	250.000	225
16 Iodomethane		142	10.667	10.667 (0.696)	1650834	250.000	240

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
22 Methylene chloride	86	11.449	11.449	(0.747)	175331	50.0000	47.4
19 Carbon disulfide	76	10.840	10.840	(0.708)	3235094	250.000	234
24 tert-Butyl methyl ether	73	12.017	12.017	(0.785)	664083	50.0000	47.4
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	379900	50.0000	45.6
26 Vinyl acetate	43	12.860	12.860	(0.840)	3094033	250.000	225
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	521525	50.0000	48.1
31 2-Butanone	43	13.723	13.723	(0.896)	1447378	250.000	214
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	450090	50.0000	46.8
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	211087	50.0000	46.9
38 Chloroform	83	14.190	14.190	(0.926)	416585	50.0000	46.2
37 Bromochloromethane	49	14.088	14.088	(0.920)	339668	50.0000	47.8
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	292242	50.0000	47.2
43 Cyclohexane	56	14.586	14.586	(0.952)	467543	50.0000	46.5
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	309085	50.0000	47.7
52 n-Butyl alcohol	56	15.560	15.560	(1.016)	1265501	5000.00	5370
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	231221	50.0000	47.0
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	375130	50.0000	48.0
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	405504	50.0000	45.6
48 Benzene	78	14.982	14.982	(0.978)	933005	50.0000	47.1
50 Cyclohexene	67	15.114	15.114	(0.987)	446663	50.0000	47.9
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	905494	50.0000	
53 Trichloroethylene	95	15.763	15.763	(1.029)	233486	50.0000	48.7
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	318569	50.0000	48.3
55 Methylcyclohexane	83	16.027	16.027	(1.046)	398420	50.0000	49.9
59 Bromodichloromethane	83	16.332	16.332	(1.066)	343609	50.0000	48.6
58 Dibromomethane	93	16.179	16.179	(1.056)	173289	50.0000	48.7
61 2-Chloroethylvinyl ether	63	16.606	16.606	(1.084)	674409	250.000	263
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	735545	250.000	208
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	430021	50.0000	49.9
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1101300	50.0000	47.1
65 Toluene	92	17.215	17.215	(0.922)	584024	50.0000	45.1
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	397364	50.0000	45.3
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	212046	50.0000	43.5
69 2-Hexanone	43	17.804	17.804	(0.954)	1791934	250.000	183
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	453310	50.0000	45.3
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	158200	50.0000	44.2
72 Dibromochloromethane	129	18.058	18.058	(0.967)	240439	50.0000	45.7
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	236664	50.0000	44.8
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	718701	50.0000	
76 Chlorobenzene	112	18.697	18.697	(1.002)	601195	50.0000	45.1
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	216496	50.0000	47.2
78 Ethylbenzene	91	18.758	18.758	(1.005)	1027627	50.0000	42.5
79 m,p-Xylenes	106	18.870	18.870	(1.011)	840095	100.000	92.3
80 o-Xylene	106	19.286	19.286	(1.033)	455450	50.0000	47.2
81 Styrene	104	19.286	19.286	(1.033)	727120	50.0000	47.1
82 Bromoform	173	19.540	19.540	(0.931)	161358	50.0000	46.7
83 Isopropylbenzene	105	19.631	19.631	(0.935)	997330	50.0000	42.7

						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)	340005	50.0000	41.6
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	441084	50.0000	46.5
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	74148	50.0000	41.7
90 Bromobenzene	156	20.017	20.017	(0.954)	250164	50.0000	45.8
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1251417	50.0000	42.2
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	893024	50.0000	44.0
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	880715	50.0000	45.7
94 4-Chlorotoluene	91	20.260	20.260	(0.965)	798291	50.0000	43.8
95 tert-Butylbenzene	119	20.524	20.524	(0.978)	784124	50.0000	44.9
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	854510	50.0000	43.8
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1120342	50.0000	43.6
99 4-Isopropyltoluene	119	20.859	20.859	(0.994)	849878	50.0000	45.7
100 1,3-Dichlorobenzene	146	20.930	20.930	(0.997)	476646	50.0000	44.6
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	360704	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	469524	50.0000	45.0
104 n-Butylbenzene	91	21.296	21.296	(1.014)	947536	50.0000	44.0
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	486784	50.0000	45.4
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	59634	50.0000	44.3
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	308237	50.0000	45.9
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	158055	50.0000	43.8
110 Naphthalene	128	23.743	23.743	(1.131)	758688	50.0000	45.0
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	281666	50.0000	45.4

Data File: /chem/V0A7.1/030110v7/7b124.d
 Date: 01-MAR-2010 20:31
 Client ID: VSTD050
 Sample Info: MWVH100301-061F3/CCV/LCS11V0AF1A1
 Purge Volume: 5.0
 Column Phase: DB-624

Instrument: V0A7.1
 Operator: RKD1
 Column diameter: 0.25



Data File: /chem/VOA7.i/030110v7/7b126.d
Report Date: 02-Mar-2010 06:18

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GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA7.i Injection Date: 01-MAR-2010 21:40
Lab File ID: 7b126.d Init. Cal. Date(s): 17-FEB-2010 18-FEB-2010
Analysis Type: WATER Init. Cal. Times: 16:02 00:42
Lab Sample ID: W7VM100301-08 Quant Type: ISTD
Method: /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
11 Acrolein	0.04808	0.05544	0.05544	0.001	15.32122	30.00000	Averaged
12 Trichlorotrifluoroethane	0.08737	0.07979	0.07979	0.010	-8.66931	30.00000	Averaged
20 Allyl chloride	0.47439	0.41305	0.41305	0.010	-12.93095	30.00000	Averaged
23 Acrylonitrile	0.13462	0.13309	0.13309	0.010	-1.13418	30.00000	Averaged
29 2-Chloro-1,3-butadiene	0.40803	0.44697	0.44697	0.010	9.54356	30.00000	Averaged
35 Propionitrile	0.05907	0.05308	0.05308	0.010	-10.14373	30.00000	Averaged
32 Ethyl acetate	0.40471	0.32838	0.32838	0.010	-18.85991	40.00000	Averaged
36 Methacrylonitrile	0.24530	0.21198	0.21198	0.010	-13.58357	30.00000	Averaged
39 Tetrahydrofuran	0.41916	0.32940	0.32940	0.010	-21.41446	30.00000	Averaged
42 Isobutyl alcohol	0.01791	0.01531	0.01531	0.005	-14.53842	40.00000	Averaged
54 Methyl methacrylate	0.21684	0.20891	0.20891	0.010	-3.65584	30.00000	Averaged
66 Ethyl methacrylate	0.57238	0.50240	0.50240	0.010	-12.22641	30.00000	Averaged
57 1,4-Dioxane	0.00326	0.00326	0.00326	0.001	0.10912	40.00000	Averaged
60 2-Nitropropane	0.14035	0.13443	0.13443	0.010	-4.22030	30.00000	Averaged
84 cis-1,4-Dichloro-2-butene	0.38900	0.36726	0.36726	0.010	-5.58759	30.00000	Averaged
85 Cyclohexanone	0.02826	0.04953	0.04953	0.010	75.25104	40.00000	Averaged
88 trans-1,4-Dichloro-2-butene	0.35107	0.33228	0.33228	0.010	-5.35130	30.00000	Averaged
97 Pentachloroethane	0.28176	0.36269	0.36269	0.010	28.72591	30.00000	Averaged
103 Benzyl chloride	1.23904	1.30764	1.30764	0.010	5.53643	30.00000	Averaged
106 bis(2-Chloroisopropyl)ether	0.69951	0.55138	0.55138	0.010	-21.17614	30.00000	Averaged
\$ 46 1,2-Dichloroethane-d4	0.43199	0.40626	0.40626	0.010	-5.95505	30.00000	Averaged
\$ 64 Toluene-d8	1.62735	1.55510	1.55510	0.010	-4.43921	30.00000	Averaged
\$ 86 Bromofluorobenzene	1.31523	1.20147	1.20147	0.010	-8.64997	30.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	9.05665
Maximum Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

Data File: /chem/VOA7.i/030110v7/7b126.d
 Report Date: 02-Mar-2010 06:18

Page 1

GEL Laboratories LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026
 Data file : /chem/VOA7.i/030110v7/7b126.d
 Lab Smp Id: W7VM100301-08 Client Smp ID: VSTD250S
 Inj Date : 01-MAR-2010 21:40
 Operator : AX01 Inst ID: VOA7.i
 Smp Info : |W7VM100301-08|SHORT/SLCS|1|VOAF|1|
 Misc Info : GEL 5mL N/A UVM091216-08B
 Comment :
 Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
 Meth Date : 02-Mar-2010 06:16 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 * (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	10.027	10.027	(0.655)	293890	250.000	288
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	422941	250.000	228
20 Allyl chloride	41	11.185	11.185	(0.730)	2189400	250.000	218
23 Acrylonitrile	53	11.926	11.926	(0.779)	705459	250.000	247
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	473843	50.0000	54.8
35 Propionitrile	54	13.804	13.804	(0.901)	281329	250.000	225
32 Ethyl acetate	43	13.804	13.804	(0.901)	1740604	250.000	203
36 Methacrylonitrile	41	14.037	14.037	(0.916)	1123591	250.000	216
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	639027	250.000	196
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	811526	2500.00	2140
54 Methyl methacrylate	69	16.078	16.078	(1.050)	1107336	250.000	241
66 Ethyl methacrylate	69	17.408	17.408	(0.933)	1989752	250.000	219
57 1,4-Dioxane	88	16.159	16.159	(1.055)	172936	2500.00	2500
60 2-Nitropropane	43	16.555	16.555	(1.081)	712534	250.000	239
84 cis-1,4-Dichloro-2-butene	53	19.662	19.662	(0.937)	712476	250.000	236
85 Cyclohexanone	55	19.773	19.773	(1.059)	980808	1250.00	2190

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	19.925	19.925	(0.949)	644607	250.000	237
97 Pentachloroethane	167	20.596	20.596	(0.981)	703607	250.000	322(A)
103 Benzyl chloride	91	21.123	21.123	(1.006)	2536770	250.000	264
106 bis(2-Chloroisopropyl)ether	45	21.509	21.509	(1.025)	1069650	250.000	197
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1060115	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	792106	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	387991	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	430686	50.0000	47.0
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	1231808	50.0000	47.8
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	466158	50.0000	45.7

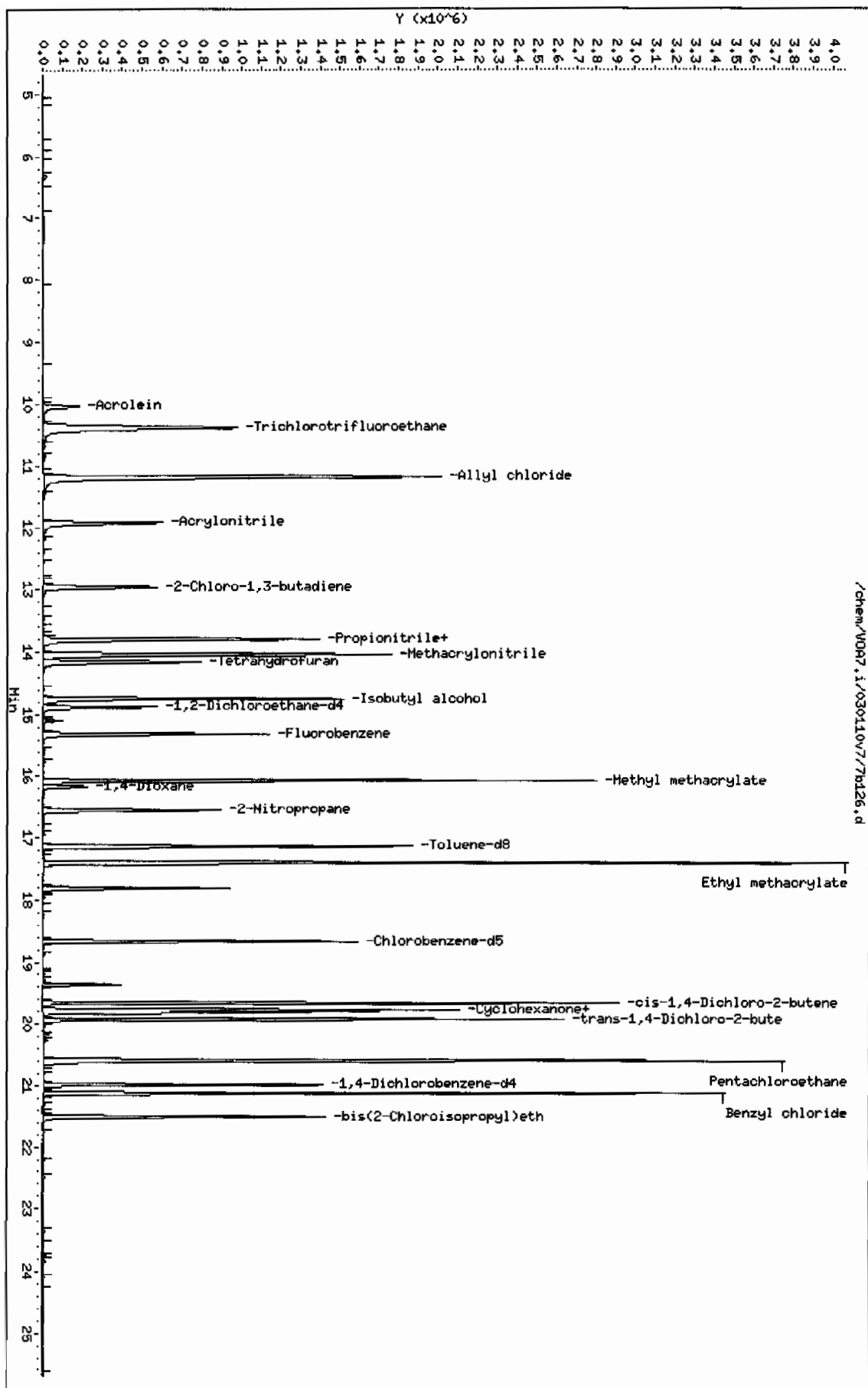
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V007.i/030110v7/7b126.d
 Date: 01-MAR-2010 21:40
 Client ID: VSTD2505
 Sample Info: 147M1400301-08|SHORT/SLCS11|V007.1|
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: V007.i
 Operator: AXD1
 Column diameter: 0.25

/chem/V007.i/030110v7/7b126.d



QC Data

Data File: /chem/VOA7.i/021710v7/7z309.d

Page 1

Date : 17-FEB-2010 16:29

Client ID: BFB01

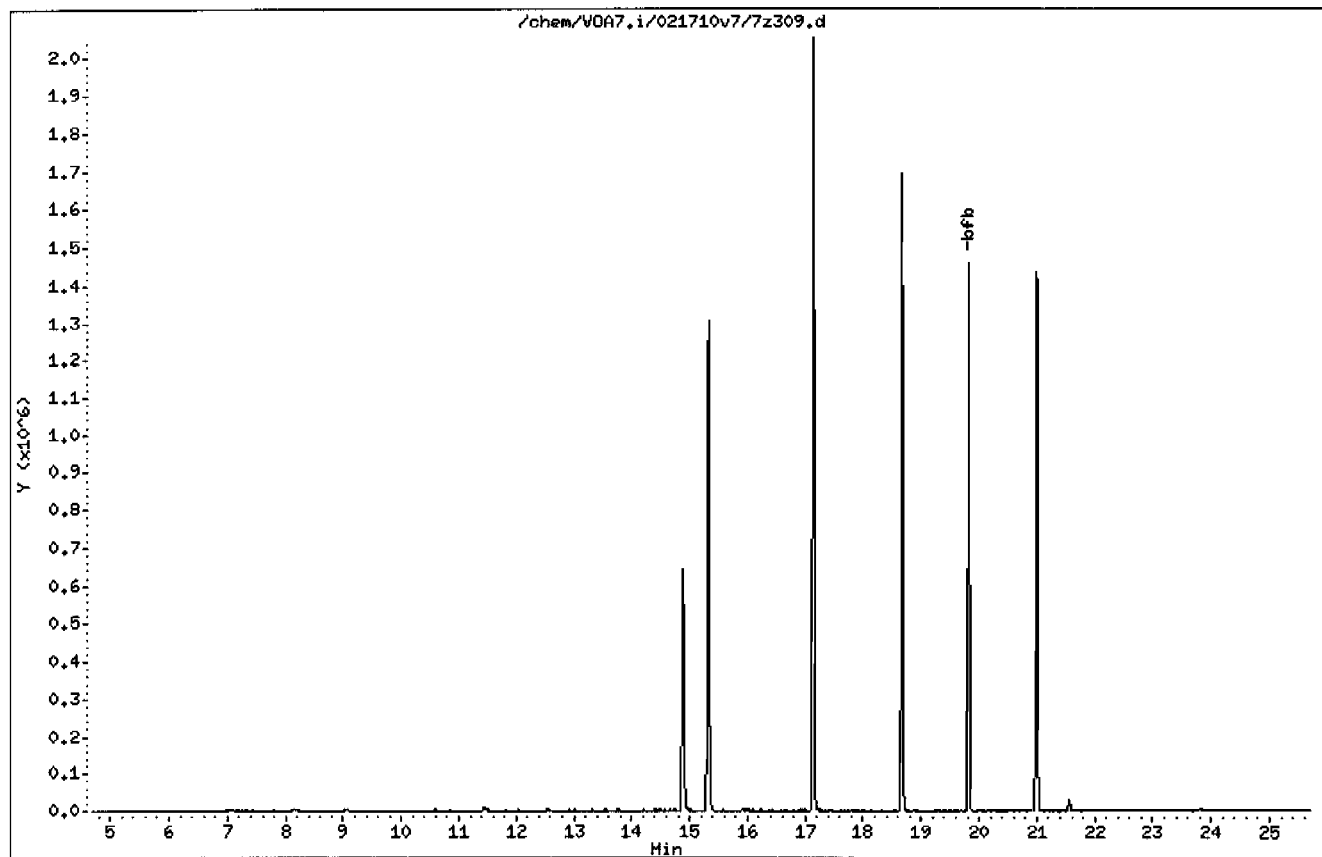
Instrument: VOA7.i

Sample Info: I120200-----IRINSE11|VOAF11|

Operator: CDS1

Column phase: db624

Column diameter: 0.25



Date: 17-FEB-2010 15:29

Client ID: BFB01

Instrument: VOA7.1

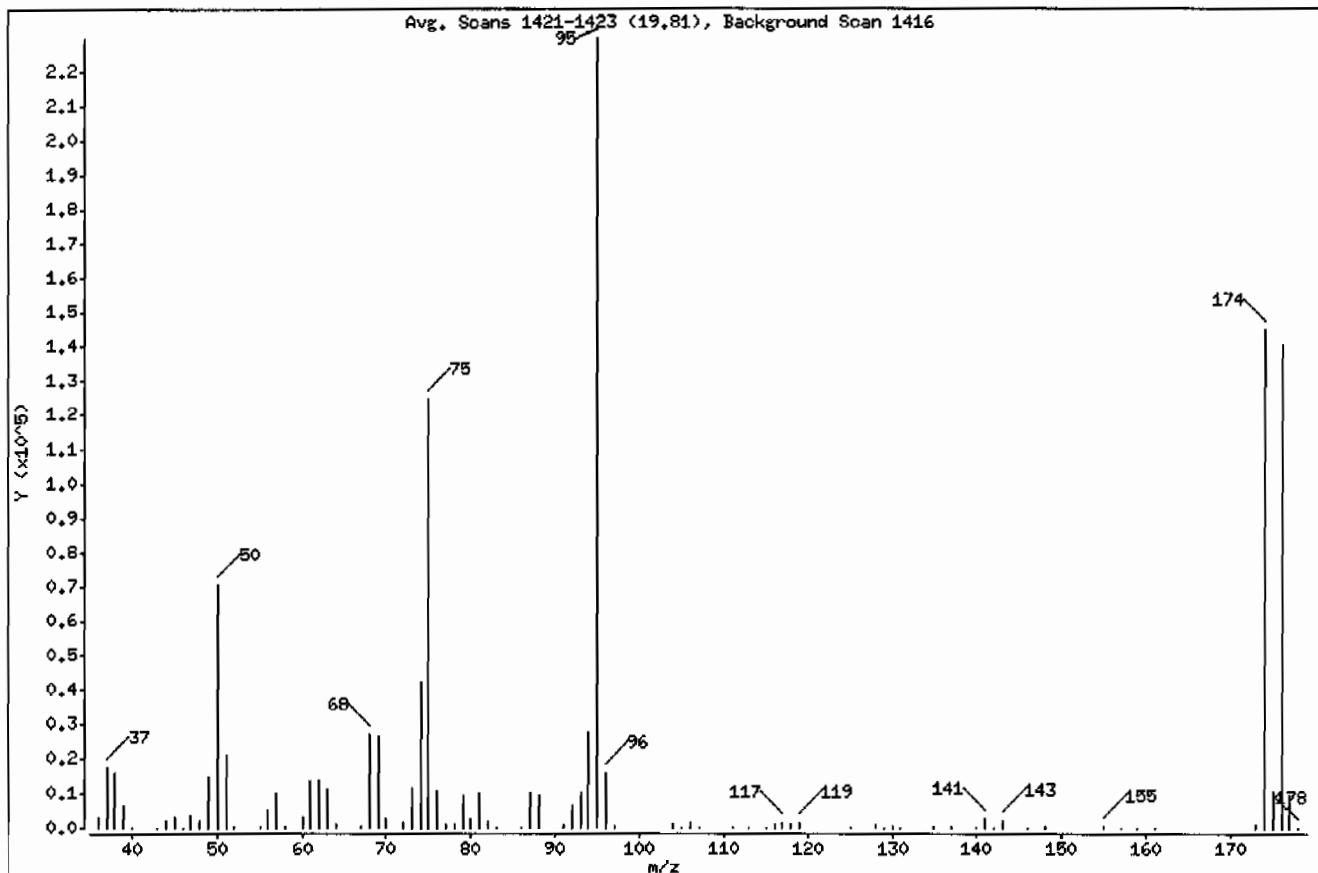
Sample Info: I120200-----IRINSEI1|VOAFI1|

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: 1120200-----IRINSE11VOAF111

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	908	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/030110v7/7b124BFB.d

Page 1

Date : 01-MAR-2010 20:31

Client ID: BFB01

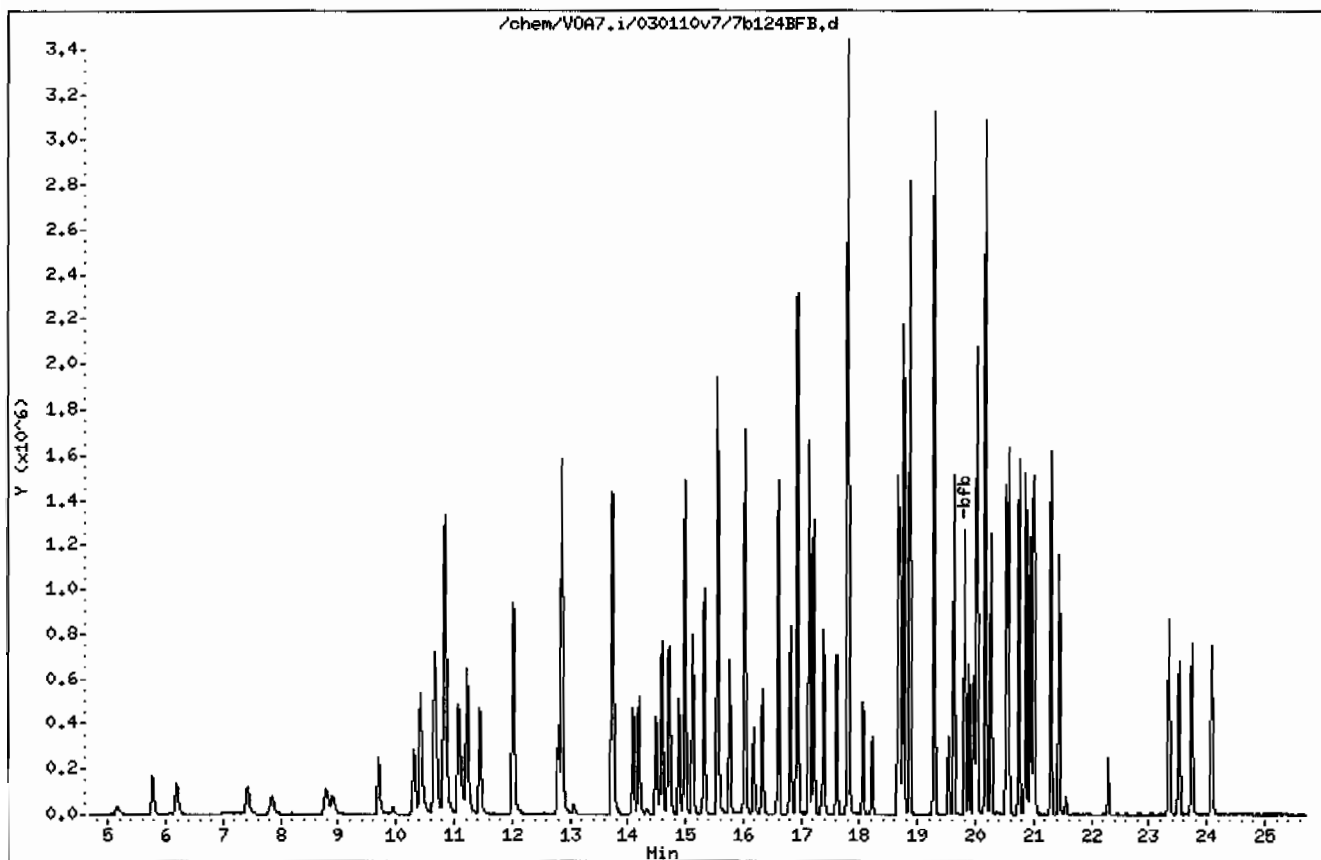
Instrument: VOA7.i

Sample Info: 1W7VM100301-061BFB/CCV/LCS111VOAF111

Operator: AX01

Column phase: db624

Column diameter: 0.25



Date : 01-MAR-2010 20:31

Client ID: BFB01

Instrument: VOA7.i

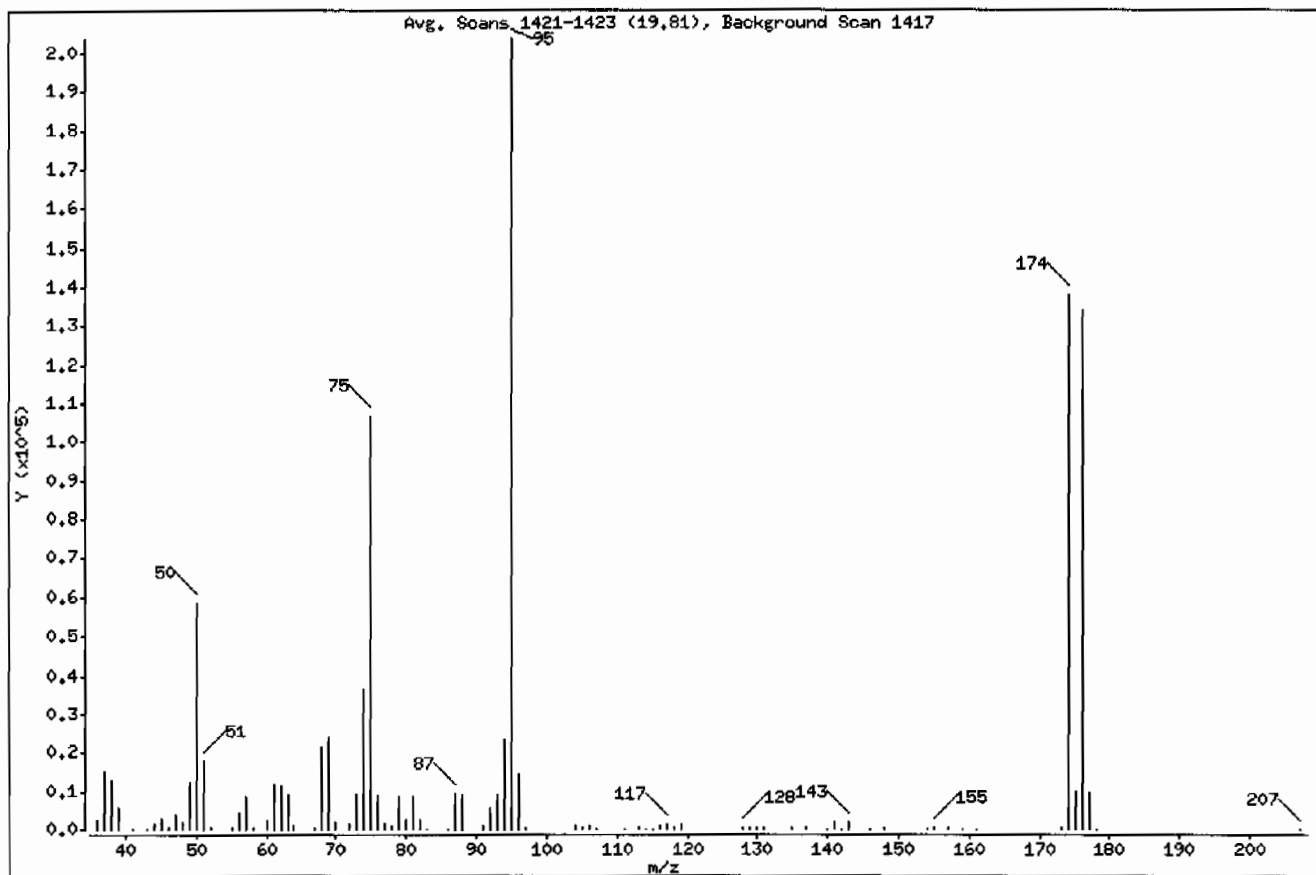
Sample Info: 1W7VM100301-061BFB/CCV/LCS111VOAF111

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	28.73
75	30.00 - 60.00% of mass 95	52.35
96	5.00 - 9.00% of mass 95	7.04
173	Less than 2.00% of mass 174	0.31 (0.46)
174	50.00 - 100.00% of mass 95	67.76
175	5.00 - 9.00% of mass 174	4.91 (7.25)
176	95.00 - 101.00% of mass 174	65.84 (97.17)
177	5.00 - 9.00% of mass 176	4.50 (6.83)

Date : 01-MAR-2010 20:31

Client ID: BFB01

Instrument: VOA7.i

Sample Info: IW7vM100301-06|BFB/CCV/LCS11|VOAF11

Operator: AX01

Column phase: db624

Column diameter: 0.25

Data File: 7b124BFB.d

Spectrum: Avg. Scans 1421-1423 (19.81), Background Scan 1417

Location of Maximum: 95.00

Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	2252	63.00	9041	92.00	5643	135.00	379
37.00	15077	64.00	795	93.00	8820	137.00	428
38.00	12770	67.00	608	94.00	23624	140.00	111
39.00	5432	68.00	21664	95.00	203648	141.00	1781
41.00	102	69.00	23880	96.00	14344	142.00	105

43.00	101	70.00	1783	97.00	422	143.00	1835
44.00	1590	72.00	1250	104.00	964	146.00	133
45.00	2766	73.00	9526	105.00	285	148.00	330
46.00	267	74.00	36376	106.00	1015	154.00	83
47.00	3816	75.00	106608	107.00	94	155.00	269

48.00	1675	76.00	8742	111.00	100	157.00	247
49.00	12200	77.00	1209	113.00	236	159.00	223
50.00	58504	78.00	922	114.00	109	161.00	135
51.00	17672	79.00	8585	115.00	196	173.00	637
52.00	688	80.00	2657	116.00	733	174.00	137984

55.00	591	81.00	8604	117.00	1269	175.00	10002
56.00	4429	82.00	2147	118.00	656	176.00	134080
57.00	8655	83.00	84	119.00	1260	177.00	9158
58.00	402	86.00	102	128.00	629	178.00	97
60.00	2390	87.00	9510	129.00	278	207.00	84

61.00	11498	88.00	8921	130.00	616		
62.00	11363	91.00	891	131.00	401		

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 1202061835
Client Sample: QC for batch 959502
Client ID: MB for batch 959502
Batch ID: 959504
Run Date: 03/01/2010 23:24
Prep Date: 03/01/2010 15:00
Data File: 7b129LL.d

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

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

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

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982
Lab Sample ID: 1202061835
Client Sample: QC for batch 959502
Client ID: MB for batch 959502
Batch ID: 959504
Run Date: 03/01/2010 23:24
Prep Date: 03/01/2010 15:00
Data File: 7b129LL.d

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

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.00	ug/kg	1.60	5.00
	<i>Trichlorotrifluoroethane</i>					
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/030110v7/7b129LL.d
Report Date: 04-Mar-2010 14:32

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b129LL.d
Lab Smp Id: 1202061835 Client Smp ID: BLANK
Inj Date : 01-MAR-2010 23:24
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202061835|959504|1|VOAF|1|
Misc Info : GEL 5g N/A
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: prdsvr07

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

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ug/l)	FINAL (ug/Kg)
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880 (0.971)	412036	52.0801	52.1
* 51 Fluorobenzene	96	15.317	15.317 (1.000)	915717	50.0000	
\$ 64 Toluene-d8	98	17.134	17.134 (0.918)	1081617	47.9745	48.0
* 75 Chlorobenzene-d5	117	18.667	18.667 (1.000)	692712	50.0000	
\$ 86 Bromofluorobenzene	95	19.814	19.814 (0.944)	408171	45.9332	45.9
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991 (1.000)	337818	50.0000	

Data File: /chem/VOA7.i/030110v7/7b129LL.d
Report Date: 04-Mar-2010 14:32

Page 2

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b129LL.d

Lab Smp Id: 1202061835

Client Smp ID: BLANK

Inj Date : 01-MAR-2010 23:24

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202061835|959504|1|VOAF|1|

Misc Info : GEL 5g N/A

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592

Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 29

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA7.i/030110v7/7b129LL.d

Date : 01-MAR-2010 23:24

Client ID: BLANK

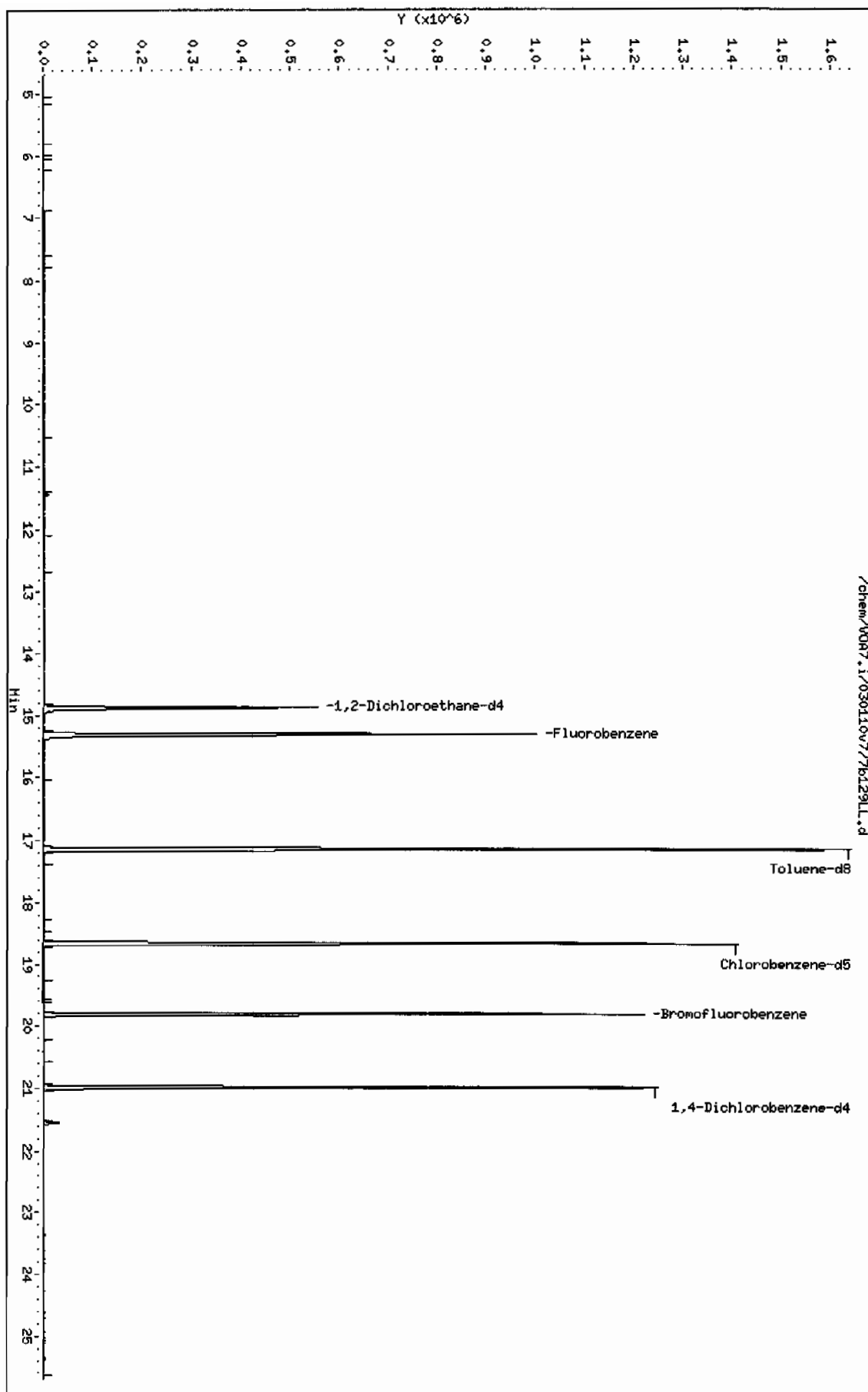
Sample Info: 11202061835195950411\VOA711

Column phase: DB-624

Instrument: VOA7.1

Operator: AX01

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982

Lab Sample ID: 1202061836

Client Sample: QC for batch 959502

Client ID: LCS for batch 959502

Batch ID: 959504

Run Date: 03/01/2010 21:05

Prep Date: 03/01/2010 15:00

Data File: 7b125LL.d

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

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		36.9	ug/kg	0.340	1.00
74-87-3	Chloromethane		40.1	ug/kg	0.300	1.00
75-01-4	Vinyl chloride		43.5	ug/kg	0.300	1.00
74-83-9	Bromomethane		46.1	ug/kg	0.300	1.00
75-00-3	Chloroethane		46.8	ug/kg	0.300	1.00
75-69-4	Trichlorofluoromethane		46.3	ug/kg	0.300	1.00
67-64-1	Acetone		219	ug/kg	1.66	5.00
75-35-4	1,1-Dichloroethylene		45.9	ug/kg	0.300	1.00
74-88-4	Iodomethane		238	ug/kg	1.60	5.00
75-09-2	Methylene chloride		47.5	ug/kg	2.00	5.00
75-15-0	Carbon disulfide		235	ug/kg	1.25	5.00
156-60-5	trans-1,2-Dichloroethylene		45.0	ug/kg	0.300	1.00
75-34-3	1,1-Dichloroethane		47.8	ug/kg	0.300	1.00
78-93-3	2-Butanone		219	ug/kg	1.50	5.00
156-59-2	cis-1,2-Dichloroethylene		45.2	ug/kg	0.300	1.00
594-20-7	2,2-Dichloropropane		44.8	ug/kg	0.300	1.00
67-66-3	Chloroform		45.5	ug/kg	0.300	1.00
74-97-5	Bromochloromethane		46.7	ug/kg	0.330	1.00
71-55-6	1,1,1-Trichloroethane		49.4	ug/kg	0.300	1.00
563-58-6	1,1-Dichloropropene		47.3	ug/kg	0.300	1.00
56-23-5	Carbon tetrachloride		46.3	ug/kg	0.300	1.00
107-06-2	1,2-Dichloroethane		44.2	ug/kg	0.300	1.00
71-43-2	Benzene		46.0	ug/kg	0.300	1.00
79-01-6	Trichloroethylene		48.4	ug/kg	0.330	1.00
78-87-5	1,2-Dichloropropane		47.1	ug/kg	0.300	1.00
75-27-4	Bromodichloromethane		48.2	ug/kg	0.300	1.00
74-95-3	Dibromomethane		48.7	ug/kg	0.300	1.00
108-10-1	4-Methyl-2-pentanone		212	ug/kg	1.25	5.00
10061-01-5	cis-1,3-Dichloropropylene		49.4	ug/kg	0.300	1.00
108-88-3	Toluene		43.6	ug/kg	0.300	1.00
10061-02-6	trans-1,3-Dichloropropylene		45.4	ug/kg	0.300	1.00
79-00-5	1,1,2-Trichloroethane		42.8	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		44.1	ug/kg	0.300	1.00
127-18-4	Tetrachloroethylene		44.1	ug/kg	0.300	1.00
124-48-1	Dibromochloromethane		45.8	ug/kg	0.300	1.00
106-93-4	1,2-Dibromoethane		44.8	ug/kg	0.300	1.00
108-90-7	Chlorobenzene		43.6	ug/kg	0.300	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982

Matrix: MISC SOLID

Lab Sample ID: 1202061836

Client Sample: QC for batch 959502

Client: LANL010

Project: QC

Client ID: LCS for batch 959502

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 959504

Inst: VOA7.I

Dilution: 1

Run Date: 03/01/2010 21:05

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/01/2010 15:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b125LL.d

Column: DB-624

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		41.1	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes		88.9	ug/kg	0.300	2.00
95-47-6	o-Xylene		45.5	ug/kg	0.300	1.00
100-42-5	Styrene		45.7	ug/kg	0.300	1.00
75-25-2	Bromoform		45.9	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane		40.9	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane		41.3	ug/kg	0.300	1.00
108-86-1	Bromobenzene		43.3	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene		39.4	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene		40.6	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene		40.5	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene		42.6	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene		40.7	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene		42.8	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene		41.7	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene		41.9	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene		43.1	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene		41.7	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene		42.9	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene		42.5	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane		44.7	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		46.8	ug/kg	0.300	1.00
95-50-1	1,2-Dichlorobenzene		42.8	ug/kg	0.300	1.00

Data File: /chem/VOA7.i/030110v7/7b125LL.d
Report Date: 04-Mar-2010 14:32

Page 1

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b125LL.d

Lab Smp Id: 1202061836

Client Smp ID: LCS

Inj Date : 01-MAR-2010 21:05

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202061836|959504|1|VOAF|1|

Misc Info : GEL 5g N/A UVM100220-01B/IVM100224-01

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 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			863379	100.741	101
M	2 Xylenes (total)	106			1311642	134.400	134
M	3 1,2-Dichloroethylene (total)	96			846639	90.1982	90.2
	4 Dichlorodifluoromethane	85	5.147	5.147 (0.336)	108963	36.9242	36.9
	5 Chloromethane	50	5.757	5.757 (0.376)	355378	40.0870	40.1
	6 Vinyl chloride	62	6.188	6.187 (0.404)	342358	43.4784	43.5
	7 Bromomethane	94	7.429	7.429 (0.485)	206765	46.0561	46.0
	8 Chloroethane	64	7.845	7.855 (0.512)	188439	46.7930	46.8
	9 Trichlorofluoromethane	101	8.799	8.789 (0.574)	279223	46.3266	46.3
	10 Ethyl Ether	59	9.703	9.703 (0.633)	263478	46.9897	47.0
	13 Acetone	43	10.413	10.423 (0.680)	1390862	219.099	219
	14 1,1-Dichloroethylene	96	10.312	10.312 (0.673)	189191	45.9037	45.9

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
16 Iodomethane		142	10.667	10.667	(0.696)	1709863	238.075	238
17 Acetonitrile		41	11.073	11.073	(0.723)	1262215	1121.99	1120
18 Methyl acetate		43	11.225	11.225	(0.733)	1368806	233.173	233
19 Carbon disulfide		76	10.840	10.840	(0.708)	3403672	234.752	235
22 Methylene chloride		86	11.449	11.449	(0.747)	184041	47.5311	47.5
24 tert-Butyl methyl ether		73	12.017	12.017	(0.785)	718682	49.0257	49.0
25 trans-1,2-Dichloroethylene		61	12.017	12.027	(0.785)	391850	44.9715	45.0
26 Vinyl acetate		43	12.860	12.860	(0.840)	3081878	214.019	214
28 1,1-Dichloroethane		63	12.799	12.799	(0.836)	542334	47.8317	47.8
31 2-Butanone		43	13.723	13.723	(0.896)	1548558	218.720	219
33 cis-1,2-Dichloroethylene		61	13.733	13.733	(0.897)	454789	45.2268	45.2
34 2,2-Dichloropropane		77	13.743	13.743	(0.897)	211093	44.8195	44.8
37 Bromochloromethane		49	14.088	14.088	(0.920)	347299	46.7181	46.7
38 Chloroform		83	14.190	14.190	(0.926)	429698	45.5242	45.5
41 1,1,1-Trichloroethane		97	14.484	14.484	(0.946)	320265	49.4439	49.4
43 Cyclohexane		56	14.586	14.586	(0.952)	483358	45.9072	45.9
44 1,1-Dichloropropene		75	14.697	14.697	(0.960)	320907	47.3186	47.3
45 Carbon tetrachloride		117	14.728	14.718	(0.962)	238772	46.3276	46.3
\$ 46 1,2-Dichloroethane-d4		65	14.880	14.880	(0.971)	408664	49.9093	49.9
47 1,2-Dichloroethane		62	14.982	14.982	(0.978)	411701	44.2078	44.2
48 Benzene		78	14.982	14.982	(0.978)	954034	46.0380	46.0
50 Cyclohexene		67	15.124	15.114	(0.987)	455118	46.6161	46.6
* 51 Fluorobenzene		96	15.317	15.317	(1.000)	947726	50.0000	
52 n-Butyl alcohol		56	15.560	15.560	(1.016)	1404390	5698.36	5700
53 Trichloroethylene		95	15.763	15.763	(1.029)	242907	48.3787	48.4
55 Methylcyclohexane		83	16.027	16.027	(1.046)	411173	49.2396	49.2
56 1,2-Dichloropropane		63	16.037	16.037	(1.047)	324855	47.0765	47.1
58 Dibromomethane		93	16.180	16.179	(1.056)	181095	48.6526	48.6
59 Bromodichloromethane		83	16.332	16.332	(1.066)	356961	48.2334	48.2
61 2-Chloroethylvinyl ether		63	16.606	16.606	(1.084)	687745	255.960	256
62 cis-1,3-Dichloropropylene		75	16.819	16.819	(1.098)	444803	49.3514	49.4
63 4-Methyl-2-pentanone		58	16.931	16.941	(0.907)	787177	211.658	212
\$ 64 Toluene-d8		98	17.134	17.134	(0.918)	1144020	46.5124	46.5
65 Toluene		92	17.215	17.215	(0.922)	592550	43.5507	43.6
67 trans-1,3-Dichloropropylene		75	17.388	17.388	(0.931)	418576	45.3976	45.4
68 1,1,2-Trichloroethane		83	17.611	17.611	(0.943)	219333	42.7857	42.8
69 2-Hexanone		43	17.794	17.804	(0.953)	1900401	184.656	185 (A)
70 1,3-Dichloropropane		76	17.794	17.794	(0.953)	463860	44.1249	44.1
71 Tetrachloroethylene		164	17.814	17.814	(0.954)	165642	44.0528	44.0
72 Dibromochloromethane		129	18.058	18.058	(0.967)	253451	45.8387	45.8
73 1,2-Dibromoethane		107	18.220	18.220	(0.976)	248833	44.7561	44.8
* 75 Chlorobenzene-d5		117	18.667	18.667	(1.000)	755709	50.0000	
76 Chlorobenzene		112	18.697	18.697	(1.002)	610422	43.5850	43.6
77 1,1,1,2-Tetrachloroethane		131	18.758	18.758	(1.005)	225627	46.7502	46.8
78 Ethylbenzene		91	18.758	18.758	(1.005)	1044584	41.0898	41.1
79 m,p-Xylenes		106	18.870	18.870	(1.011)	850726	88.9224	88.9
80 o-Xylene		106	19.286	19.286	(1.033)	460916	45.4779	45.5

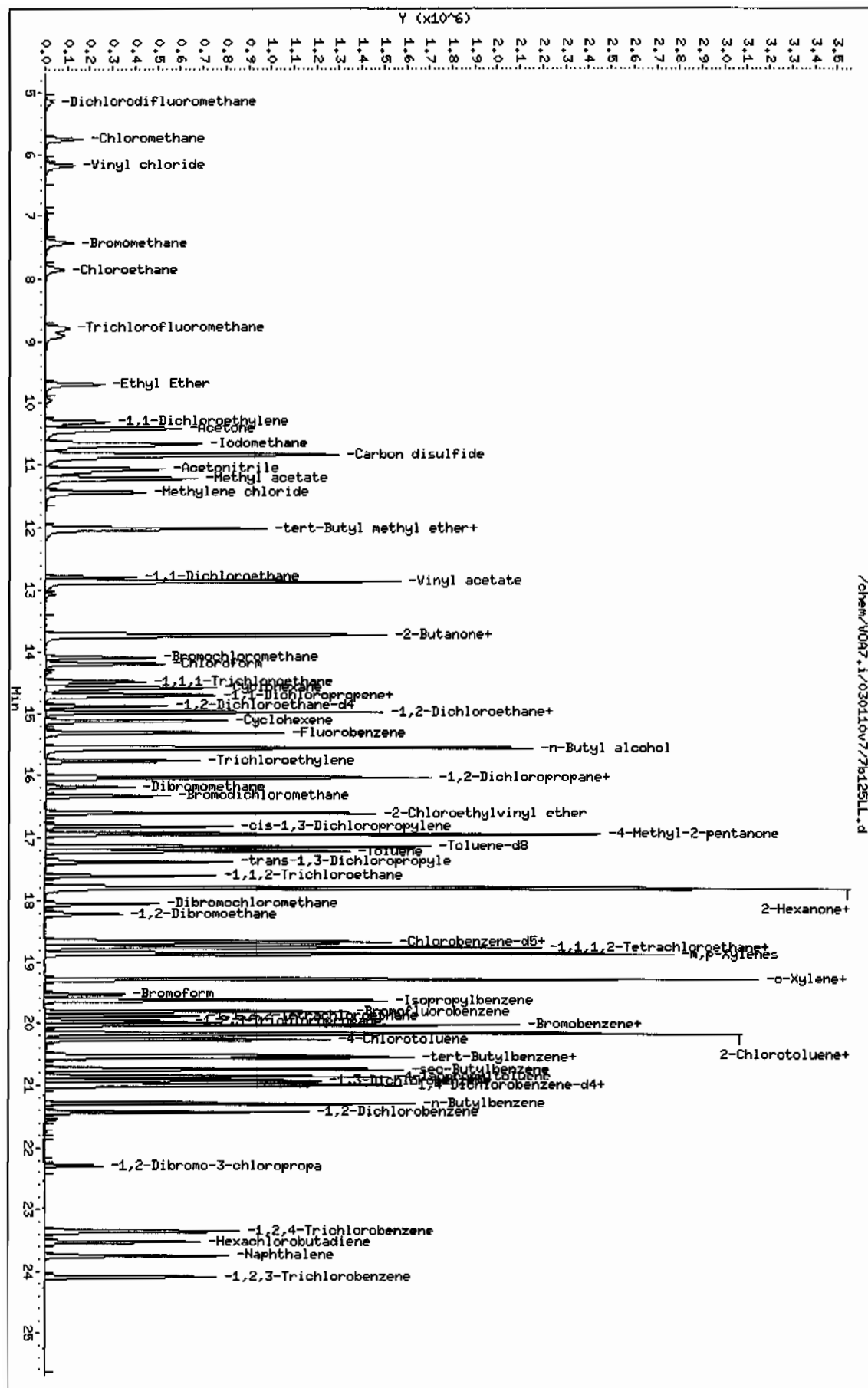
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
81 Styrene	104	19.286	19.286	(1.033)	741263	45.6728	45.7
82 Bromoform	173	19.540	19.540	(0.931)	171767	45.8968	45.9
83 Isopropylbenzene	105	19.631	19.631	(0.935)	1023385	40.4993	40.5
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	474158	46.1482	46.1
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	361305	40.8744	40.9
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	79379	41.2718	41.3
90 Bromobenzene	156	20.017	20.017	(0.954)	256414	43.3379	43.3
91 n-Propylbenzene	91	20.027	20.027	(0.954)	1264329	39.3555	39.4
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	889223	42.5864	42.6
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	892984	40.5997	40.6
94 4-Chlorotoluene	91	20.271	20.260	(0.966)	804122	40.7283	40.7
95 tert-Butylbenzene	119	20.524	20.524	(0.978)	809413	42.7914	42.8
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	882036	41.7392	41.7
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	1166893	41.8918	41.9
99 4-Isopropyltoluene	119	20.860	20.859	(0.994)	866998	43.0625	43.1
100 1,3-Dichlorobenzene	146	20.931	20.930	(0.997)	482102	41.7094	41.7
* 101 1,4-Dichlorobenzene-d4	152	20.991	20.991	(1.000)	390603	50.0000	
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	484471	42.9257	42.9
104 n-Butylbenzene	91	21.296	21.296	(1.014)	990458	42.4652	42.5
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	497189	42.8231	42.8
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	65089	44.6528	44.6
108 1,2,4-Trichlorobenzene	180	23.357	23.357	(1.113)	315973	43.4403	43.4
109 Hexachlorobutadiene	225	23.529	23.529	(1.121)	164193	42.0432	42.0
110 Naphthalene	128	23.743	23.743	(1.131)	800719	43.8415	43.8
111 1,2,3-Trichlorobenzene	180	24.088	24.088	(1.147)	294894	43.8550	43.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V0A7.1/030110v7/7b12SL.d
 Date : 01-MAR-2010 21:05
 Client ID: LCS
 Sample Info: 11202061836199930411V0A7111
 Column phase: DB-624

Instrument: V0A7.1
 Operator: AXD1
 Column diameter: 0.25



**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 10-1982

Matrix: MISC SOLID

Lab Sample ID: 1202061837

Client Sample: QC for batch 959502

Client: LANL010

Project: QC

Client ID: LCS for batch 959502

Method: SW846 8260B

SOP Ref: GL-OA-E-038

Batch ID: 959504

Inst: VOA7.I

Dilution: 1

Run Date: 03/01/2010 22:15

Analyst: AXO1

Purge Vol: 5 mL

Prep Date: 03/01/2010 15:00

Aliquot: 5 g

Final Volume: 5 mL

Data File: 7b127LL.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: 10-1982
 Lab Sample ID: 1202061837
 Client Sample: QC for batch 959502
 Client ID: LCS for batch 959502
 Batch ID: 959504
 Run Date: 03/01/2010 22:15
 Prep Date: 03/01/2010 15:00
 Data File: 7b127LL.d

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

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene	U	1.00	ug/kg	0.300	1.00
179601-23-1	m,p-Xylenes	U	2.00	ug/kg	0.300	2.00
95-47-6	o-Xylene	U	1.00	ug/kg	0.300	1.00
100-42-5	Styrene	U	1.00	ug/kg	0.300	1.00
75-25-2	Bromoform	U	1.00	ug/kg	0.300	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/kg	0.300	1.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/kg	0.300	1.00
108-86-1	Bromobenzene	U	1.00	ug/kg	0.300	1.00
103-65-1	n-Propylbenzene	U	1.00	ug/kg	0.300	1.00
95-49-8	2-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-82-8	Isopropylbenzene	U	1.00	ug/kg	0.300	1.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
106-43-4	4-Chlorotoluene	U	1.00	ug/kg	0.300	1.00
98-06-6	tert-Butylbenzene	U	1.00	ug/kg	0.300	1.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/kg	0.300	1.00
135-98-8	sec-Butylbenzene	U	1.00	ug/kg	0.300	1.00
99-87-6	4-Isopropyltoluene	U	1.00	ug/kg	0.300	1.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/kg	0.300	1.00
104-51-8	n-Butylbenzene	U	1.00	ug/kg	0.300	1.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/kg	0.300	1.00
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		226	ug/kg	1.60	5.00
	<i>Trichlorotrifluoroethane</i>					
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/030110v7/7b127LL.d
Report Date: 04-Mar-2010 14:32

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b127LL.d

Lab Smp Id: 1202061837

Client Smp ID: SLCS

Inj Date : 01-MAR-2010 22:15

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202061837|959504|1|VOAF|1|

Misc Info : GEL 5g N/A UVM091216-08B

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 27

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: prdsvr07

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

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

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	=====	==	=====	=====	=====		(ug/l)	(ug/Kg)
11 Acrolein	56	10.017	10.027	(0.654)	316229		307.921	308
12 Trichlorotrifluoroethane	85	10.373	10.373	(0.677)	422196		226.237	226
20 Allyl chloride	41	11.185	11.185	(0.730)	2162157		213.373	213
23 Acrylonitrile	53	11.926	11.926	(0.779)	749465		260.638	261
29 2-Chloro-1,3-butadiene	53	12.961	12.961	(0.846)	480047		55.0781	55.1
32 Ethyl acetate	43	13.804	13.804	(0.901)	1848681		213.851	214
35 Propionitrile	54	13.804	13.804	(0.901)	313547		248.513	248
36 Methacrylonitrile	41	14.038	14.037	(0.916)	1169271		223.160	223
39 Tetrahydrofuran	42	14.159	14.159	(0.675)	679801		211.507	212
42 Isobutyl alcohol	41	14.748	14.748	(0.963)	901584		2356.07	2360
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	448808		48.6383	48.6
* 51 Fluorobenzene	96	15.317	15.317	(1.000)	1068022		50.0000	

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS						ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====		=====	=====	=====	=====	=====	=====
54 Methyl methacrylate	69		16.078	16.078	(1.050)	1172401	253.125	253
57 1,4-Dioxane	88		16.159	16.159	(1.055)	183675	2638.46	2640
60 2-Nitropropane	43		16.555	16.555	(1.081)	756185	252.237	252
\$ 64 Toluene-d8	98		17.134	17.134	(0.918)	1220451	47.1834	47.2
66 Ethyl methacrylate	69		17.408	17.408	(0.933)	2042835	224.544	224
* 75 Chlorobenzene-d5	117		18.667	18.667	(1.000)	794732	50.0000	
84 cis-1,4-Dichloro-2-butene	53		19.662	19.662	(0.937)	729007	244.405	244
85 Cyclohexanone	55		19.773	19.773	(1.059)	1087469	2420.84	2420 (AR)
\$ 86 Bromofluorobenzene	95		19.814	19.814	(0.944)	467539	46.3600	46.4
88 trans-1,4-Dichloro-2-butene	53		19.926	19.925	(0.949)	663781	246.584	246
97 Pentachloroethane	167		20.596	20.596	(0.981)	577075	267.109	267 (A)
* 101 1,4-Dichlorobenzene-d4	152		20.992	20.991	(1.000)	383391	50.0000	
103 Benzyl chloride	91		21.124	21.123	(1.006)	2485685	261.630	262
106 bis(2-Chloroisopropyl)ether	45		21.509	21.509	(1.025)	1171538	218.420	218

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

Data File: /chem/VOA7.i/030110v7/7b127LL.d

Date : 01-MAR-2010 22:15

Client ID: SLCS

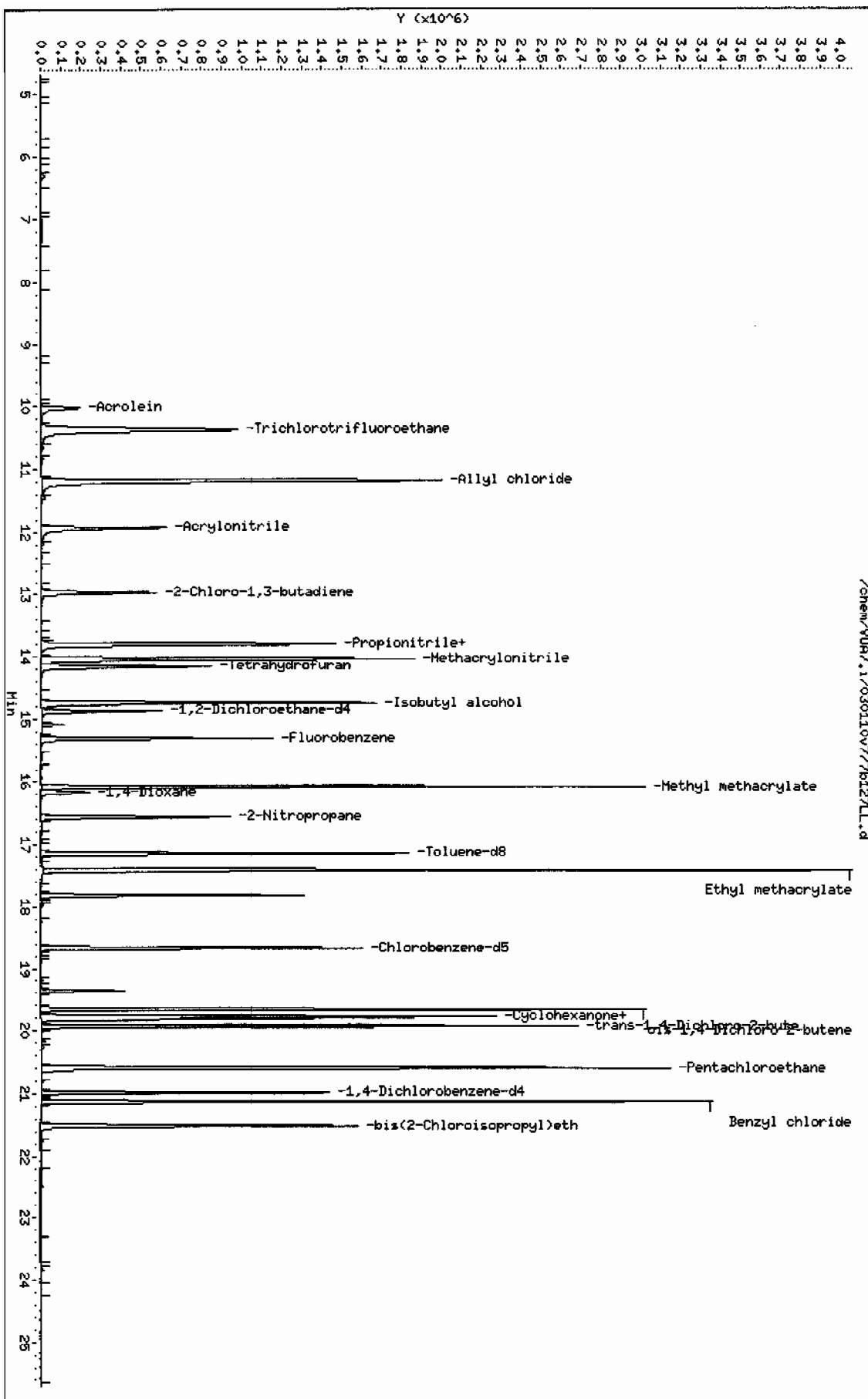
Sample Info: 11202061837195950411VOAF11

Column phase: DB-624

Instrument: VOA7.i

Operator: RXD1

Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202057919	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 959502	Client: LANL010	Project: QC
Client ID: RE15-10-8317PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 05:51	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b140.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		31.8	ug/kg	0.363	1.07
74-87-3	Chloromethane		37.6	ug/kg	0.320	1.07
75-01-4	Vinyl chloride		43.7	ug/kg	0.320	1.07
74-83-9	Bromomethane		41.3	ug/kg	0.320	1.07
75-00-3	Chloroethane		40.8	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane		37.3	ug/kg	0.320	1.07
67-64-1	Acetone		148	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene		39.5	ug/kg	0.320	1.07
74-88-4	Iodomethane		211	ug/kg	1.71	5.34
75-09-2	Methylene chloride		40.0	ug/kg	2.14	5.34
75-15-0	Carbon disulfide		210	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene		37.5	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane		41.0	ug/kg	0.320	1.07
78-93-3	2-Butanone		179	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene		39.2	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane		34.8	ug/kg	0.320	1.07
67-66-3	Chloroform		39.0	ug/kg	0.320	1.07
74-97-5	Bromochloromethane		43.2	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane		40.0	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene		39.5	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride		37.2	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane		38.2	ug/kg	0.320	1.07
71-43-2	Benzene		40.9	ug/kg	0.320	1.07
79-01-6	Trichloroethylene		42.4	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane		42.0	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane		41.8	ug/kg	0.320	1.07
74-95-3	Dibromomethane		43.7	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone		200	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene		41.8	ug/kg	0.320	1.07
108-88-3	Toluene		37.0	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene		37.3	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane		38.6	ug/kg	0.320	1.07
591-78-6	2-Hexanone	E	166	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane		40.5	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene		36.4	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane		40.4	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane		41.4	ug/kg	0.320	1.07
108-90-7	Chlorobenzene		37.7	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202057919	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 959502	Client: LANL010	Project: QC
Client ID: RE15-10-8317PS	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 05:51	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:24	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b140.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		36.0	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes		77.3	ug/kg	0.320	2.14
95-47-6	o-Xylene		40.0	ug/kg	0.320	1.07
100-42-5	Styrene		41.0	ug/kg	0.320	1.07
75-25-2	Bromoform		40.1	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane		37.0	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane		38.0	ug/kg	0.320	1.07
108-86-1	Bromobenzene		37.1	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene		33.1	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene		35.1	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene		33.4	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene		35.0	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene		33.1	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene		36.1	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene		34.9	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene		35.1	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene		35.7	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene		35.8	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene		35.9	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene		34.0	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane		43.8	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		40.3	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene		37.5	ug/kg	0.320	1.07

Data File: /chem/VOA7.i/030110v7/7b140.d
Report Date: 08-Mar-2010 12:57

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GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b140.d

Lab Smp Id: 1202057919

Client Smp ID: RE15-10-8317MS

Inj Date : 02-MAR-2010 05:51

Operator : AX01

Inst ID: VOA7.i

Smp Info : |1202057919|959504|1|VOAF|1|

Misc Info : LANL 5g N/A MS 247791002

Comment :

Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m

Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD

Cal Date : 18-FEB-2010 00:08

Cal File: 7z324.d

Als bottle: 40

QC Sample: MS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10-1982.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	6.34340	% 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)	754205	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	614099	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	330389	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	306943	47.1049	50.3
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	904142	45.2364	48.3
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	359575	41.3743	44.2
4 Dichlorodifluoromethane	85	5.148	5.147	(0.336)	69942	29.7827	31.8
5 Chloromethane	50	5.757	5.757	(0.376)	248607	35.2387	37.6
6 Vinyl chloride	62	6.188	6.187	(0.404)	256724	40.9688	43.7
7 Bromomethane	94	7.429	7.429	(0.485)	138299	38.7099	41.3
8 Chloroethane	64	7.855	7.855	(0.513)	122572	38.2468	40.8
9 Trichlorofluoromethane	101	8.789	8.789	(0.574)	167648	34.9519	37.3

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)
13 Acetone	43	10.423	10.423	(0.681)	700575	138.677	148
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	121431	37.0229	39.5
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	321349	33.6617	35.9
16 Iodomethane	142	10.667	10.667	(0.696)	1127410	197.255	211
22 Methylene chloride	86	11.449	11.449	(0.747)	115535	37.4947	40.0
19 Carbon disulfide	76	10.840	10.840	(0.708)	2267461	196.514	210
25 trans-1,2-Dichloroethylene	61	12.027	12.027	(0.785)	243614	35.1328	37.5
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	346074	38.3540	41.0
31 2-Butanone	43	13.723	13.723	(0.896)	942092	167.204	178
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	293435	36.6683	39.2
100 1,3-Dichlorobenzene	146	20.931	20.930	(0.997)	327590	33.5070	35.8
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	122208	32.6052	34.8
38 Chloroform	83	14.190	14.190	(0.926)	274697	36.5701	39.0
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	344540	35.0838	37.5
37 Bromochloromethane	49	14.088	14.088	(0.920)	239631	40.5058	43.2
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	193030	37.4474	40.0
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	199628	36.9886	39.5
45 Carbon tetrachloride	117	14.718	14.718	(0.961)	142974	34.8583	37.2
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	265072	35.7663	38.2
48 Benzene	78	14.982	14.982	(0.978)	631983	38.3223	40.9
53 Trichloroethylene	95	15.773	15.763	(1.030)	158843	39.7535	42.4
56 1,2-Dichloropropane	63	16.037	16.037	(1.047)	215764	39.2905	42.0
59 Bromodichloromethane	83	16.332	16.332	(1.066)	230734	39.1771	41.8
58 Dibromomethane	93	16.180	16.179	(1.056)	121252	40.9337	43.7
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	565987	187.278	200
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	281103	39.1914	41.8
65 Toluene	92	17.215	17.215	(0.922)	383313	34.6689	37.0
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	262067	34.9774	37.3
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	150553	36.1410	38.6
69 2-Hexanone	43	17.794	17.804	(0.953)	1301678	155.646	166(A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	323945	37.9214	40.5
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	104241	34.1160	36.4
72 Dibromochloromethane	129	18.058	18.058	(0.967)	170029	37.8423	40.4
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	175065	38.7489	41.4
76 Chlorobenzene	112	18.697	18.697	(1.002)	402369	35.3547	37.7
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	148052	37.7505	40.3
78 Ethylbenzene	91	18.758	18.758	(1.005)	696270	33.7042	36.0
79 m,p-Xylenes	106	18.870	18.870	(1.011)	562579	72.3638	77.3
80 o-Xylene	106	19.286	19.286	(1.033)	308337	37.4387	40.0
81 Styrene	104	19.286	19.286	(1.033)	506338	38.3921	41.0
82 Bromoform	173	19.540	19.540	(0.931)	118796	37.5280	40.1
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	259101	34.6542	37.0
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	57969	35.6331	38.0
90 Bromobenzene	156	20.017	20.017	(0.954)	174031	34.7746	37.1
91 n-Propylbenzene	91	20.027	20.027	(0.954)	841430	30.9651	33.1
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	612047	32.8983	35.1
83 Isopropylbenzene	105	19.631	19.631	(0.935)	668994	31.2997	33.4

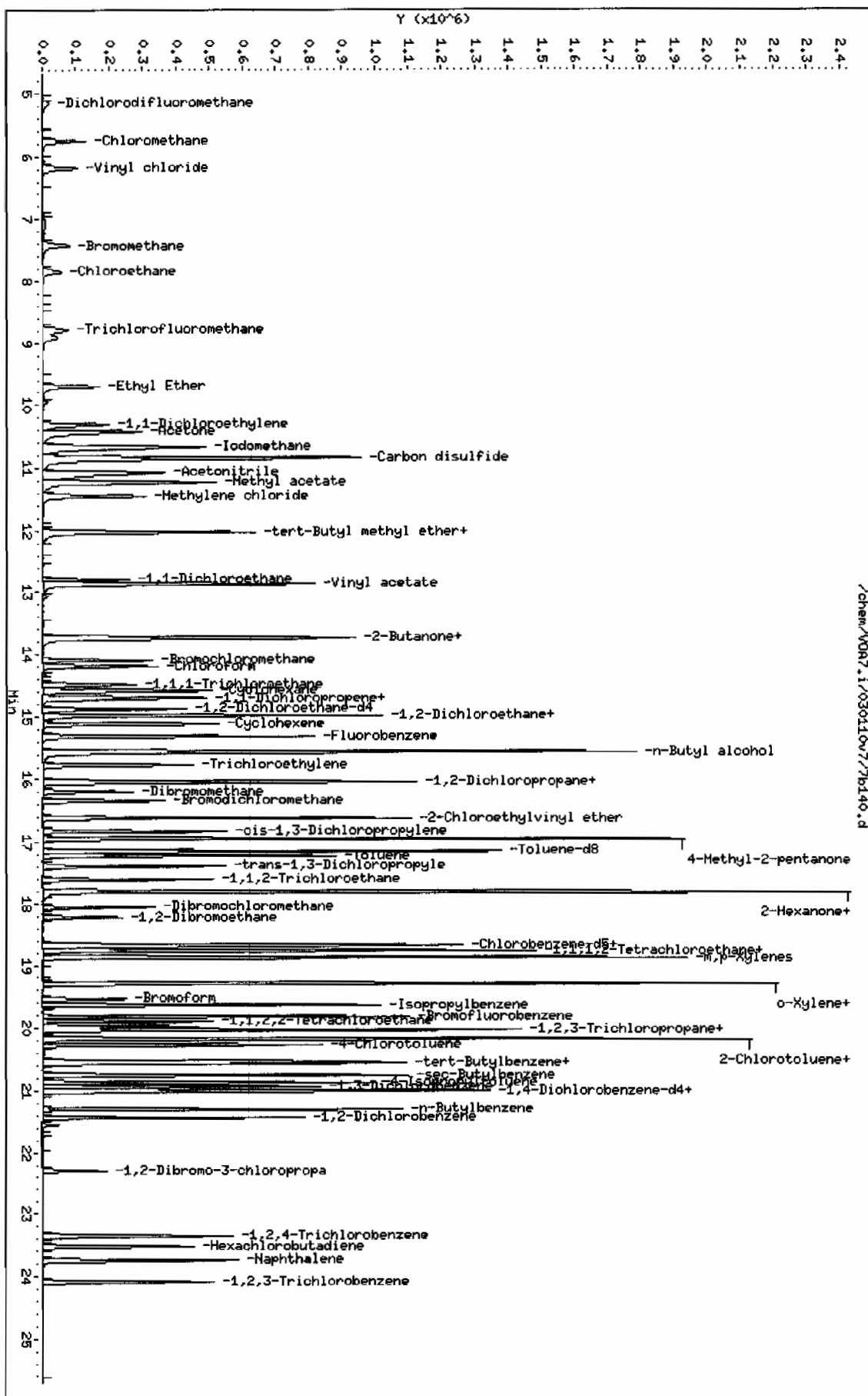
Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/l)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====	
92 1,3,5-Trimethylbenzene	105	20.169	20.169	(0.961)	578467	32.7528	35.0	
94 4-Chlorotoluene	91	20.271	20.260	(0.966)	517521	30.9894	33.1	
95 tert-Butylbenzene	119	20.525	20.524	(0.978)	540947	33.8104	36.1	
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	583428	32.6403	34.8	
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	774654	32.8788	35.1	
99 4-Isopropyltoluene	119	20.860	20.859	(0.994)	569444	33.4382	35.7	
104 n-Butylbenzene	91	21.296	21.296	(1.014)	628097	31.8371	34.0	
107 1,2-Dibromo-3-chloropropane	157	22.301	22.291	(1.062)	50466	41.0184	43.8	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V0047.i/030110v7/7b140.d
 Date: 02-MAR-2010 05:51
 Client ID: RE15-10-8317MS
 Sample Info: 11202057919195950411V0047111
 Column phase: DB-624

Instrument: V0047.1
 Operator: AXD1
 Column diameter: 0.25



Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202057920	Date Received: 02/23/2010 08:50	% Moisture: 6.3
Client Sample: QC for batch 959502	Client: LANL010	Project: QC
Client ID: RE15-10-8317PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 06:24	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:26	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b141.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
75-71-8	Dichlorodifluoromethane		32.6	ug/kg	0.363	1.07
74-87-3	Chloromethane		38.0	ug/kg	0.320	1.07
75-01-4	Vinyl chloride		41.7	ug/kg	0.320	1.07
74-83-9	Bromomethane		41.2	ug/kg	0.320	1.07
75-00-3	Chloroethane		40.7	ug/kg	0.320	1.07
75-69-4	Trichlorofluoromethane		38.1	ug/kg	0.320	1.07
67-64-1	Acetone		172	ug/kg	1.77	5.34
75-35-4	1,1-Dichloroethylene		40.2	ug/kg	0.320	1.07
74-88-4	Iodomethane		215	ug/kg	1.71	5.34
75-09-2	Methylene chloride		43.1	ug/kg	2.14	5.34
75-15-0	Carbon disulfide		210	ug/kg	1.33	5.34
156-60-5	trans-1,2-Dichloroethylene		39.7	ug/kg	0.320	1.07
75-34-3	1,1-Dichloroethane		42.7	ug/kg	0.320	1.07
78-93-3	2-Butanone		196	ug/kg	1.60	5.34
156-59-2	cis-1,2-Dichloroethylene		40.3	ug/kg	0.320	1.07
594-20-7	2,2-Dichloropropane		35.3	ug/kg	0.320	1.07
67-66-3	Chloroform		40.2	ug/kg	0.320	1.07
74-97-5	Bromochloromethane		45.3	ug/kg	0.352	1.07
71-55-6	1,1,1-Trichloroethane		39.9	ug/kg	0.320	1.07
563-58-6	1,1-Dichloropropene		40.0	ug/kg	0.320	1.07
56-23-5	Carbon tetrachloride		38.8	ug/kg	0.320	1.07
107-06-2	1,2-Dichloroethane		42.1	ug/kg	0.320	1.07
71-43-2	Benzene		41.8	ug/kg	0.320	1.07
79-01-6	Trichloroethylene		42.2	ug/kg	0.352	1.07
78-87-5	1,2-Dichloropropane		44.6	ug/kg	0.320	1.07
75-27-4	Bromodichloromethane		43.2	ug/kg	0.320	1.07
74-95-3	Dibromomethane		46.9	ug/kg	0.320	1.07
108-10-1	4-Methyl-2-pentanone		214	ug/kg	1.33	5.34
10061-01-5	cis-1,3-Dichloropropylene		44.3	ug/kg	0.320	1.07
108-88-3	Toluene		37.9	ug/kg	0.320	1.07
10061-02-6	trans-1,3-Dichloropropylene		40.2	ug/kg	0.320	1.07
79-00-5	1,1,2-Trichloroethane		42.0	ug/kg	0.320	1.07
591-78-6	2-Hexanone	E	172	ug/kg	1.60	5.34
142-28-9	1,3-Dichloropropane		43.3	ug/kg	0.320	1.07
127-18-4	Tetrachloroethylene		36.2	ug/kg	0.320	1.07
124-48-1	Dibromochloromethane		42.3	ug/kg	0.320	1.07
106-93-4	1,2-Dibromoethane		43.4	ug/kg	0.320	1.07
108-90-7	Chlorobenzene		39.4	ug/kg	0.320	1.07

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202057920	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 959502	Client: LANL010	Project: QC
Client ID: RE15-10-8317PSD	Method: SW846 8260B	SOP Ref: GL-OA-E-038
Batch ID: 959504	Inst: VOA7.I	Dilution: 1
Run Date: 03/02/2010 06:24	Analyst: AXO1	Purge Vol: 5 mL
Prep Date: 03/01/2010 15:26	Aliquot: 5 g	Final Volume: 5 mL
Data File: 7b141.d	Column: DB-624	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
100-41-4	Ethylbenzene		36.5	ug/kg	0.320	1.07
179601-23-1	m,p-Xylenes		78.6	ug/kg	0.320	2.14
95-47-6	o-Xylene		40.6	ug/kg	0.320	1.07
100-42-5	Styrene		42.0	ug/kg	0.320	1.07
75-25-2	Bromoform		44.1	ug/kg	0.320	1.07
79-34-5	1,1,2,2-Tetrachloroethane		40.7	ug/kg	0.320	1.07
96-18-4	1,2,3-Trichloropropane		41.6	ug/kg	0.320	1.07
108-86-1	Bromobenzene		39.7	ug/kg	0.320	1.07
103-65-1	n-Propylbenzene		33.9	ug/kg	0.320	1.07
95-49-8	2-Chlorotoluene		36.6	ug/kg	0.320	1.07
98-82-8	Isopropylbenzene		34.7	ug/kg	0.320	1.07
108-67-8	1,3,5-Trimethylbenzene		37.0	ug/kg	0.320	1.07
106-43-4	4-Chlorotoluene		34.3	ug/kg	0.320	1.07
98-06-6	tert-Butylbenzene		37.0	ug/kg	0.320	1.07
95-63-6	1,2,4-Trimethylbenzene		36.3	ug/kg	0.320	1.07
135-98-8	sec-Butylbenzene		35.6	ug/kg	0.320	1.07
99-87-6	4-Isopropyltoluene		36.7	ug/kg	0.320	1.07
541-73-1	1,3-Dichlorobenzene		37.2	ug/kg	0.320	1.07
106-46-7	1,4-Dichlorobenzene		38.0	ug/kg	0.320	1.07
104-51-8	n-Butylbenzene		34.8	ug/kg	0.320	1.07
96-12-8	1,2-Dibromo-3-chloropropane		45.7	ug/kg	0.320	1.07
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	U	5.34	ug/kg	1.71	5.34
	Trichlorotrifluoroethane					
630-20-6	1,1,1,2-Tetrachloroethane		41.3	ug/kg	0.320	1.07
95-50-1	1,2-Dichlorobenzene		39.4	ug/kg	0.320	1.07

Data File: /chem/VOA7.i/030110v7/7b141.d
Report Date: 08-Mar-2010 12:57

Page 1

GEL Laboratories LLC

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

Data file : /chem/VOA7.i/030110v7/7b141.d
Lab Smp Id: 1202057920 Client Smp ID: RE15-10-8317MSD
Inj Date : 02-MAR-2010 06:24
Operator : AX01 Inst ID: VOA7.i
Smp Info : |1202057920|959504|1|VOAF|1|
Misc Info : LANL 5g N/A MSD 247791002
Comment :
Method : /chem/VOA7.i/030110v7/VOA7-8260B-021710PM.m
Meth Date : 04-Mar-2010 13:42 ale01592 Quant Type: ISTD
Cal Date : 18-FEB-2010 00:08 Cal File: 7z324.d
Als bottle: 41 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	6.34340	% 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)	795569	50.0000	
* 75 Chlorobenzene-d5	117	18.667	18.667	(1.000)	637285	50.0000	
* 101 1,4-Dichlorobenzene-d4	152	20.992	20.991	(1.000)	334056	50.0000	
\$ 46 1,2-Dichloroethane-d4	65	14.880	14.880	(0.971)	333583	48.5315	51.8
\$ 64 Toluene-d8	98	17.134	17.134	(0.918)	950904	45.8451	49.0
\$ 86 Bromofluorobenzene	95	19.814	19.814	(0.944)	381277	43.3899	46.3
4 Dichlorodifluoromethane	85	5.148	5.147	(0.336)	75560	30.5020	32.6
5 Chloromethane	50	5.757	5.757	(0.376)	264814	35.5843	38.0
6 Vinyl chloride	62	6.188	6.187	(0.404)	257956	39.0251	41.7
7 Bromomethane	94	7.429	7.429	(0.485)	145489	38.6051	41.2
8 Chloroethane	64	7.855	7.855	(0.513)	128717	38.0760	40.6
9 Trichlorofluoromethane	101	8.799	8.789	(0.574)	180424	35.6598	38.1

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
13 Acetone	43	10.424	10.423	(0.681)	857013	160.823	172
14 1,1-Dichloroethylene	96	10.312	10.312	(0.673)	130262	37.6504	40.2
102 1,4-Dichlorobenzene	146	21.012	21.012	(1.001)	343412	35.5780	38.0
16 Iodomethane	142	10.667	10.667	(0.696)	1213592	201.294	215
22 Methylene chloride	86	11.449	11.449	(0.747)	131107	40.3361	43.1
19 Carbon disulfide	76	10.840	10.840	(0.708)	2392930	196.605	210
25 trans-1,2-Dichloroethylene	61	12.028	12.027	(0.785)	272205	37.2150	39.7
28 1,1-Dichloroethane	63	12.799	12.799	(0.836)	380532	39.9802	42.7
31 2-Butanone	43	13.723	13.723	(0.896)	1093401	183.969	196
33 cis-1,2-Dichloroethylene	61	13.733	13.733	(0.897)	318400	37.7193	40.3
100 1,3-Dichlorobenzene	146	20.931	20.930	(0.997)	344735	34.8736	37.2
34 2,2-Dichloropropane	77	13.743	13.743	(0.897)	130595	33.0312	35.3
38 Chloroform	83	14.190	14.190	(0.926)	298666	37.6938	40.2
105 1,2-Dichlorobenzene	146	21.438	21.438	(1.021)	366460	36.9062	39.4
37 Bromochloromethane	49	14.088	14.088	(0.920)	264499	42.3848	45.2
41 1,1,1-Trichloroethane	97	14.484	14.484	(0.946)	203075	37.3478	39.9
44 1,1-Dichloropropene	75	14.697	14.697	(0.960)	213428	37.4894	40.0
45 Carbon tetrachloride	117	14.728	14.718	(0.962)	157202	36.3345	38.8
47 1,2-Dichloroethane	62	14.982	14.982	(0.978)	308276	39.4332	42.1
48 Benzene	78	14.982	14.982	(0.978)	680956	39.1451	41.8
53 Trichloroethylene	95	15.763	15.763	(1.029)	166398	39.4791	42.2
56 1,2-Dichloropropane	63	16.038	16.037	(1.047)	241798	41.7419	44.6
59 Bromodichloromethane	83	16.332	16.332	(1.066)	251098	40.4181	43.2
58 Dibromomethane	93	16.180	16.179	(1.056)	137284	43.9364	46.9
63 4-Methyl-2-pentanone	58	16.941	16.941	(0.908)	627724	200.149	214
62 cis-1,3-Dichloropropylene	75	16.819	16.819	(1.098)	313686	41.4603	44.3
65 Toluene	92	17.215	17.215	(0.922)	407728	35.5354	37.9
67 trans-1,3-Dichloropropylene	75	17.388	17.388	(0.931)	293005	37.6838	40.2
68 1,1,2-Trichloroethane	83	17.611	17.611	(0.943)	169920	39.3061	42.0
69 2-Hexanone	43	17.794	17.804	(0.953)	1400597	161.381	172 (A)
70 1,3-Dichloropropane	76	17.794	17.794	(0.953)	359559	40.5591	43.3
71 Tetrachloroethylene	164	17.814	17.814	(0.954)	107511	33.9060	36.2
72 Dibromochloromethane	129	18.058	18.058	(0.967)	184895	39.6537	42.3
73 1,2-Dibromoethane	107	18.220	18.220	(0.976)	190410	40.6120	43.4
76 Chlorobenzene	112	18.697	18.697	(1.002)	435659	36.8871	39.4
77 1,1,1,2-Tetrachloroethane	131	18.758	18.758	(1.005)	157329	38.6564	41.3
78 Ethylbenzene	91	18.758	18.758	(1.005)	732852	34.1844	36.5
79 m,p-Xylenes	106	18.870	18.870	(1.011)	593791	73.5997	78.6
80 o-Xylene	106	19.286	19.286	(1.033)	324986	38.0246	40.6
81 Styrene	104	19.286	19.286	(1.033)	538007	39.3092	42.0
82 Bromoform	173	19.540	19.540	(0.931)	132161	41.2917	44.1
87 1,1,2,2-Tetrachloroethane	83	19.885	19.885	(0.947)	287994	38.0958	40.7
89 1,2,3-Trichloropropane	110	19.966	19.966	(0.951)	64056	38.9425	41.6
90 Bromobenzene	156	20.017	20.017	(0.954)	188199	37.1929	39.7
91 n-Propylbenzene	91	20.027	20.027	(0.954)	872596	31.7596	33.9
93 2-Chlorotoluene	91	20.169	20.169	(0.961)	644932	34.2854	36.6
83 Isopropylbenzene	105	19.631	19.631	(0.935)	701398	32.4555	34.6

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)	618504	34.6353	37.0
94 4-Chlorotoluene	91	20.271	20.260	(0.966)	542049	32.1018	34.3
95 tert-Butylbenzene	119	20.535	20.524	(0.978)	559924	34.6124	37.0
96 1,2,4-Trimethylbenzene	105	20.565	20.565	(0.980)	614465	33.9994	36.3
98 sec-Butylbenzene	105	20.748	20.748	(0.988)	794818	33.3643	35.6
99 4-Isopropyltoluene	119	20.860	20.859	(0.994)	591780	34.3683	36.7
104 n-Butylbenzene	91	21.296	21.296	(1.014)	650971	32.6343	34.8
107 1,2-Dibromo-3-chloropropane	157	22.291	22.291	(1.062)	53246	42.7572	45.6

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/V007.i/030110v7/7b141.d

Date: 02-MAR-2010 06:24

Client ID: RE15-10-8317MSD

Sample Info: 112020579201959504.1.V007.i

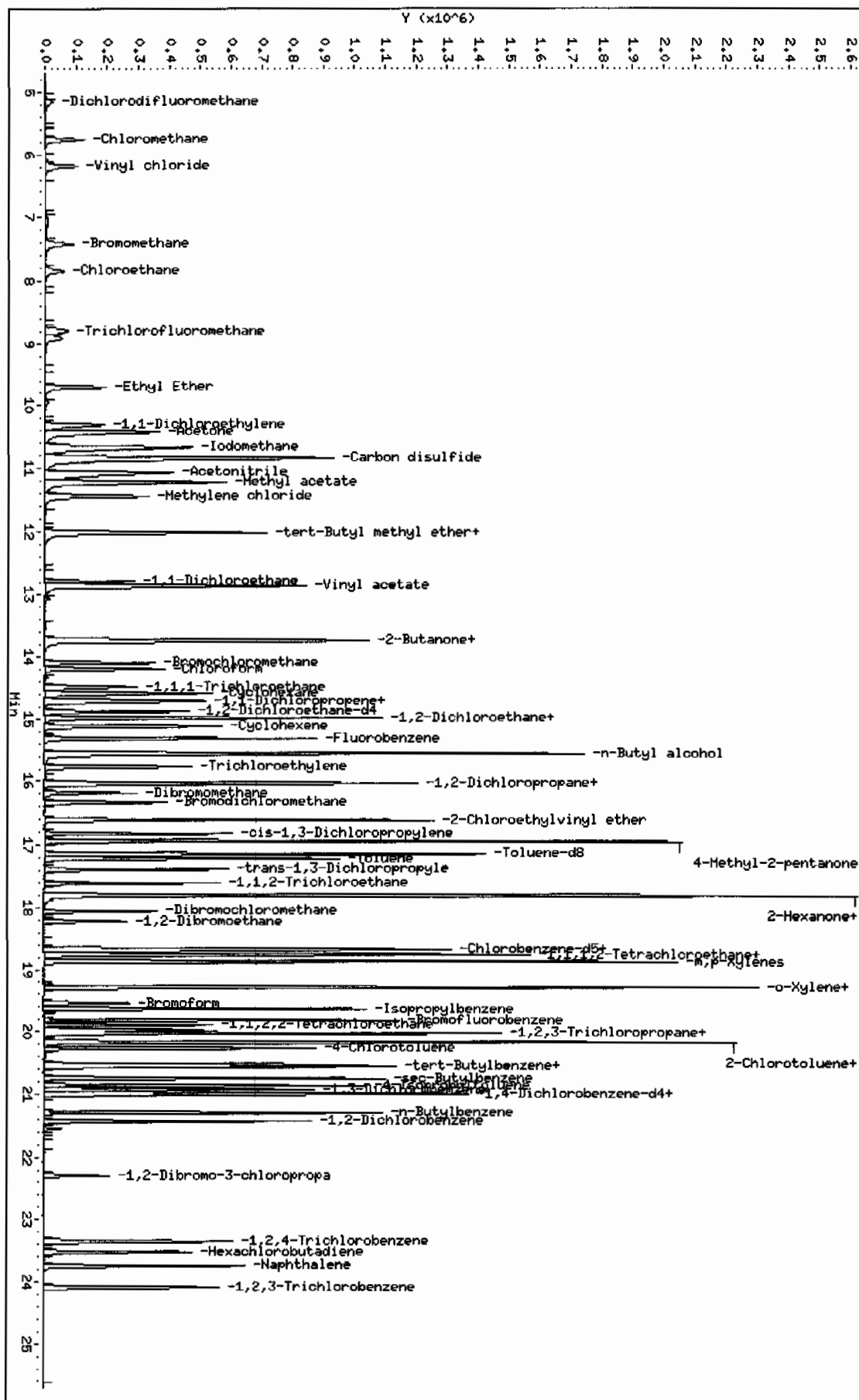
Column phase: DB-624

Instrument: V007.i

Operator: RK01

Column diameter: 0.25

/chem/V007.i/030110v7/7b141.d



Miscellaneous Data

Prep Logbook

Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Batch ID: 959502
Analyst: Alex Olson
Method: SW846 5030
Lab SOP: GL-OA-E-038 REV# 14
Instrument: Sartorius Balance B-001

Verified by: _____

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
1202057918 MB	01-MAR-2010 06:30:00	Soil	5	5	1	N/A						
1202057921 LCS	01-MAR-2010 06:30:00	Soil	5	5	1	N/A						
1202057922 LCS	01-MAR-2010 06:30:00	Soil	5	5	1	N/A						
1202061835 MB	01-MAR-2010 15:00:00	Misc Solid	5	5	1	N/A						
1202061836 LCS	01-MAR-2010 15:00:00	Misc Solid	5	5	1	N/A						
1202061837 LCS	01-MAR-2010 15:00:00	Misc Solid	5	5	1	N/A						
247784001	01-MAR-2010 15:10:00	Misc Solid	5	5	1	N/A						
247790001	01-MAR-2010 15:14:00	Misc Solid	5	5	1	N/A						
247790002	01-MAR-2010 15:16:00	Soil	5	5	1	N/A						
247790003	01-MAR-2010 15:18:00	Soil	5	5	1	N/A						
247791001	01-MAR-2010 15:20:00	Misc Solid	5	5	1	N/A						
247791002	01-MAR-2010 15:22:00	Soil	5	5	1	N/A						
1202057919 PS (247791002)	01-MAR-2010 15:24:00	Soil	5	5	1	N/A						
1202057920 PSD (247791002)	01-MAR-2010 15:26:00	Soil	5	5	1	N/A						
247791003	01-MAR-2010 15:28:00	Soil	5	5	1	N/A						
247791004	01-MAR-2010 15:30:00	Soil	5	5	1	N/A						
247791005	01-MAR-2010 15:32:00	Soil	5	5	1	N/A						
247791006	01-MAR-2010 15:34:00	Soil	5	5	1	N/A						
247855001	01-MAR-2010 15:36:00	Misc Solid	5	5	1	N/A						
247855002	01-MAR-2010 15:38:00	Soil	5	5	1	N/A						
247784002	02-MAR-2010 06:36:00	Soil	5	5	1	N/A						

Reagent/Solvent Lot ID Description Amount Comments:

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

ORGANIC RUN LOG - INSTRUMENT ID#VOA7

Date: 2/17/2010 Method 8260B/624 Operator: AX01
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 ICAI Std. Sol. Ids)
NaHSO4 lot # N/A
Cl test lot # N/A
Sequence Number: 021710V7

Daily Standard Volume Added for Purge (ul) MS/ BFB
Solution ID# Smpl CCV LCS BFB
LONG ICV W7VM100217-22 1 1 1 5-5
IS UVM100203-01 1 1 1 1
SS UVM100203-02 1 1 1 1
SHORT ICV W7VM100217-23 5-5
BFB UVM100203-02 1 1 1 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)	Dil.	Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable (O/X)	Comments
2/17/2010	8:37	72301.D	120200-----		GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	O	
2/17/2010	9:12	72302.D	W7VM100217-01		GEL	CCV	5mL	1	N/A	2	w	AXO1	N/A	X	UVM100106-07C/UVM100202-07C
2/17/2010	9:47	72303.D	W7VM100217-02		GEL	LCS	5mL	1	N/A	3	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	10:22	72304.D	W7VM100217-03		GEL	LCS	5g	1	N/A	4	s	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	11:21	72305.D	W7VM100217-04		GEL	LCS	5mL	1	N/A	5	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/17/2010	12:21	72306.D	120200-----		GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X	
2/17/2010	12:54	72307.D	W7VM100217-05		GEL	LCS	5mL	1	N/A	2	w	AXO1	N/A	X	UVM100126-01D/UVM100214-01
2/17/2010	14:55	72308.D	120200-----		GEL	RINSE	5mL	1	N/A	1	w	AXO1	N/A	X	
2/17/2010	15:29	72309.D	UVM100203-02		GEL	BFB01	5mL	1	N/A	2	w	AXO1	N/A	O	
2/17/2010	16:02	72310.D	W7VM100217-06		GEL	VSTD001	5mL	1	N/A	3	w	AXO1	N/A	O	UVM100106-02C/UVM100202-02C
2/17/2010	16:35	72311.D	W7VM100217-07		GEL	VSTD002	5mL	1	N/A	4	w	AXO1	N/A	O	UVM100106-03C/UVM100202-03C
2/17/2010	17:09	72312.D	W7VM100217-08		GEL	VSTD005	5mL	1	N/A	5	w	AXO1	N/A	O	UVM100106-04C/UVM100202-04C
2/17/2010	17:44	72313.D	W7VM100217-09		GEL	VSTD010	5mL	1	N/A	6	w	AXO1	N/A	O	UVM100106-05C/UVM100202-05C
2/17/2010	18:20	72314.D	W7VM100217-10		GEL	VSTD020	5mL	1	N/A	7	w	AXO1	N/A	O	UVM100106-06C/UVM100202-06C
2/17/2010	18:55	72315.D	W7VM100217-11		GEL	VSTD050	5mL	1	N/A	8	w	AXO1	N/A	O	UVM100106-07C/UVM100202-07C
2/17/2010	19:30	72316.D	W7VM100217-12		GEL	VSTD100	5mL	1	N/A	9	w	AXO1	N/A	O	UVM100106-08C/UVM100202-08C
2/17/2010	20:05	72317.D	120200-----		GEL	RINSE	5mL	1	N/A	10	w	AXO1	N/A	X	
2/17/2010	20:39	72318.D	W7VM100217-13		GEL	VSTD005	5mL	1	N/A	11	w	AXO1	N/A	O	UVM100106-01C/UVM100202-01C
2/17/2010	21:14	72319.D	W7VM100217-14		GEL	VSTD005S	5mL	1	N/A	12	w	AXO1	N/A	O	UVM100215-01/UVM100125-01D
2/17/2010	21:49	72320.D	W7VM100217-15		GEL	VSTD010S	5mL	1	N/A	13	w	AXO1	N/A	O	UVM100215-02/UVM100125-02D
2/17/2010	22:24	72321.D	W7VM100217-16		GEL	VSTD020S	5mL	1	N/A	14	w	AXO1	N/A	O	UVM100215-03/UVM100125-03D
2/17/2010	22:59	72322.D	W7VM100217-17		GEL	VSTD050S	5mL	1	N/A	15	w	AXO1	N/A	O	UVM100215-04/UVM100125-04D
2/17/2010	23:33	72323.D	W7VM100217-18		GEL	VSTD100S	5mL	1	N/A	16	w	AXO1	N/A	O	UVM100215-05/UVM100125-05D
2/18/2010	0:08	72324.D	W7VM100217-19		GEL	VSTD250S	5mL	1	N/A	17	w	AXO1	N/A	O	UVM100215-06/UVM100125-06D
2/18/2010	0:42	72325.D	W7VM100217-20		GEL	VSTD500S	5mL	1	N/A	18	w	AXO1	N/A	O	UVM100215-07/UVM100125-07D
2/18/2010	1:17	72326.D	120200-----		GEL	RINSE	5mL	1	N/A	19	w	AXO1	N/A	X	
2/18/2010	1:52	72327.D	W7VM100217-21		GEL	ICV	5mL	1	N/A	20	w	AXO1	N/A	X	UVM100126-02C/UVM100214-01
2/18/2010	2:27	72328.D	W7VM100217-22		GEL	ICV	5mL	1	N/A	21	w	AXO1	N/A	O	UVM100126-01E/UVM100214-01
2/18/2010	3:03	72329.D	W7VM100217-23		GEL	SICV	5mL	1	N/A	22	w	AXO1	N/A	O	UVM091216-08B/UVM100125-08C
2/18/2010	3:38	72330.D	120200-----		GEL	RINSE	5mL	1	N/A	23	w	AXO1	N/A	X	

Date: 3/1/2010 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: 030110V7PM

Daily Standard Solution ID# Volume Added for Purge (ul) MS/ Bk/ Smpl CCV LCS BFB
IS W7VM100301-06 5+5 1 1 1
SS UVM100203-01 1 1 1
LCS/MS W7VM100301-06/07 5+5
BFB UVM100203-02 1 1
SHORT W7VM100301-08/09 5 5
DHEC N/A

Purge Amount
5 Water Purge Vol:
5g Soil Purge Wt.
N/A Mid level ext. MeOH Vol:
N/A ul
N/A Methanol Lot #
x Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable (O/X)	Comments
1 Mar 2010	19:57	7B123.D	120200-----		GEL	RINSE	5mL	1	N/A	23	W	AXO1	N/A	X
1 Mar 2010	20:31	7B124.D	W7VM100301-06		GEL	BFB/CCV/LCS	5mL	1	N/A	24	W	AXO1	N/A	O
1 Mar 2010	21:05	7B125.D	W7VM100301-07		GEL	LCS	5g	1	N/A	25	S	AXO1	N/A	O
1 Mar 2010	21:40	7B126.D	W7VM100301-08		GEL	SHORT/SLCS	5mL	1	N/A	26	W	AXO1	N/A	O
1 Mar 2010	22:15	7B127.D	W7VM100301-09		GEL	SLCS	5g	1	N/A	27	S	AXO1	N/A	O
1 Mar 2010	22:49	7B128.D	120200-----		GEL	BLANK	5mL	1	N/A	28	W	AXO1	N/A	O
1 Mar 2010	23:24	7B129.D	120200-----		GEL	BLANK	5g	1	N/A	29	S	AXO1	N/A	O
1 Mar 2010	23:59	7B130.D	247790002		LANL	959504	5g	1	N/A	30	S	AXO1	N/A	O
2 Mar 2010	00:34	7B131.D	247790003		LANL	959504	5g	1	N/A	31	S	AXO1	N/A	O
2 Mar 2010	01:10	7B132.D	247791001		LANL	959504	5g	1	N/A	32	S	AXO1	N/A	O
2 Mar 2010	01:46	7B133.D	247791002		LANL	959504	5g	1	N/A	33	S	AXO1	N/A	O
2 Mar 2010	02:21	7B134.D	247791003		LANL	959504	5g	1	N/A	34	S	AXO1	N/A	O
2 Mar 2010	02:54	7B135.D	247791004		LANL	959504	5g	1	N/A	35	S	AXO1	N/A	O
2 Mar 2010	03:30	7B136.D	247791005		LANL	959504	5g	1	N/A	36	S	AXO1	N/A	O
2 Mar 2010	04:06	7B137.D	247791006		LANL	959504	5g	1	N/A	37	S	AXO1	N/A	O
2 Mar 2010	04:41	7B138.D	247855001		LANL	959504	5g	1	N/A	38	S	AXO1	N/A	O
2 Mar 2010	05:16	7B139.D	247855002		LANL	959504	5g	1	N/A	39	S	AXO1	N/A	O
2 Mar 2010	05:51	7B140.D	1202057919		LANL	959504	5g	1	N/A	40	S	AXO1	N/A	O
2 Mar 2010	06:24	7B141.D	1202057920		LANL	959504	5g	1	N/A	41	S	AXO1	N/A	O
2 Mar 2010	06:58	7B142.D	120200-----		GEL	RINSE	5mL	1	N/A	42	W	AXO1	N/A	X
2 Mar 2010	07:32	7B143.D	247784002		LANL	959504	5g	1	N/A	43	S	AXO1	N/A	O

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1982**

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:	957838
Prep Batch Number:	957826

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
247791002	RE15-10-8317
247791003	RE15-10-8319
247791004	RE15-10-8316
247791005	RE15-10-8326
247791006	RE15-10-8318
1202053894	Method Blank (MB)
1202053895	Laboratory Control Sample (LCS)
1202053896	247791002(RE15-10-8317) Matrix Spike (MS)
1202053897	247791002(RE15-10-8317) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 23.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

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

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms. 2,4-Toluene diisocyanate rapidly hydrolyzes in water (half-life less than 30 minutes). Therefore, recoveries of this compound from aqueous matrices should not be expected. In addition, in solid matrices, 2,4-Toluene diisocyanate often reacts with alcohols and amines to produce urethane and ureas and consequently cannot usually coexist in a solution containing these materials. 2,4-Toluene diisocyanate is reported as an estimated value.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration

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

CCV Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247791002 (RE15-10-8317) was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement

The MS(1202053896) recovered Benzyl alcohol at 18%. The limits are 19%-112%. The MSD displayed a similar low but passing recovery for that analyte. Therefore, the biased low recoveries were attributed to sample matrix interference and the data have been reported.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD(1202053897) recovered 4-Nitrophenol at 13%. The limits are 15%-110%. The MS displayed a similar low but passing recovery for that analyte. Therefore, the biased low recoveries were attributed to sample matrix interference and the data have been reported.

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.

Technical Information:**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG except for confirmations and/or dilutions.

Miscellaneous Information:**Data Exception (DER) Documentation**

The following DER was generated for this SDG: 799084. It located in the Miscellaneous Section of the data report.

Manual Integrations

Manual integrations were required for the MS(1202053896). Please see the associated raw data located in the Miscellaneous Section of the data report.

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:

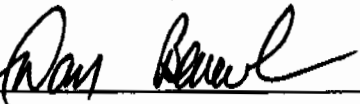
Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD8.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

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

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer:  Date: 3-22-10

Roadmap for LANL 10-1982 SVOA

This roadmap was analyzed by nat00999 on 03-04-2010, 09:36.

This roadmap was reviewed by bar00895 on 03-04-2010, 11:27.

This roadmap was packaged by CHA01131 on 03-04-2010, 17:07.

Sample

exclude	manual	datafile	srupid	injdate	injtime	sublist	clientid	dilution	batchid	comment
<input checked="" type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0118.d	247791002	01-MAR-2010	20:28	10-1982.sub	RE15-10-8317	1	957838	DUSE - failed IS - rr - see s8c0220
<input checked="" type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0121.d	247791003	01-MAR-2010	21:58	10-1982.sub	RE15-10-8319	1	957838	DUSE - failed IS/surr - rr - see s8c0320
<input type="checkbox"/>	N	/chem/MSD8.i/s030210.b/s8c0220.d	247791002	02-MAR-2010	18:36	10-1982.sub	RE15-10-8317	1	957838	USE - rr of s8c0118
<input type="checkbox"/>	N	/chem/MSD8.i/s030310.b/s8c0320.d	247791003	03-MAR-2010	19:39	10-1982.sub	RE15-10-8319	1	957838	USE - rr of s8c0121
<input type="checkbox"/>	N	/chem/MSD8.i/s030310.b/s8c0321.d	247791004	03-MAR-2010	20:09	10-1982.sub	RE15-10-8316	1	957838	
<input type="checkbox"/>	N	/chem/MSD8.i/s030310.b/s8c0322.d	247791005	03-MAR-2010	20:38	10-1982.sub	RE15-10-8326	1	957838	
<input type="checkbox"/>	N	/chem/MSD8.i/s030310.b/s8c0323.d	247791006	03-MAR-2010	21:08	10-1982.sub	RE15-10-8318	1	957838	

QC Sample

exclude	manual	datafile	srupid	sampletype	injdate	injtime	sublist	clientid	dilution	batchid	comment
<input type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0105-2.d	1202053894	mb	01 MAR-2010	14:03	10-1982.sub	SBLKD1	1	957838	
<input type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0106-2.d	1202053895	lcs	01-MAR-2010	14:31	10-1982.sub	SBLKD1LCS	1	957838	
<input checked="" type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0119.d	1202053896	ms	01 MAR-2010	20:58	10-1982.sub	RE15-10-8317MS	1	957838	DUSE - failed spike - rr - see s8c0221
<input checked="" type="checkbox"/>	N	/chem/MSD8.i/s030110.b/s8c0120.d	1202053897	mad	01 MAR-2010	21:28	10-1982.sub	RE15-10-8317MSD	1	957838	DUSE - failed spike - rr - see s8c0222
<input type="checkbox"/>	N	/chem/MSD8.i/s030210.b/s8c0221.d	1202053896	ms	02-MAR-2010	19:06	10-1982.sub	RE15-10-8317MS	1	957838	USE - rr of s8c0119
<input type="checkbox"/>	N	/chem/MSD8.i/s030210.b/s8c0222.d	1202053897	mad	02-MAR-2010	19:35	10-1982.sub	RE15-10-8317MSD	1	957838	USE - rr of s8c0120

Sample Data Summary

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-SMS

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

Client ID: RE15-10-8316
Batch ID: 957838
Run Date: 03/03/2010 20:09
Prep Date: 02/25/2010 21:57
Data File: s8c0321.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.3	347
108-95-2	Phenol	U	347	ug/kg	69.3	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.3	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.3	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.3	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.3	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.6	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.3	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.3	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.3	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.3	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.3	347
95-48-7	o-Cresol	U	347	ug/kg	69.3	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.3	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.3	347
78-59-1	Isophorone	U	347	ug/kg	69.3	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.3	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.3	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.3	347
65-85-0	Benzoic acid	U	693	ug/kg	173	693
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.3	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.3	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.93	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.3	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.3	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.3	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.3	347
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	347	ug/kg	69.3	347

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Client ID: RE15-10-8316
Batch ID: 957838
Run Date: 03/03/2010 20:09
Prep Date: 02/25/2010 21:57
Data File: s8c0321.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	347	ug/kg	69.3	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	693	ug/kg	132	693
132-64-9	Dibenzofuran	U	347	ug/kg	69.3	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.3	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.3	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.3	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.3	347
122-66-7	Azobenzene	U	347	ug/kg	69.3	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.3	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.3	347
85-01-8	Phenanthrene	U	34.7	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.93	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.3	347
206-44-0	Fluoranthene	U	34.7	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.3	347
56-55-3	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.3	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.3	347
205-99-2	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.3	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	1.79	139	ug/kg		J
	Unknown Aldol Condensate	2.97	273	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.05 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.8	355
129-00-0	Pyrene	U	35.5	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachloroethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
99-09-2	o-Nitroaniline	U	355	ug/kg	71.1	355
	3-Nitroaniline					

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

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.05 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	355	ug/kg	71.1	355
606-20-2	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
51-28-5	2,4-Dinitrophenol	U	711	ug/kg	135	711
132-64-9	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	U	35.5	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene	U	35.5	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	U	35.5	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	U	35.5	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	U	35.5	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	U	35.5	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.03	254	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 957838
Run Date: 03/03/2010 21:08
Prep Date: 02/25/2010 21:57
Data File: s8c0323.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	349	ug/kg	69.7	349
108-95-2	Phenol	U	349	ug/kg	69.7	349
95-57-8	2-Chlorophenol	U	349	ug/kg	69.7	349
106-46-7	1,4-Dichlorobenzene	U	349	ug/kg	69.7	349
621-64-7	N-Nitrosodipropylamine	U	349	ug/kg	69.7	349
59-50-7	4-Chloro-3-methylphenol	U	349	ug/kg	69.7	349
83-32-9	Acenaphthene	U	34.9	ug/kg	11.5	34.9
121-14-2	2,4-Dinitrotoluene	U	349	ug/kg	34.9	349
100-02-7	4-Nitrophenol	U	349	ug/kg	115	349
87-86-5	Pentachlorophenol	U	349	ug/kg	87.2	349
129-00-0	Pyrene	U	34.9	ug/kg	10.5	34.9
110-86-1	Pyridine	U	349	ug/kg	69.7	349
62-53-3	Aniline	U	349	ug/kg	105	349
111-44-4	bis(2-Chloroethyl) ether	U	349	ug/kg	69.7	349
541-73-1	1,3-Dichlorobenzene	U	349	ug/kg	69.7	349
100-51-6	Benzyl alcohol	U	349	ug/kg	105	349
95-50-1	1,2-Dichlorobenzene	U	349	ug/kg	69.7	349
108-60-1	bis(2-Chloroisopropyl)ether	U	349	ug/kg	69.7	349
95-48-7	o-Cresol	U	349	ug/kg	69.7	349
65794-96-9	m,p-Cresols	U	349	ug/kg	105	349
67-72-1	Hexachloroethane	U	349	ug/kg	69.7	349
98-95-3	Nitrobenzene	U	349	ug/kg	69.7	349
78-59-1	Isophorone	U	349	ug/kg	69.7	349
88-75-5	2-Nitrophenol	U	349	ug/kg	69.7	349
105-67-9	2,4-Dimethylphenol	U	349	ug/kg	122	349
111-91-1	bis(2-Chloroethoxy)methane	U	349	ug/kg	69.7	349
120-83-2	2,4-Dichlorophenol	U	349	ug/kg	69.7	349
65-85-0	Benzoic acid	U	697	ug/kg	174	697
91-20-3	Naphthalene	U	34.9	ug/kg	10.5	34.9
106-47-8	4-Chloroaniline	U	349	ug/kg	69.7	349
87-68-3	Hexachlorobutadiene	U	349	ug/kg	69.7	349
91-57-6	2-Methylnaphthalene	U	34.9	ug/kg	6.97	34.9
77-47-4	Hexachlorocyclopentadiene	U	349	ug/kg	69.7	349
88-06-2	2,4,6-Trichlorophenol	U	349	ug/kg	69.7	349
95-95-4	2,4,5-Trichlorophenol	U	349	ug/kg	69.7	349
91-58-7	2-Chloronaphthalene	U	34.9	ug/kg	11.5	34.9
88-74-4	2-Nitroaniline	U	349	ug/kg	69.7	349
99-09-2	o-Nitroaniline	U	349	ug/kg	69.7	349
	3-Nitroaniline					

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

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	349	ug/kg	69.7	349
606-20-2	2,6-Dinitrotoluene	U	349	ug/kg	34.9	349
208-96-8	Acenaphthylene	U	34.9	ug/kg	10.5	34.9
51-28-5	2,4-Dinitrophenol	U	697	ug/kg	133	697
132-64-9	Dibenzofuran	U	349	ug/kg	69.7	349
84-66-2	Diethylphthalate	U	349	ug/kg	69.7	349
86-73-7	Fluorene	U	34.9	ug/kg	10.5	34.9
7005-72-3	4-Chlorophenylphenylether	U	349	ug/kg	69.7	349
534-52-1	2-Methyl-4,6-dinitrophenol	U	349	ug/kg	69.7	349
100-01-6	4-Nitroaniline	U	349	ug/kg	105	349
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	349	ug/kg	69.7	349
122-66-7	Azobenzene	U	349	ug/kg	69.7	349
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	349	ug/kg	69.7	349
118-74-1	Hexachlorobenzene	U	349	ug/kg	69.7	349
85-01-8	Phenanthrene	U	34.9	ug/kg	10.5	34.9
120-12-7	Anthracene	U	34.9	ug/kg	6.97	34.9
84-74-2	Di-n-butylphthalate	U	349	ug/kg	69.7	349
206-44-0	Fluoranthene	U	34.9	ug/kg	10.5	34.9
85-68-7	Butylbenzylphthalate	U	349	ug/kg	69.7	349
56-55-3	Benzo(a)anthracene	U	34.9	ug/kg	10.5	34.9
91-94-1	3,3'-Dichlorobenzidine	U	349	ug/kg	105	349
218-01-9	Chrysene	U	34.9	ug/kg	10.5	34.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	349	ug/kg	69.7	349
117-84-0	Di-n-octylphthalate	U	349	ug/kg	69.7	349
205-99-2	Benzo(b)fluoranthene	U	34.9	ug/kg	10.5	34.9
207-08-9	Benzo(k)fluoranthene	U	34.9	ug/kg	10.5	34.9
50-32-8	Benzo(a)pyrene	U	34.9	ug/kg	10.5	34.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.9	ug/kg	10.5	34.9
53-70-3	Dibenzo(a,h)anthracene	U	34.9	ug/kg	10.5	34.9
191-24-2	Benzo(ghi)perylene	U	34.9	ug/kg	10.5	34.9
120-82-1	1,2,4-Trichlorobenzene	U	349	ug/kg	69.7	349

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	190	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 957838
Run Date: 03/03/2010 19:39
Prep Date: 02/25/2010 21:57
Data File: s8c0320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	344	ug/kg	68.8	344
108-95-2	Phenol	U	344	ug/kg	68.8	344
95-57-8	2-Chlorophenol	U	344	ug/kg	68.8	344
106-46-7	1,4-Dichlorobenzene	U	344	ug/kg	68.8	344
621-64-7	N-Nitrosodipropylamine	U	344	ug/kg	68.8	344
59-50-7	4-Chloro-3-methylphenol	U	344	ug/kg	68.8	344
83-32-9	Acenaphthene	U	34.4	ug/kg	11.3	34.4
121-14-2	2,4-Dinitrotoluene	U	344	ug/kg	34.4	344
100-02-7	4-Nitrophenol	U	344	ug/kg	113	344
87-86-5	Pentachlorophenol	U	344	ug/kg	86.0	344
129-00-0	Pyrene	U	34.4	ug/kg	10.3	34.4
110-86-1	Pyridine	U	344	ug/kg	68.8	344
62-53-3	Aniline	U	344	ug/kg	103	344
111-44-4	bis(2-Chloroethyl) ether	U	344	ug/kg	68.8	344
541-73-1	1,3-Dichlorobenzene	U	344	ug/kg	68.8	344
100-51-6	Benzyl alcohol	U	344	ug/kg	103	344
95-50-1	1,2-Dichlorobenzene	U	344	ug/kg	68.8	344
108-60-1	bis(2-Chloroisopropyl)ether	U	344	ug/kg	68.8	344
95-48-7	o-Cresol	U	344	ug/kg	68.8	344
65794-96-9	m,p-Cresols	U	344	ug/kg	103	344
67-72-1	Hexachloroethane	U	344	ug/kg	68.8	344
98-95-3	Nitrobenzene	U	344	ug/kg	68.8	344
78-59-1	Isophorone	U	344	ug/kg	68.8	344
88-75-5	2-Nitrophenol	U	344	ug/kg	68.8	344
105-67-9	2,4-Dimethylphenol	U	344	ug/kg	120	344
111-91-1	bis(2-Chloroethoxy)methane	U	344	ug/kg	68.8	344
120-83-2	2,4-Dichlorophenol	U	344	ug/kg	68.8	344
65-85-0	Benzoic acid	U	688	ug/kg	172	688
91-20-3	Naphthalene	U	34.4	ug/kg	10.3	34.4
106-47-8	4-Chloroaniline	U	344	ug/kg	68.8	344
87-68-3	Hexachlorobutadiene	U	344	ug/kg	68.8	344
91-57-6	2-Methylnaphthalene	U	34.4	ug/kg	6.88	34.4
77-47-4	Hexachlorocyclopentadiene	U	344	ug/kg	68.8	344
88-06-2	2,4,6-Trichlorophenol	U	344	ug/kg	68.8	344
95-95-4	2,4,5-Trichlorophenol	U	344	ug/kg	68.8	344
91-58-7	2-Chloronaphthalene	U	34.4	ug/kg	11.3	34.4
88-74-4	2-Nitroaniline	U	344	ug/kg	68.8	344
99-09-2	<i>o</i> -Nitroaniline	U	344	ug/kg	68.8	344
	3-Nitroaniline					

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

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.1
Analyst: NAG1
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8319
Batch ID: 957838
Run Date: 03/03/2010 19:39
Prep Date: 02/25/2010 21:57
Data File: s8c0320.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	344	ug/kg	68.8	344
606-20-2	2,6-Dinitrotoluene	U	344	ug/kg	34.4	344
208-96-8	Acenaphthylene	U	34.4	ug/kg	10.3	34.4
51-28-5	2,4-Dinitrophenol	U	688	ug/kg	131	688
132-64-9	Dibenzofuran	U	344	ug/kg	68.8	344
84-66-2	Diethylphthalate	U	344	ug/kg	68.8	344
86-73-7	Fluorene	U	34.4	ug/kg	10.3	34.4
7005-72-3	4-Chlorophenylphenylether	U	344	ug/kg	68.8	344
534-52-1	2-Methyl-4,6-dinitrophenol	U	344	ug/kg	68.8	344
100-01-6	4-Nitroaniline	U	344	ug/kg	103	344
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	344	ug/kg	68.8	344
122-66-7	Azobenzene	U	344	ug/kg	68.8	344
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	344	ug/kg	68.8	344
118-74-1	Hexachlorobenzene	U	344	ug/kg	68.8	344
85-01-8	Phenanthrene	U	34.4	ug/kg	10.3	34.4
120-12-7	Anthracene	U	34.4	ug/kg	6.88	34.4
84-74-2	Di-n-butylphthalate	U	344	ug/kg	68.8	344
206-44-0	Fluoranthene	U	34.4	ug/kg	10.3	34.4
85-68-7	Butylbenzylphthalate	U	344	ug/kg	68.8	344
56-55-3	Benzo(a)anthracene	U	34.4	ug/kg	10.3	34.4
91-94-1	3,3'-Dichlorobenzidine	U	344	ug/kg	103	344
218-01-9	Chrysene	U	34.4	ug/kg	10.3	34.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	344	ug/kg	68.8	344
117-84-0	Di-n-octylphthalate	U	344	ug/kg	68.8	344
205-99-2	Benzo(b)fluoranthene	U	34.4	ug/kg	10.3	34.4
207-08-9	Benzo(k)fluoranthene	U	34.4	ug/kg	10.3	34.4
50-32-8	Benzo(a)pyrene	U	34.4	ug/kg	10.3	34.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.4	ug/kg	10.3	34.4
53-70-3	Dibenzo(a,h)anthracene	U	34.4	ug/kg	10.3	34.4
191-24-2	Benzo(ghi)perylene	U	34.4	ug/kg	10.3	34.4
120-82-1	1,2,4-Trichlorobenzene	U	344	ug/kg	68.8	344

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	244	ug/kg		JA

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

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.4	347
108-95-2	Phenol	U	347	ug/kg	69.4	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.4	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.4	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.4	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.4	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.7	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.4	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.4	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.4	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.4	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.4	347
95-48-7	o-Cresol	U	347	ug/kg	69.4	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.4	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.4	347
78-59-1	Isophorone	U	347	ug/kg	69.4	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.4	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.4	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.4	347
65-85-0	Benzoic acid	U	694	ug/kg	173	694
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.4	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.4	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.94	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.4	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.4	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.4	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.4	347
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	347	ug/kg	69.4	347

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

SDG Number: 10-1982
Lab Sample ID: 247791005

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	347	ug/kg	69.4	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	694	ug/kg	132	694
132-64-9	Dibenzofuran	U	347	ug/kg	69.4	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.4	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.4	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.4	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.4	347
122-66-7	Azobenzene	U	347	ug/kg	69.4	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.4	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.4	347
85-01-8	Phenanthrene	U	34.7	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.94	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.4	347
206-44-0	Fluoranthene	U	34.7	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.4	347
56-55-3	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.4	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.4	347
205-99-2	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.4	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	282	ug/kg		JA

QC Summary

Semi-Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1982

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
1202053894	MB for batch 957826	79	73	75	75	85	94
1202053895	LCS for batch 957826	64	60	60	60	79	74
247791002	RE15-10-8317	54	49	52	51	44	63
1202053896	RE15-10-8317MS	68	66	64	63	58	81
1202053897	RE15-10-8317MSD	73	71	69	68	66	81
247791003	RE15-10-8319	57	54	52	52	52	67
247791004	RE15-10-8316	66	64	60	60	61	75
247791005	RE15-10-8326	68	64	62	62	61	71
247791006	RE15-10-8318	52	51	47	48	46	63

Surrogate**Acceptance Limits**

2FP	= 2-Fluorophenol	(29%-99%)
PHL	= Phenol-d5	(33%-98%)
NBZ	= Nitrobenzene-d5	(31%-105%)
FBP	= 2-Fluorobiphenyl	(25%-109%)
TBP	= 2,4,6-Tribromophenol	(37%-106%)
TPH	= p-Terphenyl-d14	(13%-150%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 957826

Matrix: SOIL

Lab Sample ID: 1202053895

Instrument: MSD8.I

Analysis Date: 03/01/2010 14:31

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

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	844	51	22-114
108-95-2	LCS Phenol	1670	0.0	997	60	39-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1070	64	40-107
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	995	60	33-108
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	967	58	34-113
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1080	65	42-114
83-32-9	LCS Acenaphthene	1670	0.0	950	57	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1260	75	49-112
100-02-7	LCS 4-Nitrophenol	1670	0.0	1310	79	24-113
87-86-5	LCS Pentachlorophenol	1670	0.0	1400	84	27-116
129-00-0	LCS Pyrene	1670	0.0	950	57	42-113
110-86-1	LCS Pyridine	1670	0.0	860	52	8-125
62-53-3	LCS Aniline	1670	0.0	861	52	18-126
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	837	50	32-103
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	983	59	32-108
100-51-6	LCS Benzyl alcohol	1670	0.0	775	47	27-108
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	993	60	35-111
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	662	40	28-117
95-48-7	LCS o-Cresol	1670	0.0	966	58	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1190	71	45-121
67-72-1	LCS Hexachloroethane	1670	0.0	934	56	30-109
98-95-3	LCS Nitrobenzene	1670	0.0	1000	60	33-116

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 957826

Matrix: SOIL

Lab Sample ID: 1202053895

Instrument: MSD8.I

Analysis Date: 03/01/2010 14:31

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

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	980	59	35-113
88-75-5	LCS 2-Nitrophenol	1670	0.0	1180	71	31-117
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	983	59	32-112
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1040	62	34-110
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1170	70	34-116
65-85-0	LCS Benzoic acid	3330	0.0	2520	76	22-138
91-20-3	LCS Naphthalene	1670	0.0	1060	63	35-103
106-47-8	LCS 4-Chloroaniline	1670	0.0	904	54	20-118
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1020	61	31-117
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1110	67	38-115
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1050	63	22-140
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1130	68	40-110
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1160	70	43-113
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1040	63	37-111
88-74-4	LCS 2-Nitroaniline o-Nitroaniline	1670	0.0	1040	62	41-113
99-09-2	LCS 3-Nitroaniline m-Nitroaniline	1670	0.0	1130	68	34-125
131-11-3	LCS Dimethylphthalate	1670	0.0	1220	73	48-122
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1200	72	47-107
208-96-8	LCS Acenaphthylene	1670	0.0	1030	62	44-110
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	1570	94	18-127
132-64-9	LCS Dibenzofuran	1670	0.0	1120	67	49-115
84-66-2	LCS Diethylphthalate	1670	0.0	1200	72	51-126

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 957826

Matrix: SOIL

Lab Sample ID: 1202053895

Instrument: MSD8.I

Analysis Date: 03/01/2010 14:31

Dilution: 1

Analyst: NAG1

Prep Batch II 957826

Inj. Vol: .5 uL

Batch ID: 957838

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	1050	63	43-109
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1120	67	45-115
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1460	88	32-117
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1550	93	33-148
122-39-4	LCS Diphenylamine	1670	0.0	1340	80	46-114
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1070	64	38-123
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1190	71	40-119
118-74-1	LCS Hexachlorobenzene	1670	0.0	1130	68	43-111
85-01-8	LCS Phenanthrene	1670	0.0	1150	69	46-107
120-12-7	LCS Anthracene	1670	0.0	1080	65	46-110
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1370	82	52-132
206-44-0	LCS Fluoranthene	1670	0.0	1170	70	51-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1290	77	47-137
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1080	65	50-108
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	997	60	36-103
218-01-9	LCS Chrysene	1670	0.0	1140	68	48-111
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1350	81	48-139
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1260	76	42-141
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1110	67	49-114
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1110	67	50-116
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1190	72	54-114
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1280	77	53-120

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 957826

Matrix: SOIL

Lab Sample ID:1202053895

Instrument: MSD8.I

Analysis Date: 03/01/2010 14:31

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

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	1520	91	53-121
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1390	83	50-121
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1040	62	32-114

Semi-Volatile
Quality Control Summary
Spike Recovery Report

Page 1 of 8

SDG Number: 10-1982

Sample Type: Matrix Spike

Client ID: RE15-10-8317MS

Matrix: R

Lab Sample ID: 1202053896

%Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:06

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
62-75-9	MS N-Methyl-N-nitrosomethylam	1770	0.00 U	950	54	27-98
108-95-2	MS Phenol	1770	0.00 U	1060	60	33-94
95-57-8	MS 2-Chlorophenol	1770	0.00 U	1210	68	29-96
106-46-7	MS 1,4-Dichlorobenzene	1770	0.00 U	1130	64	27-96
621-64-7	MS N-Nitrosodipropylamine	1770	0.00 U	1140	64	29-102
59-50-7	MS 4-Chloro-3-methylphenol	1770	0.00 U	1120	64	29-110
83-32-9	MS Acenaphthene	1770	0.00 U	1050	59	17-109
121-14-2	MS 2,4-Dinitrotoluene	1770	0.00 U	1260	71	33-107
100-02-7	MS 4-Nitrophenol	1770	0.00 U	300	17	15-110
87-86-5	MS Pentachlorophenol	1770	0.00 U	591	33	23-110
129-00-0	MS Pyrene	1770	0.00 U	1110	63	24-118
110-86-1	MS Pyridine	1770	0.00 U	927	52	25-102
62-53-3	MS Aniline	1770	0.00 U	1010	57	18-109
111-44-4	MS bis(2-Chloroethyl) ether	1770	0.00 U	978	55	29-96
541-73-1	MS 1,3-Dichlorobenzene	1770	0.00 U	1140	64	26-97
100-51-6	MS Benzyl alcohol	1770	0.00 U	315	18 *	19-112
95-50-1	MS 1,2-Dichlorobenzene	1770	0.00 U	1140	65	30-97
108-60-1	MS bis(2-Chloroisopropyl)ether	1770	0.00 U	797	45	28-103
95-48-7	MS o-Cresol	1770	0.00 U	1110	63	32-107
65794-96-9	MS m,p-Cresols	1770	0.00 U	1380	78	33-115
67-72-1	MS Hexachloroethane	1770	0.00 U	1040	59	25-100
98-95-3	MS Nitrobenzene	1770	0.00 U	1120	63	27-106

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1982

Sample Type: Matrix Spike

Client ID: RE15-10-8317MS

Matrix: R

Lab Sample ID: J202053896

% Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:06

Dilution: 1

Analyst: NAG1

Prep Batch II 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	MS Isophorone	1770	0.00 U	1130	64	29-104
88-75-5	MS 2-Nitrophenol	1770	0.00 U	1260	71	26-102
105-67-9	MS 2,4-Dimethylphenol	1770	0.00 U	764	43	22-104
111-91-1	MS bis(2-Chloroethoxy)methane	1770	0.00 U	1180	67	27-101
120-83-2	MS 2,4-Dichlorophenol	1770	0.00 U	1300	74	26-103
65-85-0	MS Benzoic acid	3540	0.00 U	2210	62	13-131
91-20-3	MS Naphthalene	1770	0.00 U	1190	67	23-103
106-47-8	MS 4-Chloroaniline	1770	0.00 U	1100	62	26-103
87-68-3	MS Hexachlorobutadiene	1770	0.00 U	1130	64	28-101
91-57-6	MS 2-Methylnaphthalene	1770	0.00 U	1250	71	27-106
77-47-4	MS Hexachlorocyclopentadiene	1770	0.00 U	774	44	24-117
88-06-2	MS 2,4,6-Trichlorophenol	1770	0.00 U	1050	60	26-105
95-95-4	MS 2,4,5-Trichlorophenol	1770	0.00 U	1180	67	30-110
91-58-7	MS 2-Chloronaphthalene	1770	0.00 U	1170	66	28-102
88-74-4	MS 2-Nitroaniline <i>o</i> -Nitroaniline	1770	0.00 U	1130	64	33-106
99-09-2	MS 3-Nitroaniline <i>m</i> -Nitroaniline	1770	0.00 U	1180	67	33-116
131-11-3	MS Dimethylphthalate	1770	0.00 U	1280	72	38-113
606-20-2	MS 2,6-Dinitrotoluene	1770	0.00 U	1250	71	29-107
208-96-8	MS Acenaphthylene	1770	0.00 U	1130	64	25-108
51-28-5	MS 2,4-Dinitrophenol	1770	0.00 U	768	43	14-102
132-64-9	MS Dibenzofuran	1770	0.00 U	1210	68	35-112
84-66-2	MS Diethylphthalate	1770	0.00 U	1260	71	36-122

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1982

Sample Type: Matrix Spike

Client ID: RE15-10-8317MS

Matrix: R

Lab Sample ID: 1202053896

%Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:06

Dilution: 1

Analyst: NAG1

Pren Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
86-73-7	MS Fluorene	1770	0.00 U	1120	64	33-105
7005-72-3	MS 4-Chlorophenylphenylether	1770	0.00 U	1200	68	30-110
534-52-1	MS 2-Methyl-4,6-dinitrophenol	1770	0.00 U	742	42	26-97
100-01-6	MS 4-Nitroaniline <i>p-Nitroaniline</i>	1770	0.00 U	1480	84	28-135
122-39-4	MS Diphenylamine	1770	0.00 U	1450	82	33-109
122-66-7	MS Azobenzene <i>1,2-Diphenylhydrazine</i>	1770	0.00 U	1190	67	31-113
101-55-3	MS 4-Bromophenylphenylether	1770	0.00 U	1280	73	31-109
118-74-1	MS Hexachlorobenzene	1770	0.00 U	1190	67	37-99
85-01-8	MS Phenanthrene	1770	0.00 U	1190	67	29-109
120-12-7	MS Anthracene	1770	0.00 U	1150	65	19-118
84-74-2	MS Di-n-butylphthalate	1770	0.00 U	1390	78	39-123
206-44-0	MS Fluoranthene	1770	0.00 U	1140	65	33-114
85-68-7	MS Butylbenzylphthalate	1770	0.00 U	1460	83	35-131
56-55-3	MS Benzo(a)anthracene	1770	0.00 U	1120	63	30-111
91-94-1	MS 3,3'-Dichlorobenzidine	1770	0.00 U	1200	68	30-124
218-01-9	MS Chrysene	1770	0.00 U	1200	68	32-108
117-81-7	MS bis(2-Ethylhexyl)phthalate	1770	0.00 U	1520	86	37-129
117-84-0	MS Di-n-octylphthalate	1770	0.00 U	1770	100	31-143
205-99-2	MS Benzo(b)fluoranthene	1770	0.00 U	1250	71	29-118
207-08-9	MS Benzo(k)fluoranthene	1770	0.00 U	1290	73	32-118
50-32-8	MS Benzo(a)pyrene	1770	0.00 U	1250	71	33-115
193-39-5	MS Indeno(1,2,3-cd)pyrene	1770	0.00 U	982	56	29-114

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Matrix Spike

Client ID: RE15-10-8317MS

Matrix: R

Lab Sample ID:1202053896

%Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:06

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
53-70-3	MS Dibenzo(a,h)anthracene	1770	0.00 U	1310	74	27-119
191-24-2	MS Benzo(ghi)perylene	1770	0.00 U	1090	61	28-112
120-82-1	MS 1,2,4-Trichlorobenzene	1770	0.00 U	1170	66	28-99

Quality Control Summary Spike Recovery Report

SDG Number: 10-1982

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8317MSD

Matrix: R

Lab Sample ID: 1202053897

%Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:35

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg		Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
62-75-9	MSD N-Methyl-N-nitrosomethylam	1780	0.00	U	1020	58	27-98	8	0-30
108-95-2	MSD Phenol	1780	0.00	U	1150	64	33-94	7	0-30
95-57-8	MSD 2-Chlorophenol	1780	0.00	U	1290	73	29-96	7	0-30
106-46-7	MSD 1,4-Dichlorobenzene	1780	0.00	U	1210	68	27-96	7	0-30
621-64-7	MSD N-Nitrosodipropylamine	1780	0.00	U	1220	69	29-102	7	0-30
59-50-7	MSD 4-Chloro-3-methylphenol	1780	0.00	U	1220	69	29-110	8	0-30
83-32-9	MSD Acenaphthene	1780	0.00	U	1100	62	17-109	5	0-30
121-14-2	MSD 2,4-Dinitrotoluene	1780	0.00	U	1380	78	33-107	9	0-30
100-02-7	MSD 4-Nitrophenol	1780	0.00	U	222	13 *	15-110	30	0-30
87-86-5	MSD Pentachlorophenol	1780	0.00	U	628	35	23-110	6	0-30
129-00-0	MSD Pyrene	1780	0.00	U	1100	62	24-118	1	0-30
110-86-1	MSD Pyridine	1780	0.00	U	966	54	25-102	4	0-30
62-53-3	MSD Aniline	1780	0.00	U	1020	57	18-109	1	0-30
111-44-4	MSD bis(2-Chloroethyl) ether	1780	0.00	U	1040	59	29-96	7	0-30
541-73-1	MSD 1,3-Dichlorobenzene	1780	0.00	U	1220	69	26-97	7	0-30
100-51-6	MSD Benzyl alcohol	1780	0.00	U	351	20	19-112	11	0-30
95-50-1	MSD 1,2-Dichlorobenzene	1780	0.00	U	1250	70	30-97	9	0-30
108-60-1	MSD bis(2-Chloroisopropyl)ether	1780	0.00	U	854	48	28-103	7	0-30
95-48-7	MSD o-Cresol	1780	0.00	U	1170	66	32-107	5	0-30
65794-96-9	MSD m,p-Cresols	1780	0.00	U	1440	81	33-115	5	0-30
67-72-1	MSD Hexachloroethane	1780	0.00	U	1130	63	25-100	8	0-30
98-95-3	MSD Nitrobenzene	1780	0.00	U	1230	69	27-106	9	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1982

Client ID: RE15-10-8317MSD

Lab Sample ID: 1202053897

Instrument: MSD8.I

Analyst: NAG1

Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate

Matrix: R

%Moisture: 6.3

Analysis Date: 03/02/2010 19:35

Dilution: 1

Prep Batch ID: 957826

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
78-59-1	MSD Isophorone	1780	0.00 U	1210	68	29-104	8	0-30
88-75-5	MSD 2-Nitrophenol	1780	0.00 U	1420	80	26-102	12	0-30
105-67-9	MSD 2,4-Dimethylphenol	1780	0.00 U	626	35	22-104	20	0-30
111-91-1	MSD bis(2-Chloroethoxy)methane	1780	0.00 U	1290	72	27-101	9	0-30
120-83-2	MSD 2,4-Dichlorophenol	1780	0.00 U	1420	80	26-103	9	0-30
65-85-0	MSD Benzoic acid	3560	0.00 U	2430	68	13-131	10	0-30
91-20-3	MSD Naphthalene	1780	0.00 U	1280	72	23-103	8	0-30
106-47-8	MSD 4-Chloroaniline	1780	0.00 U	1170	66	26-103	6	0-30
87-68-3	MSD Hexachlorobutadiene	1780	0.00 U	1230	69	28-101	8	0-30
91-57-6	MSD 2-Methylnaphthalene	1780	0.00 U	1370	77	27-106	9	0-30
77-47-4	MSD Hexachlorocyclopentadiene	1780	0.00 U	903	51	24-117	15	0-30
88-06-2	MSD 2,4,6-Trichlorophenol	1780	0.00 U	1130	63	26-105	7	0-30
95-95-4	MSD 2,4,5-Trichlorophenol	1780	0.00 U	1250	70	30-110	6	0-30
91-58-7	MSD 2-Chloronaphthalene	1780	0.00 U	1230	69	28-102	6	0-30
88-74-4	MSD 2-Nitroaniline <i>o</i> -Nitroaniline	1780	0.00 U	1220	69	33-106	8	0-30
99-09-2	MSD 3-Nitroaniline <i>m</i> -Nitroaniline	1780	0.00 U	1300	73	33-116	10	0-30
131-11-3	MSD Dimethylphthalate	1780	0.00 U	1370	77	38-113	7	0-30
606-20-2	MSD 2,6-Dinitrotoluene	1780	0.00 U	1350	76	29-107	7	0-30
208-96-8	MSD Acenaphthylene	1780	0.00 U	1210	68	25-108	7	0-30
51-28-5	MSD 2,4-Dinitrophenol	1780	0.00 U	922	52	14-102	18	0-30
132-64-9	MSD Dibenzofuran	1780	0.00 U	1290	73	35-112	7	0-30
84-66-2	MSD Diethylphthalate	1780	0.00 U	1350	76	36-122	7	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1982

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8317MSD

Matrix: R

Lab Sample ID: 1202053897

% Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:35

Dilution: 1

Analyst: NAG1

Prep Batch ID: 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD	Acceptance Limits
86-73-7	MSD Fluorene	1780	0.00 U	1200	68	33-105	7	0-30
7005-72-3	MSD 4-Chlorophenylphenylether	1780	0.00 U	1270	72	30-110	6	0-30
534-52-1	MSD 2-Methyl-4,6-dinitrophenol	1780	0.00 U	924	52	26-97	22	0-30
100-01-6	MSD 4-Nitroaniline <i>p</i> -Nitroaniline	1780	0.00 U	1710	96	28-135	14	0-30
122-39-4	MSD Diphenylamine	1780	0.00 U	1510	85	33-109	4	0-30
122-66-7	MSD Azobenzene <i>1,2</i> -Diphenylhydrazine	1780	0.00 U	1250	70	31-113	5	0-30
101-55-3	MSD 4-Bromophenylphenylether	1780	0.00 U	1340	75	31-109	4	0-30
118-74-1	MSD Hexachlorobenzene	1780	0.00 U	1230	69	37-99	4	0-30
85-01-8	MSD Phenanthrene	1780	0.00 U	1250	71	29-109	5	0-30
120-12-7	MSD Anthracene	1780	0.00 U	1200	67	19-118	4	0-30
84-74-2	MSD Di-n-butylphthalate	1780	0.00 U	1430	80	39-123	3	0-30
206-44-0	MSD Fluoranthene	1780	0.00 U	1210	68	33-114	6	0-30
85-68-7	MSD Butylbenzylphthalate	1780	0.00 U	1460	82	35-131	0	0-30
56-55-3	MSD Benzo(a)anthracene	1780	0.00 U	1170	66	30-111	4	0-30
91-94-1	MSD 3,3'-Dichlorobenzidine	1780	0.00 U	1280	72	30-124	7	0-30
218-01-9	MSD Chrysene	1780	0.00 U	1200	68	32-108	0	0-30
117-81-7	MSD bis(2-Ethylhexyl)phthalate	1780	0.00 U	1510	85	37-129	0	0-30
117-84-0	MSD Di-n-octylphthalate	1780	0.00 U	1710	96	31-143	3	0-30
205-99-2	MSD Benzo(b)fluoranthene	1780	0.00 U	1310	73	29-118	4	0-30
207-08-9	MSD Benzo(k)fluoranthene	1780	0.00 U	1310	73	32-118	1	0-30
50-32-8	MSD Benzo(a)pyrene	1780	0.00 U	1310	74	33-115	5	0-30
193-39-5	MSD Indeno(1,2,3-cd)pyrene	1780	0.00 U	1120	63	29-114	13	0-30

Semi-Volatile
Quality Control Summary
Spike Recovery Report

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SDG Number: 10-1982

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8317MSD

Matrix: R

Lab Sample ID: 1202053897

%Moisture: 6.3

Instrument: MSD8.I

Analysis Date: 03/02/2010 19:35

Dilution: 1

Analyst: NAG1

Pren Batch II 957826

Inj. Vol: .5 uL

Batch ID: 957838

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
53-70-3	MSD Dibenzo(a,h)anthracene	1780	0.00 U	1420	80	27-119	9	0-30
191-24-2	MSD Benzo(ghi)perylene	1780	0.00 U	1170	66	28-112	8	0-30
120-82-1	MSD 1,2,4-Trichlorobenzene	1780	0.00 U	1280	72	28-99	9	0-30

Method Blank Summary

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SDG Number:	10-1982	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 957826	Instrument ID:	MSD8.I	Data File:	s8c0105-1.d
Lab Sample ID:	1202053894	Prep Date:	02/25/2010 21:57	Analyzed:	03/01/10 14:03
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 957826	1202053895	s8c0106-1.d	03/01/10	1431
02 RE15-10-8317	247791002	s8c0220.d	03/02/10	1836
03 RE15-10-8317MS	1202053896	s8c0221.d	03/02/10	1906
04 RE15-10-8317MSD	1202053897	s8c0222.d	03/02/10	1935
05 RE15-10-8319	247791003	s8c0320.d	03/03/10	1939
06 RE15-10-8316	247791004	s8c0321.d	03/03/10	2009
07 RE15-10-8326	247791005	s8c0322.d	03/03/10	2038
08 RE15-10-8318	247791006	s8c0323.d	03/03/10	2108

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: MSD8.I

Injection Date/Time: 01-MAR-10 12:11

Column Description: J & W DB-5MS

Lab File ID /chem/MSD8.i/s030110.b/s8c0101.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	32
68	Less than 2% of mass 69	0
69	Mass 69 Relative Abundance	36.3
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	48.7
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	27
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	83.1
442	Greater than 40% of mass 198	69.1
443	17 - 23% of mass 442	19.4

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN100215-05.3	s8c0102.d	01-MAR-10 12:28
API2CVS	WBN100218-03.5	s8c0103.d	01-MAR-10 13:03
SBLK01	1202053894	s8c0105-1.d	01-MAR-10 14:03
SBLK01LCS	1202053895	s8c0106-1.d	01-MAR-10 14:31

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: MSD8.I

Injection Date/Time: 02-MAR-10 09:18

Column Description: J & W DB-5MS

Lab File ID /chem/MSD8.i/s030210.b/s8c0201.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	30.9
68	Less than 2% of mass 69	0.3
69	Mass 69 Relative Abundance	35.6
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	48
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	27.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	85.9
442	Greater than 40% of mass 198	74.3
443	17 - 23% of mass 442	19.1

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	WBN100225-05.5	s8c0202.d	02-MAR-10 09:35
AP12CVS	WBN100218-03.5	s8c0203.d	02-MAR-10 10:07
RE15-10-8317	247791002	s8c0220.d	02-MAR-10 18:36
RE15-10-8317MS	1202053896	s8c0221.d	02-MAR-10 19:06
RE15-10-8317MSD	1202053897	s8c0222.d	02-MAR-10 19:35

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: MSD8.I

Injection Date/Time: 03-MAR-10 13:25

Column Description: J & W DB-5MS

Lab File ID /chem/MSD8.i/s030310.b/s8c0307.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	34.6
68	Less than 2% of mass 69	1.3
69	Mass 69 Relative Abundance	39
70	Less than 2% of mass 69	0.4
127	40 - 60% of mass 198	50.2
197	0 - 1% of mass 198	0.3
199	5 - 9% of mass 198	6.6
275	10 - 30% of mass 198	26.9
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	80
442	Greater than 40% of mass 198	62.8
443	17 - 23% of mass 442	20

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	WBN100225-05.5	s8c0308.d	03-MAR-10 13:40
AP12CVS	WBN100218-03.4	s8c0309.d	03-MAR-10 14:12
RE15-10-8319	247791003	s8c0320.d	03-MAR-10 19:39
RE15-10-8316	247791004	s8c0321.d	03-MAR-10 20:09
RE15-10-8326	247791005	s8c0322.d	03-MAR-10 20:38
RE15-10-8318	247791006	s8c0323.d	03-MAR-10 21:08

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: MSD8.I

Injection Date/Time: 20-FEB-10 12:04

Column Description: J & W DB-5MS

Lab File ID /chem/MSD8.i/s022010.b/s8b2001.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	41.9
68	Less than 2% of mass 69	1.9
69	Mass 69 Relative Abundance	40.3
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	49.9
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	24.3
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	76.5
442	Greater than 40% of mass 198	61.7
443	17 - 23% of mass 442	19.3

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGAICAL	WBN100215-08	s8b2003.d	20-FEB-10 12:55
MEGAICAL	WBN100215-07	s8b2004.d	20-FEB-10 13:30
MEGAICAL	WBN100215-06	s8b2005.d	20-FEB-10 14:05
MEGAICAL	WBN100215-05.1	s8b2006.d	20-FEB-10 14:40
MEGAICAL	WBN100215-04	s8b2007.d	20-FEB-10 15:14
MEGAICAL	WBN100215-03	s8b2008.d	20-FEB-10 15:50
MEGAICAL	WBN100215-02	s8b2009.d	20-FEB-10 16:25
MEGAICAL	WBN100215-01	s8b2010.d	20-FEB-10 16:59
MEGAICV	WBN100215-05.1	s8b2012.d	20-FEB-10 18:09

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1982

Instrument ID: MSD8.I

Injection Date/Time: 21-FEB-10 08:35

Column Description: J & W DB-5MS

Lab File ID /chem/MSD8.i/s022010.b/s8b2013.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	40.5
68	Less than 2% of mass 69	1.8
69	Mass 69 Relative Abundance	38.9
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	48.8
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	25.3
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	76.6
442	Greater than 40% of mass 198	61.7
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
APICAL	WBN100218-01	s8b2015.d	21-FEB-10 09:21
APICAL	WBN100218-02	s8b2016.d	21-FEB-10 09:52
APICAL	WBN100218-03.1	s8b2017.d	21-FEB-10 10:23
APICAL	WBN100218-04	s8b2018.d	21-FEB-10 10:54
APICAL	WBN100218-05	s8b2019.d	21-FEB-10 11:26
APICAL	WBN100218-06	s8b2020.d	21-FEB-10 11:59
APICAL	WBN100218-07	s8b2021.d	21-FEB-10 12:30
APICV	WBN100218-08.1	s8b2035.d	21-FEB-10 19:53

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1982

Instrument: MSD8.I

STD Analysis Time: 01-MAR-10 12:28

GC Column: J&W DB-5MS

Data File: s8c0102.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	382428		4.32	1513586		5.57	930718		7.43	1722494		9.02	1730470		11.9	1407560		13.9
Upper Limit	764856		4.82	3027172		6.07	1861436		7.93	3444988		9.52	3460940		12.4	2815120		14.4
Lower Limit	191214		3.82	756793		5.07	465359		6.93	861247		8.52	865235		11.4	703780		13.4
Sample ID																		
BLK01	407887		4.31	1530818		5.56	893865		7.42	1594962		9.01	1442616		11.9	1161684		13.9
BLK01LCS	412008		4.31	1550261		5.57	940870		7.42	1727881		9.02	1765079		11.9	1340583		13.9

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: 10-1982

Instrument: MSD8.I

STD Analysis Time: 02-MAR-10 09:35

GC Column: J&W DB-5MS

Data File: s8c0202.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	378003		4.4	1472940		5.66	879992		7.52	1554554		9.12	1456663		12.0	1135773		14.1
Upper Limit	756006		4.9	2945880		6.16	1759984		8.02	3109108		9.62	2913326		12.5	2271546		14.6
Lower Limit	189002		3.9	736470		5.16	439996		7.02	777277		8.62	728332		11.5	567887		13.6
Sample ID																		
RE15-10-8317	437001		4.4	1674070		5.66	1010833		7.52	1809498		9.12	1579580		12.0	1092558		14.1
RE15-10-8317MS	442998		4.4	1693938		5.66	1018772		7.52	1808746		9.12	1527235		12.0	839090		14.1
RE15-10-8317MSD	458356		4.4	1729539		5.66	1058027		7.52	1917293		9.12	1754507		12.0	997950		14.1

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: 10-1982

Instrument: MSD8.I

STD Analysis Time: 03-MAR-10 13:40

GC Column: J&W DB-5MS

Data File: s8c0308.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	337349		4.35	1317433		5.61	787174		7.46	1390793		9.06	1272293		11.9	991553		14.0
Upper Limit	674698		4.85	2634866		6.11	1574348		7.96	2781586		9.56	2544586		12.4	1983106		14.5
Lower Limit	168675		3.85	658717		5.11	393587		6.96	695397		8.56	636147		11.4	495777		13.5
Sample ID																		
RE15-10-8319	458562		4.35	1768186		5.61	1061992		7.46	1822591		9.06	1532239		11.9	1280751		14.0
RE15-10-8316	332073		4.35	1293729		5.61	784760		7.46	1390623		9.06	1306780		11.9	1102162		14.0
RE15-10-8326	467655		4.35	1824224		5.61	1076799		7.46	1965247		9.06	1935945		11.9	1671274		14.0
RE15-10-8318	530958		4.35	2066814		5.61	1216882		7.46	2068855		9.06	1750017		11.9	1460433		14.0

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

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8316
Batch ID: 957838
Run Date: 03/03/2010 20:09
Prep Date: 02/25/2010 21:57
Data File: s8c0321.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.3	347
108-95-2	Phenol	U	347	ug/kg	69.3	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.3	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.3	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.3	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.3	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.6	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.3	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.3	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.3	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.3	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.3	347
95-48-7	o-Cresol	U	347	ug/kg	69.3	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.3	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.3	347
78-59-1	Isophorone	U	347	ug/kg	69.3	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.3	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.3	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.3	347
65-85-0	Benzoic acid	U	693	ug/kg	173	693
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.3	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.3	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.93	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.3	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.3	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.3	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.3	347
99-09-2	<i>o</i> -Nitroaniline	U	347	ug/kg	69.3	347
	3-Nitroaniline					

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

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.06 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	347	ug/kg	69.3	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	693	ug/kg	132	693
132-64-9	Dibenzofuran	U	347	ug/kg	69.3	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.3	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.3	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.3	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.3	347
122-66-7	Azobenzene	U	347	ug/kg	69.3	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.3	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.3	347
85-01-8	Phenanthrene	U	34.7	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.93	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.3	347
206-44-0	Fluoranthene	U	34.7	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.3	347
56-55-3	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.3	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.3	347
205-99-2	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.3	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	1.79	139	ug/kg		J
	Unknown Aldol Condensate	2.97	273	ug/kg		JA

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0321.d
Lab Smp Id: 247791004 Client Smp ID: RE15-10-8316
Inj Date : 03-MAR-2010 20:09
Operator : nagl Inst ID: MSD8.i
Smp Info : |247791004|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.06000	weight of sample
M	4.01680	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	=====	==	=====	=====	=====		(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.354	4.354	(1.000)	332073		40.0000	
* 29 Naphthalene-d8	136	5.611	5.611	(1.000)	1293729		40.0000	
* 46 Acenaphthene-d10	164	7.458	7.463	(1.000)	784760		40.0000	
* 67 Phenanthrene-d10	188	9.058	9.058	(1.000)	1390623		40.0000	
* 91 Chrysene-d12	240	11.939	11.944	(1.000)	1306780		40.0000	
* 98 Perylene-d12	264	13.987	13.992	(1.000)	1102162		40.0000	
\$ 3 2-Fluorophenol	112	3.215	3.201	(0.739)	517586		66.0204	2290
\$ 5 Phenol-d5	99	3.977	3.973	(0.914)	622957		63.7159	2210
\$ 20 Nitrobenzene-d5	82	4.877	4.877	(0.869)	274305		29.8266	1030
\$ 39 2-Fluorobiphenyl	172	6.734	6.735	(0.903)	698601		30.2434	1050
\$ 60 2,4,6-Tribromophenol	329	8.306	8.306	(1.114)	158795		61.2132	2120
\$ 81 p-Terphenyl-d14	244	10.773	10.773	(0.902)	887852		37.7379	1310

ION RATIO REPORT

SV REPORT

Data file: s8c0321.d

Report Date: 03/04/2010 07:09

Lab. ID: 247791004

SampleType: SAMPLE

Injection Date: 03-MAR-2010 20:09

Operator: nag1

Instrument: MSD8.i

Sample Info: |247791004|957838|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01

Comment:

Method used: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline	CAS#: 62-53-3				
66	28811	3.98	4.04	80-120	100	(T)
93	119	4.04	4.04	228-288	0	(Q)

17	N-Nitrosodipropylamine	CAS#: 621-64-7				
70	35543	4.88	4.73	80-120	100	(T)
42	16452	4.88	4.73	20- 80	46	(T)

30	Naphthalene	CAS#: 91-20-3				
128	170	5.62	5.63	80-120	100	()
129	176	5.61	5.63	0- 41	104	(Q)
127	0	0.00	5.63	0- 43	0	(T)

44	2,6-Dinitrotoluene	CAS#: 606-20-2				
165	100830	7.46	7.23	80-120	100	(T)
63	1278	7.46	7.23	21- 81	1	(QT)

50	2,4-Dinitrotoluene	CAS#: 121-14-2				
165	100830	7.46	7.66	80-120	100	(T)
89	1321	7.46	7.66	35- 95	1	(QT)
63	1278	7.46	7.66	16- 76	1	(QT)

55	2-Methyl-4,6-dinitrophenol	CAS#: 534-52-1				
198	511	8.30	8.10	80-120	100	(T)
105	1017	8.30	8.10	7- 67	199	(QT)
51	1080	8.30	8.10	10- 70	211	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
92 Chrysene		CAS#: 218-01-9				
228	3280	11.94	11.97	80-120	100	()
229	663	11.94	11.97	0- 49	20	()
226	264	11.94	11.97	0- 59	8	()

94 Di-n-octylphthalate		CAS#: 117-84-0				
149	6516	12.86	12.82	80-120	100	()
43	784	12.87	12.82	0- 38	12	()

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD8.i/s030310.b/s8c0321.d
Report Date: 04-Mar-2010 07:16

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0321.d
Lab Smp Id: 247791004 Client Smp ID: RE15-10-8316
Inj Date : 03-MAR-2010 20:09
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791004|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.06000	weight of sample
M	4.01680	% moisture

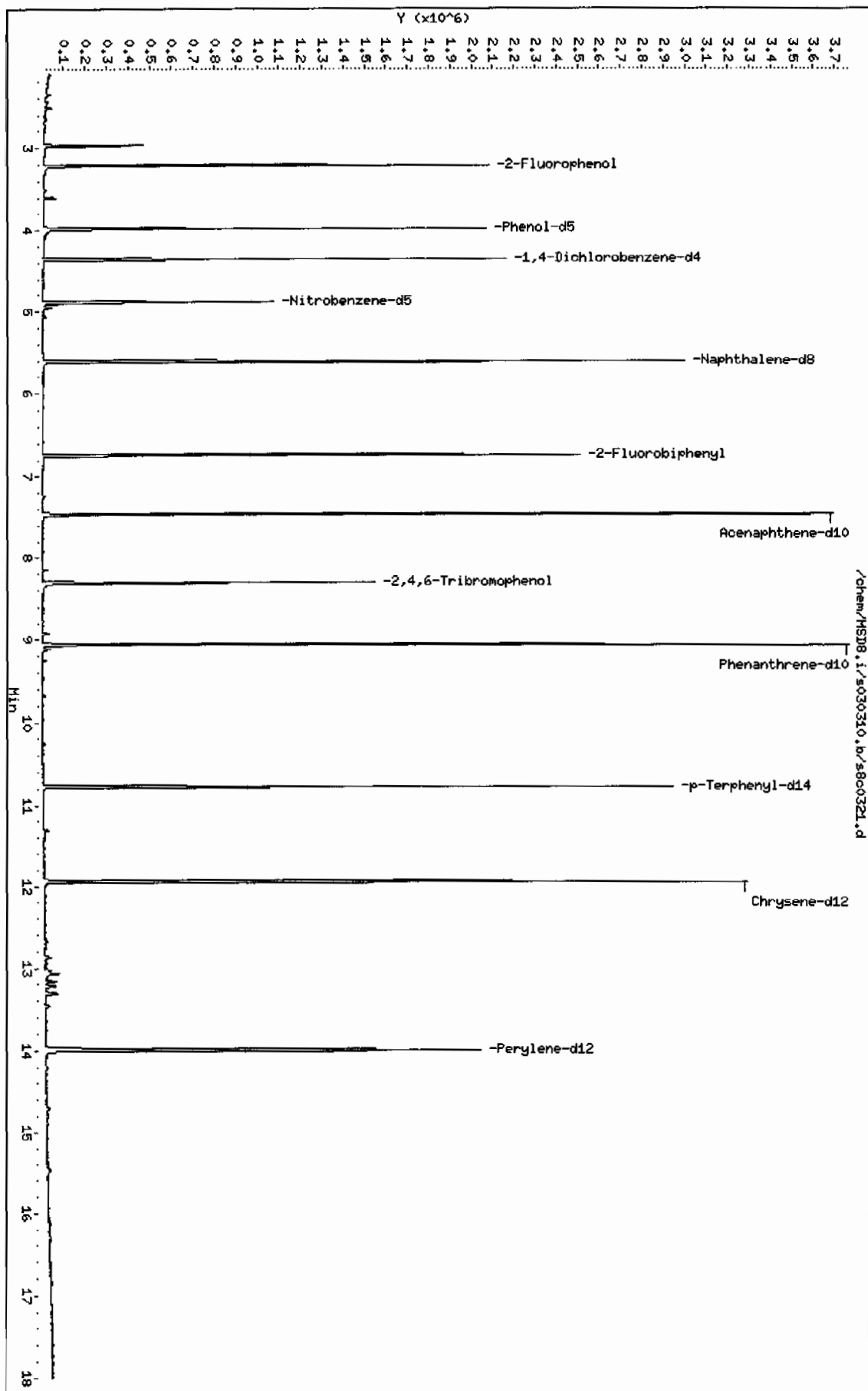
Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.354	1841887	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
1.787	184637	4.00974175	139	0		0	10
Unknown Aldol Condensate					CAS #:		
2.968	362233	7.86657008	273	0		0	10

Data File: /chem/HSD8.i/s030310.b/s800321.d
Date: 03-MAR-2010 20:09
Client ID: RE15-10-8316
Sample Info: 1247791004195783811SVWF11LNL
Volume Injected (uL): 0.5
Column phase: J&W DB-SMS

Instrument: HSD8.i
Operator: nag1
Column diameter: 0.20



Date : 03-MAR-2010 20:09

Client ID: RE15-10-8316

Instrument: MSD8.i

Sample Info: 1247791004195783811SVMF111LANL

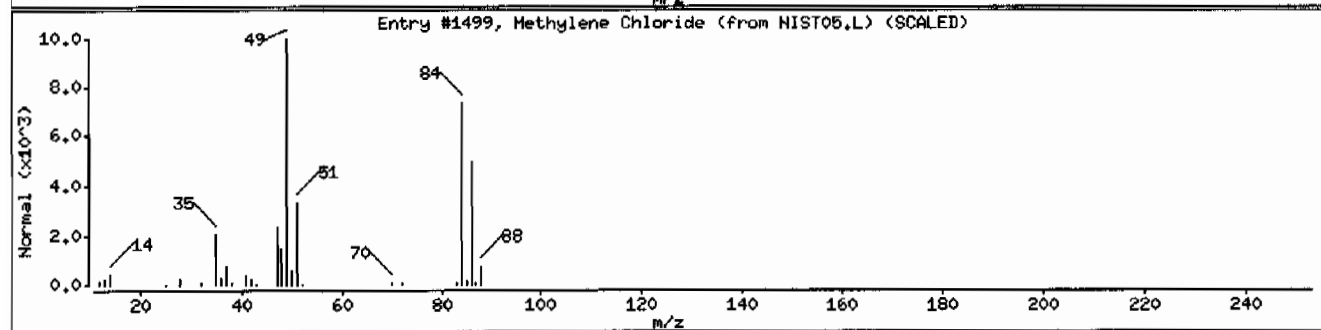
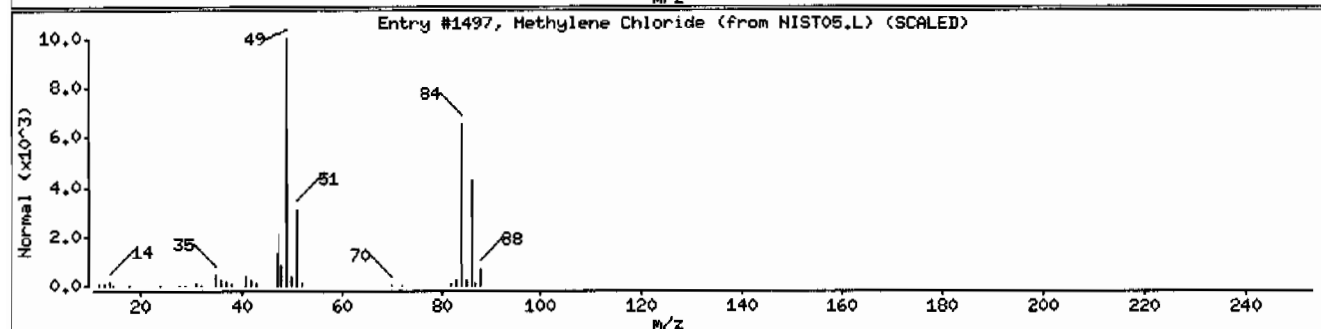
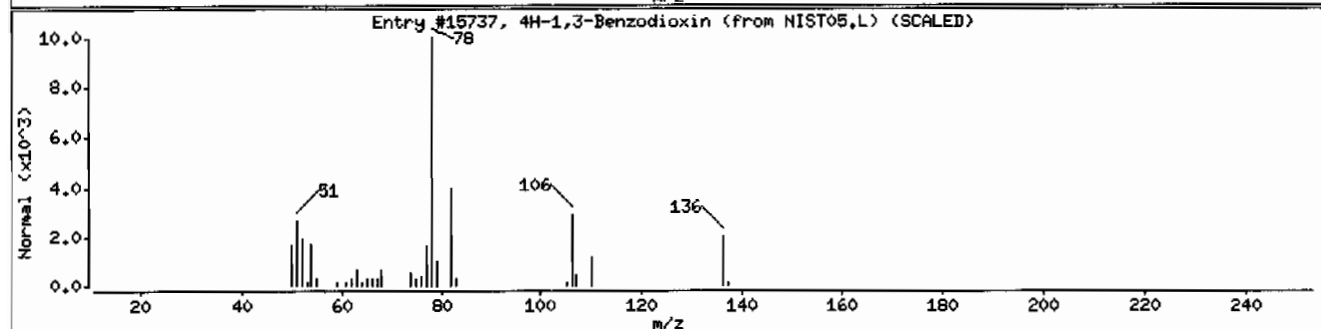
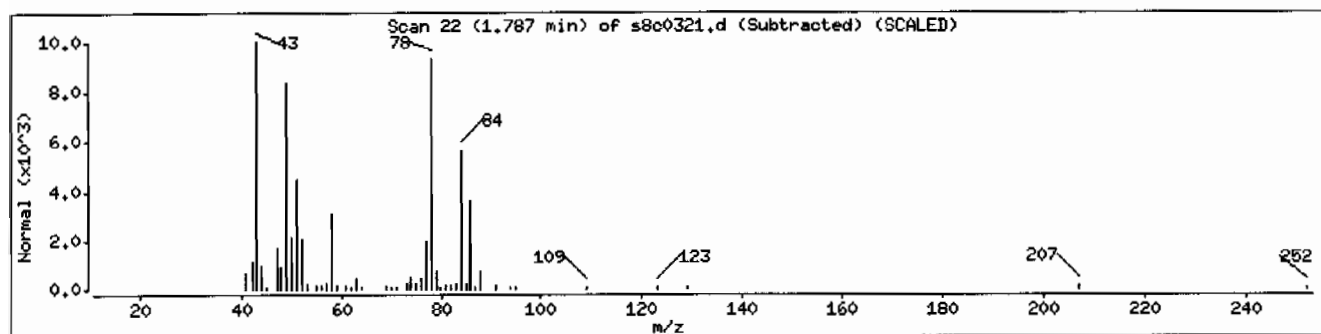
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4H-1,3-Benzodioxin	254-27-3	NIST05.L	15737	50	C8H8O2	136
Methylene Chloride	75-09-2	NIST05.L	1497	46	CH2Cl2	84
Methylene Chloride	75-09-2	NIST05.L	1499	46	CH2Cl2	84



Date : 03-MAR-2010 20:09

Client ID: RE15-10-8316

Instrument: MSD8.i

Sample Info: 1247791004195783811SVMF11ILANL

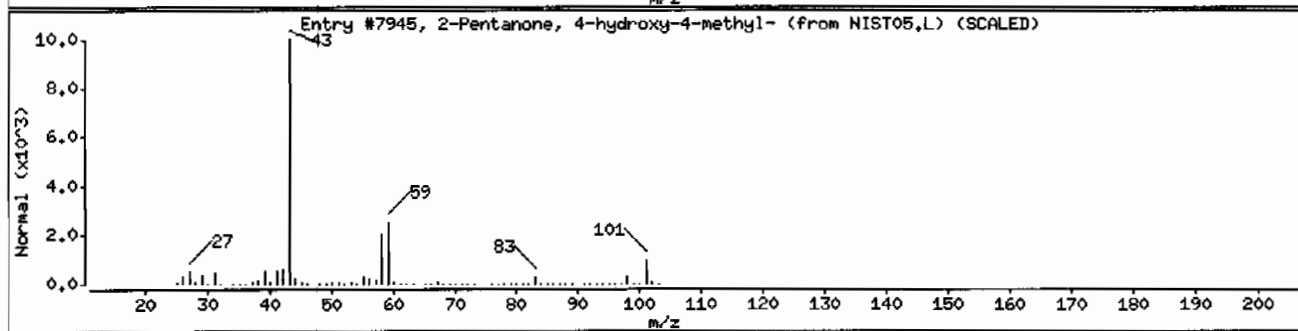
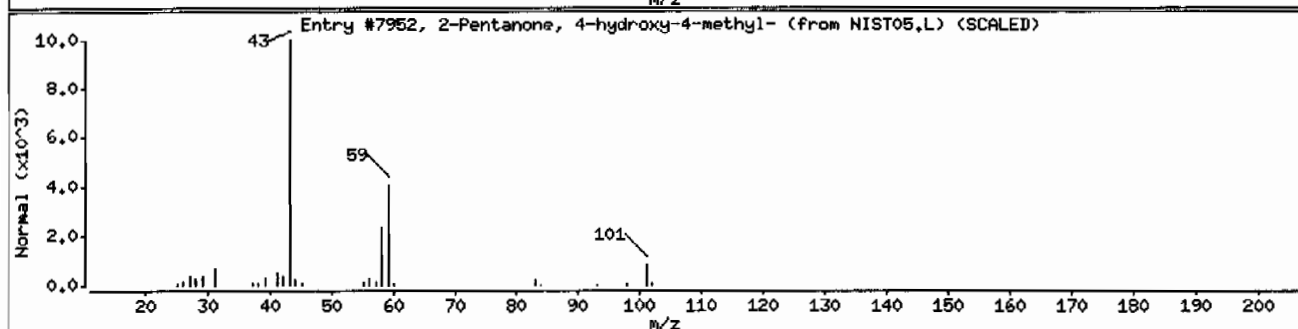
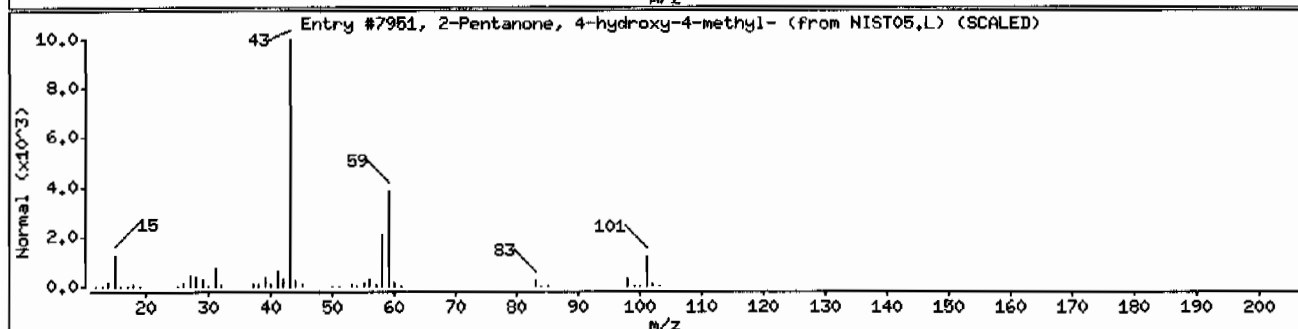
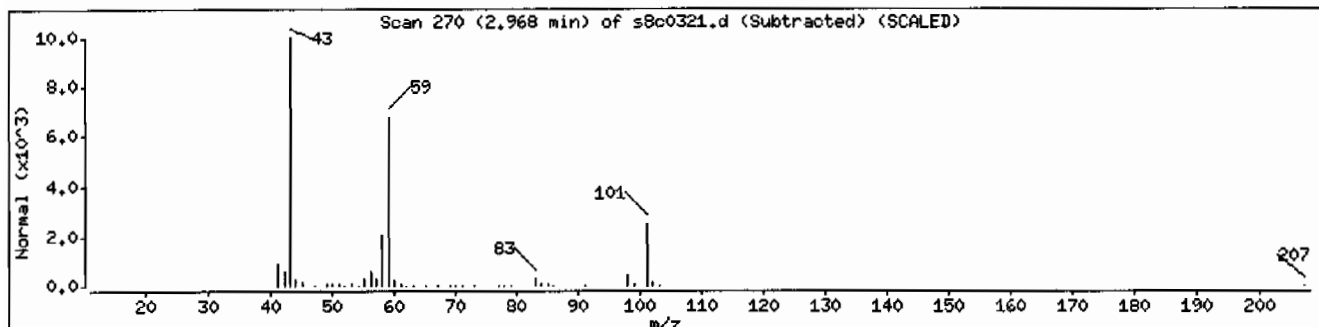
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	72	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	40	C6H12O2	116



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

SDG Number: 10-1982
Lab Sample ID: 247791002

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.05 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 6.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	355	ug/kg	71.1	355
108-95-2	Phenol	U	355	ug/kg	71.1	355
95-57-8	2-Chlorophenol	U	355	ug/kg	71.1	355
106-46-7	1,4-Dichlorobenzene	U	355	ug/kg	71.1	355
621-64-7	N-Nitrosodipropylamine	U	355	ug/kg	71.1	355
59-50-7	4-Chloro-3-methylphenol	U	355	ug/kg	71.1	355
83-32-9	Acenaphthene	U	35.5	ug/kg	11.7	35.5
121-14-2	2,4-Dinitrotoluene	U	355	ug/kg	35.5	355
100-02-7	4-Nitrophenol	U	355	ug/kg	117	355
87-86-5	Pentachlorophenol	U	355	ug/kg	88.8	355
129-00-0	Pyrene	U	35.5	ug/kg	10.7	35.5
110-86-1	Pyridine	U	355	ug/kg	71.1	355
62-53-3	Aniline	U	355	ug/kg	107	355
111-44-4	bis(2-Chloroethyl) ether	U	355	ug/kg	71.1	355
541-73-1	1,3-Dichlorobenzene	U	355	ug/kg	71.1	355
100-51-6	Benzyl alcohol	U	355	ug/kg	107	355
95-50-1	1,2-Dichlorobenzene	U	355	ug/kg	71.1	355
108-60-1	bis(2-Chloroisopropyl)ether	U	355	ug/kg	71.1	355
95-48-7	o-Cresol	U	355	ug/kg	71.1	355
65794-96-9	m,p-Cresols	U	355	ug/kg	107	355
67-72-1	Hexachloroethane	U	355	ug/kg	71.1	355
98-95-3	Nitrobenzene	U	355	ug/kg	71.1	355
78-59-1	Isophorone	U	355	ug/kg	71.1	355
88-75-5	2-Nitrophenol	U	355	ug/kg	71.1	355
105-67-9	2,4-Dimethylphenol	U	355	ug/kg	124	355
111-91-1	bis(2-Chloroethoxy)methane	U	355	ug/kg	71.1	355
120-83-2	2,4-Dichlorophenol	U	355	ug/kg	71.1	355
65-85-0	Benzoic acid	U	711	ug/kg	178	711
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
106-47-8	4-Chloroaniline	U	355	ug/kg	71.1	355
87-68-3	Hexachlorobutadiene	U	355	ug/kg	71.1	355
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
77-47-4	Hexachlorocyclopentadiene	U	355	ug/kg	71.1	355
88-06-2	2,4,6-Trichlorophenol	U	355	ug/kg	71.1	355
95-95-4	2,4,5-Trichlorophenol	U	355	ug/kg	71.1	355
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	11.7	35.5
88-74-4	2-Nitroaniline	U	355	ug/kg	71.1	355
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	355	ug/kg	71.1	355

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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791002	Date Received: 02/23/2010 08:50	%Moisture: 6.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8317	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/02/2010 18:36	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.05 g	Final Volume: 1 mL
Data File: s8c0220.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	355	ug/kg	71.1	355
606-20-2	2,6-Dinitrotoluene	U	355	ug/kg	35.5	355
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
51-28-5	2,4-Dinitrophenol	U	711	ug/kg	135	711
132-64-9	Dibenzofuran	U	355	ug/kg	71.1	355
84-66-2	Diethylphthalate	U	355	ug/kg	71.1	355
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
7005-72-3	4-Chlorophenylphenylether	U	355	ug/kg	71.1	355
534-52-1	2-Methyl-4,6-dinitrophenol	U	355	ug/kg	71.1	355
100-01-6	4-Nitroaniline	U	355	ug/kg	107	355
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	355	ug/kg	71.1	355
122-66-7	Azobenzene	U	355	ug/kg	71.1	355
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	355	ug/kg	71.1	355
118-74-1	Hexachlorobenzene	U	355	ug/kg	71.1	355
85-01-8	Phenanthrene	U	35.5	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
84-74-2	Di-n-butylphthalate	U	355	ug/kg	71.1	355
206-44-0	Fluoranthene	U	35.5	ug/kg	10.7	35.5
85-68-7	Butylbenzylphthalate	U	355	ug/kg	71.1	355
56-55-3	Benzo(a)anthracene	U	35.5	ug/kg	10.7	35.5
91-94-1	3,3'-Dichlorobenzidine	U	355	ug/kg	107	355
218-01-9	Chrysene	U	35.5	ug/kg	10.7	35.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	355	ug/kg	71.1	355
117-84-0	Di-n-octylphthalate	U	355	ug/kg	71.1	355
205-99-2	Benzo(b)fluoranthene	U	35.5	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	U	35.5	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5
120-82-1	1,2,4-Trichlorobenzene	U	355	ug/kg	71.1	355

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3.03	254	ug/kg		JA

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0220.d
Lab Smp Id: 247791002 Client Smp ID: RE15-10-8317
Inj Date : 02-MAR-2010 18:36
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791002|957838|1|SVM|1|LANL
Misc Info : |MSD5C70D_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 20:07 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: hpc1pl

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	30.05000	weight of sample
M	6.34340	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.401	4.401	(1.000)	437001	40.0000	
* 29 Naphthalene-d8	136	5.658	5.663	(1.000)	1674070	40.0000	
* 46 Acenaphthene-d10	164	7.515	7.520	(1.000)	1010833	40.0000	
* 67 Phenanthrene-d10	188	9.115	9.115	(1.000)	1809498	40.0000	
* 91 Chrysene-d12	240	12.011	12.011	(1.000)	1579580	40.0000	
* 98 Perylene-d12	264	14.087	14.092	(1.000)	1092558	40.0000	
\$ 3 2-Fluorophenol	112	3.263	3.253	(0.741)	558260	54.1107	1920
\$ 5 Phenol-d5	99	4.025	4.025	(0.915)	634062	49.2802	1750
\$ 20 Nitrobenzene-d5	82	4.925	4.934	(0.870)	306961	25.7942	916
\$ 39 2-Fluorobiphenyl	172	6.787	6.787	(0.903)	754128	25.3456	900
\$ 60 2,4,6-Tribromophenol	329	8.358	8.363	(1.112)	145533	43.5539	1550
\$ 81 p-Terphenyl-d14	244	10.830	10.830	(0.902)	892253	31.3751	1110

ION RATIO REPORT

SV REPORT

Data file: s8c0220.d

Report Date: 03/03/2010 06:58

Lab. ID: 247791002

SampleType: SAMPLE

Injection Date: 02-MAR-2010 18:36

Operator: nag1

Instrument: MSD8.i

Sample Info: |247791002|957838|1|SVM|1|LANL

Miscellaneous Info: |MSD5C70D_S|WBN100227-01

Comment:

Method used: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	40638	4.92	4.79	80-120	100	(T)
42	18256	4.92	4.79	21- 81	45	(T)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	131132	7.52	7.29	80-120	100	(T)
63	1648	7.52	7.29	22- 82	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	131132	7.52	7.72	80-120	100	(T)
89	1514	7.52	7.72	36- 96	1	(QT)
63	1648	7.52	7.72	18- 78	1	(QT)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	386	8.35	8.15	80-120	100	(T)
105	904	8.35	8.15	7- 67	234	(QT)
51	633	8.35	8.15	7- 67	164	(QT)

92 Chrysene				CAS#: 218-01-9		
228	3890	12.01	12.04	80-120	100	()
229	887	12.01	12.04	0- 49	23	()
226	201	12.00	12.04	0- 58	5	()

94 Di-n-octylphthalate				CAS#: 117-84-0		
149	228	12.89	12.89	80-120	100	()
43	280	12.87	12.89	0- 37	123	(Q)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD8.i/s030210.b/s8c0220.d
Report Date: 03-Mar-2010 07:05

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0220.d
Lab Smp Id: 247791002 Client Smp ID: RE15-10-8317
Inj Date : 02-MAR-2010 18:36
Operator : nagl Inst ID: MSD8.i
Smp Info : |247791002|957838|1|SVM|1|LANL
Misc Info : |MSD5C70D_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 20:07 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.05000	weight of sample
M	6.34340	% moisture

Cpnd Variable

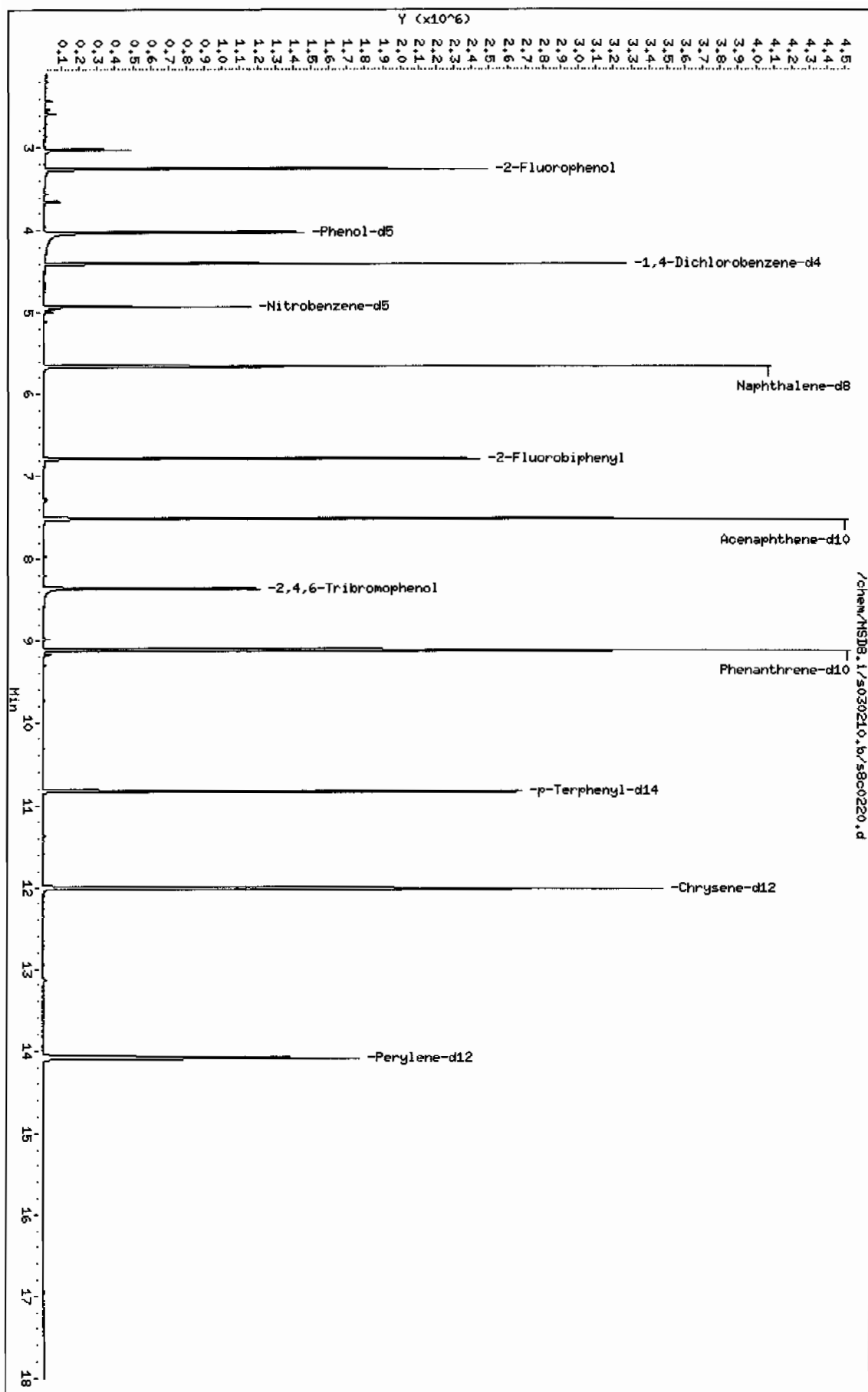
Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.401	2390566	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate							
3.030	427662	7.15583087	254	0		0	10

Data File: /chem/HSD8.1/s030210.b/s8c0220.d
 Date: 02-MAR-2010 18:36
 Client ID: RE15-10-8317
 Sample Info: 1247791002195783811.SMH11L.ANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD8.1
 Operator: nag1
 Column diameter: 0.20



Date : 02-MAR-2010 18:36

Client ID: RE15-10-8317

Instrument: MSD8.i

Sample Info: 1247791002196783811ISVM11ILANL

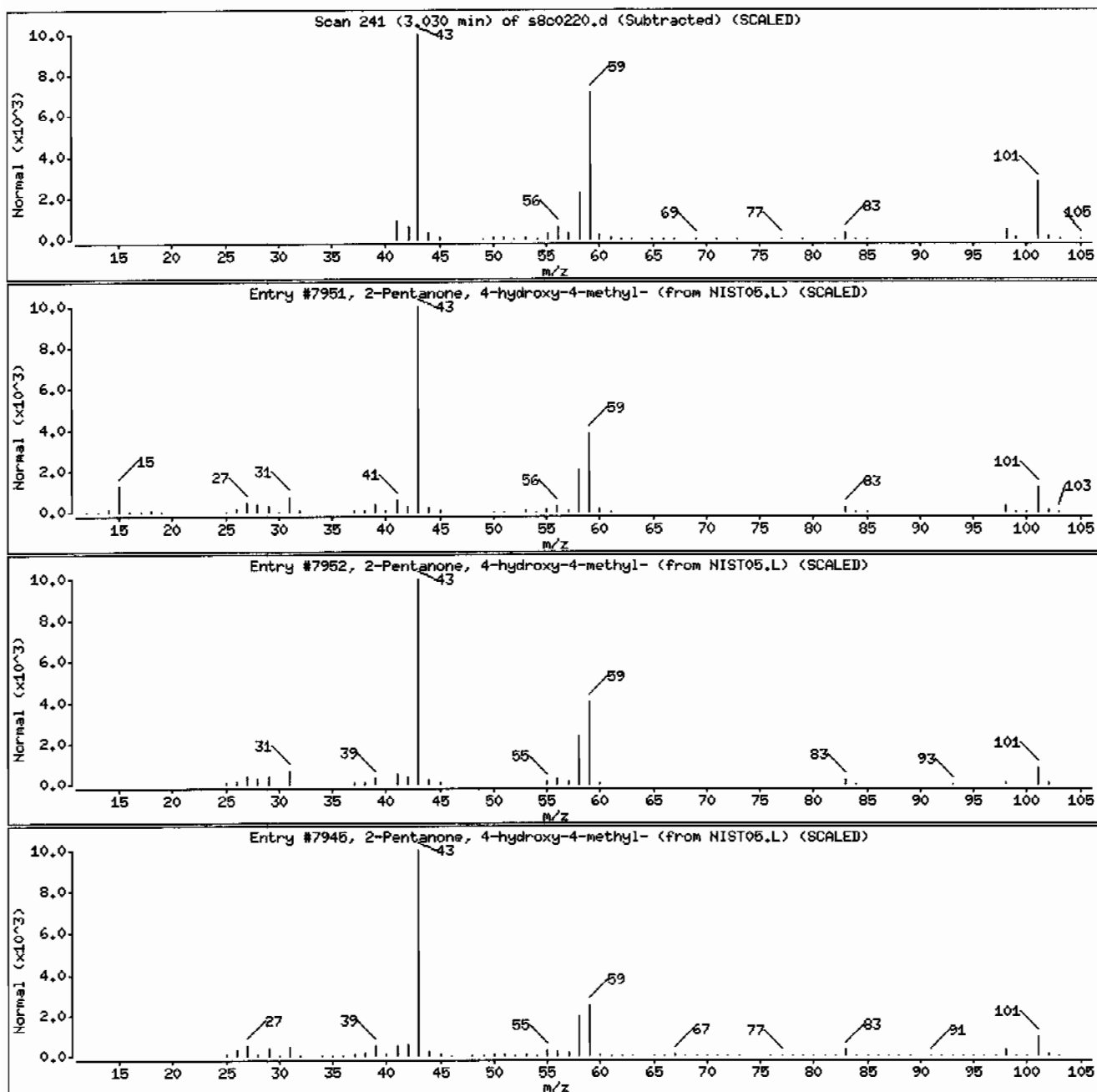
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	72	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	40	C6H12O2	116



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

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 957838
Run Date: 03/03/2010 21:08
Prep Date: 02/25/2010 21:57
Data File: s8c0323.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	349	ug/kg	69.7	349
108-95-2	Phenol	U	349	ug/kg	69.7	349
95-57-8	2-Chlorophenol	U	349	ug/kg	69.7	349
106-46-7	1,4-Dichlorobenzene	U	349	ug/kg	69.7	349
621-64-7	N-Nitrosodipropylamine	U	349	ug/kg	69.7	349
59-50-7	4-Chloro-3-methylphenol	U	349	ug/kg	69.7	349
83-32-9	Acenaphthene	U	34.9	ug/kg	11.5	34.9
121-14-2	2,4-Dinitrotoluene	U	349	ug/kg	34.9	349
100-02-7	4-Nitrophenol	U	349	ug/kg	115	349
87-86-5	Pentachlorophenol	U	349	ug/kg	87.2	349
129-00-0	Pyrene	U	34.9	ug/kg	10.5	34.9
110-86-1	Pyridine	U	349	ug/kg	69.7	349
62-53-3	Aniline	U	349	ug/kg	105	349
111-44-4	bis(2-Chloroethyl) ether	U	349	ug/kg	69.7	349
541-73-1	1,3-Dichlorobenzene	U	349	ug/kg	69.7	349
100-51-6	Benzyl alcohol	U	349	ug/kg	105	349
95-50-1	1,2-Dichlorobenzene	U	349	ug/kg	69.7	349
108-60-1	bis(2-Chloroisopropyl)ether	U	349	ug/kg	69.7	349
95-48-7	o-Cresol	U	349	ug/kg	69.7	349
65794-96-9	m,p-Cresols	U	349	ug/kg	105	349
67-72-1	Hexachloroethane	U	349	ug/kg	69.7	349
98-95-3	Nitrobenzene	U	349	ug/kg	69.7	349
78-59-1	Isophorone	U	349	ug/kg	69.7	349
88-75-5	2-Nitrophenol	U	349	ug/kg	69.7	349
105-67-9	2,4-Dimethylphenol	U	349	ug/kg	122	349
111-91-1	bis(2-Chloroethoxy)methane	U	349	ug/kg	69.7	349
120-83-2	2,4-Dichlorophenol	U	349	ug/kg	69.7	349
65-85-0	Benzoic acid	U	697	ug/kg	174	697
91-20-3	Naphthalene	U	34.9	ug/kg	10.5	34.9
106-47-8	4-Chloroaniline	U	349	ug/kg	69.7	349
87-68-3	Hexachlorobutadiene	U	349	ug/kg	69.7	349
91-57-6	2-Methylnaphthalene	U	34.9	ug/kg	6.97	34.9
77-47-4	Hexachlorocyclopentadiene	U	349	ug/kg	69.7	349
88-06-2	2,4,6-Trichlorophenol	U	349	ug/kg	69.7	349
95-95-4	2,4,5-Trichlorophenol	U	349	ug/kg	69.7	349
91-58-7	2-Chloronaphthalene	U	34.9	ug/kg	11.5	34.9
88-74-4	2-Nitroaniline	U	349	ug/kg	69.7	349
99-09-2	o-Nitroaniline					
	3-Nitroaniline	U	349	ug/kg	69.7	349

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

SDG Number: 10-1982
Lab Sample ID: 247791006

Client ID: RE15-10-8318
Batch ID: 957838
Run Date: 03/03/2010 21:08
Prep Date: 02/25/2010 21:57
Data File: s8c0323.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	349	ug/kg	69.7	349
606-20-2	2,6-Dinitrotoluene	U	349	ug/kg	34.9	349
208-96-8	Acenaphthylene	U	34.9	ug/kg	10.5	34.9
51-28-5	2,4-Dinitrophenol	U	697	ug/kg	133	697
132-64-9	Dibenzofuran	U	349	ug/kg	69.7	349
84-66-2	Diethylphthalate	U	349	ug/kg	69.7	349
86-73-7	Fluorene	U	34.9	ug/kg	10.5	34.9
7005-72-3	4-Chlorophenylphenylether	U	349	ug/kg	69.7	349
534-52-1	2-Methyl-4,6-dinitrophenol	U	349	ug/kg	69.7	349
100-01-6	4-Nitroaniline	U	349	ug/kg	105	349
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	349	ug/kg	69.7	349
122-66-7	Azobenzene	U	349	ug/kg	69.7	349
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	349	ug/kg	69.7	349
118-74-1	Hexachlorobenzene	U	349	ug/kg	69.7	349
85-01-8	Phenanthrene	U	34.9	ug/kg	10.5	34.9
120-12-7	Anthracene	U	34.9	ug/kg	6.97	34.9
84-74-2	Di-n-butylphthalate	U	349	ug/kg	69.7	349
206-44-0	Fluoranthene	U	34.9	ug/kg	10.5	34.9
85-68-7	Butylbenzylphthalate	U	349	ug/kg	69.7	349
56-55-3	Benzo(a)anthracene	U	34.9	ug/kg	10.5	34.9
91-94-1	3,3'-Dichlorobenzidine	U	349	ug/kg	105	349
218-01-9	Chrysene	U	34.9	ug/kg	10.5	34.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	349	ug/kg	69.7	349
117-84-0	Di-n-octylphthalate	U	349	ug/kg	69.7	349
205-99-2	Benzo(b)fluoranthene	U	34.9	ug/kg	10.5	34.9
207-08-9	Benzo(k)fluoranthene	U	34.9	ug/kg	10.5	34.9
50-32-8	Benzo(a)pyrene	U	34.9	ug/kg	10.5	34.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.9	ug/kg	10.5	34.9
53-70-3	Dibenzo(a,h)anthracene	U	34.9	ug/kg	10.5	34.9
191-24-2	Benzo(ghi)perylene	U	34.9	ug/kg	10.5	34.9
120-82-1	1,2,4-Trichlorobenzene	U	349	ug/kg	69.7	349

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	190	ug/kg		JA

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0323.d
Lab Smp Id: 247791006 Client Smp ID: RE15-10-8318
Inj Date : 03-MAR-2010 21:08
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791006|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.04000	weight of sample
M	4.54580	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.353	4.354	(1.000)	530958	40.0000	
* 29 Naphthalene-d8	136	5.611	5.611	(1.000)	2066814	40.0000	
* 46 Acenaphthene-d10	164	7.463	7.463	(1.000)	1216882	40.0000	
* 67 Phenanthrene-d10	188	9.058	9.058	(1.000)	2068855	40.0000	
* 91 Chrysene-d12	240	11.939	11.944	(1.000)	1750017	40.0000	
* 98 Perylene-d12	264	13.992	13.992	(1.000)	1460433	40.0000	
\$ 3 2-Fluorophenol	112	3.215	3.201	(0.739)	655721	52.3104	1820
\$ 5 Phenol-d5	99	3.977	3.973	(0.914)	794694	50.8350	1770
\$ 20 Nitrobenzene-d5	82	4.877	4.877	(0.869)	345477	23.5142	820
\$ 39 2-Fluorobiphenyl	172	6.734	6.735	(0.902)	852524	23.8010	830
\$ 60 2,4,6-Tribromophenol	329	8.306	8.306	(1.113)	183274	45.5614	1590
\$ 81 p-Terphenyl-d14	244	10.773	10.773	(0.902)	995349	31.5916	1100

ION RATIO REPORT

SV REPORT

Data file: s8c0323.d

Report Date: 03/04/2010 07:09

Lab. ID: 247791006

SampleType: SAMPLE

Injection Date: 03-MAR-2010 21:08

Operator: nagl

Instrument: MSD8.i

Sample Info: |247791006|957838|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01

Comment:

Method used: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
17 N-Nitrosodipropylamine				CAS#: 621-64-7		
70	45226	4.88	4.73	80-120	100	(T)
42	20412	4.88	4.73	20- 80	45	(T)

44 2,6-Dinitrotoluene				CAS#: 606-20-2		
165	155951	7.46	7.23	80-120	100	(T)
63	2107	7.46	7.23	21- 81	1	(QT)

50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	155951	7.46	7.66	80-120	100	(T)
89	1865	7.46	7.66	35- 95	1	(QT)
63	2107	7.46	7.66	16- 76	1	(QT)

55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	572	8.30	8.10	80-120	100	(T)
105	1027	8.30	8.10	7- 67	179	(QT)
51	893	8.30	8.10	10- 70	156	(QT)

92 Chrysene				CAS#: 218-01-9		
228	136	11.97	11.97	80-120	100	()
229	987	11.94	11.97	0- 49	722	(Q)
226	368	11.94	11.97	0- 59	269	(Q)

94 Di-n-octylphthalate				CAS#: 117-84-0		
149	201	12.77	12.82	80-120	100	()
43	368	12.78	12.82	0- 38	183	(Q)

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0323.d
Lab Smp Id: 247791006 Client Smp ID: RE15-10-8318
Inj Date : 03-MAR-2010 21:08
Operator : nagl Inst ID: MSD8.i
Smp Info : |247791006|957838|1|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.04000	weight of sample
M	4.54580	% moisture

Cpnd Variable Local Compound Variable

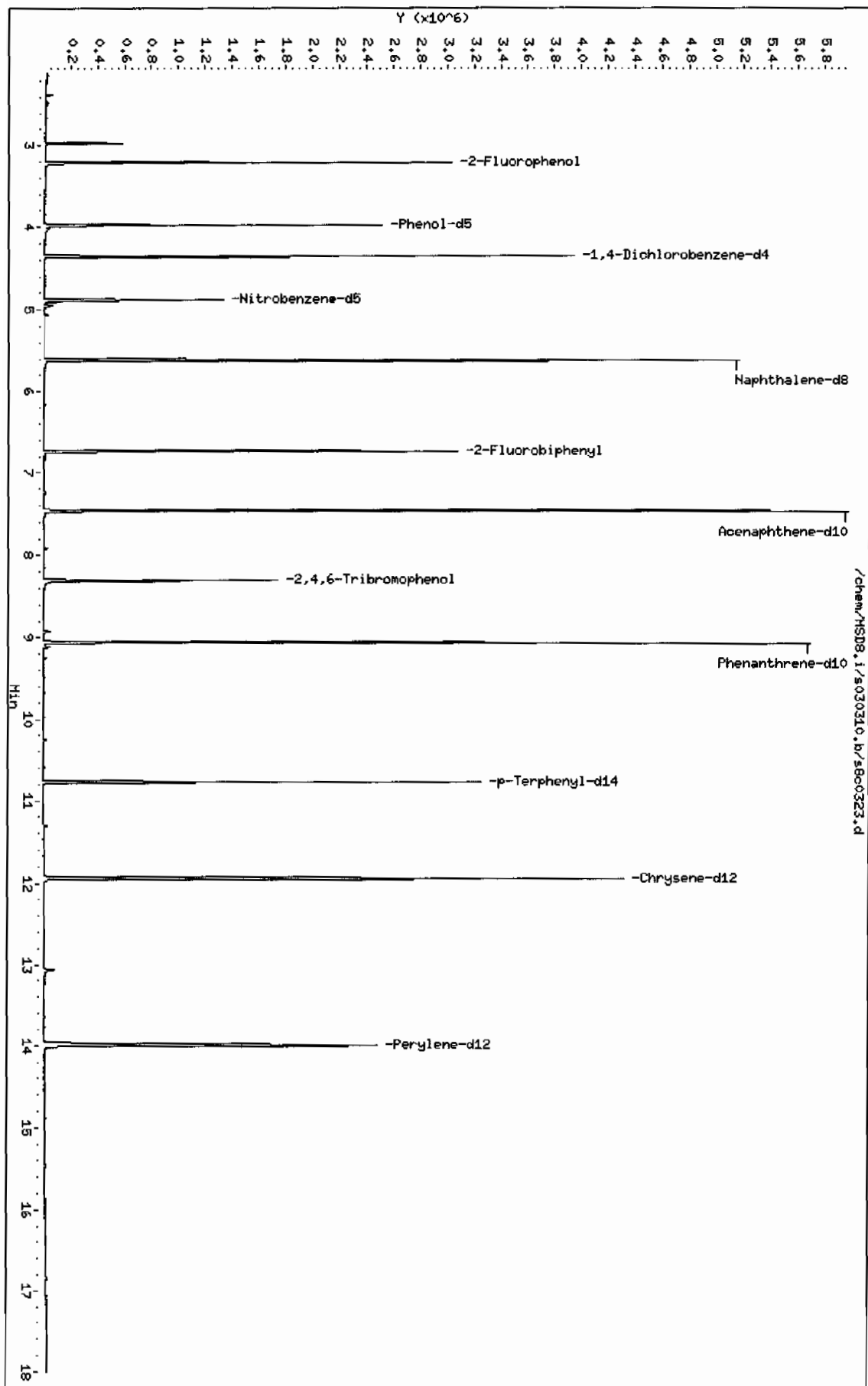
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.353	2935214	40.000

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

Unknown Aldol Condensate				CAS #:			
2.972	399848	5.44897366	190	0		0	10

Data File: /chem/HSD8.1/5030310.b/s8c0323.d
 Date: 03-MAR-2010 21:08
 Client ID: RE15-10-8318
 Sample Info: 1247791006195783811|SMF11|LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD8.1
 Operator: nag1
 Column diameter: 0.20



Date : 03-MAR-2010 21:08

Client ID: RE15-10-8318

Instrument: MSD8.i

Sample Info: 1247791006195783811SVMF111LANL

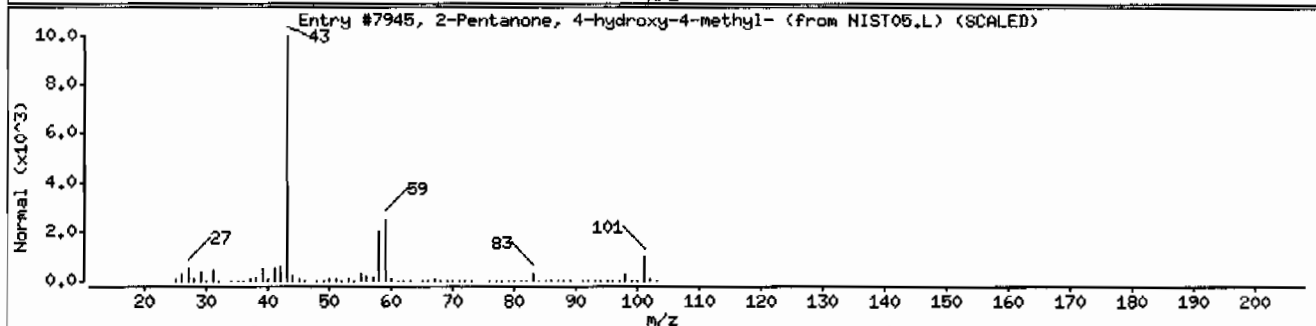
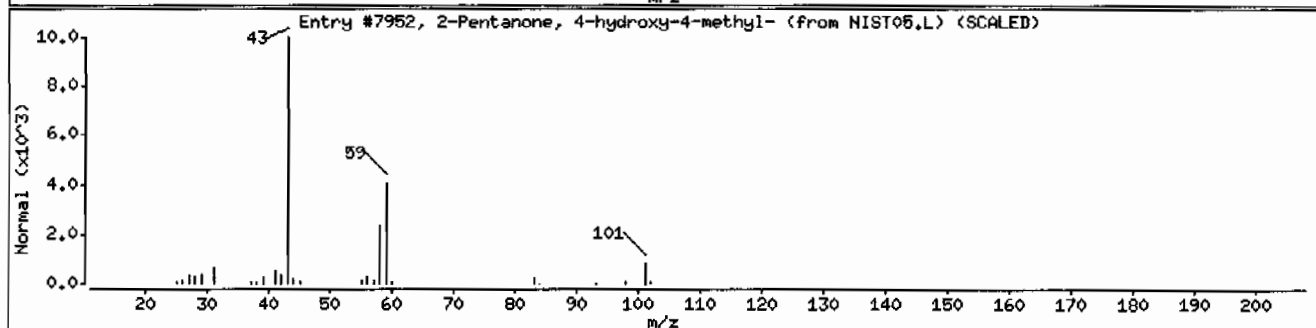
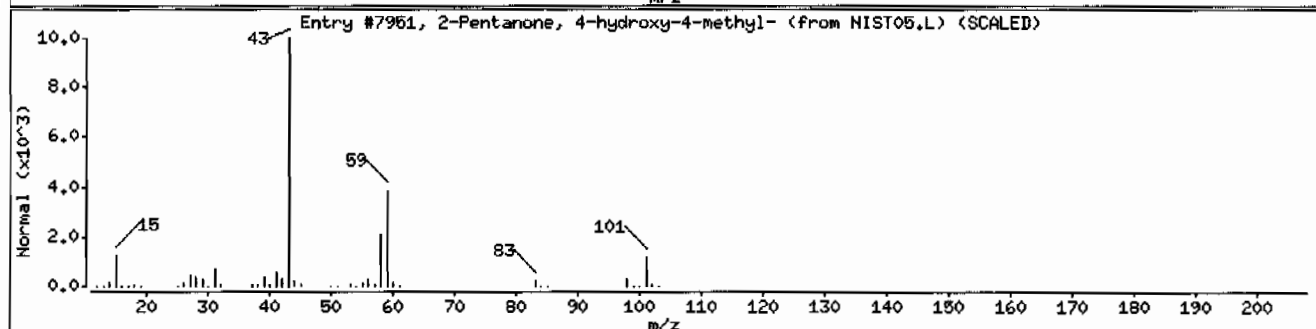
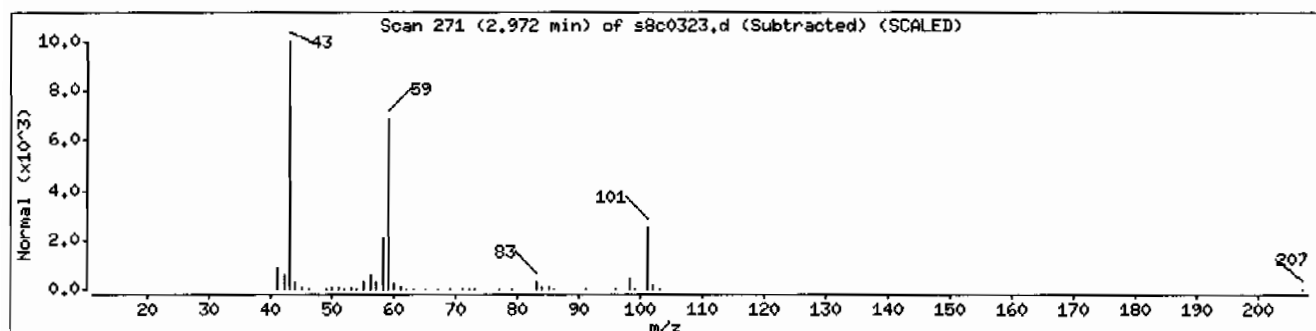
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	53	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	40	C6H12O2	116



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791003

Client ID: RE15-10-8319
Batch ID: 957838
Run Date: 03/03/2010 19:39
Prep Date: 02/25/2010 21:57
Data File: s8c0320.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.07 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.3
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	344	ug/kg	68.8	344
108-95-2	Phenol	U	344	ug/kg	68.8	344
95-57-8	2-Chlorophenol	U	344	ug/kg	68.8	344
106-46-7	1,4-Dichlorobenzene	U	344	ug/kg	68.8	344
621-64-7	N-Nitrosodipropylamine	U	344	ug/kg	68.8	344
59-50-7	4-Chloro-3-methylphenol	U	344	ug/kg	68.8	344
83-32-9	Acenaphthene	U	34.4	ug/kg	11.3	34.4
121-14-2	2,4-Dinitrotoluene	U	344	ug/kg	34.4	344
100-02-7	4-Nitrophenol	U	344	ug/kg	113	344
87-86-5	Pentachlorophenol	U	344	ug/kg	86.0	344
129-00-0	Pyrene	U	34.4	ug/kg	10.3	34.4
110-86-1	Pyridine	U	344	ug/kg	68.8	344
62-53-3	Aniline	U	344	ug/kg	103	344
111-44-4	bis(2-Chloroethyl) ether	U	344	ug/kg	68.8	344
541-73-1	1,3-Dichlorobenzene	U	344	ug/kg	68.8	344
100-51-6	Benzyl alcohol	U	344	ug/kg	103	344
95-50-1	1,2-Dichlorobenzene	U	344	ug/kg	68.8	344
108-60-1	bis(2-Chloroisopropyl)ether	U	344	ug/kg	68.8	344
95-48-7	o-Cresol	U	344	ug/kg	68.8	344
65794-96-9	m,p-Cresols	U	344	ug/kg	103	344
67-72-1	Hexachloroethane	U	344	ug/kg	68.8	344
98-95-3	Nitrobenzene	U	344	ug/kg	68.8	344
78-59-1	Isophorone	U	344	ug/kg	68.8	344
88-75-5	2-Nitrophenol	U	344	ug/kg	68.8	344
105-67-9	2,4-Dimethylphenol	U	344	ug/kg	120	344
111-91-1	bis(2-Chloroethoxy)methane	U	344	ug/kg	68.8	344
120-83-2	2,4-Dichlorophenol	U	344	ug/kg	68.8	344
65-85-0	Benzoic acid	U	688	ug/kg	172	688
91-20-3	Naphthalene	U	34.4	ug/kg	10.3	34.4
106-47-8	4-Chloroaniline	U	344	ug/kg	68.8	344
87-68-3	Hexachlorobutadiene	U	344	ug/kg	68.8	344
91-57-6	2-Methylnaphthalene	U	34.4	ug/kg	6.88	34.4
77-47-4	Hexachlorocyclopentadiene	U	344	ug/kg	68.8	344
88-06-2	2,4,6-Trichlorophenol	U	344	ug/kg	68.8	344
95-95-4	2,4,5-Trichlorophenol	U	344	ug/kg	68.8	344
91-58-7	2-Chloronaphthalene	U	34.4	ug/kg	11.3	34.4
88-74-4	2-Nitroaniline	U	344	ug/kg	68.8	344
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	344	ug/kg	68.8	344

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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 247791003	Date Received: 02/23/2010 08:50	%Moisture: 3.3
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-8319	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/03/2010 19:39	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.07 g	Final Volume: 1 mL
Data File: s8c0320.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	344	ug/kg	68.8	344
606-20-2	2,6-Dinitrotoluene	U	344	ug/kg	34.4	344
208-96-8	Acenaphthylene	U	34.4	ug/kg	10.3	34.4
51-28-5	2,4-Dinitrophenol	U	688	ug/kg	131	688
132-64-9	Dibenzofuran	U	344	ug/kg	68.8	344
84-66-2	Diethylphthalate	U	344	ug/kg	68.8	344
86-73-7	Fluorene	U	34.4	ug/kg	10.3	34.4
7005-72-3	4-Chlorophenylphenylether	U	344	ug/kg	68.8	344
534-52-1	2-Methyl-4,6-dinitrophenol	U	344	ug/kg	68.8	344
100-01-6	4-Nitroaniline	U	344	ug/kg	103	344
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	344	ug/kg	68.8	344
122-66-7	Azobenzene	U	344	ug/kg	68.8	344
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	344	ug/kg	68.8	344
118-74-1	Hexachlorobenzene	U	344	ug/kg	68.8	344
85-01-8	Phenanthrene	U	34.4	ug/kg	10.3	34.4
120-12-7	Anthracene	U	34.4	ug/kg	6.88	34.4
84-74-2	Di-n-butylphthalate	U	344	ug/kg	68.8	344
206-44-0	Fluoranthene	U	34.4	ug/kg	10.3	34.4
85-68-7	Butylbenzylphthalate	U	344	ug/kg	68.8	344
56-55-3	Benzo(a)anthracene	U	34.4	ug/kg	10.3	34.4
91-94-1	3,3'-Dichlorobenzidine	U	344	ug/kg	103	344
218-01-9	Chrysene	U	34.4	ug/kg	10.3	34.4
117-81-7	bis(2-Ethylhexyl)phthalate	U	344	ug/kg	68.8	344
117-84-0	Di-n-octylphthalate	U	344	ug/kg	68.8	344
205-99-2	Benzo(b)fluoranthene	U	34.4	ug/kg	10.3	34.4
207-08-9	Benzo(k)fluoranthene	U	34.4	ug/kg	10.3	34.4
50-32-8	Benzo(a)pyrene	U	34.4	ug/kg	10.3	34.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.4	ug/kg	10.3	34.4
53-70-3	Dibenzo(a,h)anthracene	U	34.4	ug/kg	10.3	34.4
191-24-2	Benzo(ghi)perylene	U	34.4	ug/kg	10.3	34.4
120-82-1	1,2,4-Trichlorobenzene	U	344	ug/kg	68.8	344

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	244	ug/kg		JA

Data File: /chem/MSD8.i/s030310.b/s8c0320.d
Report Date: 04-Mar-2010 07:16

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0320.d
Lab Smp Id: 247791003 Client Smp ID: RE15-10-8319
Inj Date : 03-MAR-2010 19:39
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791003|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: hpc1p1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.07000	weight of sample
M	3.28180	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.353	4.354	(1.000)	458562	40.0000	
* 29 Naphthalene-d8	136	5.611	5.611	(1.000)	1768186	40.0000	
* 46 Acenaphthene-d10	164	7.463	7.463	(1.000)	1061992	40.0000	
* 67 Phenanthrene-d10	188	9.058	9.058	(1.000)	1822591	40.0000	
* 91 Chrysene-d12	240	11.939	11.944	(1.000)	1532239	40.0000	
* 98 Perylene-d12	264	13.987	13.992	(1.000)	1280751	40.0000	
\$ 3 2-Fluorophenol	112	3.215	3.201	(0.739)	622443	57.4951	1980
\$ 5 Phenol-d5	99	3.977	3.973	(0.914)	722990	53.5497	1840
\$ 20 Nitrobenzene-d5	82	4.877	4.877	(0.869)	329807	26.2389	902
\$ 39 2-Fluorobiphenyl	172	6.734	6.735	(0.902)	818184	26.1738	900
\$ 60 2,4,6-Tribromophenol	329	8.306	8.306	(1.113)	182444	51.9701	1790
\$ 81 p-Terphenyl-d14	244	10.773	10.773	(0.902)	919528	33.3332	1150

ION RATIO REPORT

SV REPORT

Data file: s8c0320.d

Report Date: 03/04/2010 07:09

Lab. ID: 247791003

SampleType: SAMPLE

Injection Date: 03-MAR-2010 19:39

Operator: nag1

Instrument: MSD8.i

Sample Info: |247791003|957838|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01

Comment:

Method used: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4	Aniline		CAS#: 62-53-3			
66	34789	3.98	4.04	80-120	100	(T)
93	265	4.05	4.04	228-288	1	(Q)

17	N-Nitrosodipropylamine		CAS#: 621-64-7			
70	43692	4.88	4.73	80-120	100	(T)
42	19601	4.88	4.73	20- 80	45	(T)

30	Naphthalene		CAS#: 91-20-3			
128	690	5.63	5.63	80-120	100	()
129	100	5.63	5.63	0- 41	15	()
127	154	5.68	5.63	0- 43	22	()

34	2-Methylnaphthalene		CAS#: 91-57-6			
142	270	6.35	6.35	80-120	100	()
141	339	6.35	6.35	56-116	125	(Q)

44	2,6-Dinitrotoluene		CAS#: 606-20-2			
165	135689	7.46	7.23	80-120	100	(T)
63	1849	7.46	7.23	21- 81	1	(QT)

50	2,4-Dinitrotoluene		CAS#: 121-14-2			
165	135689	7.46	7.66	80-120	100	(T)
89	1572	7.46	7.66	35- 95	1	(QT)
63	1849	7.46	7.66	16- 76	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	566	8.30	8.10	80-120	100	(T)
105	1098	8.30	8.10	7- 67	194	(QT)
51	946	8.30	8.10	10- 70	167	(QT)

92 Chrysene				CAS#: 218-01-9		
228	159	11.97	11.97	80-120	100	()
229	913	11.94	11.97	0- 49	572	(Q)
226	214	11.94	11.97	0- 59	134	(Q)

94 Di-n-octylphthalate				CAS#: 117-84-0		
149	482	12.82	12.82	80-120	100	()
43	303	12.78	12.82	0- 38	63	(Q)

Q qualifier indicates ion failed ratio requirement						

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0320.d
 Lab Smp Id: 247791003 Client Smp ID: RE15-10-8319
 Inj Date : 03-MAR-2010 19:39
 Operator : nagl Inst ID: MSD8.i
 Smp Info : |247791003|957838|1|SVMF|1|LANL
 Misc Info : |MSD8270 S|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
 Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.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	30.07000	weight of sample
M	3.28180	% moisture

Cpnd Variable Local Compound Variable

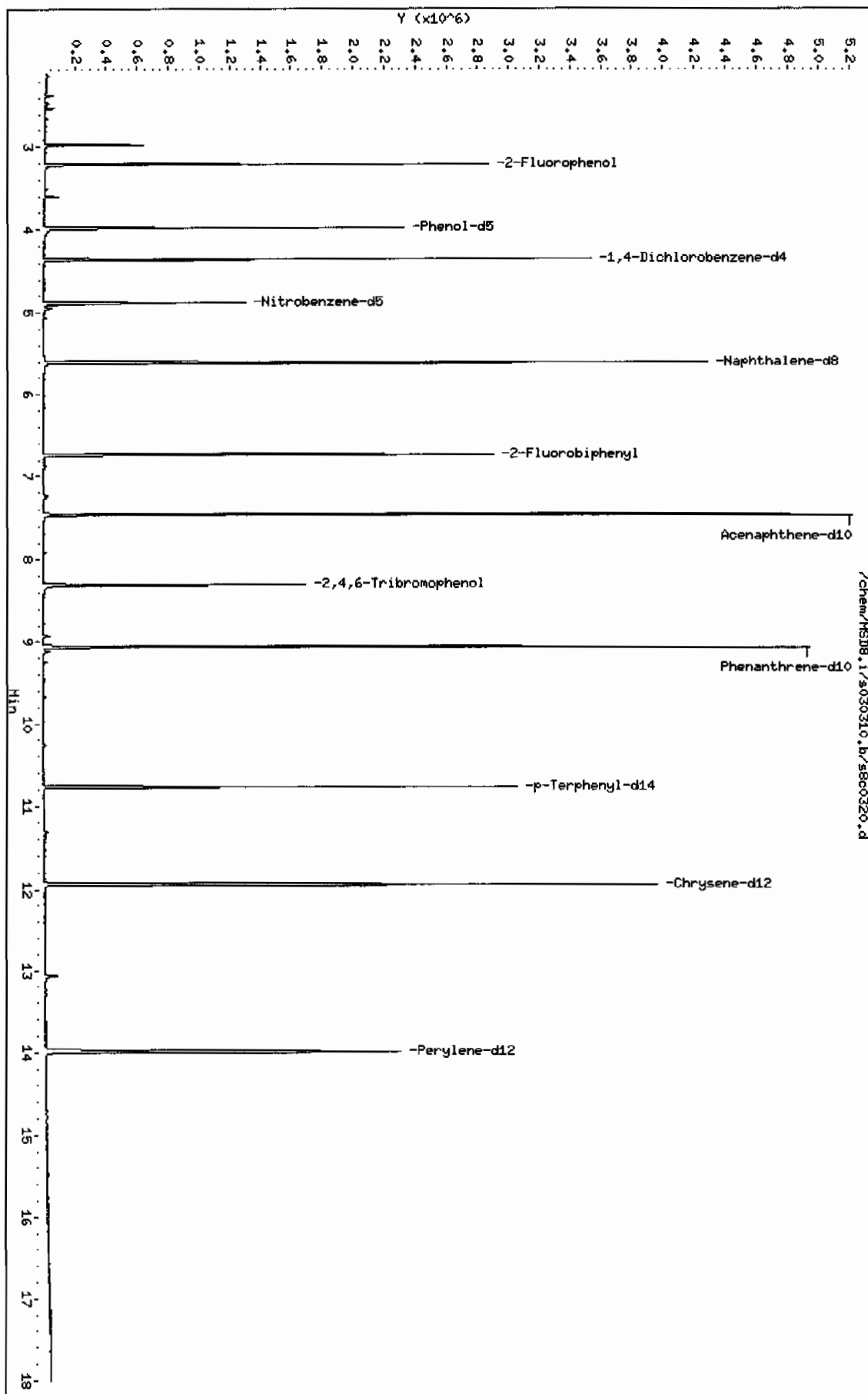
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.353	2527239	40.000

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

Unknown Aldol Condensate				CAS #:			
2.972	448546	7.09938475	244	0		0	10

Data File: /chem/MSDB.i/s030310.b/s800320.d
 Date: 03-MAR-2010 19:39
 Client ID: RE15-10-8319
 Sample Info: 124791003195783811SYMF11LNL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-SMS

Instrument: MSDB.i
 Operator: nag1
 Column diameter: 0.20



Date : 03-MAR-2010 19:39

Client ID: RE15-10-8319

Instrument: MSD8.i

Sample Info: 1247791003196783811SVHF111LANL

Volume Injected (uL): 0.6

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

Unknown Aldol Condensate

2-Pentanone, 4-hydroxy-4-methyl-

CAS Number

Library

Entry

Quality

Formula

Weight

123-42-2

NIST05.L

7961

53

C6H12O2

116

2-Pentanone, 4-hydroxy-4-methyl-

123-42-2

NIST05.L

7962

50

C6H12O2

116

2-Pentanone, 4-hydroxy-4-methyl-

123-42-2

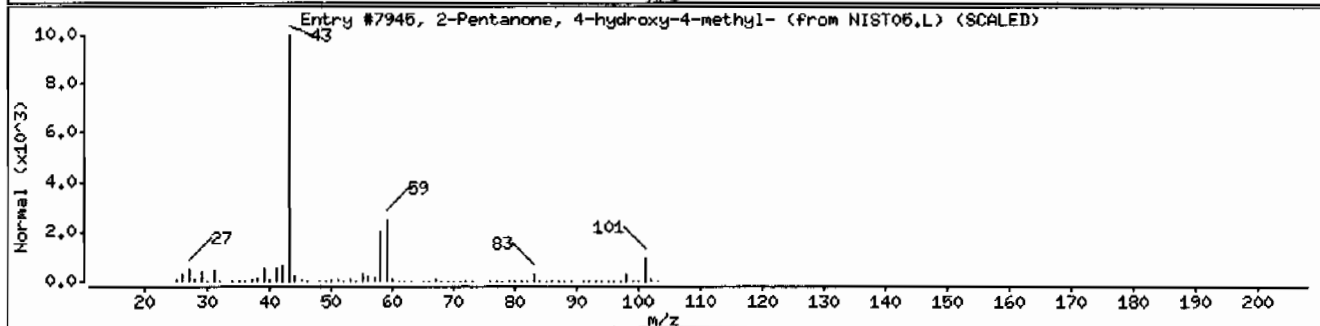
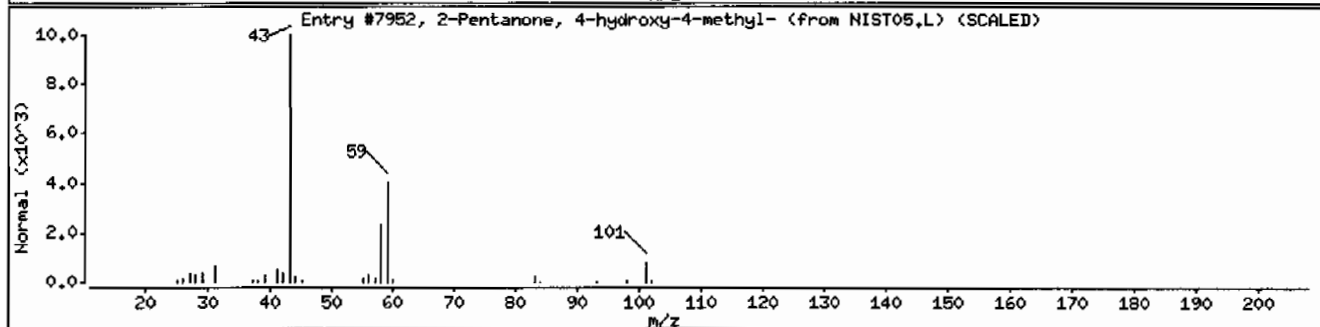
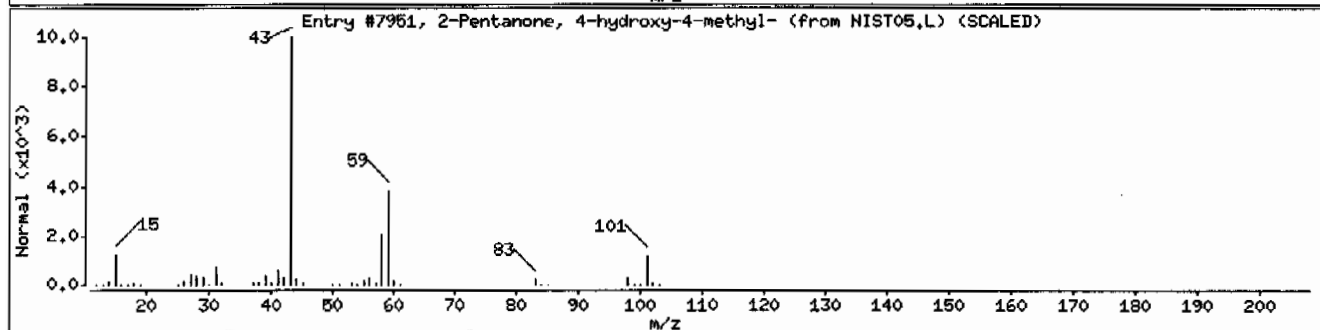
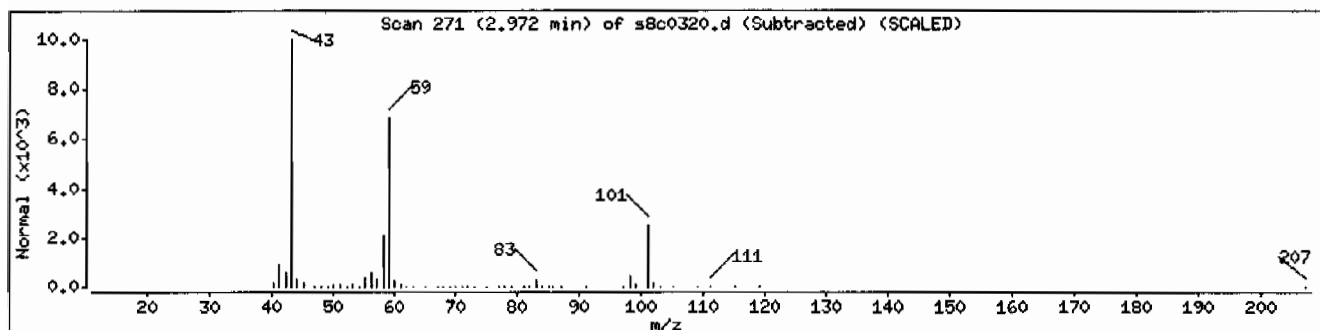
NIST05.L

7945

42

C6H12O2

116



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

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	347	ug/kg	69.4	347
108-95-2	Phenol	U	347	ug/kg	69.4	347
95-57-8	2-Chlorophenol	U	347	ug/kg	69.4	347
106-46-7	1,4-Dichlorobenzene	U	347	ug/kg	69.4	347
621-64-7	N-Nitrosodipropylamine	U	347	ug/kg	69.4	347
59-50-7	4-Chloro-3-methylphenol	U	347	ug/kg	69.4	347
83-32-9	Acenaphthene	U	34.7	ug/kg	11.4	34.7
121-14-2	2,4-Dinitrotoluene	U	347	ug/kg	34.7	347
100-02-7	4-Nitrophenol	U	347	ug/kg	114	347
87-86-5	Pentachlorophenol	U	347	ug/kg	86.7	347
129-00-0	Pyrene	U	34.7	ug/kg	10.4	34.7
110-86-1	Pyridine	U	347	ug/kg	69.4	347
62-53-3	Aniline	U	347	ug/kg	104	347
111-44-4	bis(2-Chloroethyl) ether	U	347	ug/kg	69.4	347
541-73-1	1,3-Dichlorobenzene	U	347	ug/kg	69.4	347
100-51-6	Benzyl alcohol	U	347	ug/kg	104	347
95-50-1	1,2-Dichlorobenzene	U	347	ug/kg	69.4	347
108-60-1	bis(2-Chloroisopropyl)ether	U	347	ug/kg	69.4	347
95-48-7	o-Cresol	U	347	ug/kg	69.4	347
65794-96-9	m,p-Cresols	U	347	ug/kg	104	347
67-72-1	Hexachloroethane	U	347	ug/kg	69.4	347
98-95-3	Nitrobenzene	U	347	ug/kg	69.4	347
78-59-1	Isophorone	U	347	ug/kg	69.4	347
88-75-5	2-Nitrophenol	U	347	ug/kg	69.4	347
105-67-9	2,4-Dimethylphenol	U	347	ug/kg	121	347
111-91-1	bis(2-Chloroethoxy)methane	U	347	ug/kg	69.4	347
120-83-2	2,4-Dichlorophenol	U	347	ug/kg	69.4	347
65-85-0	Benzoic acid	U	694	ug/kg	173	694
91-20-3	Naphthalene	U	34.7	ug/kg	10.4	34.7
106-47-8	4-Chloroaniline	U	347	ug/kg	69.4	347
87-68-3	Hexachlorobutadiene	U	347	ug/kg	69.4	347
91-57-6	2-Methylnaphthalene	U	34.7	ug/kg	6.94	34.7
77-47-4	Hexachlorocyclopentadiene	U	347	ug/kg	69.4	347
88-06-2	2,4,6-Trichlorophenol	U	347	ug/kg	69.4	347
95-95-4	2,4,5-Trichlorophenol	U	347	ug/kg	69.4	347
91-58-7	2-Chloronaphthalene	U	34.7	ug/kg	11.4	34.7
88-74-4	2-Nitroaniline	U	347	ug/kg	69.4	347
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	347	ug/kg	69.4	347

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

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30.03 g
Column: J&W DB-5MS

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

Client ID: RE15-10-8326
Batch ID: 957838
Run Date: 03/03/2010 20:38
Prep Date: 02/25/2010 21:57
Data File: s8c0322.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	347	ug/kg	69.4	347
606-20-2	2,6-Dinitrotoluene	U	347	ug/kg	34.7	347
208-96-8	Acenaphthylene	U	34.7	ug/kg	10.4	34.7
51-28-5	2,4-Dinitrophenol	U	694	ug/kg	132	694
132-64-9	Dibenzofuran	U	347	ug/kg	69.4	347
84-66-2	Diethylphthalate	U	347	ug/kg	69.4	347
86-73-7	Fluorene	U	34.7	ug/kg	10.4	34.7
7005-72-3	4-Chlorophenylphenylether	U	347	ug/kg	69.4	347
534-52-1	2-Methyl-4,6-dinitrophenol	U	347	ug/kg	69.4	347
100-01-6	4-Nitroaniline	U	347	ug/kg	104	347
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	347	ug/kg	69.4	347
122-66-7	Azobenzene	U	347	ug/kg	69.4	347
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	347	ug/kg	69.4	347
118-74-1	Hexachlorobenzene	U	347	ug/kg	69.4	347
85-01-8	Phenanthrene	U	34.7	ug/kg	10.4	34.7
120-12-7	Anthracene	U	34.7	ug/kg	6.94	34.7
84-74-2	Di-n-butylphthalate	U	347	ug/kg	69.4	347
206-44-0	Fluoranthene	U	34.7	ug/kg	10.4	34.7
85-68-7	Butylbenzylphthalate	U	347	ug/kg	69.4	347
56-55-3	Benzo(a)anthracene	U	34.7	ug/kg	10.4	34.7
91-94-1	3,3'-Dichlorobenzidine	U	347	ug/kg	104	347
218-01-9	Chrysene	U	34.7	ug/kg	10.4	34.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	347	ug/kg	69.4	347
117-84-0	Di-n-octylphthalate	U	347	ug/kg	69.4	347
205-99-2	Benzo(b)fluoranthene	U	34.7	ug/kg	10.4	34.7
207-08-9	Benzo(k)fluoranthene	U	34.7	ug/kg	10.4	34.7
50-32-8	Benzo(a)pyrene	U	34.7	ug/kg	10.4	34.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.7	ug/kg	10.4	34.7
53-70-3	Dibenzo(a,h)anthracene	U	34.7	ug/kg	10.4	34.7
191-24-2	Benzo(ghi)perylene	U	34.7	ug/kg	10.4	34.7
120-82-1	1,2,4-Trichlorobenzene	U	347	ug/kg	69.4	347

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	2.97	282	ug/kg		JA

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0322.d
Lab Smp Id: 247791005 Client Smp ID: RE15-10-8326
Inj Date : 03-MAR-2010 20:38
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791005|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: hpclp1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	4.01310	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN	FINAL
	=====	==	=====	=====	(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.353	4.354 (1.000)	467655	40.0000	
* 29 Naphthalene-d8	136	5.611	5.611 (1.000)	1824224	40.0000	
* 46 Acenaphthene-d10	164	7.463	7.463 (1.000)	1076799	40.0000	
* 67 Phenanthrene-d10	188	9.058	9.058 (1.000)	1965247	40.0000	
* 91 Chrysene-d12	240	11.939	11.944 (1.000)	1935945	40.0000	
* 98 Perylene-d12	264	13.992	13.992 (1.000)	1671274	40.0000	
\$ 3 2-Fluorophenol	112	3.215	3.201 (0.739)	751485	68.0650	2360
\$ 5 Phenol-d5	99	3.982	3.973 (0.915)	886517	64.3850	2230
\$ 20 Nitrobenzene-d5	82	4.877	4.877 (0.869)	402106	31.0081	1080
\$ 39 2-Fluorobiphenyl	172	6.734	6.735 (0.902)	981230	30.9581	1070
\$ 60 2,4,6-Tribromophenol	329	8.306	8.306 (1.113)	218369	61.3481	2130
\$ 81 p-Terphenyl-d14	244	10.773	10.773 (0.902)	1229880	35.2865	1220

ION RATIO REPORT

SV REPORT

Data file: s8c0322.d

Report Date: 03/04/2010 07:09

Lab. ID: 247791005

SampleType: SAMPLE

Injection Date: 03-MAR-2010 20:38

Operator: nagl

Instrument: MSD8.i

Sample Info: |247791005|957838|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN100227-01

Comment:

Method used: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1982

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	42000	3.98	4.04	80-120	100	(T)
93	146	4.05	4.04	228-288	0	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	52935	4.88	4.73	80-120	100	(T)
42	24015	4.88	4.73	20- 80	45	(T)

30 Naphthalene		CAS#: 91-20-3				
128	398	5.62	5.63	80-120	100	()
129	144	5.62	5.63	0- 41	36	()
127	0	0.00	5.63	0- 43	0	(T)

34 2-Methylnaphthalene		CAS#: 91-57-6				
142	223	6.35	6.35	80-120	100	()
141	169	6.45	6.35	56-116	76	(T)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	138682	7.46	7.23	80-120	100	(T)
63	1732	7.46	7.23	21- 81	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	138682	7.46	7.66	80-120	100	(T)
89	1688	7.46	7.66	35- 95	1	(QT)
63	1732	7.46	7.66	16- 76	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55	2-Methyl-4,6-dinitrophenol			CAS#: 534-52-1		
198	587	8.30	8.10	80-120	100	(T)
105	1356	8.30	8.10	7- 67	231	(QT)
51	1245	8.30	8.10	10- 70	212	(QT)

92	Chrysene			CAS#: 218-01-9		
228	4694	11.94	11.97	80-120	100	()
229	1253	11.94	11.97	0- 49	27	()
226	389	11.94	11.97	0- 59	8	()

94	Di-n-octylphthalate			CAS#: 117-84-0		
149	1675	12.87	12.82	80-120	100	()
43	287	12.87	12.82	0- 38	17	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0322.d
Lab Smp Id: 247791005 Client Smp ID: RE15-10-8326
Inj Date : 03-MAR-2010 20:38
Operator : nag1 Inst ID: MSD8.i
Smp Info : |247791005|957838|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 03-Mar-2010 15:34 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.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	30.03000	weight of sample
M	4.01310	% moisture

Cpnd Variable Local Compound Variable

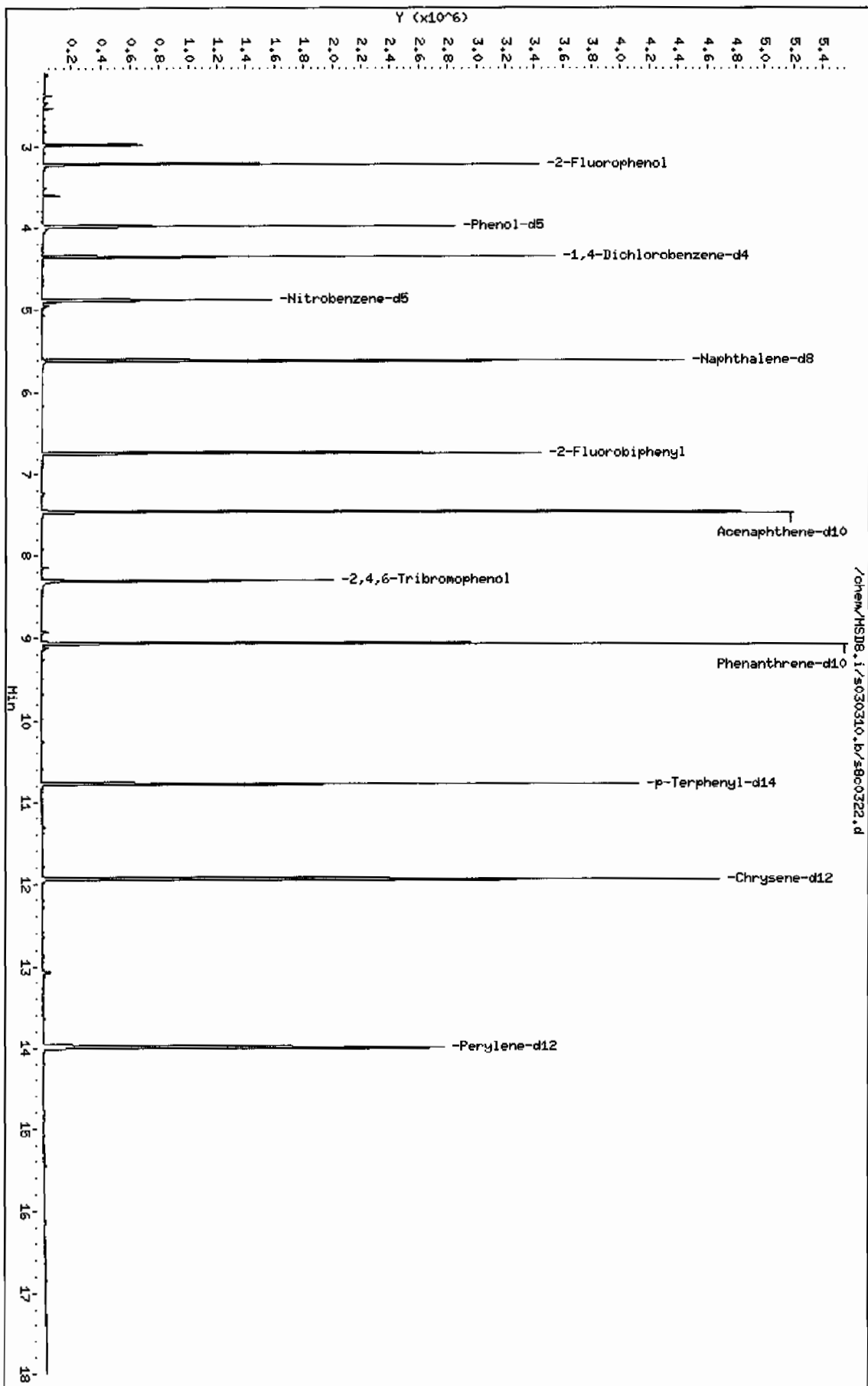
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.353	2575657	40.000

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

Unknown Aldol Condensate				CAS #:			
2.972	522520	8.11474539	282	0		0	10

Data File: /chem/MSDB.i/s030310.b/s800322.d
 Date: 03-MAR-2010 20:38
 Client ID: RE16-10-8326
 Sample Info: 124791006195783811.SWHE11L1.LML
 Volume Injected (uL): 0.5
 Column phase: 3M DB-5MS

Instrument: MSDB.i
 Operator: nag1
 Column diameter: 0.20



Date : 03-MAR-2010 20:38

Client ID: RE15-10-8326

Instrument: MSDB.i

Sample Info: 12477910061967838111SVHF111LANL

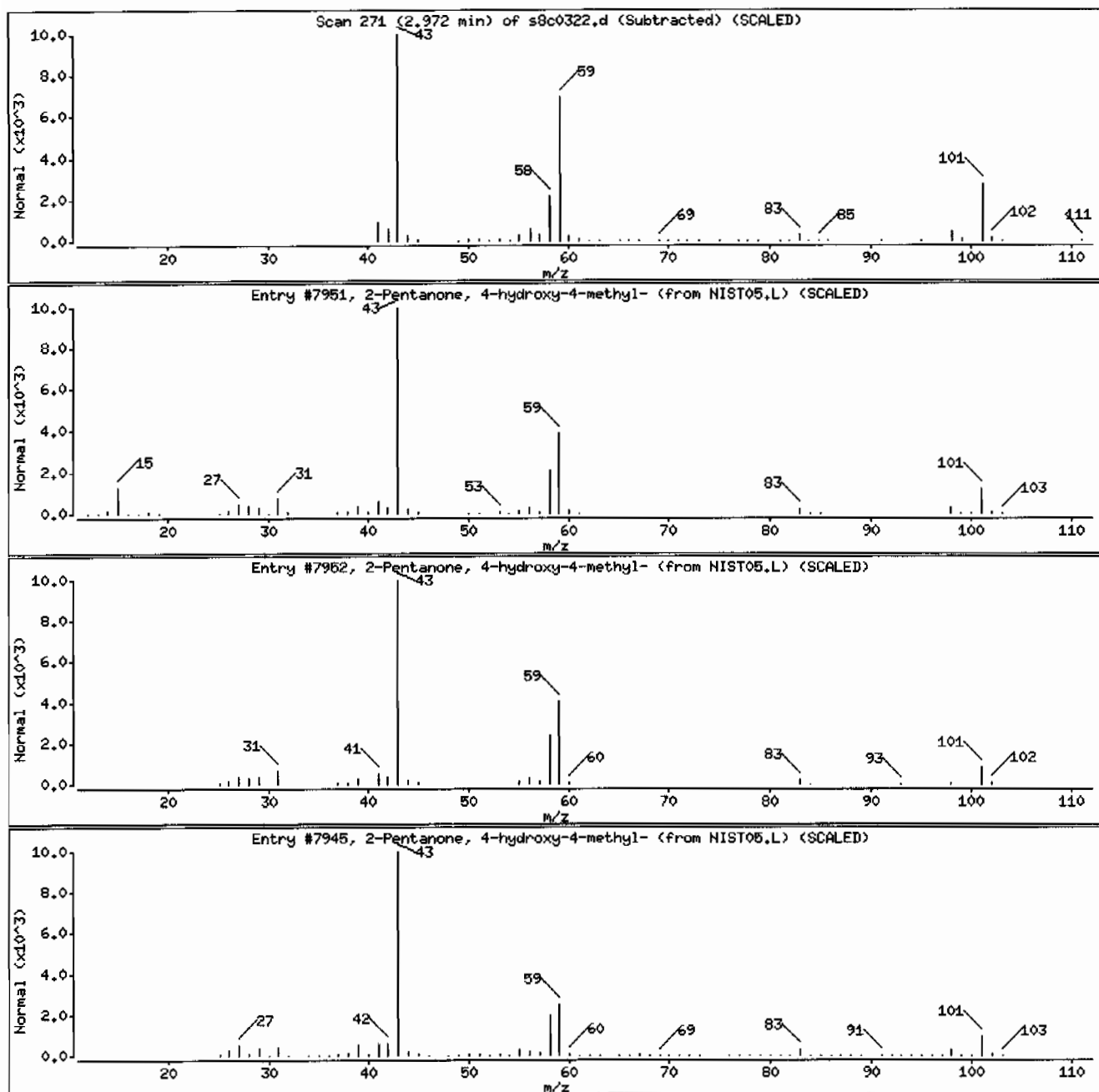
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	53	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	40	C6H12O2	116



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(i)fluoranthene		10	20	40	50	80	100	120
Dibenzo(a,h)pyrene		10	20	40	50	80	100	120
Dibenzo(a,h)acridine		10	20	40	50	80	100	120
Dibenzo(a,i)acridine		10	20	40	50	80	100	120
Dibenzo(a,i)pyrene		10	20	40	50	80	100	120
Dibenzo(a,l)pyrene		10	20	40	50	80	100	120
7H-Dibenzo(c,g)carbazole		10	20	40	50	80	10	120

All values are mg/L without the prep factor.

Indicates the calibration verification concentration level used

* Usual calibration levels using SCAN methodology

** This analyte included in this level at special client request.

(0210/Full list)

Report Date: 02-Mar-2010 07:30

Calibration History

Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
Start Cal Date: 20-FEB-2010 12:55
End Cal Date : 22-FEB-2010 01:19

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
20-FEB-2010 12:55	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2003.d
Cal Level: 2 , Cal Amount: 10.00000		
21-FEB-2010 22:13	NEV	/chem/MSD8.i/s022010.b/s8b2040.d
21-FEB-2010 16:44	HEX	/chem/MSD8.i/s022010.b/s8b2029.d
21-FEB-2010 13:02	PEST	/chem/MSD8.i/s022010.b/s8b2022.d
21-FEB-2010 09:21	AP12	/chem/MSD8.i/s022010.b/s8b2015.d
20-FEB-2010 13:30	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2004.d
Cal Level: 3 , Cal Amount: 20.00000		
21-FEB-2010 22:45	NEV	/chem/MSD8.i/s022010.b/s8b2041.d
21-FEB-2010 17:16	HEX	/chem/MSD8.i/s022010.b/s8b2030.d
21-FEB-2010 13:33	PEST	/chem/MSD8.i/s022010.b/s8b2023.d
21-FEB-2010 09:52	AP12	/chem/MSD8.i/s022010.b/s8b2016.d
20-FEB-2010 14:05	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2005.d
Cal Level: 4 , Cal Amount: 40.00000		
21-FEB-2010 23:15	NEV	/chem/MSD8.i/s022010.b/s8b2042.d
21-FEB-2010 17:48	HEX	/chem/MSD8.i/s022010.b/s8b2031.d
21-FEB-2010 14:05	PEST	/chem/MSD8.i/s022010.b/s8b2024.d
21-FEB-2010 10:23	AP12	/chem/MSD8.i/s022010.b/s8b2017.d
20-FEB-2010 14:40	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2006.d
Cal Level: 5 , Cal Amount: 50.00000		
21-FEB-2010 23:46	NEV	/chem/MSD8.i/s022010.b/s8b2043.d
21-FEB-2010 18:19	HEX	/chem/MSD8.i/s022010.b/s8b2032.d
21-FEB-2010 14:37	PEST	/chem/MSD8.i/s022010.b/s8b2025.d
21-FEB-2010 10:54	AP12	/chem/MSD8.i/s022010.b/s8b2018.d
20-FEB-2010 15:14	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2007.d
Cal Level: 6 , Cal Amount: 80.00000		
22-FEB-2010 00:17	NEV	/chem/MSD8.i/s022010.b/s8b2044.d
21-FEB-2010 18:51	HEX	/chem/MSD8.i/s022010.b/s8b2033.d
21-FEB-2010 15:09	PEST	/chem/MSD8.i/s022010.b/s8b2026.d
21-FEB-2010 11:26	AP12	/chem/MSD8.i/s022010.b/s8b2019.d
20-FEB-2010 15:50	MEGAICARE	/chem/MSD8.i/s022010.b/s8b2008.d
Cal Level: 7 , Cal Amount: 100.00000		

22-FEB-2010 00:48	NEV	/chem/MSD8.i/s022010.b/s8b2045.d
21-FEB-2010 19:22	HEX	/chem/MSD8.i/s022010.b/s8b2034.d
21-FEB-2010 15:40	PEST	/chem/MSD8.i/s022010.b/s8b2027.d
21-FEB-2010 11:59	AP12	/chem/MSD8.i/s022010.b/s8b2020.d
20-FEB-2010 16:25	MEGAIICARE	/chem/MSD8.i/s022010.b/s8b2009.d

Cal Level: 8 , Cal Amount: 120.00000

22-FEB-2010 01:19	NEV	/chem/MSD8.i/s022010.b/s8b2046.d
21-FEB-2010 16:12	PEST	/chem/MSD8.i/s022010.b/s8b2028.d
21-FEB-2010 12:30	AP12	/chem/MSD8.i/s022010.b/s8b2021.d
20-FEB-2010 16:59	MEGAIICARE	/chem/MSD8.i/s022010.b/s8b2010.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0

01-MAR-2010 12:28	MEGAIICARE	/chem/MSD8.i/s030110.b/s8c0102.d
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Ccal Level: 4 , Ccal Amount: 40.0

01-MAR-2010 13:03	AP12	/chem/MSD8.i/s030110.b/s8c0103.d
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GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

Calibration File Names:

Level 1: /chem/MSD8.i/s022010.b/s8b2003.d
 Level 2: /chem/MSD8.i/s022010.b/s8b2040.d
 Level 3: /chem/MSD8.i/s022010.b/s8b2041.d
 Level 4: /chem/MSD8.i/s022010.b/s8b2042.d
 Level 5: /chem/MSD8.i/s022010.b/s8b2043.d
 Level 6: /chem/MSD8.i/s022010.b/s8b2044.d
 Level 7: /chem/MSD8.i/s022010.b/s8b2045.d
 Level 8: /chem/MSD8.i/s022010.b/s8b2046.d

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	++++ 0.57992	0.61951 0.58593	0.63665	0.62571	0.60931	0.60758	AVRG		0.60923		3.37337
2 Pyridine	++++ 0.87607	0.89446 0.87582	0.93458	0.90790	0.87786	0.88941	AVRG				2.40541
4 Aniline	++++ 0.54402	0.55291 0.56183	0.56486	0.55215	0.55460	0.55759	AVRG		0.89373		
209 Benzaldehyde	++++ 0.82905	0.88461 0.77335	0.93065	0.82979	0.84335	0.81229	AVRG		0.55542		1.23562
6 Phenol	++++ 1.59022	1.21439 1.21801	1.26753	1.22620	1.19992	1.19696	AVRG		0.84330		6.04219
							AVRG		1.21617		2.13674

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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	++++ 0.79428	0.86875 0.80161	0.87510	0.84552	0.82182	0.81301	AVRG		0.83144		3.86597
8 2-Chlorophenol	++++ 1.03335	1.03978 1.06466	1.08408	1.0725	1.04534	1.05301	AVRG		1.05605		1.73871
203 n-Decane	++++ 0.94466	1.27851 0.91988	1.24822	1.15740	1.07516	1.00264	AVRG		1.08949		13.14312
9 1,3-Dichlorobenzene	++++ 1.22581	1.28111 1.2612	1.28796	1.25869	1.21836	1.23373	AVRG		1.25240		2.16688
11 1,4-Dichlorobenzene	++++ 1.27786	1.29450 1.32204	1.32850	1.27510	1.26337	1.28372	AVRG		1.29215		1.89951
12 Benzyl alcohol	++++ 0.65441	0.63823 0.66840	0.66891	0.66923	0.65483	0.66997	AVRG		0.66057		1.81681
13 1,2-Dichlorobenzene	++++ 1.16994	1.23246 1.20670	1.24228	1.20302	1.17789	1.18128	AVRG		1.20194		2.30652
14 bis(2-Chloroisopropyl) ether	++++ 1.49862	1.75891 1.49146	1.77869	1.68785	1.62858	1.56724	AVRG		1.63019		7.19167
15 o-Cresol	++++ 0.83135	0.83685 0.85253	0.86246	0.86097	0.83301	0.83522	AVRG		0.84463		1.60879

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients ml	m2	%RSD or R ²
	Level 7	Level 8									
16 Acetophenone	++++ 1.20314	1.22382 1.15394	1.29124	1.18127	1.20711	1.16108	AVRG		1.20309		3.85004
17 N-Nitrosodipropylamine	++++ 0.76559	0.77291 0.77632	0.78775	0.78533	0.78242	0.77484	AVRG		0.77788		0.99721
18 m,p-Cresols	++++ 1.06572	1.04493 1.08557	1.08669	1.06836	1.05918	1.07181	AVRG		1.06890		1.36774
19 Hexachloroethane	++++ 0.48126	0.48582 0.49008	0.49574	0.48975	0.48187	0.48407	AVRG		0.48694		1.06899
21 Nitrobenzene	++++ 0.29496	0.29364 0.29467	0.29812	0.29008	0.28855	0.29311	AVRG		0.29331		1.08619
22 Isophorone	++++ 0.54707	0.54198 0.54526	0.54074	0.53290	0.53134	0.54066	AVRG		0.53999		1.09041
23 2-Nitrophenol	++++ 0.13936	0.13002 0.13958	0.13039	0.13172	0.13404	0.13721	AVRG		0.13462		3.05487
24 2,4-Dimethylphenol	++++ 0.24421	0.23868 0.24544	0.23567	0.23285	0.23796	0.24044	AVRG		0.23932		1.86969
25 bis(2-Chloroethoxy)methane	++++ 0.30400	0.31326 0.30594	0.30893	0.29561	0.29347	0.29853	AVRG		0.30282		2.39356

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INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270QA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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	++++ 0.22351	0.20745 0.22510	0.21497 0.22510	0.21364 0.22510	0.21276 0.22510	0.21836 0.22510	AVRG		0.21654		2.87770
27 Benzoic acid	++++ 779305	++++ 996763	83893	215984	333227	600127	LINR	0.37420	0.17210		0.99460
28 1,2,4-Trichlorobenzene	++++ 0.29534	0.30108 0.29975	0.29237	0.28234	0.27990	0.28748	AVRG		0.29118		2.83696
30 Naphthalene	59622 4829589	408591 5952102	879341	1743176	2453204	3915424	LINR	0.05011	0.91806		0.99772
204 alpha-Terpineol	++++ 0.21504	0.23619 0.21341	0.23584	0.22166	0.22004	0.21591	AVRG		0.22259		4.31595
31 4-Chloroaniline	++++ 0.28493	0.27947 0.28604	0.29236	0.29508	0.28109	0.28200	AVRG		0.28585		2.05307
189 Caprolactam	++++ 0.07008	0.05934 0.06871	0.06750	0.06559	0.06739	0.06727	AVRG		0.06655		5.20909
32 Hexachlorobutadiene	++++ 0.18360	0.18359 0.18593	0.18107	0.17811	0.17478	0.18060	AVRG		0.18110		2.07689
33 4-Chloro-3-methylphenol	++++ 0.24180	0.22447 0.24455	0.23171	0.23125	0.22996	0.23628	AVRG		0.23429		3.00125

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 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
34 2-Methylnaphthalene	38110 3185761	275963 3911554	600338	1198438	1651350	2574886	LINR	0.03268	0.60114		0.99853
35 1-Methylnaphthalene	38576 3139153	271665 3823750	594641	1175844	1616234	2506814	LINR	0.03094	0.58835		0.99835
36 Hexachlorocyclopentadiene	++++ 0.25115	0.21877 0.26766	0.25138	0.24756	0.25311	0.24824	AVRG	0.24827			5.90114
208 1,1'-Biphenyl	++++ 1.25475	1.22247 1.22731	1.29127	1.17987	1.19898	1.18070	AVRG	1.22219			3.32526
205 2,3-Dichloroaniline	++++ 0.55128	0.51270 0.57535	0.51480	0.49871	0.51091	0.53248	AVRG	0.52803			5.10658
37 2,4,6-Trichlorophenol	++++ 0.33385	0.27914 0.34903	0.29104	0.28876	0.29978	0.31571	AVRG	0.30819			8.34550
38 2,4,5-Trichlorophenol	++++ 0.34169	0.29440 0.35990	0.32076	0.31947	0.31565	0.33788	AVRG	0.32711			6.48907
40 2-Chloronaphthalene	36449 3039631	268251 3702903	582975	1155795	1582228	2469755	LINR	0.03655	1.02665		0.99760
42 o-Nitroaniline	++++ 0.20197	0.25572 0.28884	0.26998	0.26946	0.27364	0.27783	AVRG	0.27392			3.85593

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 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
41 m-Nitroaniline	++++ 0.20505	0.18519 0.21482	0.21448 0.21453	0.21492 1.10613	0.21737 1.09173	0.20957 1.11237	AVRG		0.20877 1.12088		5.36018 1.68894
43 Dimethylphthalate	++++ 1.12375	1.12548 1.14118	1.14453 1.14453	1.10613 1.10613	1.09173 1.09173	1.11237 1.11237	AVRG				
44 2,6-Dinitrotoluene	++++ 0.24733	0.25896 0.25426	0.26346 0.26346	0.25342 0.25342	0.24949 0.24949	0.24696 0.24696	AVRG		0.25341		2.42391
45 Acenaphthylene	2.18976 1.60612	1.59988 1.68189	1.58469 1.58469	1.52835 1.52835	1.53064 1.53064	1.56415 1.56415	AVRG		1.66068		13.20366
47 Acenaphthene	1.41358 1.02939	1.00028 1.07707	0.99778 0.99778	0.98187 0.98187	0.99926 0.99926	1.00432 1.00432	AVRG		1.06294		13.61052
48 2,4-Dinitrophenol	++++ 320377	++++ 412311	38021 1.40644	93310 1.40820	146622 1.33815	245403 1.36798	AVRG LINR		0.35935 0.12672		0.99075
49 Dibenzofuran	++++ 1.41726	1.49580 0.31049	1.40820 0.32653	1.32867 0.32098	1.33815 0.31786	1.36798 0.31902	AVRG		1.39464		4.06888
50 2,4-Dinitrotoluene	++++ 0.33142	0.34814 1.16273	0.32653 1.19006	0.32098 1.14803	0.31786 1.15696	0.31902 1.15712	AVRG		0.32492		3.75316
51 Diethylphthalate	++++ 1.18165	1.21522 1.21522	1.19006 1.19006	1.14803 1.14803	1.15696 1.15696	1.15712 1.17311	AVRG		1.17311		2.02529

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R ²
	100 Level 7	120 Level 8									
52 4-Nitrophenol	++++ 0.14797	0.10359 0.15374	0.13187	0.13545	0.14163	0.14151	AVRG		0.13654		11.90490
53 Fluorene	1.69412 1.29401	1.18564 1.36155	1.18324	1.16123	1.18593	1.26226	AVRG		1.29100		13.69804
54 4-Chlorophenylphenylether	++++ 0.64896	0.59987 0.68125	0.60491	0.58500	0.59564	0.63651	AVRG		0.62173		5.60755
220 Hydroquinone	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00
55 2-Methyl-4,6-dinitrophenol	++++ 489102	26409 612903	78471	169233	248477	398816	LINR	0.16815	0.09594		0.99736
56 p-Nitroaniline	++++ 0.19726	0.13756 0.20537	0.16571	0.18963	0.20209	0.19373	AVRG		0.18448		13.23346
133 Diphenylamine	++++ 0.52558	0.48702 0.53844	0.48634	0.48646	0.49672	0.51765	AVRG		0.50546		4.26163
58 1,2-Diphenylhydrazine	++++ 0.59206	0.58322 0.60379	0.59673	0.58464	0.59299	0.60280	AVRG		0.59375		1.35599
59 Tributylphosphate	++++ 0.98996	0.85316 1.00565	0.98848	0.99919	0.98562	0.99554	AVRG		0.97394		5.51372

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 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Coefficients b m1 m2	%RSD or R ²
61 4-Bromophenylphenylether	++++ 0.19629	0.18589 0.20338	0.18897 0.20338	0.18392 0.18392	0.18630 0.18630	0.19322 AVRG	0.19114	3.62682
63 Hexachlorobenzene	++++ 0.20365	0.19642 0.21337	0.19554 0.21337	0.19003 0.19003	0.19110 0.19110	0.20055 AVRG	0.19866	4.06498
207 Atrazine	++++ 0.03441	0.03758 0.03072	0.04062 0.03072	0.03420 0.03420	0.03665 0.03665	0.03302 AVRG	0.03531	9.21662
65 Pentachlorophenol	++++ 0.09718	0.06388 0.10035	0.08247 0.10035	0.08843 0.08843	0.09083 0.09083	0.09630 AVRG	0.08849	14.02887
206 n-Octadecane	++++ 0.37111	0.41912 0.36735	0.42264 0.36735	0.40756 0.40756	0.40012 0.40012	0.39129 AVRG	0.39703	5.48958
68 Phenanthrene	65568 5370346	486199 6608324	1015060 6608324	2006630 6608324	2809008 6608324	4284140 LINR	0.04915	0.99753
69 Anthracene	1.26726 0.95537	0.89621 1.00675	0.90633 1.00675	0.88074 0.99656	0.91241 1.01616	0.94159 AVRG	0.97083	13.00076
72 Di-n-butyl-phthalate	++++ 1.04405	0.94663 1.06383	0.99271 1.06383	0.99656 0.93382	1.01616 0.96161	1.04338 AVRG	1.01476	3.93061
76 Fluoranthene	1.27400 1.01627	0.97604 1.03676	0.96078 1.03676	0.93382 0.93382	0.96161 0.96161	0.98359 AVRG	1.01786	10.65772

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 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
77 Benzidine	++++ 1879386	114948 2370017	240488	575469	576881	1632421	LINR	0.20503	0.37744		0.99275
79 Pyrene	1.59200 1.21785	1.13341 1.22742	1.18323	1.21007	1.19482	1.23234	AVRG		1.24889		11.38418
85 Butylbenzylphthalate	++++ 0.44474	0.37478 0.44980	0.43005	0.45705	0.44937	0.45125	AVRG		0.43672		6.54417
89 Benzo(a)anthracene	1.38070 1.04657	0.96707 1.07617	0.98220	0.96802	0.98013	1.02003	AVRG		1.05261		13.14311
90 3,3'-Dichlorobenzidine	++++ 0.27999	0.19682 0.27551	0.23362	0.24165	0.24177	0.26523	AVRG		0.24780		11.62921
92 Chrysene	56779 4593832	460630 5526812	923811	1690536	2342194	3398164	LINR	0.00950	0.92743		0.99892
93 bis(2-Ethylhexyl)phthalate	0.56666 0.64575	0.53374 0.66128	0.59392	0.62267	0.62324	0.64211	AVRG		0.61117		7.10990
94 Di-n-octylphthalate	++++ 4377445	368592 ++++	834860	1605441	2216889	3330642	AVRG		1.42322		0.99630
95 Benzo(b)fluoranthene	1.19103 1.17803	0.97573 1.29729	1.06659	1.08748	1.13194	1.14428	LINR	0.13246			8.41332
							AVRG		1.13405		

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 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
96 Benzo(k)fluoranthene	1.26573 1.19513	1.00893 1.20870	1.07939	1.10364	1.13551	1.12361	AVRG	1.14008			7.11278
97 Benzo(a)pyrene	0.91365 1.01342	0.85418 1.04734	0.92377	0.94122	0.96804	0.99011	AVRG	0.95647			6.41651
99 Indeno(1,2,3-cd)pyrene	0.79917 0.74498	0.81532 0.78923	0.80542	0.77792	0.75613	0.85605	AVRG	0.79303			4.41296
100 Dibenzo(a,h)anthracene	0.61288 0.63604	0.61866 0.62414	0.60233	0.58469	0.57198	0.65233	AVRG	0.61288			4.28662
101 Benzo(ghi)perylene	0.75516 0.64840	0.69322 0.59909	0.66528	0.62680	0.59234	0.66873	AVRG	0.65613			8.07863
102 1,4-Dioxane	++++ 0.30758	0.35084 0.29584	0.36273	0.32344	0.32306	0.29885	AVRG	0.32319			7.90081
103 Methyl methacrylate	++++ 0.16230	0.17778 0.15788	0.18944	0.16410	0.16994	0.15571	AVRG	0.16817			7.11952
104 Ethyl methacrylate	++++ 0.66413	0.70693 0.62961	0.75062	0.67894	0.68905	0.63812	AVRG	0.67963			6.10805
105 2-Picoline	++++ 1.07041	1.12830 1.03794	1.19020	1.07957	1.10232	1.04185	AVRG	1.09294			4.88732

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 Cal Date : 02-Mar-2010 07:06 nat00999

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
106 N-Nitrosomethylethylamine	++++ 0.44409	0.44779 0.42146	0.46529 0.42146	0.43489 0.42146	0.44140 0.42146	0.42410 0.42146	AVRG	0.43986	0.43986	3.39928	
107 Methyl methanesulfonate	++++ 0.49978	0.52524 0.46508	0.54520 0.46508	0.49099 0.46508	0.48678 0.46508	0.48343 0.46508	AVRG	0.49950	0.49950	5.43906	
108 N-Nitrosodiethylamine	++++ 0.45963	0.46217 0.43541	0.49395 0.43541	0.44813 0.43541	0.46428 0.43541	0.44274 0.43541	AVRG	0.45804	0.45804	4.17302	
109 Ethyl Methanesulfonate	++++ 0.61342	0.62189 0.59197	0.65375 0.59197	0.60074 0.59197	0.60188 0.59197	0.58949 0.59197	AVRG	0.60902	0.60902	3.91897	
110 Pentachloroethane	++++ 0.32132	0.32386 0.30635	0.34717 0.30635	0.31621 0.30635	0.32412 0.30635	0.30740 0.30635	AVRG	0.32092	0.32092	4.26755	
111 N-Nitrosopyrrolidine	++++ 0.49612	0.47922 0.48073	0.51794 0.48073	0.48306 0.48073	0.49257 0.48073	0.48446 0.48073	AVRG	0.49059	0.49059	2.76402	
113 N-Nitrosomorpholine	++++ 0.65152	0.68559 0.61465	0.71997 0.61465	0.66306 0.61465	0.66815 0.61465	0.64403 0.61465	AVRG	0.66385	0.66385	4.99866	
114 o-Toluidine	++++ 1.62224	1.63357 1.57015	1.73837 1.57015	1.58287 1.57015	1.64173 1.57015	1.56389 1.57015	AVRG	1.62183	1.62183	3.70471	
115 N-Nitrosopiperidine	++++ 0.12371	0.12360 0.12009	0.13377 0.12009	0.12334 0.12009	0.12644 0.12009	0.11963 0.12009	AVRG	0.12437	0.12437	3.81963	

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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
116 a,a-Dimethylphenethylamine	++++ 0.78780	0.64589 0.76698	0.73902	0.73378	0.77250	0.75528	AVRG		0.74304		6.29693
117 Triethylphosphorothioate	++++ 0.12726	0.12776 0.13005	0.13608	0.12715	0.12802	0.12765	AVRG		0.12828		0.97777
118 2,6-Dichlorophenol	++++ 0.20928	0.19213 0.20299	0.20693	0.19910	0.19955	0.20082	AVRG		0.20154		2.79228
119 Hexachloropropene	++++ 0.13255	0.11005 0.13069	0.12087	0.12529	0.11800	0.12775	AVRG		0.12360		6.37831
120 p-Phenylenediamine	++++ 0.18199	0.20097 0.18903	0.22012	0.20890	0.19933	0.19552	AVRG		0.19655		8.57847
121 N-Nitrosodi-n-butylamine	++++ 0.19691	0.22009 0.18916	0.23358	0.22059	0.22594	0.19498	AVRG		0.21161		8.26915
122 Saffrole	++++ 0.19409	0.19404 0.18904	0.20590	0.18988	0.19335	0.18710	AVRG		0.19334		3.19019
123 1,2,4,5-Tetrachlorobenzene	++++ 0.48299	0.48179 0.47441	0.50127	0.46416	0.46968	0.45641	AVRG		0.47582		3.07832
124 Isosafrole	++++ 0.32391	0.31959 0.31581	0.34105	0.31534	0.32095	0.31245	AVRG		0.32130		2.96333

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
	100	120									
	Level 7	Level 8									
125 1,4-Naphthoquinone	++++ 0.23046	0.32816 ++++	0.34621 ++++	0.30613 ++++	0.30795 ++++	0.25958 ++++	AVRG		0.29641		14.64421
126 m-Dinitrobenzene	++++ 0.16004	0.15594 ++++	0.16628 ++++	0.16332 ++++	0.16381 ++++	0.16032 ++++	AVRG		0.16162		2.24564
127 Pentachlorobenzene	++++ 0.44346	0.43767 ++++	0.45121 ++++	0.42030 ++++	0.42682 ++++	0.42210 ++++	AVRG		0.43422		2.65150
128 1-Naphthylamine	++++ 0.87214	0.82239 0.85263	0.86814 0.85263	0.82529 0.85263	0.81386 0.85263	0.84167 0.85263	AVRG		0.84230		2.72431
129 2-Naphthylamine	++++ 0.94061	0.87494 0.91680	0.84477 0.91680	0.88369 0.91680	0.86051 0.91680	0.89209 0.91680	AVRG		0.88763		3.68720
130 2,3,4,6-Tetrachlorophenol	++++ 0.29224	0.25022 0.30421	0.26956 0.30421	0.27043 0.30421	0.27312 0.30421	0.28194 0.30421	AVRG		0.27739		6.29089
131 5-Nitro-o-toluidine	++++ 0.25619	0.21312 0.25185	0.24508 0.25185	0.24080 0.25185	0.23259 0.25185	0.24890 0.25185	AVRG		0.24122		6.04443
132 Thionazin	++++ 0.14438	0.13437 0.14610	0.14473 0.14610	0.14728 0.14610	0.14423 0.14610	0.14621 0.14610	AVRG		0.14390		3.02307
134 Su.fotepp	++++ 0.08119	0.07479 0.08666	0.07643 0.08666	0.07811 0.08666	0.08209 0.08666	0.08186 0.08666	AVRG		0.08016		5.01325

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 Cal Date : 02-Mar-2010 07:06 nat00999

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
135 Phorate	++++ 0.29242	0.29874 0.29307	0.30476 0.29307	0.30486 0.29307	0.31798 0.29307	0.30102 0.29307	AVRG		0.30183		2.88237
136 1,3,5-Trinitrobenzene	++++ 0.10131	0.07415 0.09994	0.09175 0.09994	0.09919 0.09994	0.09673 0.09994	0.10189 0.09994	AVRG		0.09499		10.32629
137 Phenacetin	++++ 0.23865	0.18206 0.22853	0.20988 0.22853	0.21406 0.22853	0.21650 0.22853	0.22859 0.22853	AVRG		0.21690		8.45110
138 Diallyate	++++ 0.20258	0.20463 0.19294	0.21020 0.19294	0.19892 0.19294	0.21153 0.19294	0.19343 0.19294	AVRG		0.20203		3.67352
139 Dimethoate	++++ 0.16740	0.14043 0.16949	0.15915 0.16949	0.16697 0.16949	0.17200 0.16949	0.17406 0.16949	AVRG		0.16422		7.00813
140 4-Aminobiphenyl	++++ 0.58751	0.43217 0.58243	0.48080 0.58243	0.49774 0.58243	0.49087 0.58243	0.54937 0.58243	AVRG		0.51727		11.12235
141 Pentachloronitrobenzene	++++ 0.08047	0.07756 0.07668	0.08234 0.07668	0.07796 0.07668	0.08272 0.07668	0.07781 0.07668	AVRG		0.07936		3.09424
142 Pronamide	++++ 0.26196	0.24165 0.25418	0.25727 0.25418	0.24493 0.25418	0.25850 0.25418	0.24762 0.25418	AVRG		0.25230		3.02507
143 Dinoseb	++++ 749359	36739 959224	110780 959224	253153 959224	360839 959224	582168 959224	AVRG	0.21574	0.15018		0.99408

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
	100	120									
	Level 7	Level 8									
144 Disulfoton	++++ 0.22925	0.26489 0.23314	0.24948	0.24076	0.24841	0.23789	AVRG		0.24340		4.93796
145 Methyl parathion	++++ 0.16709	0.12612 0.17055	0.15136	0.15938	0.16288	0.16711	AVRG		0.15779		9.71146
146 4-Nitroquinoline-1-oxide	++++ ++++	0.02056 ++++	0.02288	0.01846	0.01666	0.01679	AVRG		0.01907		13.89367
147 Methapyrilene	++++ 0.28225	0.29694 0.26103	0.32659	0.28898	0.30536	0.28186	AVRG		0.29186		7.08529
148 Isodrin	++++ 0.10901	0.10688 0.10550	0.11119	0.10398	0.11043	0.10326	AVRG		0.10718		2.91403
149 Aramite	++++ 0.03486	0.03161 0.03195	0.03603	0.03415	0.03476	0.03379	AVRG		0.03388		4.71492
150 Kepone	++++ 0.07875	0.07589 0.07575	0.08420	0.07666	0.07796	0.07644	AVRG		0.07795		3.80313
151 p-(Dimethylamino)azobenzene	++++ 0.27510	0.22465 0.26877	0.25205	0.24804	0.27799	0.25995	AVRG		0.25808		7.17705
152 Chlorobenzilate	++++ 0.28069	0.22654 0.27880	0.24955	0.24660	0.29801	0.25875	AVRG		0.26271		9.30544

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
 End Cal Date : 22-FEB-2010 01:19
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
153 3,3'-Dimethylbenzidine	++++ 0.52259	0.37150 0.50844	0.43396 0.50844	0.42299 0.50844	0.44074 0.50844	0.48724 0.50844	AVRG	0.45535	11.72591		
154 Famphur	++++ 0.36897	0.29682 0.38152	0.32000 0.38152	0.33232 0.38152	0.36789 0.38152	0.37506 0.38152	AVRG	0.34894	9.31134		
155 2-Acetylaminofluorene	++++ 1402952	77941 1690573	174270 1690573	466888 1690573	454874 1690573	1169522 1690573	LINR	0.16495	0.26994	0.99689	
157 7,12Dimethylbenz(a)anthracene	++++ 0.56747	0.44428 0.57419	0.50077 0.57419	0.50095 0.57419	0.52555 0.57419	0.52043 0.57419	AVRG	0.51909	8.50027		
158 3-Methylcholanthrene	++++ 0.39268	0.31873 0.38502	0.35613 0.38502	0.36783 0.38502	0.37459 0.38502	0.37965 0.38502	AVRG	0.36780	6.70304		
26 Phthalic anhydride	++++ 723533	35664 893615	121861 893615	249075 893615	381828 893615	594958 893615	LINR	0.12971	0.43281	0.99917	
173 Carbazole	++++ 0.89649	0.61077 0.73688	0.58409 0.73688	0.64323 0.73688	0.66829 0.73688	0.69364 0.73688	AVRG	0.69337	13.94742		
174 Hexachlorophene	++++ 7386241	935628 0.28462	3163522 0.28462	4273678 0.28462	5413416 0.28462	6917749 0.28462	LINR	6.19705	0.07687	0.99449	
179 Dibenzo(a,e)pyrene	++++ 0.27252	0.23457 0.23457	0.26044 0.23457	0.26698 0.23457	0.22397 0.23457	0.28475 0.23457	AVRG	0.26112	9.06299		

GEL Laboratories LLC
INITIAL CALIBRATION DATA

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 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R^2
185 (2,3-Dibromopropyl)phosphate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
184 p-Benzoquinone	265584	134.2	38094	103028	141046	214307	LINR	0.07963	0.20135		0.99786
191 Parathion	++++	0.04141	0.04946	0.05375	0.05525	0.05615	AVRG		0.05291		10.91556
192 Methoxychlor	++++	0.47370	0.56446	0.59238	0.57838	0.60702	AVRG		0.57371		8.15235
210 m-Toluidine	++++	1.23929	1.38356	1.46111	1.48802	1.58621	AVRG		1.48620		9.61503
211 p-Toluidine	++++	1.58280	1.66243	1.6691	1.19548	1.08736	AVRG		1.14055		3.86703
212 Cis Diallate	++++	1.10329	1.09804	0.20767	0.21346	0.19409	AVRG		0.20071		3.79541
213 Trans Diallate	++++	0.19989	0.19195	0.24074	0.23402	0.22756	AVRG		0.23769		3.67352
214 1,4-Dinitrobenzene	++++	0.23833	0.22699	0.14712	0.16942	0.17667	AVRG		0.17136		7.34157

GEL Laboratories LLC

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Start Cal Date : 20-FEB-2010 12:55
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
215 2-Ethoxyethanol	++++ 0.55822	0.58676 0.54494	0.60203	0.59483	0.55565	0.57374	AVRG		0.57374		3.77318
216 Methylenebis(2-Chloroaniline)	++++ 647915	36455 779120	87285	192808	305235	476431	LINR	0.18581	0.13997		0.99822
229 2,2'-Dichlorobenzil	++++ 0.63091	0.53014 0.61172	0.54882	0.57218	0.56813	0.55363	AVRG		0.57365		6.23315
230 4-Chlorothiobanisole	++++ 0.25390	0.23127 0.26275	0.22998	0.24707	0.25459	0.25234	AVRG		0.24741		4.99827
231 4-Chlorothiophenol	++++ 1130595	69510 1540522	156101	409410	538100	905821	LINR	0.15090	0.21447		0.99884
232 bis (p-Chlorophenyl)sulfone	++++ 0.34792	0.32332 0.33496	0.32274	0.32522	0.32041	0.30818	AVRG		0.32611		3.81298
233 bis (p-Chlorophenyl)disulfide	++++ 0.12978	0.11382 0.12394	0.11054	0.12051	0.11929	0.11551	AVRG		0.11906		5.46007
234 Diphenyl disulfide	++++ 0.20205	0.19202 0.19917	0.19186	0.19737	0.19958	0.19288	AVRG		0.19642		2.10807
235 Diphenyl sulfide	++++ 0.81579	0.76604 0.83897	0.75916	0.77559	0.80138	0.79306	AVRG		0.79285		3.59622

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
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 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

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
236 Phenyl sulfone	++++ 0.35788	0.34800 0.36394	0.34646 0.36394	0.34913 0.36394	0.35609 0.36394	0.34394 0.36394	AVRG		0.35221		2.05193
237 Hydroxymethyl phthalimide	++++ 0.09932	0.11562 0.08725	0.12919 0.08725	0.11505 0.08725	0.10331 0.08725	0.08699 0.08725	AVRG		0.10525		14.88762
238 Phthalic acid	++++ 592112	20021 841517	61221 841517	192852 841517	247836 841517	445405 841517	LINR	0.27721	0.11935		0.99378
239 Thiophenol	++++ 1.06962	0.72136 1.11441	0.86680 1.11441	1.01677 1.11441	1.07339 1.11441	1.08115 1.11441	AVRG		0.99193		14.55784
240 bis(Chloromethyl) ether	++++ 0.72897	0.73330 0.73156	0.72927 0.73156	0.75420 0.73156	0.77531 0.73156	0.76257 0.73156	AVRG		0.74502		2.53135
241 Octachlorostyrene	++++ 0.07686	0.06930 0.07691	0.06943 0.07691	0.07008 0.07691	0.07083 0.07691	0.07166 0.07691	AVRG		0.07215		4.62127
IM 22 Trichlorophenols	++++ 0.33777	0.28677 0.35446	0.30590 0.35446	0.30411 0.35446	0.30771 0.35446	0.32680 0.35446	AVRG		0.31765		7.28968
IM 23 Tetrachlorophenols	++++ 0.29224	0.25022 0.30421	0.26956 0.30421	0.27043 0.30421	0.27312 0.30421	0.28194 0.30421	AVRG		0.27739		6.29089
IM 24 Benzo(b,k)fluoranthene	1.22838 1.18658	0.92233 1.25299	1.07299 1.25299	1.09556 1.25299	1.13372 1.25299	1.13395 1.25299	AVRG		1.13706		7.50876

GEL Laboratories LLC

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 Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Cal Date : 02-Mar-2010 07:06 nat00999

Compound	i	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
		Level 7	120	Level 8													
m 225 TIO Sum Semivolatiles	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00	1	0.000e+00
	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00	1	0.000e+00
\$ 3 2-Fluorophenol	++++	0.93098	0.92659	0.96919	0.96650	0.94036	0.93281	AVRG		0.9435			AVRG		0.9435		1.80921
\$ 5 Phenol-d5	++++	1.15725	1.15492	1.20808	1.18961	1.17093	1.17303	AVRG		1.17771			AVRG		1.17771		1.63471
\$ 187 2-Chlorophenol-d4	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
\$ 188 1,2-Dichlorobenzene-d4	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
\$ 20 Nitrobenzene-d5	++++	0.28710	0.28463	0.28610	0.28272	0.27867	0.28386	AVRG		0.28435			AVRG		0.28435		1.06265
\$ 39 2-Fluorobiphenyl	++++	1.20400	1.17351	1.17042	1.12460	1.11619	1.18499	AVRG		1.17740			AVRG		1.17740		4.32813
\$ 60 2,4,6-Tribromophenol	++++	0.13893	0.12711	0.13347	0.12836	0.12619	0.12779	AVRG		0.13223			AVRG		0.13223		5.12665
\$ 81 p-Terphenyl-d14	++++	0.74530	0.67083	0.69230	0.71233	0.71339	0.73658	AVRG		0.72015			AVRG		0.72015		4.65100

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2010 12:55
End Cal Date : 22-FEB-2010 01:19
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
Cal Date : 02-Mar-2010 07:06 nat00999

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

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 20-FEB-2010 18:09
Lab File ID: s8b2012.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.1 Quant Type: ISTD
Method: /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.94435	0.91252	0.91252	0.000	-3.36963	60.00000	Averaged
5 Phenol-d5	1.17771	1.11967	1.11967	0.000	-4.92793	60.00000	Averaged
20 Nitrobenzene-d5	0.28435	0.28445	0.28445	0.000	0.03513	60.00000	Averaged
39 2-Fluorobiphenyl	1.17740	1.10971	1.10971	0.000	-5.74835	60.00000	Averaged
60 2,4,6-Tribromophenol	0.13223	0.12031	0.12031	0.000	-9.01194	60.00000	Averaged
81 p-Terphenyl-d14	0.72015	0.73651	0.73651	0.000	2.27163	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.60923	0.57218	0.57218	0.000	-6.08077	60.00000	Averaged
2 Pyridine	0.89373	0.67690	0.67690	0.000	-24.26051	60.00000	Averaged
4 Aniline	0.55542	0.50332	0.50332	0.000	-9.38073	60.00000	Averaged
6 Phenol	1.21617	1.17309	1.17309	0.001	-3.54259	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.83144	0.74294	0.74294	0.000	-10.64430	60.00000	Averaged
8 2-Chlorophenol	1.05605	1.02399	1.02399	0.000	-3.03618	60.00000	Averaged
203 n-Decane	1.08949	1.10768	1.10768	0.000	1.66910	60.00000	Averaged
9 1,3-Dichlorobenzene	1.25240	1.20785	1.20785	0.000	-3.55721	60.00000	Averaged
11 1,4-Dichlorobenzene	1.29215	1.21176	1.21176	0.001	-6.22171	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.20194	1.13600	1.13600	0.000	-5.48562	60.00000	Averaged
14 bis(2-Chloroisopropyl) ether	1.63019	1.56683	1.56683	0.000	-3.88699	60.00000	Averaged
12 Benzyl alcohol	0.66057	0.64188	0.64188	0.000	-2.82972	60.00000	Averaged
15 o-Cresol	0.84463	0.81254	0.81254	0.000	-3.79849	60.00000	Averaged
18 m,p-Cresols	1.06890	1.06346	1.06346	0.000	-0.50838	60.00000	Averaged
17 N-Nitrosodipropylamine	0.77788	0.74120	0.74120	0.050	-4.71529	60.00000	Averaged spcc
19 Hexachloroethane	0.48694	0.45665	0.45665	0.000	-6.22059	60.00000	Averaged
21 Nitrobenzene	0.29331	0.27681	0.27681	0.000	-5.62390	60.00000	Averaged
22 Isophorone	0.53999	0.49377	0.49377	0.000	-8.55934	60.00000	Averaged
23 2-Nitrophenol	0.13462	0.13301	0.13301	0.001	-1.19474	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.23932	0.22527	0.22527	0.000	-5.87154	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.30282	0.26637	0.26637	0.000	-12.03559	60.00000	Averaged
26 2,4-Dichlorophenol	0.21654	0.20901	0.20901	0.001	-3.47894	20.00000	Averaged ccc
27 Benzoic acid	41.94960	40.00000	0.11609	0.000	4.87400	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.29118	0.26506	0.26506	0.000	-8.96931	60.00000	Averaged
30 Naphthalene	35.39177	40.00000	0.76629	0.000	-11.52057	60.00000	Linear
204 alpha-Terpineol	0.22259	0.20059	0.20059	0.000	-9.88109	60.00000	Averaged
31 4-Chloroaniline	0.28585	0.27423	0.27423	0.000	-4.06642	60.00000	Averaged
32 Hexachlorobutadiene	0.18110	0.17017	0.17017	0.001	-6.03393	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23429	0.22644	0.22644	0.001	-3.34816	20.00000	Averaged ccc
34 2-Methylnaphthalene	37.56535	40.00000	0.54491	0.000	-6.08662	60.00000	Linear

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 20-FEB-2010 18:09
Lab File ID: s8b2012.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.1 Quant Type: ISTD
Method: /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF %D / %DRIFT	%D / %DRIFT	
35 1-Methylnaphthalene	36.14060	40.00000	0.51338	0.000	-9.64851	60.00000 Linear
36 Hexachlorocyclopentadiene	0.24827	0.20951	0.20951	0.050	-15.61096	60.00000 Averaged spcc
205 2,3-Dichloroaniline	0.52803	0.47281	0.47281	0.000	-10.45916	60.00000 Averaged
37 2,4,6-Trichlorophenol	0.30819	0.28652	0.28652	0.001	-7.02903	20.00000 Averaged ccc
38 2,4,5-Trichlorophenol	0.32711	0.32121	0.32121	0.000	-1.80308	60.00000 Averaged
40 2-Chloronaphthalene	36.94398	40.00000	0.91069	0.000	-7.64006	60.00000 Linear
42 o-Nitroaniline	0.27392	0.25926	0.25926	0.000	-5.35118	60.00000 Averaged
41 m-Nitroaniline	0.20877	0.20131	0.20131	0.000	-3.57417	60.00000 Averaged
43 Dimethylphthalate	1.12088	1.03748	1.03748	0.000	-7.44016	60.00000 Averaged
44 2,6-Dinitrotoluene	0.25341	0.23417	0.23417	0.000	-7.59187	60.00000 Averaged
50 2,4-Dinitrotoluene	0.32492	0.29882	0.29882	0.000	-8.03184	60.00000 Averaged
45 Acenaphthylene	1.66068	1.47808	1.47808	0.000	-10.99555	60.00000 Averaged
47 Acenaphthene	1.06294	0.89925	0.89925	0.001	-15.39975	20.00000 Averaged ccc
48 2,4-Dinitrophenol	42.02206	40.00000	0.08759	0.050	5.05516	60.00000 Linear spcc
49 Dibenzofuran	1.39464	1.27908	1.27908	0.000	-8.28625	60.00000 Averaged
51 Diethylphthalate	1.17311	1.07200	1.07200	0.000	-8.61955	60.00000 Averaged
52 4-Nitrophenol	0.13654	0.14391	0.14391	0.050	5.40043	60.00000 Averaged spcc
53 Fluorene	1.29100	1.07540	1.07540	0.000	-16.69989	60.00000 Averaged
54 4-Chlorophenylphenylether	0.62173	0.54162	0.54162	0.000	-12.88500	60.00000 Averaged
55 2-Methyl-4,6-dinitrophenol	48.66926	40.00000	0.10060	0.000	21.67316	60.00000 Linear
56 p-Nitroaniline	0.18448	0.18495	0.18495	0.000	0.25453	60.00000 Averaged
133 Diphenylamine	0.50546	0.46520	0.46520	0.001	-7.96469	20.00000 Averaged ccc
58 1,2-Diphenylhydrazine	0.59375	0.56532	0.56532	0.000	-4.78833	60.00000 Averaged
61 4-Bromophenylphenylether	0.19114	0.16319	0.16319	0.000	-14.62019	60.00000 Averaged
63 Hexachlorobenzene	0.19866	0.17428	0.17428	0.000	-12.27477	60.00000 Averaged
65 Pentachlorophenol	0.08849	0.08776	0.08776	0.001	-0.83218	20.00000 Averaged ccc
206 n-Octadecane	0.39703	0.39262	0.39262	0.000	-1.10928	60.00000 Averaged
68 Phenanthrene	35.36562	40.00000	0.82559	0.000	-11.58594	60.00000 Linear
69 Anthracene	0.97083	0.82497	0.82497	0.000	-15.02413	60.00000 Averaged
72 Di-n-butylphthalate	1.01476	0.94515	0.94515	0.000	-6.85986	60.00000 Averaged
76 Fluoranthene	1.01786	0.89285	0.89285	0.001	-12.28130	20.00000 Averaged ccc
79 Pyrene	1.24889	1.05447	1.05447	0.000	-15.56774	60.00000 Averaged
85 Butylbenzylphthalate	0.43672	0.42071	0.42071	0.000	-3.66508	60.00000 Averaged
89 Benzo(a)anthracene	1.05261	0.90191	0.90191	0.000	-14.31645	60.00000 Averaged
92 Chrysene	36.32073	40.00000	0.83331	0.000	-9.19818	60.00000 Linear
93 bis(2-Ethylhexyl)phthalate	0.61117	0.58944	0.58944	0.000	-3.55520	60.00000 Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 20-FEB-2010 18:09
Lab File ID: s8b2012.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.1 Quant Type: ISTD
Method: /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	39.76021	40.00000	1.22616	0.001	-0.59948	20.00000	Linear ccc
95 Benzo(b)fluoranthene	1.13405	1.05298	1.05298	0.000	-7.14838	60.00000	Averaged
96 Benzo(k)fluoranthene	1.14008	1.04465	1.04465	0.000	-8.37069	60.00000	Averaged
97 Benzo(a)pyrene	0.95647	0.89169	0.89169	0.001	-6.77277	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.79303	0.69287	0.69287	0.000	-12.62907	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.61288	0.52486	0.52486	0.000	-14.36175	60.00000	Averaged
101 Benzo(ghi)perylene	0.65613	0.54043	0.54043	0.000	-17.63270	60.00000	Averaged
126 m-Dinitrobenzene	0.16162	0.15617	0.15617	0.000	-3.37054	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.27739	0.25140	0.25140	0.000	-9.36867	60.00000	Averaged
143 Dinoseb	39.33235	40.00000	0.11528	0.000	-1.66914	60.00000	Linear
173 Carbazole	0.69337	0.64707	0.64707	0.000	-6.67637	60.00000	Averaged
184 p-Benzoquinone	26.23116	40.00000	0.11601	0.000	-34.42209	60.00000	Linear
192 Methoxychlor	0.57371	0.53574	0.53574	0.000	-6.61792	60.00000	Averaged
211 p-Toluidine	1.14055	0.88750	0.88750	0.000	-22.18641	60.00000	Averaged
210 m-Toluidine	1.48620	1.44197	1.44197	0.000	-2.97629	60.00000	Averaged
26 Phthalic anhydride	53.94737	40.00000	0.17465	0.000	34.86844	60.00000	Linear
179 Dibenzo(a,e)pyrene	0.26112	0.15069	0.15069	0.000	-42.29332	60.00000	Averaged
214 1,4-Dinitrobenzene	0.17136	0.17062	0.17062	0.000	-0.43576	60.00000	Averaged
215 2-Ethoxyethanol	0.57374	0.58779	0.58779	0.000	2.44852	60.00000	Averaged
216 Methylenebis(2-chloroanilin	41.74874	40.00000	0.12008	0.000	4.37185	60.00000	Linear
M 222 Trichlorophenols	0.31765	0.30387	0.30387	0.000	-4.33823	60.00000	Averaged
M 223 Tetrachlorophenols	0.27739	0.25140	0.25140	0.000	-9.36867	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	1.13706	1.04881	1.04881	0.000	-7.76116	60.00000	Averaged

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Data file : /chem/MSD8.i/s022010.b/s8b2012.d
Lab Smp Id: WBN100215-05.1 Client Smp ID: MEGAICV
Inj Date : 20-FEB-2010 18:09
Operator : nagl Inst ID: MSD8.i
Smp Info : |WBN100215-05.1|40 PPM|1|SVM|1|MEGAICV
Misc Info : |MSD8270|WBN100217-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m
Meth Date : 23-Feb-2010 13:25 nat00999 Quant Type: ISTD
Cal Date : 22-FEB-2010 01:19 Cal File: s8b2046.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGAICARE.sub
Target Version: 3.50
Processing Host: hpclp1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	4.530	4.530	(1.000)	613599	40.0000	
* 29 Naphthalene-d8	136	5.797	5.797	(1.000)	2473544	40.0000	
* 46 Acenaphthene-d10	164	7.663	7.663	(1.000)	1402775	40.0000	
* 67 Phenanthrene-d10	188	9.263	9.263	(1.000)	2635307	40.0000	
* 91 Chrysene-d12	240	12.197	12.197	(1.000)	2302220	40.0000	
* 98 Perylene-d12	264	14.354	14.354	(1.000)	1521193	40.0000	
\$ 3 2-Fluorophenol	112	3.368	3.368	(0.743)	559924	40.0000	38.6
\$ 5 Phenol-d5	99	4.149	4.149	(0.916)	687028	40.0000	38.0
\$ 20 Nitrobenzene-d5	82	5.063	5.063	(0.873)	703589	40.0000	40.0
\$ 39 2-Fluorobiphenyl	172	6.925	6.925	(0.904)	1556680	40.0000	37.7
\$ 60 2,4,6-Tribromophenol	329	8.506	8.506	(1.110)	168767	40.0000	36.4
\$ 81 p-Terphenyl-d14	244	10.978	10.978	(0.900)	1695598	40.0000	40.9
1 N-Methyl-N-nitrosomethylamine	74	2.382	2.382	(0.526)	351092	40.0000	37.6
2 Pyridine	79	2.420	2.420	(0.534)	415348	40.0000	30.3
4 Aniline	66	4.220	4.220	(0.932)	308837	40.0000	36.2
6 Phenol	94	4.163	4.163	(0.919)	719807	40.0000	38.6 (Q)
7 bis(2-Chloroethyl) ether	63	4.263	4.263	(0.941)	455867	40.0000	35.7
8 2-Chlorophenol	128	4.335	4.335	(0.957)	628318	40.0000	38.8
203 n-Decane	43	4.354	4.354	(0.961)	679671	40.0000	40.7
9 1,3-Dichlorobenzene	146	4.477	4.477	(0.988)	741134	40.0000	38.6
11 1,4-Dichlorobenzene	146	4.549	4.549	(1.004)	743535	40.0000	37.5
13 1,2-Dichlorobenzene	146	4.692	4.692	(1.036)	697051	40.0000	37.8
14 bis(2-Chloroisopropyl)ether	45	4.768	4.768	(1.053)	961403	40.0000	38.4
12 Benzyl alcohol	108	4.644	4.644	(1.025)	393855	40.0000	38.9 (H)
15 o-Cresol	107	4.735	4.735	(1.045)	498576	40.0000	38.5
18 m,p-Cresols	107	4.887	4.887	(1.079)	652539	40.0000	39.8

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.906	4.906 (1.083)	454801	40.0000	38.1
19 Hexachloroethane	117	5.025	5.025 (1.109)	280201	40.0000	37.5
21 Nitrobenzene	77	5.082	5.082 (0.877)	684707	40.0000	37.8
22 Isophorone	82	5.320	5.320 (0.918)	1221372	40.0000	36.6
23 2-Nitrophenol	139	5.397	5.397 (0.931)	329005	40.0000	39.5
24 2,4-Dimethylphenol	122	5.420	5.420 (0.935)	557217	40.0000	37.6
25 bis(2-Chloroethoxy)methane	93	5.525	5.525 (0.953)	658886	40.0000	35.2
26 2,4-Dichlorophenol	162	5.644	5.644 (0.974)	516992	40.0000	38.6
27 Benzoic acid	105	5.539	5.539 (0.956)	287142	40.0000	41.9
28 1,2,4-Trichlorobenzene	180	5.735	5.735 (0.989)	655648	40.0000	36.4
30 Naphthalene	128	5.820	5.820 (1.004)	1895442	40.0000	35.4
204 alpha-Terpineol	59	5.816	5.816 (1.003)	496172	40.0000	36.0
31 4-Chloroaniline	127	5.863	5.863 (1.012)	678318	40.0000	38.4
32 Hexachlorobutadiene	225	5.939	5.939 (1.025)	420920	40.0000	37.6
33 4-Chloro-3-methylphenol	107	6.354	6.354 (1.096)	560118	40.0000	38.7
34 2-Methylnaphthalene	142	6.539	6.539 (1.128)	1347856	40.0000	37.6
35 1-Methylnaphthalene	142	6.649	6.649 (1.147)	1269859	40.0000	36.1
36 Hexachlorocyclopentadiene	237	6.706	6.706 (0.875)	293896	40.0000	33.8
205 2,3-Dichloroaniline	161	6.835	6.835 (0.892)	663240	40.0000	35.8
37 2,4,6-Trichlorophenol	196	6.835	6.835 (0.892)	401928	40.0000	37.2
38 2,4,5-Trichlorophenol	196	6.873	6.873 (0.897)	450584	40.0000	39.3
40 2-Chloronaphthalene	162	7.063	7.063 (0.922)	1277487	40.0000	36.9
42 o-Nitroaniline	65	7.163	7.163 (0.935)	363688	40.0000	37.8
41 m-Nitroaniline	138	7.606	7.606 (0.993)	282391	40.0000	38.6
43 Dimethylphthalate	163	7.363	7.363 (0.961)	1455357	40.0000	37.0
44 2,6-Dinitrotoluene	165	7.425	7.425 (0.969)	328490	40.0000	37.0
50 2,4-Dinitrotoluene	165	7.854	7.854 (1.025)	419181	40.0000	36.8
45 Acenaphthylene	152	7.511	7.511 (0.980)	2073418	40.0000	35.6
47 Acenaphthene	154	7.697	7.697 (1.004)	1261448	40.0000	33.8
48 2,4-Dinitrophenol	184	7.711	7.711 (1.006)	122866	40.0000	42.0
49 Dibenzofuran	168	7.878	7.878 (1.028)	1794261	40.0000	36.7
51 Diethylphthalate	149	8.111	8.111 (1.058)	1503769	40.0000	36.6
52 4-Nitrophenol	139	7.768	7.768 (1.014)	201873	40.0000	42.2
53 Fluorene	166	8.249	8.249 (1.076)	1508548	40.0000	33.3
54 4-Chlorophenylphenylether	204	8.239	8.239 (1.075)	759775	40.0000	34.8
55 2-Methyl-4,6-dinitrophenol	198	8.297	8.297 (0.896)	265115	40.0000	48.7
56 p-Nitroaniline	138	8.263	8.263 (1.078)	259438	40.0000	40.1
133 Diphenylamine	169	8.368	8.368 (0.903)	1225948	40.0000	36.8
58 1,2-Diphenylhydrazine	77	8.416	8.416 (0.908)	1489780	40.0000	38.1
61 4-Bromophenylphenylether	248	8.768	8.768 (0.947)	430063	40.0000	34.2
63 Hexachlorobenzene	284	8.839	8.839 (0.954)	459277	40.0000	35.1
65 Pentachlorophenol	266	9.049	9.049 (0.977)	231262	40.0000	39.7
206 n-Octadecane	57	9.125	9.125 (0.985)	1034683	40.0000	39.6
68 Phenanthrene	178	9.292	9.292 (1.003)	2175678	40.0000	35.4
69 Anthracene	178	9.344	9.344 (1.009)	2174061	40.0000	34.0
72 Di-n-butylphthalate	149	9.873	9.873 (1.066)	2490757	40.0000	37.2
76 Fluoranthene	202	10.573	10.573 (1.141)	2352940	40.0000	35.1

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	10.820	10.820	(0.887)	2427617	40.0000	33.8
85 Butylbenzylphthalate	149	11.497	11.497	(0.943)	968576	40.0000	38.5
89 Benzo(a)anthracene	228	12.178	12.178	(0.998)	2076405	40.0000	34.3
92 Chrysene	228	12.230	12.230	(1.003)	1918472	40.0000	36.3
93 bis(2-Ethylhexyl)phthalate	149	12.182	12.182	(0.999)	1357026	40.0000	38.6
94 Di-n-octylphthalate	149	13.097	13.097	(0.912)	1865222	40.0000	39.8
95 Benzo(b)fluoranthene	252	13.720	13.720	(0.956)	1601785	40.0000	37.1 (H)
96 Benzo(k)fluoranthene	252	13.768	13.768	(0.959)	1589110	40.0000	36.6
97 Benzo(a)pyrene	252	14.254	14.254	(0.993)	1356428	40.0000	37.3
99 Indeno(1,2,3-cd)pyrene	276	16.220	16.220	(1.130)	1053996	40.0000	34.9
100 Dibenzo(a,h)anthracene	278	16.254	16.254	(1.132)	798414	40.0000	34.2
101 Benzo(ghi)perylene	276	16.701	16.701	(1.164)	822104	40.0000	32.9
126 m-Dinitrobenzene	168	7.392	7.392	(0.965)	219071	40.0000	38.6
130 2,3,4,6-Tetrachlorophenol	232	8.001	8.001	(1.044)	352660	40.0000	36.2
143 Dinoseb	211	9.239	9.239	(0.997)	303786	40.0000	39.3
173 Carbazole	167	9.511	9.511	(1.027)	1705240	40.0000	37.3
184 p-Benzoquinone	54	3.787	3.787	(0.836)	71181	40.0000	26.2
192 Methoxychlor	227	12.078	12.078	(0.990)	1233392	40.0000	37.4
211 p-Toluidine	106	4.949	4.949	(1.093)	544571	40.0000	31.1
210 m-Toluidine	106	4.982	4.982	(1.100)	884790	40.0000	38.8
26 Phthalic anhydride	104	6.597	6.597	(1.138)	432011	40.0000	53.9
179 Dibenzo(a,e)pyrene	302	19.925	19.925	(1.388)	229221	40.0000	23.1
214 1,4-Dinitrobenzene	75	7.311	7.311	(0.954)	239338	40.0000	39.8
215 2-Ethoxyethanol	59	2.177	2.177	(0.481)	360665	40.0000	41.0
216 Methylenebis(2-chloroaniline)	231	12.135	12.135	(0.995)	276453	40.0000	41.7 (Q)
M 222 Trichlorophenols	196				852512	80.0000	76.5
M 223 Tetrachlorophenols	232				352660	40.0000	36.2
M 224 Benzo(b,k)fluoranthene	252				3190895	80.0000	73.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD8.1/s022010.b/s8b2012.d

Date: 20-FEB-2010 18:09

Client ID: MEGAICV

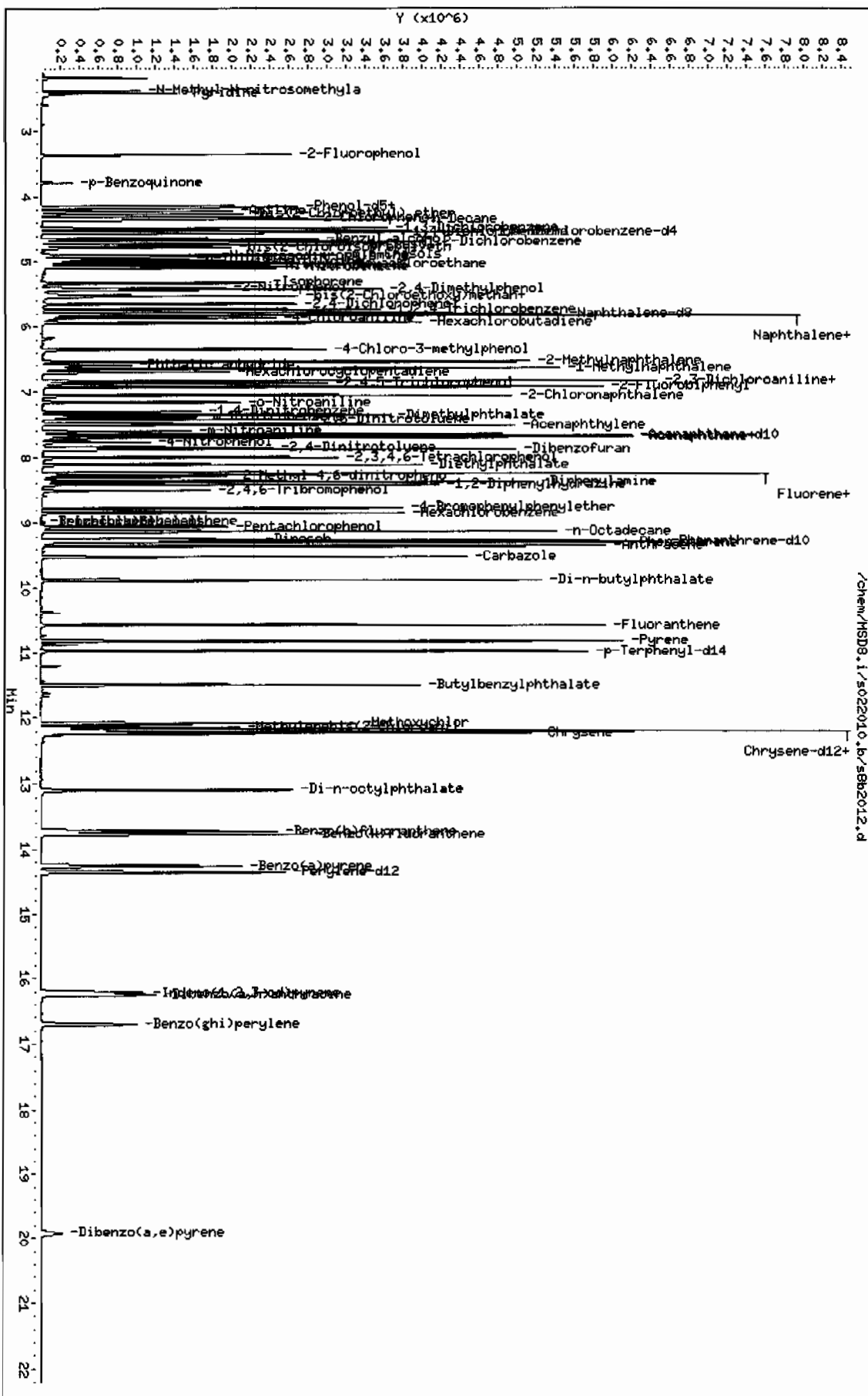
Sample Info: MBN100215-05.1140 PPH115VH11MEGAICV

Column phase: J&W DB-SMS

Instrument: MSD8.1

Operator: nagl

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 21-FEB-2010 19:53
Lab File ID: s8b2035.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
Method: /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84330	0.69688	0.69688	0.000	-17.36320	60.00000	Averaged
16 Acetophenone	1.20309	1.14109	1.14109	0.000	-5.15283	60.00000	Averaged
189 Caprolactam	0.06655	0.06831	0.06831	0.000	2.63428	60.00000	Averaged
208 1,1'-Biphenyl	1.22219	1.19703	1.19703	0.000	-2.05853	60.00000	Averaged
207 Atrazine	0.03531	0.03806	0.03806	0.000	7.78782	60.00000	Averaged
77 Benzidine	41.98033	40.00000	0.31874	0.000	4.95082	60.00000	Linear
90 3,3'-Dichlorobenzidine	0.24780	0.27320	0.27320	0.000	10.24947	60.00000	Averaged
102 1,4-Dioxane	0.32319	0.37708	0.37708	0.000	16.67521	60.00000	Averaged
103 Methyl methacrylate	0.16817	0.19675	0.19675	0.000	16.99914	60.00000	Averaged
104 Ethyl methacrylate	0.67963	0.79943	0.79943	0.000	17.62812	60.00000	Averaged
105 2-Picoline	1.09294	1.07981	1.07981	0.000	-1.20157	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.43986	0.46246	0.46246	0.000	5.13741	60.00000	Averaged
107 Methyl methanesulfonate	0.49950	0.54492	0.54492	0.000	9.09235	60.00000	Averaged
108 N-Nitrosodiethylamine	0.45804	0.47767	0.47767	0.000	4.28449	60.00000	Averaged
109 Ethyl Methanesulfonate	0.60902	0.73730	0.73730	0.000	21.06290	60.00000	Averaged
110 Pentachloroethane	0.32092	0.43327	0.43327	0.000	35.01075	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49059	0.49284	0.49284	0.000	0.45905	60.00000	Averaged
113 N-Nitrosomorpholine	0.66385	0.70342	0.70342	0.000	5.95974	60.00000	Averaged
114 o-Toluidine	1.62183	1.64404	1.64404	0.000	1.36960	60.00000	Averaged
115 N-Nitrosopiperidine	0.12437	0.12589	0.12589	0.000	1.22448	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.74304	0.77809	0.77809	0.000	4.71795	60.00000	Averaged
118 2,6-Dichlorophenol	0.20154	0.20467	0.20467	0.000	1.55320	60.00000	Averaged
119 Hexachloropropene	0.12360	0.18944	0.18944	0.000	53.26602	60.00000	Averaged
120 p-Phenylenediamine	0.19655	0.20159	0.20159	0.000	2.56438	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21161	0.22736	0.22736	0.000	7.44405	60.00000	Averaged
122 Safrole	0.19334	0.21416	0.21416	0.000	10.76780	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47582	0.48716	0.48716	0.000	2.38273	60.00000	Averaged
124 Isosafrole	0.32130	0.41354	0.41354	0.000	28.70739	60.00000	Averaged
125 1,4-Naphthoquinone	0.29641	0.29356	0.29356	0.000	-0.96298	60.00000	Averaged
127 Pentachlorobenzene	0.43422	0.41984	0.41984	0.000	-3.31212	60.00000	Averaged
128 1-Naphthylamine	0.84230	0.87716	0.87716	0.000	4.13822	60.00000	Averaged
129 2-Naphthylamine	0.88763	0.93442	0.93442	0.000	5.27090	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24122	0.24992	0.24992	0.000	3.60687	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.09499	0.13160	0.13160	0.000	38.54101	60.00000	Averaged
137 Phenacetin	0.21690	0.22945	0.22945	0.000	5.79020	60.00000	Averaged
138 Diallate	0.20203	0.19101	0.19101	0.000	-5.45490	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 21-FEB-2010 19:53
 Lab File ID: s8b2035.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
 Analysis Type: Init. Cal. Times: 12:55 01:19
 Lab Sample ID: WBN100218-08.1 Quant Type: ISTD
 Method: /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.20071	0.25770	0.25770	0.000	28.39010	60.00000	Averaged
213 Trans Diallate	0.23769	0.22472	0.22472	0.000	-5.45490	60.00000	Averaged
140 4-Aminobiphenyl	0.51727	0.55152	0.55152	0.000	6.62074	60.00000	Averaged
141 Pentachloronitrobenzene	0.07936	0.08310	0.08310	0.000	4.70392	60.00000	Averaged
142 Pronamide	0.25230	0.26699	0.26699	0.000	5.82308	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01907	0.01438	0.01438	0.000	-24.58503	60.00000	Averaged
147 Methapyrilene	0.29186	0.32275	0.32275	0.000	10.58368	60.00000	Averaged
148 Isodrin	0.10718	0.09605	0.09605	0.000	-10.38226	60.00000	Averaged
149 Aramite	0.03388	0.03359	0.03359	0.000	-0.86154	60.00000	Averaged
150 Kepone	0.07795	0.07692	0.07692	0.000	-1.31942	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.25808	0.27705	0.27705	0.000	7.35059	60.00000	Averaged
152 Chlorobenzilate	0.26271	0.28217	0.28217	0.000	7.40895	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.45535	0.49139	0.49139	0.000	7.91309	60.00000	Averaged
155 2-Acetylaminofluorene	42.39036	40.00000	0.24154	0.000	5.97589	60.00000	Linear
157 7,12Dimethylbenz(a)anthrace	0.51909	0.49026	0.49026	0.000	-5.55329	60.00000	Averaged
158 3-Methylcholanthrene	0.36780	0.40291	0.40291	0.000	9.54489	60.00000	Averaged

GEL Laboratories LLC

Data file : /chem/MSD8.i/s022010.b/s8b2035.d
Lab Smp Id: WBN100218-08.1 Client Smp ID: APICV
Inj Date : 21-FEB-2010 19:53
Operator : nagl Inst ID: MSD8.i
Smp Info : |WBN100218-08.1|40 PPM|1|SVM|1|APICV
Misc Info : |MSD8270|WBN100217-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s022010.b/MSD8-8270AQA-022010.m
Meth Date : 23-Feb-2010 13:31 nat00999 Quant Type: ISTD
Cal Date : 22-FEB-2010 00:48 Cal File: s8b2045.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 MASS	RT ==	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	4.530	4.530	(1.000)	649861	40.0000	
* 29 Naphthalene-d8	136	5.796	5.796	(1.000)	2469894	40.0000	
* 46 Acenaphthene-d10	164	7.658	7.658	(1.000)	1465298	40.0000	
* 67 Phenanthrene-d10	188	9.263	9.263	(1.000)	2747481	40.0000	
* 91 Chrysene-d12	240	12.192	12.192	(1.000)	2214467	40.0000	
* 98 Perylene-d12	264	14.349	14.349	(1.000)	1648118	40.0000	
209 Benzaldehyde	77	4.125	4.125	(0.911)	452872	40.0000	33.0
16 Acetophenone	105	4.906	4.906	(1.083)	741552	40.0000	37.9
189 Caprolactam	113	6.225	6.225	(1.074)	168712	40.0000	41.0 (H)
208 1,1'-Biphenyl	154	7.034	7.034	(0.919)	1754011	40.0000	39.2
207 Atrazine	173	8.939	8.939	(0.965)	104582	40.0000	43.1
77 Benzidine	184	10.706	10.706	(0.878)	705844	40.0000	42.0
90 3,3'-Dichlorobenzidine	252	12.130	12.130	(0.995)	604986	40.0000	44.1
102 1,4-Dioxane	88	2.177	2.177	(0.481)	245052	40.0000	46.7
103 Methyl methacrylate	100	2.177	2.177	(0.481)	127862	40.0000	46.8
104 Ethyl methacrylate	69	2.692	2.692	(0.594)	519520	40.0000	47.0
105 2-Picoline	93	2.939	2.939	(0.649)	701726	40.0000	39.5
106 N-Nitrosomethylethylamine	88	3.011	3.011	(0.665)	300533	40.0000	42.0
107 Methyl methanesulfonate	80	3.239	3.239	(0.715)	354120	40.0000	43.6
108 N-Nitrosodiethylamine	102	3.568	3.568	(0.788)	310419	40.0000	41.7
109 Ethyl Methanesulfonate	79	3.806	3.806	(0.840)	479140	40.0000	48.4
110 Pentachloroethane	167	4.268	4.268	(0.942)	281568	40.0000	54.0
111 N-Nitrosopyrrolidine	100	4.887	4.887	(1.079)	320276	40.0000	40.2 (Q)
113 N-Nitrosomorpholine	56	4.925	4.925	(1.087)	457122	40.0000	42.4
114 o-Toluidine	106	4.944	4.944	(1.091)	1068400	40.0000	40.5
115 N-Nitrosopiperidine	114	5.230	5.230	(0.902)	310940	40.0000	40.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
116 a,a-Dimethylphenethylamine	58	5.630	5.630	(0.971)	1921805	40.0000	41.9
118 2,6-Dichlorophenol	162	5.872	5.872	(1.013)	505519	40.0000	40.6
119 Hexachloropropene	213	5.906	5.906	(1.019)	467897	40.0000	61.3
120 p-Phenylenediamine	108	6.230	6.230	(1.075)	497912	40.0000	41.0
121 N-Nitrosodi-n-butylamine	84	6.211	6.211	(1.071)	561557	40.0000	43.0
122 Safrole	162	6.439	6.439	(1.111)	528955	40.0000	44.3
123 1,2,4,5-Tetrachlorobenzene	216	6.715	6.715	(0.877)	713829	40.0000	41.0
124 Isosafrole	162	6.992	6.992	(0.913)	605957	40.0000	51.5
125 1,4-Naphthoquinone	158	7.244	7.244	(0.946)	430153	40.0000	39.6
127 Pentachlorobenzene	250	7.830	7.830	(1.022)	615188	40.0000	38.7
128 1-Naphthylamine	143	7.958	7.958	(1.039)	1285298	40.0000	41.6
129 2-Naphthylamine	143	8.044	8.044	(1.050)	1369199	40.0000	42.1
131 5-Nitro-o-toluidine	152	8.249	8.249	(1.077)	366207	40.0000	41.4
136 1,3,5-Trinitrobenzene	75	8.634	8.634	(0.932)	361581	40.0000	55.4
137 Phenacetin	108	8.701	8.701	(0.939)	630422	40.0000	42.3 (Q)
138 Diallate	86	8.673	8.673	(0.936)	524804	40.0000	37.8
212 Cis Diallate	86	8.768	8.768	(0.947)	106203	6.00000	7.7
213 Trans Diallate	86	8.673	8.673	(0.936)	524804	34.0000	32.1
140 4-Aminobiphenyl	169	9.049	9.049	(0.977)	1515283	40.0000	42.6
141 Pentachloronitrobenzene	237	9.063	9.063	(0.978)	228304	40.0000	41.9 (Q)
142 Pronamide	173	9.106	9.106	(0.983)	733556	40.0000	42.3
146 4-Nitroquinoline-1-oxide	101	10.111	10.111	(1.091)	39509	40.0000	30.2
147 Methapyrilene	58	10.192	10.192	(1.100)	886744	40.0000	44.2
148 Isodrin	193	10.411	10.411	(1.124)	263898	40.0000	35.8
149 Aramite	185	10.944	10.944	(1.181)	92281	40.0000	39.6
150 Kepone	272	11.563	11.563	(1.248)	211334	40.0000	39.5
151 p-(Dimethylamino)azobenzene	120	11.125	11.125	(0.912)	613518	40.0000	42.9
152 Chlorobenzilate	251	11.173	11.173	(0.916)	624855	40.0000	43.0
153 3,3'-Dimethylbenzidine	212	11.487	11.487	(0.942)	1088156	40.0000	43.2
155 2-Acetylaminofluorene	181	11.782	11.782	(0.966)	534890	40.0000	42.4
157 7,12Dimethylbenz(a)anthracene	256	13.706	13.706	(0.955)	808013	40.0000	37.8
158 3-Methylcholanthrene	268	14.849	14.849	(1.035)	664045	40.0000	43.8 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/MSD8.1/s022010.b/sb02035.d

Date: 21-FEB-2010 19:53

Client ID: APICV

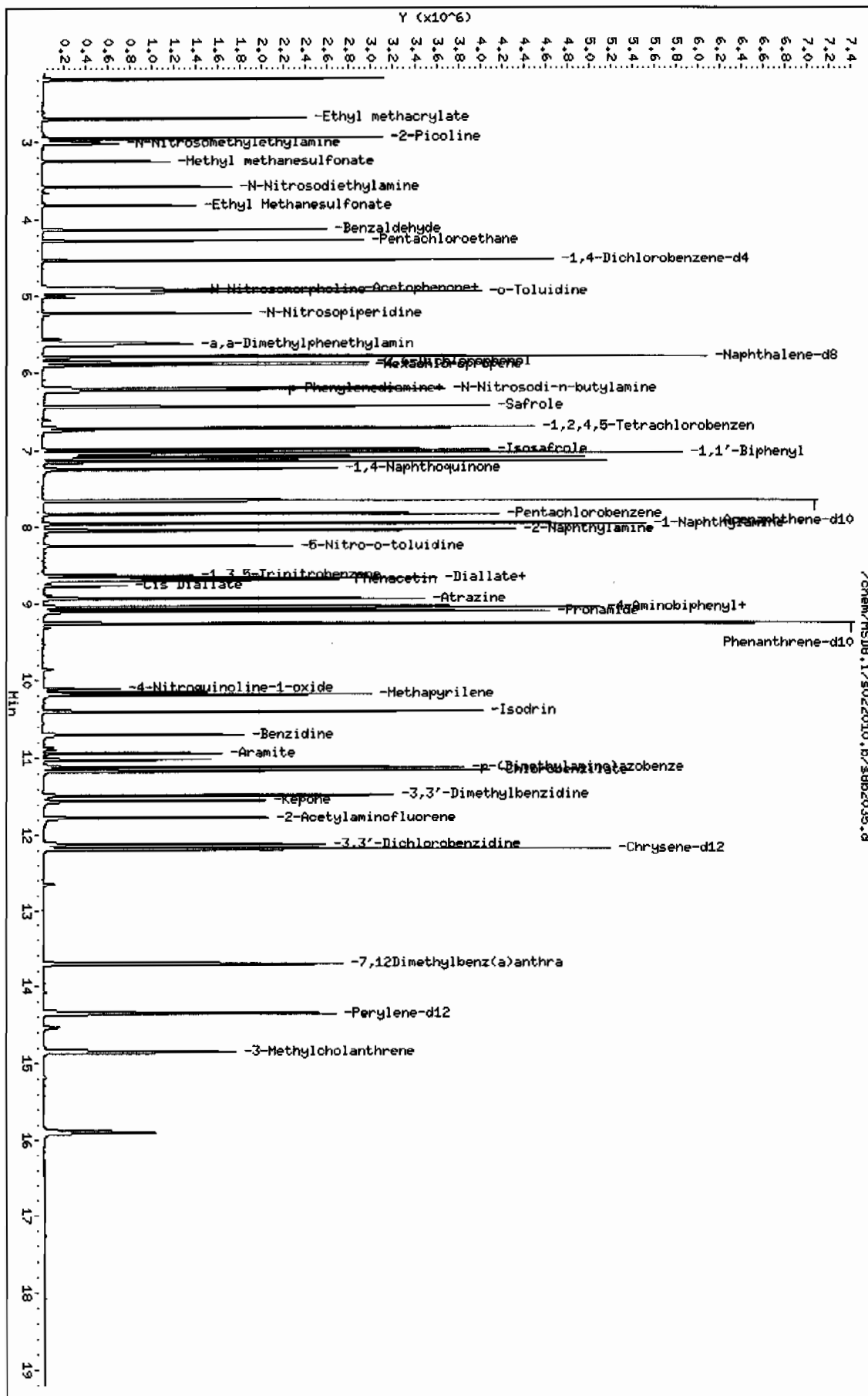
Sample Info: IWB100218-08.1140 PPH11SVH11APICV

Column phase: 3M DB-SMS

Instrument: MSD8.1

Operator: nag1

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 01-MAR-2010 12:28
Lab File ID: s8c0102.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.3 Quant Type: ISTD
Method: /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 3 2-Fluorophenol	0.94435	0.87945	0.87945	0.000	-6.87207	60.00000	Averaged
\$ 5 Phenol-d5	1.17771	1.09409	1.09409	0.000	-7.10026	60.00000	Averaged
\$ 20 Nitrobenzene-d5	0.28435	0.25249	0.25249	0.000	-11.20235	60.00000	Averaged
\$ 39 2-Fluorobiphenyl	1.17740	1.06897	1.06897	0.000	-9.20862	60.00000	Averaged
\$ 60 2,4,6-Tribromophenol	0.13223	0.13183	0.13183	0.000	-0.30034	60.00000	Averaged
\$ 81 p-Terphenyl-d14	0.72015	0.60412	0.60412	0.000	-16.11180	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.60923	0.51643	0.51643	0.000	-15.23300	60.00000	Averaged
2 Pyridine	0.89373	0.75499	0.75499	0.000	-15.52356	60.00000	Averaged
4 Aniline	0.55542	0.45641	0.45641	0.000	-17.82615	60.00000	Averaged
6 Phenol	1.21617	1.09605	1.09605	0.001	-9.87706	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.83144	0.66221	0.66221	0.000	-20.35411	60.00000	Averaged
8 2-Chlorophenol	1.05605	1.01503	1.01503	0.000	-3.88416	60.00000	Averaged
203 n-Decane	1.08949	0.71288	0.71288	0.000	-34.56742	60.00000	Averaged
9 1,3-Dichlorobenzene	1.25240	1.17501	1.17501	0.000	-6.17912	60.00000	Averaged
11 1,4-Dichlorobenzene	1.29215	1.22516	1.22516	0.001	-5.18441	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.20194	1.14419	1.14419	0.000	-4.80463	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.63019	0.98139	0.98139	0.000	-39.79927	60.00000	Averaged
12 Benzyl alcohol	0.66057	0.52226	0.52226	0.000	-20.93781	60.00000	Averaged
15 o-Cresol	0.84463	0.75531	0.75531	0.000	-10.57430	60.00000	Averaged
18 m,p-Cresols	1.06890	0.97862	0.97862	0.000	-8.44611	60.00000	Averaged
17 N-Nitrosodipropylamine	0.77788	0.66907	0.66907	0.050	-13.98791	60.00000	Averaged spcc
19 Hexachloroethane	0.48694	0.45232	0.45232	0.000	-7.11006	60.00000	Averaged
21 Nitrobenzene	0.29331	0.25206	0.25206	0.000	-14.06389	60.00000	Averaged
22 Isophorone	0.53999	0.47560	0.47560	0.000	-11.92465	60.00000	Averaged
23 2-Nitrophenol	0.13462	0.14106	0.14106	0.001	4.78428	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.23932	0.21562	0.21562	0.000	-9.90305	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.30282	0.28559	0.28559	0.000	-5.69097	60.00000	Averaged
26 2,4-Dichlorophenol	0.21654	0.22066	0.22066	0.001	1.90236	20.00000	Averaged ccc
27 Benzoic acid	44.99748	40.00000	0.12920	0.000	12.49369	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.29118	0.27020	0.27020	0.000	-7.20643	60.00000	Averaged
30 Naphthalene	38.78189	40.00000	0.84409	0.000	-3.04526	60.00000	Linear
204 alpha-Terpineol	0.22259	0.18651	0.18651	0.000	-16.20920	60.00000	Averaged
31 4-Chloroaniline	0.28585	0.29184	0.29184	0.000	2.09322	60.00000	Averaged
32 Hexachlorobutadiene	0.18110	0.16741	0.16741	0.001	-7.55565	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23429	0.21946	0.21946	0.001	-6.32681	20.00000	Averaged ccc
34 2-Methylnaphthalene	39.11640	40.00000	0.56822	0.000	-2.20901	60.00000	Linear

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 01-MAR-2010 12:28
Lab File ID: s8c0102.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.3 Quant Type: ISTD
Method: /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	39.23404	40.00000	0.55888	0.000	-1.91490	60.00000	Linear
36 Hexachlorocyclopentadiene	0.24827	0.21829	0.21829	0.050	-12.07611	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.52803	0.49529	0.49529	0.000	-6.20090	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30819	0.28793	0.28793	0.001	-6.57426	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.32711	0.29301	0.29301	0.000	-10.42502	60.00000	Averaged
40 2-Chloronaphthalene	36.40389	40.00000	0.89682	0.000	-8.99027	60.00000	Linear
42 o-Nitroaniline	0.27392	0.22664	0.22664	0.000	-17.26126	60.00000	Averaged
41 m-Nitroaniline	0.20877	0.19760	0.19760	0.000	-5.34856	60.00000	Averaged
43 Dimethylphthalate	1.12088	1.04375	1.04375	0.000	-6.88086	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25341	0.24398	0.24398	0.000	-3.71941	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32492	0.31594	0.31594	0.000	-2.76336	60.00000	Averaged
45 Acenaphthylene	1.66068	1.45657	1.45657	0.000	-12.29118	60.00000	Averaged
47 Acenaphthene	1.06294	0.89839	0.89839	0.001	-15.48050	20.00000	Averaged ccc
48 2,4-Dinitrophenol	50.73074	40.00000	0.11518	0.050	26.82684	60.00000	Linear spcc
49 Dibenzofuran	1.39464	1.28500	1.28500	0.000	-7.86203	60.00000	Averaged
51 Diethylphthalate	1.17311	1.08979	1.08979	0.000	-7.10264	60.00000	Averaged
52 4-Nitrophenol	0.13654	0.16378	0.16378	0.050	19.95511	60.00000	Averaged spcc
53 Fluorene	1.29100	1.15310	1.15310	0.000	-10.68149	60.00000	Averaged
54 4-Chlorophenylphenylether	0.62173	0.56096	0.56096	0.000	-9.77490	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	45.69161	40.00000	0.09346	0.000	14.22902	60.00000	Linear
56 p-Nitroaniline	0.18448	0.18117	0.18117	0.000	-1.79026	60.00000	Averaged
133 Diphenylamine	0.50546	0.48026	0.48026	0.001	-4.98477	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.59375	0.48972	0.48972	0.000	-17.52008	60.00000	Averaged
61 4-Bromophenylphenylether	0.19114	0.18231	0.18231	0.000	-4.62014	60.00000	Averaged
63 Hexachlorobenzene	0.19866	0.18256	0.18256	0.000	-8.10362	60.00000	Averaged
65 Pentachlorophenol	0.08849	0.09789	0.09789	0.001	10.62327	20.00000	Averaged ccc
206 n-Octadecane	0.39703	0.30445	0.30445	0.000	-23.31843	60.00000	Averaged
68 Phenanthrene	36.27535	40.00000	0.84807	0.000	-9.31164	60.00000	Linear
69 Anthracene	0.97083	0.85587	0.85587	0.000	-11.84146	60.00000	Averaged
72 Di-n-butylphthalate	1.01476	1.00550	1.00550	0.000	-0.91266	60.00000	Averaged
76 Fluoranthene	1.01786	0.92083	0.92083	0.001	-9.53223	20.00000	Averaged ccc
79 Pyrene	1.24889	0.97024	0.97024	0.000	-22.31233	60.00000	Averaged
85 Butylbenzylphthalate	0.43672	0.40492	0.40492	0.000	-7.28195	60.00000	Averaged
89 Benzo(a)anthracene	1.05261	0.87723	0.87723	0.000	-16.66113	60.00000	Averaged
92 Chrysene	35.56332	40.00000	0.81575	0.000	-11.09169	60.00000	Linear
93 bis(2-Ethylhexyl)phthalate	0.61117	0.59703	0.59703	0.000	-2.31309	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 01-MAR-2010 12:28
Lab File ID: s8c0102.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100215-05.3 Quant Type: ISTD
Method: /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	35.62607	40.00000	1.07906	0.001	-10.93484	20.00000 Linear ccc
95 Benzo(b)fluoranthene	1.13405	0.94463	0.94463	0.000	-16.70221	60.00000 Averaged
96 Benzo(k)fluoranthene	1.14008	0.97578	0.97578	0.000	-14.41124	60.00000 Averaged
97 Benzo(a)pyrene	0.95647	0.87557	0.87557	0.001	-8.45807	20.00000 Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.79303	0.76539	0.76539	0.000	-3.48506	60.00000 Averaged
100 Dibenzo(a,h)anthracene	0.61288	0.74254	0.74254	0.000	21.15504	60.00000 Averaged
101 Benzo(ghi)perylene	0.65613	0.74291	0.74291	0.000	13.22616	60.00000 Averaged
126 m-Dinitrobenzene	0.16162	0.16234	0.16234	0.000	0.44678	60.00000 Averaged
130 2,3,4,6-Tetrachlorophenol	0.27739	0.23707	0.23707	0.000	-14.53388	60.00000 Averaged
143 Dinoseb	45.61506	40.00000	0.13886	0.000	14.03765	60.00000 Linear
173 Carbazole	0.69337	0.58901	0.58901	0.000	-15.05051	60.00000 Averaged
184 p-Benzoquinone	11.30417	40.00000	0.04087	0.000	-71.73956	60.00000 Linear <-
192 Methoxychlor	0.57371	0.57662	0.57662	0.000	0.50764	60.00000 Averaged
211 p-Toluidine	1.14055	1.00830	1.00830	0.000	-11.59534	60.00000 Averaged
210 m-Toluidine	1.48620	1.27150	1.27150	0.000	-14.44636	60.00000 Averaged
26 Phthalic anhydride	30.12605	40.00000	0.08933	0.000	-24.68489	60.00000 Linear
179 Dibenzo(a,e)pyrene	0.26112	0.32622	0.32622	0.000	24.93098	60.00000 Averaged
214 1,4-Dinitrobenzene	0.17136	0.14709	0.14709	0.000	-14.16737	60.00000 Averaged
215 2-Ethoxyethanol	0.57374	0.44163	0.44163	0.000	-23.02571	60.00000 Averaged
216 Methylenebis(2-chloroanilin	32.75336	40.00000	0.08860	0.000	-18.11660	60.00000 Linear
M 222 Trichlorophenols	0.31765	0.29047	0.29047	0.000	-8.55699	60.00000 Averaged
M 223 Tetrachlorophenols	0.27739	0.23707	0.23707	0.000	-14.53388	60.00000 Averaged
M 224 Benzo(b,k)fluoranthene	1.13706	0.96021	0.96021	0.000	-15.55369	60.00000 Averaged

Data File: /chem/MSD8.i/s030110.b/s8c0102.d
Report Date: 02-Mar-2010 07:06

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030110.b/s8c0102.d
Lab Smp Id: WBN100215-05.3 Client Smp ID: MEGACVS
Inj Date : 01-MAR-2010 12:28
Operator : nagl Inst ID: MSD8.i
Smp Info : |WBN100215-05.3|40 PPM|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 07:06 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGAICARE.sub
Target Version: 3.50
Processing Host: hpclpl

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	4.316	4.316	(1.000)	382428	40.0000	
* 29 Naphthalene-d8	136	5.573	5.573	(1.000)	1513586	40.0000	
* 46 Acenaphthene-d10	164	7.425	7.425	(1.000)	930718	40.0000	
* 67 Phenanthrene-d10	188	9.016	9.016	(1.000)	1722494	40.0000	
* 91 Chrysene-d12	240	11.901	11.901	(1.000)	1730470	40.0000	
* 98 Perylene-d12	264	13.925	13.925	(1.000)	1407560	40.0000	
\$ 3 2-Fluorophenol	112	3.168	3.168	(0.734)	336326	40.0000	37.2
\$ 5 Phenol-d5	99	3.944	3.944	(0.914)	418409	40.0000	37.2
\$ 20 Nitrobenzene-d5	82	4.844	4.844	(0.869)	382169	40.0000	35.5
\$ 39 2-Fluorobiphenyl	172	6.697	6.697	(0.902)	994913	40.0000	36.3
\$ 60 2,4,6-Tribromophenol	329	8.263	8.263	(1.113)	122695	40.0000	39.9
\$ 81 p-Terphenyl-d14	244	10.730	10.730	(0.902)	1045408	40.0000	33.6
1 N-Methyl-N-nitrosomethylamine	74	2.206	2.206	(0.511)	197496	40.0000	33.9
2 Pyridine	79	2.235	2.235	(0.518)	288729	40.0000	33.8
4 Aniline	66	4.006	4.006	(0.928)	174545	40.0000	32.9
6 Phenol	94	3.958	3.958	(0.917)	419161	40.0000	36.0
7 bis(2-Chloroethyl) ether	63	4.054	4.054	(0.939)	253247	40.0000	31.8
8 2-Chlorophenol	128	4.116	4.116	(0.954)	388177	40.0000	38.4
203 n-Decane	43	4.144	4.144	(0.960)	272627	40.0000	26.2
9 1,3-Dichlorobenzene	146	4.263	4.263	(0.988)	449357	40.0000	37.5
11 1,4-Dichlorobenzene	146	4.330	4.330	(1.003)	468537	40.0000	37.9
13 1,2-Dichlorobenzene	146	4.473	4.473	(1.036)	437570	40.0000	38.1
14 bis(2-Chloroisopropyl)ether	45	4.558	4.558	(1.056)	375310	40.0000	24.1
12 Benzyl alcohol	108	4.430	4.430	(1.026)	199727	40.0000	31.6
15 o-Cresol	107	4.520	4.520	(1.047)	288853	40.0000	35.8
18 m,p-Cresols	107	4.677	4.677	(1.084)	374250	40.0000	36.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.692	4.692	(1.087)	255872	40.0000	34.4
19 Hexachloroethane	117	4.801	4.801	(1.113)	172980	40.0000	37.2
21 Nitrobenzene	77	4.863	4.863	(0.873)	381510	40.0000	34.4
22 Isophorone	82	5.101	5.101	(0.915)	719864	40.0000	35.2
23 2-Nitrophenol	139	5.177	5.177	(0.929)	213504	40.0000	41.9
24 2,4-Dimethylphenol	122	5.206	5.206	(0.934)	326363	40.0000	36.0
25 bis(2-Chloroethoxy)methane	93	5.306	5.306	(0.952)	432259	40.0000	37.7
26 2,4-Dichlorophenol	162	5.420	5.420	(0.973)	333990	40.0000	40.8
27 Benzoic acid	105	5.320	5.320	(0.955)	195553	40.0000	45.0
28 1,2,4-Trichlorobenzene	180	5.506	5.506	(0.988)	408967	40.0000	37.1
30 Naphthalene	128	5.592	5.592	(1.003)	1277609	40.0000	38.8
204 alpha-Terpineol	59	5.596	5.596	(1.004)	282293	40.0000	33.5
31 4-Chloroaniline	127	5.639	5.639	(1.012)	441720	40.0000	40.8
32 Hexachlorobutadiene	225	5.716	5.716	(1.026)	253394	40.0000	37.0
33 4-Chloro-3-methylphenol	107	6.135	6.135	(1.101)	332179	40.0000	37.5
34 2-Methylnaphthalene	142	6.311	6.311	(1.132)	860048	40.0000	39.1
35 1-Methylnaphthalene	142	6.416	6.416	(1.151)	845908	40.0000	39.2
36 Hexachlorocyclopentadiene	237	6.473	6.473	(0.872)	203163	40.0000	35.2
205 2,3-Dichloroaniline	161	6.606	6.606	(0.890)	460976	40.0000	37.5
37 2,4,6-Trichlorophenol	196	6.606	6.606	(0.890)	267977	40.0000	37.4
38 2,4,5-Trichlorophenol	196	6.639	6.639	(0.894)	272706	40.0000	35.8
40 2-Chloronaphthalene	162	6.825	6.825	(0.919)	834690	40.0000	36.4
42 o-Nitroaniline	65	6.930	6.930	(0.933)	210937	40.0000	33.1
41 m-Nitroaniline	138	7.373	7.373	(0.993)	183914	40.0000	37.9
43 Dimethylphthalate	163	7.135	7.135	(0.961)	971440	40.0000	37.2
44 2,6-Dinitrotoluene	165	7.197	7.197	(0.969)	227081	40.0000	38.5
50 2,4-Dinitrotoluene	165	7.625	7.625	(1.027)	294052	40.0000	38.9
45 Acenaphthylene	152	7.273	7.273	(0.979)	1355653	40.0000	35.1
47 Acenaphthene	154	7.458	7.458	(1.004)	836151	40.0000	33.8
48 2,4-Dinitrophenol	184	7.482	7.482	(1.008)	107197	40.0000	50.7
49 Dibenzofuran	168	7.639	7.639	(1.029)	1195969	40.0000	36.8
51 Diethylphthalate	149	7.887	7.887	(1.062)	1014288	40.0000	37.2
52 4-Nitrophenol	139	7.544	7.544	(1.016)	152435	40.0000	48.0
53 Fluorene	166	8.011	8.011	(1.079)	1073211	40.0000	35.7
54 4-Chlorophenylphenylether	204	8.006	8.006	(1.078)	522095	40.0000	36.1
55 2-Methyl-4,6-dinitrophenol	198	8.063	8.063	(0.894)	160983	40.0000	45.7
56 p-Nitroaniline	138	8.025	8.025	(1.081)	168622	40.0000	39.3
133 Diphenylamine	169	8.135	8.135	(0.902)	827251	40.0000	38.0
58 1,2-Diphenylhydrazine	77	8.177	8.177	(0.907)	843542	40.0000	33.0
61 4-Bromophenylphenylether	248	8.535	8.535	(0.947)	314022	40.0000	38.2
63 Hexachlorobenzene	284	8.601	8.601	(0.954)	314467	40.0000	36.8
65 Pentachlorophenol	266	8.806	8.806	(0.977)	168619	40.0000	44.2
206 n-Octadecane	57	8.901	8.901	(0.987)	524408	40.0000	30.7
68 Phenanthrene	178	9.044	9.044	(1.003)	1460804	40.0000	36.3
69 Anthracene	178	9.097	9.097	(1.009)	1474236	40.0000	35.3
72 Di-n-butylphthalate	149	9.644	9.644	(1.070)	1731965	40.0000	39.6
76 Fluoranthene	202	10.320	10.320	(1.145)	1586131	40.0000	36.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	10.568	10.568	(0.888)	1678963	40.0000	31.1
85 Butylbenzylphthalate	149	11.258	11.258	(0.946)	700699	40.0000	37.1
89 Benzo(a)anthracene	228	11.882	11.882	(0.998)	1518027	40.0000	33.3
92 Chrysene	228	11.930	11.930	(1.002)	1411636	40.0000	35.6
93 bis(2-Ethylhexyl)phthalate	149	11.906	11.906	(1.000)	1033149	40.0000	39.1
94 Di-n-octylphthalate	149	12.763	12.763	(0.917)	1518846	40.0000	35.6
95 Benzo(b)fluoranthene	252	13.330	13.330	(0.957)	1329630	40.0000	33.3
96 Benzo(k)fluoranthene	252	13.378	13.378	(0.961)	1373469	40.0000	34.2
97 Benzo(a)pyrene	252	13.835	13.835	(0.994)	1232414	40.0000	36.6
99 Indeno(1,2,3-cd)pyrene	276	15.706	15.706	(1.128)	1077331	40.0000	38.6
100 Dibenzo(a,h)anthracene	278	15.744	15.744	(1.131)	1045164	40.0000	48.5
101 Benzo(ghi)perylene	276	16.173	16.173	(1.161)	1045686	40.0000	45.3
126 m-Dinitrobenzene	168	7.163	7.163	(0.965)	151092	40.0000	40.2
130 2,3,4,6-Tetrachlorophenol	232	7.768	7.768	(1.046)	220649	40.0000	34.2
143 Dinoseb	211	9.006	9.006	(0.999)	239193	40.0000	45.6
173 Carbazole	167	9.268	9.268	(1.028)	1014568	40.0000	34.0
184 p-Benzoquinone	54	3.582	3.582	(0.830)	15629	40.0000	11.3
192 Methoxychlor	227	11.801	11.801	(0.992)	997824	40.0000	40.2
211 p-Toluidine	106	4.730	4.730	(1.096)	385602	40.0000	35.4
210 m-Toluidine	106	4.768	4.768	(1.105)	486257	40.0000	34.2
26 Phthalic anhydride	104	6.368	6.368	(1.143)	135202	40.0000	30.1
179 Dibenzo(a,e)pyrene	302	19.120	19.120	(1.373)	459178	40.0000	50.0
214 1,4-Dinitrobenzene	75	7.082	7.082	(0.954)	136896	40.0000	34.3
215 2-Ethoxyethanol	59	2.001	2.001	(0.464)	168892	40.0000	30.8
216 Methylenebis(2-chloroaniline)	231	11.854	11.854	(0.996)	153327	40.0000	32.8
M 222 Trichlorophenols	196				540683	80.0000	73.2
M 223 Tetrachlorophenols	232				220649	40.0000	34.2
M 224 Benzo(b,k)fluoranthene	252				2703099	80.0000	67.6

Data File: /chem/MSD8.i/s030110.b/s800102.d

Date: 01-MAR-2010 12:28

Client ID: HECACVS

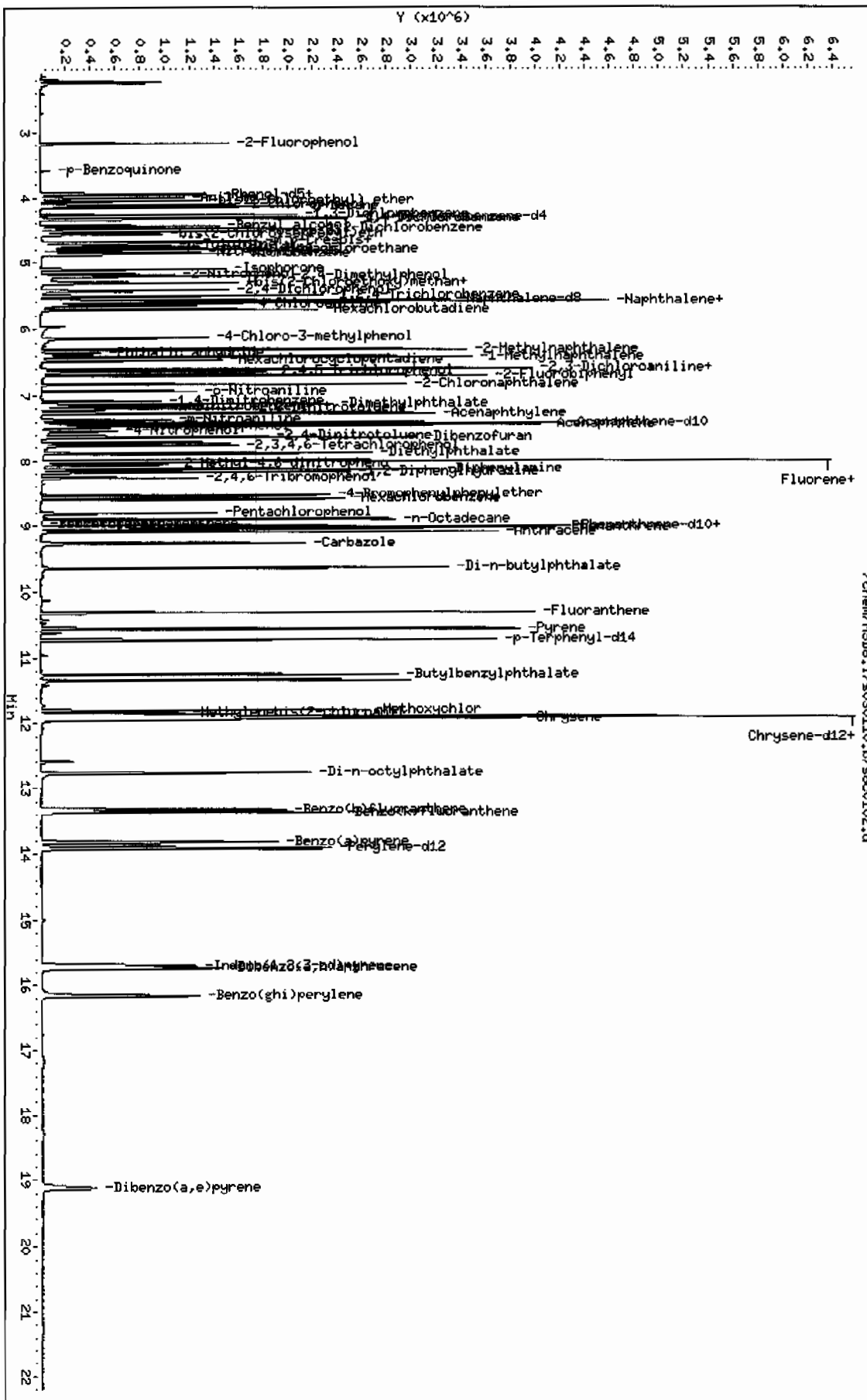
Sample Info: ILMN00215-05.3140 PPH11SMF11.HECACVS

Column phase: J&W DB-5MS

Instrument: MSD8.i

Operator: nag1

Column diameter: 0.20



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 01-MAR-2010 13:03
Lab File ID: s8c0103.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84330	0.68424	0.68424	0.000	-18.86109	60.00000	Averaged
16 Acetophenone	1.20309	1.02416	1.02416	0.000	-14.87237	60.00000	Averaged
189 Caprolactam	0.06655	0.06606	0.06606	0.000	-0.74401	60.00000	Averaged
208 1,1'-Biphenyl	1.22219	1.10301	1.10301	0.000	-9.75159	60.00000	Averaged
207 Atrazine	0.03531	0.03717	0.03717	0.000	5.25421	60.00000	Averaged
77 Benzidine	31.27890	40.00000	0.21776	0.000	-21.80276	60.00000	Linear
90 3,3'-Dichlorobenzidine	0.24780	0.22657	0.22657	0.000	-8.56526	60.00000	Averaged
102 1,4-Dioxane	0.32319	0.28345	0.28345	0.000	-12.29598	60.00000	Averaged
103 Methyl methacrylate	0.16817	0.15888	0.15888	0.000	-5.52207	60.00000	Averaged
104 Ethyl methacrylate	0.67963	0.54686	0.54686	0.000	-19.53495	60.00000	Averaged
105 2-Picoline	1.09294	0.96603	0.96603	0.000	-11.61149	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.43986	0.35783	0.35783	0.000	-18.64992	60.00000	Averaged
107 Methyl methanesulfonate	0.49950	0.41413	0.41413	0.000	-17.09021	60.00000	Averaged
108 N-Nitrosodiethylamine	0.45804	0.39062	0.39062	0.000	-14.72106	60.00000	Averaged
109 Ethyl Methanesulfonate	0.60902	0.50140	0.50140	0.000	-17.67017	60.00000	Averaged
110 Pentachloroethane	0.32092	0.29879	0.29879	0.000	-6.89610	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49059	0.42239	0.42239	0.000	-13.90178	60.00000	Averaged
113 N-Nitrosomorpholine	0.66385	0.49267	0.49267	0.000	-25.78585	60.00000	Averaged
114 o-Toluidine	1.62183	1.41951	1.41951	0.000	-12.47510	60.00000	Averaged
115 N-Nitrosopiperidine	0.12437	0.11536	0.11536	0.000	-7.24780	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.74304	0.52752	0.52752	0.000	-29.00488	60.00000	Averaged
118 2,6-Dichlorophenol	0.20154	0.20346	0.20346	0.000	0.95074	60.00000	Averaged
119 Hexachloropropene	0.12360	0.10972	0.10972	0.000	-11.23054	60.00000	Averaged
120 p-Phenylenediamine	0.19655	0.20029	0.20029	0.000	1.90390	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21161	0.19819	0.19819	0.000	-6.34242	60.00000	Averaged
122 Safrole	0.19334	0.18495	0.18495	0.000	-4.34271	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47582	0.41722	0.41722	0.000	-12.31638	60.00000	Averaged
124 Isosafrole	0.32130	0.28835	0.28835	0.000	-10.25445	60.00000	Averaged
125 1,4-Naphthoquinone	0.29641	0.29182	0.29182	0.000	-1.54918	60.00000	Averaged
127 Pentachlorobenzene	0.43422	0.37449	0.37449	0.000	-13.75559	60.00000	Averaged
128 1-Naphthylamine	0.84230	0.77770	0.77770	0.000	-7.66992	60.00000	Averaged
129 2-Naphthylamine	0.88763	0.81738	0.81738	0.000	-7.91430	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24122	0.22580	0.22580	0.000	-6.39280	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.09499	0.09945	0.09945	0.000	4.69524	60.00000	Averaged
137 Phenacetin	0.21690	0.19905	0.19905	0.000	-8.22626	60.00000	Averaged
138 Diallate	0.20203	0.17527	0.17527	0.000	-13.24876	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 01-MAR-2010 13:03
Lab File ID: s8c0103.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.20071	0.17435	0.17435	0.000	-13.13674	60.00000 Averaged
213 Trans Diallate	0.23769	0.20620	0.20620	0.000	-13.24876	60.00000 Averaged
140 4-Aminobiphenyl	0.51727	0.47900	0.47900	0.000	-7.39883	60.00000 Averaged
141 Pentachloronitrobenzene	0.07936	0.06924	0.06924	0.000	-12.75826	60.00000 Averaged
142 Pronamide	0.25230	0.25129	0.25129	0.000	-0.40090	60.00000 Averaged
146 4-Nitroquinoline-1-oxide	0.01907	0.01858	0.01858	0.000	-2.55943	60.00000 Averaged
147 Methapyrilene	0.29186	0.24208	0.24208	0.000	-17.05484	60.00000 Averaged
148 Isodrin	0.10718	0.09950	0.09950	0.000	-7.16539	60.00000 Averaged
149 Aramite	0.03388	0.03439	0.03439	0.000	1.51159	60.00000 Averaged
150 Kepone	0.07795	0.07695	0.07695	0.000	-1.27960	60.00000 Averaged
151 p-(Dimethylamino)azobenzene	0.25808	0.23816	0.23816	0.000	-7.72021	60.00000 Averaged
152 Chlorobenzilate	0.26271	0.25652	0.25652	0.000	-2.35539	60.00000 Averaged
153 3,3'-Dimethylbenzidine	0.45535	0.40331	0.40331	0.000	-11.42822	60.00000 Averaged
155 2-Acetylaminofluorene	40.67251	40.00000	0.22995	0.000	1.68127	60.00000 Linear
157 7,12Dimethylbenz(a)anthracene	0.51909	0.46479	0.46479	0.000	-10.46050	60.00000 Averaged
158 3-Methylcholanthrene	0.36780	0.35613	0.35613	0.000	-3.17543	60.00000 Averaged

Data File: /chem/MSD8.i/s030110.b/s8c0103.d
 Report Date: 02-Mar-2010 07:05

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GEL Laboratories LLC

Data file : /chem/MSD8.i/s030110.b/s8c0103.d
 Lab Smp Id: WBN100218-03.5 Client Smp ID: AP12CVS
 Inj Date : 01-MAR-2010 13:03
 Operator : nagl Inst ID: MSD8.i
 Smp Info : |WBN100218-03.5|40 PPM|1|SVMF|1|AP12CVS
 Misc Info : |MSD8270|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Meth Date : 02-Mar-2010 07:05 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AP12.sub
 Target Version: 3.50
 Processing Host: hpc1p1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.311	4.311	(1.000)	410864	40.0000	
* 29 Naphthalene-d8	136	5.568	5.568	(1.000)	1532615	40.0000	
* 46 Acenaphthene-d10	164	7.420	7.420	(1.000)	940630	40.0000	
* 67 Phenanthrene-d10	188	9.015	9.015	(1.000)	1677188	40.0000	
* 91 Chrysene-d12	240	11.892	11.892	(1.000)	1504027	40.0000	
* 98 Perylene-d12	264	13.916	13.916	(1.000)	1161513	40.0000	
209 Benzaldehyde	77	3.915	3.915	(0.908)	281131	40.0000	32.4
16 Acetophenone	105	4.687	4.687	(1.087)	420790	40.0000	34.0
189 Caprolactam	113	5.996	5.996	(1.077)	101243	40.0000	39.7
208 1,1'-Biphenyl	154	6.801	6.801	(0.917)	1037524	40.0000	36.1
207 Atrazine	173	8.711	8.711	(0.966)	62341	40.0000	42.1
77 Benzidine	184	10.458	10.458	(0.879)	327521	40.0000	31.3
90 3,3'-Dichlorobenzidine	252	11.844	11.844	(0.996)	340774	40.0000	36.6
102 1,4-Dioxane	88	2.001	2.001	(0.464)	116460	40.0000	35.1
103 Methyl methacrylate	100	2.006	2.006	(0.465)	65278	40.0000	37.8
104 Ethyl methacrylate	69	2.506	2.506	(0.581)	224686	40.0000	32.2
105 2-Picoline	93	2.744	2.744	(0.637)	396909	40.0000	35.4
106 N-Nitrosomethylethylamine	88	2.815	2.815	(0.653)	147018	40.0000	32.5
107 Methyl methanesulfonate	80	3.044	3.044	(0.706)	170153	40.0000	33.2
108 N-Nitrosodiethylamine	102	3.363	3.363	(0.780)	160490	40.0000	34.1
109 Ethyl Methanesulfonate	79	3.601	3.601	(0.835)	206009	40.0000	32.9
110 Pentachloroethane	167	4.053	4.053	(0.940)	122761	40.0000	37.2
111 N-Nitrosopyrrolidine	100	4.673	4.673	(1.084)	173543	40.0000	34.4(Q)
113 N-Nitrosomorpholine	56	4.706	4.706	(1.092)	202421	40.0000	29.7
114 o-Toluidine	106	4.725	4.725	(1.096)	583224	40.0000	35.0
115 N-Nitrosopiperidine	114	5.006	5.006	(0.899)	176795	40.0000	37.1

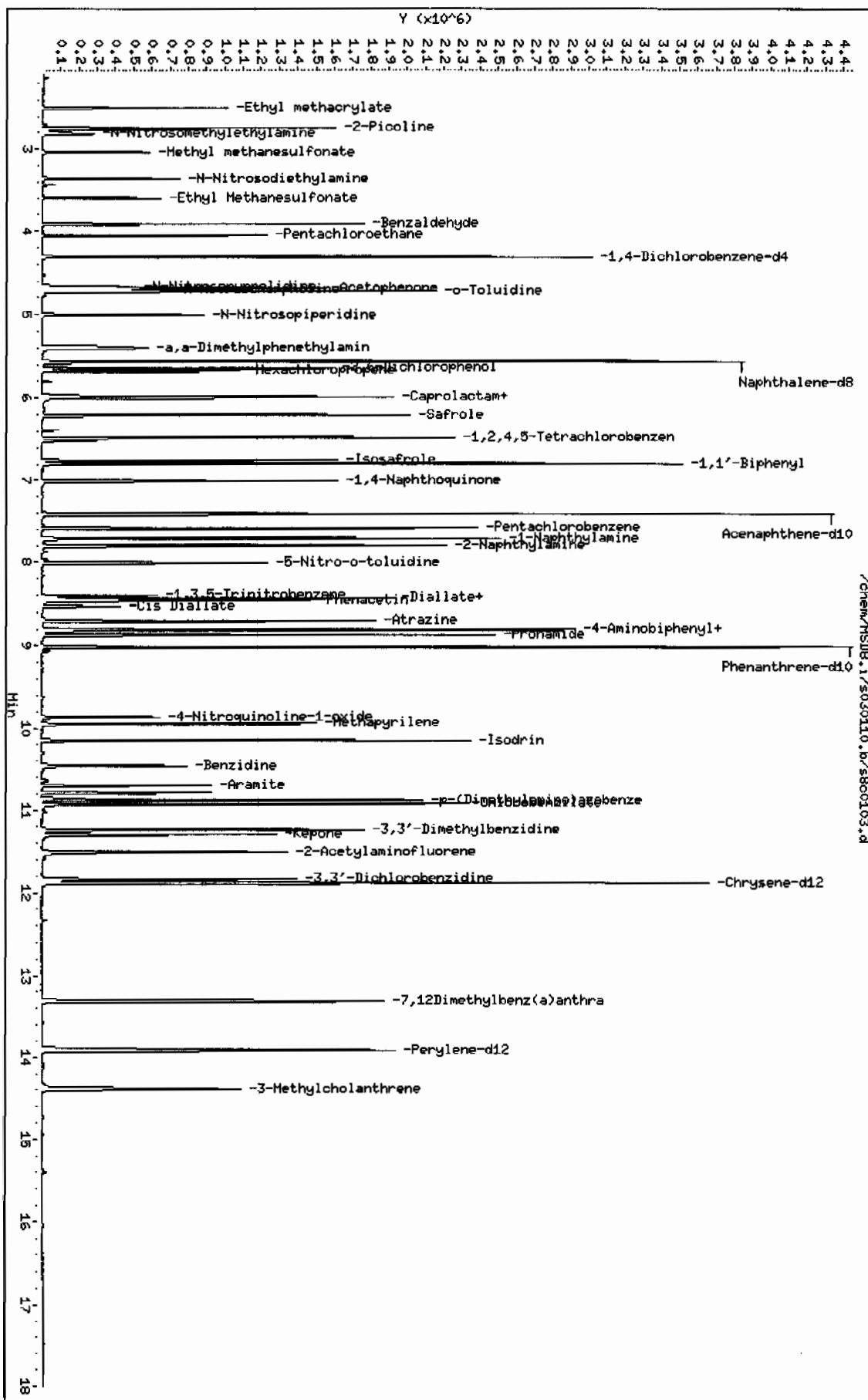
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	=====	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	5.406	5.406	(0.971)	808484	40.0000	28.4
118 2,6-Dichlorophenol	162	5.649	5.649	(1.015)	311823	40.0000	40.4
119 Hexachloropropene	213	5.677	5.677	(1.020)	168160	40.0000	35.5
120 p-Phenylenediamine	108	6.006	6.006	(1.079)	306974	40.0000	40.8
121 N-Nitrosodi-n-butylamine	84	5.987	5.987	(1.075)	303745	40.0000	37.5
122 Safrole	162	6.211	6.211	(1.115)	283451	40.0000	38.3
123 1,2,4,5-Tetrachlorobenzene	216	6.487	6.487	(0.874)	392445	40.0000	35.1
124 Isosafrole	162	6.763	6.763	(0.911)	271234	40.0000	35.9
125 1,4-Naphthoquinone	158	7.011	7.011	(0.945)	274497	40.0000	39.4
127 Pentachlorobenzene	250	7.592	7.592	(1.023)	352257	40.0000	34.5
128 1-Naphthylamine	143	7.720	7.720	(1.040)	731526	40.0000	36.9
129 2-Naphthylamine	143	7.801	7.801	(1.051)	768853	40.0000	36.8
131 5-Nitro-o-toluidine	152	8.011	8.011	(1.080)	212393	40.0000	37.4
136 1,3,5-Trinitrobenzene	75	8.406	8.406	(0.932)	166802	40.0000	41.9
137 Phenacetin	108	8.468	8.468	(0.939)	333850	40.0000	36.7 (Q)
138 Diallate	86	8.439	8.439	(0.936)	293955	40.0000	34.7
212 Cis Diallate	86	8.534	8.534	(0.947)	43862	6.00000	5.2
213 Trans Diallate	86	8.439	8.439	(0.936)	293955	34.0000	29.5
140 4-Aminobiphenyl	169	8.811	8.811	(0.977)	803370	40.0000	37.0
141 Pentachloronitrobenzene	237	8.820	8.820	(0.978)	116124	40.0000	34.9 (Q)
142 Pronamide	173	8.873	8.873	(0.984)	421459	40.0000	39.8
146 4-Nitroquinoline-1-oxide	101	9.863	9.863	(1.094)	31162	40.0000	39.0
147 Methapyrilene	58	9.949	9.949	(1.104)	406018	40.0000	33.2
148 Isodrin	193	10.158	10.158	(1.127)	166878	40.0000	37.1
149 Aramite	185	10.706	10.706	(1.188)	57681	40.0000	40.6
150 Kepone	272	11.296	11.296	(1.253)	129060	40.0000	39.5
151 p-(Dimethylamino)azobenzene	120	10.882	10.882	(0.915)	358192	40.0000	36.9
152 Chlorobenzilate	251	10.930	10.930	(0.919)	385810	40.0000	39.0
153 3,3'-Dimethylbenzidine	212	11.239	11.239	(0.945)	606595	40.0000	35.4
155 2-Acetylaminofluorene	181	11.511	11.511	(0.968)	345852	40.0000	40.7
157 7,12Dimethylbenz(a)anthracene	256	13.316	13.316	(0.957)	539861	40.0000	35.8
158 3-Methylcholanthrene	268	14.392	14.392	(1.034)	413644	40.0000	38.7 (Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSDB.i/s030110.b/s030103.d
 Date: 01-MAR-2010 13:03
 Client ID: AP12CVS
 Sample Info: IWBNI00218-03.5140 PPH11SVH111AP12CVS
 Column phase: JMW DB-SMS

Instrument: MSDB.i
 Operator: nag1
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-MAR-2010 09:35
Lab File ID: s8c0202.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.94435	0.91264	0.91264	0.000	-3.35756	60.00000	Averaged
5 Phenol-d5	1.17771	1.15545	1.15545	0.000	-1.88989	60.00000	Averaged
20 Nitrobenzene-d5	0.28435	0.26603	0.26603	0.000	-6.44002	60.00000	Averaged
39 2-Fluorobiphenyl	1.17740	1.13667	1.13667	0.000	-3.45871	60.00000	Averaged
60 2,4,6-Tribromophenol	0.13223	0.12345	0.12345	0.000	-6.63417	60.00000	Averaged
81 p-Terphenyl-d14	0.72015	0.64995	0.64995	0.000	-9.74774	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.60923	0.53197	0.53197	0.000	-12.68093	60.00000	Averaged
2 Pyridine	0.89373	0.78078	0.78078	0.000	-12.63815	60.00000	Averaged
4 Aniline	0.55542	0.47406	0.47406	0.000	-14.64941	60.00000	Averaged
6 Phenol	1.21617	1.13712	1.13712	0.001	-6.50063	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.83144	0.67757	0.67757	0.000	-18.50666	60.00000	Averaged
8 2-Chlorophenol	1.05605	1.04815	1.04815	0.000	-0.74843	60.00000	Averaged
203 n-Decane	1.08949	0.75177	0.75177	0.000	-30.99861	60.00000	Averaged
9 1,3-Dichlorobenzene	1.25240	1.24263	1.24263	0.000	-0.77970	60.00000	Averaged
11 1,4-Dichlorobenzene	1.29215	1.27464	1.27464	0.001	-1.35581	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.20194	1.19291	1.19291	0.000	-0.75080	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.63019	1.02754	1.02754	0.000	-36.96818	60.00000	Averaged
12 Benzyl alcohol	0.66057	0.50129	0.50129	0.000	-24.11165	60.00000	Averaged
15 o-Cresol	0.84463	0.77917	0.77917	0.000	-7.75029	60.00000	Averaged
18 m,p-Cresols	1.06890	0.98287	0.98287	0.000	-8.04854	60.00000	Averaged
17 N-Nitrosodipropylamine	0.77788	0.69279	0.69279	0.050	-10.93846	60.00000	Averaged spcc
19 Hexachloroethane	0.48694	0.46293	0.46293	0.000	-4.93121	60.00000	Averaged
21 Nitrobenzene	0.29331	0.26246	0.26246	0.000	-10.51730	60.00000	Averaged
22 Isophorone	0.53999	0.49522	0.49522	0.000	-8.29099	60.00000	Averaged
23 2-Nitrophenol	0.13462	0.14126	0.14126	0.001	4.93127	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.23932	0.22327	0.22327	0.000	-6.70846	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.30282	0.29866	0.29866	0.000	-1.37450	60.00000	Averaged
26 2,4-Dichlorophenol	0.21654	0.22191	0.22191	0.001	2.47894	20.00000	Averaged ccc
27 Benzoic acid	33.12304	40.00000	0.07811	0.000	-17.19240	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.29118	0.28600	0.28600	0.000	-1.77863	60.00000	Averaged
30 Naphthalene	40.44133	40.00000	0.88218	0.000	1.10333	60.00000	Linear
204 alpha-Terpineol	0.22259	0.19272	0.19272	0.000	-13.41598	60.00000	Averaged
31 4-Chloroaniline	0.28585	0.30345	0.30345	0.000	6.15693	60.00000	Averaged
32 Hexachlorobutadiene	0.18110	0.17185	0.17185	0.001	-5.10810	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23429	0.19752	0.19752	0.000	-15.69204	20.00000	Averaged ccc
34 2-Methylnaphthalene	40.22842	40.00000	0.58493	0.000	0.57104	60.00000	Linear

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-MAR-2010 09:35
Lab File ID: s8c0202.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	39.87766	40.00000	0.56834	0.000	-0.30584	60.00000	Linear
36 Hexachlorocyclopentadiene	0.24827	0.15148	0.15148	0.050	-38.98705	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.52803	0.52387	0.52387	0.000	-0.78902	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30819	0.29910	0.29910	0.001	-2.94880	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.32711	0.29381	0.29381	0.000	-10.17801	60.00000	Averaged
40 2-Chloronaphthalene	38.65946	40.00000	0.95472	0.000	-3.35135	60.00000	Linear
42 o-Nitroaniline	0.27392	0.23730	0.23730	0.000	-13.36972	60.00000	Averaged
41 m-Nitroaniline	0.20877	0.21048	0.21048	0.000	0.82056	60.00000	Averaged
43 Dimethylphthalate	1.12088	1.10575	1.10575	0.000	-1.35021	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25341	0.25411	0.25411	0.000	0.27674	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32492	0.32284	0.32284	0.000	-0.64029	60.00000	Averaged
45 Acenaphthylene	1.66068	1.52380	1.52380	0.000	-8.24271	60.00000	Averaged
47 Acenaphthene	1.06294	0.95339	0.95339	0.001	-10.30615	20.00000	Averaged ccc
48 2,4-Dinitrophenol	33.38384	40.00000	0.06022	0.050	-16.54041	60.00000	Linear spcc
49 Dibenzofuran	1.39464	1.34616	1.34616	0.000	-3.47648	60.00000	Averaged
51 Diethylphthalate	1.17311	1.15175	1.15175	0.000	-1.82093	60.00000	Averaged
52 4-Nitrophenol	0.13654	0.14268	0.14268	0.050	4.49787	60.00000	Averaged spcc
53 Fluorene	1.29100	1.19956	1.19956	0.000	-7.08310	60.00000	Averaged
54 4-Chlorophenylphenylether	0.62173	0.58543	0.58543	0.000	-5.83934	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	30.25490	40.00000	0.05643	0.000	-24.36275	60.00000	Linear
56 p-Nitroaniline	0.18448	0.18638	0.18638	0.000	1.03178	60.00000	Averaged
133 Diphenylamine	0.50546	0.52318	0.52318	0.001	3.50524	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.59375	0.53451	0.53451	0.000	-9.97609	60.00000	Averaged
61 4-Bromophenylphenylether	0.19114	0.19708	0.19708	0.000	3.10689	60.00000	Averaged
63 Hexachlorobenzene	0.19866	0.19425	0.19425	0.000	-2.22216	60.00000	Averaged
65 Pentachlorophenol	0.08849	0.07173	0.07173	0.001	-18.94016	20.00000	Averaged ccc
206 n-Octadecane	0.39703	0.33943	0.33943	0.000	-14.50673	60.00000	Averaged
68 Phenanthrene	38.47965	40.00000	0.90256	0.000	-3.80088	60.00000	Linear
69 Anthracene	0.97083	0.90183	0.90183	0.000	-7.10785	60.00000	Averaged
72 Di-n-butylphthalate	1.01476	1.05449	1.05449	0.000	3.91551	60.00000	Averaged
76 Fluoranthene	1.01786	0.92844	0.92844	0.001	-8.78523	20.00000	Averaged ccc
79 Pyrene	1.24889	1.04410	1.04410	0.000	-16.39762	60.00000	Averaged
85 Butylbenzylphthalate	0.43672	0.43294	0.43294	0.000	-0.86519	60.00000	Averaged
89 Benzo(a)anthracene	1.05261	0.93422	0.93422	0.000	-11.24739	60.00000	Averaged
92 Chrysene	37.58835	40.00000	0.86270	0.000	-6.02912	60.00000	Linear
93 bis(2-Ethylhexyl)phthalate	0.61117	0.62582	0.62582	0.000	2.39615	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-MAR-2010 09:35
 Lab File ID: s8c0202.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
 Analysis Type: Init. Cal. Times: 12:55 01:19
 Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
 Method: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN		MAX	
			RRF40	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	37.75897	40.00000	1.15495	0.001	-5.60257	20.00000	Linear
95 Benzo(b)fluoranthene	1.13405	1.02815	1.02815	0.000	-9.33769	60.00000	Averaged
96 Benzo(k)fluoranthene	1.14008	1.04061	1.04061	0.000	-8.72486	60.00000	Averaged
97 Benzo(a)pyrene	0.95647	0.93064	0.93064	0.001	-2.69996	20.00000	Averaged
99 Indeno(1,2,3-cd)pyrene	0.79303	0.90743	0.90743	0.000	14.42614	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.61288	0.73092	0.73092	0.000	19.25955	60.00000	Averaged
101 Benzo(ghi)perylene	0.65613	0.73362	0.73362	0.000	11.81131	60.00000	Averaged
126 m-Dinitrobenzene	0.16162	0.16674	0.16674	0.000	3.16916	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.27739	0.22425	0.22425	0.000	-19.15664	60.00000	Averaged
143 Dinoseb	31.14299	40.00000	0.08453	0.000	-22.14251	60.00000	Linear
173 Carbazole	0.69337	0.63446	0.63446	0.000	-8.49544	60.00000	Averaged
184 p-Benzoquinone	22.05484	40.00000	0.09498	0.000	-44.86291	60.00000	Linear
192 Methoxychlor	0.57371	0.57415	0.57415	0.000	0.07647	60.00000	Averaged
211 p-Toluidine	1.14055	1.10349	1.10349	0.000	-3.24899	60.00000	Averaged
210 m-Toluidine	1.48620	1.23780	1.23780	0.000	-16.71369	60.00000	Averaged
26 Phthalic anhydride	21.75926	40.00000	0.05936	0.000	-45.60186	60.00000	Linear
179 Dibenzo(a,e)pyrene	0.26112	0.30510	0.30510	0.000	16.84167	60.00000	Averaged
214 1,4-Dinitrobenzene	0.17136	0.14572	0.14572	0.000	-14.96638	60.00000	Averaged
215 2-Ethoxyethanol	0.57374	0.43962	0.43962	0.000	-23.37558	60.00000	Averaged
216 Methylenebis(2-chloroanilin	33.60863	40.00000	0.09160	0.000	-15.97842	60.00000	Linear
M 222 Trichlorophenols	0.31765	0.29646	0.29646	0.000	-6.67106	60.00000	Averaged
M 223 Tetrachlorophenols	0.27739	0.22425	0.22425	0.000	-19.15664	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	1.13706	1.03438	1.03438	0.000	-9.03046	60.00000	Averaged

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0202.d
Lab Smp Id: WBN100225-05.5 Client Smp ID: MEGACVS
Inj Date : 02-MAR-2010 09:35
Operator : nag1 Inst ID: MSD8.i
Smp Info : |WBN100225-05.5|40 PPM|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 20:07 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGAICARE.sub
Target Version: 3.50
Processing Host: hpc1p1

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)
							ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	4.401	4.401	(1.000)	378003	40.0000	
* 29 Naphthalene-d8	136	5.663	5.663	(1.000)	1472940	40.0000	
* 46 Acenaphthene-d10	164	7.520	7.520	(1.000)	879992	40.0000	
* 67 Phenanthrene-d10	188	9.115	9.115	(1.000)	1554554	40.0000	
* 91 Chrysene-d12	240	12.011	12.011	(1.000)	1456663	40.0000	
* 98 Perylene-d12	264	14.092	14.092	(1.000)	1135773	40.0000	
\$ 3 2-Fluorophenol	112	3.253	3.253	(0.739)	344980	40.0000	38.6
\$ 5 Phenol-d5	99	4.025	4.025	(0.915)	436763	40.0000	39.2
\$ 20 Nitrobenzene-d5	82	4.934	4.934	(0.871)	391852	40.0000	37.4
\$ 39 2-Fluorobiphenyl	172	6.787	6.787	(0.902)	1000263	40.0000	38.6
\$ 60 2,4,6-Tribromophenol	329	8.363	8.363	(1.112)	108638	40.0000	37.3
\$ 81 p-Terphenyl-d14	244	10.830	10.830	(0.902)	946756	40.0000	36.1
1 N-Methyl-N-nitrosomethylamine	74	2.296	2.296	(0.522)	201088	40.0000	34.9
2 Pyridine	79	2.330	2.330	(0.529)	295136	40.0000	34.9
4 Aniline	66	4.096	4.096	(0.931)	179195	40.0000	34.1
6 Phenol	94	4.039	4.039	(0.918)	429833	40.0000	37.4
7 bis(2-Chloroethyl) ether	63	4.139	4.139	(0.940)	256123	40.0000	32.6
8 2-Chlorophenol	128	4.206	4.206	(0.956)	396203	40.0000	39.7
203 n-Decane	43	4.230	4.230	(0.961)	284170	40.0000	27.6
9 1,3-Dichlorobenzene	146	4.353	4.353	(0.989)	469719	40.0000	39.7
11 1,4-Dichlorobenzene	146	4.420	4.420	(1.004)	481816	40.0000	39.4
13 1,2-Dichlorobenzene	146	4.563	4.563	(1.037)	450925	40.0000	39.7
14 bis(2-Chloroisopropyl) ether	45	4.644	4.644	(1.055)	388413	40.0000	25.2
12 Benzyl alcohol	108	4.515	4.515	(1.026)	189491	40.0000	30.4
15 o-Cresol	107	4.606	4.606	(1.047)	294527	40.0000	36.9
18 m,p-Cresols	107	4.763	4.763	(1.082)	371526	40.0000	36.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.787	4.787	(1.088)	261878	40.0000	35.6
19 Hexachloroethane	117	4.892	4.892	(1.111)	174989	40.0000	38.0
21 Nitrobenzene	77	4.953	4.953	(0.875)	386587	40.0000	35.8
22 Isophorone	82	5.192	5.192	(0.917)	729434	40.0000	36.7
23 2-Nitrophenol	139	5.268	5.268	(0.930)	208062	40.0000	42.0
24 2,4-Dimethylphenol	122	5.292	5.292	(0.934)	328860	40.0000	37.3
25 bis(2-Chloroethoxy)methane	93	5.396	5.396	(0.953)	439904	40.0000	39.4
26 2,4-Dichlorophenol	162	5.511	5.511	(0.973)	326860	40.0000	41.0
27 Benzoic acid	105	5.387	5.387	(0.951)	115051	40.0000	33.1
28 1,2,4-Trichlorobenzene	180	5.601	5.601	(0.989)	421264	40.0000	39.3
30 Naphthalene	128	5.687	5.687	(1.004)	1299399	40.0000	40.4
204 alpha-Terpineol	59	5.687	5.687	(1.004)	283870	40.0000	34.6
31 4-Chloroaniline	127	5.730	5.730	(1.012)	446968	40.0000	42.5
32 Hexachlorobutadiene	225	5.806	5.806	(1.025)	253118	40.0000	38.0
33 4-Chloro-3-methylphenol	107	6.220	6.220	(1.098)	290940	40.0000	33.7
34 2-Methylnaphthalene	142	6.406	6.406	(1.131)	861568	40.0000	40.2
35 1-Methylnaphthalene	142	6.511	6.511	(1.150)	837136	40.0000	39.9
36 Hexachlorocyclopentadiene	237	6.568	6.568	(0.873)	133297	40.0000	24.4
205 2,3-Dichloroaniline	161	6.696	6.696	(0.890)	460999	40.0000	39.7
37 2,4,6-Trichlorophenol	196	6.696	6.696	(0.890)	263204	40.0000	38.8
38 2,4,5-Trichlorophenol	196	6.730	6.730	(0.895)	258554	40.0000	35.9
40 2-Chloronaphthalene	162	6.920	6.920	(0.920)	840142	40.0000	38.6
42 o-Nitroaniline	65	7.025	7.025	(0.934)	208821	40.0000	34.6
41 m-Nitroaniline	138	7.468	7.468	(0.993)	185224	40.0000	40.3
43 Dimethylphthalate	163	7.225	7.225	(0.961)	973047	40.0000	39.4
44 2,6-Dinitrotoluene	165	7.287	7.287	(0.969)	223616	40.0000	40.1
50 2,4-Dinitrotoluene	165	7.720	7.720	(1.027)	284096	40.0000	39.7
45 Acenaphthylene	152	7.368	7.368	(0.980)	1340931	40.0000	36.7
47 Acenaphthene	154	7.553	7.553	(1.004)	838979	40.0000	35.9
48 2,4-Dinitrophenol	184	7.573	7.573	(1.007)	52995	40.0000	33.4
49 Dibenzofuran	168	7.734	7.734	(1.028)	1184609	40.0000	38.6
51 Diethylphthalate	149	7.977	7.977	(1.061)	1013532	40.0000	39.3
52 4-Nitrophenol	139	7.630	7.630	(1.015)	125555	40.0000	41.8
53 Fluorene	166	8.106	8.106	(1.078)	1055599	40.0000	37.2
54 4-Chlorophenylphenylether	204	8.101	8.101	(1.077)	515172	40.0000	37.7
55 2-Methyl-4,6-dinitrophenol	198	8.153	8.153	(0.894)	87730	40.0000	30.2
56 p-Nitroaniline	138	8.120	8.120	(1.080)	164013	40.0000	40.4
133 Diphenylamine	169	8.230	8.230	(0.903)	813307	40.0000	41.4
58 1,2-Diphenylhydrazine	77	8.273	8.273	(0.908)	830930	40.0000	36.0
61 4-Bromophenylphenylether	248	8.630	8.630	(0.947)	306365	40.0000	41.2
63 Hexachlorobenzene	284	8.696	8.696	(0.954)	301971	40.0000	39.1
65 Pentachlorophenol	266	8.901	8.901	(0.976)	111510	40.0000	32.4
206 n-Octadecane	57	8.987	8.987	(0.986)	527665	40.0000	34.2
68 Phenanthrene	178	9.139	9.139	(1.003)	1403081	40.0000	38.5
69 Anthracene	178	9.196	9.196	(1.009)	1401941	40.0000	37.2
72 Di-n-butylphthalate	149	9.734	9.734	(1.068)	1639266	40.0000	41.6
76 Fluoranthene	202	10.420	10.420	(1.143)	1443306	40.0000	36.5

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	10.668	10.668	(0.888)	1520907	40.0000	33.4
85 Butylbenzylphthalate	149	11.349	11.349	(0.945)	630650	40.0000	39.6
89 Benzo(a)anthracene	228	11.996	11.996	(0.999)	1360843	40.0000	35.5
92 Chrysene	228	12.044	12.044	(1.003)	1256670	40.0000	37.6
93 bis(2-Ethylhexyl)phthalate	149	12.011	12.011	(1.000)	911602	40.0000	41.0
94 Di-n-octylphthalate	149	12.892	12.892	(0.915)	1311764	40.0000	37.8
95 Benzo(b)fluoranthene	252	13.482	13.482	(0.957)	1167747	40.0000	36.3
96 Benzo(k)fluoranthene	252	13.530	13.530	(0.960)	1181896	40.0000	36.5
97 Benzo(a)pyrene	252	13.996	13.996	(0.993)	1056998	40.0000	38.9
99 Indeno(1,2,3-cd)pyrene	276	15.901	15.901	(1.128)	1030634	40.0000	45.8
100 Dibenzo(a,h)anthracene	278	15.944	15.944	(1.131)	830158	40.0000	47.7
101 Benzo(ghi)perylene	276	16.377	16.377	(1.162)	833230	40.0000	44.7
126 m-Dinitrobenzene	168	7.258	7.258	(0.965)	146729	40.0000	41.3
130 2,3,4,6-Tetrachlorophenol	232	7.863	7.863	(1.046)	197339	40.0000	32.3
143 Dinoseb	211	9.096	9.096	(0.998)	131403	40.0000	31.1
173 Carbazole	167	9.363	9.363	(1.027)	986305	40.0000	36.6
184 p-Benzoquinone	54	3.668	3.668	(0.833)	35904	40.0000	22.0
192 Methoxychlor	227	11.906	11.906	(0.991)	836338	40.0000	40.0
211 p-Toluidine	106	4.820	4.820	(1.095)	417124	40.0000	38.7
210 m-Toluidine	106	4.853	4.853	(1.103)	467893	40.0000	33.3
26 Phthalic anhydride	104	6.463	6.463	(1.141)	87428	40.0000	21.8
179 Dibenzo(a,e)pyrene	302	19.425	19.425	(1.378)	346524	40.0000	46.7
214 1,4-Dinitrobenzene	75	7.173	7.173	(0.954)	128230	40.0000	34.0
215 2-Ethoxyethanol	59	2.096	2.096	(0.476)	166179	40.0000	30.6
216 Methylenebis(2-chloroaniline)	231	11.963	11.963	(0.996)	133426	40.0000	33.6
M 222 Trichlorophenols	196				521758	80.0000	74.7
M 223 Tetrachlorophenols	232				197339	40.0000	32.3
M 224 Benzo(b,k)fluoranthene	252				2349643	80.0000	72.8

Data File: /chem/MSDB.i/s030210.b/s80202.d

Date : 02-MAR-2010 09:35

Client ID: HECACVS

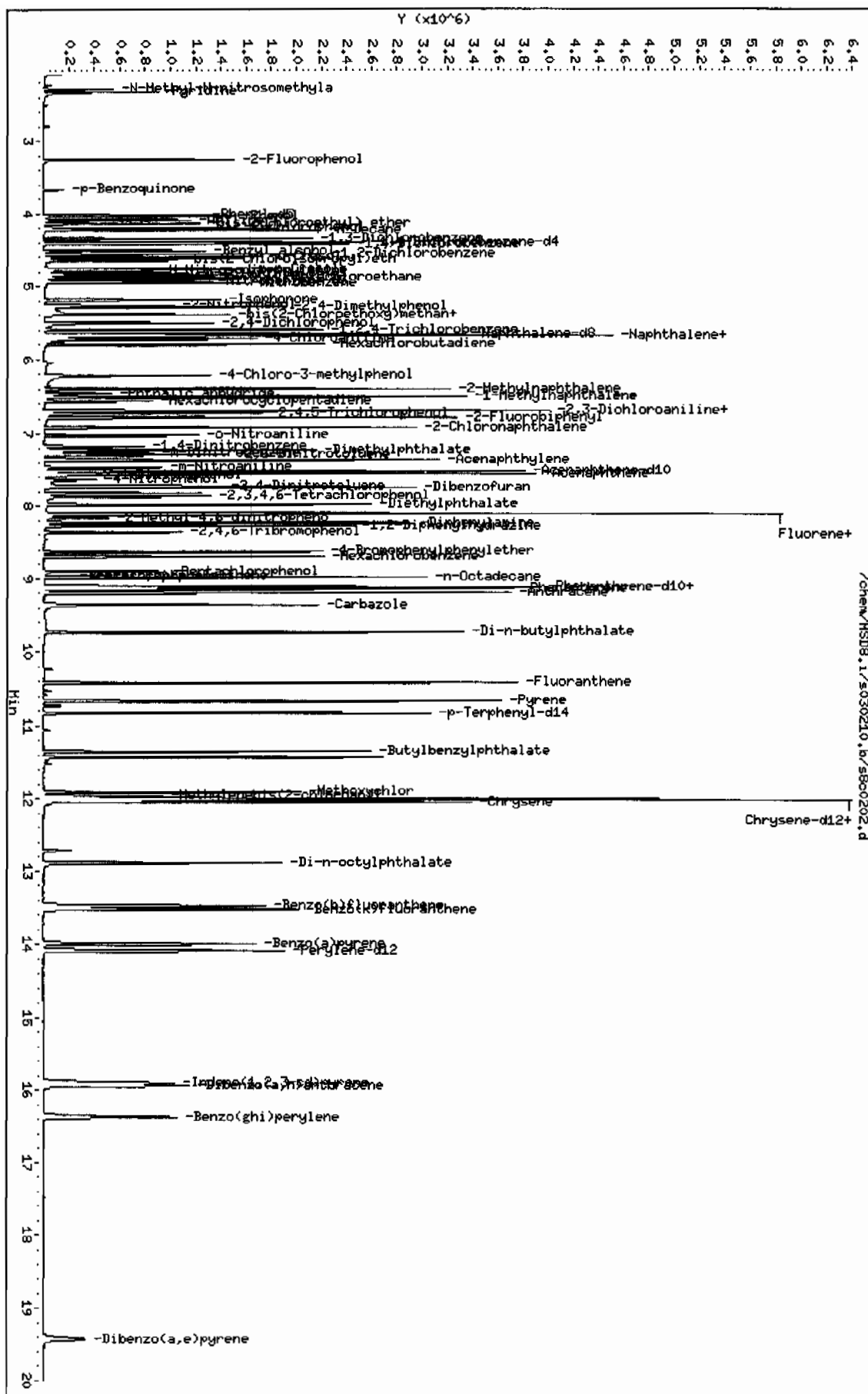
Sample Info: IWBH400225-05.5140 PPH11SVHF11.MECACVS

Column phase: J&W DB-SHS

Instrument: MSD8.1

Operator: nag1

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-MAR-2010 10:07
Lab File ID: s8c0203.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84330	0.69269	0.69269	0.000	-17.85920	60.00000	Averaged
16 Acetophenone	1.20309	1.06184	1.06184	0.000	-11.74047	60.00000	Averaged
189 Caprolactam	0.06655	0.06815	0.06815	0.000	2.39951	60.00000	Averaged
208 1,1'-Biphenyl	1.22219	1.17289	1.17289	0.000	-4.03438	60.00000	Averaged
207 Atrazine	0.03531	0.03738	0.03738	0.000	5.83621	60.00000	Averaged
77 Benzidine	41.60484	40.00000	0.31520	0.000	4.01209	60.00000	Linear
90 3,3'-Dichlorobenzidine	0.24780	0.25717	0.25717	0.000	3.77987	60.00000	Averaged
102 1,4-Dioxane	0.32319	0.28743	0.28743	0.000	-11.06503	60.00000	Averaged
103 Methyl methacrylate	0.16817	0.16212	0.16212	0.000	-3.59272	60.00000	Averaged
104 Ethyl methacrylate	0.67963	0.55454	0.55454	0.000	-18.40574	60.00000	Averaged
105 2-Picoline	1.09294	0.99613	0.99613	0.000	-8.85796	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.43986	0.37311	0.37311	0.000	-15.17415	60.00000	Averaged
107 Methyl methanesulfonate	0.49950	0.40052	0.40052	0.000	-19.81486	60.00000	Averaged
108 N-Nitrosodiethylamine	0.45804	0.40772	0.40772	0.000	-10.98743	60.00000	Averaged
109 Ethyl Methanesulfonate	0.60902	0.50402	0.50402	0.000	-17.24019	60.00000	Averaged
110 Pentachloroethane	0.32092	0.29981	0.29981	0.000	-6.57681	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49059	0.44453	0.44453	0.000	-9.38845	60.00000	Averaged
113 N-Nitrosomorpholine	0.66385	0.51021	0.51021	0.000	-23.14450	60.00000	Averaged
114 o-Toluidine	1.62183	1.46823	1.46823	0.000	-9.47059	60.00000	Averaged
115 N-Nitrosopiperidine	0.12437	0.11867	0.11867	0.000	-4.58529	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.74304	0.55304	0.55304	0.000	-25.57082	60.00000	Averaged
118 2,6-Dichlorophenol	0.20154	0.20289	0.20289	0.000	0.66754	60.00000	Averaged
119 Hexachloropropene	0.12360	0.10783	0.10783	0.000	-12.75796	60.00000	Averaged
120 p-Phenylenediamine	0.19655	0.22150	0.22150	0.000	12.69281	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21161	0.20235	0.20235	0.000	-4.37366	60.00000	Averaged
122 Safrole	0.19334	0.18940	0.18940	0.000	-2.03877	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47582	0.44000	0.44000	0.000	-7.52799	60.00000	Averaged
124 Isosafrole	0.32130	0.30931	0.30931	0.000	-3.73243	60.00000	Averaged
125 1,4-Naphthoquinone	0.29641	0.30523	0.30523	0.000	2.97429	60.00000	Averaged
127 Pentachlorobenzene	0.43422	0.39046	0.39046	0.000	-10.07789	60.00000	Averaged
128 1-Naphthylamine	0.84230	0.84558	0.84558	0.000	0.38923	60.00000	Averaged
129 2-Naphthylamine	0.88763	0.90599	0.90599	0.000	2.06837	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24122	0.25391	0.25391	0.000	5.26269	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.09499	0.08952	0.08952	0.000	-5.75728	60.00000	Averaged
137 Phenacetin	0.21690	0.21469	0.21469	0.000	-1.01697	60.00000	Averaged
138 Diallate	0.20203	0.18255	0.18255	0.000	-9.64550	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-MAR-2010 10:07
 Lab File ID: s8c0203.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
 Analysis Type: Init. Cal. Times: 12:55 01:19
 Lab Sample ID: WBN100218-03.5 Quant Type: ISTD
 Method: /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.20071	0.17135	0.17135	0.000	-14.62982	60.00000	Averaged
213 Trans Diallate	0.23769	0.21476	0.21476	0.000	-9.64550	60.00000	Averaged
140 4-Aminobiphenyl	0.51727	0.57522	0.57522	0.000	11.20241	60.00000	Averaged
141 Pentachloronitrobenzene	0.07936	0.06802	0.06802	0.000	-14.29032	60.00000	Averaged
142 Pronamide	0.25230	0.25217	0.25217	0.000	-0.05161	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01907	0.01818	0.01818	0.000	-4.64519	60.00000	Averaged
147 Methapyrilene	0.29186	0.23526	0.23526	0.000	-19.39092	60.00000	Averaged
148 Isodrin	0.10718	0.09771	0.09771	0.000	-8.83288	60.00000	Averaged
149 Aramite	0.03388	0.03482	0.03482	0.000	2.78100	60.00000	Averaged
150 Kepone	0.07795	0.07080	0.07080	0.000	-9.16460	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.25808	0.23864	0.23864	0.000	-7.53210	60.00000	Averaged
152 Chlorobenzilate	0.26271	0.23976	0.23976	0.000	-8.73277	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.45535	0.47187	0.47187	0.000	3.62686	60.00000	Averaged
155 2-Acetylaminofluorene	44.61089	40.00000	0.25653	0.000	11.52723	60.00000	Linear
157 7,12Dimethylbenz(a)anthrace	0.51909	0.49236	0.49236	0.000	-5.15040	60.00000	Averaged
158 3-Methylcholanthrene	0.36780	0.37381	0.37381	0.000	1.63185	60.00000	Averaged

Data File: /chem/MSD8.i/s030210.b/s8c0203.d
Report Date: 02-Mar-2010 13:24

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0203.d
Lab Smp Id: WBN100218-03.5 Client Smp ID: AP12CVS
Inj Date : 02-MAR-2010 10:07
Operator : nagl Inst ID: MSD8.i
Smp Info : |WBN100218-03.5|40 PPM|1|SVMF|1|AP12CVS
Misc Info : |MSD8270|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 13:24 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	4.401	4.401	(1.000)	435863	40.0000	
* 29 Naphthalene-d8	136	5.658	5.658	(1.000)	1629584	40.0000	
* 46 Acenaphthene-d10	164	7.516	7.516	(1.000)	967111	40.0000	
* 67 Phenanthrene-d10	188	9.116	9.116	(1.000)	1775308	40.0000	
* 91 Chrysene-d12	240	12.011	12.011	(1.000)	1695624	40.0000	
* 98 Perylene-d12	264	14.087	14.087	(1.000)	1307663	40.0000	
209 Benzaldehyde	77	4.001	4.001	(0.909)	301919	40.0000	32.8
16 Acetophenone	105	4.777	4.777	(1.085)	462816	40.0000	35.3
189 Caprolactam	113	6.087	6.087	(1.076)	111058	40.0000	41.0
208 1,1'-Biphenyl	154	6.897	6.897	(0.918)	1134310	40.0000	38.4
207 Atrazine	173	8.801	8.801	(0.966)	66353	40.0000	42.3
77 Benzidine	184	10.558	10.558	(0.879)	534459	40.0000	41.6
90 3,3'-Dichlorobenzidine	252	11.959	11.959	(0.996)	436056	40.0000	41.5
102 1,4-Dioxane	88	2.101	2.101	(0.477)	125280	40.0000	35.6
103 Methyl methacrylate	100	2.101	2.101	(0.477)	70664	40.0000	38.6
104 Ethyl methacrylate	69	2.596	2.596	(0.590)	241702	40.0000	32.6
105 2-Picoline	93	2.835	2.835	(0.644)	434176	40.0000	36.4
106 N-Nitrosomethylethylamine	88	2.906	2.906	(0.660)	162627	40.0000	33.9
107 Methyl methanesulfonate	80	3.130	3.130	(0.711)	174574	40.0000	32.1
108 N-Nitrosodiethylamine	102	3.454	3.454	(0.785)	177709	40.0000	35.6
109 Ethyl Methanesulfonate	79	3.687	3.687	(0.838)	219685	40.0000	33.1
110 Pentachloroethane	167	4.144	4.144	(0.942)	130677	40.0000	37.4
111 N-Nitrosopyrrolidine	100	4.758	4.758	(1.081)	193753	40.0000	36.2 (Q)
113 N-Nitrosomorpholine	56	4.796	4.796	(1.090)	222380	40.0000	30.7
114 o-Toluidine	106	4.816	4.816	(1.094)	639949	40.0000	36.2
115 N-Nitrosopiperidine	114	5.096	5.096	(0.901)	193377	40.0000	38.2

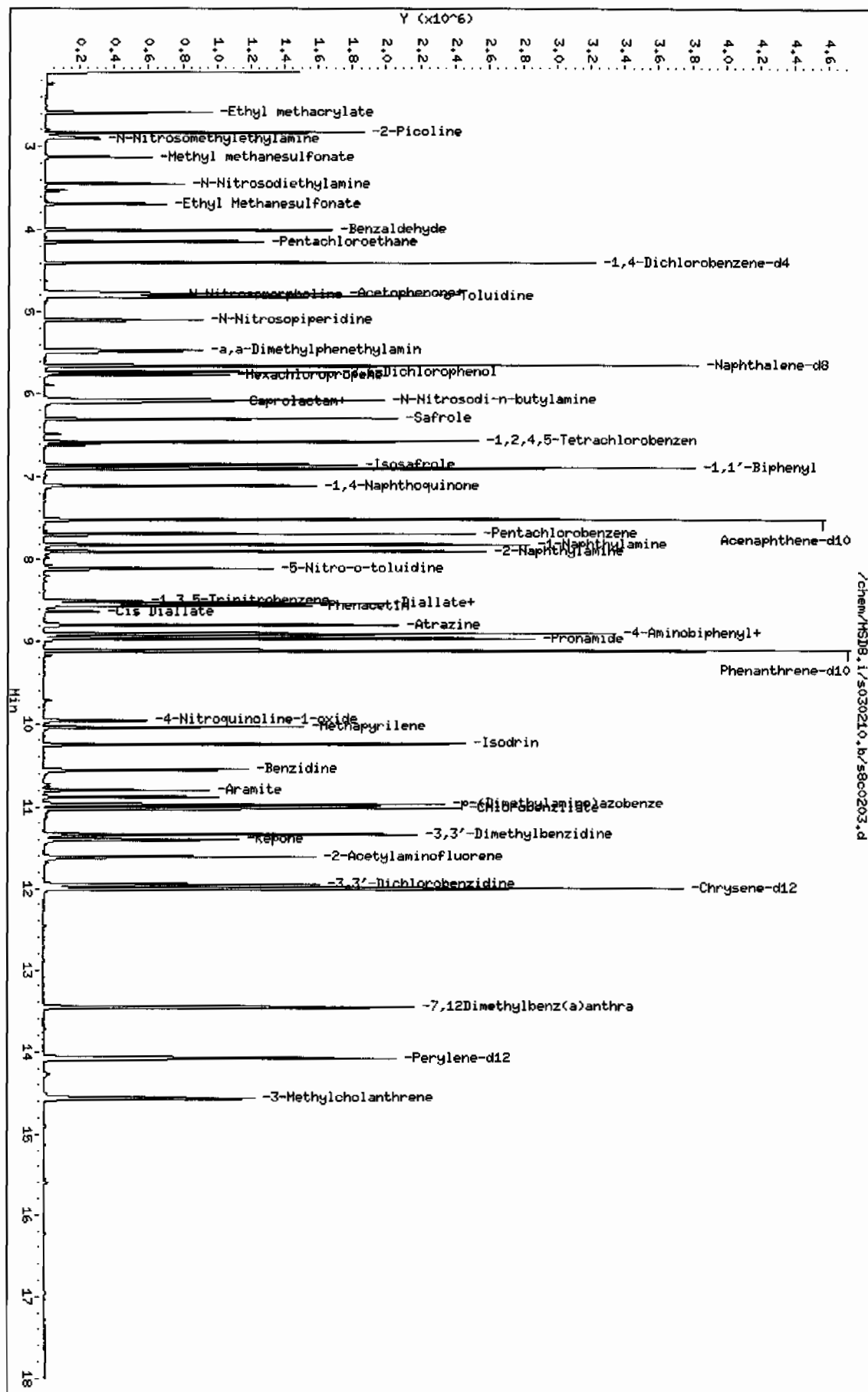
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng/ul)	(ng/ul)
=====	=====	=====	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	5.468	5.468	(0.966)	901218	40.0000	29.8
118 2,6-Dichlorophenol	162	5.739	5.739	(1.014)	330622	40.0000	40.3
119 Hexachloropropene	213	5.768	5.768	(1.019)	175723	40.0000	34.9
120 p-Phenylenediamine	108	6.097	6.097	(1.077)	360953	40.0000	45.1
121 N-Nitrosodi-n-butylamine	84	6.077	6.077	(1.074)	329752	40.0000	38.2
122 Safrole	162	6.306	6.306	(1.114)	308644	40.0000	39.2
123 1,2,4,5-Tetrachlorobenzene	216	6.577	6.577	(0.875)	425528	40.0000	37.0
124 Isosafrole	162	6.854	6.854	(0.912)	299136	40.0000	38.5
125 1,4-Naphthoquinone	158	7.106	7.106	(0.946)	295192	40.0000	41.2
127 Pentachlorobenzene	250	7.687	7.687	(1.023)	377618	40.0000	36.0
128 1-Naphthylamine	143	7.816	7.816	(1.040)	817770	40.0000	40.2
129 2-Naphthylamine	143	7.901	7.901	(1.051)	876193	40.0000	40.8
131 5-Nitro-o-toluidine	152	8.111	8.111	(1.079)	245563	40.0000	42.1
136 1,3,5-Trinitrobenzene	75	8.501	8.501	(0.933)	158933	40.0000	37.7
137 Phenacetin	108	8.563	8.563	(0.939)	381141	40.0000	39.6(Q)
138 Diallate	86	8.535	8.535	(0.936)	324076	40.0000	36.1
212 Cis Diallate	86	8.630	8.630	(0.947)	45630	6.00000	5.1
213 Trans Diallate	86	8.535	8.535	(0.936)	324076	34.0000	30.7
140 4-Aminobiphenyl	169	8.906	8.906	(0.977)	1021187	40.0000	44.5
141 Pentachloronitrobenzene	237	8.916	8.916	(0.978)	120759	40.0000	34.3(Q)
142 Pronamide	173	8.968	8.968	(0.984)	447680	40.0000	40.0
146 4-Nitroquinoline-1-oxide	101	9.963	9.963	(1.093)	32279	40.0000	38.1
147 Methapyrilene	58	10.044	10.044	(1.102)	417667	40.0000	32.2
148 Isodrin	193	10.254	10.254	(1.125)	173468	40.0000	36.5
149 Aramite	185	10.801	10.801	(1.185)	61819	40.0000	41.1
150 Kepone	272	11.401	11.401	(1.251)	125699	40.0000	36.3
151 p-(Dimethylamino)azobenzene	120	10.978	10.978	(0.914)	404645	40.0000	37.0
152 Chlorobenzilate	251	11.025	11.025	(0.918)	406550	40.0000	36.5
153 3,3'-Dimethylbenzidine	212	11.339	11.339	(0.944)	800110	40.0000	41.4
155 2-Acetylaminofluorene	181	11.616	11.616	(0.967)	434976	40.0000	44.6
157 7,12Dimethylbenz(a)anthracene	256	13.468	13.468	(0.956)	643835	40.0000	37.9
158 3-Methylcholanthrene	268	14.568	14.568	(1.034)	488813	40.0000	40.6(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSDB.i/s030210.b/s800203.d
 Date: 02-MAR-2010 10:07
 Client ID: AP12CVS
 Sample Info: IABN00218-03.5140 PHH11SVHF11AP12CVS
 Column Phase: J&W DB-5MS

Instrument: MSDB.1
 Operator: nag1
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 03-MAR-2010 13:40
Lab File ID: s8c0308.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	0.94435	0.87156	0.87156 0.000	-7.70713	60.00000	Averaged
5 Phenol-d5	1.17771	1.09738	1.09738 0.000	-6.82055	60.00000	Averaged
20 Nitrobenzene-d5	0.28435	0.25053	0.25053 0.000	-11.89290	60.00000	Averaged
39 2-Fluorobiphenyl	1.17740	1.09659	1.09659 0.000	-6.86309	60.00000	Averaged
60 2,4,6-Tribromophenol	0.13223	0.12505	0.12505 0.000	-5.42679	60.00000	Averaged
81 p-Terphenyl-d14	0.72015	0.67127	0.67127 0.000	-6.78726	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.60923	0.52195	0.52195 0.000	-14.32702	60.00000	Averaged
2 Pyridine	0.89373	0.76241	0.76241 0.000	-14.69332	60.00000	Averaged
4 Aniline	0.55542	0.45431	0.45431 0.000	-18.20528	60.00000	Averaged
6 Phenol	1.21617	1.09601	1.09601 0.001	-9.88049	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	0.83144	0.70784	0.70784 0.000	-14.86624	60.00000	Averaged
8 2-Chlorophenol	1.05605	1.01772	1.01772 0.000	-3.62966	60.00000	Averaged
203 n-Decane	1.08949	0.81694	0.81694 0.000	-25.01658	60.00000	Averaged
9 1,3-Dichlorobenzene	1.25240	1.22963	1.22963 0.000	-1.81758	60.00000	Averaged
11 1,4-Dichlorobenzene	1.29215	1.26496	1.26496 0.001	-2.10436	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.20194	1.18282	1.18282 0.000	-1.59087	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.63019	1.10550	1.10550 0.000	-32.18576	60.00000	Averaged
12 Benzyl alcohol	0.66057	0.44469	0.44469 0.000	-32.68110	60.00000	Averaged
15 o-Cresol	0.84463	0.74903	0.74903 0.000	-11.31876	60.00000	Averaged
18 m,p-Cresols	1.06890	0.92370	0.92370 0.000	-13.58351	60.00000	Averaged
17 N-Nitrosodipropylamine	0.77788	0.67631	0.67631 0.050	-13.05729	60.00000	Averaged spcc
19 Hexachloroethane	0.48694	0.46557	0.46557 0.000	-4.38944	60.00000	Averaged
21 Nitrobenzene	0.29331	0.25161	0.25161 0.000	-14.21767	60.00000	Averaged
22 Isophorone	0.53999	0.50022	0.50022 0.000	-7.36499	60.00000	Averaged
23 2-Nitrophenol	0.13462	0.13285	0.13285 0.001	-1.31382	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.23932	0.20906	0.20906 0.000	-12.64560	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.30282	0.28790	0.28790 0.000	-4.92531	60.00000	Averaged
26 2,4-Dichlorophenol	0.21654	0.20464	0.20464 0.001	-5.49726	20.00000	Averaged ccc
27 Benzoic acid	36.08338	40.00000	0.09085 0.000	-9.79155	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.29118	0.27855	0.27855 0.000	-4.33894	60.00000	Averaged
30 Naphthalene	39.33346	40.00000	0.85675 0.000	-1.66636	60.00000	Linear
204 alpha-Terpineol	0.22259	0.19758	0.19758 0.000	-11.23592	60.00000	Averaged
31 4-Chloroaniline	0.28585	0.23695	0.23695 0.000	-17.10879	60.00000	Averaged
32 Hexachlorobutadiene	0.18110	0.16870	0.16870 0.001	-6.84538	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23429	0.19958	0.19958 0.001	-14.81396	20.00000	Averaged ccc
34 2-Methylnaphthalene	39.32008	40.00000	0.57128 0.000	-1.69979	60.00000	Linear

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 03-MAR-2010 13:40
Lab File ID: s8c0308.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	39.37499	40.00000	0.56095	0.000	-1.56252	60.00000	Linear
36 Hexachlorocyclopentadiene	0.24827	0.18591	0.18591	0.050	-25.11780	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.52803	0.49904	0.49904	0.000	-5.49093	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30819	0.29193	0.29193	0.001	-5.27502	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.32711	0.27662	0.27662	0.000	-15.43327	60.00000	Averaged
40 2-Chloronaphthalene	37.07311	40.00000	0.91400	0.000	-7.31723	60.00000	Linear
42 o-Nitroaniline	0.27392	0.21360	0.21360	0.000	-22.02202	60.00000	Averaged
41 m-Nitroaniline	0.20877	0.10778	0.10778	0.000	-48.37373	60.00000	Averaged
43 Dimethylphthalate	1.12088	1.08844	1.08844	0.000	-2.89396	60.00000	Averaged
44 2,6-Dinitrotoluene	0.25341	0.25028	0.25028	0.000	-1.23365	60.00000	Averaged
50 2,4-Dinitrotoluene	0.32492	0.30660	0.30660	0.000	-5.63845	60.00000	Averaged
45 Acenaphthylene	1.66068	1.49173	1.49173	0.000	-10.17387	60.00000	Averaged
47 Acenaphthene	1.06294	0.93918	0.93918	0.001	-11.64350	20.00000	Averaged ccc
48 2,4-Dinitrophenol	35.89921	40.00000	0.06819	0.050	-10.25198	60.00000	Linear spcc
49 Dibenzofuran	1.39464	1.28924	1.28924	0.000	-7.55756	60.00000	Averaged
51 Diethylphthalate	1.17311	1.11693	1.11693	0.000	-4.78946	60.00000	Averaged
52 4-Nitrophenol	0.13654	0.08886	0.08886	0.050	-34.91769	60.00000	Averaged spcc
53 Fluorene	1.29100	1.15011	1.15011	0.000	-10.91277	60.00000	Averaged
54 4-Chlorophenylphenylether	0.62173	0.55203	0.55203	0.000	-11.21125	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	36.35765	40.00000	0.07107	0.000	-9.10588	60.00000	Linear
56 p-Nitroaniline	0.18448	0.09904	0.09904	0.000	-46.31350	60.00000	Averaged
133 Diphenylamine	0.50546	0.47966	0.47966	0.001	-5.10356	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.59375	0.51200	0.51200	0.000	-13.76846	60.00000	Averaged
61 4-Bromophenylphenylether	0.19114	0.18518	0.18518	0.000	-3.11608	60.00000	Averaged
63 Hexachlorobenzene	0.19866	0.19326	0.19326	0.000	-2.71891	60.00000	Averaged
65 Pentachlorophenol	0.08849	0.08534	0.08534	0.001	-3.55931	20.00000	Averaged ccc
206 n-Octadecane	0.39703	0.35310	0.35310	0.000	-11.06518	60.00000	Averaged
68 Phenanthrene	37.54058	40.00000	0.87935	0.000	-6.14856	60.00000	Linear
69 Anthracene	0.97083	0.86924	0.86924	0.000	-10.46511	60.00000	Averaged
72 Di-n-butylphthalate	1.01476	1.06193	1.06193	0.000	4.64836	60.00000	Averaged
76 Fluoranthene	1.01786	0.93461	0.93461	0.001	-8.17894	20.00000	Averaged ccc
79 Pyrene	1.24889	1.09743	1.09743	0.000	-12.12756	60.00000	Averaged
85 Butylbenzylphthalate	0.43672	0.45293	0.45293	0.000	3.71091	60.00000	Averaged
89 Benzo(a)anthracene	1.05261	0.92696	0.92696	0.000	-11.93681	60.00000	Averaged
92 Chrysene	38.15837	40.00000	0.87592	0.000	-4.60409	60.00000	Linear
93 bis(2-Ethylhexyl)phthalate	0.61117	0.65614	0.65614	0.000	7.35747	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 03-MAR-2010 13:40
Lab File ID: s8c0308.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100225-05.5 Quant Type: ISTD
Method: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
RRF	%D	%DRIFT	%D	%DRIFT		
94 Di-n-octylphthalate	40.04246	40.00000	1.23620	0.001	0.10616	20.00000 Linear ccc
95 Benzo(b)fluoranthene	1.13405	0.99750	0.99750	0.000	-12.04012	60.00000 Averaged
96 Benzo(k)fluoranthene	1.14008	1.04173	1.04173	0.000	-8.62679	60.00000 Averaged
97 Benzo(a)pyrene	0.95647	0.90308	0.90308	0.001	-5.58147	20.00000 Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.79303	0.81301	0.81301	0.000	2.51997	60.00000 Averaged
100 Dibenzo(a,h)anthracene	0.61288	0.76612	0.76612	0.000	25.00234	60.00000 Averaged
101 Benzo(ghi)perylene	0.65613	0.78997	0.78997	0.000	20.39901	60.00000 Averaged
126 m-Dinitrobenzene	0.16162	0.15087	0.15087	0.000	-6.64811	60.00000 Averaged
130 2,3,4,6-Tetrachlorophenol	0.27739	0.25115	0.25115	0.000	-9.45883	60.00000 Averaged
143 Dinoseb	36.74798	40.00000	0.10557	0.000	-8.13006	60.00000 Linear
173 Carbazole	0.69337	0.37963	0.37963	0.000	-45.24887	60.00000 Averaged
184 p-Benzoquinone	14.83768	40.00000	0.05865	0.000	-62.90581	60.00000 Linear <-
192 Methoxychlor	0.57371	0.56230	0.56230	0.000	-1.98780	60.00000 Averaged
211 p-Toluidine	1.14055	0.90774	0.90774	0.000	-20.41214	60.00000 Averaged
210 m-Toluidine	1.48620	1.13118	1.13118	0.000	-23.88813	60.00000 Averaged
26 Phthalic anhydride	23.67392	40.00000	0.06621	0.000	-40.81519	60.00000 Linear
179 Dibenzo(a,e)pyrene	0.26112	0.45698	0.45698	0.000	75.00498	60.00000 Averaged <-
214 1,4-Dinitrobenzene	0.17136	0.12710	0.12710	0.000	-25.83037	60.00000 Averaged
215 2-Ethoxyethanol	0.57374	0.36887	0.36887	0.000	-35.70808	60.00000 Averaged
216 Methylenebis(2-chloroanilin	27.24631	40.00000	0.06933	0.000	-31.88422	60.00000 Linear
M 222 Trichlorophenols	0.31765	0.28428	0.28428	0.000	-10.50542	60.00000 Averaged
M 223 Tetrachlorophenols	0.27739	0.25115	0.25115	0.000	-9.45883	60.00000 Averaged
M 224 Benzo(b,k)fluoranthene	1.13706	1.01962	1.01962	0.000	-10.32893	60.00000 Averaged

Data File: /chem/MSD8.i/s030310.b/s8c0308.d
 Report Date: 04-Mar-2010 07:36

Page 1

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Data file : /chem/MSD8.i/s030310.b/s8c0308.d
 Lab Smp Id: WBN100225-05.5 Client Smp ID: MEGACVS
 Inj Date : 03-MAR-2010 13:40
 Operator : nag1 Inst ID: MSD8.i
 Smp Info : |WBN100225-05.5|40 PPM|1|SVMF|1|MEGACVS
 Misc Info : |MSD8270|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
 Meth Date : 04-Mar-2010 07:36 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: MEGAIICARE.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	4.354	4.354	(1.000)	337349	40.0000	
* 29 Naphthalene-d8		136	5.611	5.611	(1.000)	1317433	40.0000	
* 46 Acenaphthene-d10		164	7.463	7.463	(1.000)	787174	40.0000	
* 67 Phenanthrene-d10		188	9.058	9.058	(1.000)	1390793	40.0000	
* 91 Chrysene-d12		240	11.944	11.944	(1.000)	1272293	40.0000	
* 98 Perylene-d12		264	13.992	13.992	(1.000)	991553	40.0000	
\$ 3 2-Fluorophenol		112	3.201	3.201	(0.735)	294021	40.0000	36.9
\$ 5 Phenol-d5		99	3.973	3.973	(0.912)	370200	40.0000	37.3
\$ 20 Nitrobenzene-d5		82	4.877	4.877	(0.869)	330055	40.0000	35.2
\$ 39 2-Fluorobiphenyl		172	6.735	6.735	(0.902)	863207	40.0000	37.2
\$ 60 2,4,6-Tribromophenol		329	8.306	8.306	(1.113)	98436	40.0000	37.8
\$ 81 p-Terphenyl-d14		244	10.773	10.773	(0.902)	854050	40.0000	37.3
1 N-Methyl-N-nitrosomethylamine		74	2.239	2.239	(0.514)	176078	40.0000	34.3
2 Pyridine		79	2.273	2.273	(0.522)	257198	40.0000	34.1
4 Aniline		66	4.044	4.044	(0.929)	153260	40.0000	32.7
6 Phenol		94	3.987	3.987	(0.916)	369738	40.0000	36.0
7 bis(2-Chloroethyl) ether		63	4.087	4.087	(0.939)	238788	40.0000	34.0
8 2-Chlorophenol		128	4.154	4.154	(0.954)	343327	40.0000	38.5
203 n-Decane		43	4.177	4.177	(0.960)	275594	40.0000	30.0
9 1,3-Dichlorobenzene		146	4.301	4.301	(0.988)	414816	40.0000	39.3
11 1,4-Dichlorobenzene		146	4.368	4.368	(1.003)	426734	40.0000	39.2
13 1,2-Dichlorobenzene		146	4.511	4.511	(1.036)	399022	40.0000	39.4
14 bis(2-Chloroisopropyl) ether		45	4.597	4.597	(1.056)	372940	40.0000	27.1
12 Benzyl alcohol		108	4.463	4.463	(1.025)	150015	40.0000	26.9
15 o-Cresol		107	4.558	4.558	(1.047)	252683	40.0000	35.5
18 m,p-Cresols		107	4.706	4.706	(1.081)	311610	40.0000	34.6

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	4.725	4.725	(1.085)	228153	40.0000	34.8
19 Hexachloroethane	117	4.839	4.839	(1.112)	157059	40.0000	38.2
21 Nitrobenzene	77	4.897	4.897	(0.873)	331474	40.0000	34.3
22 Isophorone	82	5.135	5.135	(0.915)	659011	40.0000	37.0
23 2-Nitrophenol	139	5.216	5.216	(0.930)	175020	40.0000	39.5
24 2,4-Dimethylphenol	122	5.239	5.239	(0.934)	275421	40.0000	34.9
25 bis(2-Chloroethoxy)methane	93	5.344	5.344	(0.952)	379295	40.0000	38.0
26 2,4-Dichlorophenol	162	5.454	5.454	(0.972)	269597	40.0000	37.8
27 Benzoic acid	105	5.320	5.320	(0.948)	119684	40.0000	36.1
28 1,2,4-Trichlorobenzene	180	5.549	5.549	(0.989)	366967	40.0000	38.3
30 Naphthalene	128	5.630	5.630	(1.003)	1128715	40.0000	39.3
204 alpha-Terpineol	59	5.630	5.630	(1.003)	260293	40.0000	35.5
31 4-Chloroaniline	127	5.677	5.677	(1.012)	312162	40.0000	33.2
32 Hexachlorobutadiene	225	5.754	5.754	(1.025)	222250	40.0000	37.3
33 4-Chloro-3-methylphenol	107	6.168	6.168	(1.099)	262934	40.0000	34.1
34 2-Methylnaphthalene	142	6.354	6.354	(1.132)	752623	40.0000	39.3
35 1-Methylnaphthalene	142	6.458	6.458	(1.151)	739014	40.0000	39.4
36 Hexachlorocyclopentadiene	237	6.516	6.516	(0.873)	146342	40.0000	30.0
205 2,3-Dichloroaniline	161	6.644	6.644	(0.890)	392831	40.0000	37.8
37 2,4,6-Trichlorophenol	196	6.644	6.644	(0.890)	229799	40.0000	37.9
38 2,4,5-Trichlorophenol	196	6.678	6.678	(0.895)	217751	40.0000	33.8
40 2-Chloronaphthalene	162	6.868	6.868	(0.920)	719477	40.0000	37.1
42 o-Nitroaniline	65	6.968	6.968	(0.934)	168139	40.0000	31.2
41 m-Nitroaniline	138	7.411	7.411	(0.993)	84842	40.0000	20.6
43 Dimethylphthalate	163	7.168	7.168	(0.960)	856793	40.0000	38.8
44 2,6-Dinitrotoluene	165	7.235	7.235	(0.969)	197017	40.0000	39.5
50 2,4-Dinitrotoluene	165	7.663	7.663	(1.027)	241347	40.0000	37.7
45 Acenaphthylene	152	7.311	7.311	(0.980)	1174250	40.0000	35.9
47 Acenaphthene	154	7.497	7.497	(1.004)	739297	40.0000	35.3
48 2,4-Dinitrophenol	184	7.520	7.520	(1.008)	53678	40.0000	35.9
49 Dibenzofuran	168	7.682	7.682	(1.029)	1014858	40.0000	37.0
51 Diethylphthalate	149	7.920	7.920	(1.061)	879216	40.0000	38.1
52 4-Nitrophenol	139	7.578	7.578	(1.015)	69949	40.0000	26.0
53 Fluorene	166	8.049	8.049	(1.078)	905340	40.0000	35.6
54 4-Chlorophenylphenylether	204	8.049	8.049	(1.078)	434543	40.0000	35.5
55 2-Methyl-4,6-dinitrophenol	198	8.097	8.097	(0.894)	98846	40.0000	36.4
56 p-Nitroaniline	138	8.063	8.063	(1.080)	77961	40.0000	21.5
133 Diphenylamine	169	8.173	8.173	(0.902)	667112	40.0000	38.0
58 1,2-Diphenylhydrazine	77	8.216	8.216	(0.907)	712081	40.0000	34.5
61 4-Bromophenylphenylether	248	8.573	8.573	(0.946)	257549	40.0000	38.8
63 Hexachlorobenzene	284	8.639	8.639	(0.954)	268788	40.0000	38.9
65 Pentachlorophenol	266	8.844	8.844	(0.976)	118693	40.0000	38.6
206 n-Octadecane	57	8.935	8.935	(0.986)	491083	40.0000	35.6
68 Phenanthrene	178	9.082	9.082	(1.003)	1222993	40.0000	37.5
69 Anthracene	178	9.139	9.139	(1.009)	1208926	40.0000	35.8
72 Di-n-butylphthalate	149	9.682	9.682	(1.069)	1476924	40.0000	41.8
76 Fluoranthene	202	10.363	10.363	(1.144)	1299847	40.0000	36.7

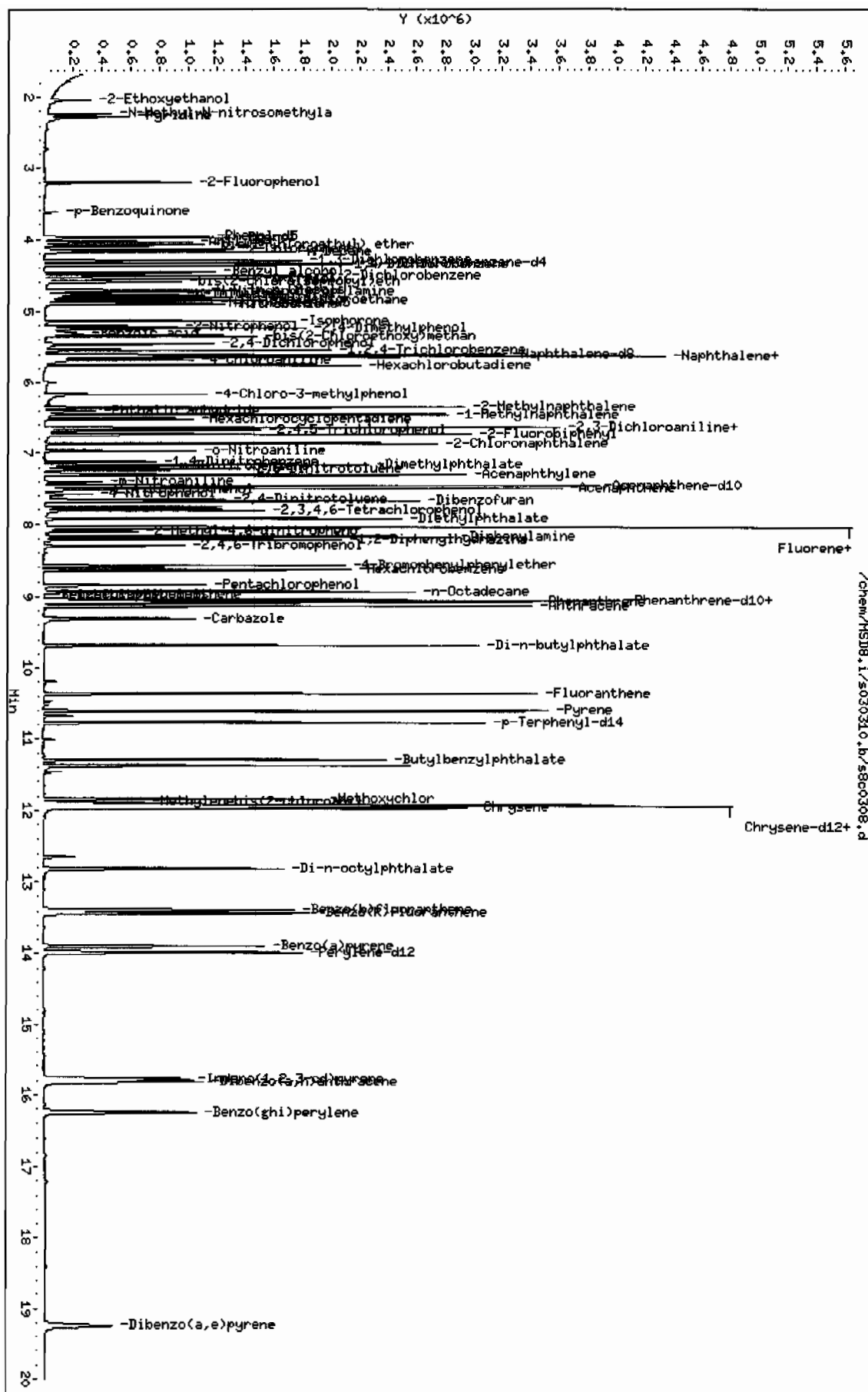
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	10.606	10.606	(0.888)	1396255	40.0000	35.1
85 Butylbenzylphthalate	149	11.297	11.297	(0.946)	576255	40.0000	41.5
89 Benzo(a)anthracene	228	11.930	11.930	(0.999)	1179368	40.0000	35.2
92 Chrysene	228	11.973	11.973	(1.002)	1114428	40.0000	38.2
93 bis(2-Ethylhexyl)phthalate	149	11.954	11.954	(1.001)	834799	40.0000	42.9
94 Di-n-octylphthalate	149	12.820	12.820	(0.916)	1225758	40.0000	40.0
95 Benzo(b)fluoranthene	252	13.392	13.392	(0.957)	989079	40.0000	35.2
96 Benzo(k)fluoranthene	252	13.435	13.435	(0.960)	1032928	40.0000	36.5
97 Benzo(a)pyrene	252	13.901	13.901	(0.994)	895453	40.0000	37.8
99 Indeno(1,2,3-cd)pyrene	276	15.787	15.787	(1.128)	806143	40.0000	41.0
100 Dibenzo(a,h)anthracene	278	15.825	15.825	(1.131)	759644	40.0000	50.0
101 Benzo(ghi)perylene	276	16.254	16.254	(1.162)	783297	40.0000	48.2
126 m-Dinitrobenzene	168	7.201	7.201	(0.965)	118763	40.0000	37.3
130 2,3,4,6-Tetrachlorophenol	232	7.806	7.806	(1.046)	197700	40.0000	36.2
143 Dinoseb	211	9.044	9.044	(0.998)	146829	40.0000	36.7
173 Carbazole	167	9.306	9.306	(1.027)	527981	40.0000	21.9
184 p-Benzoquinone	54	3.620	3.620	(0.832)	19787	40.0000	14.8
192 Methoxychlor	227	11.844	11.844	(0.992)	715415	40.0000	39.2
211 p-Toluidine	106	4.768	4.768	(1.095)	306225	40.0000	31.8
210 m-Toluidine	106	4.801	4.801	(1.103)	381601	40.0000	30.4
26 Phthalic anhydride	104	6.401	6.401	(1.141)	87233	40.0000	23.7
179 Dibenzo(a,e)pyrene	302	19.249	19.249	(1.376)	453117	40.0000	70.0
214 1,4-Dinitrobenzene	75	7.120	7.120	(0.954)	100050	40.0000	29.7
215 2-Ethoxyethanol	59	2.035	2.035	(0.467)	124437	40.0000	25.7
216 Methylenebis(2-chloroaniline)	231	11.897	11.897	(0.996)	88213	40.0000	27.2
M 222 Trichlorophenols	196				447550	80.0000	71.6
M 223 Tetrachlorophenols	232				197700	40.0000	36.2
M 224 Benzo(b,k)fluoranthene	252				2022007	80.0000	71.7

Page 1

Client ID: MEGACY5

Instrument: MSD8.1

Operator: nag1
Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 03-MAR-2010 14:12
Lab File ID: s8c0309.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-03.4 Quant Type: ISTD
Method: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.84330	0.74685	0.74685	0.000	-11.43676	60.00000	Averaged
16 Acetophenone	1.20309	1.08469	1.08469	0.000	-9.84064	60.00000	Averaged
189 Caprolactam	0.06655	0.06983	0.06983	0.000	4.92580	60.00000	Averaged
208 1,1'-Biphenyl	1.22219	1.15508	1.15508	0.000	-5.49106	60.00000	Averaged
207 Atrazine	0.03531	0.04177	0.04177	0.000	18.27090	60.00000	Averaged
77 Benzidine	25.97397	40.00000	0.16771	0.000	-35.06508	60.00000	Linear
90 3,3'-Dichlorobenzidine	0.24780	0.22841	0.22841	0.000	-7.82475	60.00000	Averaged
102 1,4-Dioxane	0.32319	0.29702	0.29702	0.000	-8.09822	60.00000	Averaged
103 Methyl methacrylate	0.16817	0.16468	0.16468	0.000	-2.07300	60.00000	Averaged
104 Ethyl methacrylate	0.67963	0.58750	0.58750	0.000	-13.55569	60.00000	Averaged
105 2-Picoline	1.09294	1.03810	1.03810	0.000	-5.01751	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.43986	0.38831	0.38831	0.000	-11.72030	60.00000	Averaged
107 Methyl methanesulfonate	0.49950	0.42657	0.42657	0.000	-14.60026	60.00000	Averaged
108 N-Nitrosodiethylamine	0.45804	0.42367	0.42367	0.000	-7.50458	60.00000	Averaged
109 Ethyl Methanesulfonate	0.60902	0.53330	0.53330	0.000	-12.43289	60.00000	Averaged
110 Pentachloroethane	0.32092	0.31105	0.31105	0.000	-3.07499	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.49059	0.43983	0.43983	0.000	-10.34637	60.00000	Averaged
113 N-Nitrosomorpholine	0.66385	0.53422	0.53422	0.000	-19.52771	60.00000	Averaged
114 o-Toluidine	1.62183	1.54532	1.54532	0.000	-4.71773	60.00000	Averaged
115 N-Nitrosopiperidine	0.12437	0.12264	0.12264	0.000	-1.38679	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.74304	0.58158	0.58158	0.000	-21.72985	60.00000	Averaged
118 2,6-Dichlorophenol	0.20154	0.20625	0.20625	0.000	2.33410	60.00000	Averaged
119 Hexachloropropene	0.12360	0.09152	0.09152	0.000	-25.95821	60.00000	Averaged
120 p-Phenylenediamine	0.19655	0.17463	0.17463	0.000	-11.15227	60.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.21161	0.20146	0.20146	0.000	-4.79428	60.00000	Averaged
122 Safrole	0.19334	0.18942	0.18942	0.000	-2.03052	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47582	0.44833	0.44833	0.000	-5.77719	60.00000	Averaged
124 Isosafrole	0.32130	0.30003	0.30003	0.000	-6.61887	60.00000	Averaged
125 1,4-Naphthoquinone	0.29641	0.31775	0.31775	0.000	7.19940	60.00000	Averaged
127 Pentachlorobenzene	0.43422	0.39656	0.39656	0.000	-8.67267	60.00000	Averaged
128 1-Naphthylamine	0.84230	0.76622	0.76622	0.000	-9.03219	60.00000	Averaged
129 2-Naphthylamine	0.88763	0.79647	0.79647	0.000	-10.26971	60.00000	Averaged
131 5-Nitro-o-toluidine	0.24122	0.21981	0.21981	0.000	-8.87617	60.00000	Averaged
136 1,3,5-Trinitrobenzene	0.09499	0.08269	0.08269	0.000	-12.95411	60.00000	Averaged
137 Phenacetin	0.21690	0.19915	0.19915	0.000	-8.17993	60.00000	Averaged
138 Diallylate	0.20203	0.20074	0.20074	0.000	-0.64127	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 03-MAR-2010 14:12
Lab File ID: s8c0309.d Init. Cal. Date(s): 20-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 12:55 01:19
Lab Sample ID: WBN100218-03.4 Quant Type: ISTD
Method: /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.20071	0.19732	0.19732	0.000	-1.69084	60.00000	Averaged
213 Trans Diallate	0.23769	0.23616	0.23616	0.000	-0.64127	60.00000	Averaged
140 4-Aminobiphenyl	0.51727	0.43693	0.43693	0.000	-15.53169	60.00000	Averaged
141 Pentachloronitrobenzene	0.07936	0.07257	0.07257	0.000	-8.56446	60.00000	Averaged
142 Pronamide	0.25230	0.26751	0.26751	0.000	6.02765	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.01907	0.01545	0.01545	0.000	-18.98880	60.00000	Averaged
147 Methapyrilene	0.29186	0.25442	0.25442	0.000	-12.82705	60.00000	Averaged
148 Isodrin	0.10718	0.10342	0.10342	0.000	-3.50335	60.00000	Averaged
149 Aramite	0.03388	0.03438	0.03438	0.000	1.48196	60.00000	Averaged
150 Kepone	0.07795	0.07759	0.07759	0.000	-0.46233	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.25808	0.26798	0.26798	0.000	3.83516	60.00000	Averaged
152 Chlorobenzilate	0.26271	0.28487	0.28487	0.000	8.43508	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.45535	0.34912	0.34912	0.000	-23.33020	60.00000	Averaged
155 2-Acetylaminofluorene	40.27859	40.00000	0.22729	0.000	0.69648	60.00000	Linear
157 7,12Dimethylbenz(a)anthrace	0.51909	0.50778	0.50778	0.000	-2.17967	60.00000	Averaged
158 3-Methylcholanthrene	0.36780	0.37334	0.37334	0.000	1.50602	60.00000	Averaged

Data File: /chem/MSD8.i/s030310.b/s8c0309.d
Report Date: 04-Mar-2010 07:36

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GEL Laboratories LLC

Data file : /chem/MSD8.i/s030310.b/s8c0309.d
Lab Smp Id: WBN100218-03.4 Client Smp ID: AP12CVS
Inj Date : 03-MAR-2010 14:12
Operator : nag1 Inst ID: MSD8.i
Smp Info : |WBN100218-03.4|40 PPM|1|SVMF|1|AP12CVS
Misc Info : |MSD8270|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030310.b/MSD8-8270AQA-022010.m
Meth Date : 04-Mar-2010 07:36 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: hpc1p1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
*****	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	4.354	4.354	(1.000)	514258	40.0000	
* 29 Naphthalene-d8	136	5.611	5.611	(1.000)	1965389	40.0000	
* 46 Acenaphthene-d10	164	7.463	7.463	(1.000)	1178677	40.0000	
* 67 Phenanthrene-d10	188	9.058	9.058	(1.000)	1980428	40.0000	
* 91 Chrysene-d12	240	11.939	11.939	(1.000)	1525476	40.0000	
* 98 Perylene-d12	264	13.987	13.987	(1.000)	1125807	40.0000	
209 Benzaldehyde	77	3.958	3.958	(0.909)	384075	40.0000	35.4
16 Acetophenone	105	4.730	4.730	(1.086)	557813	40.0000	36.1
189 Caprolactam	113	6.030	6.030	(1.075)	137248	40.0000	42.0
208 1,1'-Biphenyl	154	6.844	6.844	(0.917)	1361468	40.0000	37.8
207 Atrazine	173	8.749	8.749	(0.966)	82716	40.0000	47.3
77 Benzidine	184	10.506	10.506	(0.880)	255830	40.0000	26.0
90 3,3'-Dichlorobenzidine	252	11.892	11.892	(0.996)	348433	40.0000	36.9
102 1,4-Dioxane	88	2.039	2.039	(0.468)	152744	40.0000	36.8
103 Methyl methacrylate	100	2.044	2.044	(0.469)	84688	40.0000	39.2
104 Ethyl methacrylate	69	2.544	2.544	(0.584)	302126	40.0000	34.6
105 2-Picoline	93	2.787	2.787	(0.640)	533853	40.0000	38.0
106 N-Nitrosomethylethylamine	88	2.858	2.858	(0.657)	199690	40.0000	35.3
107 Methyl methanesulfonate	80	3.082	3.082	(0.708)	219368	40.0000	34.2
108 N-Nitrosodiethylamine	102	3.406	3.406	(0.782)	217876	40.0000	37.0
109 Ethyl Methanesulfonate	79	3.644	3.644	(0.837)	274254	40.0000	35.0
110 Pentachloroethane	167	4.096	4.096	(0.941)	159960	40.0000	38.8
111 N-Nitrosopyrrolidine	100	4.711	4.711	(1.082)	226185	40.0000	35.9 (Q)
113 N-Nitrosomorpholine	56	4.744	4.744	(1.090)	274725	40.0000	32.2
114 o-Toluidine	106	4.763	4.763	(1.094)	794692	40.0000	38.1
115 N-Nitrosopiperidine	114	5.049	5.049	(0.900)	241044	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	5.454	5.454	(0.972)	1143022	40.0000	31.3
118 2,6-Dichlorophenol	162	5.687	5.687	(1.014)	405354	40.0000	40.9
119 Hexachloropropene	213	5.720	5.720	(1.020)	179867	40.0000	29.6
120 p-Phenylenediamine	108	6.044	6.044	(1.077)	343220	40.0000	35.5
121 N-Nitrosodi-n-butylamine	84	6.030	6.030	(1.075)	395954	40.0000	38.1
122 Safrole	162	6.254	6.254	(1.115)	372277	40.0000	39.2
123 1,2,4,5-Tetrachlorobenzene	216	6.530	6.530	(0.875)	528436	40.0000	37.7
124 Isosafrole	162	6.806	6.806	(0.912)	353644	40.0000	37.4
125 1,4-Naphthoquinone	158	7.054	7.054	(0.945)	374530	40.0000	42.9
127 Pentachlorobenzene	250	7.635	7.635	(1.023)	467418	40.0000	36.5
128 1-Naphthylamine	143	7.763	7.763	(1.040)	903130	40.0000	36.4
129 2-Naphthylamine	143	7.849	7.849	(1.052)	938785	40.0000	35.9
131 5-Nitro-o-toluidine	152	8.054	8.054	(1.079)	259083	40.0000	36.4
136 1,3,5-Trinitrobenzene	75	8.449	8.449	(0.933)	163757	40.0000	34.8
137 Phenacetin	108	8.506	8.506	(0.939)	394410	40.0000	36.7(Q)
138 Diallate	86	8.482	8.482	(0.936)	397547	40.0000	39.7
212 Cis Diallate	86	8.577	8.577	(0.947)	58617	6.00000	5.9
213 Trans Diallate	86	8.482	8.482	(0.936)	397547	34.0000	33.8
140 4-Aminobiphenyl	169	8.854	8.854	(0.977)	865307	40.0000	33.8
141 Pentachloronitrobenzene	237	8.863	8.863	(0.978)	143711	40.0000	36.6(Q)
142 Pronamide	173	8.915	8.915	(0.984)	529781	40.0000	42.4
146 4-Nitroquinoline-1-oxide	101	9.911	9.911	(1.094)	30592	40.0000	32.4
147 Methapyrilene	58	9.992	9.992	(1.103)	503864	40.0000	34.9
148 Isodrin	193	10.201	10.201	(1.126)	204823	40.0000	38.6
149 Aramite	185	10.749	10.749	(1.187)	68090	40.0000	40.6
150 Kepone	272	11.344	11.344	(1.252)	153656	40.0000	39.8
151 p-(Dimethylamino)azobenzene	120	10.925	10.925	(0.915)	408793	40.0000	41.5
152 Chlorobenzilate	251	10.973	10.973	(0.919)	434555	40.0000	43.4
153 3,3'-Dimethylbenzidine	212	11.282	11.282	(0.945)	532571	40.0000	30.7
155 2-Acetylaminofluorene	181	11.558	11.558	(0.968)	346729	40.0000	40.3
157 7,12Dimethylbenz(a)anthracene	256	13.377	13.377	(0.956)	571658	40.0000	39.1
158 3-Methylcholanthrene	268	14.468	14.468	(1.034)	420313	40.0000	40.6(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD8.1/s030310.b/s800309.d

Date : 03-MAR-2010 14:12

Client ID: PP12CVS

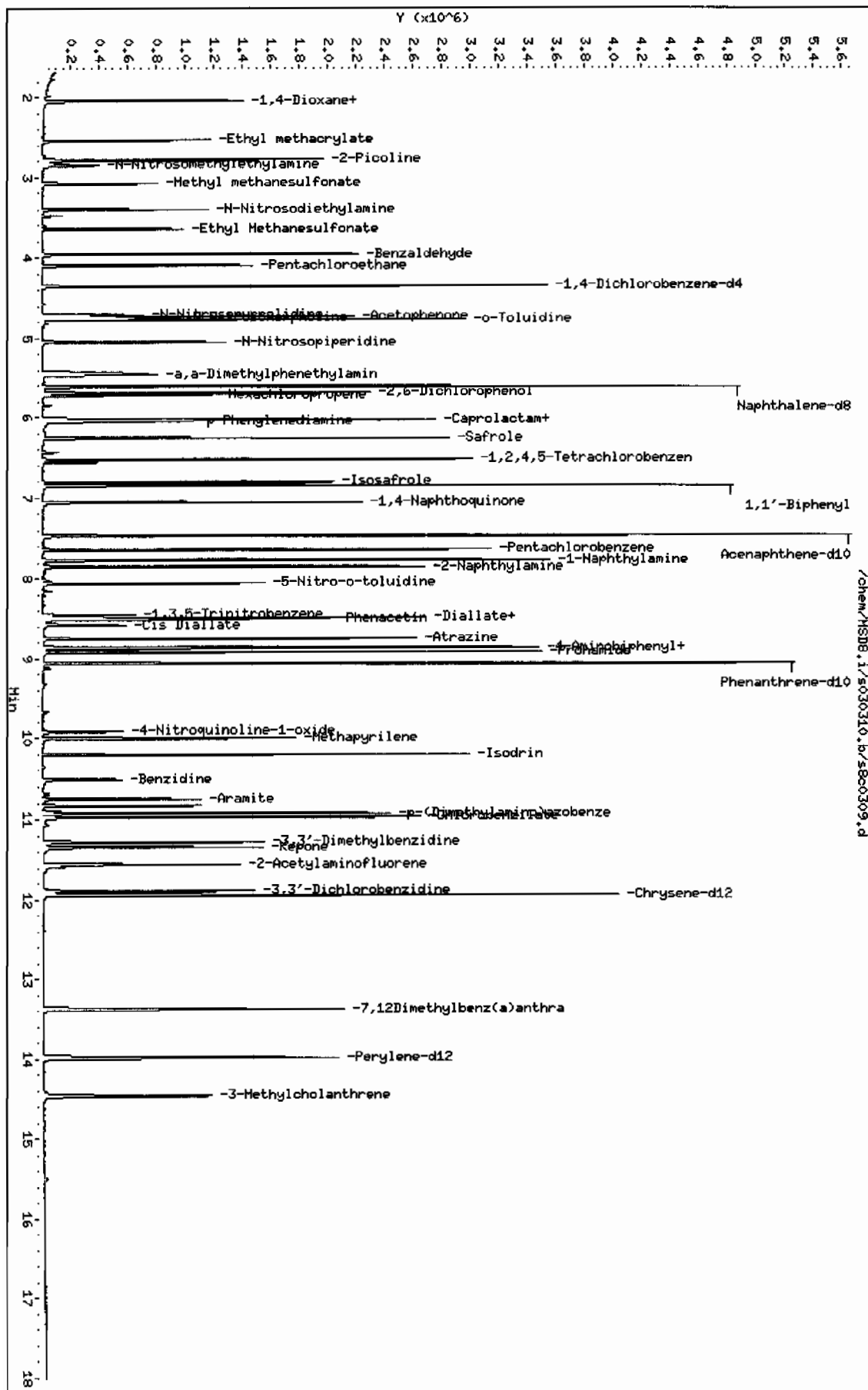
Sample Info: HSD800218-03.4140 PP111:SWH/11/PP12CVS

Column phase: 36M DB-5MS

Instrument: HSD8.1

Operator: nag1

Column diameter: 0.20



QC Data

Data File: /chem/MSDB,i/s022010,b/s8b2001.d

Page 1

Date : 20-FEB-2010 12:04

Client ID: DFTPP

Instrument: MSDB,i

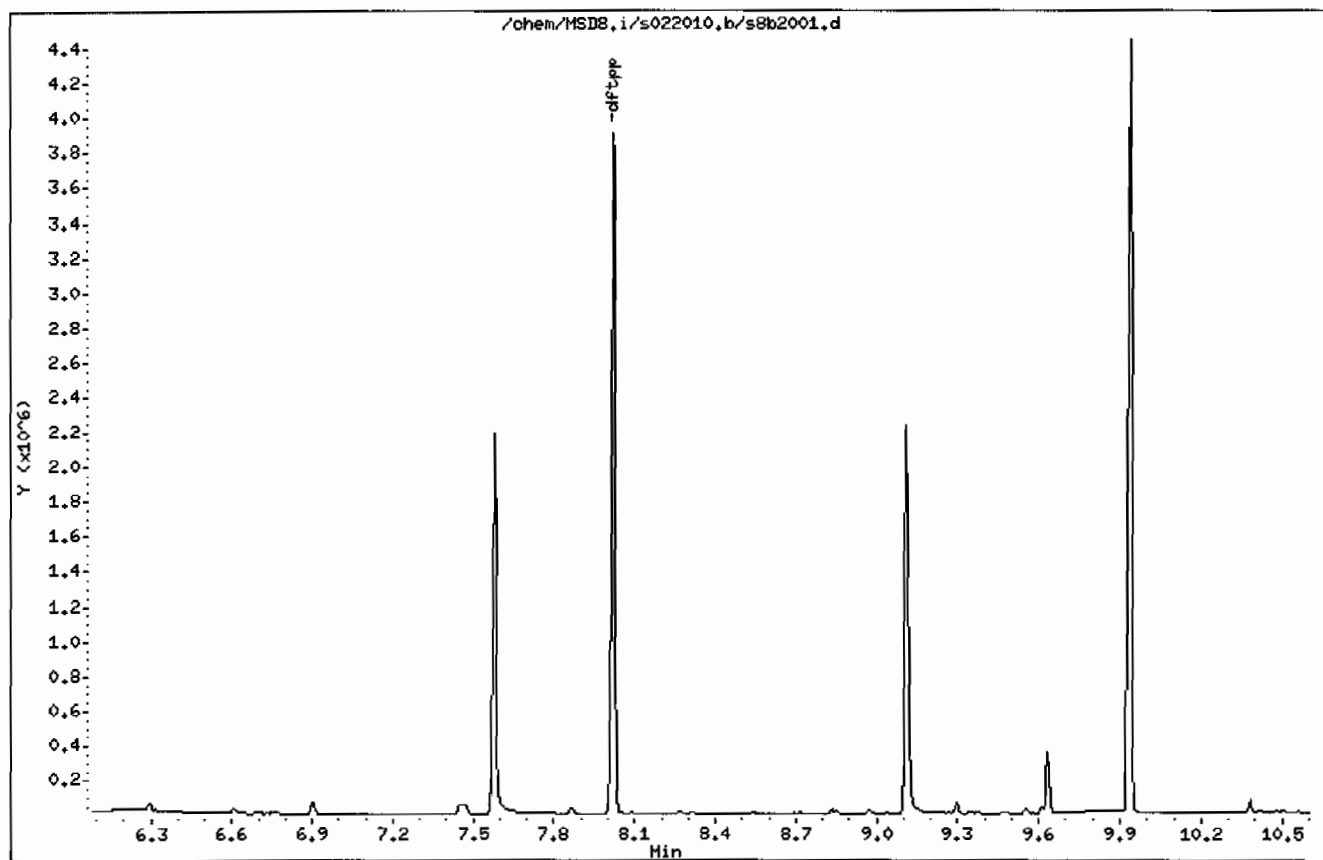
Sample Info: IWBNI00207-01150 PPM11ISVHF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20



Date : 20-FEB-2010 12:04

Client ID: DFTTP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVMF11IDFTTP

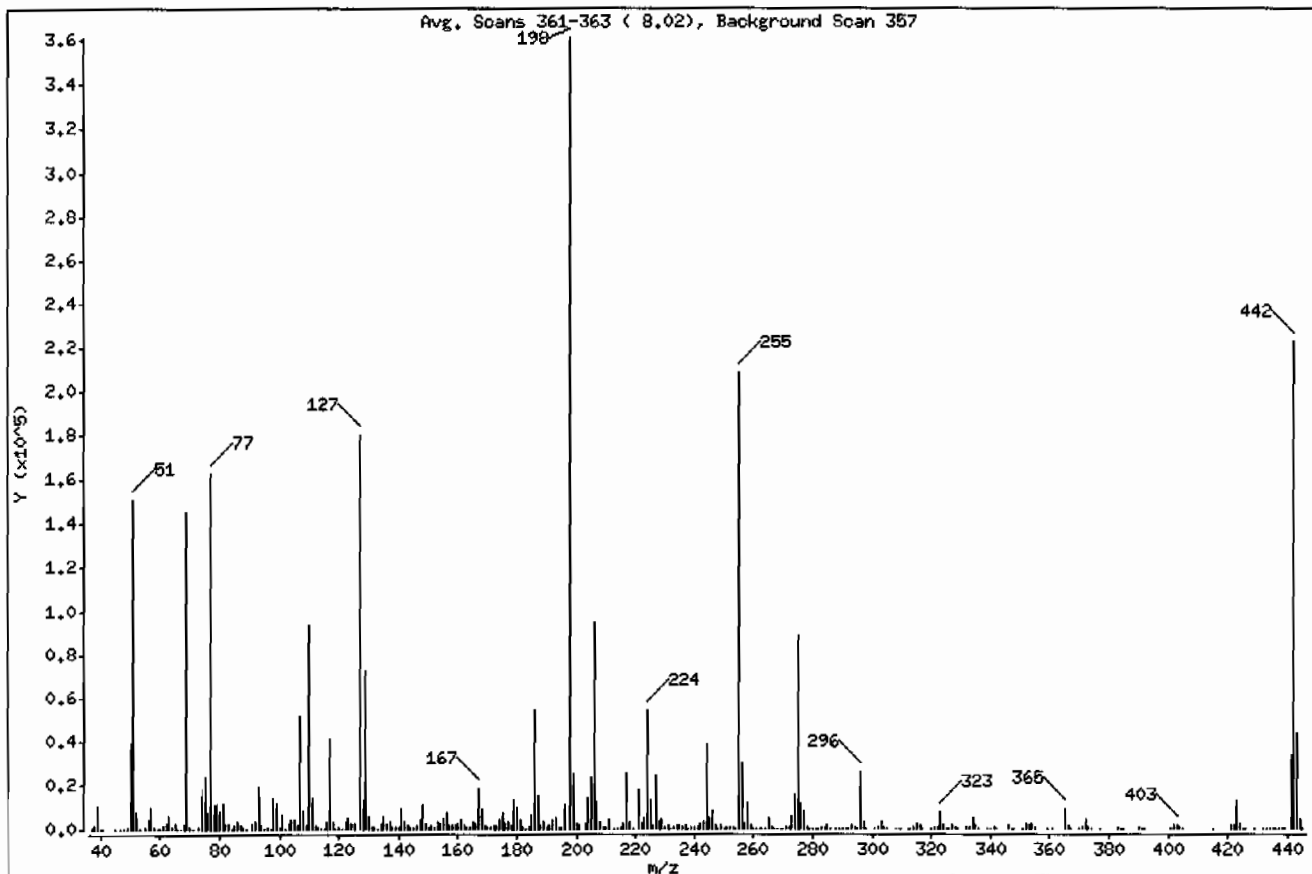
Volume Injected (uL): 1.0

Operator: nag1

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	41.91
68	Less than 2.00% of mass 69	0.76 (1.89)
69	Mass 69 relative abundance	40.27
70	Less than 2.00% of mass 69	0.22 (0.56)
127	40.00 - 60.00% of mass 198	49.86
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.79
276	10.00 - 30.00% of mass 198	24.30
365	Greater than 1.00% of mass 198	2.63
441	Present, but less than mass 443	9.09
442	Greater than 40.00% of mass 198	61.67
443	17.00 - 23.00% of mass 442	11.88 (19.27)

Date : 20-FEB-2010 12:04

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBH100207-01150 PPH11SVHF11DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2001.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	636	129.00	72112	216.00	2111	304.00	793
38.00	1805	130.00	6198	217.00	25088	305.00	96
39.00	10515	131.00	1179	218.00	3223	308.00	368
40.00	135	132.00	719	219.00	274	309.00	231
41.00	281	133.00	246	221.00	17016	310.00	352
45.00	296	134.00	2094	222.00	2240	312.00	71
47.00	79	135.00	5474	223.00	5388	313.00	267
48.00	100	136.00	2273	224.00	53856	314.00	1186
49.00	1097	137.00	2986	225.00	13496	315.00	2886
50.00	38736	138.00	704	226.00	1520	316.00	1494
51.00	151296	139.00	433	227.00	24000	317.00	272
52.00	7819	140.00	888	228.00	3311	320.00	103
53.00	348	141.00	9408	229.00	4563	321.00	882
55.00	755	142.00	3186	230.00	691	322.00	424
56.00	4473	143.00	1904	231.00	1920	323.00	7824
57.00	10066	144.00	664	232.00	303	324.00	1477
58.00	547	145.00	475	233.00	448	325.00	190
59.00	111	146.00	1633	234.00	1560	326.00	188
60.00	164	147.00	4413	235.00	1679	327.00	1444
61.00	1759	148.00	10596	236.00	1024	328.00	743
62.00	2153	149.00	2303	237.00	1900	329.00	97
63.00	6125	150.00	612	238.00	252	332.00	590
64.00	883	151.00	1360	239.00	942	333.00	759
65.00	2765	152.00	728	240.00	677	334.00	5028
66.00	317	153.00	2923	241.00	1231	335.00	1370
67.00	157	154.00	2190	242.00	2711	336.00	167
68.00	2746	155.00	5079	243.00	3008	339.00	122
69.00	145408	156.00	7633	244.00	38520	340.00	144
70.00	809	157.00	1609	245.00	5292	341.00	1027
71.00	66	158.00	1859	246.00	8553	342.00	229
73.00	1006	159.00	1245	247.00	1526	346.00	1715
74.00	14753	160.00	2882	248.00	404	347.00	313
75.00	23636	161.00	4229	249.00	1334	348.00	34
76.00	7856	162.00	1249	250.00	237	351.00	95
77.00	162688	163.00	420	251.00	454	352.00	2254

Date : 20-FEB-2010 12:04

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVHF11DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2001.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y

78.00	11164	164.00	482	252.00	526	353.00	1685
79.00	11063	165.00	3411	253.00	1014	354.00	2374
80.00	8318	166.00	2886	254.00	246	355.00	442
81.00	11755	167.00	18128	255.00	208576	359.00	131
82.00	2698	168.00	8989	256.00	29864	361.00	41

83.00	2563	169.00	1693	257.00	2335	365.00	9500
84.00	292	170.00	689	258.00	11889	366.00	1267
85.00	2016	171.00	811	259.00	1946	367.00	41
86.00	3161	172.00	1827	260.00	327	370.00	143
87.00	1709	173.00	1985	261.00	323	371.00	544

88.00	611	174.00	3761	262.00	91	372.00	4073
89.00	242	175.00	7387	263.00	105	373.00	967
91.00	2732	176.00	2369	264.00	245	374.00	36
92.00	2924	177.00	3691	265.00	4904	377.00	41
93.00	18696	178.00	1264	266.00	660	383.00	924

94.00	1352	179.00	13814	267.00	81	384.00	271
95.00	383	180.00	9564	268.00	48	385.00	83
96.00	815	181.00	4172	269.00	46	390.00	495
97.00	300	182.00	737	270.00	217	391.00	390
98.00	14288	183.00	389	271.00	458	392.00	149

99.00	11396	184.00	1158	272.00	683	401.00	249
100.00	988	185.00	6644	273.00	6165	402.00	1263
101.00	6504	186.00	53976	274.00	16175	403.00	1933
102.00	385	187.00	15120	275.00	87720	404.00	757
103.00	2407	188.00	1626	276.00	11586	405.00	99

104.00	4126	189.00	3449	277.00	8344	415.00	104
105.00	3848	190.00	678	278.00	1175	421.00	1862
106.00	1319	191.00	1548	279.00	270	422.00	1706
107.00	51688	192.00	4531	280.00	40	423.00	12077
108.00	8074	193.00	4921	281.00	26	424.00	2784

109.00	1707	194.00	960	282.00	153	425.00	383
110.00	94192	195.00	585	283.00	954	426.00	35
111.00	14368	196.00	10955	284.00	633	429.00	49
112.00	1773	198.00	361024	285.00	1386	432.00	53
113.00	552	199.00	24520	286.00	247	433.00	99

Date : 20-FEB-2010 12:04

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBH100207-01150 PPH11SVMF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2001.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	137	200.00	2077	288.00	81	434.00	73
115.00	242	201.00	1683	289.00	256	435.00	109
116.00	2914	203.00	2421	290.00	281	436.00	130
117.00	40800	204.00	13892	291.00	185	437.00	215
118.00	3050	205.00	22864	292.00	403	438.00	351
119.00	350	206.00	94712	293.00	1882	439.00	245
120.00	773	207.00	12092	294.00	526	441.00	32832
121.00	290	208.00	3333	295.00	44	442.00	222592
122.00	3559	209.00	1153	296.00	25992	443.00	42896
123.00	5240	210.00	891	297.00	3524	444.00	3896
124.00	2349	211.00	3877	298.00	302	445.00	219
125.00	2177	213.00	294	301.00	317		
127.00	179968	214.00	128	302.00	514		
128.00	13270	215.00	1136	303.00	3030		

Data File: /chem/MSD8.i/s022010.b/s8b2013.d

Page 1

Date : 21-FEB-2010 08:35

Client ID: DFTPP

Instrument: MSD8.i

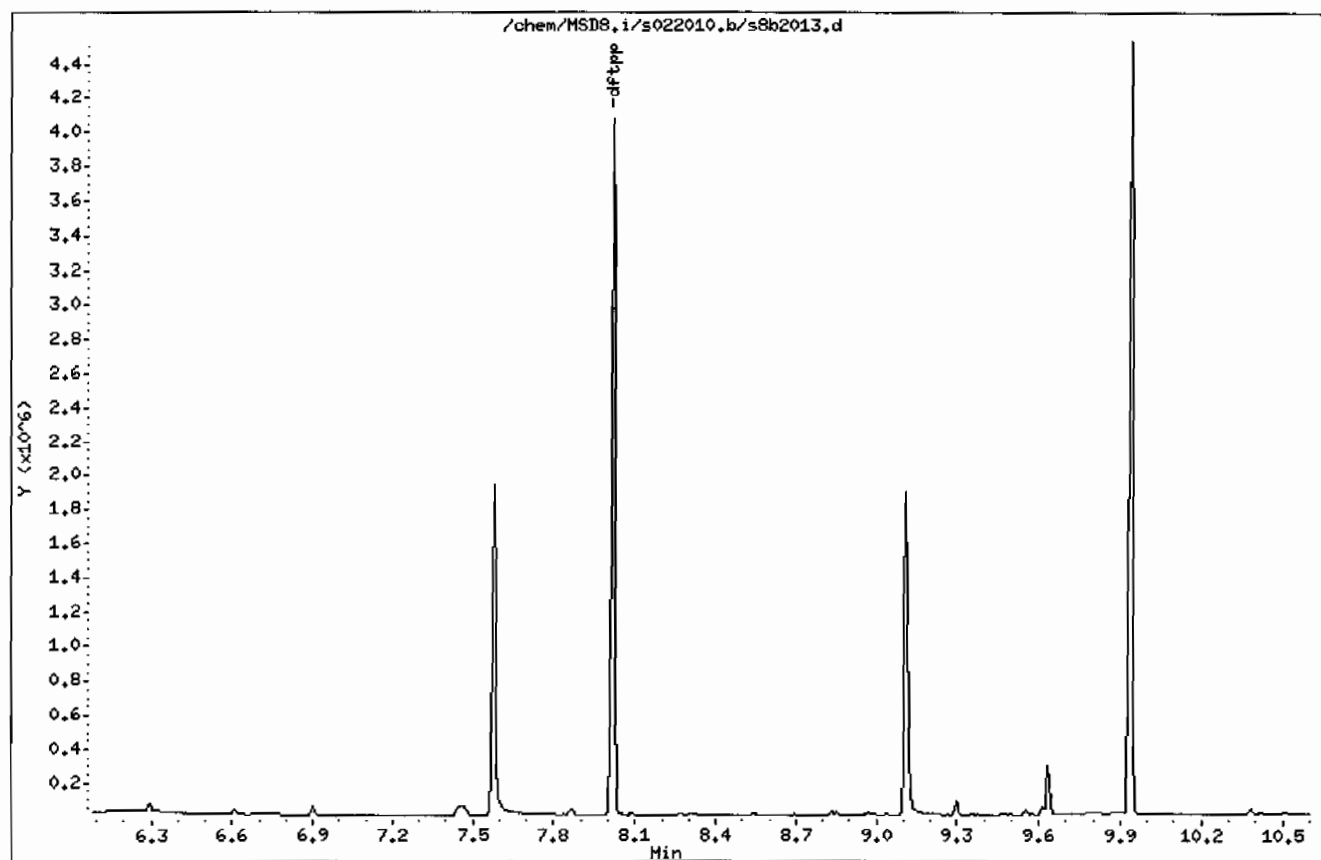
Sample Info: IWBH100207-01/50 PPM11SVMF111DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20



Date : 21-FEB-2010 08:35

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPM11SVHF111DFTPP

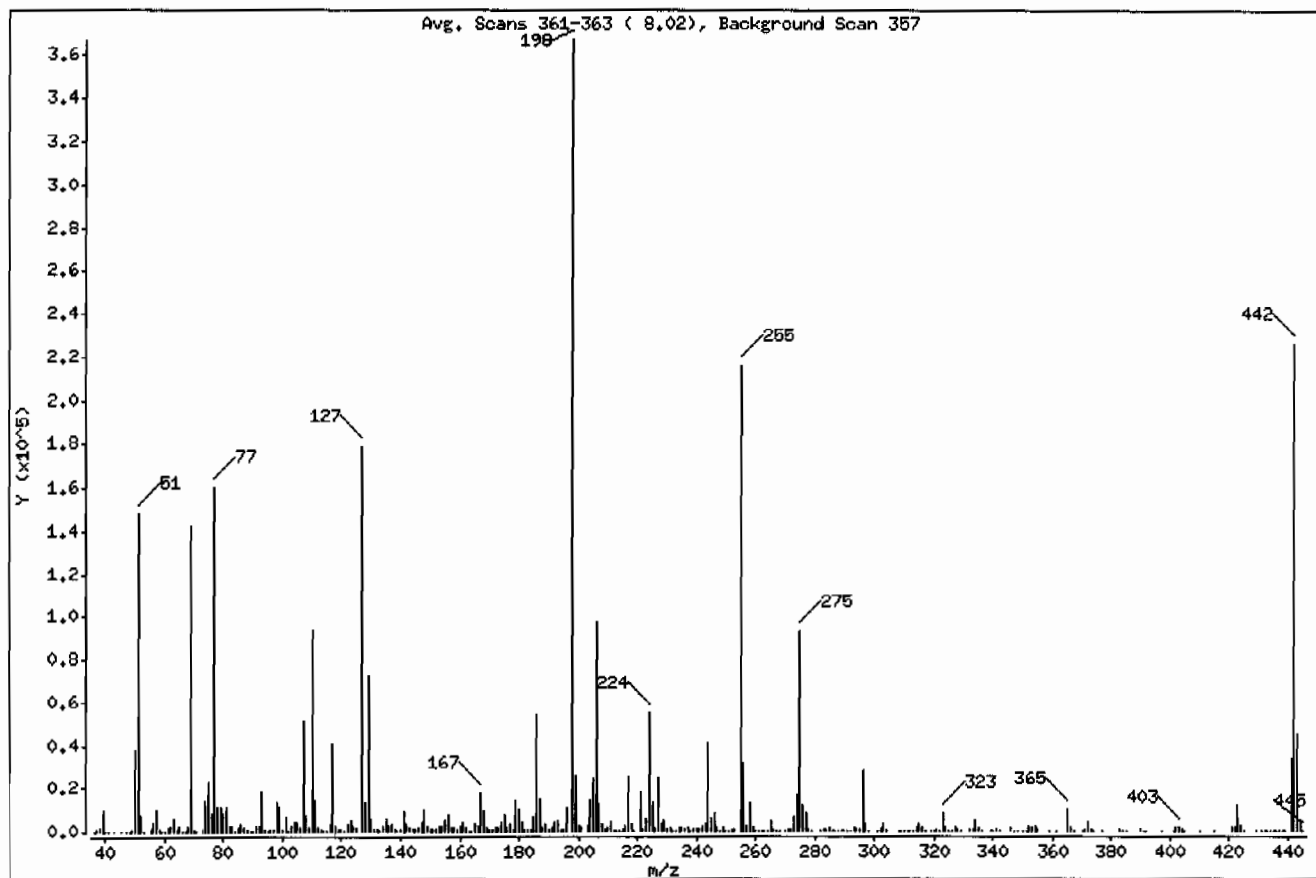
Volume Injected (uL): 1.0

Operator: nag1

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	40.53
68	Less than 2.00% of mass 69	0.71 (1.84)
69	Mass 69 relative abundance	38.91
70	Less than 2.00% of mass 69	0.22 (0.56)
127	40.00 - 60.00% of mass 198	48.75
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	25.27
365	Greater than 1.00% of mass 198	2.78
441	Present, but less than mass 443	9.31
442	Greater than 40.00% of mass 198	61.67
443	17.00 - 23.00% of mass 442	12.16 (19.71)

Date : 21-FEB-2010 08:35

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBH100207-01150 PPH11SVHF11DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2013.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	56	127.00	178624	214.00	46	309.00	256
37.00	622	128.00	13701	215.00	1055	310.00	391
38.00	1670	129.00	72120	216.00	2351	311.00	40
39.00	10227	130.00	6084	217.00	25672	312.00	66
40.00	276	131.00	1249	218.00	3337	313.00	215
41.00	148	132.00	676	219.00	394	314.00	1282
43.00	81	133.00	345	221.00	17360	315.00	2979
45.00	175	134.00	2137	222.00	784	316.00	1571
47.00	75	135.00	5764	223.00	5854	317.00	345
48.00	135	136.00	2291	224.00	54384	319.00	39
49.00	1152	137.00	3163	225.00	13504	320.00	89
50.00	38328	138.00	613	226.00	1516	321.00	844
51.00	148480	139.00	305	227.00	24384	322.00	237
52.00	7983	140.00	874	228.00	3450	323.00	8074
53.00	379	141.00	9200	229.00	5126	324.00	1548
55.00	654	142.00	3293	230.00	654	325.00	173
56.00	4225	143.00	2051	231.00	1887	326.00	144
57.00	9800	144.00	620	232.00	354	327.00	1551
58.00	460	145.00	627	233.00	399	328.00	753
59.00	146	146.00	1802	234.00	1541	329.00	186
60.00	207	147.00	4607	235.00	1773	332.00	625
61.00	1930	148.00	10337	236.00	1054	333.00	892
62.00	2234	149.00	2168	237.00	1872	334.00	4922
63.00	5775	150.00	592	238.00	323	335.00	1472
64.00	828	151.00	1245	239.00	1019	336.00	124
65.00	2791	152.00	804	240.00	727	339.00	168
66.00	273	153.00	2889	241.00	1258	340.00	43
67.00	294	154.00	2254	242.00	2657	341.00	971
68.00	2618	155.00	4976	243.00	3024	342.00	281
69.00	142528	156.00	7917	244.00	40320	346.00	1742
70.00	801	157.00	1591	245.00	5613	347.00	411
71.00	110	158.00	1797	246.00	8746	348.00	42
73.00	982	159.00	1200	247.00	1601	350.00	100
74.00	14686	160.00	2833	248.00	402	351.00	114
75.00	23056	161.00	3964	249.00	1347	352.00	2446

Date : 21-FEB-2010 08:35

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IMBN100207-01150 PPM11SVMF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2013.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y

76.00	8112	162.00	1292	250.00	297	353.00	1664
77.00	159808	163.00	370	251.00	407	354.00	2324
78.00	10752	164.00	418	252.00	537	355.00	613
79.00	10806	165.00	3457	253.00	973	359.00	188
80.00	8432	166.00	2678	255.00	216000	361.00	35

81.00	11175	167.00	17744	256.00	30888	365.00	10172
82.00	2848	168.00	9666	257.00	2348	366.00	1571
83.00	2358	169.00	1555	258.00	12794	367.00	123
84.00	380	170.00	598	259.00	1933	370.00	198
85.00	1937	171.00	742	260.00	364	371.00	652

86.00	3300	172.00	1586	261.00	405	372.00	4000
87.00	1567	173.00	2096	262.00	34	373.00	950
88.00	607	174.00	3829	263.00	99	374.00	88
89.00	261	175.00	7675	264.00	325	377.00	56
90.00	99	176.00	2028	265.00	5206	383.00	1037

91.00	2533	177.00	3616	266.00	733	384.00	350
92.00	2877	178.00	1241	267.00	130	385.00	59
93.00	18624	179.00	14050	268.00	1	390.00	434
94.00	1132	180.00	10302	270.00	314	391.00	386
95.00	384	181.00	4359	271.00	454	392.00	247

96.00	852	182.00	801	272.00	611	397.00	36
97.00	507	183.00	425	273.00	6575	401.00	218
98.00	13725	184.00	1104	274.00	16896	402.00	1420
99.00	11316	185.00	7010	275.00	92592	403.00	2003
100.00	984	186.00	53560	276.00	12112	404.00	730

101.00	6416	187.00	15376	277.00	8831	405.00	147
102.00	398	188.00	1621	278.00	1259	410.00	36
103.00	2271	189.00	3344	279.00	291	415.00	89
104.00	4172	190.00	507	282.00	228	421.00	1948
105.00	3955	191.00	1461	283.00	887	422.00	1783

106.00	1360	192.00	4556	284.00	657	423.00	12054
107.00	51416	193.00	5226	285.00	1565	424.00	2758
108.00	7732	194.00	1074	286.00	264	425.00	311
109.00	1415	195.00	648	287.00	35	429.00	89
110.00	93200	196.00	11299	288.00	114	431.00	91

Date : 21-FEB-2010 08:35

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVMF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8b2013.d

Spectrum: Avg. Scans 361-363 (8.02), Background Scan 357

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	14005	198.00	366464	289.00	359	432.00	75
112.00	1777	199.00	25008	290.00	221	433.00	42
113.00	565	200.00	2149	291.00	192	434.00	133
114.00	156	201.00	1762	292.00	407	435.00	174
115.00	309	203.00	2677	293.00	1828	436.00	69
116.00	2977	204.00	14145	294.00	475	437.00	142
117.00	40696	205.00	24104	295.00	609	438.00	145
118.00	2826	206.00	97072	296.00	27600	439.00	257
119.00	441	207.00	12482	297.00	3606	441.00	34104
120.00	684	208.00	3467	298.00	227	442.00	225984
121.00	249	209.00	1206	301.00	394	443.00	44536
122.00	3382	210.00	1778	302.00	459	444.00	4167
123.00	5335	211.00	3877	303.00	3092	445.00	202
124.00	2445	212.00	196	304.00	889		
125.00	2106	213.00	321	308.00	309		

Data File: /chem/MSDB.i/s030110.b/s8c0101.d

Page 1

Date : 01-MAR-2010 12:11

Client ID: DFTPP

Instrument: MSDB.i

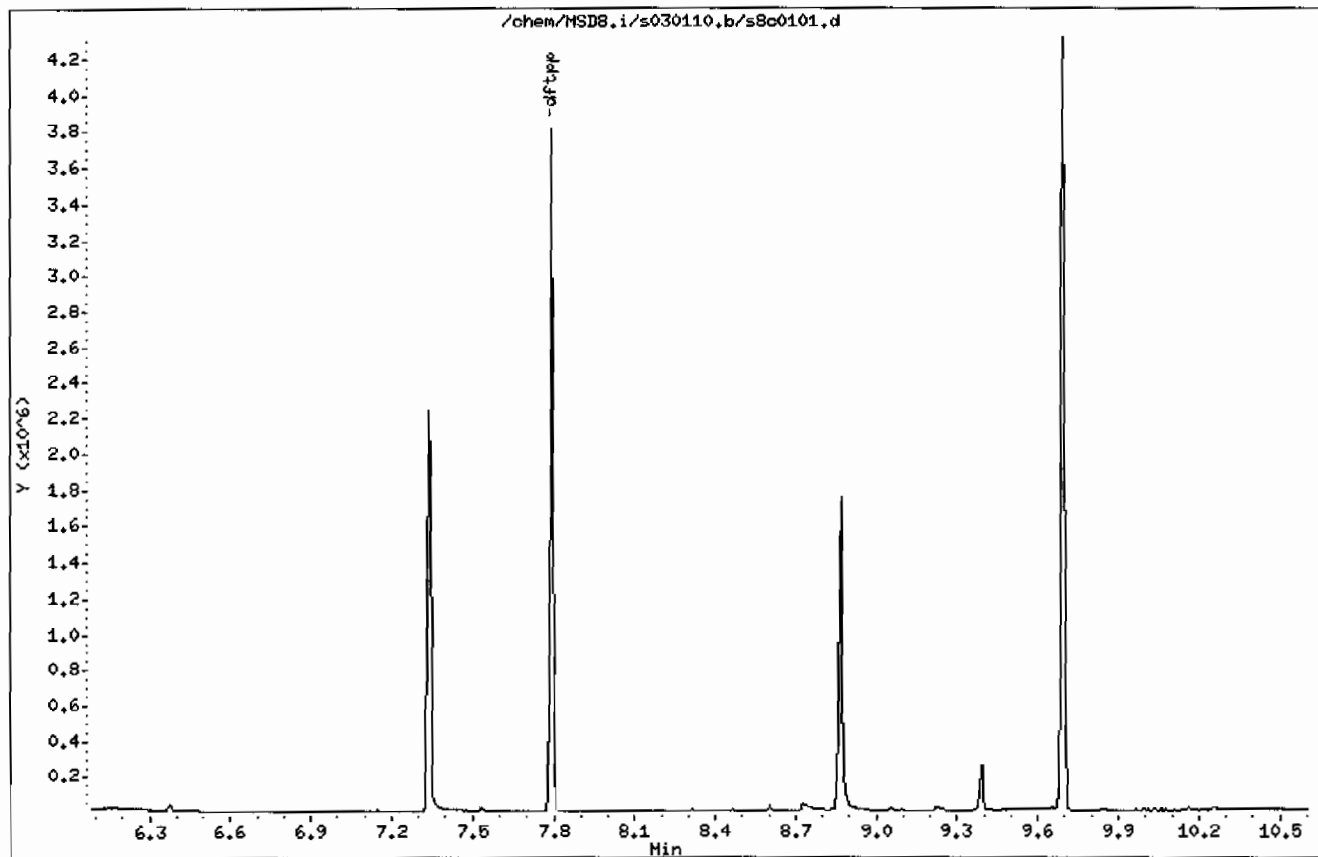
Sample Info: IWBNI00207-01150 PPH11SVHF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20



Date : 01-MAR-2010 12:11

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11ISVMF11IDFTPP

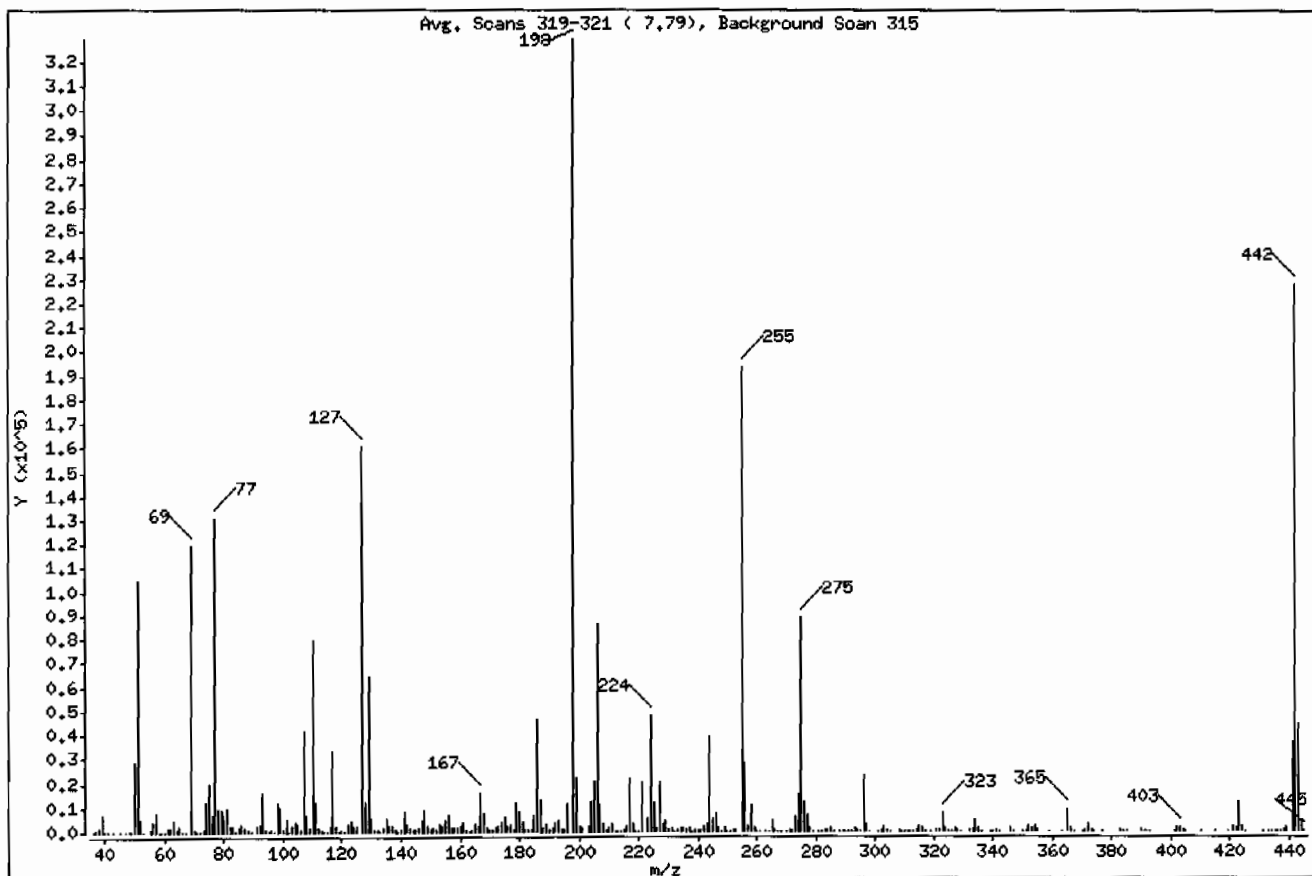
Volume Injected (uL): 1.0

Operator: nag1

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	32.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.25
70	Less than 2.00% of mass 69	0.20 (0.54)
127	40.00 - 60.00% of mass 198	48.74
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	26.96
365	Greater than 1.00% of mass 198	2.83
441	Present, but less than mass 443	11.11
442	Greater than 40.00% of mass 198	69.06
443	17.00 - 23.00% of mass 442	13.38 (19.37)

Date : 01-MAR-2010 12:11

Client ID: DFTTP

Instrument: MSD8.i

Sample Info: INBN100207-01150 PPH11SVHF11IDFTTP

Volume Injected (uL): 1.0

Operator: nagi

Column phase: J & W DB-SMS

Column diameter: 0.20

Data File: s8c0101.d

Spectrum: Avg. Scans 319-321 (7.79), Background Scan 315

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	79	127.00	160256	213.00	238	305.00	121
37.00	442	128.00	12054	214.00	167	308.00	420
38.00	1284	129.00	64040	215.00	944	309.00	205
39.00	7032	130.00	5295	216.00	2035	310.00	321
40.00	227	131.00	1013	217.00	22024	311.00	37
41.00	112	132.00	591	218.00	3038	312.00	47
43.00	153	133.00	308	219.00	299	313.00	223
45.00	258	134.00	1767	220.00	291	314.00	1040
47.00	37	135.00	4940	221.00	20112	315.00	2527
48.00	82	136.00	2100	223.00	5431	316.00	1311
49.00	204	137.00	2536	224.00	48000	317.00	279
50.00	28480	138.00	560	225.00	12404	319.00	42
51.00	105272	139.00	358	226.00	1395	321.00	806
52.00	5610	140.00	730	227.00	20256	322.00	420
53.00	240	141.00	8103	228.00	2862	323.00	7507
55.00	680	142.00	2792	229.00	4271	324.00	1264
56.00	3481	143.00	1768	230.00	622	325.00	128
57.00	7754	144.00	514	231.00	1722	326.00	151
58.00	322	145.00	420	232.00	333	327.00	1265
59.00	109	146.00	1586	233.00	457	328.00	651
60.00	110	147.00	4203	234.00	1233	329.00	136
61.00	1453	148.00	8725	235.00	1381	332.00	559
62.00	1807	149.00	1908	236.00	899	333.00	794
63.00	4780	150.00	545	237.00	1716	334.00	4571
64.00	643	151.00	1409	238.00	248	335.00	1310
65.00	2362	152.00	858	239.00	850	336.00	147
66.00	181	153.00	2677	240.00	546	339.00	115
67.00	136	154.00	2050	241.00	1096	340.00	110
69.00	119224	155.00	4554	242.00	2637	341.00	865
70.00	645	156.00	6582	243.00	3042	342.00	273
71.00	126	157.00	1553	244.00	38440	346.00	1468
72.00	41	158.00	1487	245.00	5239	347.00	271
73.00	1030	159.00	1151	246.00	7199	350.00	37
74.00	12316	160.00	2496	247.00	1637	351.00	141
75.00	19344	161.00	3669	248.00	371	352.00	2225

Date : 01-MAR-2010 12:11

Client ID: DFTTP

Instrument: MSD8.i

Sample Info: IWBH100207-01150 PPH11SVHF11DFTTP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8c0101.d

Spectrum: Avg. Scans 319-321 (7.79), Background Scan 315

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y

76.00	7006	162.00	1070	249.00	1284	383.00	1878
77.00	130448	163.00	311	250.00	323	384.00	2128
78.00	8968	164.00	519	251.00	356	385.00	426
79.00	9321	165.00	3062	252.00	438	389.00	182
80.00	6716	166.00	2584	253.00	1071	363.00	51

81.00	9524	167.00	16001	255.00	192768	365.00	9304
82.00	2371	168.00	7232	256.00	28184	366.00	1434
83.00	2124	169.00	1298	257.00	2137	367.00	102
84.00	289	170.00	603	258.00	10803	370.00	216
85.00	1884	171.00	771	259.00	1634	371.00	576

86.00	2751	172.00	1454	260.00	370	372.00	3399
87.00	1302	173.00	1912	261.00	345	373.00	875
88.00	473	174.00	3500	263.00	133	374.00	91
89.00	289	175.00	6243	264.00	288	377.00	78
91.00	2186	176.00	2136	265.00	4274	383.00	925

92.00	2734	177.00	2826	266.00	642	384.00	243
93.00	15801	178.00	1097	267.00	147	385.00	71
94.00	1070	179.00	12169	268.00	12	390.00	457
95.00	303	180.00	8469	270.00	298	391.00	274
96.00	790	181.00	3838	271.00	398	392.00	209

97.00	298	182.00	588	272.00	574	393.00	34
98.00	12418	183.00	421	273.00	6037	401.00	245
99.00	9617	184.00	990	274.00	15458	402.00	1294
100.00	840	185.00	6452	275.00	88656	403.00	1870
101.00	5626	186.00	46448	276.00	11990	404.00	707

102.00	342	187.00	13165	277.00	6973	405.00	98
103.00	2109	188.00	1441	278.00	1222	410.00	36
104.00	3624	189.00	3003	279.00	242	415.00	49
105.00	3202	190.00	505	281.00	21	419.00	37
106.00	970	191.00	1364	282.00	200	421.00	1938

107.00	41752	192.00	3959	283.00	929	422.00	1744
108.00	6730	193.00	4220	284.00	578	423.00	11763
109.00	1238	194.00	862	285.00	1253	424.00	2559
110.00	79232	196.00	786	286.00	228	425.00	253
111.00	12120	196.00	11124	288.00	77	431.00	84

Date : 01-MAR-2010 12:11

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVHF11DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8c0101.d

Spectrum: Avg. Scans 319-321 (7.79), Background Scan 315

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1463	198.00	328832	289.00	276	433.00	41
113.00	497	199.00	22040	290.00	262	434.00	97
114.00	101	200.00	1936	291.00	177	435.00	189
115.00	283	201.00	1840	292.00	340	436.00	239
116.00	2612	203.00	2430	293.00	1691	437.00	159
117.00	33336	204.00	12371	294.00	378	438.00	490
118.00	2564	205.00	20640	295.00	229	439.00	1175
119.00	366	206.00	86384	296.00	22360	441.00	36552
120.00	563	207.00	11288	297.00	3067	442.00	227072
121.00	285	208.00	3011	298.00	261	443.00	43984
122.00	3162	209.00	881	301.00	340	444.00	4178
123.00	4728	210.00	1499	302.00	417	445.00	253
124.00	2017	211.00	3220	303.00	2645		
125.00	1899	212.00	302	304.00	755		

Data File: /chem/MSD8.i/s030210.b/s8c0201.d

Page 1

Date : 02-MAR-2010 09:18

Client ID: DFTPP

Instrument: MSD8.i

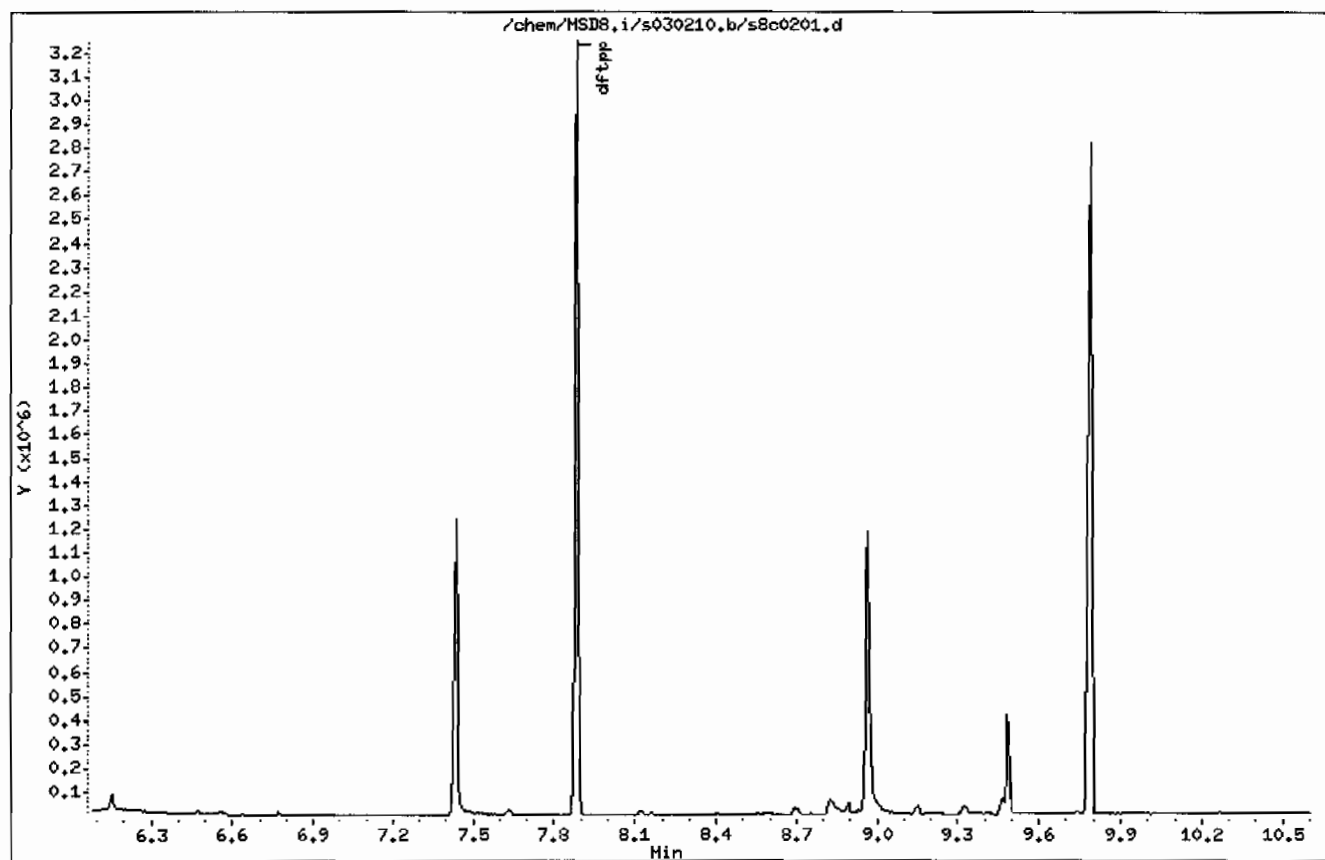
Sample Info: IWBNI00207-01150 PPHI11SVHF11/DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20



Date : 02-MAR-2010 09:18

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPM11|SVHF11|DFTPP

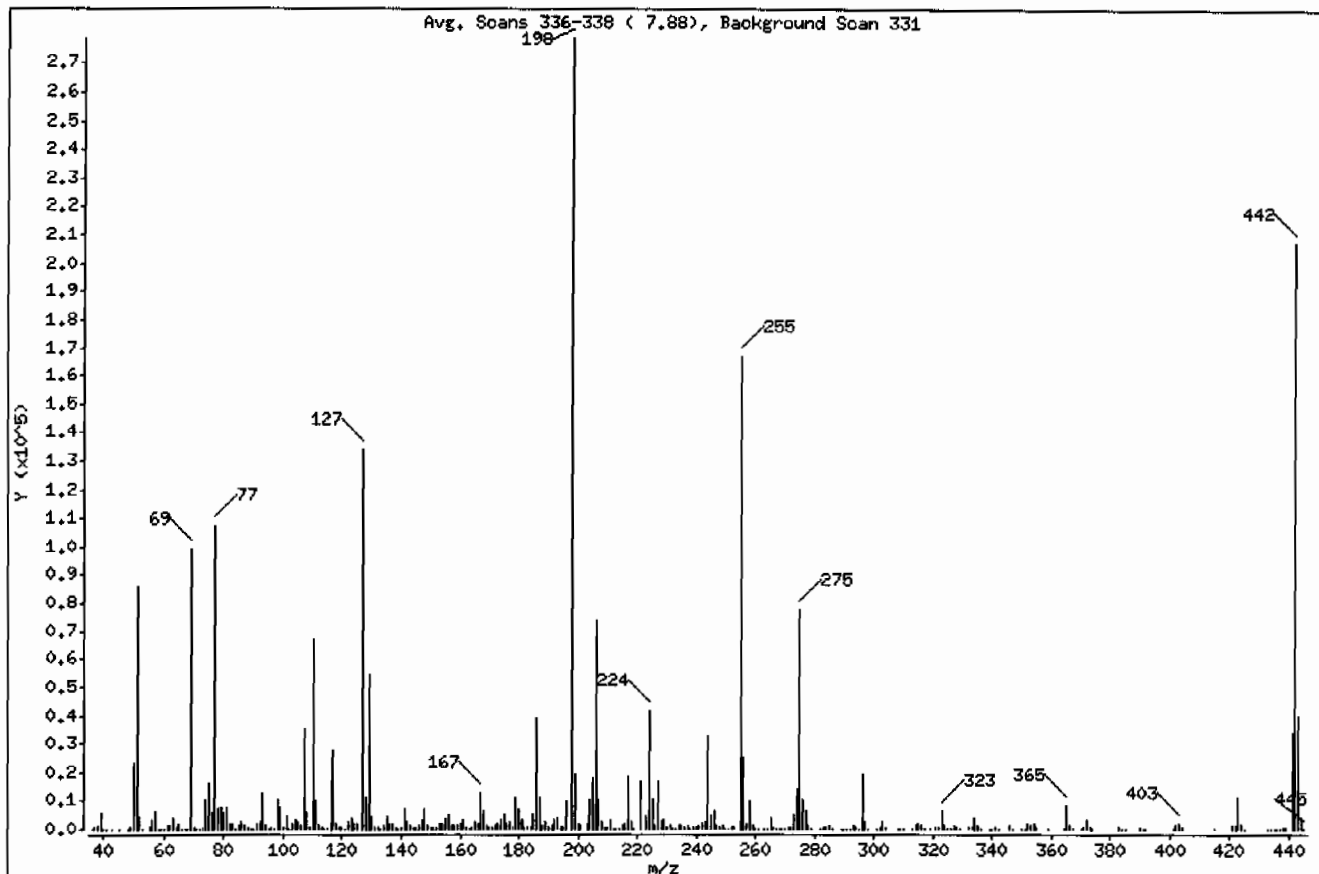
Volume Injected (uL): 1.0

Operator: nag1

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	30.88
68	Less than 2.00% of mass 69	0.09 (0.26)
69	Mass 69 relative abundance	35.62
70	Less than 2.00% of mass 69	0.18 (0.52)
127	40.00 - 60.00% of mass 198	47.98
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	27.85
365	Greater than 1.00% of mass 198	2.99
441	Present, but less than mass 443	12.22
442	Greater than 40.00% of mass 198	74.32
443	17.00 - 23.00% of mass 442	14.22 (19.14)

Date : 02-MAR-2010 09:18

Client ID: DFTPP

Instrument: MSDB.i

Sample Info: IWBH100207-01150 PPM11SVMF11IDFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8c0201.d

Spectrum: Avg. Scans 336-338 (7.88), Background Scan 331

Location of Maximum: 198.00

Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	79	123.00	3986	208.00	2547	298.00	129
37.00	364	124.00	1622	209.00	741	301.00	279
38.00	1114	125.00	1667	210.00	652	302.00	471
39.00	5849	127.00	133632	211.00	2926	303.00	2468
40.00	145	128.00	10624	212.00	313	304.00	616
41.00	107	129.00	54424	213.00	208	308.00	259
43.00	175	130.00	4408	214.00	96	309.00	185
45.00	168	131.00	908	215.00	980	310.00	260
48.00	53	132.00	527	216.00	1697	313.00	185
49.00	523	133.00	236	217.00	18712	314.00	1067
50.00	23312	134.00	1459	218.00	2440	315.00	2156
51.00	86024	135.00	4304	219.00	276	316.00	1170
52.00	4516	136.00	1698	221.00	16800	317.00	197
53.00	241	137.00	2114	223.00	4424	319.00	36
55.00	513	138.00	506	224.00	41928	321.00	674
56.00	3047	139.00	279	225.00	10452	322.00	396
57.00	6599	140.00	714	226.00	1107	323.00	6397
58.00	243	141.00	6980	227.00	16752	324.00	1168
59.00	39	142.00	2286	228.00	2501	325.00	138
60.00	103	143.00	1540	229.00	3499	326.00	176
61.00	1376	144.00	415	230.00	540	327.00	1276
62.00	1456	145.00	402	231.00	1580	328.00	614
63.00	4032	146.00	1164	232.00	229	329.00	113
64.00	543	147.00	3458	233.00	312	332.00	558
65.00	2046	148.00	7355	234.00	1141	333.00	590
66.00	153	149.00	1554	235.00	1164	334.00	4156
67.00	165	150.00	500	236.00	822	335.00	1165
68.00	261	151.00	764	237.00	1492	336.00	96
69.00	99232	152.00	690	238.00	205	339.00	36
70.00	512	153.00	2101	239.00	658	340.00	96
71.00	61	154.00	1689	240.00	657	341.00	724
72.00	33	155.00	3724	241.00	963	342.00	231
73.00	735	156.00	5434	242.00	2222	346.00	1353
74.00	10242	157.00	1239	243.00	2625	347.00	240
75.00	15727	158.00	1290	244.00	32648	350.00	35

Date : 02-MAR-2010 09:18

Client ID: DFTTP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVHF11IDFTTP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8c0201.d

Spectrum: Avg. Scans 336-338 (7.88), Background Scan 331

Location of Maximum: 198.00

Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y

76.00	5549	159.00	965	245.00	4390	351.00	155
77.00	107344	160.00	2018	246.00	6494	352.00	1850
78.00	7156	161.00	3385	247.00	1255	353.00	1394
79.00	7669	162.00	918	248.00	332	354.00	1950
80.00	5592	163.00	315	249.00	1099	355.00	377

81.00	7693	164.00	423	250.00	179	359.00	105
82.00	1908	165.00	2714	251.00	308	364.00	33
83.00	1947	166.00	2117	252.00	351	365.00	8341
84.00	244	167.00	13049	253.00	805	366.00	1194
85.00	1512	168.00	6088	255.00	166784	367.00	43

86.00	2269	169.00	1144	256.00	24704	370.00	165
87.00	1005	170.00	496	257.00	1925	371.00	565
88.00	395	171.00	699	258.00	9432	372.00	3074
89.00	215	172.00	1246	259.00	1561	373.00	852
90.00	90	173.00	1631	260.00	282	374.00	57

91.00	1994	174.00	2887	261.00	225	383.00	886
92.00	2268	175.00	5373	263.00	60	384.00	198
93.00	13081	176.00	1770	264.00	234	385.00	34
94.00	969	177.00	2442	265.00	3524	390.00	400
95.00	312	178.00	936	266.00	495	391.00	293

96.00	577	179.00	10754	267.00	81	392.00	212
97.00	225	180.00	6847	268.00	52	401.00	151
98.00	10042	181.00	3341	269.00	70	402.00	1068
99.00	7825	182.00	533	270.00	199	403.00	1752
100.00	720	183.00	362	271.00	366	404.00	638

101.00	4256	184.00	839	272.00	532	415.00	63
102.00	257	185.00	5340	273.00	5318	421.00	1450
103.00	1741	186.00	39208	274.00	13807	422.00	1574
104.00	3035	187.00	10900	275.00	77576	423.00	11021
105.00	2807	188.00	1151	276.00	10392	424.00	2154

106.00	1026	189.00	2397	277.00	6356	425.00	223
107.00	35368	190.00	439	278.00	1047	433.00	46
108.00	5689	191.00	1217	279.00	243	434.00	87
109.00	927	192.00	3209	282.00	202	435.00	137
110.00	67200	193.00	3749	283.00	729	436.00	125

Date : 02-MAR-2010 09:18

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVMF111DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0,20

Data File: s8c0201.d

Spectrum: Avg. Scans 336-338 (7,88), Background Scan 331

Location of Maximum: 198,00

Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111,00	10037	194,00	827	284,00	537	437,00	253
112,00	1212	195,00	537	285,00	1139	438,00	527
113,00	373	196,00	9552	286,00	193	439,00	453
114,00	40	198,00	278592	289,00	287	441,00	34056
115,00	248	199,00	19056	290,00	248	442,00	207040
116,00	2209	200,00	1631	291,00	106	443,00	39632
117,00	27632	201,00	1636	292,00	306	444,00	3693
118,00	2108	203,00	1979	293,00	1356	445,00	194
119,00	328	204,00	10366	294,00	355		
120,00	477	205,00	17952	295,00	128		
121,00	193	206,00	73824	296,00	18936		
122,00	2634	207,00	10196	297,00	2737		

Data File: /chem/HSD8.i/s030310,b/s8c0307,d

Page 1

Date : 03-MAR-2010 13:25

Client ID: DFTPP

Instrument: HSD8.i

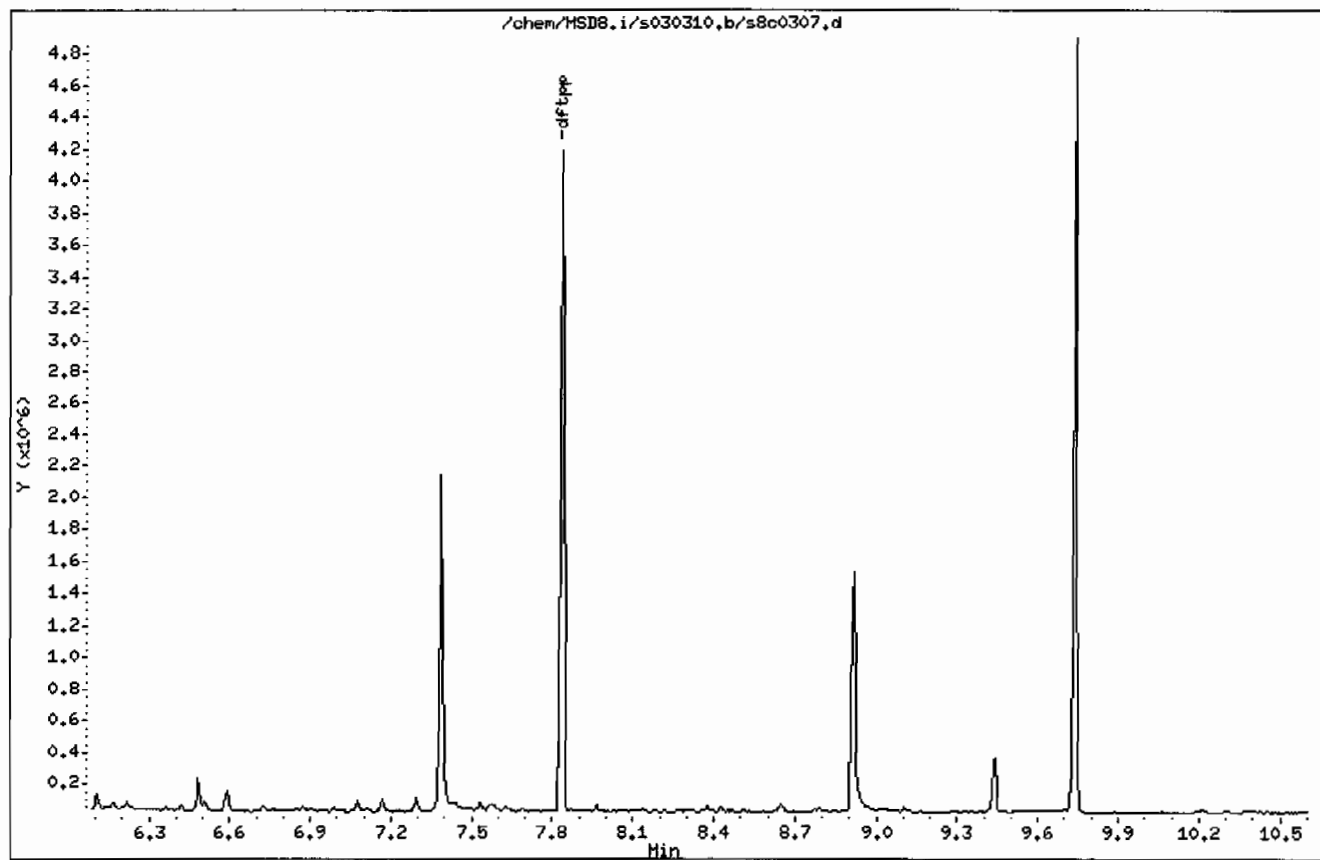
Sample Info: IMBN100207-01150 PPH11SVNF111DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20



Date : 03-MAR-2010 13:25

Client ID: DFTPP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVHF111DFTPP

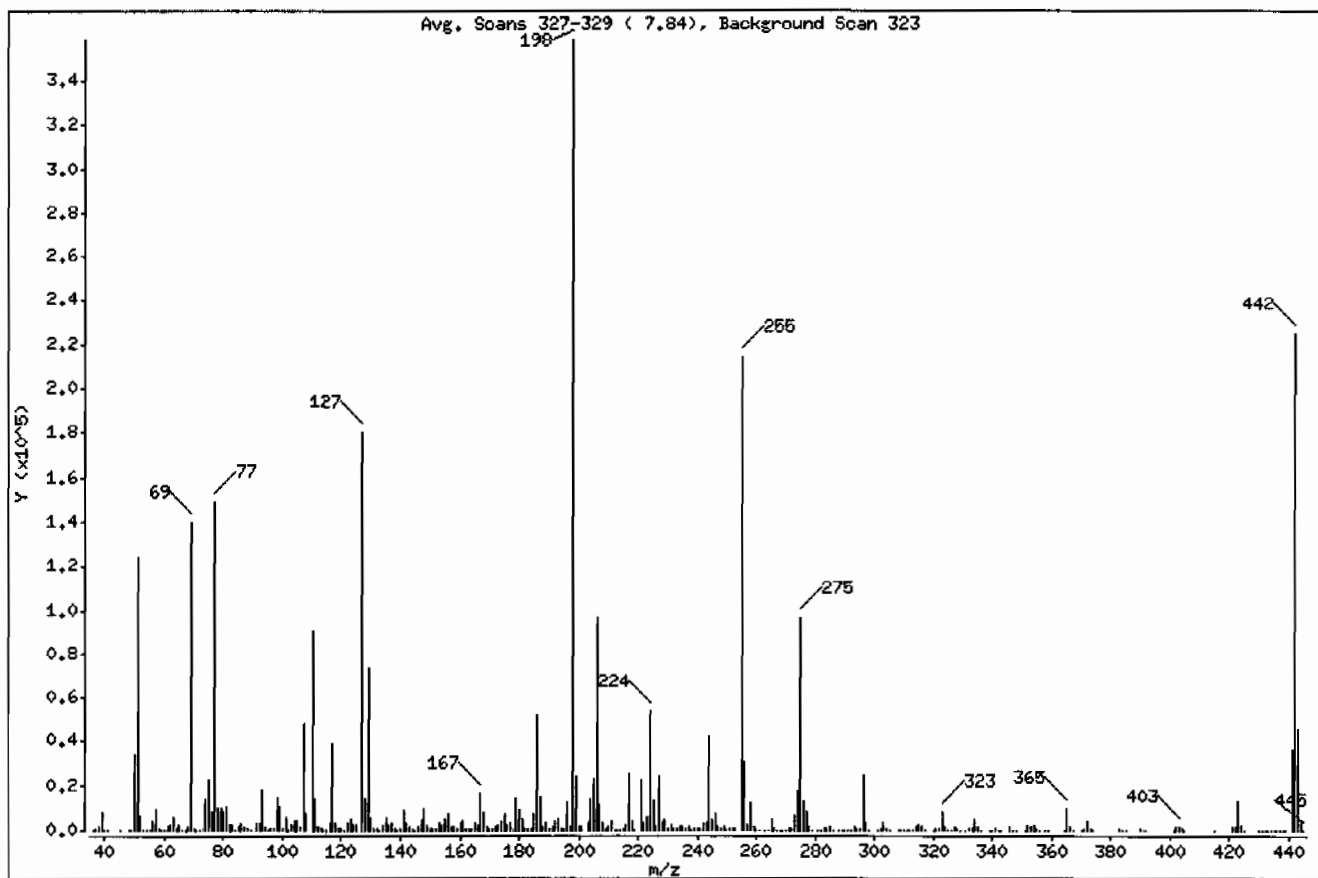
Volume Injected (uL): 1.0

Operator: nag1

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	34.63
68	Less than 2.00% of mass 69	0.51 (1.30)
69	Mass 69 relative abundance	38.99
70	Less than 2.00% of mass 69	0.15 (0.40)
127	40.00 - 60.00% of mass 198	50.24
197	Less than 1.00% of mass 198	0.35
199	5.00 - 9.00% of mass 198	6.59
275	10.00 - 30.00% of mass 198	26.90
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	10.04
442	Greater than 40.00% of mass 198	62.84
443	17.00 - 23.00% of mass 442	12.54 (19.96)

Date : 03-MAR-2010 13:25

Client ID: DFTTP

Instrument: MSDB.i

Sample Info: INBN100207-01150 PPH11SVHF11DFTTP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-SMS

Column diameter: 0.20

Data File: s8c0307.d

Spectrum: Avg. Scans 327-329 (7.84), Background Scan 323

Location of Maximum: 198.00

Number of points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	52	129.00	72912	215.00	1173	309.00	266
37.00	567	130.00	6055	216.00	2083	310.00	278
38.00	1435	131.00	1009	217.00	25424	311.00	45
39.00	7936	132.00	604	218.00	3753	312.00	79
40.00	262	133.00	281	219.00	356	313.00	312
41.00	133	134.00	2128	221.00	22424	314.00	1239
45.00	363	135.00	5446	222.00	2896	315.00	2581
48.00	46	136.00	2429	223.00	6126	316.00	1574
49.00	267	137.00	2907	224.00	53816	317.00	199
50.00	33496	138.00	496	225.00	13464	320.00	114
51.00	124008	139.00	30	226.00	1593	321.00	748
52.00	6493	140.00	859	227.00	23496	322.00	501
53.00	231	141.00	9265	228.00	3213	323.00	8262
54.00	4	142.00	2955	229.00	4582	324.00	1485
55.00	411	143.00	1977	230.00	621	325.00	174
56.00	3944	144.00	629	231.00	2275	326.00	202
57.00	9105	145.00	409	232.00	448	327.00	1417
58.00	517	146.00	1511	233.00	434	328.00	951
59.00	232	147.00	4314	234.00	1447	329.00	200
60.00	245	148.00	10094	235.00	1558	331.00	50
61.00	1803	149.00	2143	236.00	1062	332.00	651
62.00	2159	150.00	733	237.00	1770	333.00	819
63.00	5767	151.00	1195	238.00	360	334.00	4884
64.00	961	152.00	932	239.00	1063	335.00	1426
65.00	2604	153.00	2912	240.00	674	336.00	136
66.00	180	154.00	2120	241.00	1230	339.00	95
67.00	228	155.00	5142	242.00	3062	340.00	152
68.00	1815	156.00	7726	243.00	3169	341.00	937
69.00	139584	157.00	1742	244.00	41984	342.00	290
70.00	554	158.00	1784	245.00	5292	343.00	46
71.00	85	159.00	1225	246.00	7792	346.00	1624
72.00	167	160.00	2999	247.00	1595	347.00	322
73.00	1115	161.00	4172	248.00	474	348.00	51
74.00	14075	162.00	1193	249.00	1446	351.00	128
75.00	22272	163.00	615	250.00	296	352.00	2154

Date : 03-MAR-2010 13:25

Client ID: DFTPP

Instrument: HSD8.i

Sample Info: IWBH100207-01150 PPM11|SVMF11|DFTPP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s8c0307.d

Spectrum: Avg. Scans 327-329 (7.84), Background Scan 323

Location of Maximum: 198.00

Number of points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y

76.00	8086	164.00	658	251.00	447	353.00	1707
77.00	148736	165.00	3314	252.00	451	354.00	2280
78.00	9964	166.00	2607	253.00	1081	355.00	528
79.00	10031	167.00	16304	255.00	214400	356.00	38
80.00	8005	168.00	7835	256.00	30776	358.00	56

81.00	10730	169.00	1575	257.00	2600	359.00	155
82.00	2601	170.00	746	258.00	12333	364.00	92
83.00	2563	171.00	736	259.00	1741	365.00	10291
84.00	269	172.00	1686	260.00	390	366.00	1655
85.00	2014	173.00	2223	261.00	381	367.00	76

86.00	3502	174.00	4106	263.00	109	370.00	260
87.00	1594	175.00	7298	264.00	265	371.00	624
88.00	528	176.00	2247	265.00	5170	372.00	3782
89.00	163	177.00	3029	266.00	521	373.00	941
91.00	2973	178.00	1072	267.00	160	374.00	166

92.00	3022	179.00	13875	268.00	168	383.00	1082
93.00	18360	180.00	9271	269.00	56	384.00	351
94.00	1361	181.00	4582	270.00	377	385.00	39
95.00	161	182.00	876	271.00	499	390.00	467
96.00	754	183.00	517	272.00	699	391.00	329

97.00	549	184.00	1222	273.00	6181	392.00	322
98.00	14414	185.00	7156	274.00	16896	401.00	186
99.00	10872	186.00	51608	275.00	96336	402.00	1299
100.00	995	187.00	14688	276.00	13229	403.00	2057
101.00	5811	188.00	1508	277.00	8084	404.00	634

102.00	407	189.00	3277	278.00	1322	405.00	111
103.00	2481	190.00	703	279.00	351	415.00	86
104.00	4333	191.00	1482	281.00	146	421.00	1803
105.00	3746	192.00	4299	282.00	264	422.00	1778
106.00	1493	193.00	4654	283.00	942	423.00	12992

107.00	47536	194.00	1151	284.00	682	424.00	2611
108.00	7419	195.00	883	285.00	1363	425.00	292
110.00	90168	196.00	12235	286.00	298	430.00	134
111.00	13881	197.00	1250	288.00	48	431.00	81
112.00	1636	198.00	358144	289.00	273	432.00	106

Date : 03-MAR-2010 13:25

Client ID: DFTFP

Instrument: MSD8.i

Sample Info: IWBNI00207-01150 PPH11SVHF111DFTFP

Volume Injected (uL): 1.0

Operator: nag1

Column phase: J & W DB-5MS

Column diameter: 0.20

Data File: s800307.d

Spectrum: Avg. Scans 327-329 (7.84), Background Scan 323

Location of Maximum: 198.00

Number of points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y

113.00	481	199.00	23600	290.00	292	433.00	60
114.00	199	200.00	2034	291.00	161	434.00	118
115.00	173	201.00	1949	292.00	374	435.00	272
116.00	3050	203.00	3009	293.00	1744	436.00	328
117.00	38304	204.00	13814	294.00	424	437.00	343

118.00	2919	205.00	23192	295.00	533	438.00	258
119.00	459	206.00	96248	296.00	24512	439.00	404
120.00	766	207.00	11937	297.00	3396	441.00	35944
121.00	332	208.00	3335	298.00	226	442.00	225024
122.00	3616	209.00	1136	301.00	385	443.00	44920

123.00	4839	210.00	1687	302.00	432	444.00	4143
124.00	2446	211.00	3728	303.00	3017	445.00	198
125.00	2127	212.00	319	304.00	814		
127.00	179904	213.00	303	305.00	54		
128.00	14286	214.00	136	308.00	343		

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

SDG Number: 10-1982
Lab Sample ID: 1202053894
Client Sample: QC for batch 957826
Client ID: MB for batch 957826
Batch ID: 957838
Run Date: 03/01/2010 14:03
Prep Date: 02/25/2010 21:57
Data File: s8c0105-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	333	ug/kg	66.7	333
108-95-2	Phenol	U	333	ug/kg	66.7	333
95-57-8	2-Chlorophenol	U	333	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene	U	333	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine	U	333	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol	U	333	ug/kg	66.7	333
83-32-9	Acenaphthene	U	33.3	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene	U	333	ug/kg	33.3	333
100-02-7	4-Nitrophenol	U	333	ug/kg	110	333
87-86-5	Pentachlorophenol	U	333	ug/kg	83.3	333
129-00-0	Pyrene	U	33.3	ug/kg	10.0	33.3
110-86-1	Pyridine	U	333	ug/kg	66.7	333
62-53-3	Aniline	U	333	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether	U	333	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene	U	333	ug/kg	66.7	333
100-51-6	Benzyl alcohol	U	333	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene	U	333	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether	U	333	ug/kg	66.7	333
95-48-7	o-Cresol	U	333	ug/kg	66.7	333
65794-96-9	m,p-Cresols	U	333	ug/kg	100	333
67-72-1	Hexachloroethane	U	333	ug/kg	66.7	333
98-95-3	Nitrobenzene	U	333	ug/kg	66.7	333
78-59-1	Isophorone	U	333	ug/kg	66.7	333
88-75-5	2-Nitrophenol	U	333	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol	U	333	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane	U	333	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol	U	333	ug/kg	66.7	333
65-85-0	Benzoic acid	U	667	ug/kg	167	667
91-20-3	Naphthalene	U	33.3	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline	U	333	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene	U	333	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene	U	33.3	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene	U	333	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol	U	333	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol	U	333	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene	U	33.3	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline	U	333	ug/kg	66.7	333
99-09-2	<i>o</i> -Nitroaniline					
	3-Nitroaniline	U	333	ug/kg	66.7	333

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

SDG Number: 10-1982
Lab Sample ID: 1202053894
Client Sample: QC for batch 957826
Client ID: MB for batch 957826
Batch ID: 957838
Run Date: 03/01/2010 14:03
Prep Date: 02/25/2010 21:57
Data File: s8c0105-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD8.I
Analyst: NAG1
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<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
	1,2-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	Flt	Qual
	Unknown Aldol Condensate	2.94	359	ug/kg		JA

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Data file : /chem/MSD8.i/s030110.b/s8c0105-2.d
 Lab Smp Id: 1202053894 Client Smp ID: SBLK01
 Inj Date : 01-MAR-2010 14:03
 Operator : nag1 Inst ID: MSD8.i
 Smp Info : |1202053894|957838|1|SVM|1|SBLK01
 Misc Info : |MSD8270_S|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Meth Date : 02-Mar-2010 07:06 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.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	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL
							(ng/ul) (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.311	4.316	(1.000)	407887	40.0000	
* 29 Naphthalene-d8	136	5.563	5.573	(1.000)	1530818	40.0000	
* 46 Acenaphthene-d10	164	7.415	7.425	(1.000)	893865	40.0000	
* 67 Phenanthrene-d10	188	9.011	9.016	(1.000)	1594962	40.0000	
* 91 Chrysene-d12	240	11.887	11.901	(1.000)	1442616	40.0000	
* 98 Perylene-d12	264	13.911	13.925	(1.000)	1161684	40.0000	
\$ 3 2-Fluorophenol	112	3.177	3.168	(0.737)	763829	79.3205	2640
\$ 5 Phenol-d5	99	3.939	3.944	(0.914)	878660	73.1651	2440
\$ 20 Nitrobenzene-d5	82	4.834	4.844	(0.869)	410083	37.6844	1260
\$ 39 2-Fluorobiphenyl	172	6.692	6.697	(0.902)	992101	37.7070	1260
\$ 60 2,4,6-Tribromophenol	329	8.258	8.263	(1.114)	251421	85.0892	2840
\$ 81 p-Terphenyl-d14	244	10.725	10.730	(0.902)	1223029	47.0896	1570

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Data file : /chem/MSD8.i/s030110.b/s8c0105-2.d
 Lab Smp Id: 1202053894 Client Smp ID: SBLK01
 Inj Date : 01-MAR-2010 14:03
 Operator : nagl Inst ID: MSD8.i
 Smp Info : |1202053894|957838|1|SVM|1|SBLK01
 Misc Info : |MSD8270_S|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
 Meth Date : 02-Mar-2010 07:06 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.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

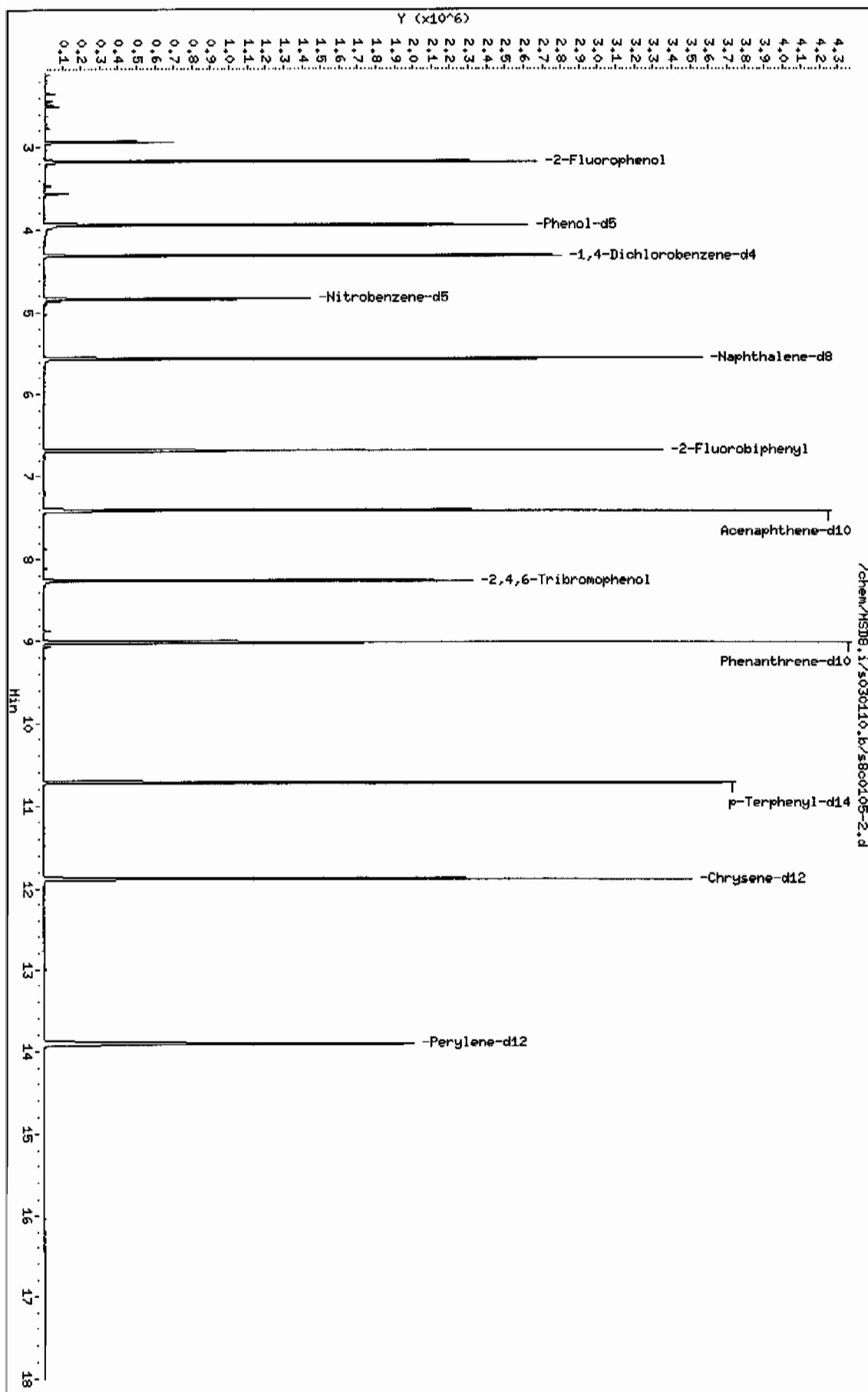
ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	4.311	2251896	40.000

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

Unknown Aldol Condensate				CAS #:			
2.944	606632	10.7754923	359	0		0	10

Data File: /chem/MSDB.i/s030110.b/s8c0105-2.d
 Date: 01-MAR-2010 14:03
 Client ID: SBLK01
 Sample Info: 112020539941957838111SM111SBLK01
 Volume Injected (uL): 0.5
 Column Phase: J&W DB-SMS

Instrument: MSD8.i
 Operator: nag1
 Column diameter: 0.20



Date : 01-MAR-2010 14:03

Client ID: SBLK01

Instrument: HSD8.i

Sample Info: I1202053894195783811SVH11SBLK01

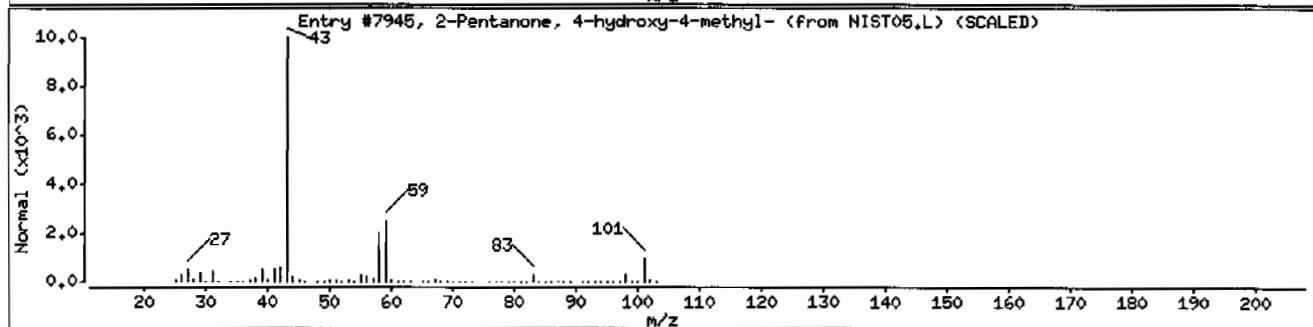
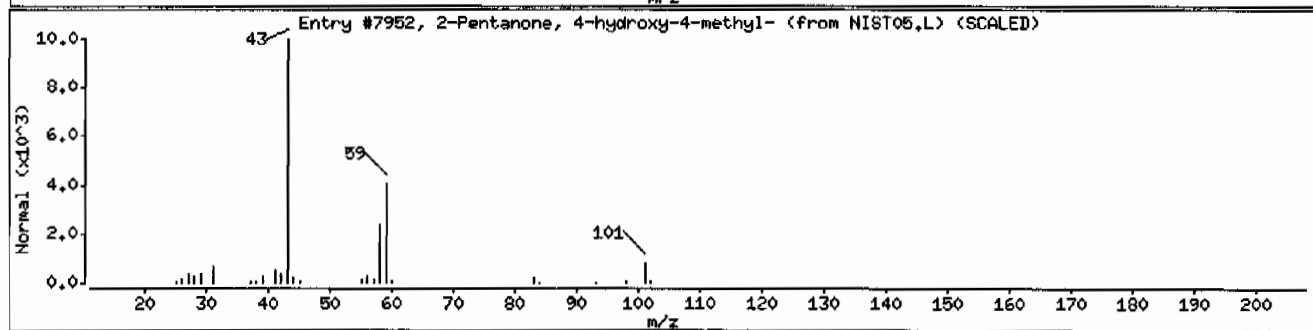
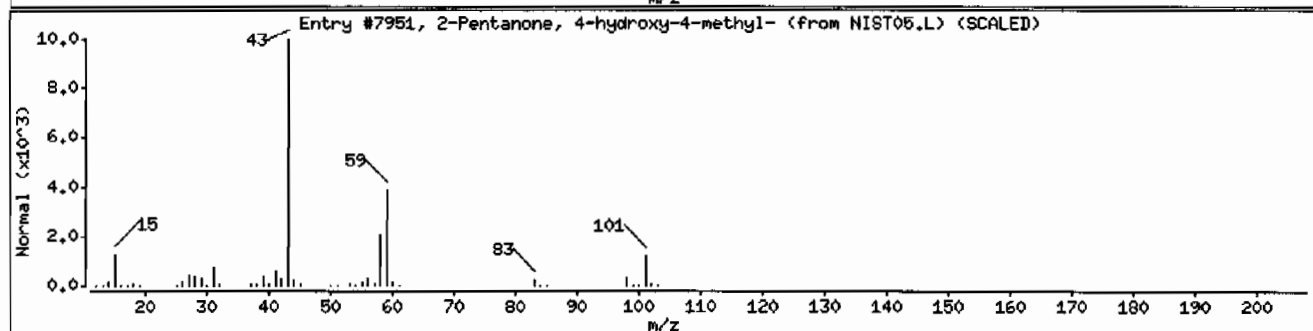
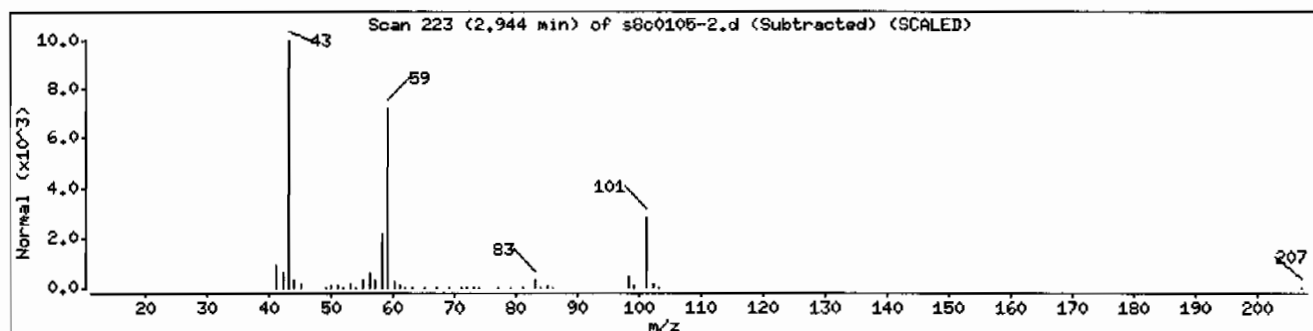
Volume Injected (uL): 0.5

Operator: nag1

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	53	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7945	40	C6H12O2	116



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

SDG Number: 10-1982

Matrix: SOIL

Lab Sample ID: 1202053895

Client Sample: QC for batch 957826

Client: LANL010

Project: QC

Client ID: LCS for batch 957826

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 957838

Inst: MSD8.I

Dilution: 1

Run Date: 03/01/2010 14:31

Analyst: NAG1

Inj. Vol: .5 uL

Prep Date: 02/25/2010 21:57

Aliquot: 30 g

Final Volume: 1 mL

Data File: s8c0106-1.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		844	ug/kg	66.7	333
108-95-2	Phenol		997	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1070	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		995	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		967	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1080	ug/kg	66.7	333
83-32-9	Acenaphthene		950	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1260	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1310	ug/kg	110	333
87-86-5	Pentachlorophenol		1400	ug/kg	83.3	333
129-00-0	Pyrene		950	ug/kg	10.0	33.3
110-86-1	Pyridine		860	ug/kg	66.7	333
62-53-3	Aniline		861	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		837	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		983	ug/kg	66.7	333
100-51-6	Benzyl alcohol		775	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		993	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		662	ug/kg	66.7	333
95-48-7	o-Cresol		966	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1190	ug/kg	100	333
67-72-1	Hexachloroethane		934	ug/kg	66.7	333
98-95-3	Nitrobenzene		1000	ug/kg	66.7	333
78-59-1	Isophorone		980	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1180	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		983	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1040	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1170	ug/kg	66.7	333
65-85-0	Benzoic acid		2520	ug/kg	167	667
91-20-3	Naphthalene		1060	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		904	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1020	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1110	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1050	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1130	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1160	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1040	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1040	ug/kg	66.7	333
99-09-2	3-Nitroaniline		1130	ug/kg	66.7	333

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

SDG Number: 10-1982

Matrix: SOIL

Lab Sample ID: 1202053895

Client Sample: QC for batch 957826

Client: LANL010

Project: QC

Client ID: LCS for batch 957826

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 957838

Inst: MSD8.I

Dilution: 1

Run Date: 03/01/2010 14:31

Analyst: NAG1

Inj. Vol: .5 uL

Prep Date: 02/25/2010 21:57

Aliquot: 30 g

Final Volume: 1 mL

Data File: s8c0106-1.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		1220	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1200	ug/kg	33.3	333
208-96-8	Acenaphthylene		1030	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		1570	ug/kg	127	667
132-64-9	Dibenzofuran		1120	ug/kg	66.7	333
84-66-2	Diethylphthalate		1200	ug/kg	66.7	333
86-73-7	Fluorene		1050	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1120	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1460	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1550	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1340	ug/kg	66.7	333
122-66-7	Azobenzene		1070	ug/kg	66.7	333
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1190	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1130	ug/kg	66.7	333
85-01-8	Phenanthrene		1150	ug/kg	10.0	33.3
120-12-7	Anthracene		1080	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1370	ug/kg	66.7	333
206-44-0	Fluoranthene		1170	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1290	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1080	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		997	ug/kg	100	333
218-01-9	Chrysene		1140	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1350	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1260	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1110	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1110	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1190	ug/kg	10.0	33.3
193-39-5	Indeno(1,2,3-cd)pyrene		1280	ug/kg	10.0	33.3
53-70-3	Dibenzo(a,h)anthracene		1520	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1390	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1040	ug/kg	66.7	333

Data File: /chem/MSD8.i/s030110.b/s8c0106-2.d
Report Date: 02-Mar-2010 07:13

Page 1

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Data file : /chem/MSD8.i/s030110.b/s8c0106-2.d
Lab Smp Id: 1202053895 Client Smp ID: SBLK01LCS
Inj Date : 01-MAR-2010 14:31
Operator : nag1 Inst ID: MSD8.i
Smp Info : |1202053895|957838|1|SVM|1|SBLK01LCS
Misc Info : |MSD8270_S|WBN100227-01
Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
Method : /chem/MSD8.i/s030110.b/MSD8-8270AQA-022010.m
Meth Date : 02-Mar-2010 07:06 nat00999 Quant Type: ISTD
Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1982.sub
Target Version: 3.50
Processing Host: hpc1p1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	4.311	4.316 (1.000)	412008	40.0000	
* 29 Naphthalene-d8	136	5.568	5.573 (1.000)	1550261	40.0000	
* 46 Acenaphthene-d10	164	7.420	7.425 (1.000)	940870	40.0000	
* 67 Phenanthrene-d10	188	9.016	9.016 (1.000)	1727881	40.0000	
* 91 Chrysene-d12	240	11.897	11.901 (1.000)	1765079	40.0000	
* 98 Perylene-d12	264	13.920	13.925 (1.000)	1340583	40.0000	
\$ 3 2-Fluorophenol	112	3.177	3.168 (0.737)	623299	64.0796	2140
\$ 5 Phenol-d5	99	3.944	3.944 (0.915)	724150	59.6961	1990
\$ 20 Nitrobenzene-d5	82	4.839	4.844 (0.869)	329960	29.9412	998
\$ 39 2-Fluorobiphenyl	172	6.692	6.697 (0.902)	824608	29.7753	992
\$ 60 2,4,6-Tribromophenol	329	8.263	8.263 (1.114)	246954	79.4020	2650
\$ 81 p-Terphenyl-d14	244	10.725	10.730 (0.902)	1167947	36.7534	1220

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.958	3.958	(0.918)	374857	29.9243	997
8 2-Chlorophenol	128	4.115	4.116	(0.955)	347580	31.9539	1060
11 1,4-Dichlorobenzene	146	4.325	4.330	(1.003)	397175	29.8416	995
17 N-Nitrosodipropylamine	70	4.687	4.692	(1.087)	232483	29.0156	967 (Q)
28 1,2,4-Trichlorobenzene	180	5.501	5.506	(0.988)	351710	31.1657	1040
33 4-Chloro-3-methylphenol	107	6.139	6.135	(1.103)	293166	32.2864	1080
47 Acenaphthene	154	7.454	7.458	(1.004)	712396	28.4933	950
50 2,4-Dinitrotoluene	165	7.620	7.625	(1.027)	288480	37.7459	1260
52 4-Nitrophenol	139	7.544	7.544	(1.017)	126507	39.3910	1310
65 Pentachlorophenol	266	8.806	8.806	(0.977)	161022	42.1240	1400
79 Pyrene	202	10.563	10.568	(0.888)	1570674	28.5008	950
2 Pyridine	79	2.263	2.235	(0.525)	237597	25.8101	860
4 Aniline	66	4.001	4.006	(0.928)	147836	25.8411	861
7 bis(2-Chloroethyl) ether	63	4.049	4.054	(0.939)	215109	25.1178	837
9 1,3-Dichlorobenzene	146	4.258	4.263	(0.988)	380241	29.4762	982
12 Benzyl alcohol	108	4.425	4.430	(1.026)	158290	23.2643	775
13 1,2-Dichlorobenzene	146	4.468	4.473	(1.036)	368788	29.7885	993
14 bis(2-Chloroisopropyl) ether	45	4.554	4.558	(1.056)	333470	19.8597	662
15 o-Cresol	107	4.525	4.520	(1.050)	252178	28.9866	966
18 m,p-Cresols	107	4.668	4.677	(1.083)	392755	35.6731	1190
19 Hexachloroethane	117	4.796	4.801	(1.113)	140544	28.0214	934
21 Nitrobenzene	77	4.858	4.863	(0.873)	340979	29.9957	1000
22 Isophorone	82	5.092	5.101	(0.914)	615330	29.4018	980
23 2-Nitrophenol	139	5.173	5.177	(0.929)	185079	35.4739	1180
24 2,4-Dimethylphenol	122	5.201	5.206	(0.934)	273586	29.4961	983
25 bis(2-Chloroethoxy) methane	93	5.301	5.306	(0.952)	364892	31.0911	1040
26 2,4-Dichlorophenol	162	5.420	5.420	(0.973)	294209	35.0565	1170
27 Benzoic acid	105	5.349	5.320	(0.961)	404076	75.5505	2520
30 Naphthalene	128	5.587	5.592	(1.003)	1055283	31.6633	1060
31 4-Chloroaniline	127	5.635	5.639	(1.012)	300380	27.1133	904
32 Hexachlorobutadiene	225	5.711	5.716	(1.026)	215105	30.6476	1020
34 2-Methylnaphthalene	142	6.306	6.311	(1.133)	746790	33.3607	1110
36 Hexachlorocyclopentadiene	237	6.468	6.473	(0.872)	183127	31.3591	1040
37 2,4,6-Trichlorophenol	196	6.601	6.606	(0.890)	245078	33.8082	1130
38 2,4,5-Trichlorophenol	196	6.644	6.639	(0.895)	268822	34.9386	1160
40 2-Chloronaphthalene	162	6.825	6.825	(0.920)	719511	31.2573	1040
42 o-Nitroaniline	65	6.930	6.930	(0.934)	201108	31.2129	1040
41 m-Nitroaniline	138	7.368	7.373	(0.993)	166239	33.8527	1130
43 Dimethylphthalate	163	7.125	7.135	(0.960)	962372	36.5018	1220
44 2,6-Dinitrotoluene	165	7.192	7.197	(0.969)	214082	35.9159	1200
45 Acenaphthylene	152	7.268	7.273	(0.979)	1211045	31.0030	1030
48 2,4-Dinitrophenol	184	7.477	7.482	(1.008)	97364	47.0395	1570
49 Dibenzofuran	168	7.635	7.639	(1.029)	1098385	33.4828	1120
51 Diethylphthalate	149	7.882	7.887	(1.062)	997494	36.1494	1200
53 Fluorene	166	8.006	8.011	(1.079)	957474	31.5306	1050
54 4-Chlorophenylphenylether	204	8.001	8.006	(1.078)	490779	33.5593	1120
55 2-Methyl-4,6-dinitrophenol	198	8.058	8.063	(0.894)	153660	43.8031	1460

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
56 p-Nitroaniline		138	8.025	8.025	(1.081)	202324	46.6269	1550
133 Diphenylamine		169	8.130	8.135	(0.902)	875232	40.0851	1340
58 1,2-Diphenylhydrazine		77	8.173	8.177	(0.906)	825967	32.2039	1070
61 4-Bromophenylphenylether		248	8.530	8.535	(0.946)	295096	35.7408	1190
63 Hexachlorobenzene		284	8.597	8.601	(0.954)	290236	33.8204	1130
68 Phenanthrene		178	9.039	9.044	(1.003)	1387847	34.4602	1150
69 Anthracene		178	9.097	9.097	(1.009)	1362962	32.5001	1080
72 Di-n-butylphthalate		149	9.639	9.644	(1.069)	1795818	40.9680	1360
76 Fluoranthene		202	10.316	10.320	(1.144)	1543139	35.0965	1170
85 Butylbenzylphthalate		149	11.254	11.258	(0.946)	743365	38.5740	1280
89 Benzo(a)anthracene		228	11.877	11.882	(0.998)	1499661	32.2865	1080
90 3,3'-Dichlorobenzidine		252	11.844	11.844	(0.996)	327095	29.9137	997
92 Chrysene		228	11.925	11.930	(1.002)	1378592	34.0660	1140
93 bis(2-Ethylhexyl)phthalate		149	11.901	11.906	(1.000)	1088737	40.3698	1340
94 Di-n-octylphthalate		149	12.758	12.763	(0.917)	1556334	37.9272	1260
95 Benzo(b)fluoranthene		252	13.325	13.330	(0.957)	1270511	33.4283	1110
96 Benzo(k)fluoranthene		252	13.373	13.378	(0.961)	1271031	33.2650	1110
97 Benzo(a)pyrene		252	13.830	13.835	(0.993)	1147816	35.8071	1190
99 Indeno(1,2,3-cd)pyrene		276	15.697	15.706	(1.128)	1017106	38.2688	1280
100 Dibenzo(a,h)anthracene		278	15.735	15.744	(1.130)	937364	45.6350	1520
101 Benzo(ghi)perylene		276	16.163	16.173	(1.161)	917491	41.7235	1390
1 N-Methyl-N-nitrosomethylamine		74	2.230	2.206	(0.517)	158811	25.3077	844

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD8.i/s030110.b/s8c0106-2.a

Date : 01-MAR-2010 14:31

Client ID: SBLK01LCS

Sample Info: 11202053895195783811|SVH11|SBLK01LCS

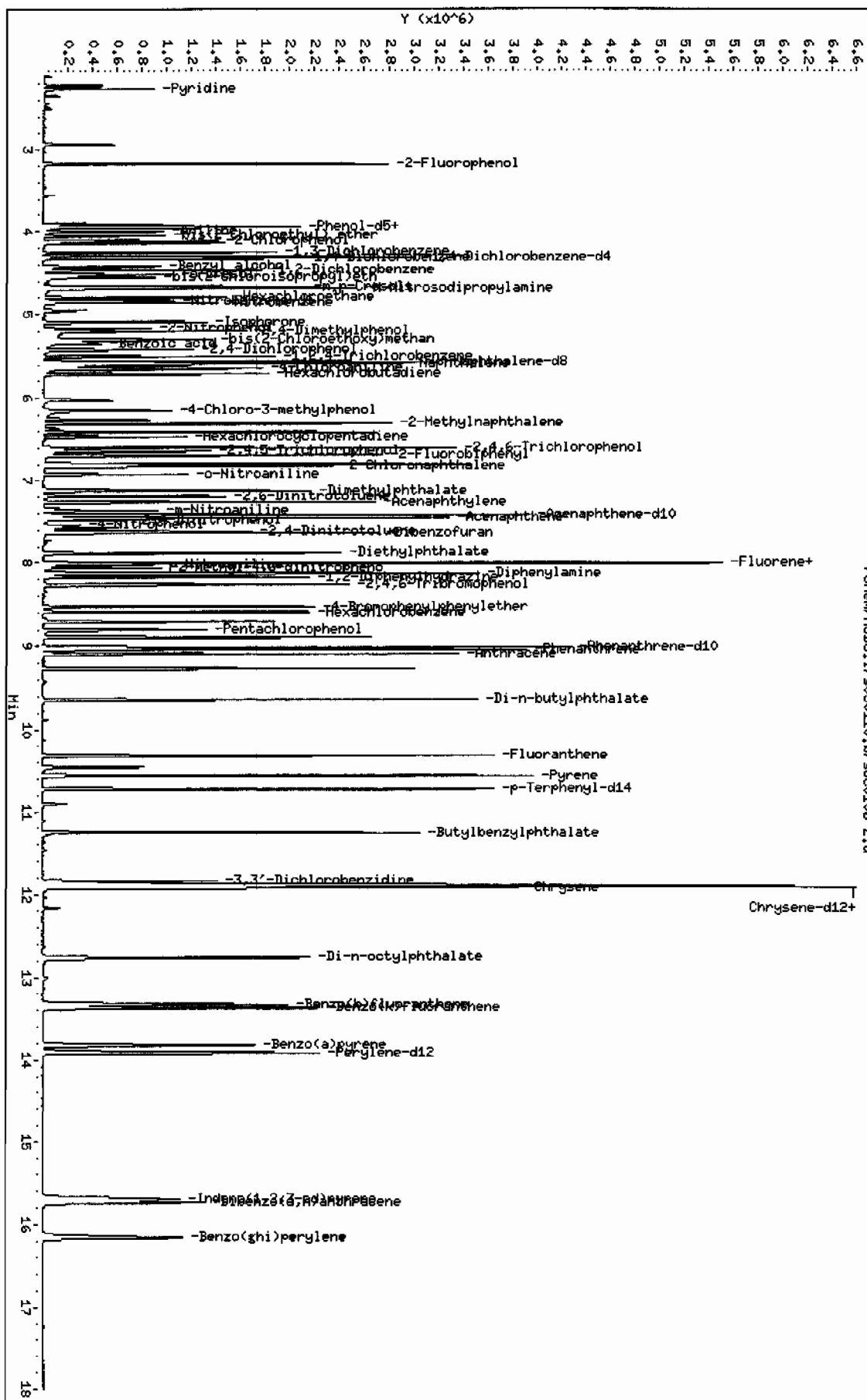
Volume Injected (μL): 0.5

Column phase: J&W DB-5MS

Instrument: MSD8.1

Operator: mag1

Column diameter: 0.20



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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202053896	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 957826	Client: LANL010	Project: QC
Client ID: RE15-10-8317MS	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/02/2010 19:06	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s8c0221.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		950	ug/kg	70.7	354
108-95-2	Phenol		1060	ug/kg	70.7	354
95-57-8	2-Chlorophenol		1210	ug/kg	70.7	354
106-46-7	1,4-Dichlorobenzene		1130	ug/kg	70.7	354
621-64-7	N-Nitrosodipropylamine		1140	ug/kg	70.7	354
59-50-7	4-Chloro-3-methylphenol		1120	ug/kg	70.7	354
83-32-9	Acenaphthene		1050	ug/kg	11.7	35.4
121-14-2	2,4-Dinitrotoluene		1260	ug/kg	35.4	354
100-02-7	4-Nitrophenol	J	300	ug/kg	117	354
87-86-5	Pentachlorophenol		591	ug/kg	88.4	354
129-00-0	Pyrene		1110	ug/kg	10.6	35.4
110-86-1	Pyridine		927	ug/kg	70.7	354
62-53-3	Aniline		1010	ug/kg	106	354
111-44-4	bis(2-Chloroethyl) ether		978	ug/kg	70.7	354
541-73-1	1,3-Dichlorobenzene		1140	ug/kg	70.7	354
100-51-6	Benzyl alcohol	J	315	ug/kg	106	354
95-50-1	1,2-Dichlorobenzene		1140	ug/kg	70.7	354
108-60-1	bis(2-Chloroisopropyl)ether		797	ug/kg	70.7	354
95-48-7	o-Cresol		1110	ug/kg	70.7	354
65794-96-9	m,p-Cresols		1380	ug/kg	106	354
67-72-1	Hexachloroethane		1040	ug/kg	70.7	354
98-95-3	Nitrobenzene		1120	ug/kg	70.7	354
78-59-1	Isophorone		1130	ug/kg	70.7	354
88-75-5	2-Nitrophenol		1260	ug/kg	70.7	354
105-67-9	2,4-Dimethylphenol		764	ug/kg	124	354
111-91-1	bis(2-Chloroethoxy)methane		1180	ug/kg	70.7	354
120-83-2	2,4-Dichlorophenol		1300	ug/kg	70.7	354
65-85-0	Benzoic acid		2210	ug/kg	177	707
91-20-3	Naphthalene		1190	ug/kg	10.6	35.4
106-47-8	4-Chloroaniline		1100	ug/kg	70.7	354
87-68-3	Hexachlorobutadiene		1130	ug/kg	70.7	354
91-57-6	2-Methylnaphthalene		1250	ug/kg	7.07	35.4
77-47-4	Hexachlorocyclopentadiene		774	ug/kg	70.7	354
88-06-2	2,4,6-Trichlorophenol		1050	ug/kg	70.7	354
95-95-4	2,4,5-Trichlorophenol		1180	ug/kg	70.7	354
91-58-7	2-Chloronaphthalene		1170	ug/kg	11.7	35.4
88-74-4	2-Nitroaniline		1130	ug/kg	70.7	354
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline		1180	ug/kg	70.7	354

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202053896	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 957826	Client: LANL010	Project: QC
Client ID: RE15-10-8317MS	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/02/2010 19:06	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s8c0221.d	Column: J&W DB-SMS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1280	ug/kg	70.7	354
606-20-2	2,6-Dinitrotoluene		1250	ug/kg	35.4	354
208-96-8	Acenaphthylene		1130	ug/kg	10.6	35.4
51-28-5	2,4-Dinitrophenol		768	ug/kg	134	707
132-64-9	Dibenzofuran		1210	ug/kg	70.7	354
84-66-2	Diethylphthalate		1260	ug/kg	70.7	354
86-73-7	Fluorene		1120	ug/kg	10.6	35.4
7005-72-3	4-Chlorophenylphenylether		1200	ug/kg	70.7	354
534-52-1	2-Methyl-4,6-dinitrophenol		742	ug/kg	70.7	354
100-01-6	4-Nitroaniline		1480	ug/kg	106	354
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1450	ug/kg	70.7	354
122-66-7	Azobenzene		1190	ug/kg	70.7	354
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1280	ug/kg	70.7	354
118-74-1	Hexachlorobenzene		1190	ug/kg	70.7	354
85-01-8	Phenanthrene		1190	ug/kg	10.6	35.4
120-12-7	Anthracene		1150	ug/kg	7.07	35.4
84-74-2	Di-n-butylphthalate		1390	ug/kg	70.7	354
206-44-0	Fluoranthene		1140	ug/kg	10.6	35.4
85-68-7	Butylbenzylphthalate		1460	ug/kg	70.7	354
56-55-3	Benzo(a)anthracene		1120	ug/kg	10.6	35.4
91-94-1	3,3'-Dichlorobenzidine		1200	ug/kg	106	354
218-01-9	Chrysene		1200	ug/kg	10.6	35.4
117-81-7	bis(2-Ethylhexyl)phthalate		1520	ug/kg	70.7	354
117-84-0	Di-n-octylphthalate		1770	ug/kg	70.7	354
205-99-2	Benzo(b)fluoranthene		1250	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene		1290	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene		1250	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene		982	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene		1310	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene		1090	ug/kg	10.6	35.4
120-82-1	1,2,4-Trichlorobenzene		1170	ug/kg	70.7	354

Data File: /chem/MSD8.i/s030210.b/s8c0221.d
 Report Date: 03-Mar-2010 07:00

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0221.d
 Lab Smp Id: 1202053896 Client Smp ID: RE15-10-8317MS
 Inj Date : 02-MAR-2010 19:06
 Operator : nagl Inst ID: MSD8.i
 Smp Info : |1202053896|957838|1|SVM|1|MS
 Misc Info : |MSD5C70D_S|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
 Meth Date : 02-Mar-2010 20:07 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 21 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.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	30.19000	weight of sample
M	6.34340	% 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	4.401	4.401	(1.000)	442998	40.0000	
* 29 Naphthalene-d8	136	5.663	5.663	(1.000)	1693938	40.0000	
* 46 Acenaphthene-d10	164	7.515	7.520	(1.000)	1018772	40.0000	
* 67 Phenanthrene-d10	188	9.116	9.115	(1.000)	1808746	40.0000	
* 91 Chrysene-d12	240	12.016	12.011	(1.000)	1527235	40.0000	
* 98 Perylene-d12	264	14.087	14.092	(1.000)	839090	40.0000	
\$ 3 2-Fluorophenol	112	3.268	3.253	(0.742)	712752	68.1500	2410
\$ 5 Phenol-d5	99	4.034	4.025	(0.917)	863152	66.1772	2340
\$ 20 Nitrobenzene-d5	82	4.930	4.934	(0.870)	383970	31.8869	1130
\$ 39 2-Fluorobiphenyl	172	6.787	6.787	(0.903)	951998	31.7466	1120
\$ 60 2,4,6-Tribromophenol	329	8.363	8.363	(1.113)	194708	57.8165	2040
\$ 81 p-Terphenyl-d14	244	10.830	10.830	(0.901)	1116766	40.6158	1440

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
6 Phenol		94	4.044	4.039	(0.919)	405077	30.0746	1060
8 2-Chlorophenol		128	4.206	4.206	(0.956)	399681	34.1733	1210
11 1,4-Dichlorobenzene		146	4.420	4.420	(1.004)	455490	31.8290	1120
17 N-Nitrosodipropylamine		70	4.777	4.787	(1.085)	276601	32.1069	1140 (Q)
28 1,2,4-Trichlorobenzene		180	5.596	5.601	(0.988)	407493	33.0460	1170
33 4-Chloro-3-methylphenol		107	6.239	6.220	(1.102)	315329	31.7817	1120
47 Acenaphthene		154	7.554	7.553	(1.005)	802066	29.6267	1050
50 2,4-Dinitrotoluene		165	7.715	7.720	(1.027)	294940	35.6402	1260
52 4-Nitrophenol		139	7.692	7.630	(1.023)	29464	8.47280	300 (a)
65 Pentachlorophenol		266	8.911	8.901	(0.978)	66909	16.7211	591
79 Pyrene		202	10.668	10.668	(0.888)	1496666	31.3873	1110
2 Pyridine		79	2.358	2.330	(0.536)	259438	26.2112	927
4 Aniline		66	4.092	4.096	(0.930)	176272	28.6561	1010
7 bis(2-Chloroethyl) ether		63	4.139	4.139	(0.940)	254624	27.6520	978
9 1,3-Dichlorobenzene		146	4.354	4.353	(0.989)	445385	32.1108	1140
12 Benzyl alcohol		108	4.535	4.515	(1.030)	65138	8.90378	315 (aRM)
13 1,2-Dichlorobenzene		146	4.563	4.563	(1.037)	430171	32.3160	1140
14 bis(2-Chloroisopropyl) ether		45	4.644	4.644	(1.055)	406705	22.5268	797
15 o-Cresol		107	4.611	4.606	(1.048)	294126	31.4432	1110
18 m,p-Cresols		107	4.758	4.763	(1.081)	460448	38.8959	1380
19 Hexachloroethane		117	4.892	4.892	(1.111)	158039	29.3052	1040
21 Nitrobenzene		77	4.954	4.953	(0.875)	392843	31.6270	1120
22 Isophorone		82	5.187	5.192	(0.916)	727542	31.8150	1120
23 2-Nitrophenol		139	5.263	5.268	(0.929)	203600	35.7139	1260
24 2,4-Dimethylphenol		122	5.292	5.292	(0.934)	219000	21.6084	764
25 bis(2-Chloroethoxy)methane		93	5.392	5.396	(0.952)	427114	33.3060	1180
26 2,4-Dichlorophenol		162	5.515	5.511	(0.974)	337400	36.7930	1300
27 Benzoic acid		105	5.420	5.387	(0.957)	345466	62.3701	2200 (Q)
30 Naphthalene		128	5.682	5.687	(1.003)	1226362	33.5481	1190
31 4-Chloroaniline		127	5.730	5.730	(1.012)	376527	31.1040	1100
32 Hexachlorobutadiene		225	5.801	5.806	(1.024)	245407	31.9993	1130
34 2-Methylnaphthalene		142	6.401	6.406	(1.130)	865232	35.2945	1250
36 Hexachlorocyclopentadiene		237	6.563	6.568	(0.873)	138369	21.8828	774
37 2,4,6-Trichlorophenol		196	6.701	6.696	(0.892)	233626	29.7640	1050
38 2,4,5-Trichlorophenol		196	6.744	6.730	(0.897)	277512	33.3100	1180
40 2-Chloronaphthalene		162	6.920	6.920	(0.921)	823284	32.9476	1160
42 o-Nitroaniline		65	7.025	7.025	(0.935)	222260	31.8580	1130
41 m-Nitroaniline		138	7.468	7.468	(0.994)	177791	33.4367	1180
43 Dimethylphthalate		163	7.220	7.225	(0.961)	1032510	36.1675	1280
44 2,6-Dinitrotoluene		165	7.287	7.287	(0.970)	228674	35.4304	1250
45 Acenaphthylene		152	7.363	7.368	(0.980)	1353486	32.0000	1130
48 2,4-Dinitrophenol		184	7.577	7.573	(1.008)	23681	21.7116	768
49 Dibenzofuran		168	7.735	7.734	(1.029)	1213579	34.1655	1210
51 Diethylphthalate		149	7.977	7.977	(1.061)	1064718	35.6351	1260
53 Fluorene		166	8.106	8.106	(1.079)	1044522	31.7669	1120
54 4-Chlorophenylphenylether		204	8.101	8.101	(1.078)	535251	33.8015	1200
55 2-Methyl-4,6-dinitrophenol		198	8.154	8.153	(0.894)	61891	20.9922	742

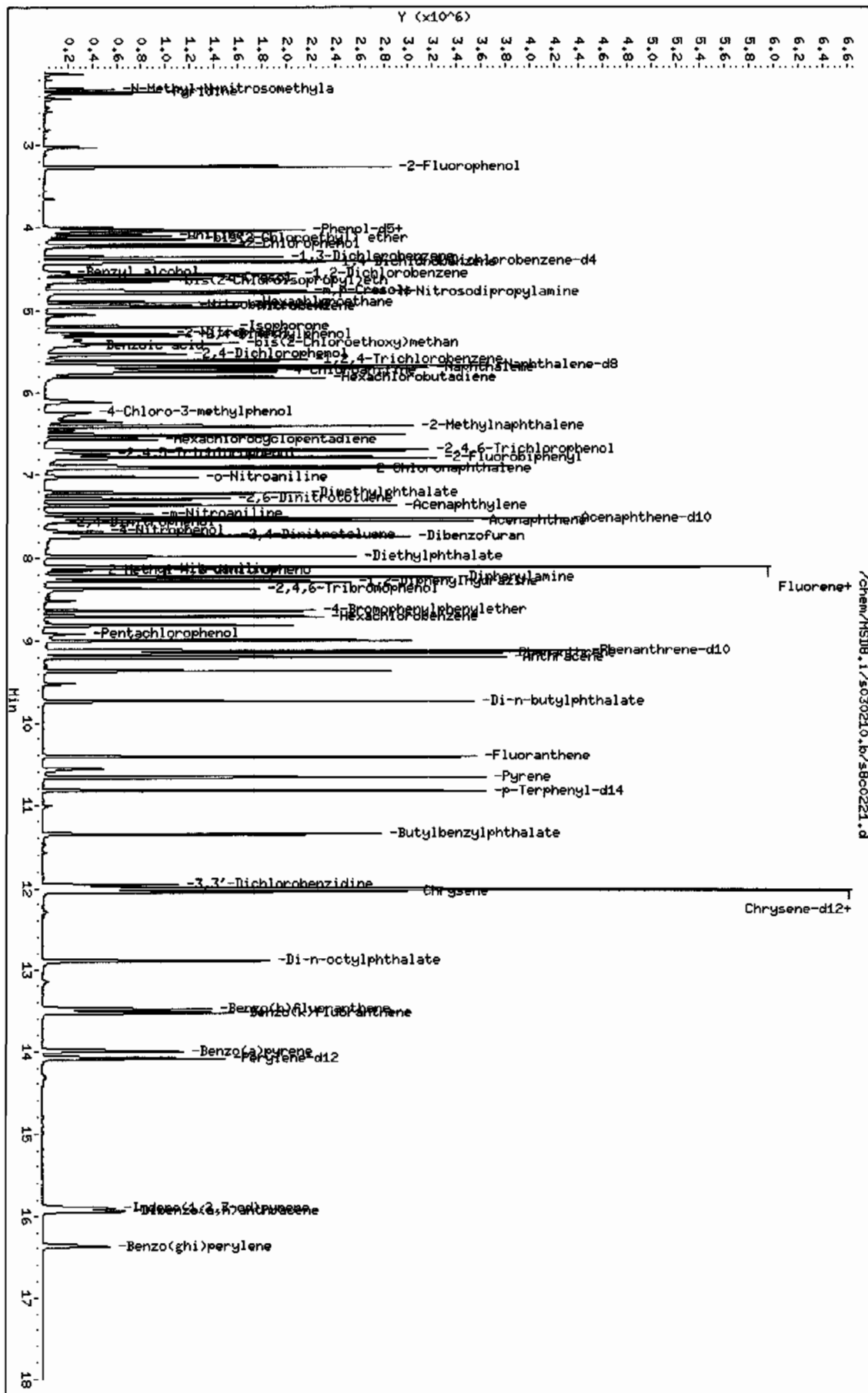
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	8.125	8.120	(1.081)	196720	41.8687	1480
133 Diphenylamine	169	8.230	8.230	(0.903)	937324	41.0096	1450
58 1,2-Diphenylhydrazine	77	8.273	8.273	(0.908)	904238	33.6794	1190
61 4-Bromophenylphenylether	248	8.630	8.630	(0.947)	313482	36.2701	1280
63 Hexachlorobenzene	284	8.696	8.696	(0.954)	302313	33.6527	1190
68 Phenanthrene	178	9.144	9.139	(1.003)	1420277	33.7328	1190
69 Anthracene	178	9.196	9.196	(1.009)	1428816	32.5472	1150
72 Di-n-butylphthalate	149	9.735	9.734	(1.068)	1798731	39.1999	1390
76 Fluoranthene	202	10.420	10.420	(1.143)	1487283	32.3138	1140
85 Butylbenzylphthalate	149	11.354	11.349	(0.945)	689002	41.3211	1460
89 Benzo(a)anthracene	228	11.996	11.996	(0.998)	1275477	31.7365	1120
90 3,3'-Dichlorobenzidine	252	11.958	11.959	(0.995)	320785	33.9054	1200
92 Chrysene	228	12.044	12.044	(1.002)	1184705	33.8367	1200
93 bis(2-Ethylhexyl)phthalate	149	12.016	12.011	(1.000)	1001580	42.9217	1520
94 Di-n-octylphthalate	149	12.892	12.892	(0.915)	1334471	49.9968	1770
95 Benzo(b)fluoranthene	252	13.482	13.482	(0.957)	843298	35.4488	1250
96 Benzo(k)fluoranthene	252	13.525	13.530	(0.960)	871541	36.4422	1290
97 Benzo(a)pyrene	252	13.997	13.996	(0.994)	710639	35.4186	1250
99 Indeno(1,2,3-cd)pyrene	276	15.901	15.901	(1.129)	462004	27.7722	982
100 Dibenzo(a,h)anthracene	278	15.939	15.944	(1.131)	474448	36.9032	1300
101 Benzo(ghi)perylene	276	16.368	16.377	(1.162)	422758	30.7154	1090
1 N-Methyl-N-nitrosomethylamine	74	2.320	2.296	(0.527)	181156	26.8491	950

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.
- M - Compound response manually integrated.

Data File: /chem/MSD8.1/s030210.b/s800221.d
 Date: 02-MAR-2010 19:06
 Client ID: REIS-10-8317MS
 Sample Info: 11202053896195783811.SW11.HS
 Volume Injected (uL): 0.5
 Column phase: 3M DB-SMS

Instrument: MSD8.1
 Operator: nag1
 Column diameter: 0.20



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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202053897	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 957826	Client: LANL010	Project: QC
Client ID: RE15-10-8317MSD	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/02/2010 19:35	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s8c0222.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		1020	ug/kg	71.1	356
108-95-2	Phenol		1150	ug/kg	71.1	356
95-57-8	2-Chlorophenol		1290	ug/kg	71.1	356
106-46-7	1,4-Dichlorobenzene		1210	ug/kg	71.1	356
621-64-7	N-Nitrosodipropylamine		1220	ug/kg	71.1	356
59-50-7	4-Chloro-3-methylphenol		1220	ug/kg	71.1	356
83-32-9	Acenaphthene		1100	ug/kg	11.7	35.6
121-14-2	2,4-Dinitrotoluene		1380	ug/kg	35.6	356
100-02-7	4-Nitrophenol	J	222	ug/kg	117	356
87-86-5	Pentachlorophenol		628	ug/kg	88.9	356
129-00-0	Pyrene		1100	ug/kg	10.7	35.6
110-86-1	Pyridine		966	ug/kg	71.1	356
62-53-3	Aniline		1020	ug/kg	107	356
111-44-4	bis(2-Chloroethyl) ether		1040	ug/kg	71.1	356
541-73-1	1,3-Dichlorobenzene		1220	ug/kg	71.1	356
100-51-6	Benzyl alcohol	J	351	ug/kg	107	356
95-50-1	1,2-Dichlorobenzene		1250	ug/kg	71.1	356
108-60-1	bis(2-Chloroisopropyl)ether		854	ug/kg	71.1	356
95-48-7	o-Cresol		1170	ug/kg	71.1	356
65794-96-9	m,p-Cresols		1440	ug/kg	107	356
67-72-1	Hexachloroethane		1130	ug/kg	71.1	356
98-95-3	Nitrobenzene		1230	ug/kg	71.1	356
78-59-1	Isophorone		1210	ug/kg	71.1	356
88-75-5	2-Nitrophenol		1420	ug/kg	71.1	356
105-67-9	2,4-Dimethylphenol		626	ug/kg	124	356
111-91-1	bis(2-Chloroethoxy)methane		1290	ug/kg	71.1	356
120-83-2	2,4-Dichlorophenol		1420	ug/kg	71.1	356
65-85-0	Benzoic acid		2430	ug/kg	178	711
91-20-3	Naphthalene		1280	ug/kg	10.7	35.6
106-47-8	4-Chloroaniline		1170	ug/kg	71.1	356
87-68-3	Hexachlorobutadiene		1230	ug/kg	71.1	356
91-57-6	2-Methylnaphthalene		1370	ug/kg	7.11	35.6
77-47-4	Hexachlorocyclopentadiene		903	ug/kg	71.1	356
88-06-2	2,4,6-Trichlorophenol		1130	ug/kg	71.1	356
95-95-4	2,4,5-Trichlorophenol		1250	ug/kg	71.1	356
91-58-7	2-Chloronaphthalene		1230	ug/kg	11.7	35.6
88-74-4	2-Nitroaniline		1220	ug/kg	71.1	356
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline		1300	ug/kg	71.1	356

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

SDG Number: 10-1982	Date Collected: 02/17/2010 12:00	Matrix: R
Lab Sample ID: 1202053897	Date Received: 02/23/2010 08:50	%Moisture: 6.3
Client Sample: QC for batch 957826	Client: LANL010	Project: QC
Client ID: RE15-10-8317MSD	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 957838	Inst: MSD8.I	Dilution: 1
Run Date: 03/02/2010 19:35	Analyst: NAG1	Inj. Vol: .5 uL
Prep Date: 02/25/2010 21:57	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s8c0222.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1370	ug/kg	71.1	356
606-20-2	2,6-Dinitrotoluene		1350	ug/kg	35.6	356
208-96-8	Acenaphthylene		1210	ug/kg	10.7	35.6
51-28-5	2,4-Dinitrophenol		922	ug/kg	135	711
132-64-9	Dibenzofuran		1290	ug/kg	71.1	356
84-66-2	Diethylphthalate		1350	ug/kg	71.1	356
86-73-7	Fluorene		1200	ug/kg	10.7	35.6
7005-72-3	4-Chlorophenylphenylether		1270	ug/kg	71.1	356
534-52-1	2-Methyl-4,6-dinitrophenol		924	ug/kg	71.1	356
100-01-6	4-Nitroaniline		1710	ug/kg	107	356
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1510	ug/kg	71.1	356
122-66-7	Azobenzene		1250	ug/kg	71.1	356
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1340	ug/kg	71.1	356
118-74-1	Hexachlorobenzene		1230	ug/kg	71.1	356
85-01-8	Phenanthrene		1250	ug/kg	10.7	35.6
120-12-7	Anthracene		1200	ug/kg	7.11	35.6
84-74-2	Di-n-butylphthalate		1430	ug/kg	71.1	356
206-44-0	Fluoranthene		1210	ug/kg	10.7	35.6
85-68-7	Butylbenzylphthalate		1460	ug/kg	71.1	356
56-55-3	Benzo(a)anthracene		1170	ug/kg	10.7	35.6
91-94-1	3,3'-Dichlorobenzidine		1280	ug/kg	107	356
218-01-9	Chrysene		1200	ug/kg	10.7	35.6
117-81-7	bis(2-Ethylhexyl)phthalate		1510	ug/kg	71.1	356
117-84-0	Di-n-octylphthalate		1710	ug/kg	71.1	356
205-99-2	Benzo(b)fluoranthene		1310	ug/kg	10.7	35.6
207-08-9	Benzo(k)fluoranthene		1310	ug/kg	10.7	35.6
50-32-8	Benzo(a)pyrene		1310	ug/kg	10.7	35.6
193-39-5	Indeno(1,2,3-cd)pyrene		1120	ug/kg	10.7	35.6
53-70-3	Dibenzo(a,h)anthracene		1420	ug/kg	10.7	35.6
191-24-2	Benzo(ghi)perylene		1170	ug/kg	10.7	35.6
120-82-1	1,2,4-Trichlorobenzene		1280	ug/kg	71.1	356

Data File: /chem/MSD8.i/s030210.b/s8c0222.d
 Report Date: 03-Mar-2010 07:00

Page 1

GEL Laboratories LLC

Data file : /chem/MSD8.i/s030210.b/s8c0222.d
 Lab Smp Id: 1202053897 Client Smp ID: RE15-10-8317MSD
 Inj Date : 02-MAR-2010 19:35
 Operator : nagl Inst ID: MSD8.i
 Smp Info : |1202053897|957838|1|SVM|1|MSD
 Misc Info : |MSD5C70D_S|WBN100227-01
 Comment : Column: J & W DB-5MS, 25m x 0.20 mm x 0.33 micron film
 Method : /chem/MSD8.i/s030210.b/MSD8-8270AQA-022010.m
 Meth Date : 02-Mar-2010 20:07 nat00999 Quant Type: ISTD
 Cal Date : 21-FEB-2010 23:15 Cal File: s8b2042.d
 Als bottle: 22 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1982.sub
 Target Version: 3.50
 Processing Host: hpc1pl

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	6.34340	% 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	4.401	4.401	(1.000)	458356	40.0000	
* 29 Naphthalene-d8		136	5.663	5.663	(1.000)	1729539	40.0000	
* 46 Acenaphthene-d10		164	7.516	7.520	(1.000)	1058027	40.0000	
* 67 Phenanthrene-d10		188	9.116	9.115	(1.000)	1917293	40.0000	
* 91 Chrysene-d12		240	12.016	12.011	(1.000)	1754507	40.0000	
* 98 Perylene-d12		264	14.092	14.092	(1.000)	997950	40.0000	
\$ 3 2-Fluorophenol		112	3.268	3.253	(0.742)	788321	72.8500	2590
\$ 5 Phenol-d5		99	4.035	4.025	(0.917)	955077	70.7715	2520
\$ 20 Nitrobenzene-d5		82	4.930	4.934	(0.870)	425978	34.6473	1230
\$ 39 2-Fluorobiphenyl		172	6.787	6.787	(0.903)	1059061	34.0065	1210
\$ 60 2,4,6-Tribromophenol		329	8.368	8.363	(1.113)	231480	66.1853	2350
\$ 81 p-Terphenyl-d14		244	10.830	10.830	(0.901)	1271921	40.2665	1430

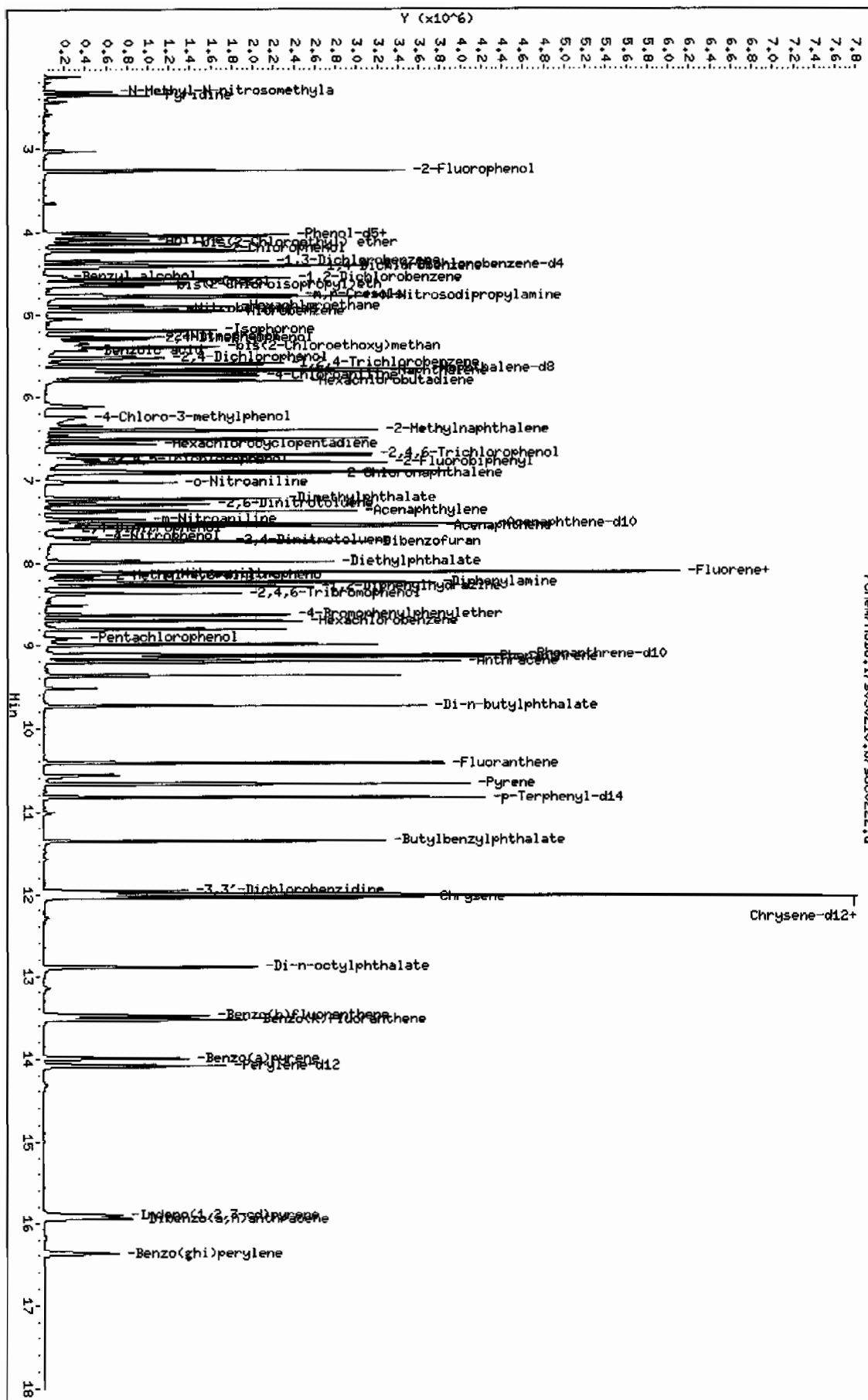
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
6 Phenol	94	4.044	4.039	(0.919)	449341	32.2431	1150
8 2-Chlorophenol	128	4.206	4.206	(0.956)	439262	36.2991	1290
11 1,4-Dichlorobenzene	146	4.420	4.420	(1.004)	505056	34.1100	1210
17 N-Nitrosodipropylamine	70	4.777	4.787	(1.085)	305455	34.2682	1220 (Q)
28 1,2,4-Trichlorobenzene	180	5.596	5.601	(0.988)	451729	35.8793	1280
33 4-Chloro-3-methylphenol	107	6.244	6.220	(1.103)	348115	34.3639	1220
47 Acenaphthene	154	7.554	7.553	(1.005)	869372	30.9214	1100
50 2,4-Dinitrotoluene	165	7.716	7.720	(1.027)	334124	38.8772	1380
52 4-Nitrophenol	139	7.687	7.630	(1.023)	22596	6.25672	222 (aR)
65 Pentachlorophenol	266	8.911	8.901	(0.978)	74946	17.6692	628
79 Pyrene	202	10.668	10.668	(0.888)	1694959	30.9413	1100
2 Pyridine	79	2.363	2.330	(0.537)	278181	27.1631	966
4 Aniline	66	4.096	4.096	(0.931)	182402	28.6591	1020
7 bis(2-Chloroethyl) ether	63	4.139	4.139	(0.940)	279910	29.3795	1040
9 1,3-Dichlorobenzene	146	4.354	4.353	(0.989)	493857	34.4125	1220
12 Benzyl alcohol	108	4.539	4.515	(1.031)	74791	9.88071	351 (aQ)
13 1,2-Dichlorobenzene	146	4.563	4.563	(1.037)	483660	35.1168	1250
14 bis(2-Chloroisopropyl) ether	45	4.644	4.644	(1.055)	448813	24.0261	854
15 o-Cresol	107	4.615	4.606	(1.049)	318117	32.8684	1170
18 m,p-Cresols	107	4.763	4.763	(1.082)	496084	40.5020	1440
19 Hexachloroethane	117	4.892	4.892	(1.111)	176700	31.6677	1120
21 Nitrobenzene	77	4.954	4.953	(0.875)	438014	34.5378	1230
22 Isophorone	82	5.187	5.192	(0.916)	797387	34.1515	1210
23 2-Nitrophenol	139	5.263	5.268	(0.929)	233016	40.0325	1420
24 2,4-Dimethylphenol	122	5.292	5.292	(0.934)	182191	17.6065	626
25 bis(2-Chloroethoxy)methane	93	5.392	5.396	(0.952)	474447	36.2355	1290
26 2,4-Dichlorophenol	162	5.520	5.511	(0.975)	374513	39.9995	1420
27 Benzoic acid	105	5.430	5.387	(0.959)	396421	68.2420	2430 (Q)
30 Naphthalene	128	5.682	5.687	(1.003)	1348889	35.9855	1280
31 4-Chloroaniline	127	5.730	5.730	(1.012)	407463	32.9666	1170
32 Hexachlorobutadiene	225	5.801	5.806	(1.024)	270215	34.5088	1230
34 2-Methylnaphthalene	142	6.401	6.406	(1.130)	964158	38.4009	1360
36 Hexachlorocyclopentadiene	237	6.563	6.568	(0.873)	166707	25.3862	903
37 2,4,6-Trichlorophenol	196	6.701	6.696	(0.892)	258256	31.6811	1130
38 2,4,5-Trichlorophenol	196	6.749	6.730	(0.898)	304754	35.2227	1250
40 2-Chloronaphthalene	162	6.920	6.920	(0.921)	903252	34.7242	1230
42 o-Nitroaniline	65	7.025	7.025	(0.935)	248848	34.3456	1220
41 m-Nitroaniline	138	7.468	7.468	(0.994)	202406	36.6536	1300
43 Dimethylphthalate	163	7.220	7.225	(0.961)	1144494	38.6027	1370
44 2,6-Dinitrotoluene	165	7.287	7.287	(0.970)	253898	37.8790	1350
45 Acenaphthylene	152	7.368	7.368	(0.980)	1496645	34.0718	1210
48 2,4-Dinitrophenol	184	7.577	7.573	(1.008)	38769	25.9408	922
49 Dibenzofuran	168	7.735	7.734	(1.029)	1342774	36.4001	1290
51 Diethylphthalate	149	7.977	7.977	(1.061)	1176014	37.8997	1350
53 Fluorene	166	8.106	8.106	(1.079)	1155121	33.8271	1200
54 4-Chlorophenylphenylether	204	8.101	8.101	(1.078)	589609	35.8528	1270
55 2-Methyl-4,6-dinitrophenol	198	8.154	8.153	(0.894)	88543	25.9802	924

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
56 p-Nitroaniline	138	8.125	8.120	(1.081)	234247	48.0060	1710
133 Diphenylamine	169	8.230	8.230	(0.903)	1028356	42.4452	1510
58 1,2-Diphenylhydrazine	77	8.273	8.273	(0.908)	1000598	35.1585	1250
61 4-Bromophenylphenylether	248	8.630	8.630	(0.947)	345588	37.7211	1340
63 Hexachlorobenzene	284	8.696	8.696	(0.954)	330629	34.7211	1230
68 Phenanthrene	178	9.144	9.139	(1.003)	1577739	35.2568	1250
69 Anthracene	178	9.196	9.196	(1.009)	1568372	33.7036	1200
72 Di-n-butylphthalate	149	9.735	9.734	(1.068)	1953854	40.1699	1430
76 Fluoranthene	202	10.425	10.420	(1.144)	1666205	34.1517	1210
85 Butylbenzylphthalate	149	11.354	11.349	(0.945)	784875	40.9734	1460
89 Benzo (a) anthracene	228	12.001	11.996	(0.999)	1521700	32.9584	1170
90 3,3'-Dichlorobenzidine	252	11.963	11.959	(0.996)	391730	36.0406	1280
92 Chrysene	228	12.049	12.044	(1.003)	1359714	33.8049	1200
93 bis (2-Ethylhexyl)phthalate	149	12.016	12.011	(1.000)	1140698	42.5513	1510
94 Di-n-octylphthalate	149	12.892	12.892	(0.915)	1518639	48.0682	1710
95 Benzo (b) fluoranthene	252	13.487	13.482	(0.957)	1038930	36.7204	1300
96 Benzo (k) fluoranthene	252	13.530	13.530	(0.960)	1045097	36.7428	1310
97 Benzo (a) pyrene	252	14.001	13.996	(0.994)	882422	36.9792	1310
99 Indeno (1,2,3-cd) pyrene	276	15.906	15.901	(1.129)	622478	31.4621	1120
100 Dibenzo (a,h) anthracene	278	15.944	15.944	(1.131)	611624	40.0000	1420
101 Benzo (ghi) perylene	276	16.373	16.377	(1.162)	539142	32.9357	1170
1 N-Methyl-N-nitrosomethylamine	74	2.325	2.296	(0.528)	201030	28.7963	1020

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.

```
Instrument: MSD8.i
Operator: nag1
Column diameter: 0.20
```



Miscellaneous Data

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 957826 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)
1202053894 MB	25-FEB-2010 21:57:00	30	1	0.03333
1202053895 LCS	25-FEB-2010 21:57:00	30	1	0.03333
247784002	25-FEB-2010 21:57:00	30.01	1	0.03332
247790002	25-FEB-2010 21:57:00	30.03	1	0.0333
247790003	25-FEB-2010 21:57:00	30.19	1	0.03312
247791002	25-FEB-2010 21:57:00	30.05	1	0.03328
1202053896 MS (247791002)	25-FEB-2010 21:57:00	30.19	1	0.03312
1202053897 MSD (247791002)	25-FEB-2010 21:57:00	30.03	1	0.0333
247791003	25-FEB-2010 21:57:00	30.07	1	0.03326
247791004	25-FEB-2010 21:57:00	30.06	1	0.03327
247791005	25-FEB-2010 21:57:00	30.03	1	0.0333
247791006	25-FEB-2010 21:57:00	30.04	1	0.03329
247855002	25-FEB-2010 21:57:00	30.05	1	0.03328

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202053895	BNA LCS w/o Benzidine 50ppm	UE100217-14	1	mL	Verified By: AJS
LCS	1202053895	BENZIDINE LCS	UE100217-22	1	mL	Final Solvent: CH2Cl2
MS	1202053896	BNA LCS w/o Benzidine 50ppm	UE100217-14	1	mL	
MS	1202053896	BENZIDINE LCS	UE100217-22	1	mL	
MSD	1202053897	BNA LCS w/o Benzidine 50ppm	UE100217-14	1	mL	
MSD	1202053897	BENZIDINE LCS	UE100217-22	1	mL	
SURR	All	BNA for all Surrogate	UE100222-10	1	mL	
REGNT	All	Acetone	1273823-B1	150	mL	
REGNT	All	Methylene Chloride	1274843-D	150	mL	
SOURC	All	SODIUM SULFATE	1274910	30	g	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD8

DATE: 03/01/2010 METHOD: See raw data OPERATOR: NAG REVIEWED BY: _____ DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT 1266705-D
Multiplier Voltage: 1094mv 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/MSD8.i/s030110.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8c0101-D.d	WBN100207-01	lnag1	01-MAR-2010 12:11	150 PPM	s030110	1.0	DFTPP	
s8c0101.d	WBN100207-01	lnag1	01-MAR-2010 12:11	150 PPM	s030110	1.0	DFTPP	
s8c0102-D.d	WBN100215-05.3	lnag1	01-MAR-2010 12:28	140 PPM	s030110	1.0	MEGACVS	1382428
s8c0102.d	WBN100215-05.3	lnag1	01-MAR-2010 12:28	140 PPM	s030110	1.0	MEGACVS	
s8c0103-D.d	WBN100218-03.5	lnag1	01-MAR-2010 13:03	140 PPM	s030110	1.0	AF12CVS	
s8c0103.d	WBN100218-03.5	lnag1	01-MAR-2010 13:03	140 PPM	s030110	1.0	AF12CVS	
s8c0104.d	WBN100205-23.3	lnag1	01-MAR-2010 13:33	140 PPM	s030110	1.0	PES7CVS	
s8c0105-1.d	1202053894	lnag1	01-MAR-2010 14:03	957838	10-1981	1.0	SBK01	
s8c0105-2.d	1202053894	lnag1	01-MAR-2010 14:03	957838	10-1982	1.0	SBK01	
s8c0105-3.d	1202053894	lnag1	01-MAR-2010 14:03	957838	10-1978	1.0	SBK01	
s8c0105.d	1202053894	lnag1	01-MAR-2010 14:03	957838	10-1979	1.0	SBK01	
s8c0106-1.d	1202053895	lnag1	01-MAR-2010 14:31	957838	10-1981	1.0	SBK01LCS	
s8c0106-2.d	1202053895	lnag1	01-MAR-2010 14:31	957838	10-1982	1.0	SBK01LCS	
s8c0106-3.d	1202053895	lnag1	01-MAR-2010 14:31	957838	10-1978	1.0	SBK01LCS	
s8c0106.d	1202053895	lnag1	01-MAR-2010 14:31	957838	10-1979	1.0	SBK01LCS	
s8c0107.d	12471116010	lnag1	01-MAR-2010 15:00	956004	10-1839	1.0	LANL	10USE-failed IS/surrrr-s8c0417 confirmed-RX-see MSD7
s8c0108.d	12471116011	lnag1	01-MAR-2010 15:29	956004	10-1839	1.0	LANL	
s8c0109.d	12471116012	lnag1	01-MAR-2010 15:59	956004	10-1839	1.0	LANL	10USE - failed IS - rr - see s8c0225
s8c0110.d	12471116013	lnag1	01-MAR-2010 16:29	956004	10-1839	1.0	LANL	10USE - failed IS - rr - see s8c0217

s8c0111.d	1247116014	101-MAR-2010 16:59	956004	10-1839	1.0 LANL	DUSE - failed IS - rr - see s8c0218
s8c0112.d	1247116015	101-MAR-2010 17:29	956004	10-1839	1.0 LANL	DUSE - failed IS - rr - see s8c0223
s8c0113.d	1247116016	101-MAR-2010 18:00	956004	10-1839	1.0 LANL	
s8c0114.d	1247116017	101-MAR-2010 18:29	956004	10-1839	1.0 LANL	DUSE - failed IS - rr - see s8c0224
s8c0115.d	1247784002	101-MAR-2010 18:59	957838	10-1979	1.0 LANL	
s8c0116.d	1247790002	101-MAR-2010 19:29	957838	10-1981	1.0 LANL	
s8c0117.d	1247790003	101-MAR-2010 19:59	957838	10-1981	1.0 LANL	DUSE - failed IS - rr - see s8c0219
s8c0118.d	1247791002	101-MAR-2010 20:28	957838	10-1982	1.0 LANL	DUSE - failed IS - rr - see s8c0220
s8c0119.d	1202053896	101-MAR-2010 20:58	957838	10-1982	1.0 MS	DUSE - failed spike - rr - see s8c0221
s8c0120.d	1202053897	101-MAR-2010 21:28	957838	10-1982	1.0 MSD	DUSE - failed spike - rr - see s8c0222
s8c0121.d	1247791003	101-MAR-2010 21:58	957838	10-1982	1.0 LANL	DUSE - failed IS/surr - rr - see s8c0320
s8c0122.d	1247838002	101-MAR-2010 22:28	957051	247838	1.0 GEIC	DUSE - failed IS/surr - rr - see s8c0214
s8c0123.d	1202052075	101-MAR-2010 22:58	957051	247838	1.0 MS	DUSE - failed spike - rr - see s8c0215
s8c0124.d	1202052076	101-MAR-2010 23:27	957051	247838	1.0 MSD	DUSE - failed spike - rr - see s8c0216
s8c0125.d	1247409001	101-MAR-2010 23:56	956332	EUI-7516	10.0 CARE	DUSE - failed IS/surr - rr of s8b2821 - rr - see MSD6

Instrument Batch: /chem/MSD8.i/s030110.b

Page: 1

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD8

DATE: 03/02/2010 METHOD: See raw data OPERATOR: NAG REVIEWED BY: _____ DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT 1266705-D
Multiplier Voltage: 1094mv Extr. Injection Volume: 0.5, 1.0 ul
DETPP 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/MSD8.i/s030210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8c0201-D.d	WBN100207-01	lnag1	102-MAR-2010 09:18	150 PPM	s030210	1.0	DETPP	
s8c0201.d	WBN100207-01	lnag1	102-MAR-2010 09:18	150 PPM	s030210	1.0	DETPP	
s8c0202-D.d	WBN100225-05.5	lnag1	102-MAR-2010 09:35	140 PPM	s030210	1.0	MEGACVS	1378003
s8c0202.d	WBN100225-05.5	lnag1	102-MAR-2010 09:35	140 PPM	s030210	1.0	MEGACVS	
s8c0203-D.d	WBN100218-03.5	lnag1	102-MAR-2010 10:07	140 PPM	s030210	1.0	AP12CVS	
s8c0203.d	WBN100218-03.5	lnag1	102-MAR-2010 10:07	140 PPM	s030210	1.0	AP12CVS	
s8c0204.d	WBN100205-23.3	lnag1	102-MAR-2010 10:36	140 PPM	s030210	1.0	PESTCVS	
s8c0205.d	1202051515	lnag1	102-MAR-2010 11:06	1958321	EUI-7509	1.0	TBLK01	
s8c0206.d	1202052746	lnag1	102-MAR-2010 11:36	1958321	EUI-7515	1.0	TBLK01	
s8c0207.d	1202055171	lnag1	102-MAR-2010 12:05	1958321	EUI-7509	1.0	SBLK01	
s8c0208.d	1202055172	lnag1	102-MAR-2010 12:35	1958321	EUI-7509	1.0	SBLK01LCS	
s8c0209.d	1247294001	lnag1	102-MAR-2010 13:05	1958321	EUI-7509	1.0	CARE	
s8c0210.d	1202055173	lnag1	102-MAR-2010 13:34	1958321	EUI-7509	1.0	IMS	
s8c0211.d	1202055174	lnag1	102-MAR-2010 14:05	1958321	EUI-7509	1.0	MSD	
s8c0212.d	1247407001	lnag1	102-MAR-2010 14:35	1958321	EUI-7514	1.0	CARE	
s8c0213.d	1247408001	lnag1	102-MAR-2010 15:04	1958321	EUI-7515	1.0	CARE	
s8c0214.d	1247838002	lnag1	102-MAR-2010 15:35	1957051	1247838	1.0	GEIC	USE - rr of s8c0122
s8c0215.d	1202052075	lnag1	102-MAR-2010 16:08	1957051	1247838	1.0	IMS	USE - rr of s8c0123
s8c0216.d	1202052076	lnag1	102-MAR-2010 16:38	1957051	1247838	1.0	MSD	USE - rr of s8c0124

s8c0217.d	247116013	inag1	02-MAR-2010 17:07	956004	10-1839	1.0 LANL	USE - rr of s8c0110
s8c0218.d	247116014	inag1	02-MAR-2010 17:37	956004	10-1839	1.0 LANL	USE - rr of s8c0111
s8c0219.d	247790003	inag1	02-MAR-2010 18:07	957838	10-1981	1.0 LANL	USE - rr of s8c0117
s8c0220.d	247791002	inag1	02-MAR-2010 18:36	957838	10-1982	1.0 LANL	USE - rr of s8c0118
s8c0221.d	1202053896	inag1	02-MAR-2010 19:06	957838	10-1982	1.0 MS	USE - rr of s8c0119
s8c0222.d	1202053897	inag1	02-MAR-2010 19:35	957838	10-1982	1.0 MSD	USE - rr of s8c0120
s8c0223.d	247116015	inag1	02-MAR-2010 20:05	956004	10-1839	1.0 LANL	USE - rr of s8c0112
s8c0224.d	247116017	inag1	02-MAR-2010 20:34	956004	10-1839	1.0 LANL	USE - rr of s8c0114
s8c0225.d	247116012	inag1	02-MAR-2010 21:04	956004	10-1839	1.0 LANL	USE - rr of s8c0109

Instrument Batch: /chem/MSD8.i/s030210.b

Page: 1

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD8

DATE: 03/03/2010 METHOD: See raw data OPERATOR: NAG REVIEWED BY: DATE:
 HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT 1266705-D
 Multiplier Voltage: 1176mv 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/MSD8.i/s030310.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8c0301.d	WBN100207-01	nag1	03-MAR-2010 08:49	150 PPM	s030310	1.0	DFTPP	DOSE
s8c0302.d	WBN100225-05.5	nag1	03-MAR-2010 09:05	140 PPM	s030310	1.0	MEGACVS	DOSE
s8c0303.d	WBN100215-05.5	nag1	03-MAR-2010 09:37	140 PPM	s030310	1.0	MEGACVS	DOSE
s8c0304.d	WBN100218-03.4	nag1	03-MAR-2010 10:08	140 PPM	s030310	1.0	AP12CVS	DOSE
s8c0305.d	WBN100207-01	nag1	03-MAR-2010 10:57	150 PPM	s030310	1.0	DFTPP	DOSE
s8c0306.d	WBN100225-05.5	nag1	03-MAR-2010 11:13	140 PPM	s030310	1.0	MEGACVS	DOSE
s8c0307.d	WBN100207-01	nag1	03-MAR-2010 13:25	150 PPM	s030310	1.0	DFTPP	
s8c0308.d	WBN100225-05.5	nag1	03-MAR-2010 13:40	140 PPM	s030310	1.0	MEGACVS	337349
s8c0309.d	WBN100218-03.4	nag1	03-MAR-2010 14:12	140 PPM	s030310	1.0	AP12CVS	
s8c0310-1.d	1202057395	nag1	03-MAR-2010 14:41	959294	10-2022	1.0	SBLK01	
s8c0310-2.d	1202057395	nag1	03-MAR-2010 14:41	959294	10-2057	1.0	SBLK01	
s8c0310.d	1202057395	nag1	03-MAR-2010 14:41	959294	10-2005	1.0	SBLK01	
s8c0311-1.d	1202057398	nag1	03-MAR-2010 15:11	959294	10-2022	1.0	SBLK01LCS	failed <5%
s8c0311-2.d	1202057398	nag1	03-MAR-2010 15:11	959294	10-2057	1.0	SBLK01LCS	failed <5%
s8c0311.d	1202057398	nag1	03-MAR-2010 15:11	959294	10-2005	1.0	SBLK01LCS	failed <5%
s8c0312.d	1202057827	nag1	03-MAR-2010 15:41	959459	1248-60	1.0	SBLK01	
s8c0313.d	1202057828	nag1	03-MAR-2010 16:11	959459	1248-60	1.0	SBLK01LCS	
s8c0314.d	1247824002	nag1	03-MAR-2010 16:40	959294	10-2005	1.0	LANL	passes w/in holding - RX of s8d2519
s8c0315.d	1247922004	nag1	03-MAR-2010 17:10	959294	10-2022	1.0	LANL	failed surr - C93 OR - rr @ 2x - see s8c0412 for DL

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD8

DATE: 02/20/2010 METHOD: See raw data OPERATOR: NAG REVIEWED BY: _____ DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT 1239699-D
Multiplier Voltage: 1094mv 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/MSD8.i/s022010.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8b2001-D.d	WBN100207-01	nag1	20-FEB-2010 12:04	150 PPM	s022010	1.0	DFTPP	
s8b2001.d	WBN100207-01	nag1	20-FEB-2010 12:04	150 PPM	s022010	1.0	DFTPP	
s8b2002.d	inst blk	nag1	20-FEB-2010 12:21	1.0	INST BLK			
s8b2003.d	WBN100215-08	nag1	20-FEB-2010 12:55	11 PPM	s022010	1.0	MEGAICAL	Naphthalene/1-Methylnaphthalene failed SC
s8b2004-linear.d	WBN100215-07	nag1	20-FEB-2010 13:30	110 PPM	s022010	1.0	MEGAICAL	
s8b2004.d	WBN100215-07	nag1	20-FEB-2010 13:30	110 PPM	s022010	1.0	MEGAICAL	
s8b2005-linear.d	WBN100215-06	nag1	20-FEB-2010 14:05	120 PPM	s022010	1.0	MEGAICAL	
s8b2005.d	WBN100215-06	nag1	20-FEB-2010 14:05	120 PPM	s022010	1.0	MEGAICAL	
s8b2006.d	WBN100215-05.1	nag1	20-FEB-2010 14:40	140 PPM	s022010	1.0	MEGAICAL	
s8b2007.d	WBN100215-04	nag1	20-FEB-2010 15:14	150 PPM	s022010	1.0	MEGAICAL	
s8b2008.d	WBN100215-03	nag1	20-FEB-2010 15:50	180 PPM	s022010	1.0	MEGAICAL	
s8b2009.d	WBN100215-02	nag1	20-FEB-2010 16:25	1100 PPM	s022010	1.0	MEGAICAL	
s8b2010.d	WBN100215-01	nag1	20-FEB-2010 16:59	1120 PPM	s022010	1.0	MEGAICAL	
s8b2011.d	inst blk	nag1	20-FEB-2010 17:34	1.0	INST BLK			
s8b2012-D.d	WBN100215-05.1	nag1	20-FEB-2010 18:09	140 PPM	s022010	1.0	MEGAICAL	18270D
s8b2012.d	WBN100215-05.1	nag1	20-FEB-2010 18:09	140 PPM	s022010	1.0	MEGAICAL	
s8b2013-D.d	WBN100207-01	nag1	21-FEB-2010 08:35	150 PPM	s022010	1.0	DFTPP	
s8b2013.d	WBN100207-01	nag1	21-FEB-2010 08:35	150 PPM	s022010	1.0	DFTPP	
s8b2014.d	inst blk	nag1	21-FEB-2010 08:51	1.0	INST BLK			

Is8b2038.d	WBNI00207-01	Isag1	21-FEB-2010 21:26	150 PPM	Is022010	1	1.0 DFTPP	1
Is8b2039.d	Inst blk	Isag1	21-FEB-2010 21:43	-----	Is022010	1	1.0 INST BLK	1
Is8b2040.d	WBNI00127-01	Isag1	21-FEB-2010 22:13	110 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2041.d	WBNI00127-02	Isag1	21-FEB-2010 22:45	120 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2042.d	WBNI00127-03	Isag1	21-FEB-2010 23:15	140 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2043.d	WBNI00127-04	Isag1	21-FEB-2010 23:46	150 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2044.d	WBNI00127-05	Isag1	22-FEB-2010 00:17	180 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2045.d	WBNI00127-06	Isag1	22-FEB-2010 00:48	1100 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2046.d	WBNI00127-07	Isag1	22-FEB-2010 01:19	1120 PPM	Is022010	1	1.0 NEVICAL	1
Is8b2047-D.d	WBNI00103-10.2	Isag1	22-FEB-2010 08:59	11250 PPM	Is022010	1	1.0 HEXICV	18270D
Is8b2047.d	WBNI00103-10.2	Isag1	22-FEB-2010 08:59	11250 PPM	Is022010	1	1.0 HEXICV	1

Is10HInstrument Batch: /chem/MSD8.i/s022010.b

DATA EXCEPTION REPORT

Mo.Day Yr. 04-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: SEMIVOA GC/MS	Test / Method: SW846 8270C	Matrix Type: Solid	Client Code: LANL
Batch ID: 957838	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247784(10-1979),247790(10-1981),247791(10-1982),247855(10-1978)			
Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. The MS(1202053896) recovered Benzyl alcohol at 18%. The limits are 19%-112%. 2. The MSD(1202053897) recovered 4-Nitrophenol at 13%. The limits are 15%-110%.		1., 2. As the MS and MSD displayed similar recoveries, the failures were attributed to sample matrix interference and the data have been reported.	

Originator's Name:

Nathan Greene

04-MAR-10

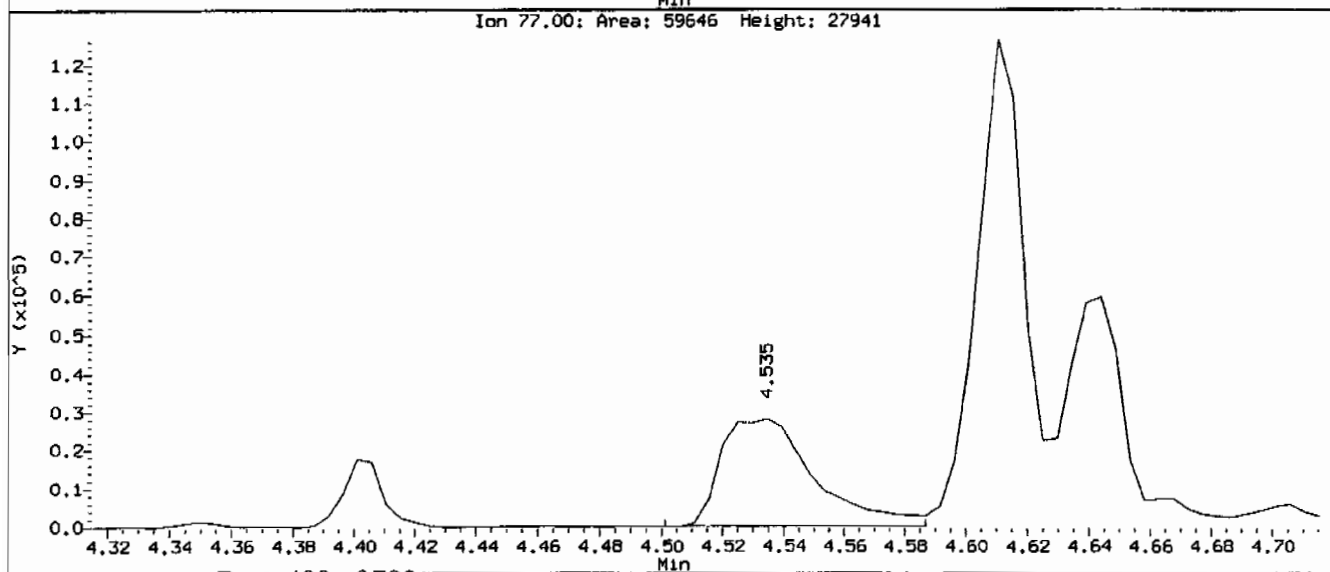
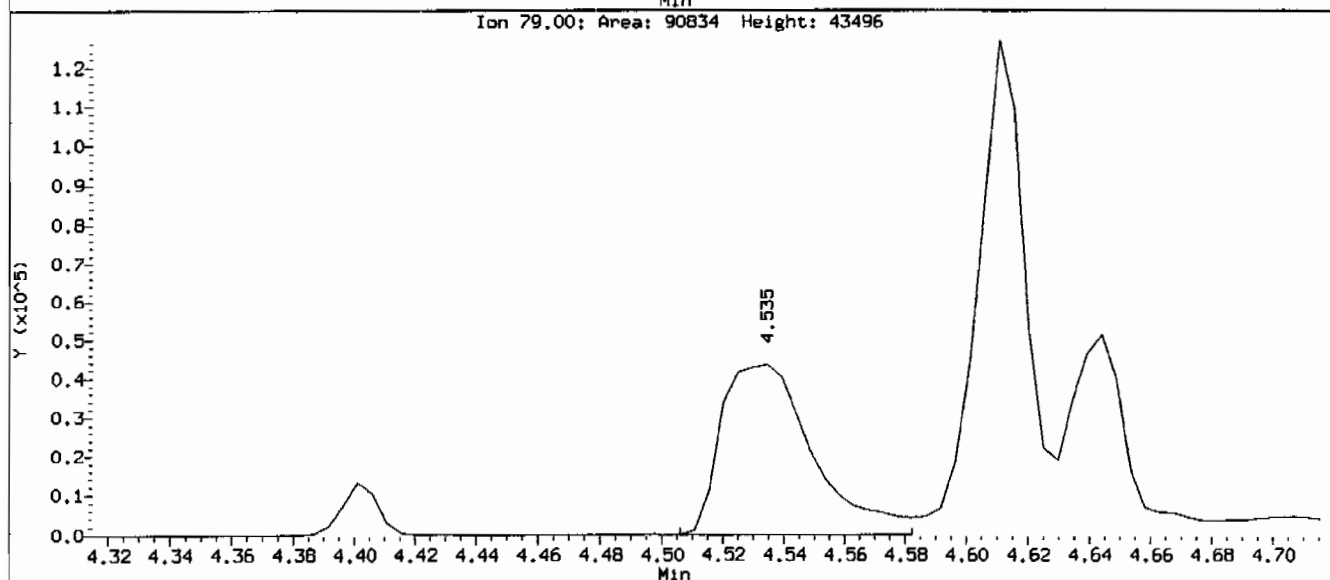
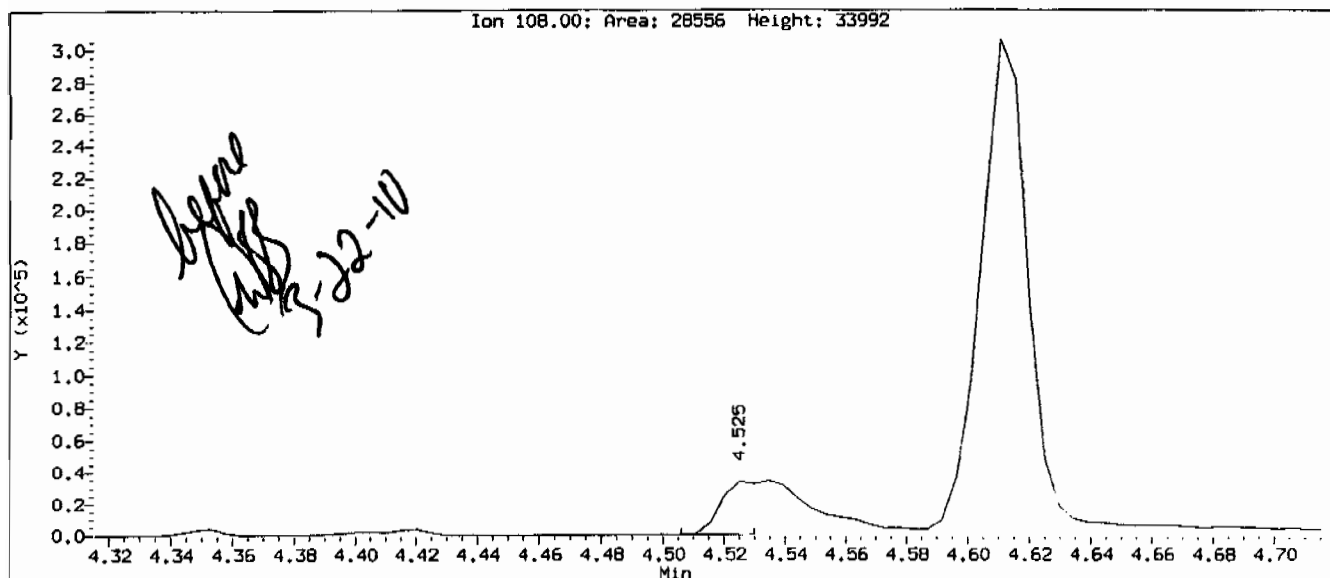
Data Validator/Group Leader:

Barbara Bailey

04-MAR-10

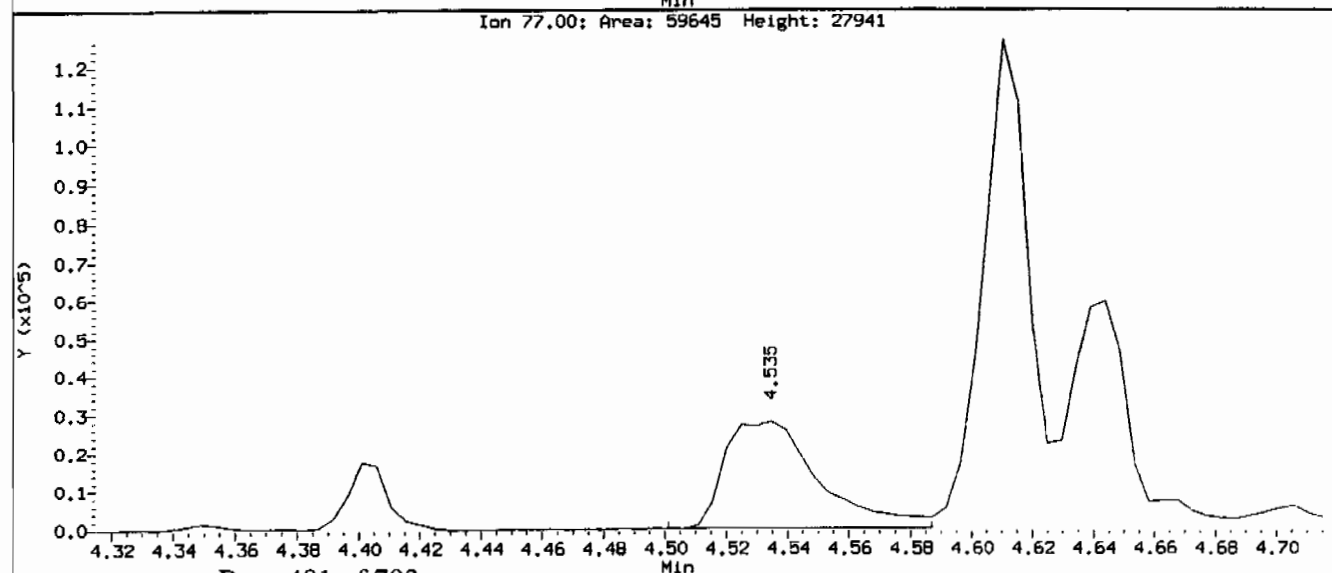
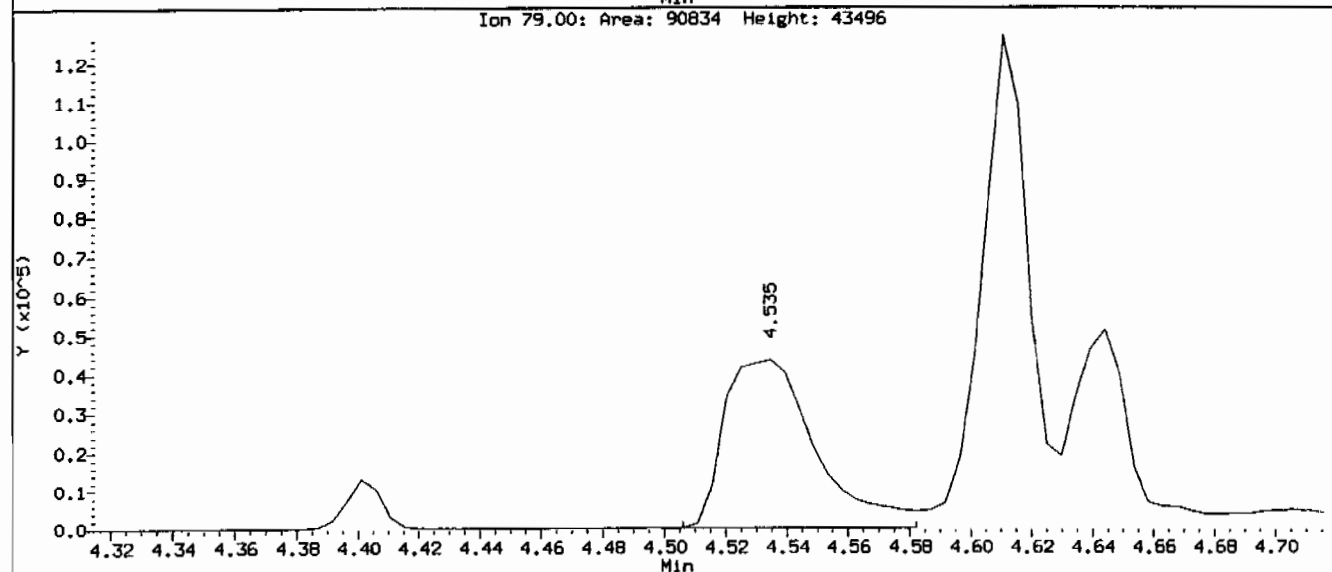
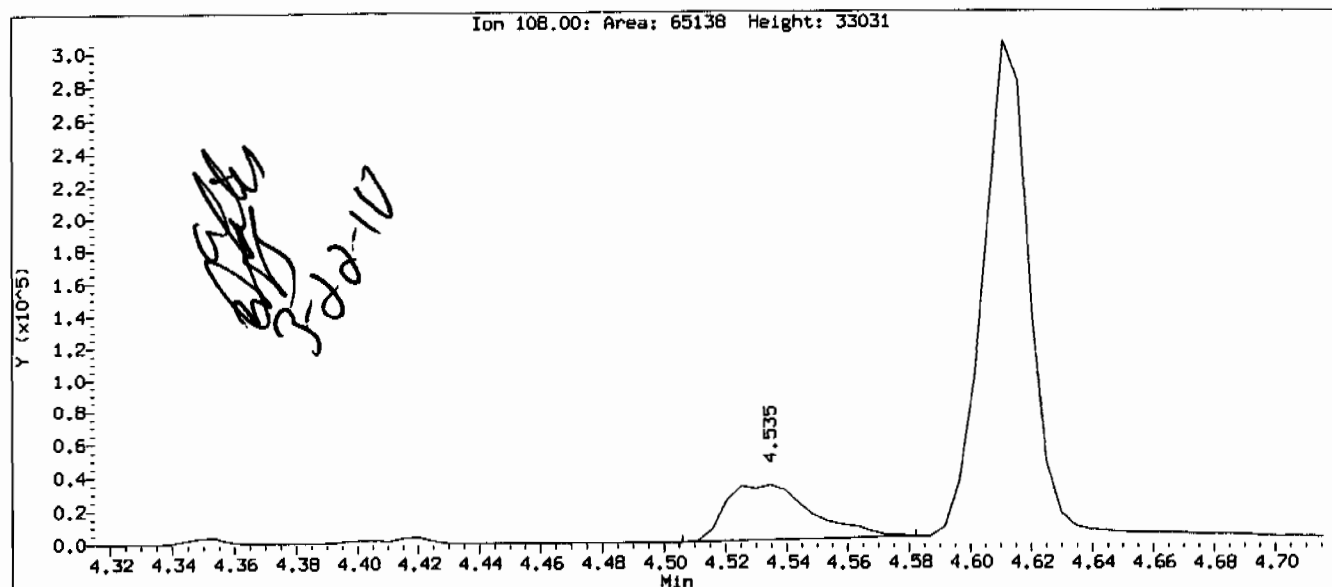
Data File: /chem/MSDB.i/s030210.b/s8c0221.d
Injection Date: 02-MAR-2010 19:06
Instrument: MSD8.1
Client Sample ID: RE15-10-8317MS

Compound: Benzyl alcohol
CAS Number: 100-51-6



Data File: /chem/MSDB.1/s030210.b/s8c0221.d
Injection Date: 02-MAR-2010 19:06
Instrument: MSD8.1
Client Sample ID: RE15-10-8317MS

Compound: Benzyl alcohol
CAS Number: 100-51-6



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1982**

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: 957200

Prep Batch Number: 957199

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
247791002	RE15-10-8317
247791003	RE15-10-8319
247791004	RE15-10-8316
247791005	RE15-10-8326
247791006	RE15-10-8318
1202052406	Method Blank (MB)
1202052407	Laboratory Control Sample (LCS)
1202052408	247799001(RE46-10-13335) Matrix Spike (MS)
1202052409	247799001(RE46-10-13335) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

10-1982-EXPLCMS

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Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Client sample 247799001 (RE46-10-13335) from SDG 10-1990 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection 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

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Client sample 247799001 (RE46-10-13335) from SDG 10-1990 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

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 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

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct. Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data. Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

10-1982-EXPLCMS

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System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

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

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

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

Reviewer: Herbert M. Mauer Date: 03/17/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314018a

Date Analyzed: 14-MAR-10 23:20

Units: ug/kg

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

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050043.wiff

Date Analyzed: 06-MAR-10 04:07

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314019a

Date Analyzed: 14-MAR-10 23:49

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050044.wiff

Date Analyzed: 06-MAR-10 04:22

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314020a

Date Analyzed: 15-MAR-10 00:19

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Molsture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050045.wiff

Date Analyzed: 06-MAR-10 04:38

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amoun		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314021a

Date Analyzed: 15-MAR-10 00:48

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050046.wiff

Date Analyzed: 06-MAR-10 04:54

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Moisture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314022a

Date Analyzed: 15-MAR-10 01:17

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Moisture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050047.wiff

Date Analyzed: 06-MAR-10 05:09

Units: ug/kg

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

*Concentration =

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247791002	RE15-10-8317	100	70 - 144	
247791002	RE15-10-8317	104	70 - 144	
247791003	RE15-10-8319	99	70 - 144	
247791003	RE15-10-8319	110	70 - 144	
247791004	RE15-10-8316	97	70 - 144	
247791004	RE15-10-8316	108	70 - 144	
247791005	RE15-10-8326	102	70 - 144	
247791005	RE15-10-8326	109	70 - 144	
247791006	RE15-10-8318	101	70 - 144	
247791006	RE15-10-8318	111	70 - 144	
1202052406	MB for batch 957199	96.3	70 - 144	
1202052406	MB for batch 957199	105	70 - 144	
1202052407	LCS for batch 957199	100	70 - 144	
1202052407	LCS for batch 957199	104	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) 10-1982

Extract Batch Code: 957199

Date Extracted: 01-MAR-10

GEL LCS ID: 1202052407

GEL LCSDUP ID:

Analysis Date/Time: 14-MAR-10 21:22

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
m-Nitrotoluene	5000	5320	106					73 - 118
2,6-Dinitrotoluene	5000	4880	97.7					89 - 120
4-Amino-2,6-dinitrotoluene	5000	4500	90.1					84 - 130
Nitrobenzene	5000	4740	94.8					71 - 122
m-Dinitrobenzene	5000	4790	95.7					83 - 122
Tetryl	5000	2850	57					51 - 112
RDX	5000	4410	88.2					81 - 137
PETN	5000	5070	101					64 - 137
HMX	5000	4500	90.1					58 - 138
2-Amino-4,6-dinitrotoluene	5000	4580	91.7					90 - 130
2,4-Dinitrotoluene	5000	4970	99.4					87 - 137
o-Nitrotoluene	5000	5010	100					72 - 119
1,3,5-Trinitrobenzene	5000	3610	72.3					69 - 126
2,4,6-Trinitrotoluene	5000	4600	92.1					73 - 149
p-Nitrotoluene	5000	4760	95.2					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) 10-1982

Extract Batch Code: 957199

Date Extracted: 01-MAR-10

GEL LCS ID: 1202052407

GEL LCSDUP ID:

Analysis Date/Time: 06-MAR-10 03:04

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	4910	98.2					52 ~ 114
2,6-Diamino-4-nitrotoluene	5000	5290	106					64 ~ 122
TATB	5000	5390	108					28 ~ 162
3,5-Dinitroaniline	5000	5210	104					70 ~ 127
tris(o-cresyl) phosphate	5000	5000	100					84 ~ 119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

3
High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE46-10-13335

Lab Code: GEL

GEL Job No (SDG) 10-1982

Extract Batch Code: 957199

Date Extracted: 01-MAR-10

GEL Spike ID: 1202052408

GEL SpikeDup ID: 1202052409

Analysis Date/Time: 15-MAR-10 03:45

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	4220	84.4	4240	84.7	.405	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	4980	99.6	5070	101	1.79	30	76 - 144
2,4-Dinitrotoluene	5000	0	5140	103	4860	97.2	5.6	30	86 - 135
2,6-Dinitrotoluene	5000	0	4860	97.3	4680	93.6	3.82	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	5190	104	5150	103	.769	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	4720	94.4	4620	92.3	2.21	30	72 - 143
HMX	5000	0	4230	84.6	4760	95.2	11.7	30	51 - 144
Nitrobenzene	5000	0	4740	94.8	4760	95.3	.475	30	70 - 122
PETN	5000	0	4650	93.1	4630	92.6	.503	30	60 - 140
RDX	5000	0	4310	86.2	4870	97.4	12.2	30	59 - 152
Tetryl	5000	0	4850	97	4550	90.9	6.46	30	36 - 124
m-Dinitrobenzene	5000	0	4540	90.8	4480	89.6	1.24	30	85 - 118
m-Nitrotoluene	5000	0	4420	88.3	4160	83.3	5.88	30	70 - 120
o-Nitrotoluene	5000	0	4700	93.9	4410	88.2	6.31	30	69 - 123
p-Nitrotoluene	5000	0	4330	86.7	4220	84.5	2.58	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: RE46-10-13335

Lab Code: GEL

GEL Job No (SDG) 10-1982

Extract Batch Code: 957199

Date Extracted: 01-MAR-10

GEL Spike ID: 1202052408

GEL SpikeDup ID: 1202052409

Analysis Date/Time: 06-MAR-10 06:28

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
2,6-Diamino-4-nitrotoluene	5000	0	4980	99.6	5010	100	.601	30	55 - 130
3,5-Dinitroaniline	5000	0	5230	105	5170	103	1.15	30	73 - 129
TATB	5000	0	5610	112	5060	101	10.3	30	29 - 155
2,4-Diamino-6-nitrotoluene	5000	0	4550	91	4570	91.4	.439	26	34 - 135
tris(o-cresyl) phosphate	5000	0	5180	104	5080	102	1.95	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): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 14-MAR-10 14:59

GEL Data File: EXP0314001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5µ ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	427.53
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	451.034
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
 3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031410expa.mdb, Time: Mon Mar 15 09:25:32 2010
 Calibration: Untitled, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314001a

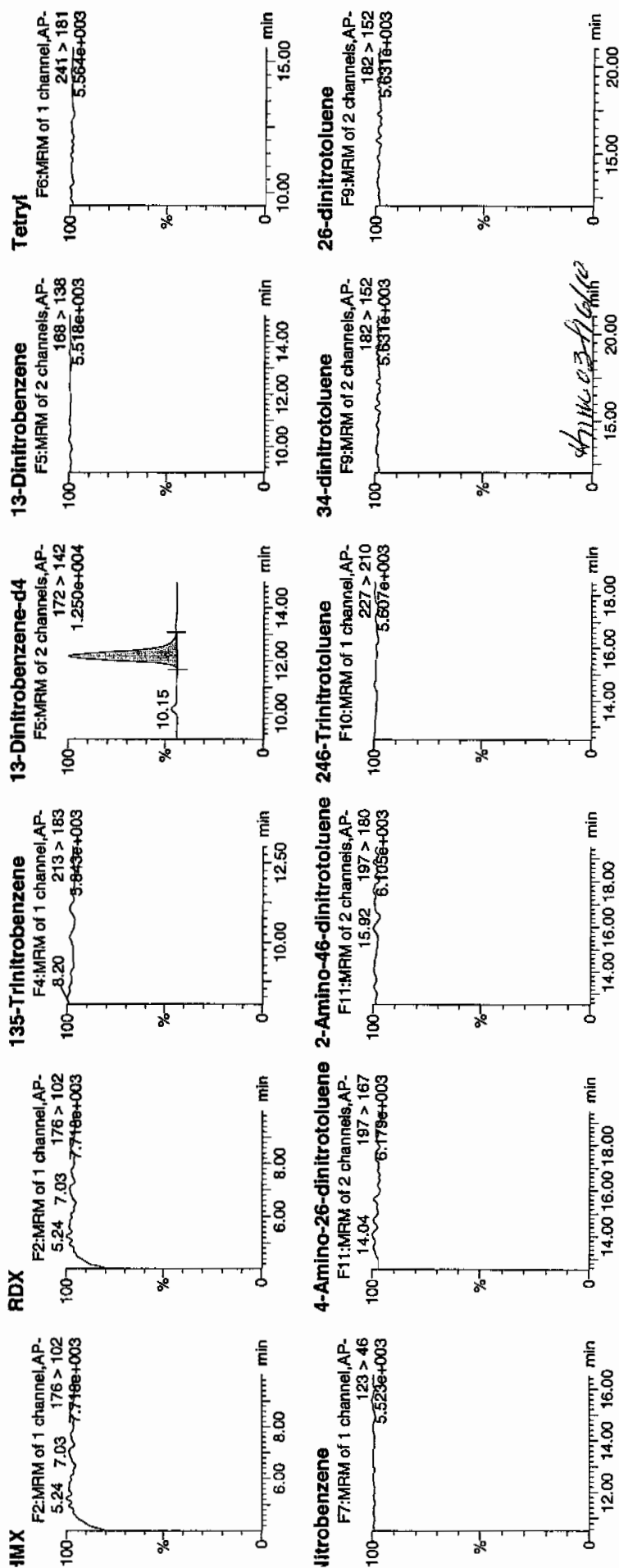
Date: 14-Mar-2010

Time: 14:59:01

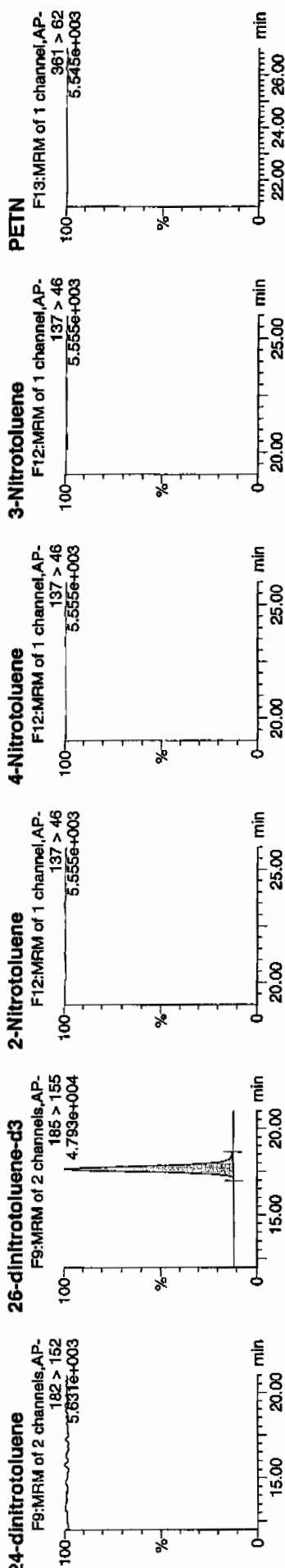
D: XIBLK01

/lat: 1:1,A

Handwritten: 10.15



Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

[illegible]

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 14-MAR-10 15:28

GEL Data File: EXP0314002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	459.668
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
1,3-Dinitrobenzene-d4	500	439.79
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0

Quantity Sample Report
3EL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0314002a

Date: 14-Mar-2010

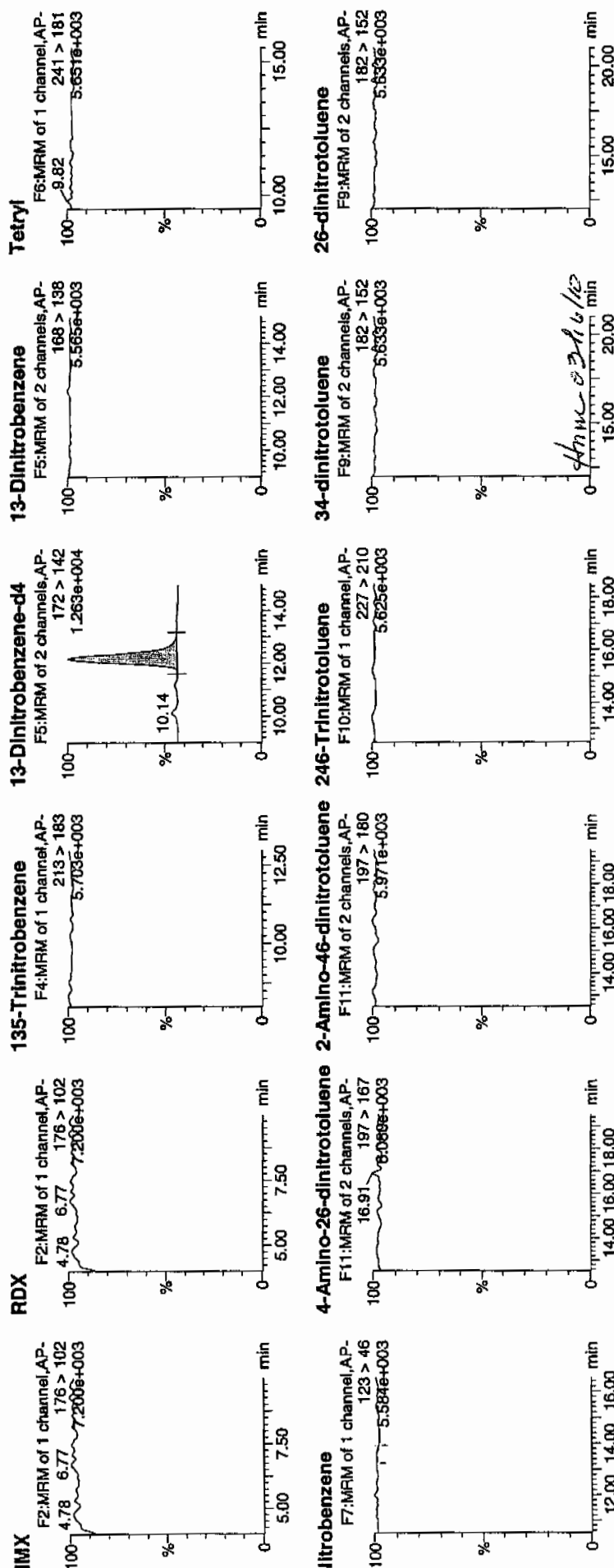
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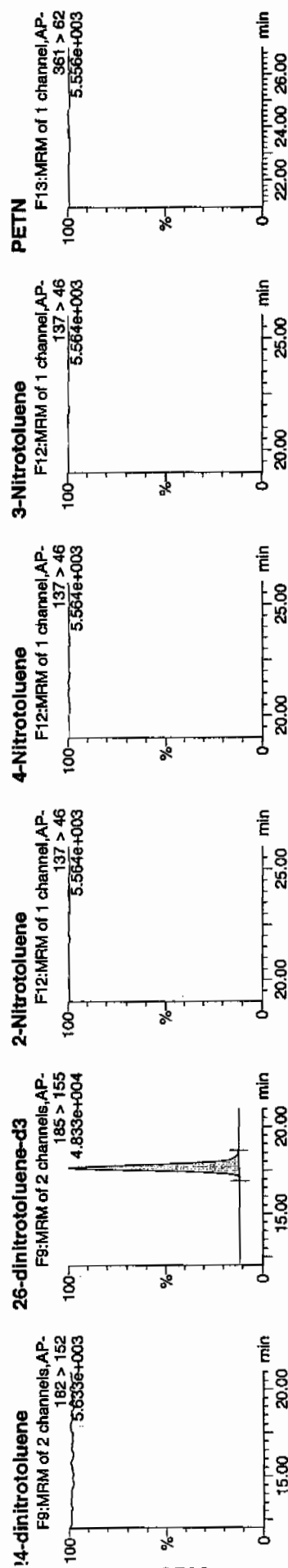
D: XIBLK01

File: 1:1,A

3/15/10
M.A.P.

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Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-MAR-10 17:07

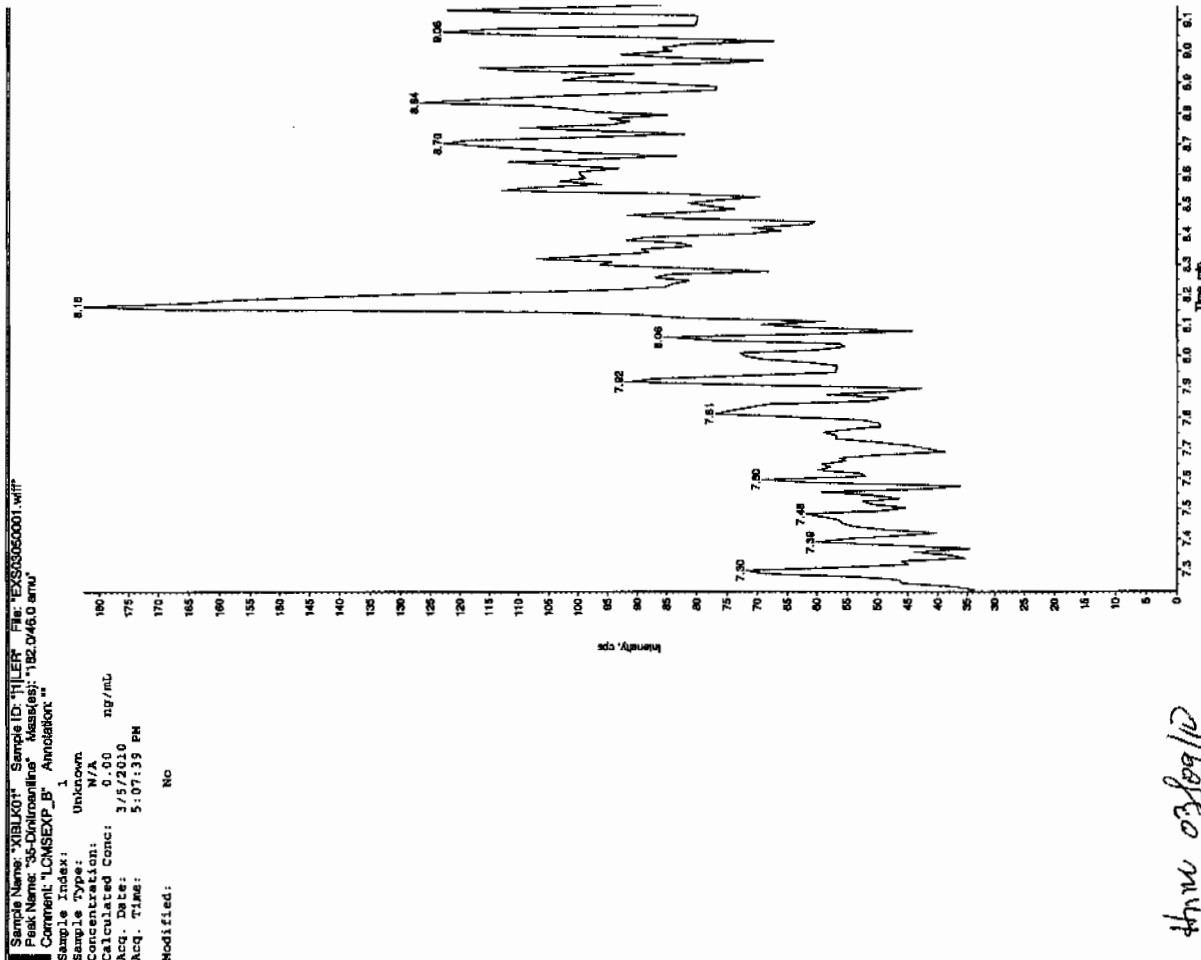
GEL Data File: EXS03050001.wiff

Instrument ID: LCMSMS

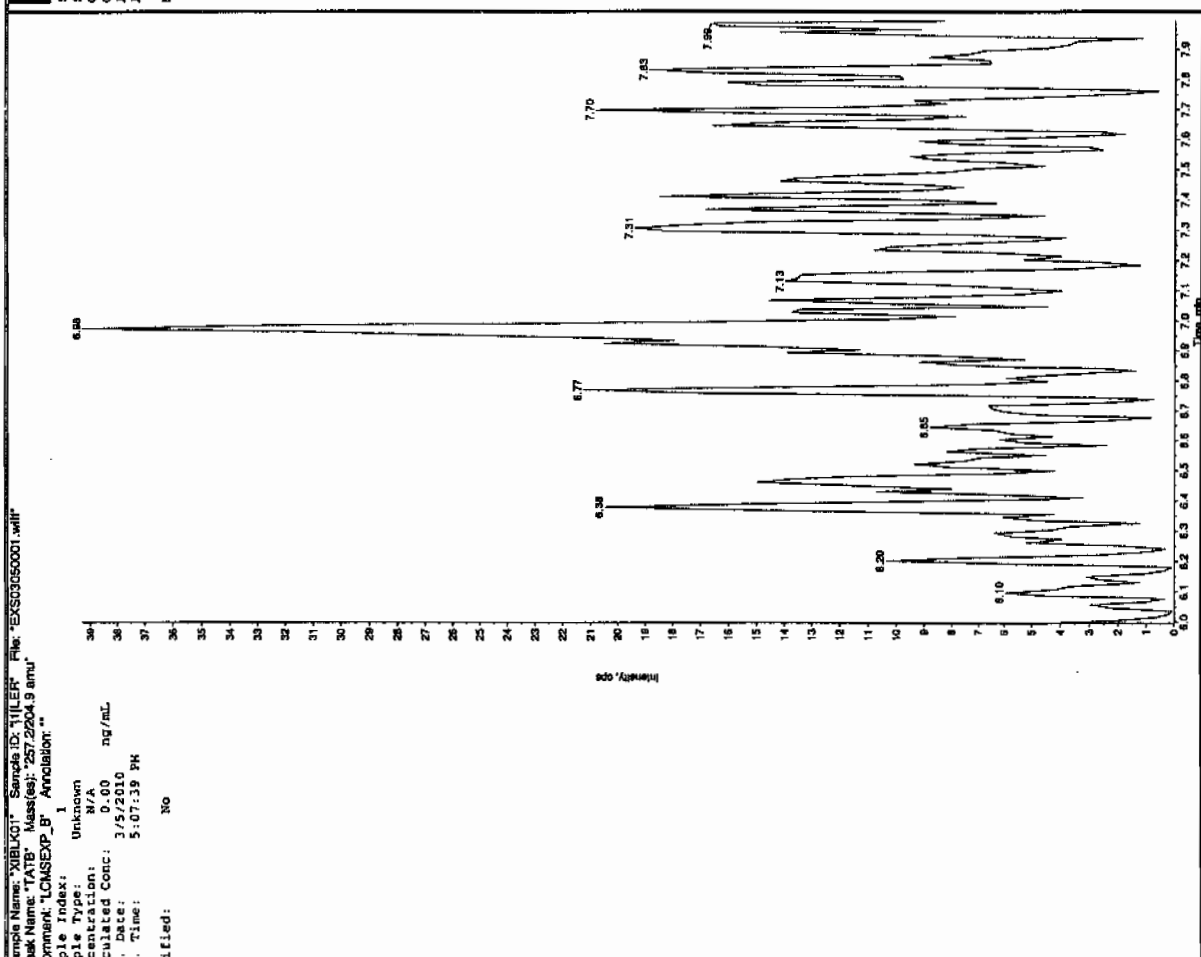
Column: Phenomenex Ultracarb 5u ODS(20)

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

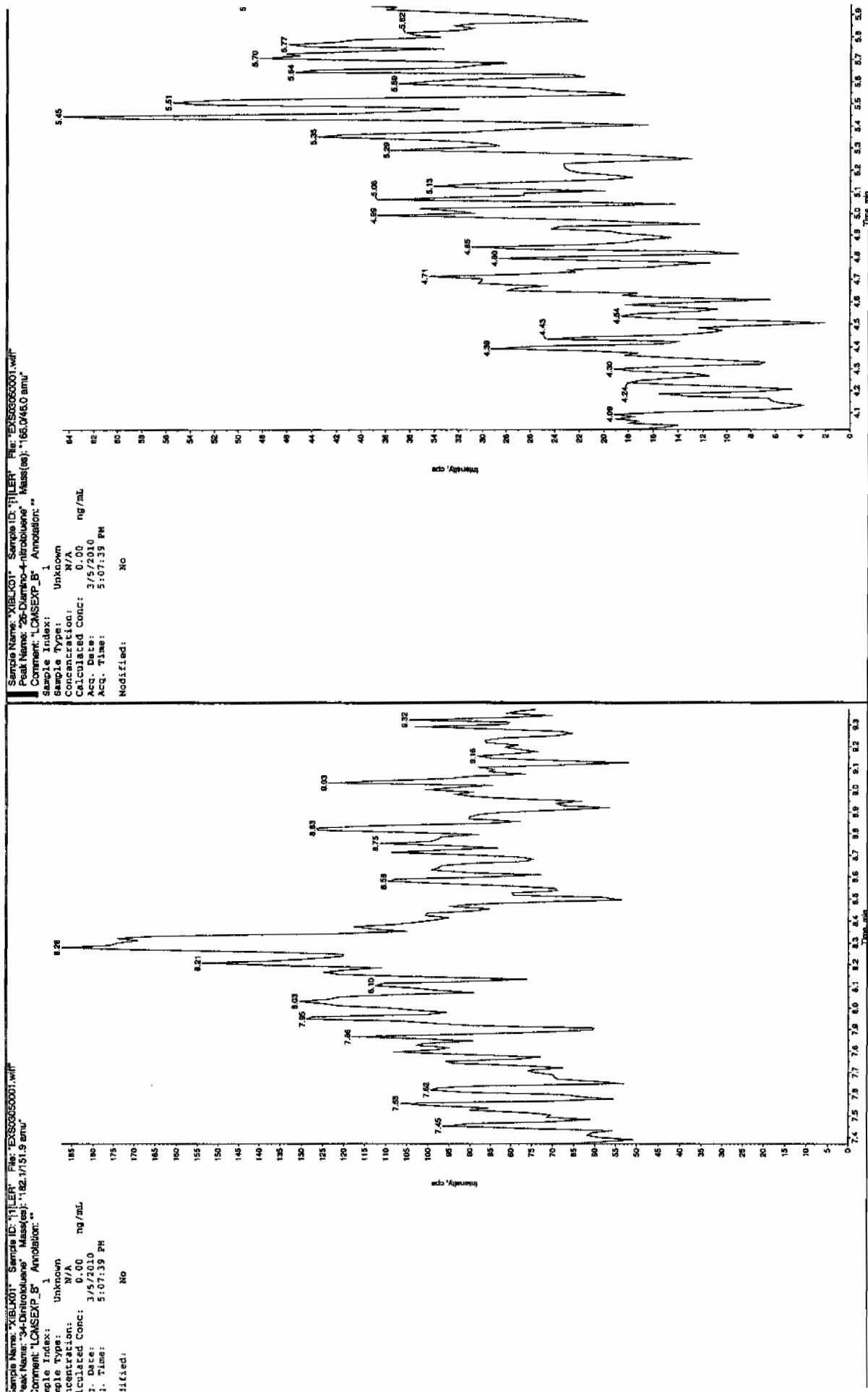
Jan 31/10



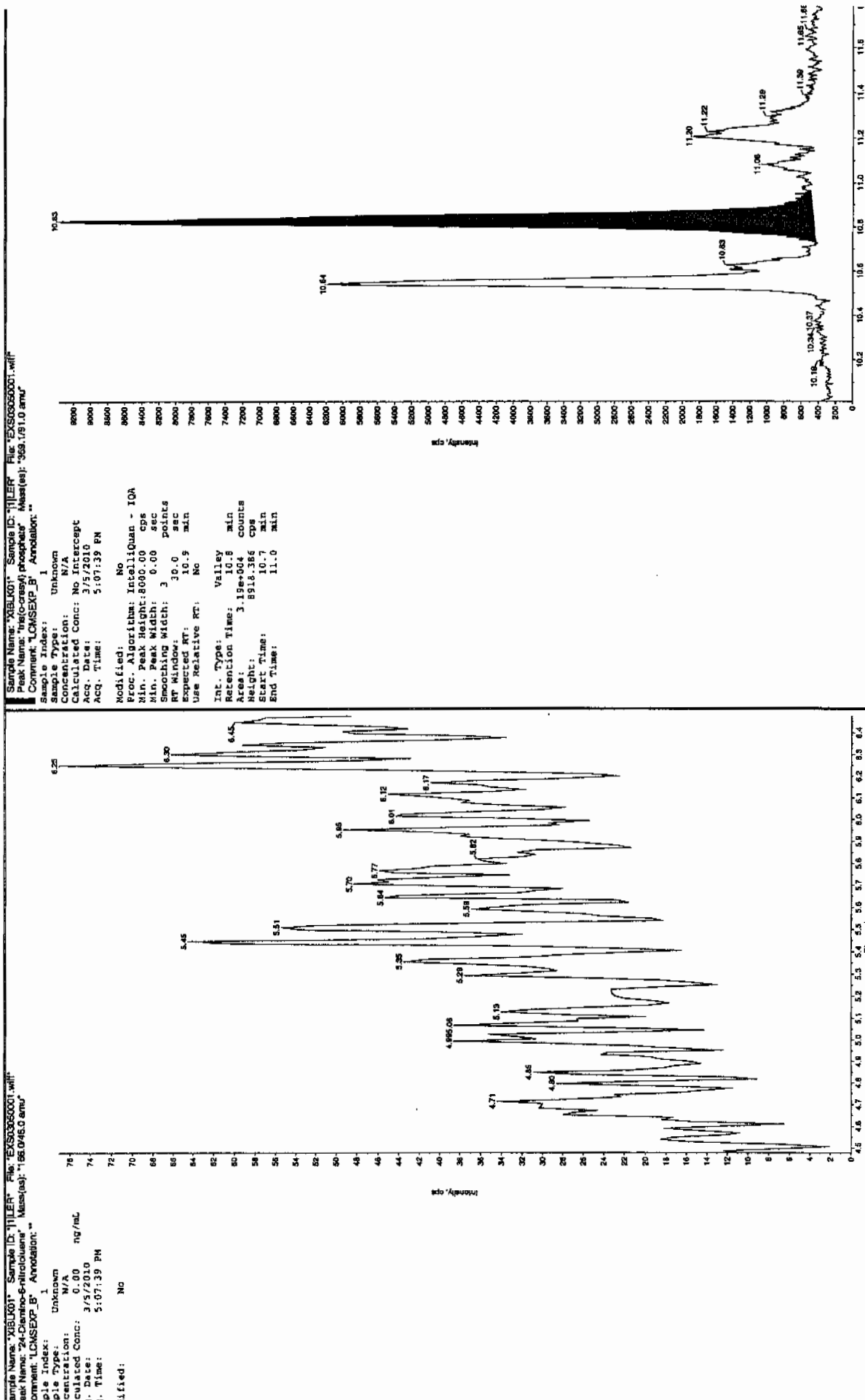
4/10 03/09/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 05-MAR-10 17:23

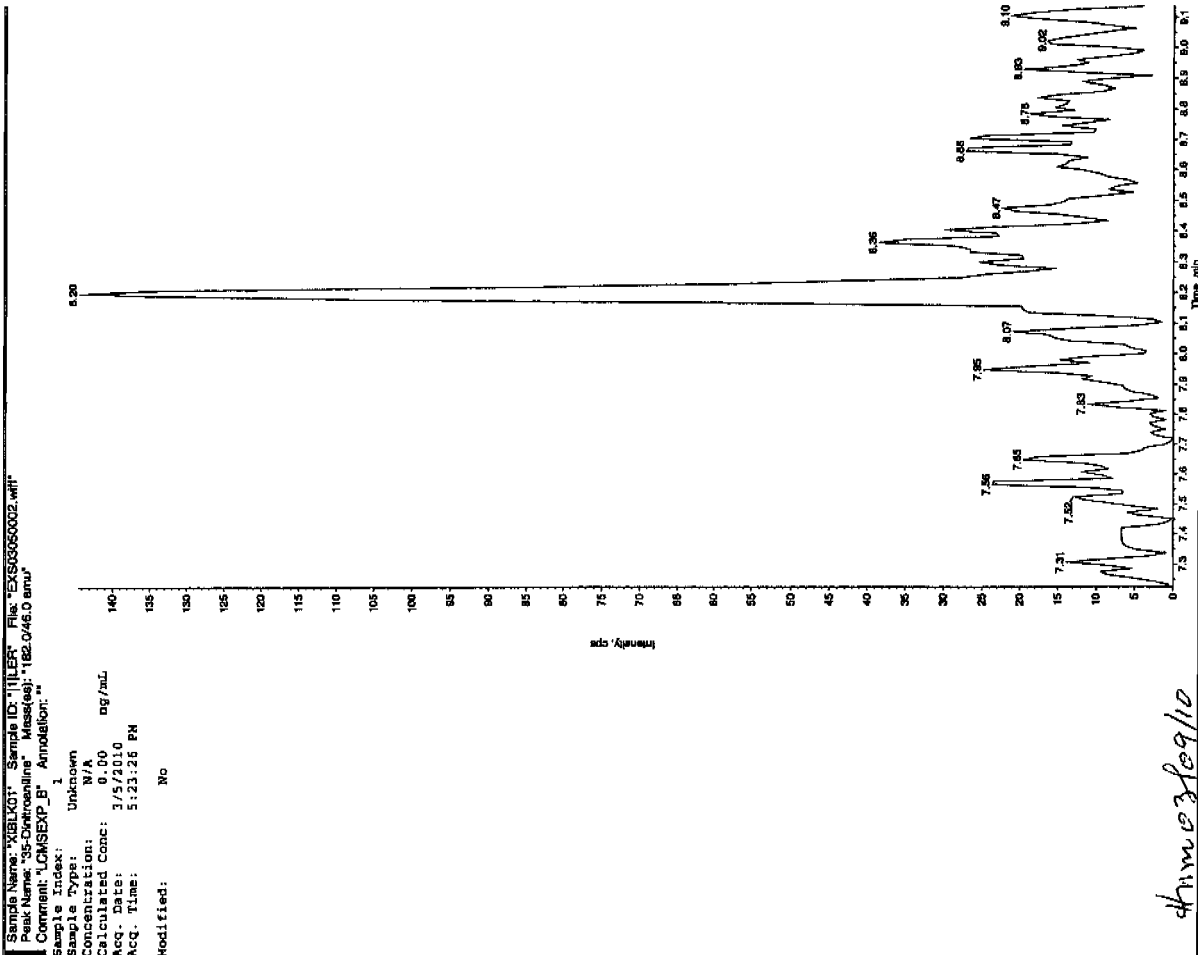
GEL Data File: EXS03050002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

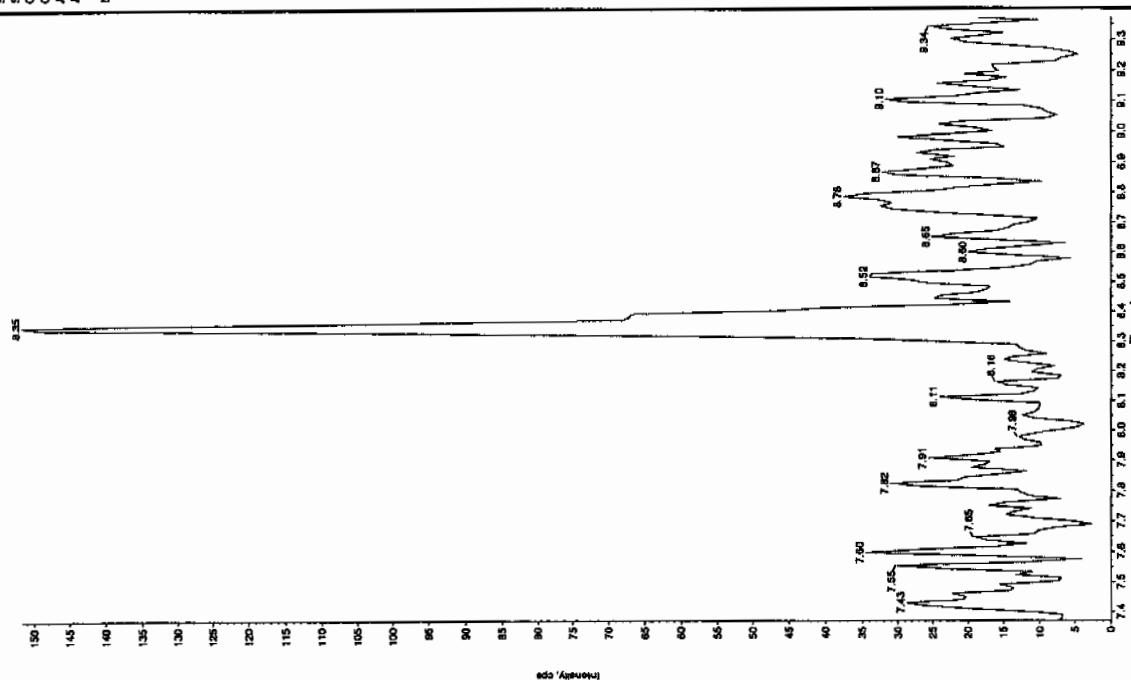
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

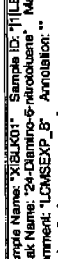
Jan 31/10



Sample Name: "XIBLK01" Sample ID: "JILLER" File: "EX03050002.wif"
 Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 5:23:26 PM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 14-MAR-10 18:54

GEL Data File: EXP0314009a

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	430.467
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	459.165
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

uantify Sample Report

EL Laboratories, LLC / Analyst: Michael A. Penny

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atset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

ame: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314009a

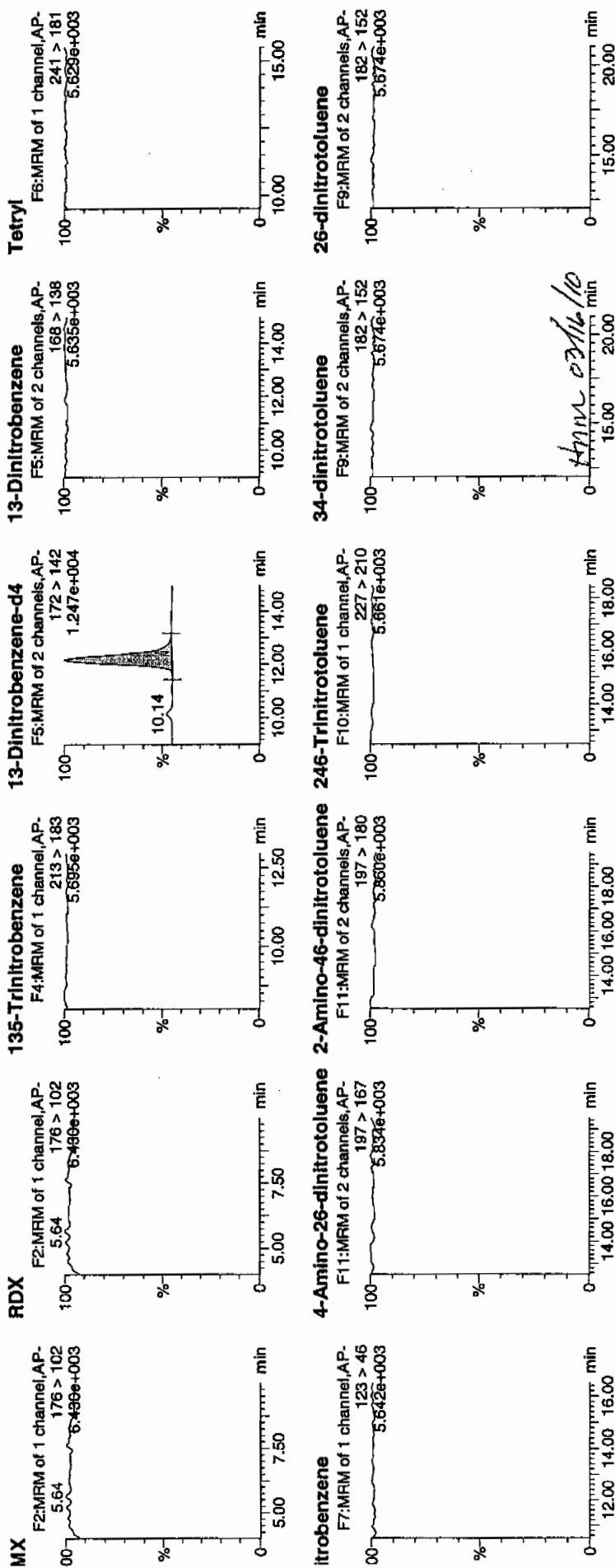
ate: 14-Mar-2010

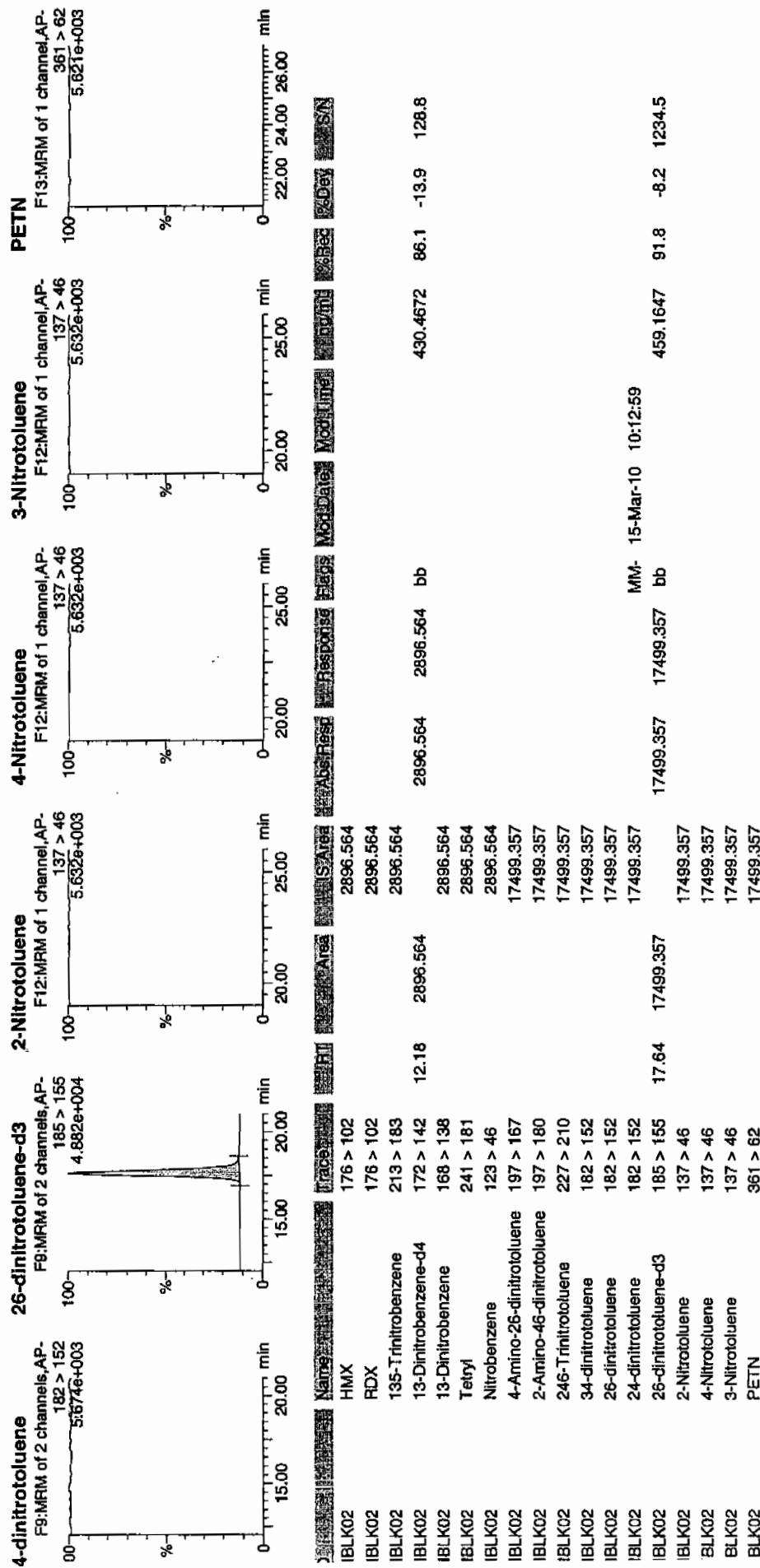
ime: 18:54:49

i: XIBLK02

al: 1:1,A

10/15/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 14-MAR-10 19:53

GEL Data File: EXP0314011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	441.78
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	488.086
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

Printed: Mon Mar 15 10:16:43 2010, Page 21 of 77

Quantify Sample Report
JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314011a

Date: 14-Mar-2010

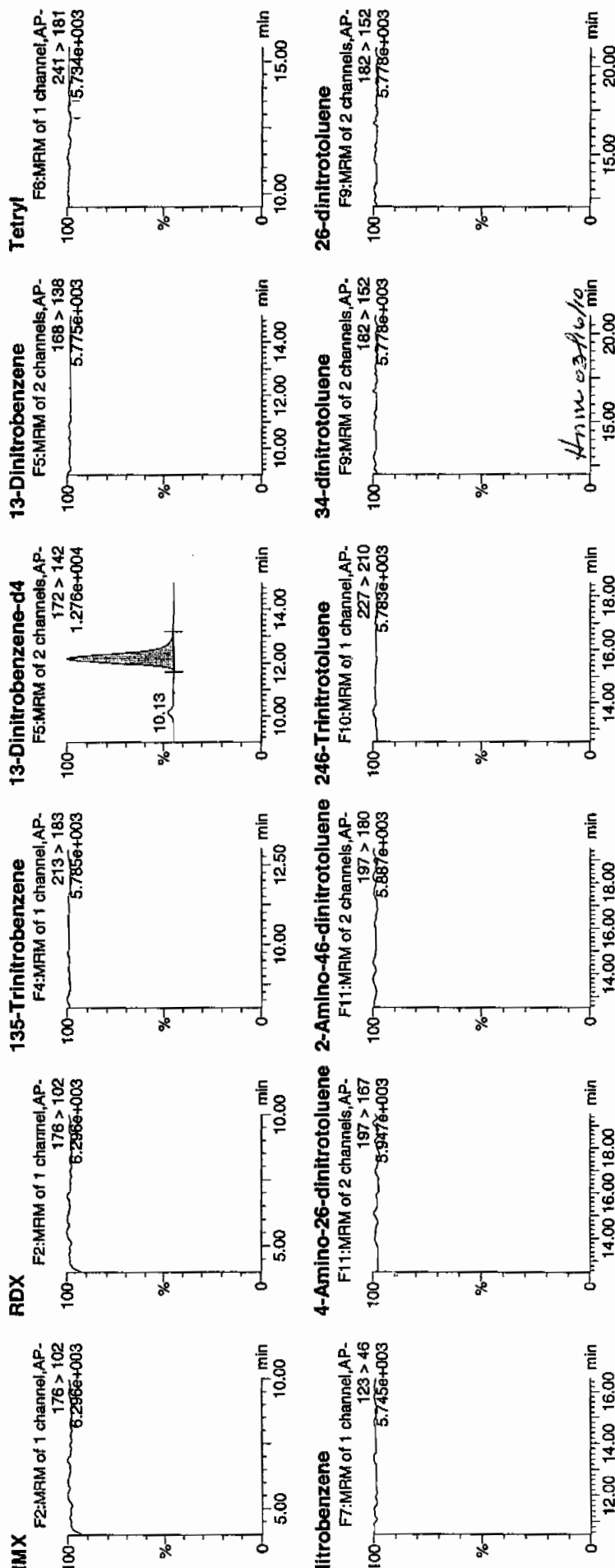
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ID: XIBLK03

/lal: 1:1,A

10/17
3/15/10

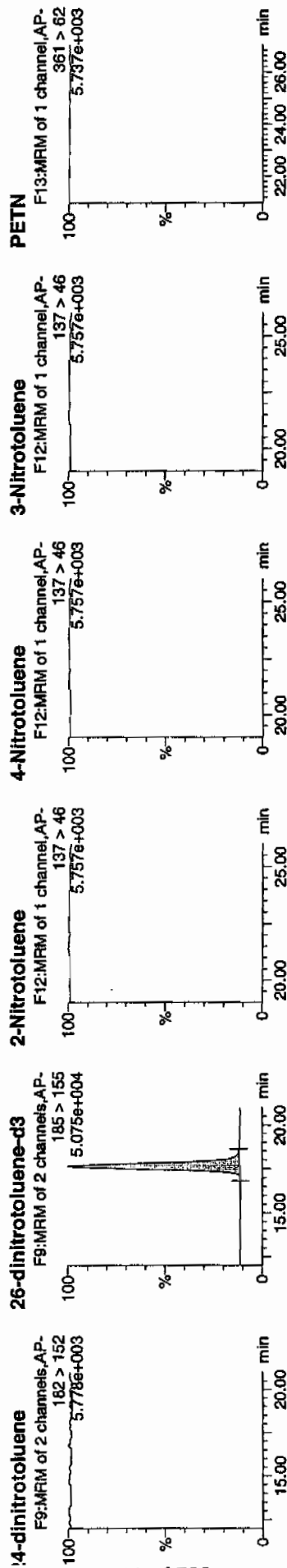
Page 443 of 793



Printed: Mon Mar 15 10:16:43 2010, Page 22 of 77

Quantify Sample Report
 JEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



Name	Area	Flags	Mod Date	Mod Time	% Rec	SN
4-dinitrotoluene	176 > 102					
26-dinitrotoluene-d3	176 > 102					
2-Nitrotoluene	2972.687					
4-Nitrotoluene	2972.687					
3-Nitrotoluene	2972.687					
PETN	2972.687					
4-dinitrotoluene	176 > 102					
26-dinitrotoluene-d3	176 > 102					
2-Nitrotoluene	2972.687					
4-Nitrotoluene	2972.687					
3-Nitrotoluene	2972.687					
PETN	2972.687					
4-dinitrotoluene	176 > 102					
26-dinitrotoluene-d3	176 > 102					
2-Nitrotoluene	2972.687					
4-Nitrotoluene	2972.687					
3-Nitrotoluene	2972.687					
PETN	2972.687					

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 15-MAR-10 02:17

GEL Data File: EXP0314024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

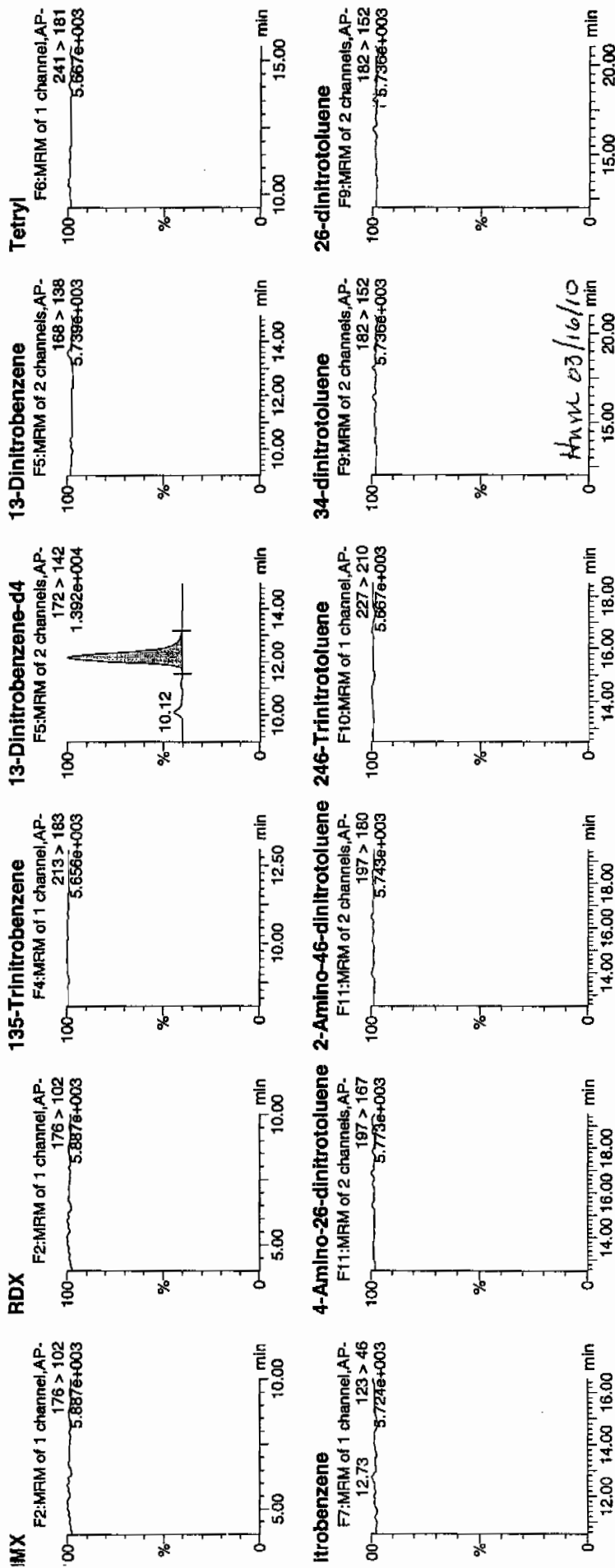
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	519.294
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	524.66
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDx	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

name: C:\MASSLYNX\NEW_EXP.PRO\DATA\EXP0314024a

ate: 15-Mar-2010

Time: 02:17:01

3: XIBLK04

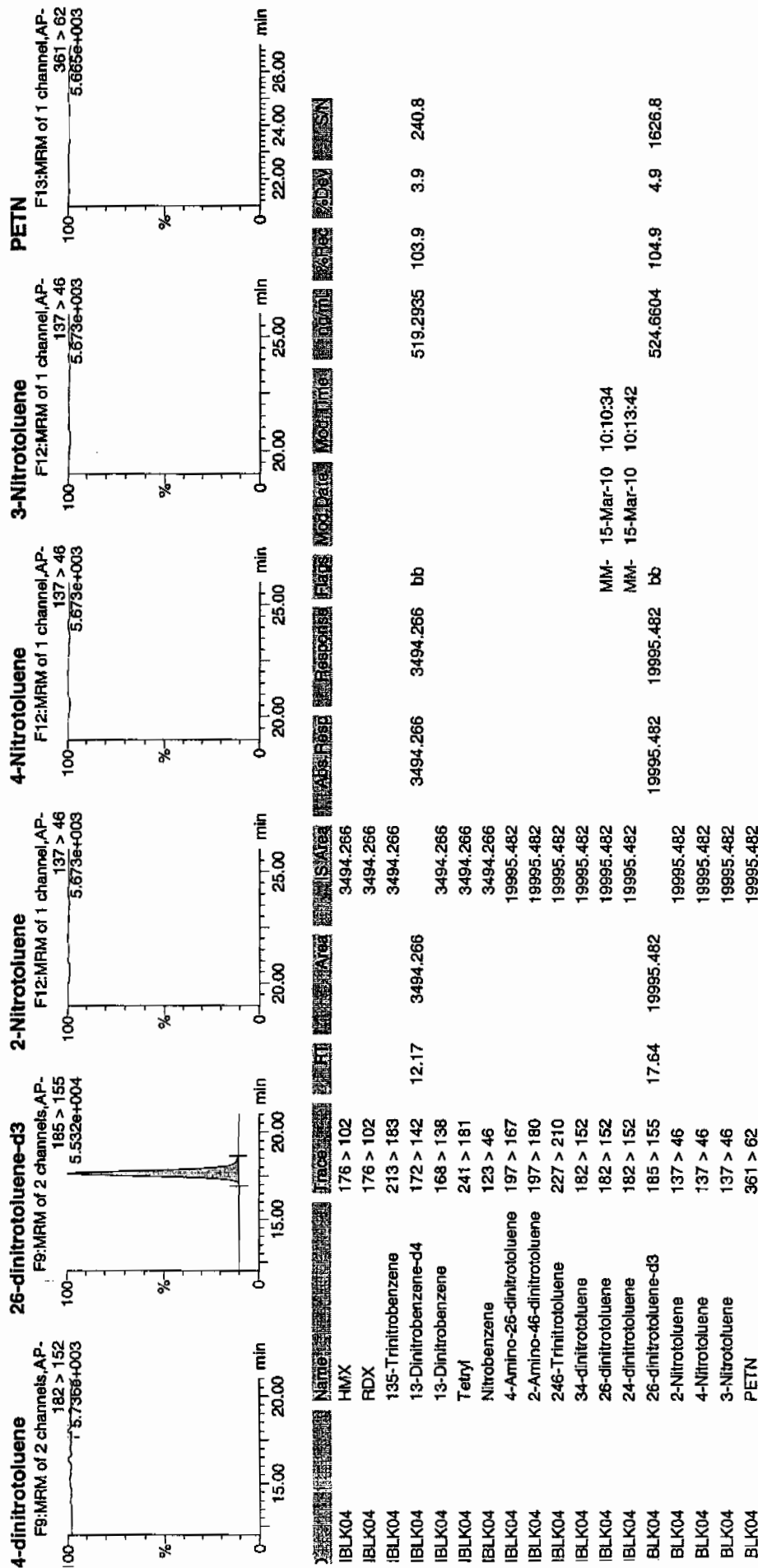
 $\lambda_1 : \lambda_2 = 1 : 1, A$ 

Quantify Sample Report

EL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 48 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 05-MAR-10 19:29

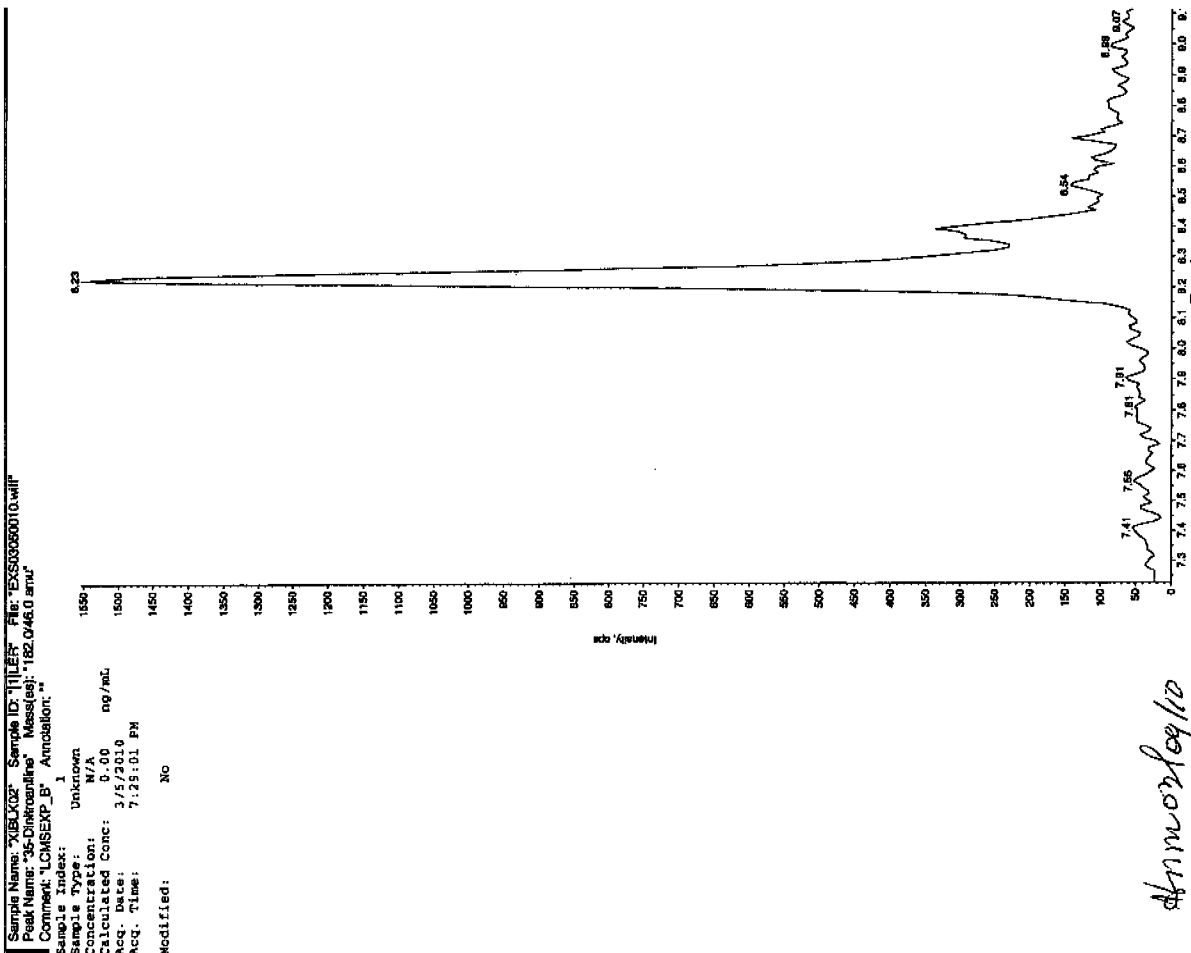
GEL Data File: EXS03050010.wiff

Instrument ID: LCMSMS

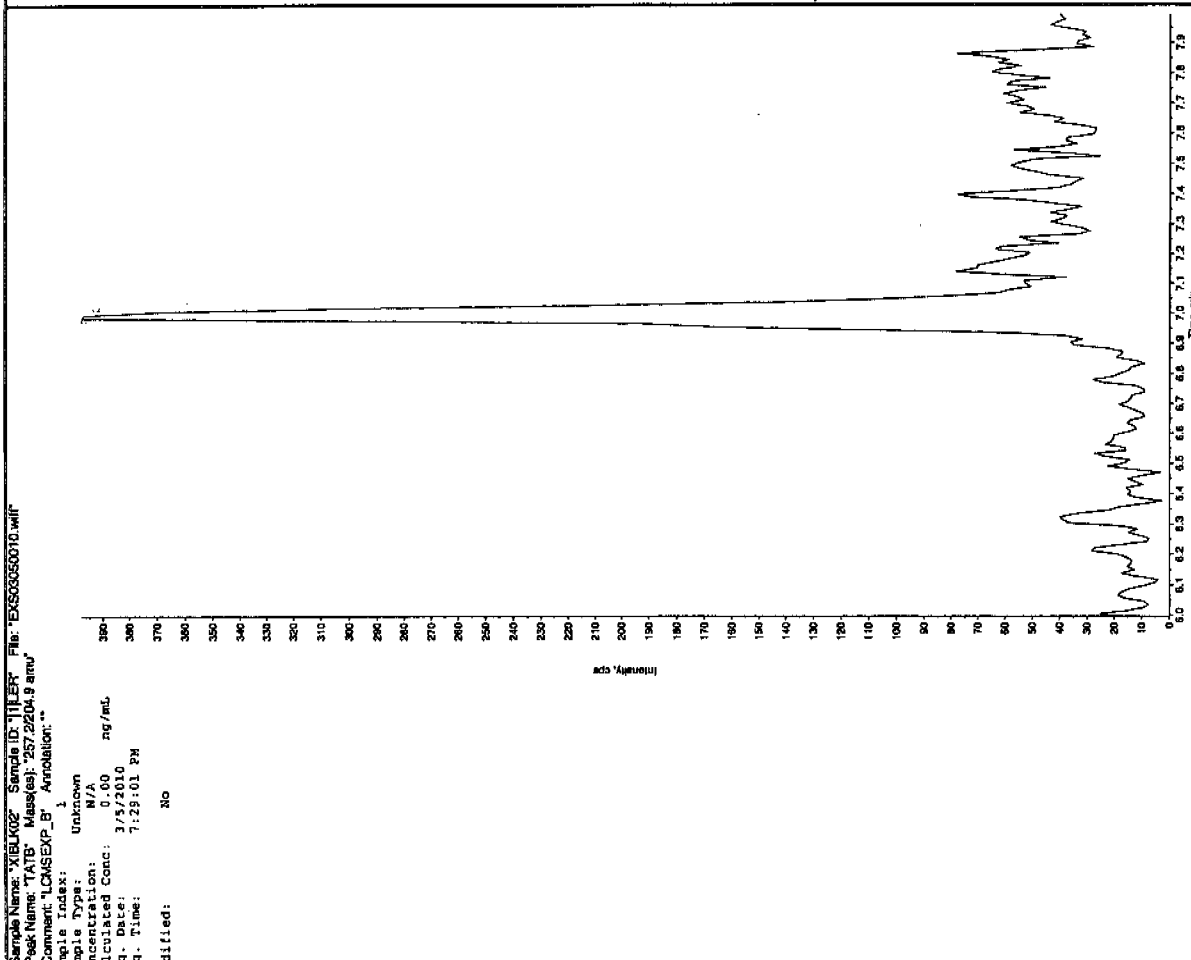
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.24
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/9/10



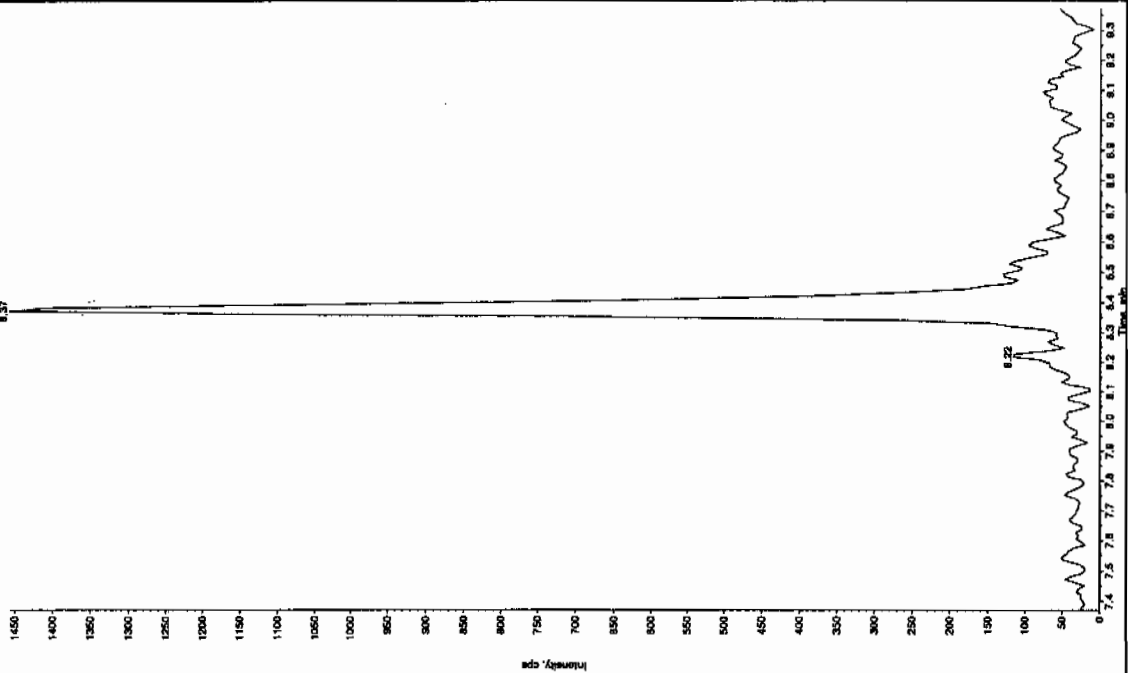
Ammonia 10



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

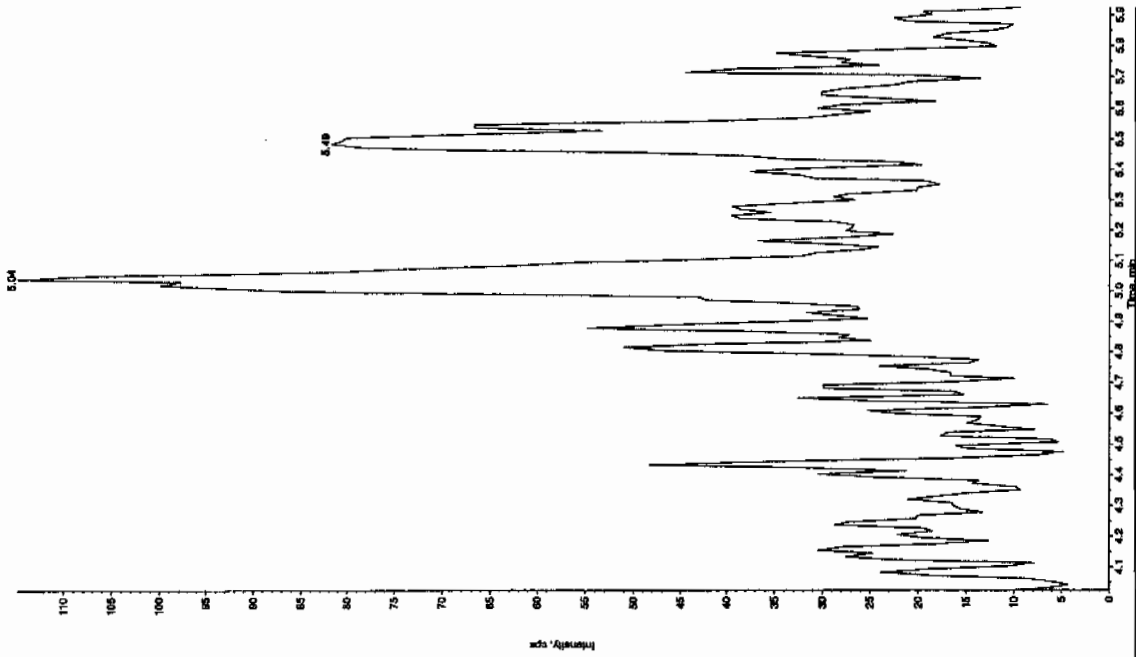
Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EX503050010.will"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/5/2010
 Acq. Time: 7:29:01 PM
 Modified: No

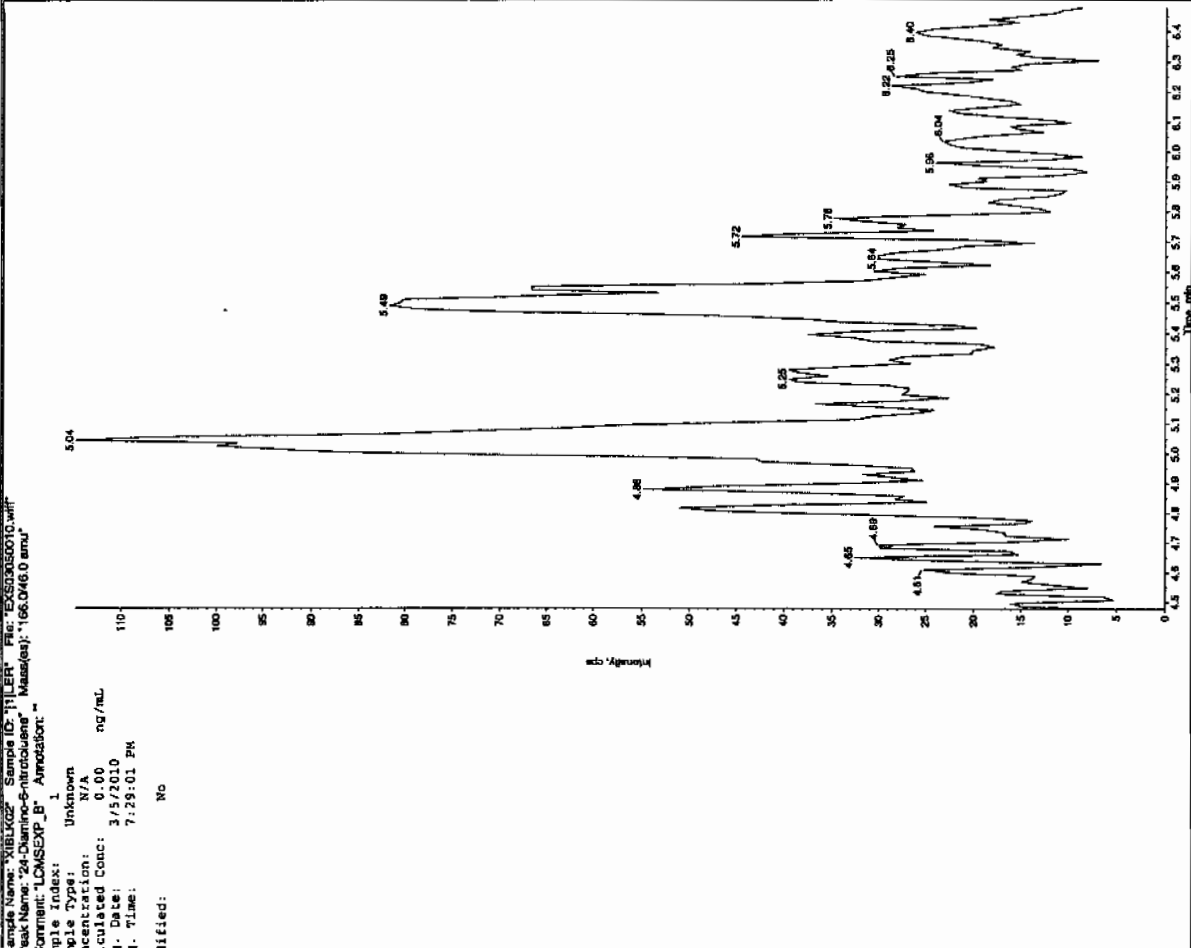
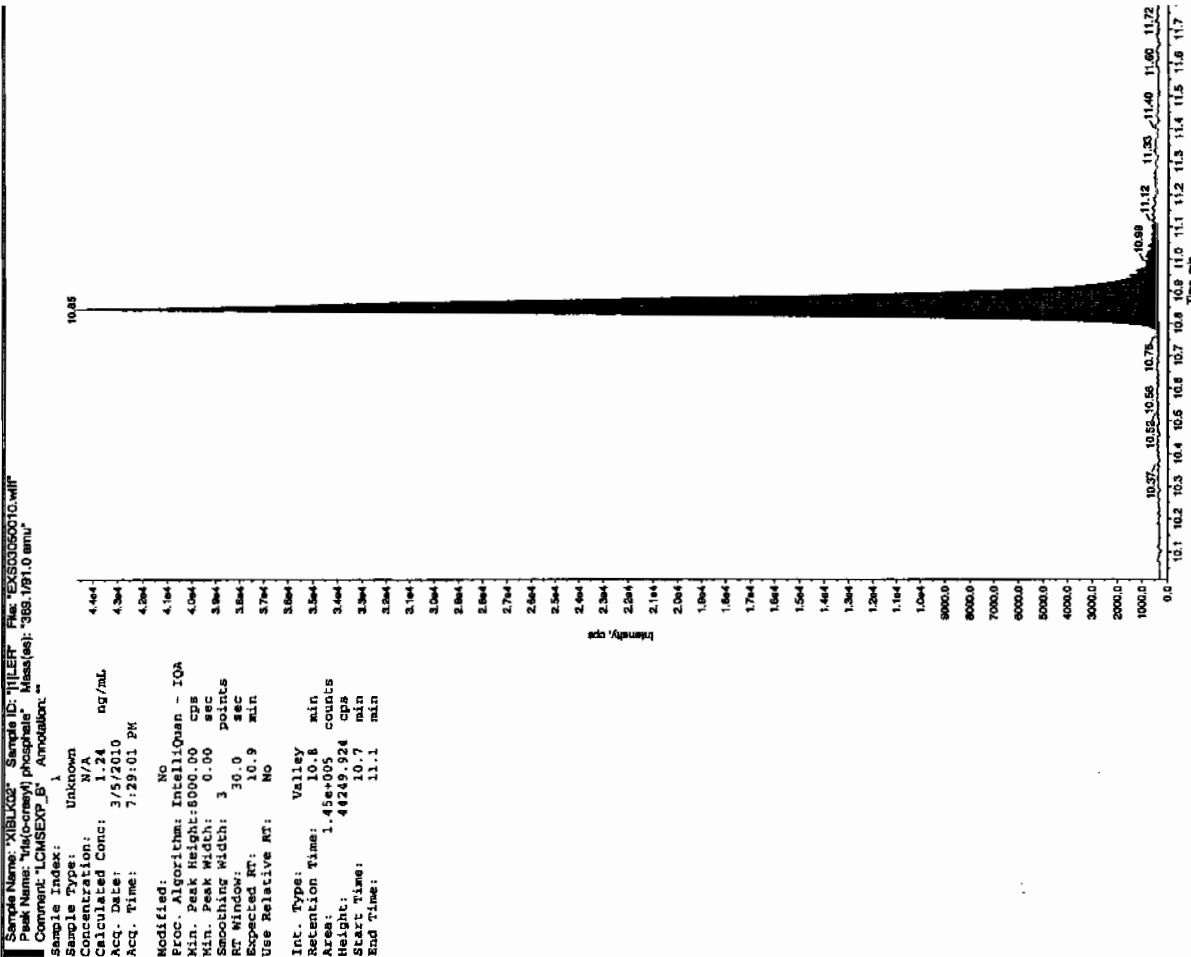


Sample Name: "XIBLK02" Sample ID: "1111ER" File: "EX503050010.will"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 3/5/2010
 Acq. Time: 7:29:01 PM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 05-MAR-10 20:00

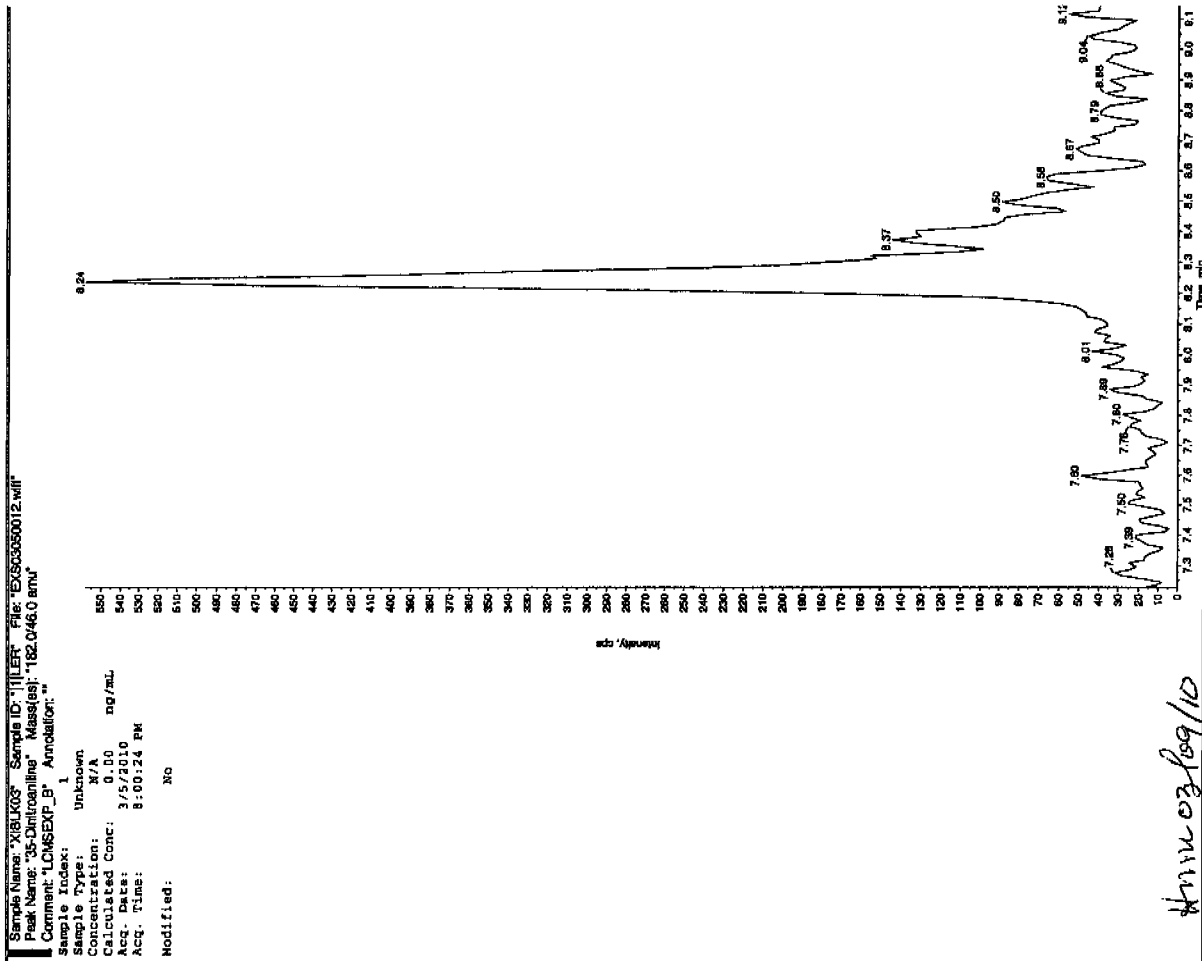
GEL Data File: EXS03050012.wiff

Instrument ID: LCMSMS

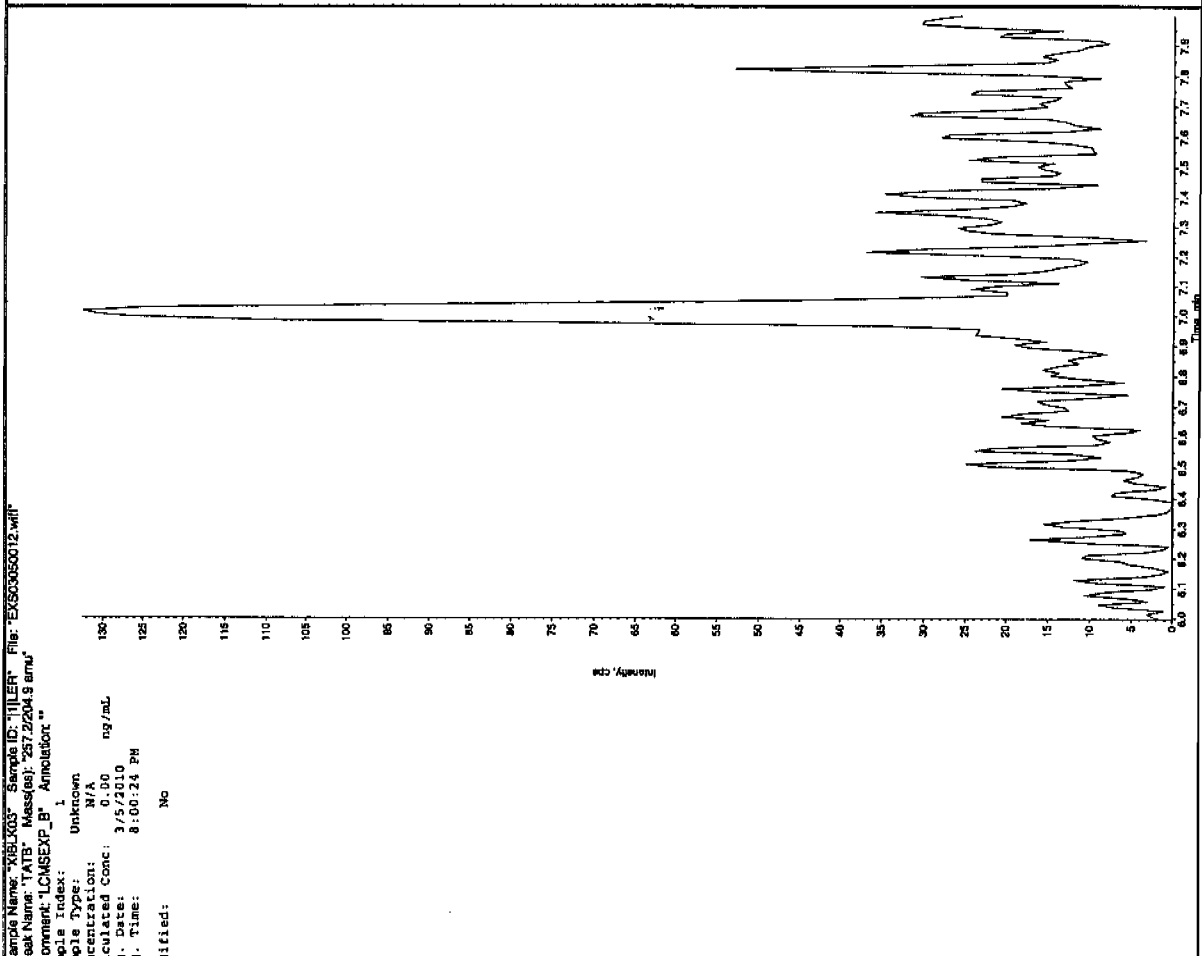
Column: Phenomenex Ultracarb 5u ODS(20)

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

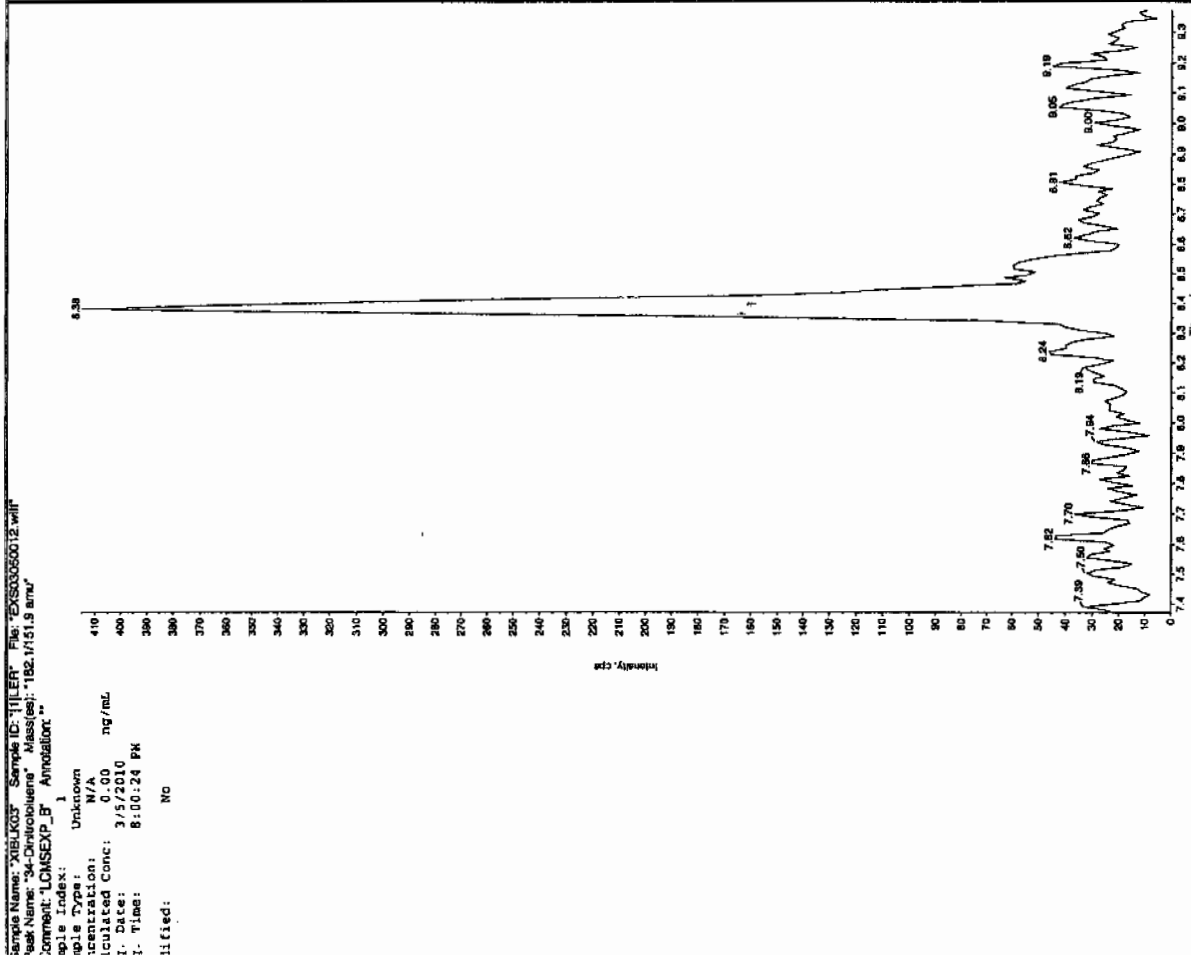
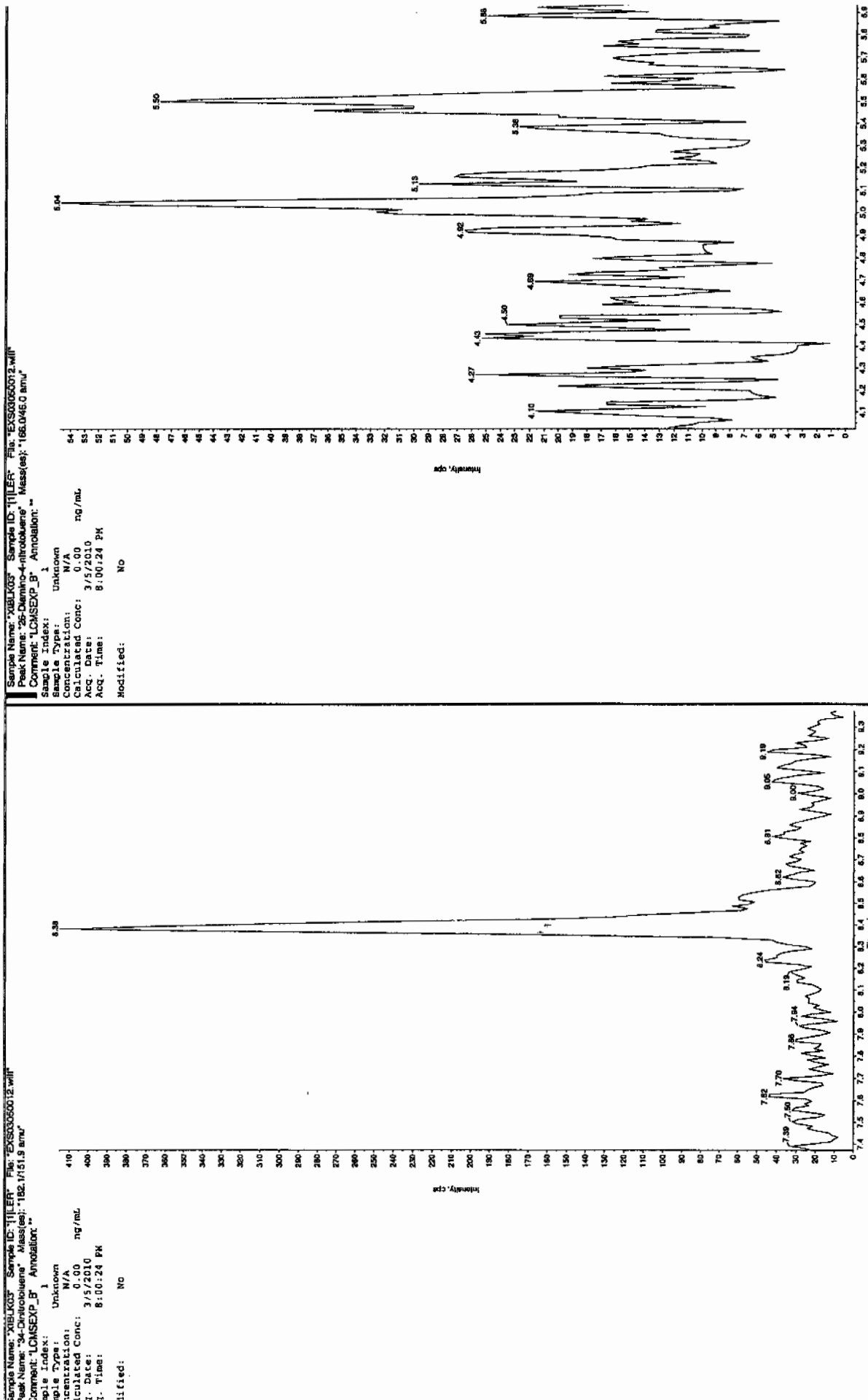
Sen 3/9/10

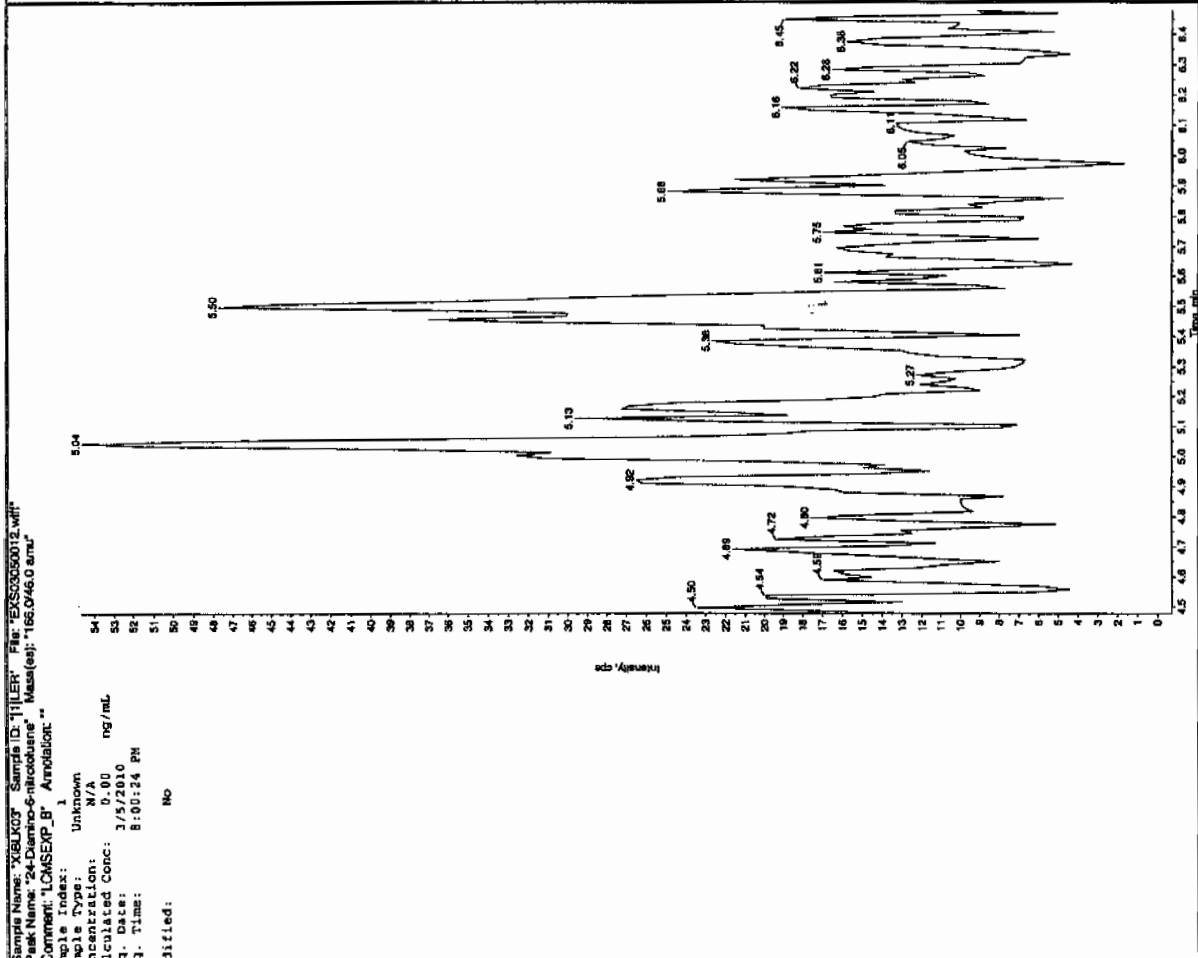
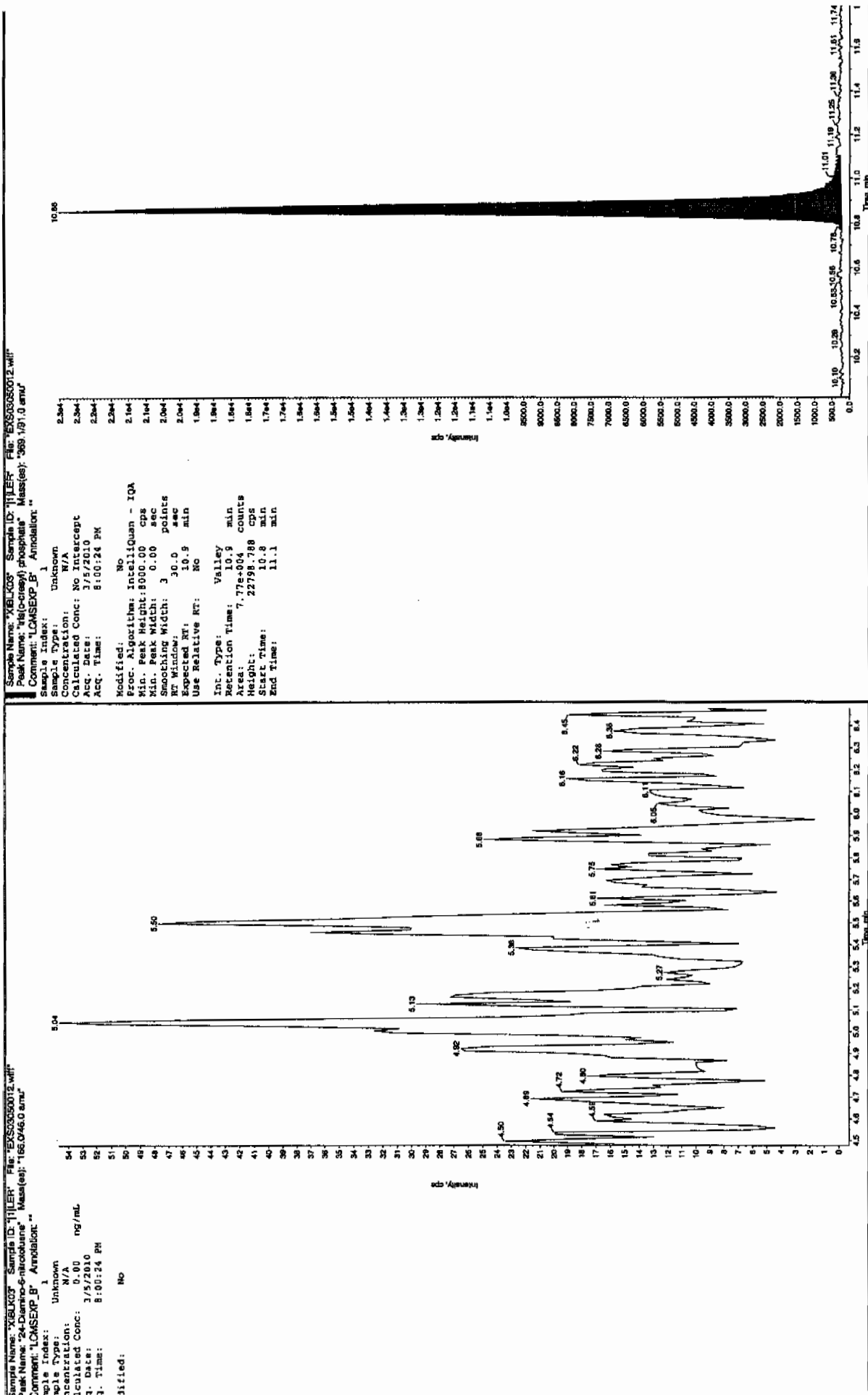


Amu 03/09/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 05-MAR-10 23:24

GEL Data File: EXS03050025.wiff

Instrument ID: LCMSMS

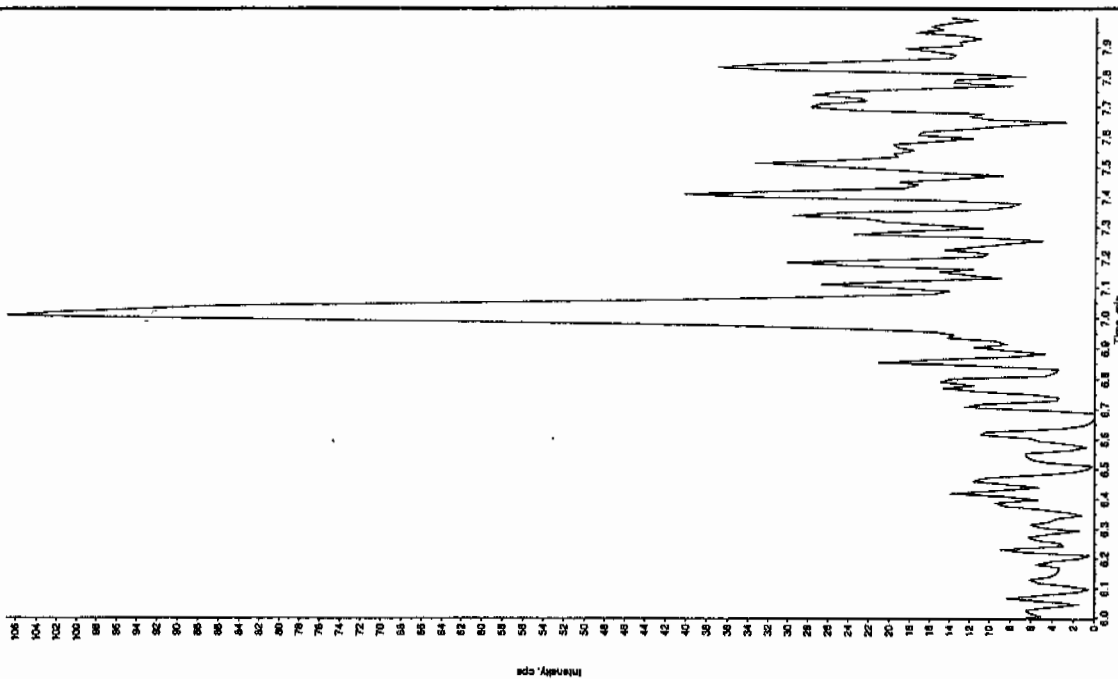
Column: Phenomenex Ultracarb 5u ODS(20)

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 3/9/10

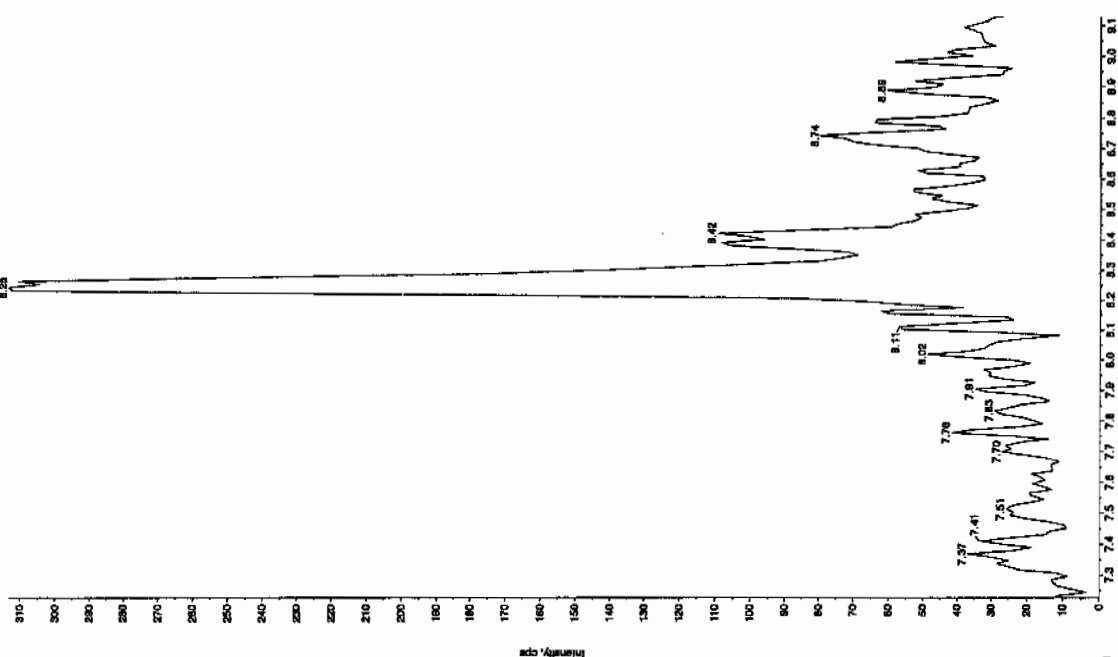
Sample Name: "XIBLX04" Sample ID: "TILER" File: "EXS03050025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 11:24:26 PM
 Modified: NG

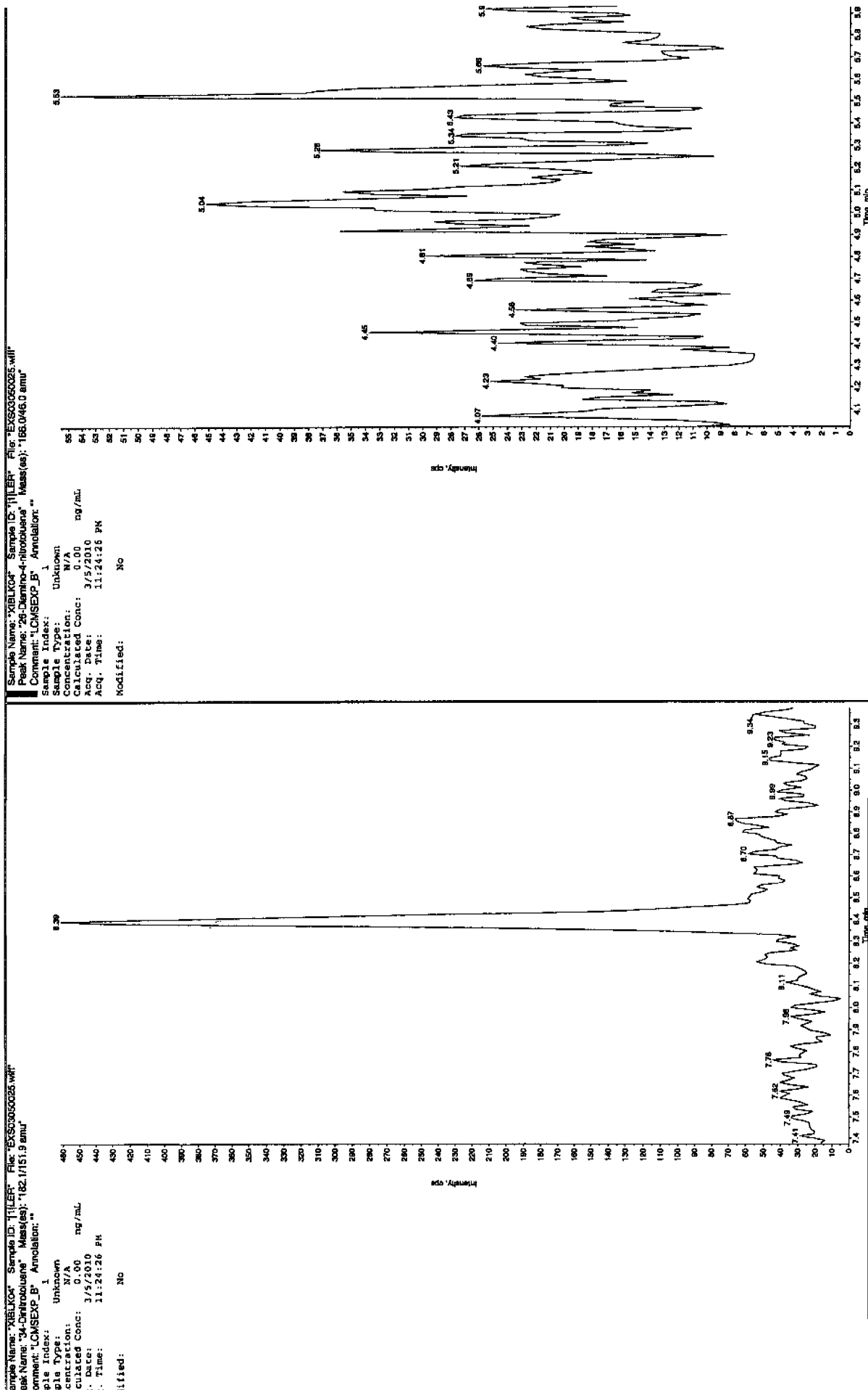


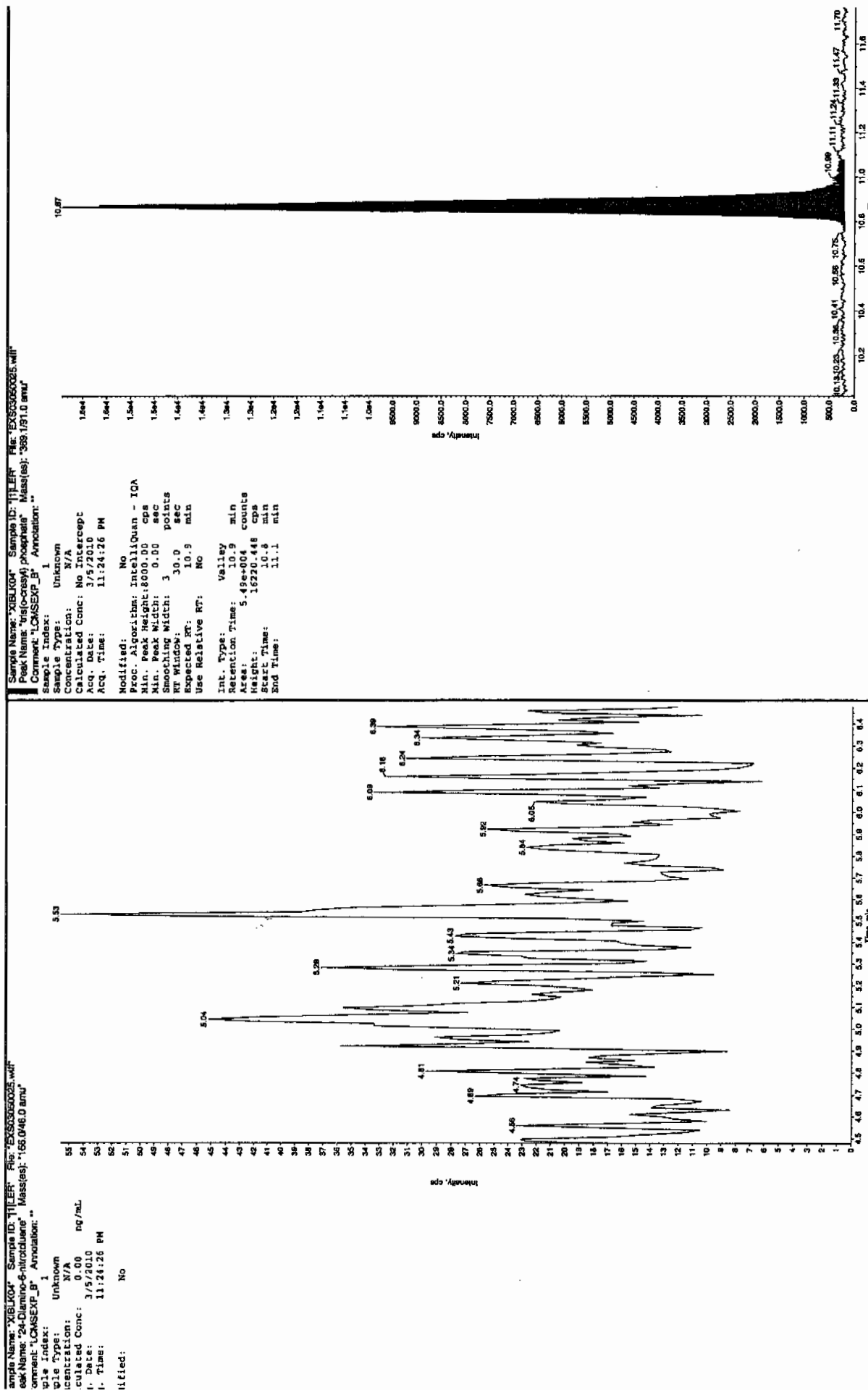
Sample Name: "XIBLX04" Sample ID: "TILER" File: "EXS03050025.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/5/2010
 Acq. Time: 11:24:26 PM
 Modified: NG



Run 03/04/10





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 06-MAR-10 02:17

GEL Data File: EXS03050036.wiff

Instrument ID: LCMSMS

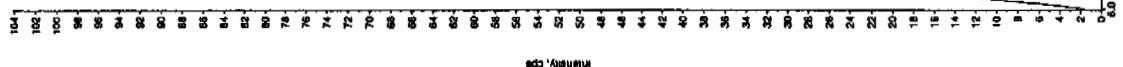
Column: Phenomenex Ultracarb 5u ODS(20)

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

Lar 3/2/10

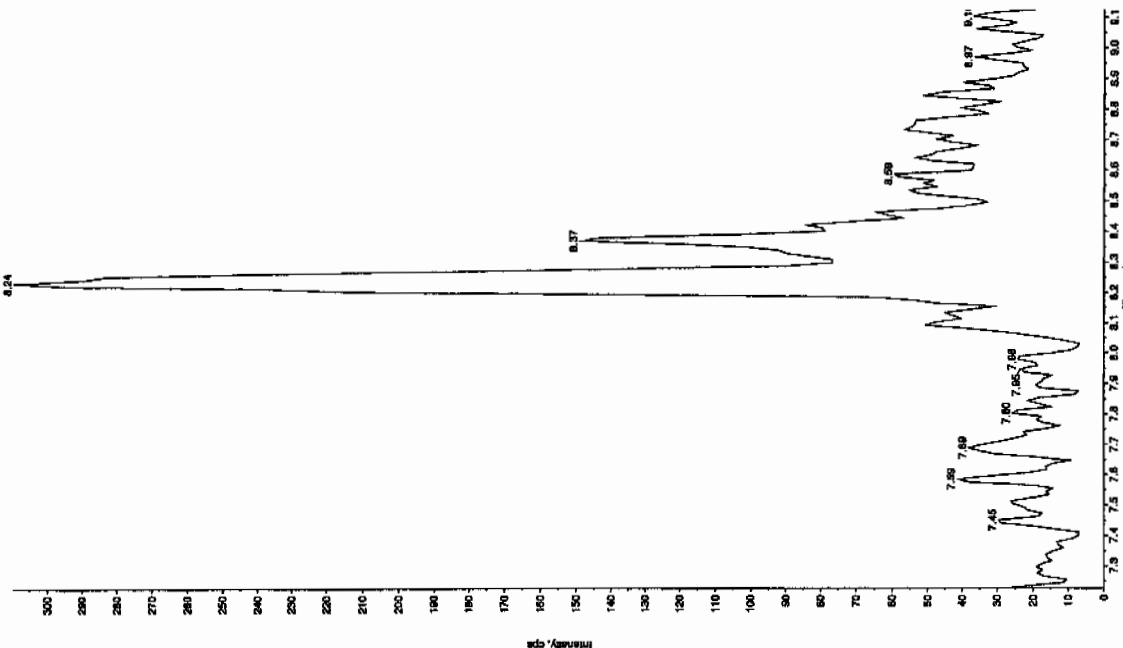
Sample Name: "GLX05" Sample ID: "JULIET" File: "EX5050038.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:17:09 AM
 Modified: No



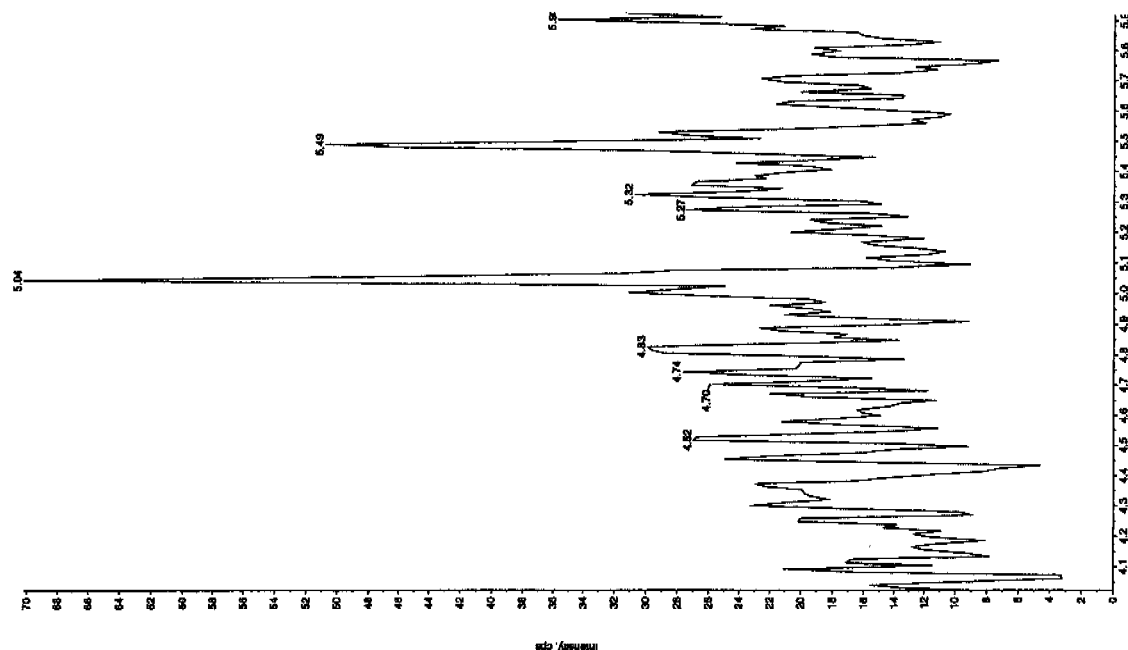
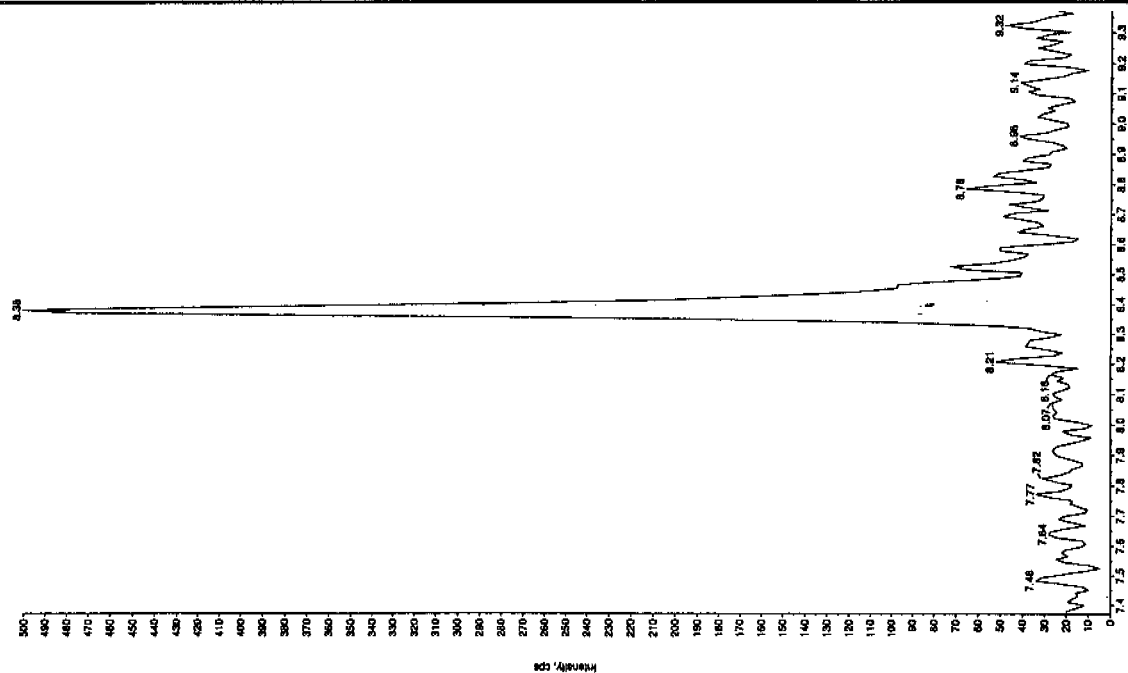
Sample Name: "GLX05" Sample ID: "JULIET" File: "EX5050038.wif"
 Peak Name: "S-Dichloromethane" Mass(es): "183.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

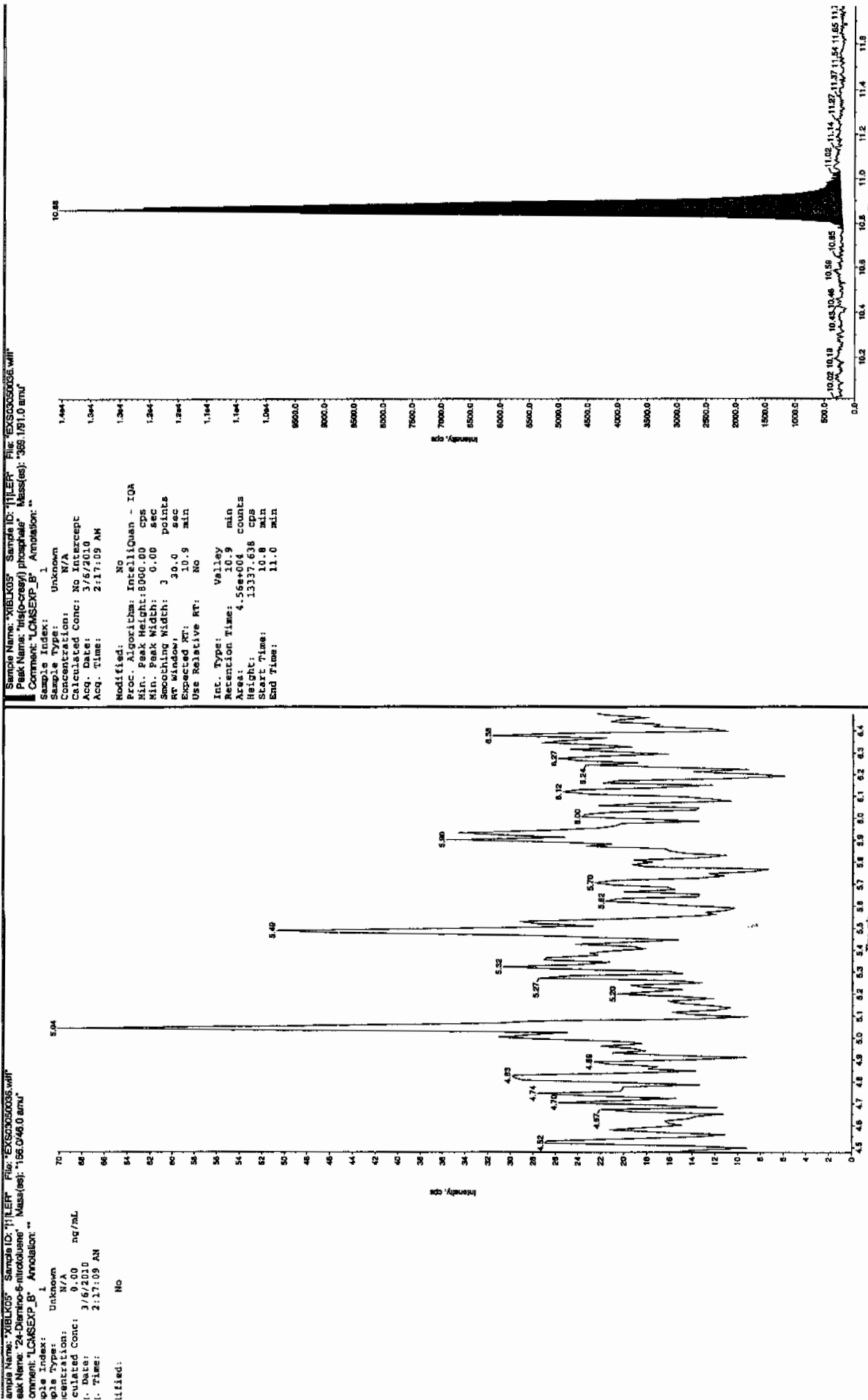
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:17:09 AM
 Modified: No



Lar 3/2/10

Sample Name: "XIBLK05" Sample ID: "TJLER" File: "EX503050036.wiff"
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
Comment: "CMSEXP.R" Annotation: "





DEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1982

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 06-MAR-10 05:41

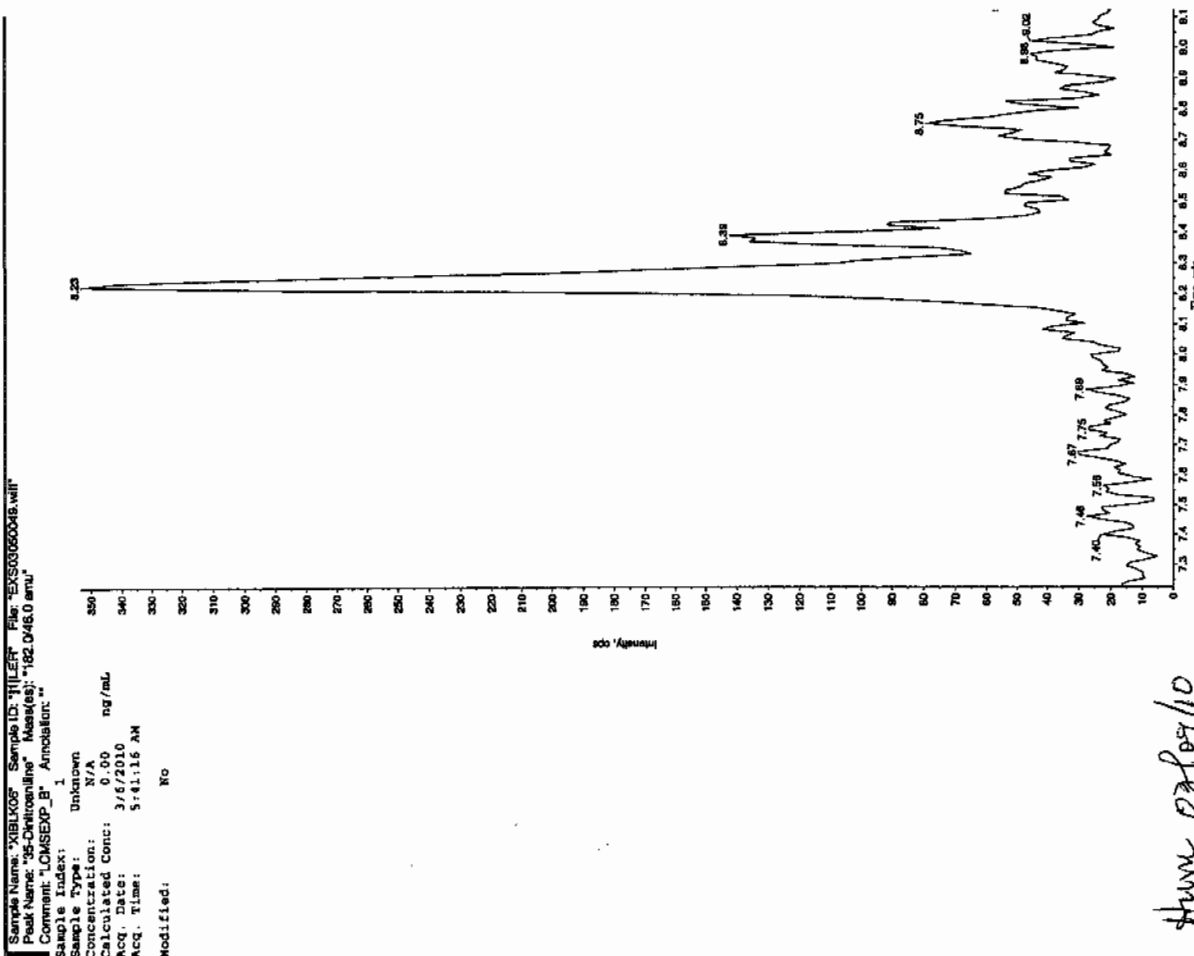
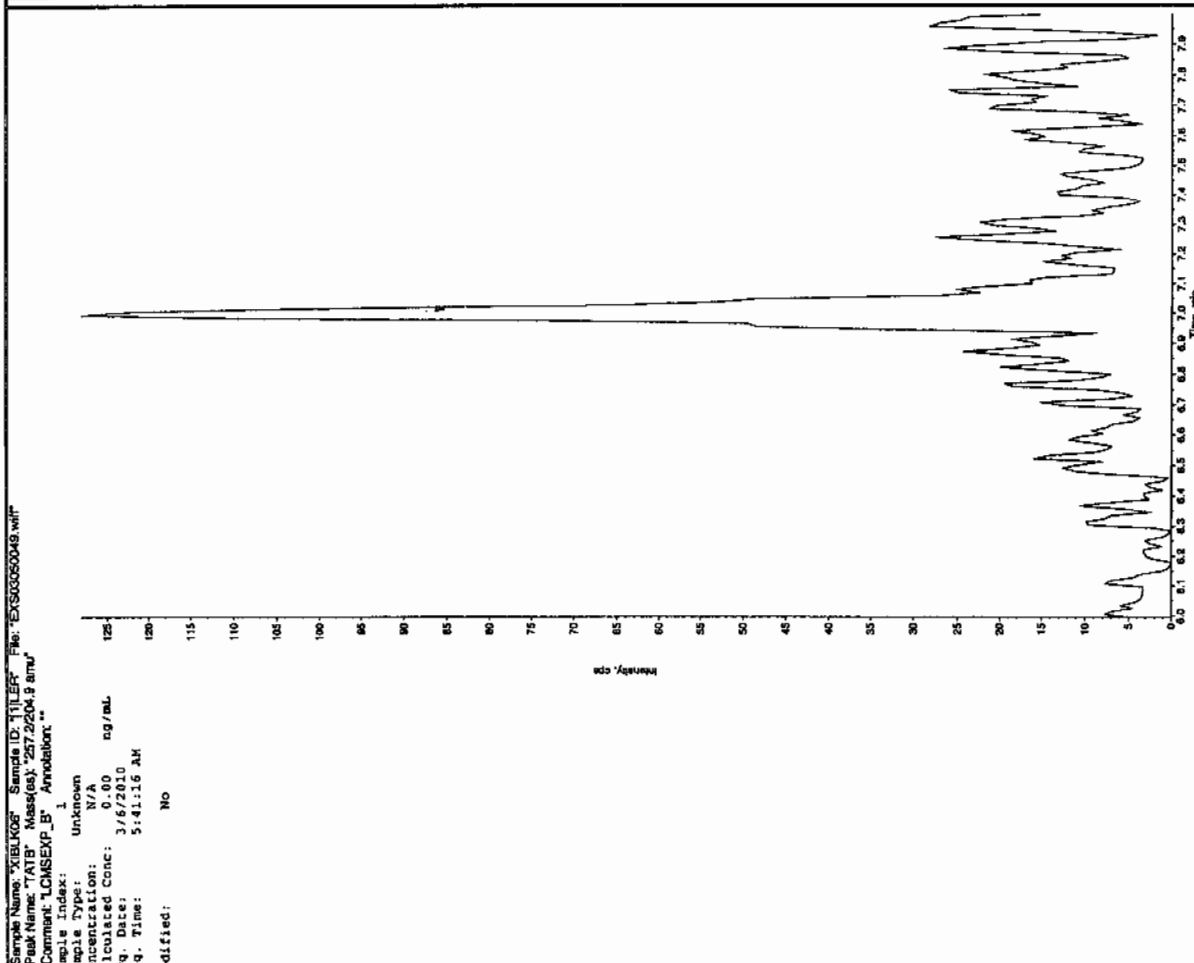
GEL Data File: EXS03050049.wiff

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

San 3/10/10

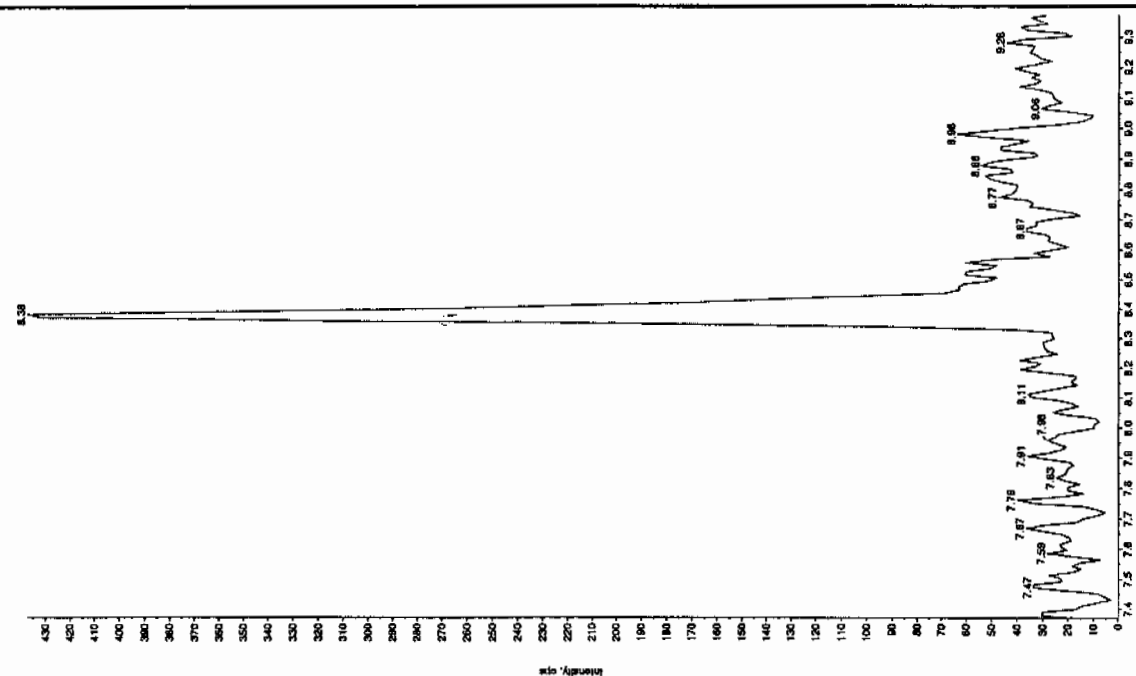


Time 02/09/10

IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

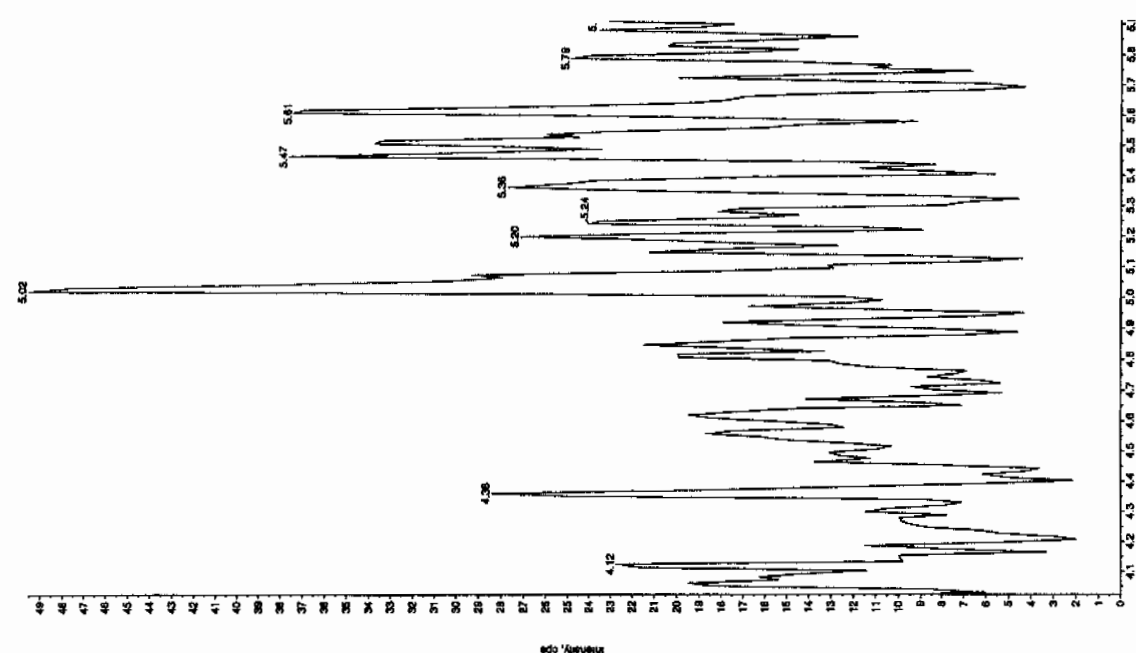
Sample Name: "XBL008" Sample ID: "111111" File: "EX0303050048.wif"
 Peak Name: "34-Diamino-4-nucleoside" Mass(es): "182.151.3 amu"
 Comment: "LCMS-EXP_3" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 AM
 Modified: No



Sample Name: "XBL008" Sample ID: "111111" File: "EX0303050048.wif"
 Peak Name: "34-Diamino-4-nucleoside" Mass(es): "182.151.3 amu"
 Comment: "LCMS-EXP_3" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 AM
 Modified: No



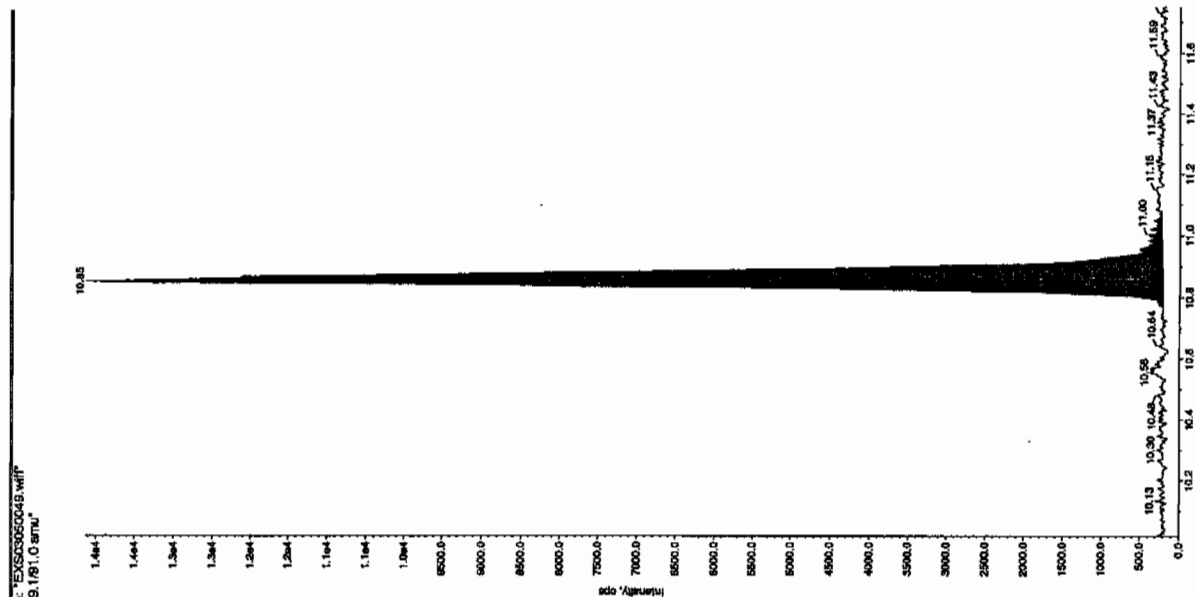
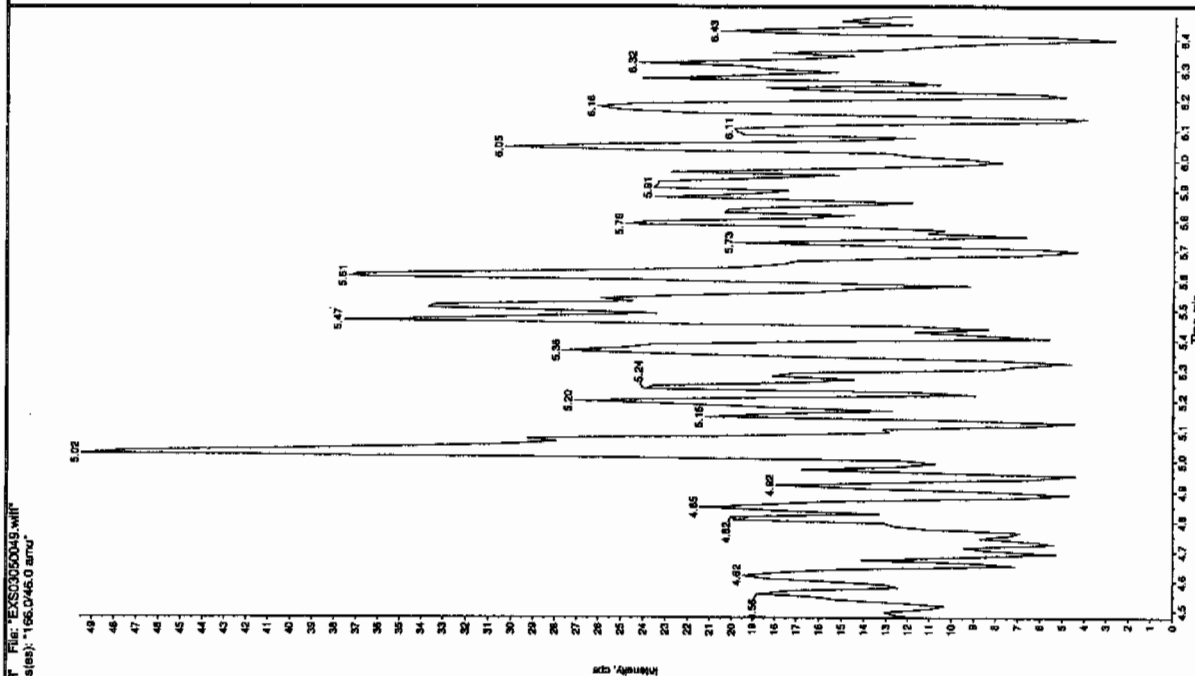
Sample Name: "XBL008" Sample ID: "111111" File: "EX0303050048.wif"
 Peak Name: "34-Diamino-4-nucleoside" Mass(es): "182.151.3 amu"
 Comment: "LCMS-EXP_3" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 AM
 Modified: No

Sample Name: "XIBLK06" Sample ID: "11LEP" File: "EXS03050049.wif"
 Peak Name: "bis(4-oxocyclohex-2-en-1-ylidene) malonate" Mass(es): "186.046.0 amu"
 Comment: "LCMS EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 5:41:16 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: 4.64e+004 counts
 Height: 13920.753 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H₂O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

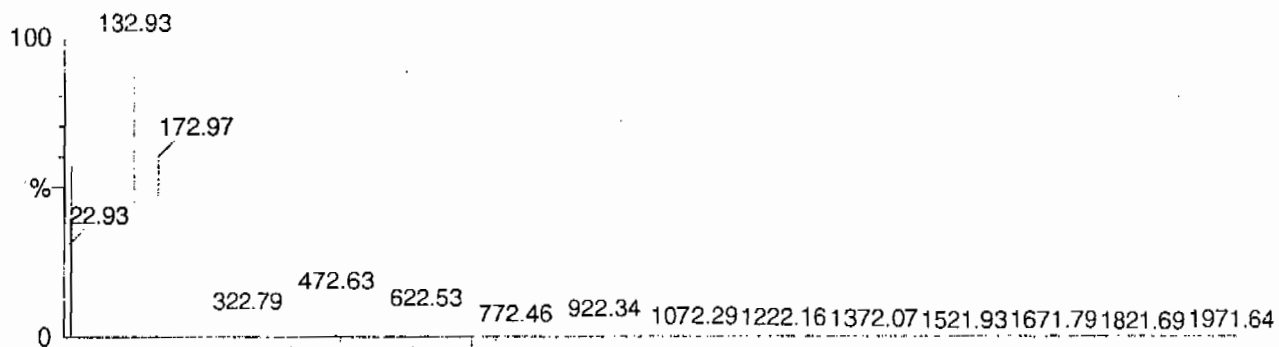
Calibration Report - MS1 Static

Page 1 of 1

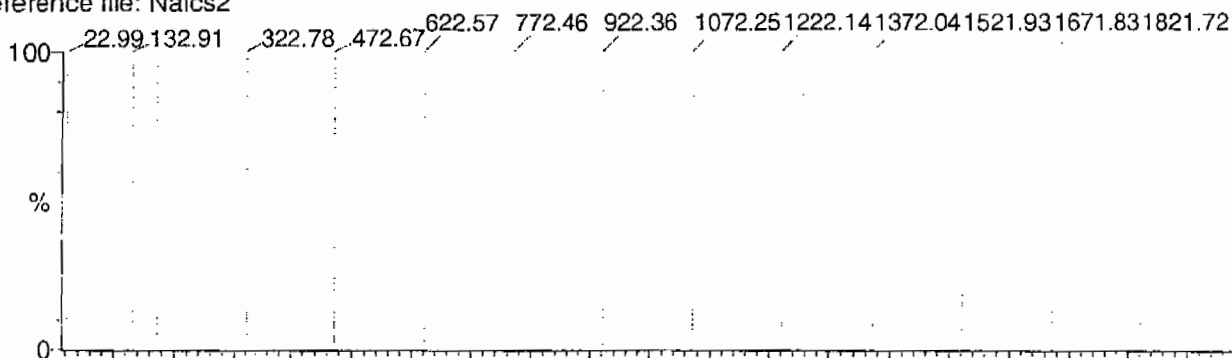
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

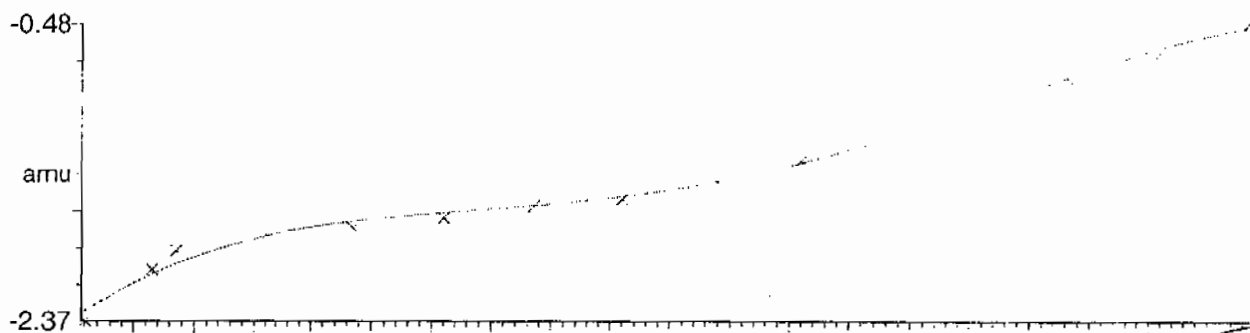
15 matches of 15 tested references



Reference file: Naics2

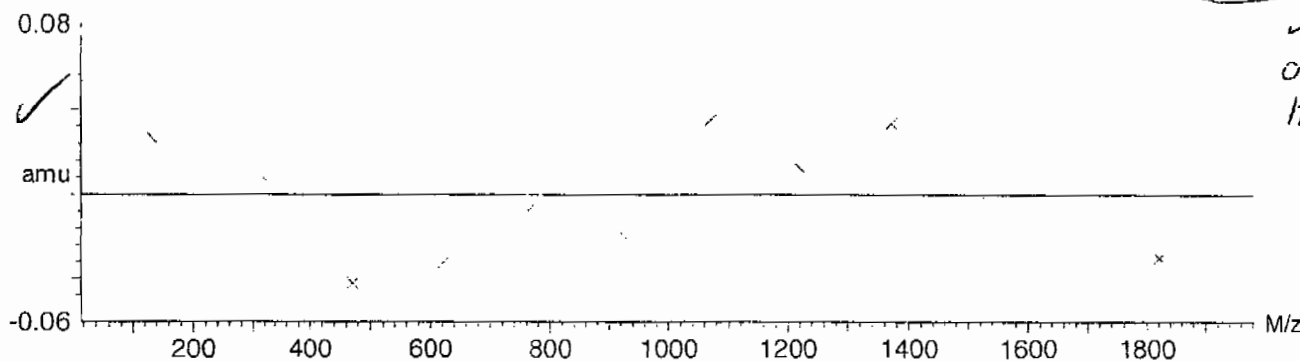


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



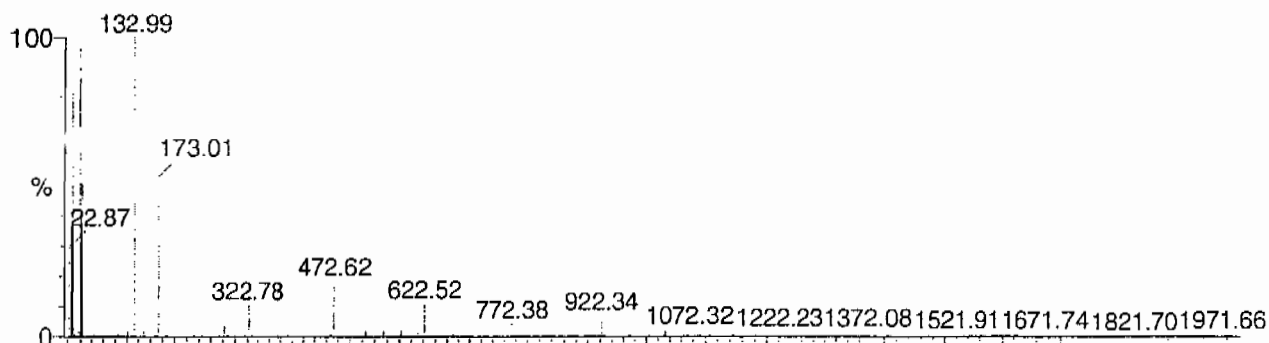
Calibration Report - MS1 Scanning

Page 1 of 1

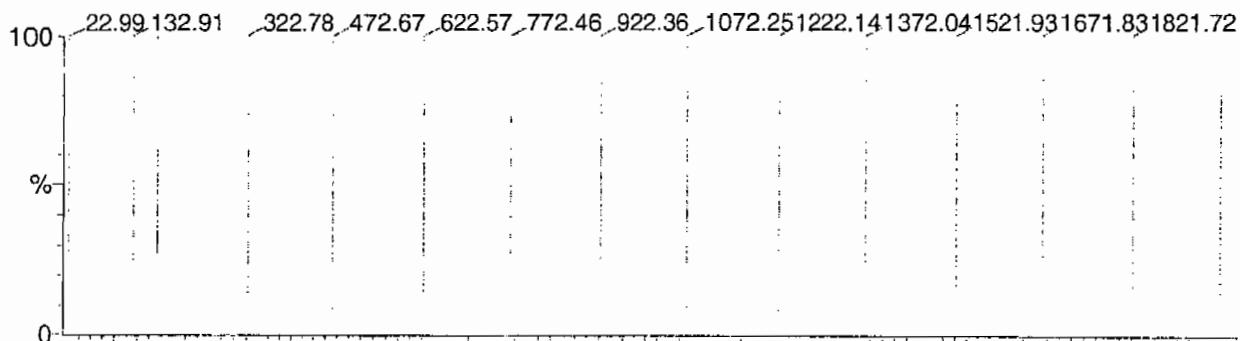
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

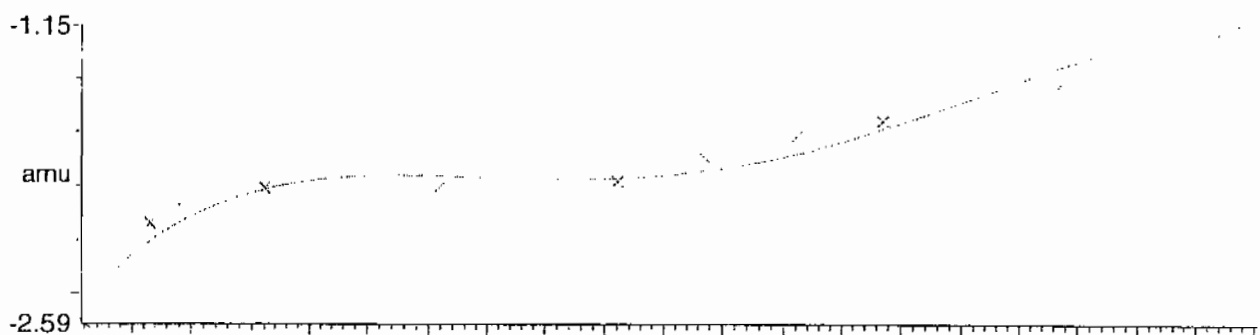
15 matches of 15 tested references



Reference file: Naics2

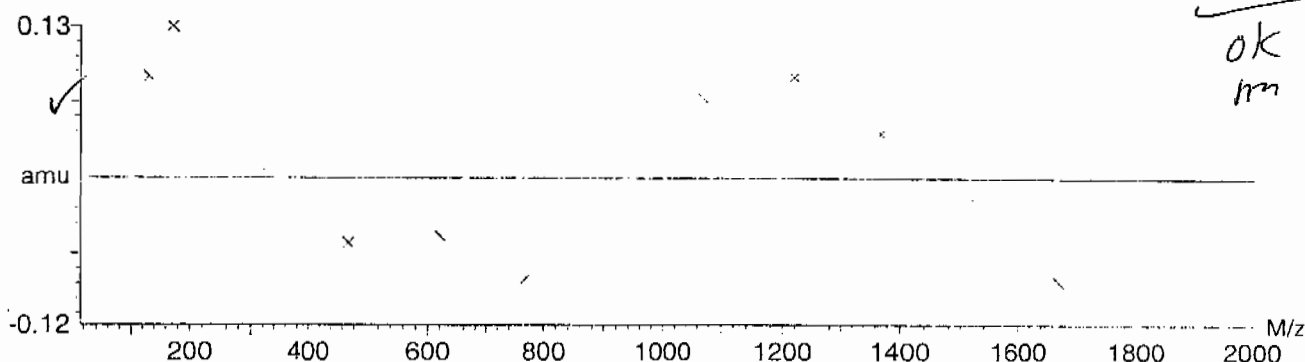


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715e-9 \pm 0.069858$



ok
m

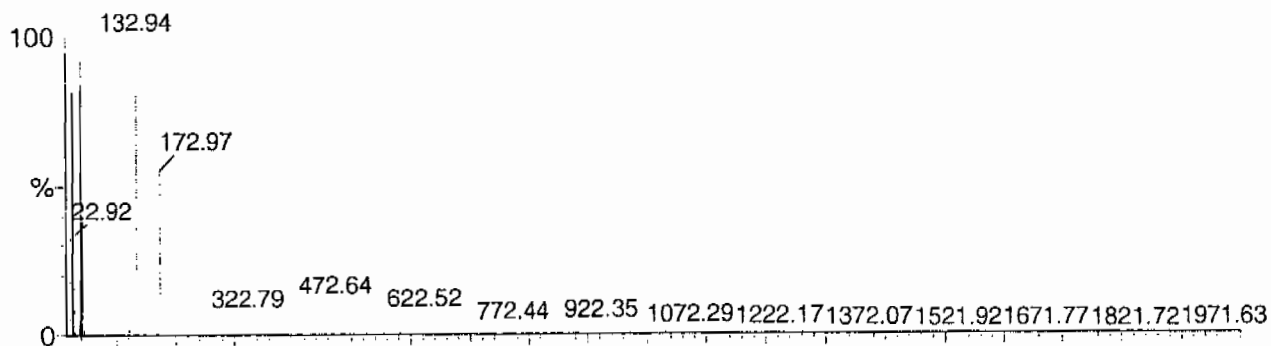
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

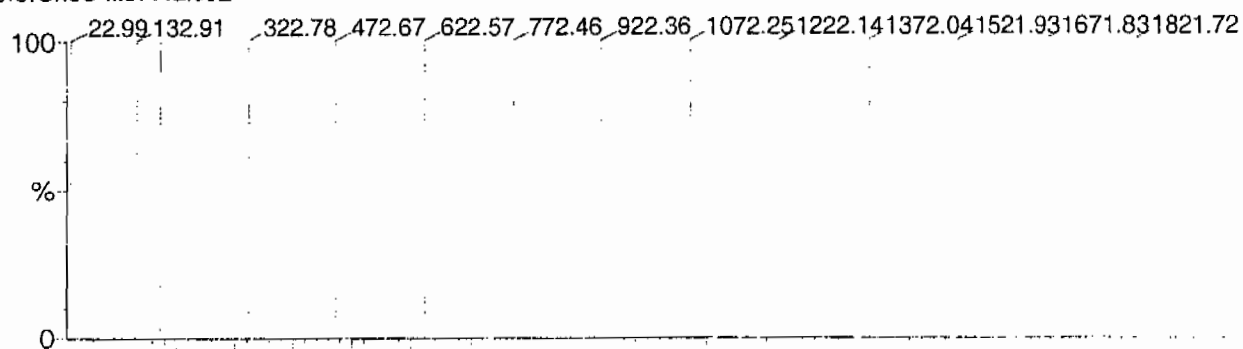
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

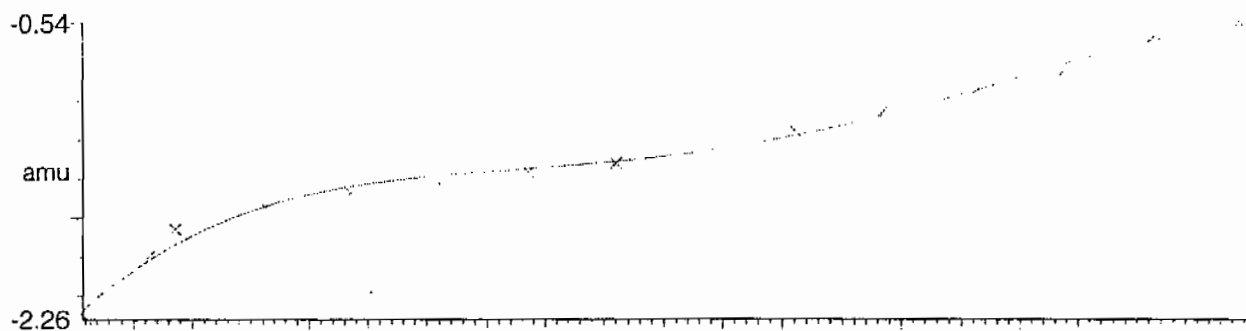
15 matches of 15 tested references



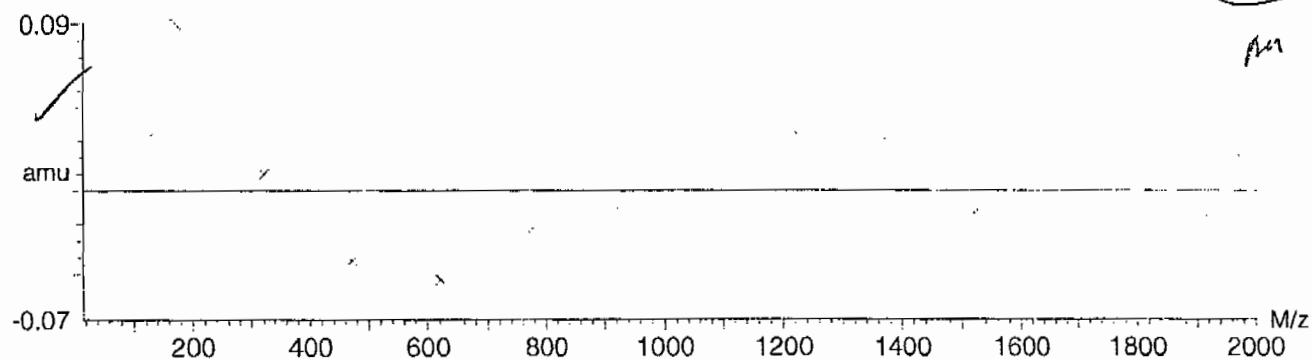
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals



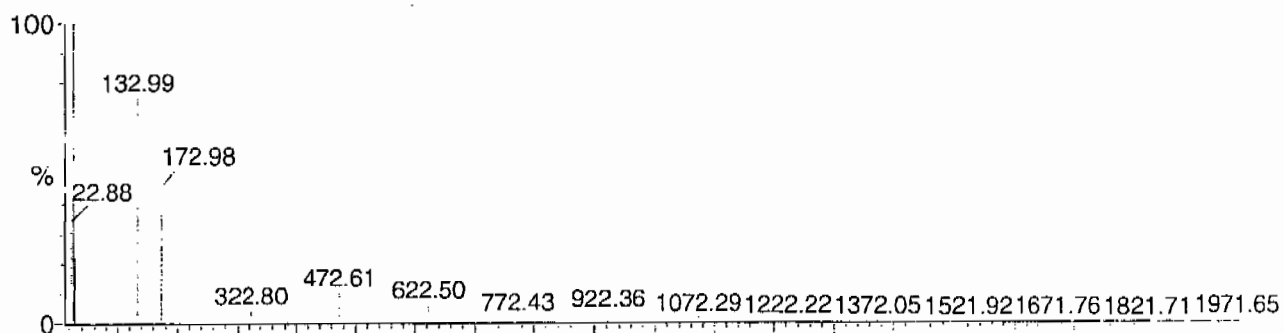
Calibration Report - MS2 Static

Page 1 of 1

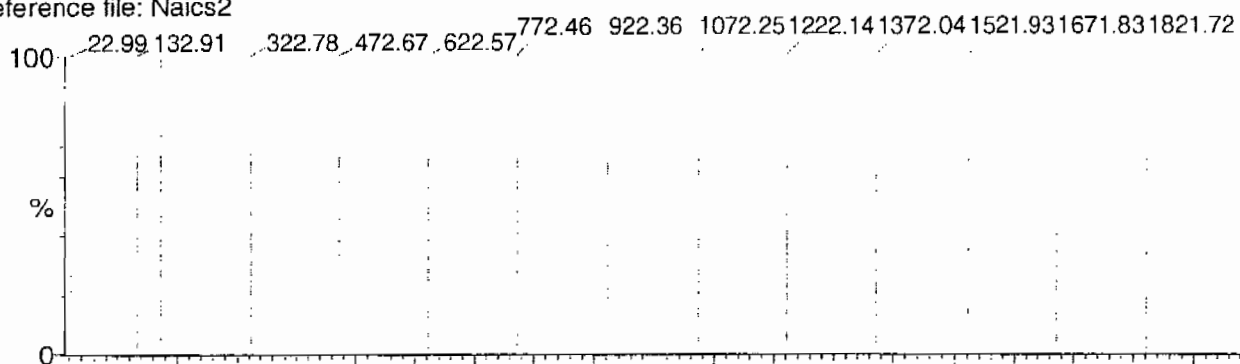
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

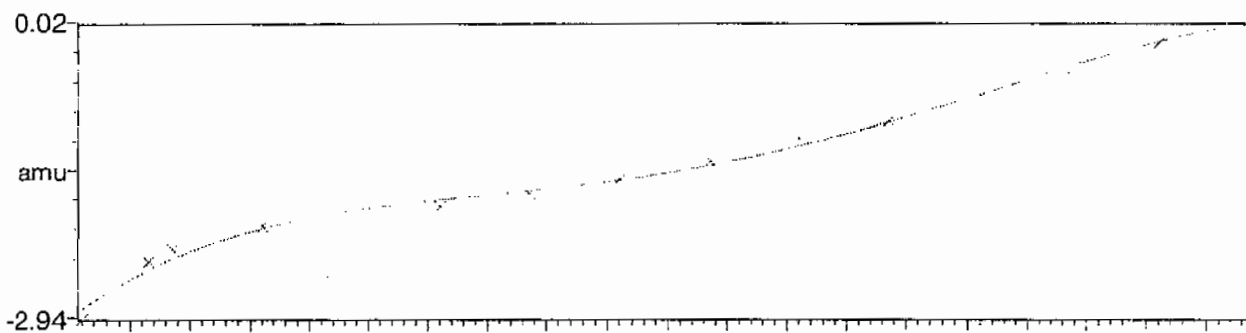
15 matches of 15 tested references



Reference file: Naics2

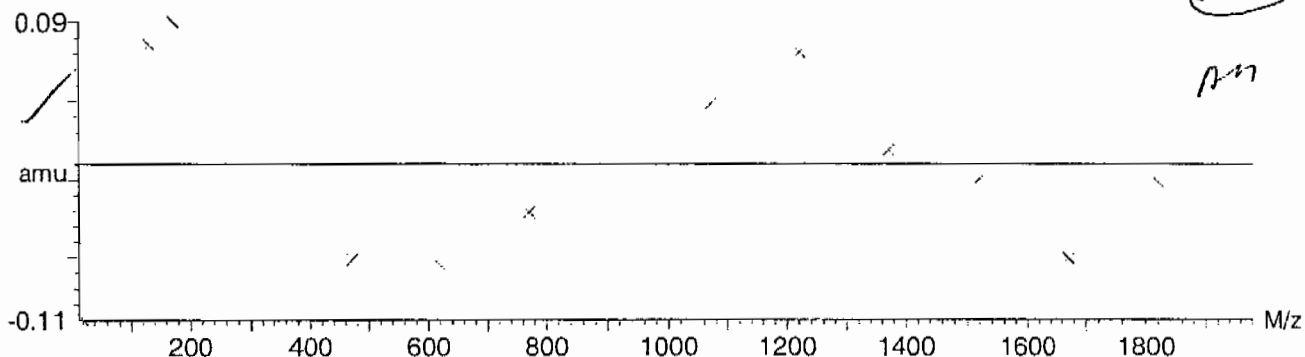


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



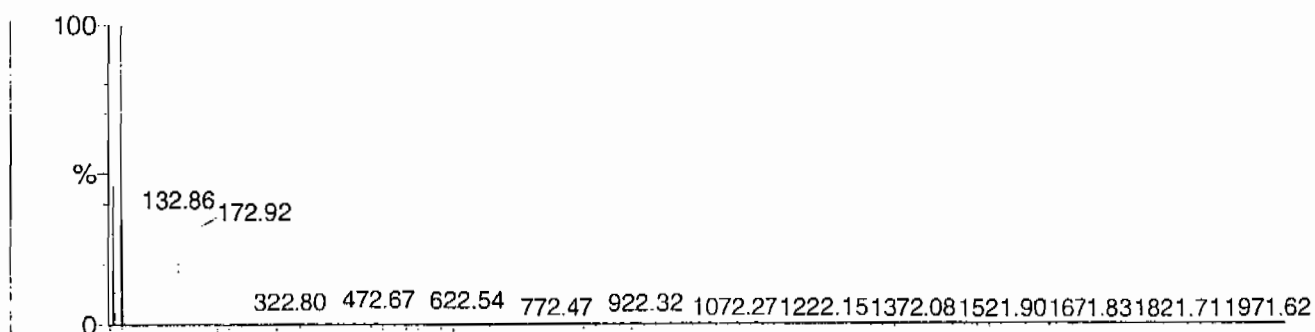
Calibration Report - MS2 Scanning

Page 1 of 1

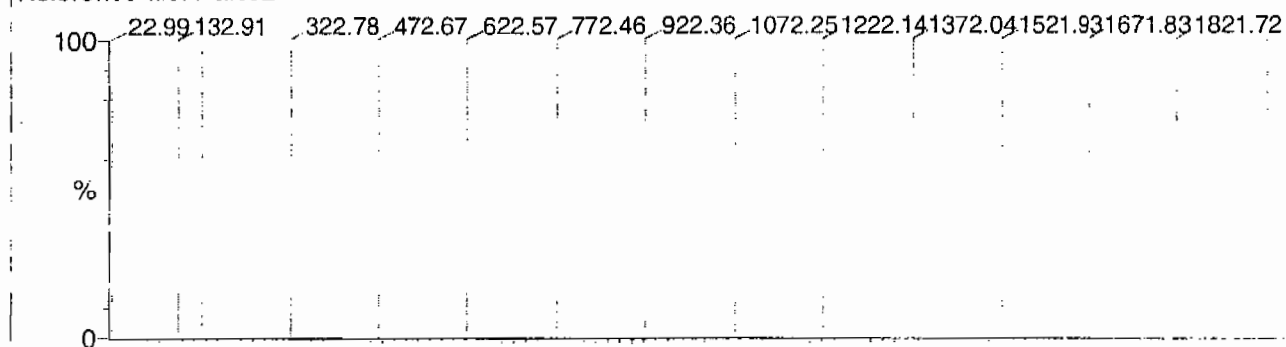
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

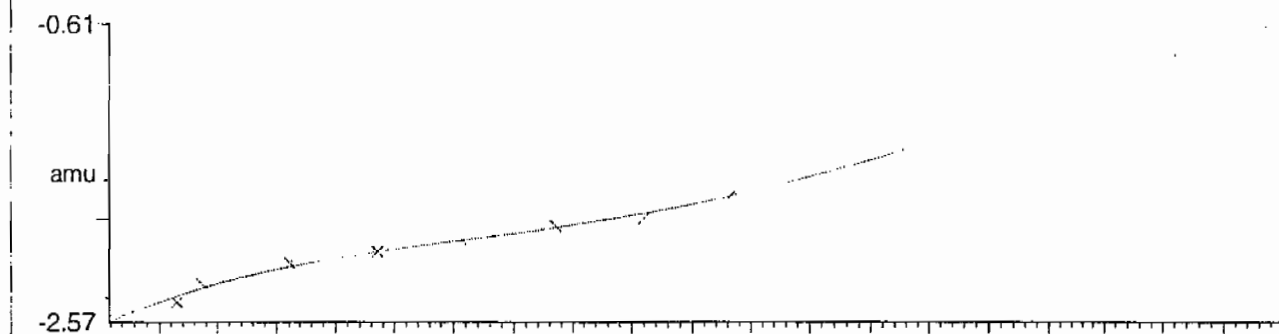
14 matches of 15 tested references



Reference file: Naics2

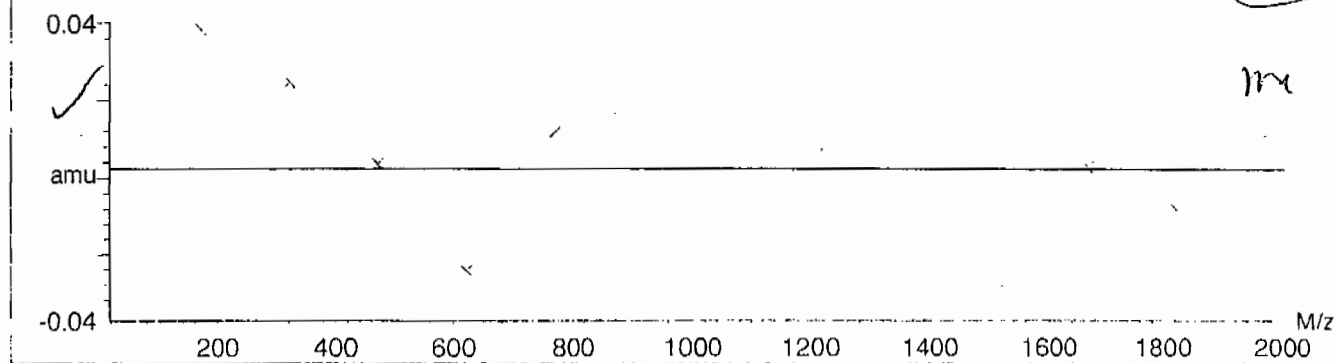


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



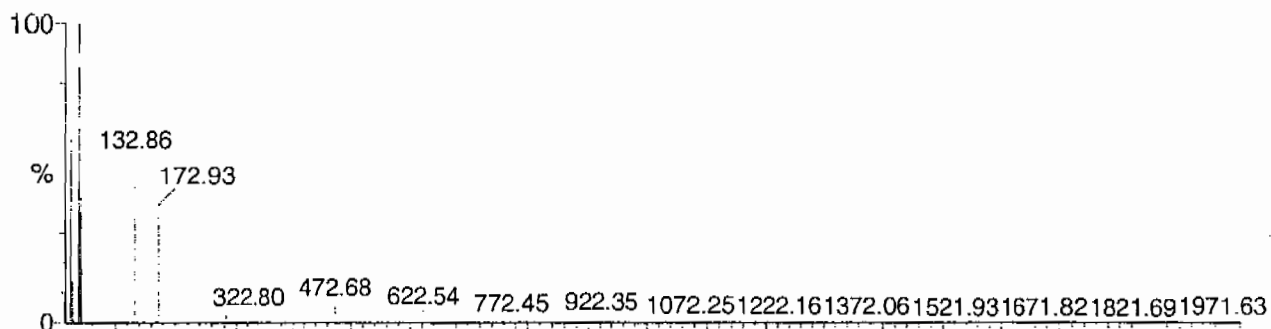
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

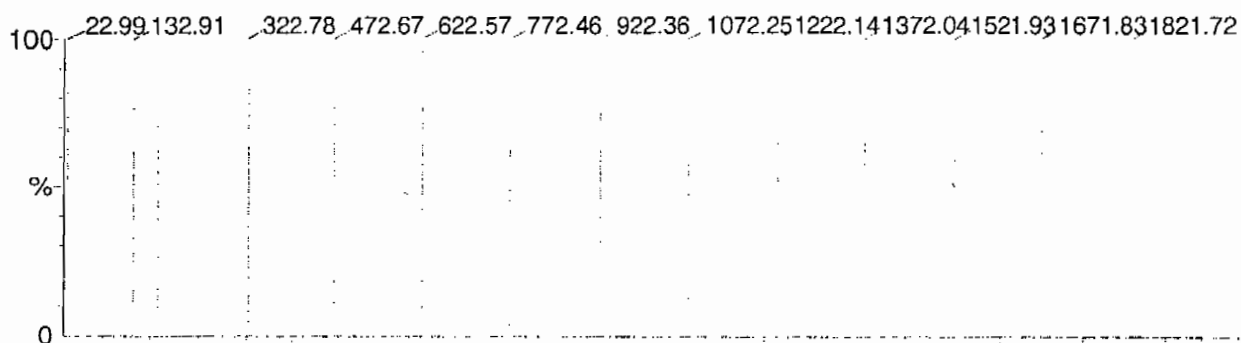
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

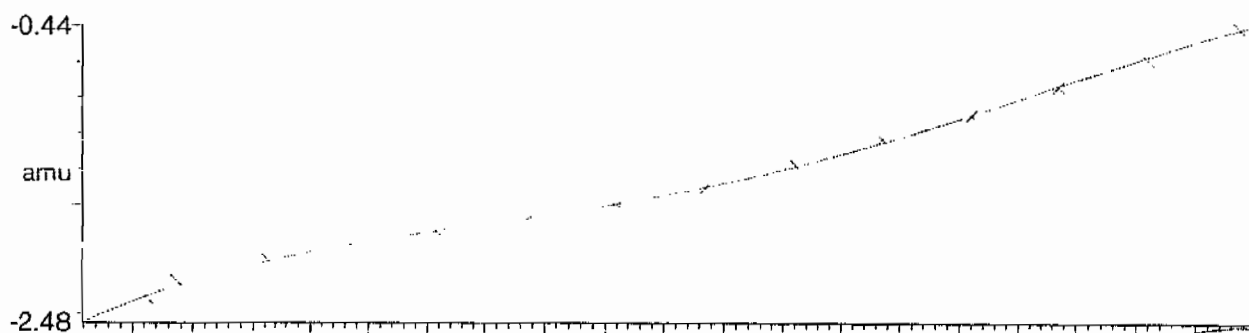
14 matches of 15 tested references



Reference file: Naics2

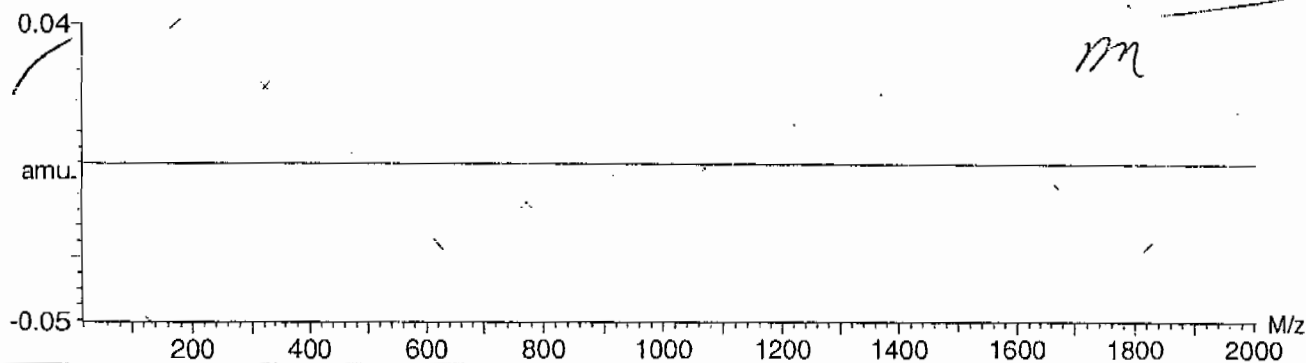


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

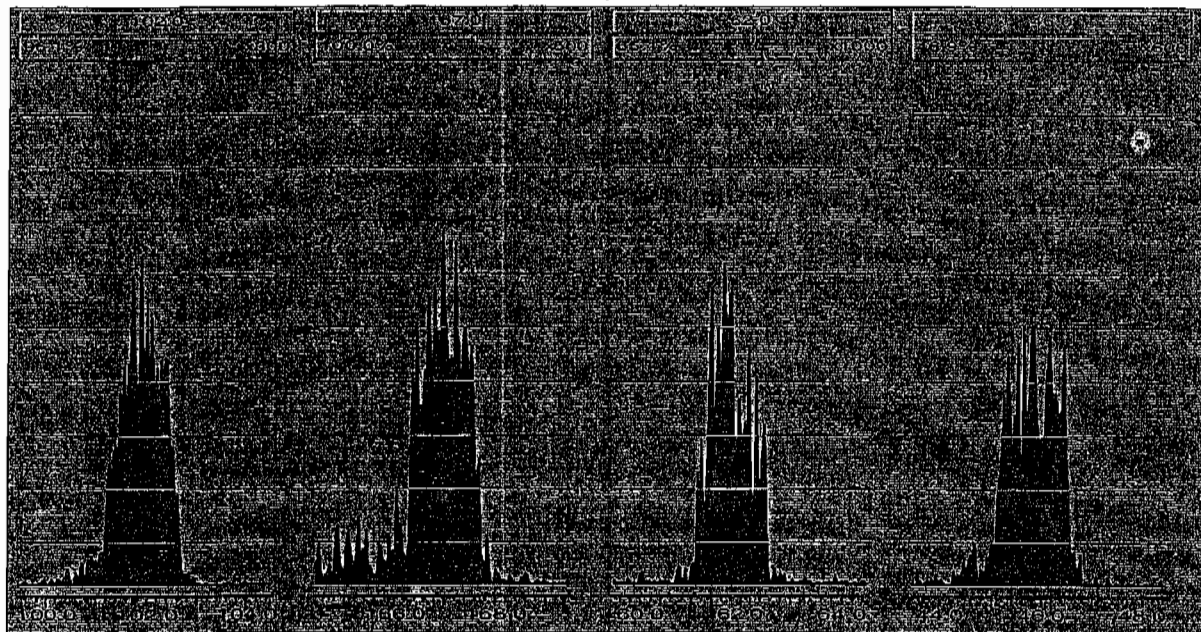


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Sun Mar 14 12:47:33 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

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) #
			3364.442	12.175	19055.667	17.644
Upper Limit			4373.7746	12.675	24772.3671	18.144
Lower Limit			2355.1094	11.675	13338.9669	17.144
MB for batch 957199	14-mar-10 20:52	EXP0314013a	3086.87	12.169	19162.3	17.653
LCS for batch 957199	14-mar-10 21:22	EXP0314014a	3876.29	12.171	20024	17.638
RE15-10-8317	14-mar-10 23:20	EXP0314018a	3320.36	12.168	20160.1	17.653
RE15-10-8319	14-mar-10 23:49	EXP0314019a	3286	12.171	20333	17.642
RE15-10-8316	15-mar-10 00:19	EXP0314020a	3798	12.177	23712.5	17.64
RE15-10-8326	15-mar-10 00:48	EXP0314021a	3615.15	12.171	21305.6	17.642
RE15-10-8318	15-mar-10 01:17	EXP0314022a	3349.19	12.171	20689.4	17.642

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314018a

Date Analyzed: 14-MAR-10 23:20

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\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314018a

Date: 14-Mar-2010

Time: 23:20:06

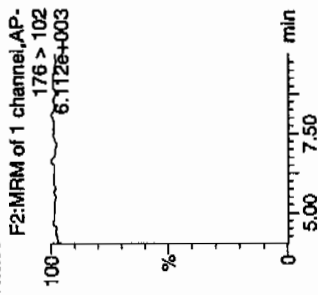
ID: 247791002

Vial: 2:1,F

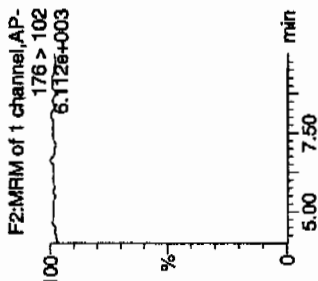
1447
3/15/10

LAUL 957200 | 21 | 2004

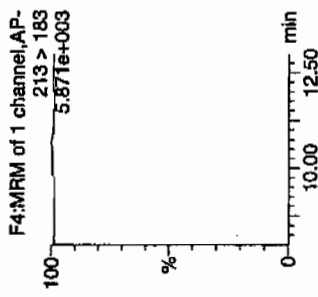
HMX



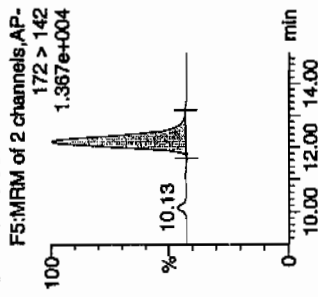
RDX



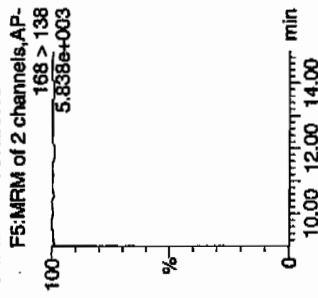
135-Trinitrobenzene



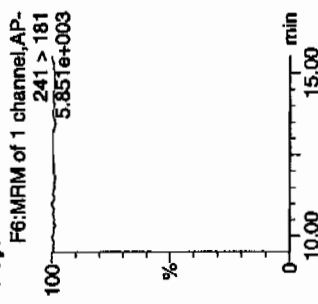
13-Dinitrobenzene-d4



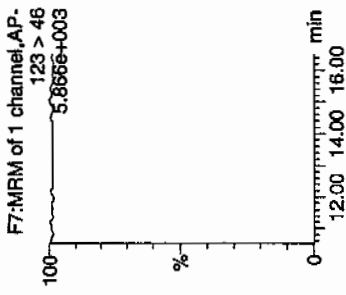
13-Dinitrobenzene



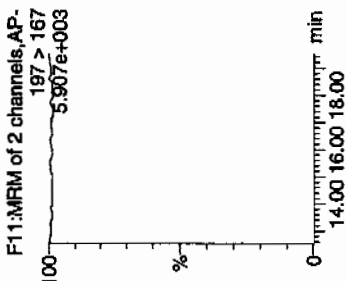
Tetryl



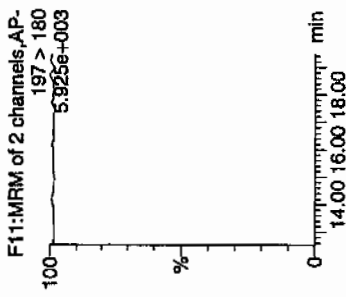
Vitrobenzene



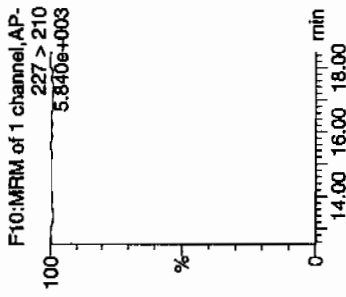
4-Amino-26-dinitrotoluene



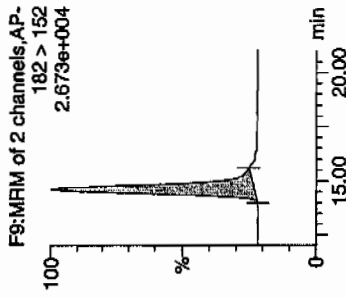
2-Amino-46-dinitrotoluene



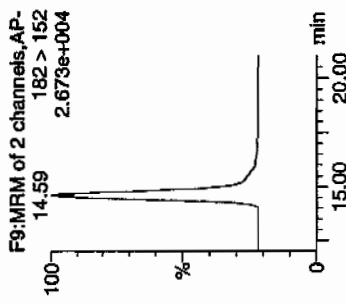
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



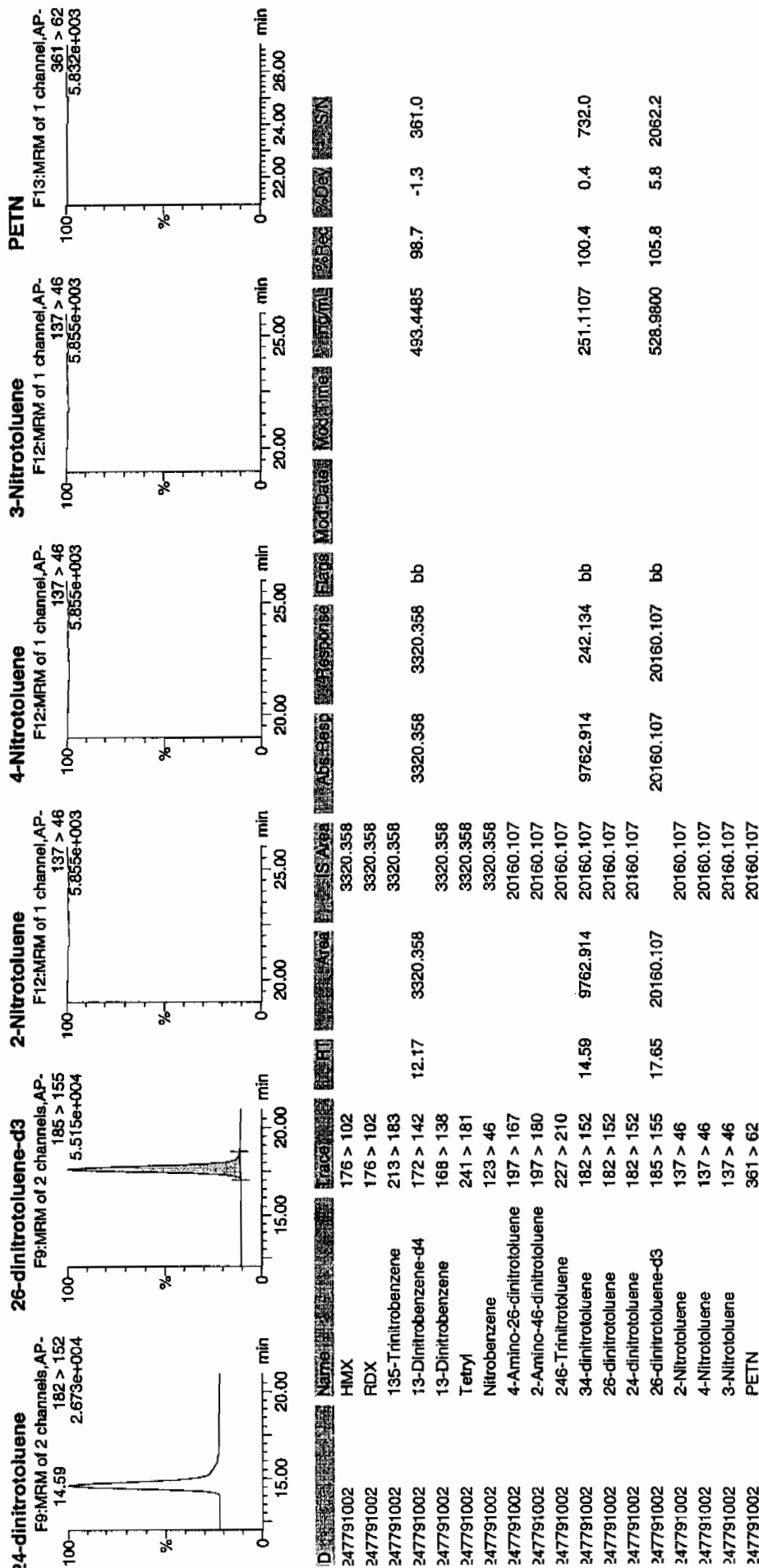
LAUL 957200 | 21 | 2004

Quantity Sample Report

3EL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 36 of 77

Dataset: C:\MASSLYNX\New_Exp\PRO1031410expA.qld, Time: Mon Mar 15 10:15:48 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8317

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791002

Sample Amount 2

Moisture: 6.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050043.wiff

Date Analyzed: 06-MAR-10 04:07

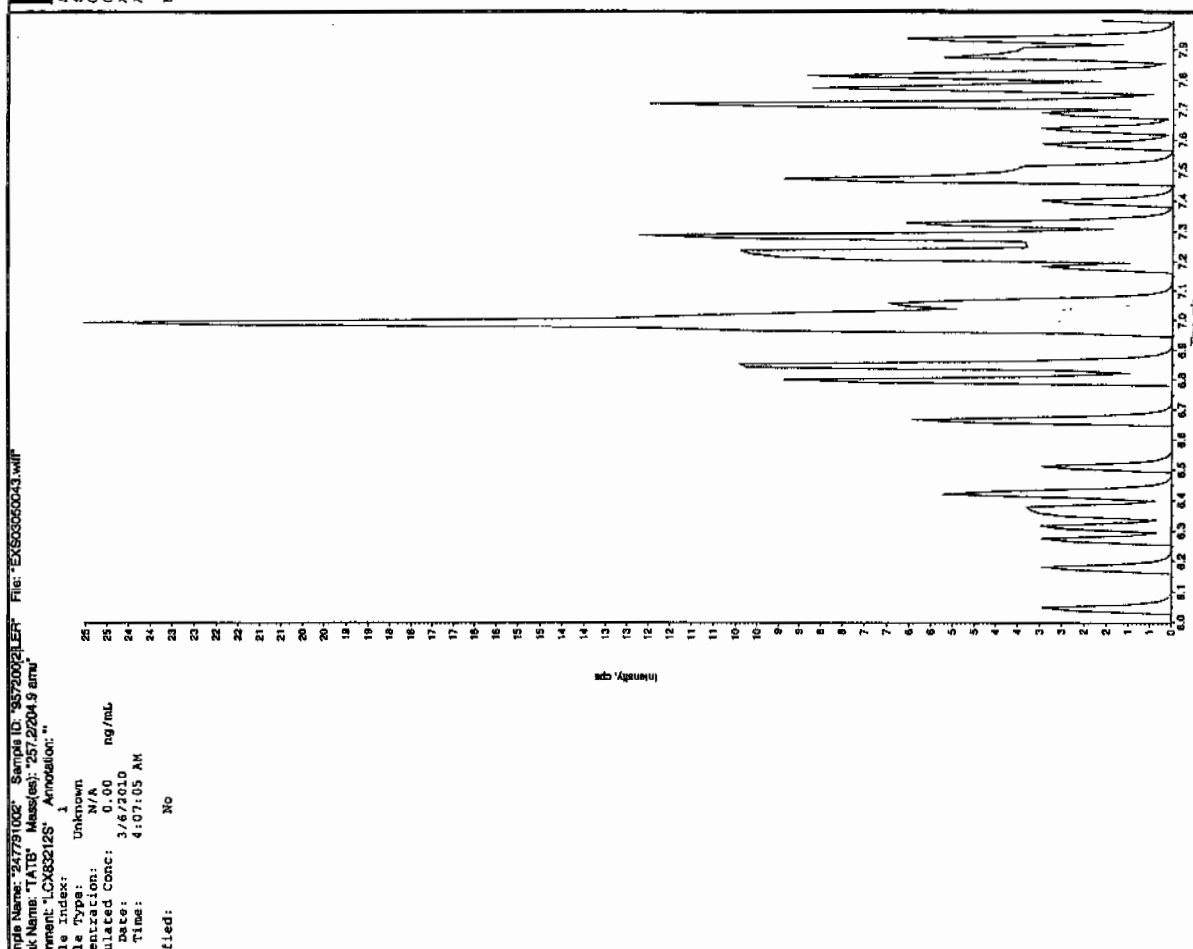
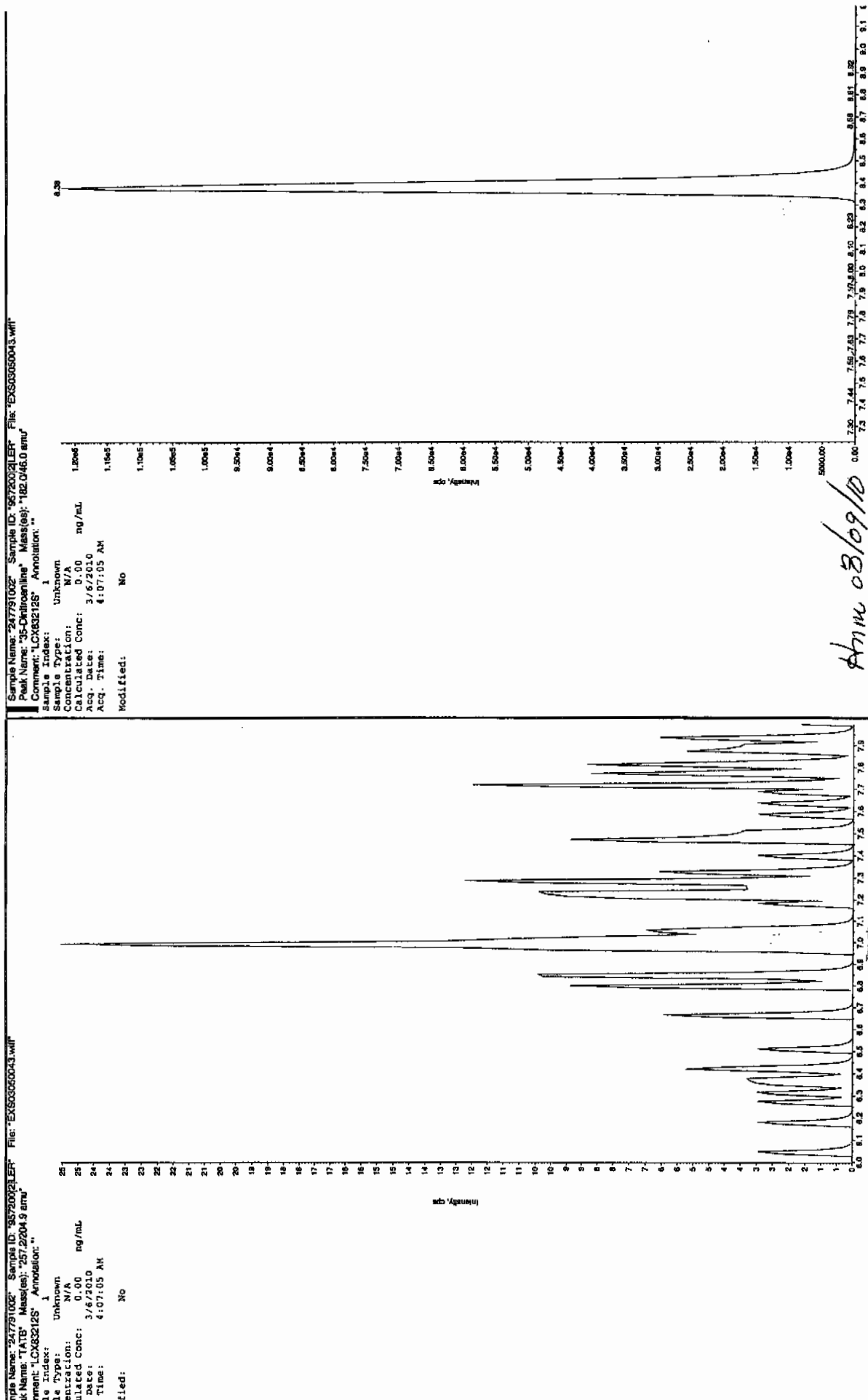
Units: ug/kg

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

*Concentration =

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

Jan 30/10



IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

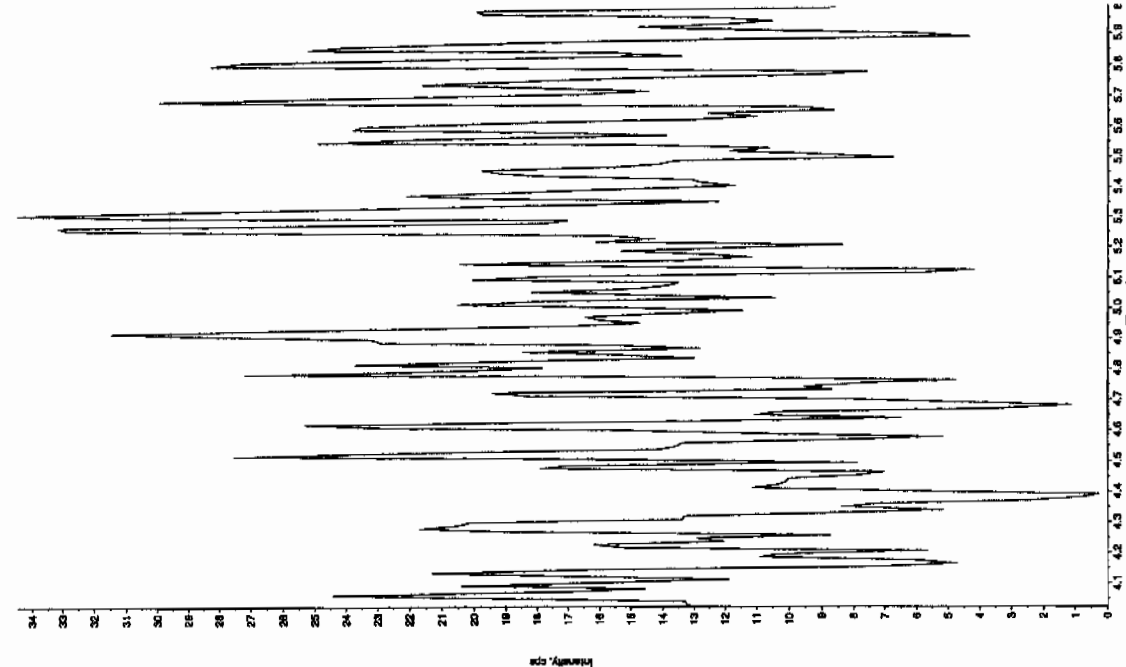
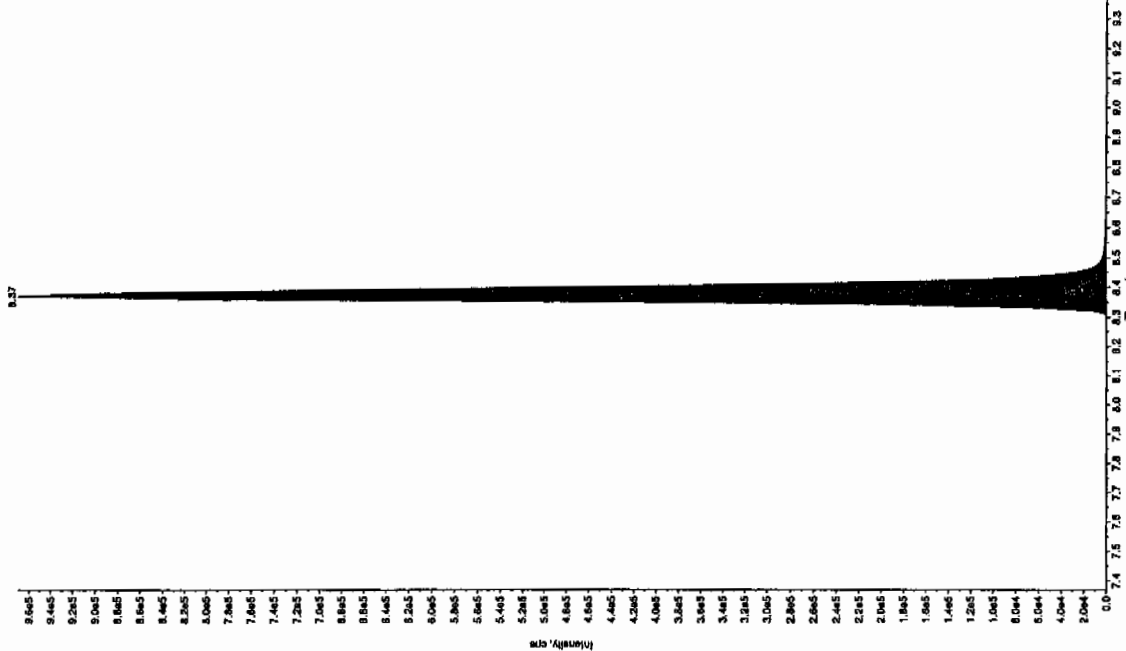
Sample Name: "247791002" Sample ID: "95720021ER" File: "EX503050043.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3.6/2010
 Acq. Date: 3/6/2010
 Acq. Time: 4:07:05 AM
 Modified: No

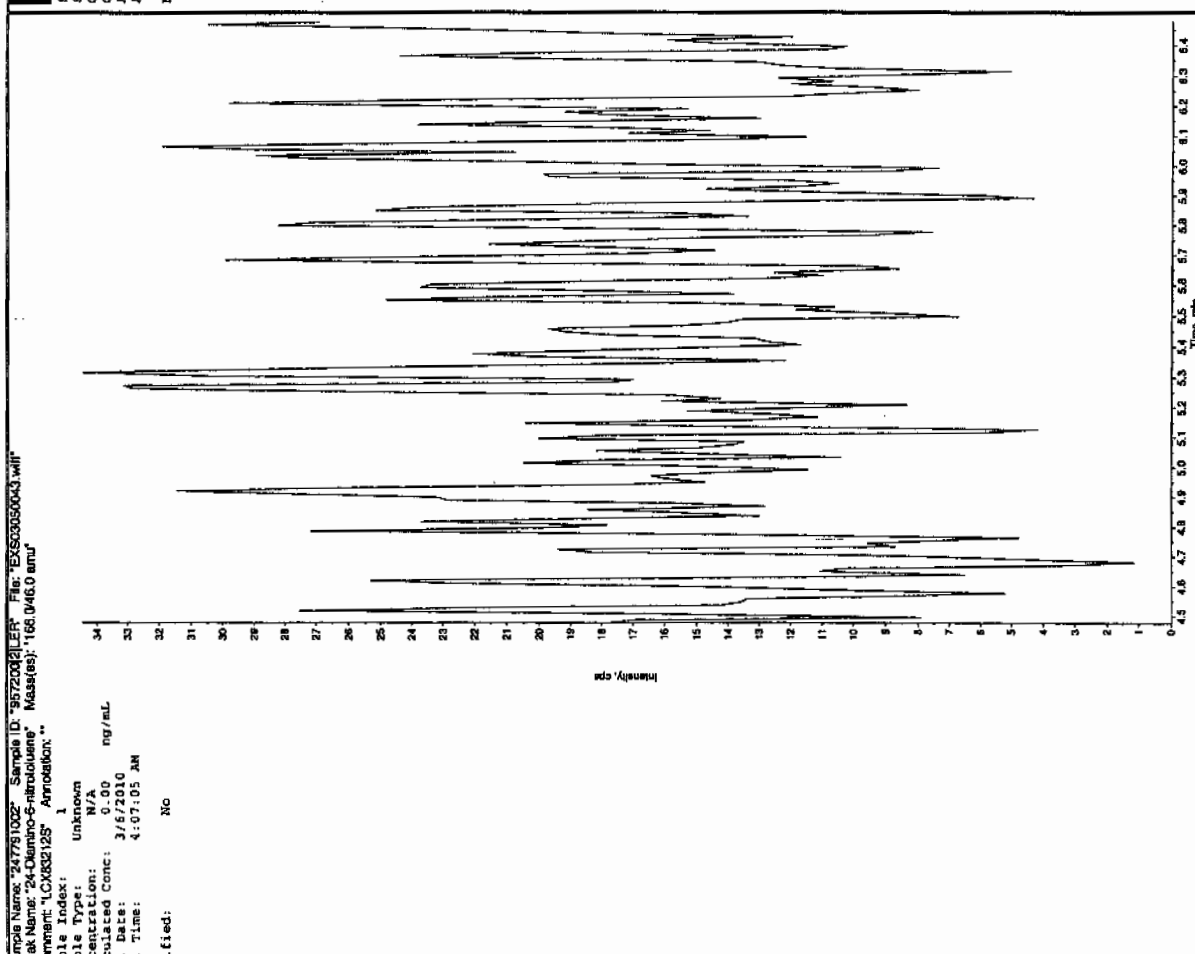
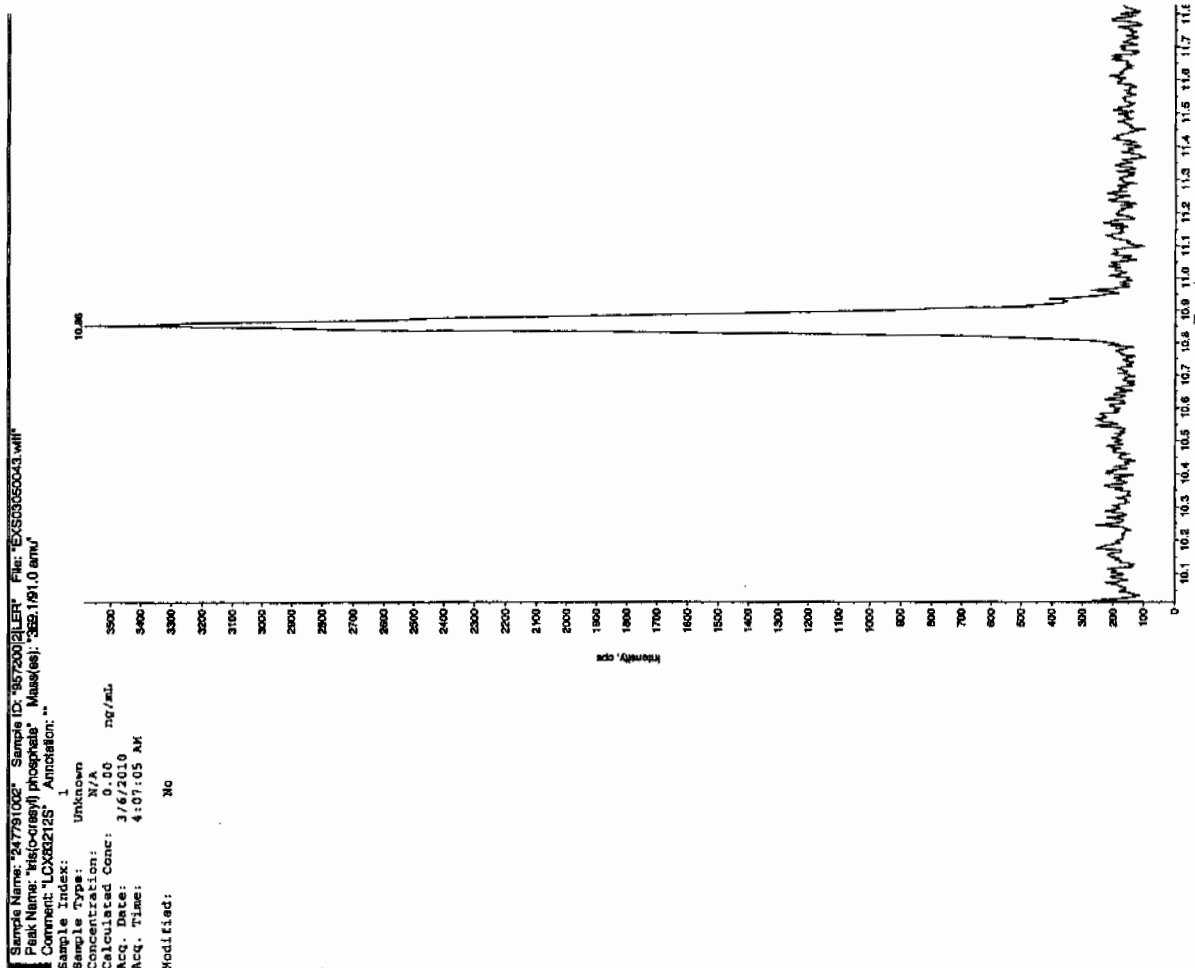
File Index: 1
 File Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3.6/2010
 Acq. Date: 3/6/2010
 Acq. Time: 4:07:05 AM
 Modified: No

Algorithm: IntelliQuan - IQA
 Peak Height: 1460.00 cps
 Peak Width: 0.00 sec
 Window: 30.0 points
 Window: 30.0 sec
 Retention Time: 8.37 min
 Relative RT: No

Type: Valley
 Retention Time: 8.37 min
 Counts: 3.25e+006 counts
 Height: 965751.446 cps
 Retention Time: 8.28 min
 Retention Time: 8.76 min



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314019a

Date Analyzed: 14-MAR-10 23:49

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0314019a

Date: 14-Mar-2010

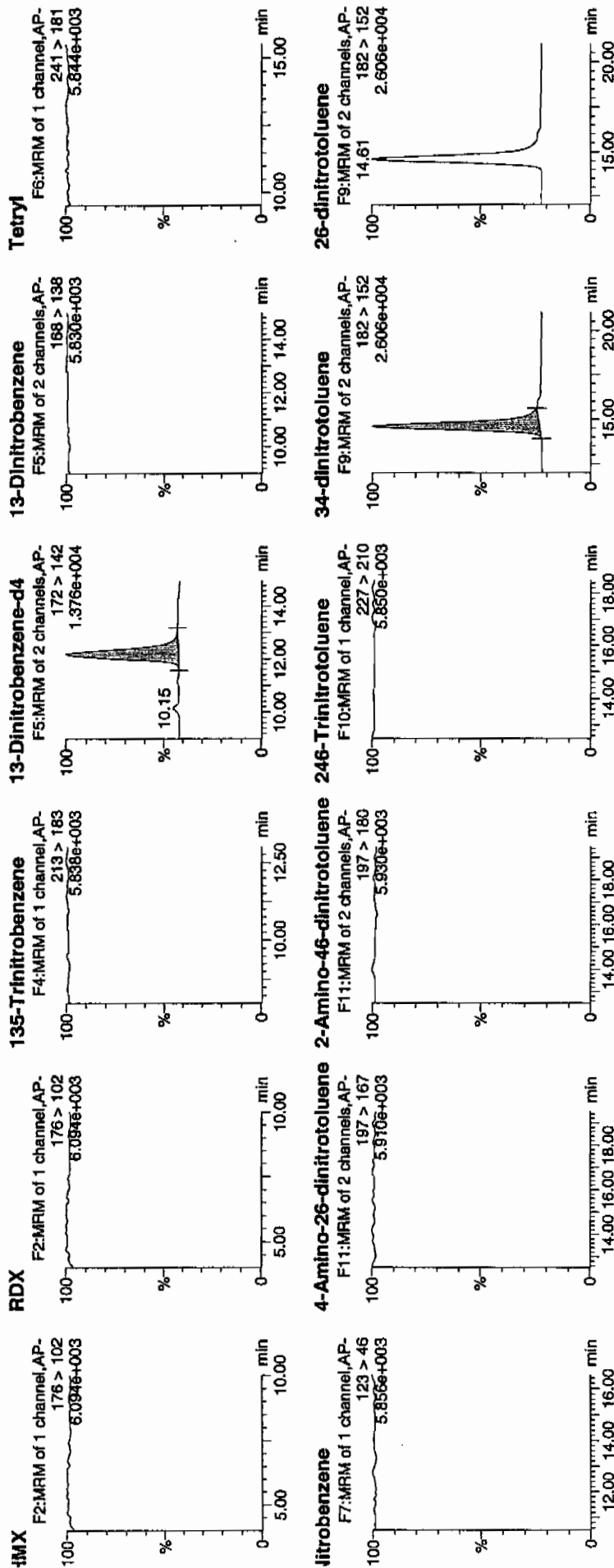
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D: 247791003

/lal: 2:2,A

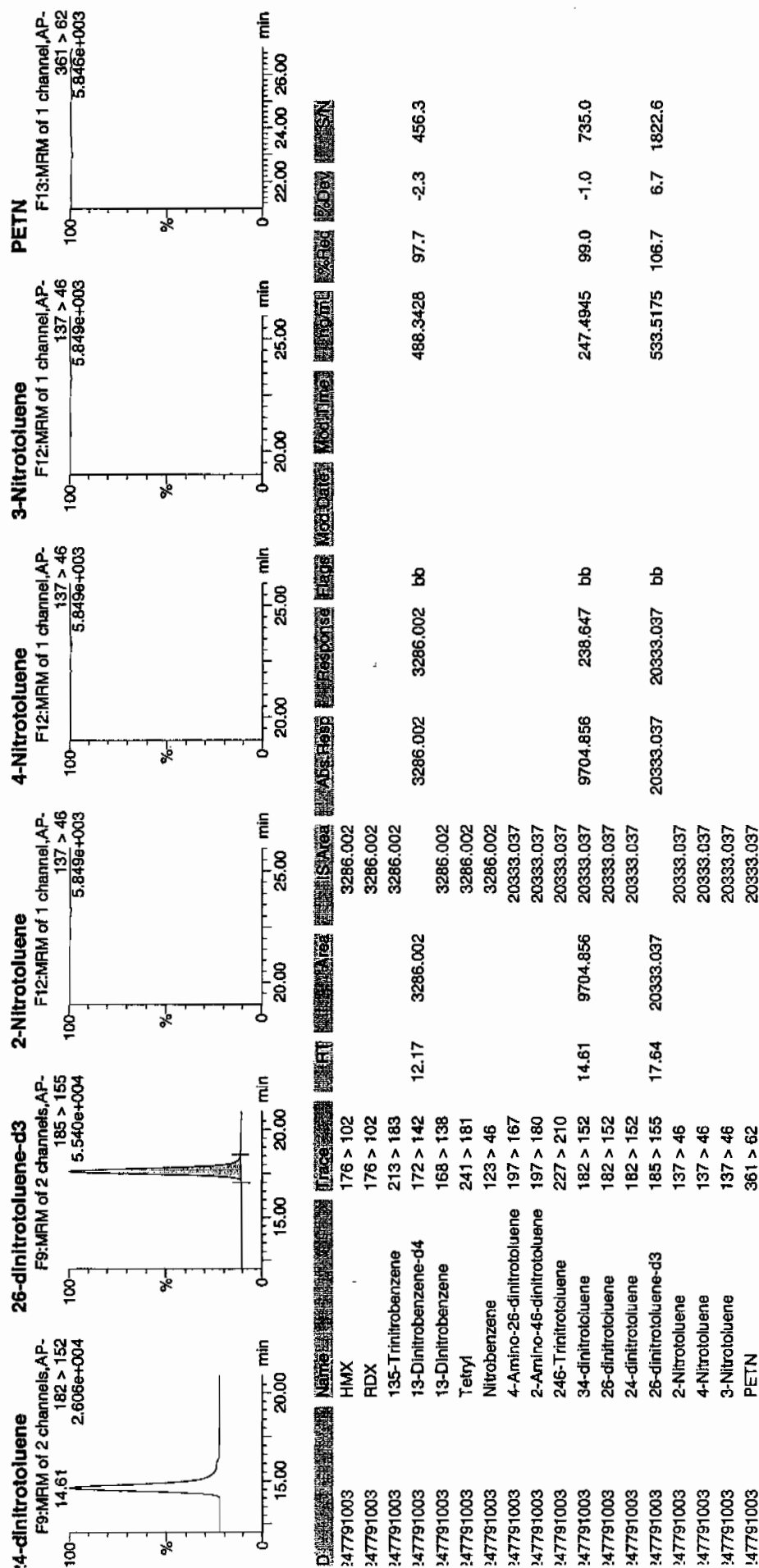
100%
3/15/10

WAV 957200 | 21



Ames 6/3/10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8319

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791003

Sample Amount 2

Moisture: 3.3

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050044.wiff

Date Analyzed: 06-MAR-10 04:22

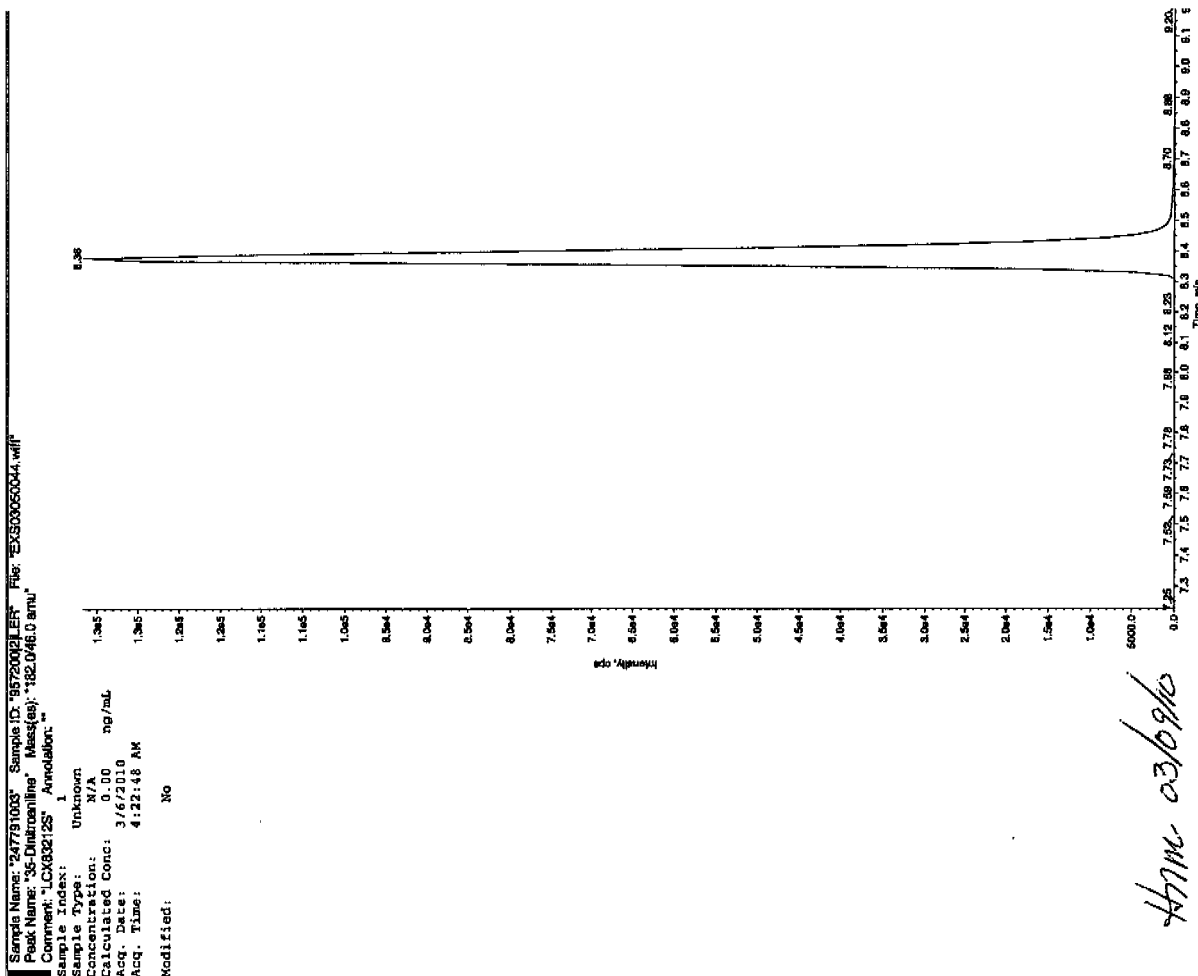
Units: ug/kg

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

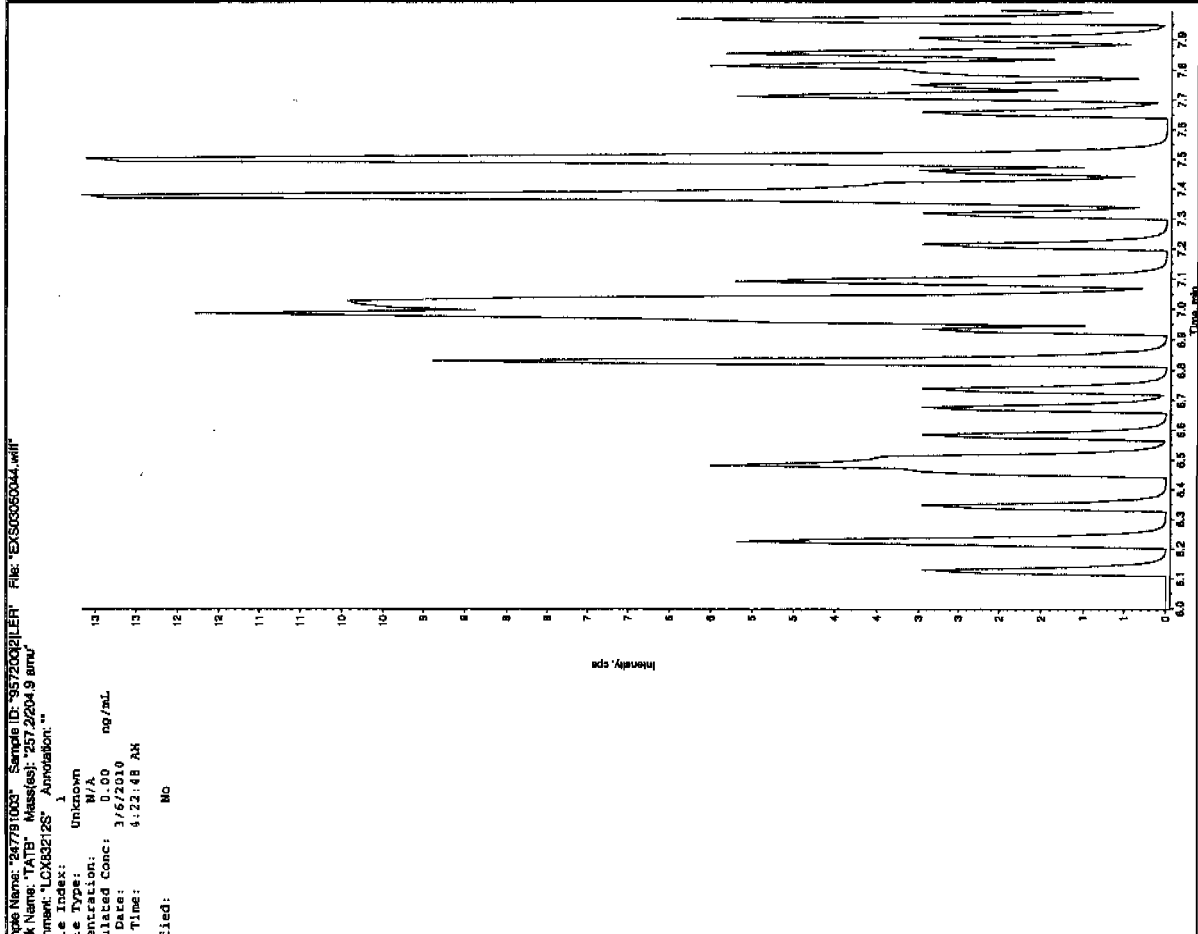
*Concentration =

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

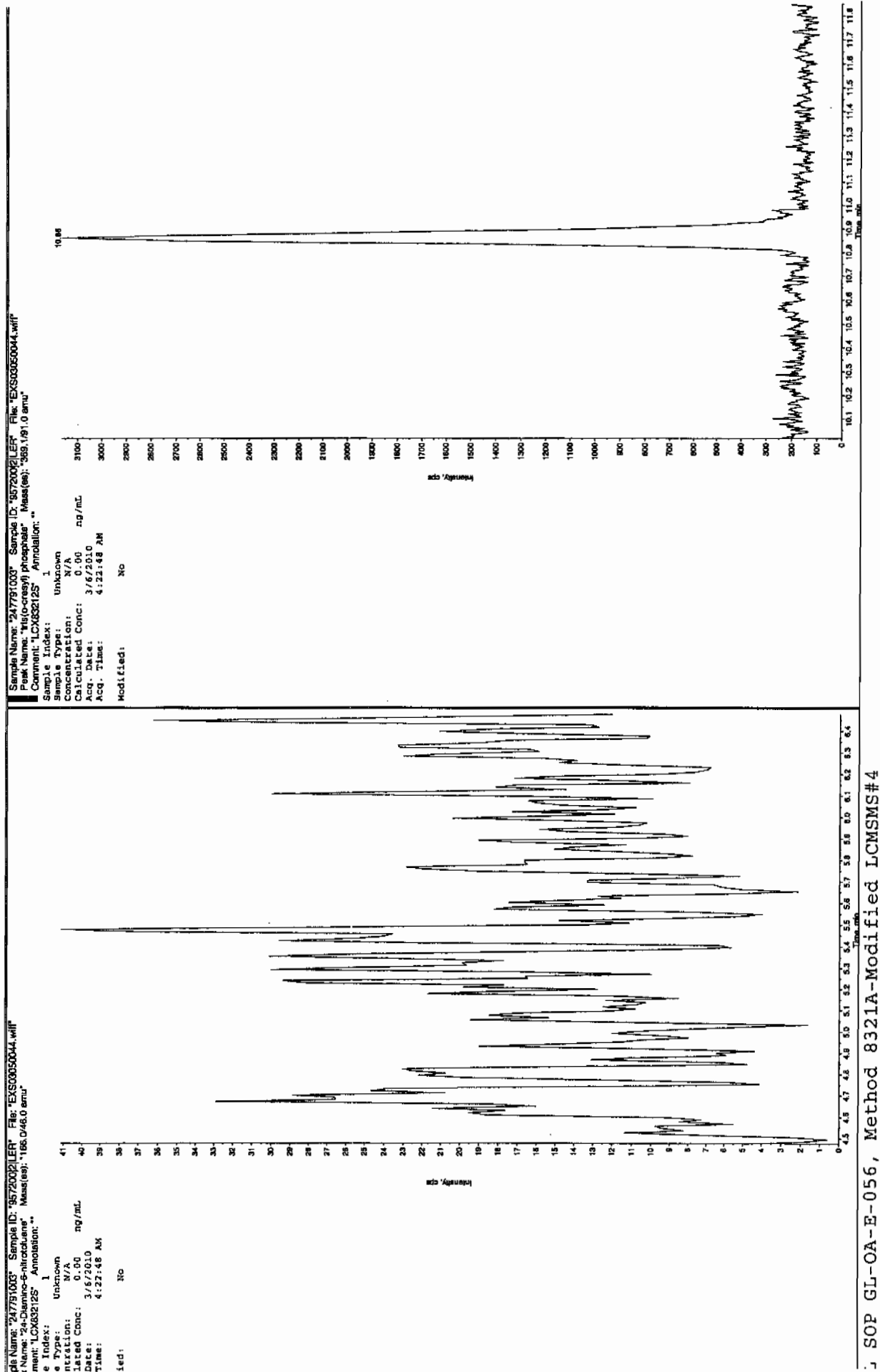
See 3/9/10



See 3/9/10



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314020a

Date Analyzed: 15-MAR-10 00:19

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314020a

Date: 15-Mar-2010

Time: 00:19:02

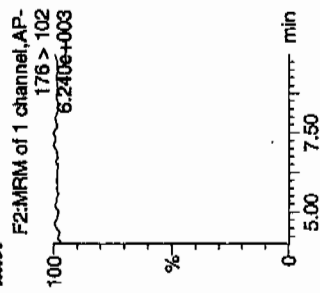
D: 247791004

/al: 2:2,B

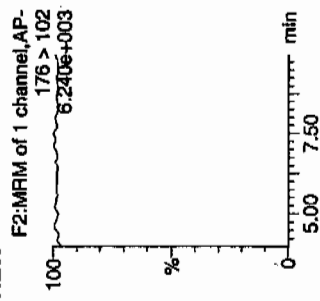
LUT
3/15/10

LNU | 957200 | 8022 | 21

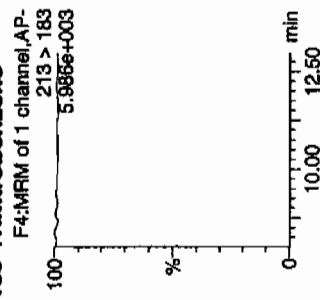
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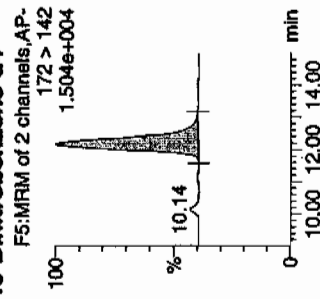
RDX



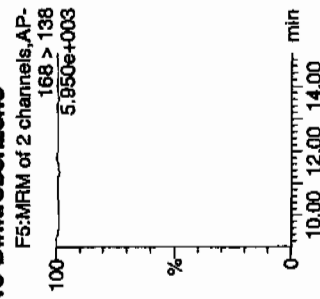
135-Trinitrobenzene



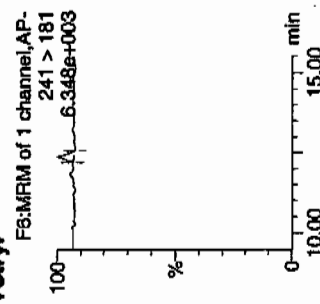
13-Dinitrobenzene-d4



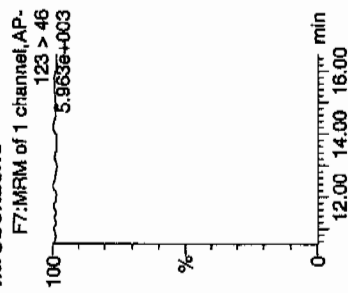
13-Dinitrobenzene



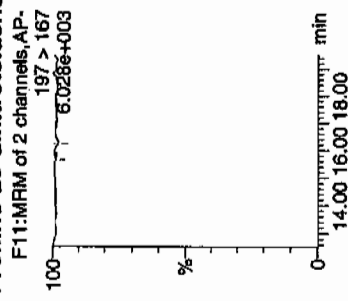
Tetryl



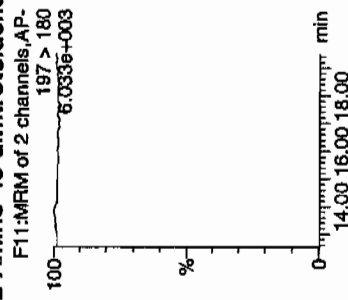
Nitrobenzene



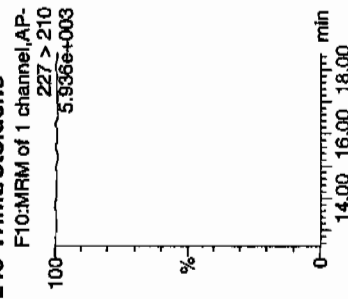
4-Amino-26-dinitrotoluene



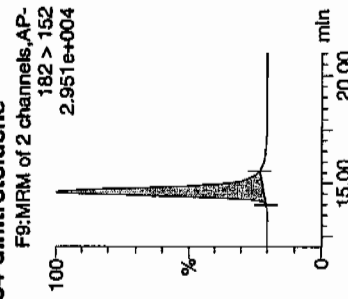
2-Amino-46-dinitrotoluene



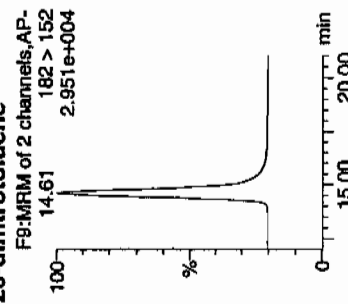
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene

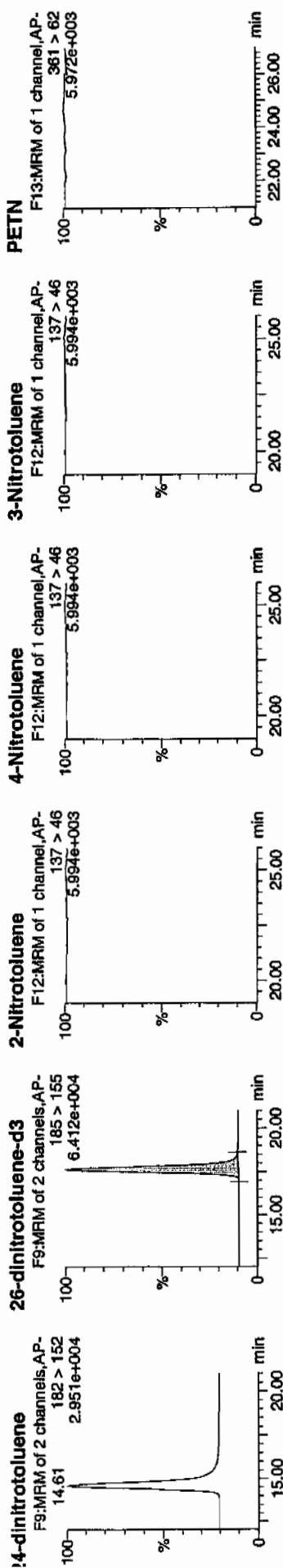


AP-25/10/10

Printed: Mon Mar 15 10:16:43 2010, Page 40 of 77

Quantify Sample Report
JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp\PRO031410expA.qld, Time: Mon Mar 15 10:15:48 2010



DI	Name	Trace	Area	IS Area	Response	Flags	Mod Date	Mod Time	Mod ML	Rec	Dev	SN
247791004	HMZ	176 > 102	3797.997	3797.997								
247791004	RDX	176 > 102	3797.997	3797.997								
247791004	135-Trinitrobenzene	213 > 183	3797.997	3797.997								
247791004	13-Dinitrobenzene-d4	172 > 142	12.18	3797.997	3797.997	bb	MM-	15-Mar-10	10:05:13	564.4319	112.9	280.6
247791004	13-Dinitrobenzene	168 > 138	3797.997	3797.997								
247791004	Tetryl	241 > 181	3797.997	3797.997								
247791004	Nitrobenzene	123 > 46	3797.997	3797.997								
247791004	4-Amino-26-dinitrotoluene	197 > 167	23712.498	23712.498								
247791004	2-Amino-46-dinitrotoluene	197 > 160	23712.498	23712.498								
247791004	246-Trinitrotoluene	227 > 210	23712.498	23712.498								
247791004	34-dinitrotoluene	182 > 152	14.61	11086.702	11086.702	bb				242.4397	97.0	833.7
247791004	26-dinitrotoluene	182 > 152	23712.498	23712.498								
247791004	24-dinitrotoluene	182 > 152	23712.498	23712.498								
247791004	26-dinitrotoluene-d3	185 > 155	17.64	23712.498	23712.498	bb				622.1910	124.4	3038.7
247791004	2-Nitrotoluene	137 > 46	23712.498	23712.498								
247791004	4-Nitrotoluene	137 > 46	23712.498	23712.498								
247791004	3-Nitrotoluene	137 > 46	23712.498	23712.498								
247791004	PETN	361 > 62	23712.498	23712.498								

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8316

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791004

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050045.wiff

Date Analyzed: 06-MAR-10 04:38

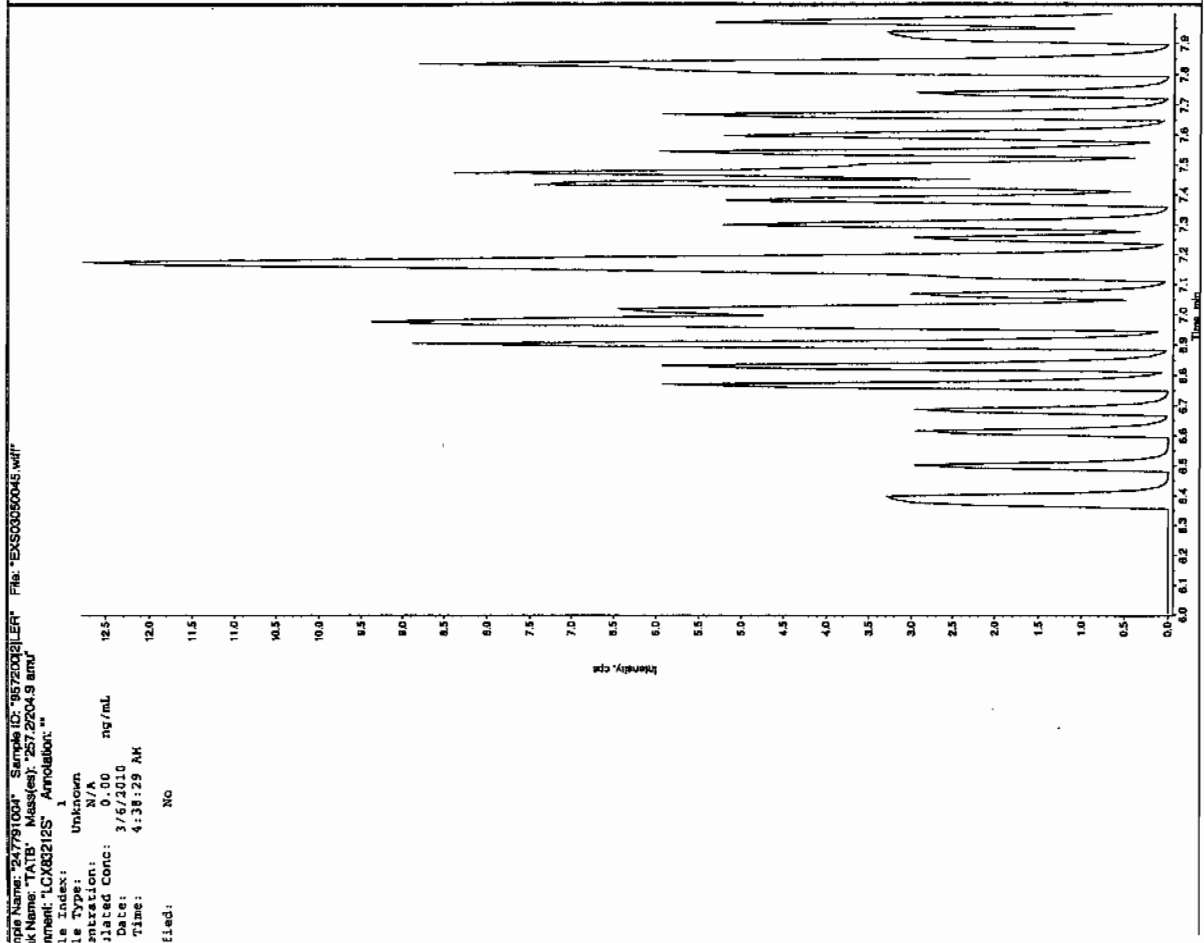
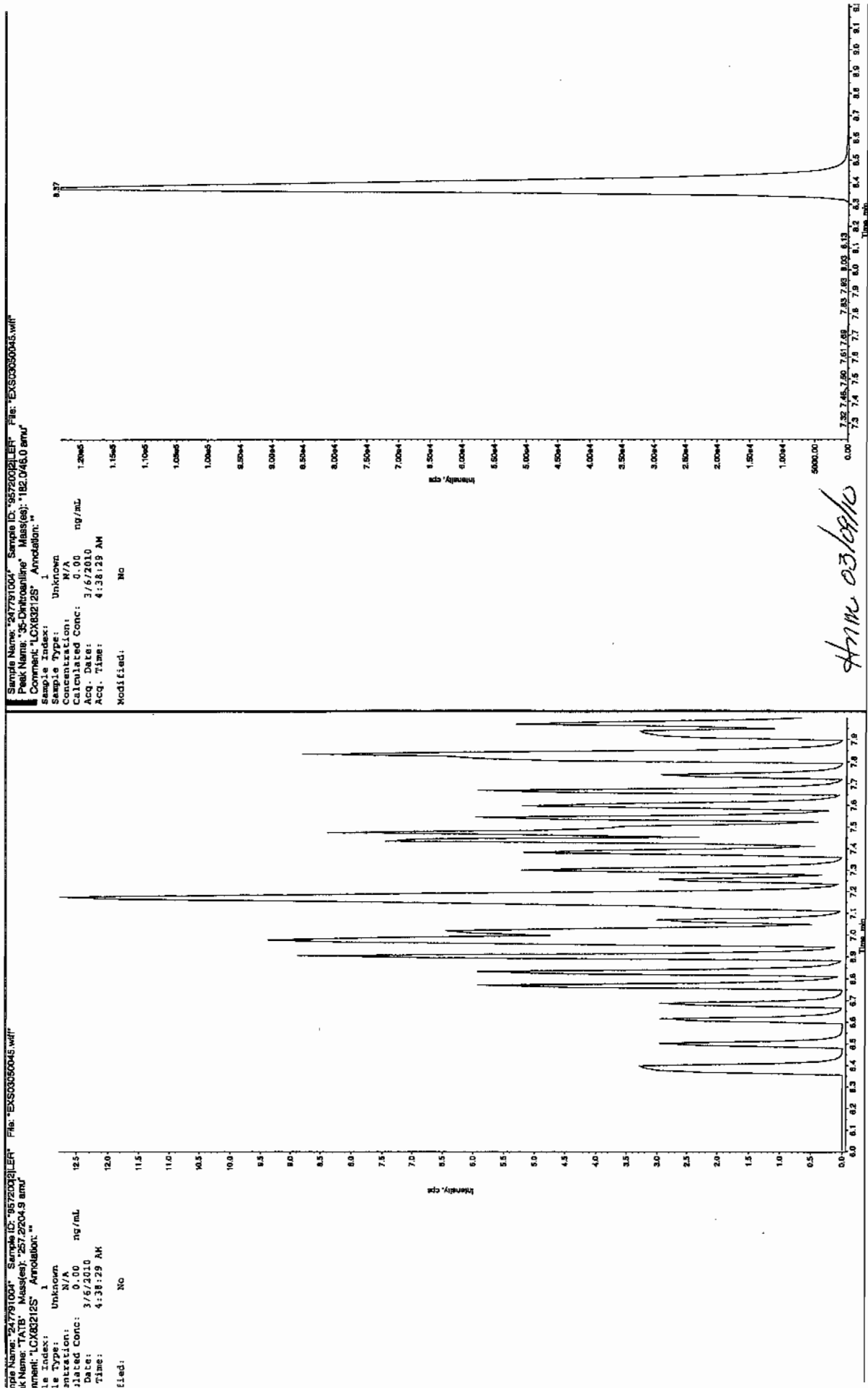
Units: ug/kg

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

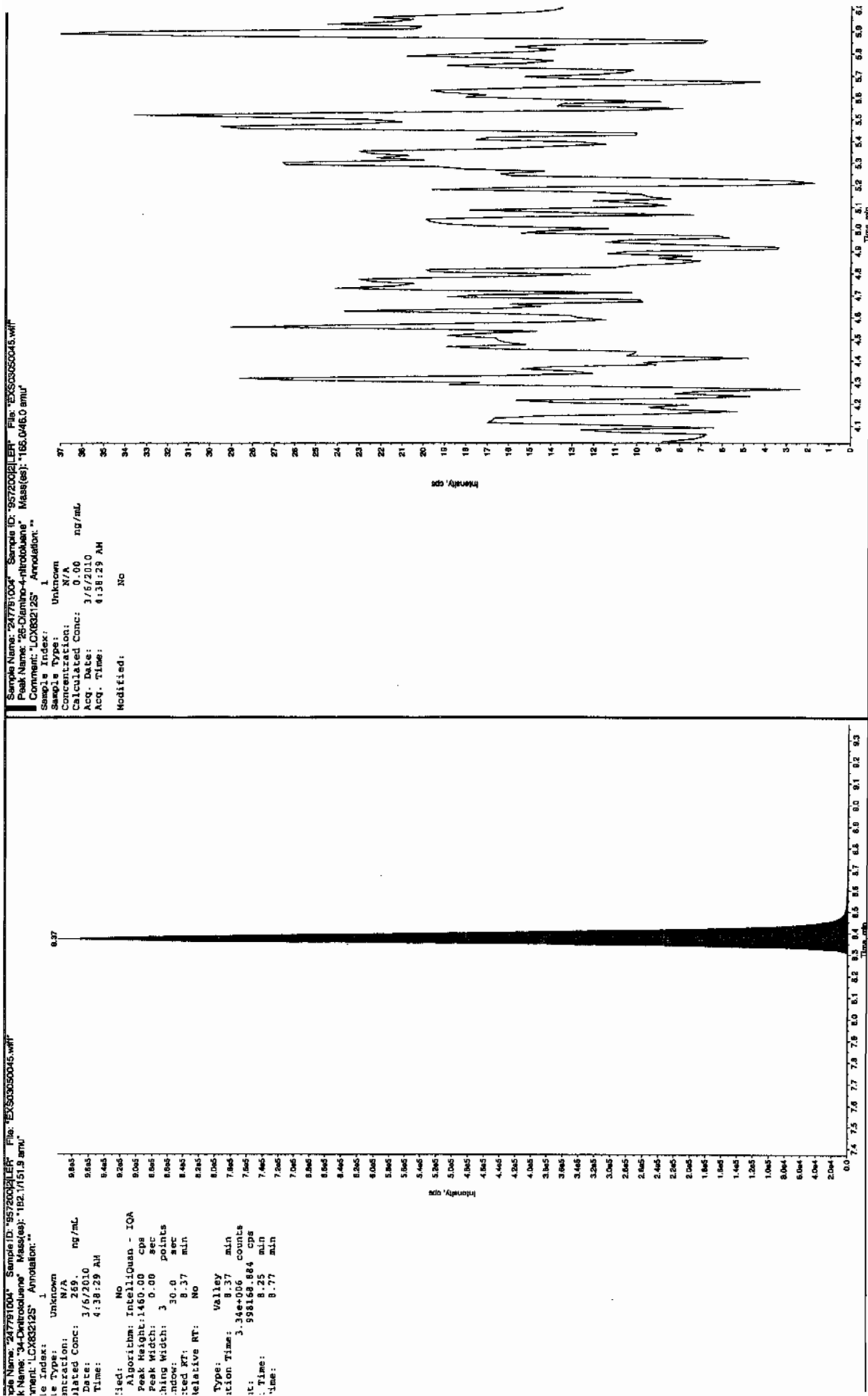
*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

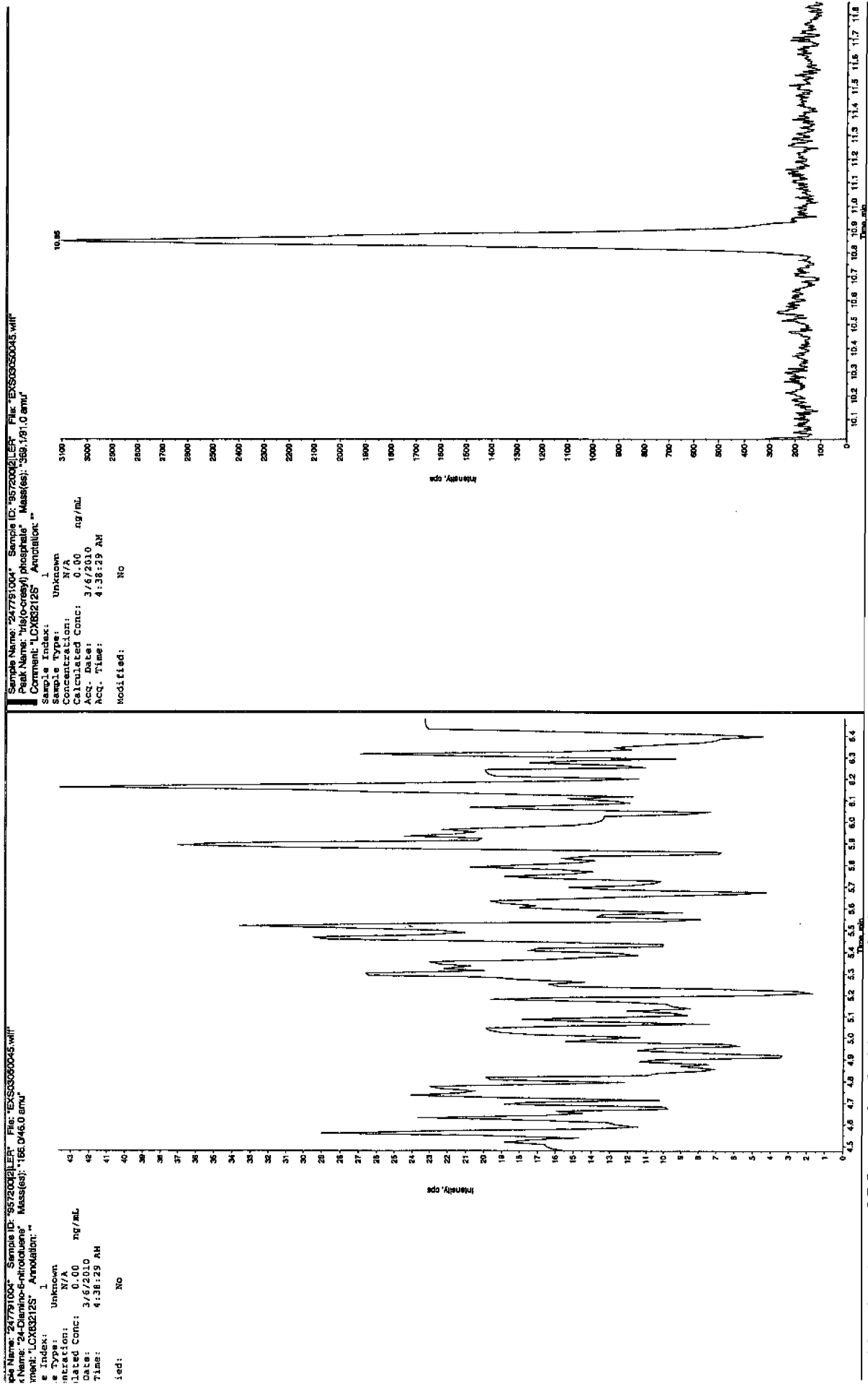
See 3/9/10



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314021a

Date Analyzed: 15-MAR-10 00:48

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314021a

Date: 15-Mar-2010

Time: 00:48:30

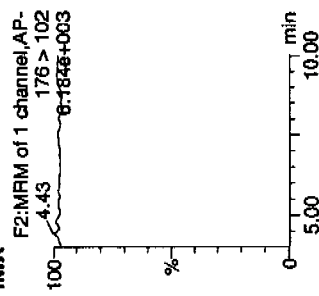
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File: 2:2,C

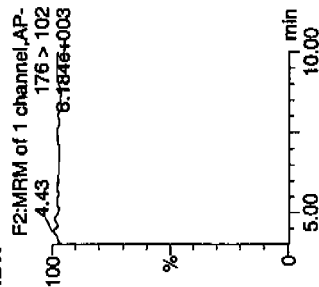
1477
3/15/10

1957200 | 8022 | 21

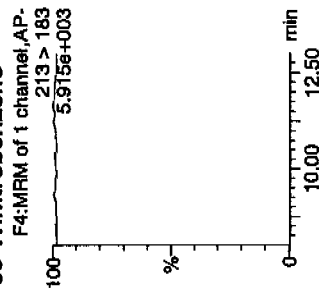
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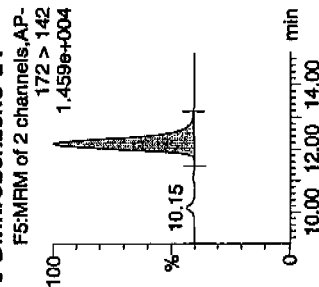
RDX



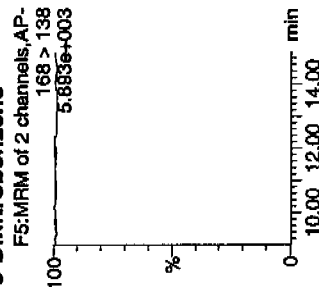
135-Trinitrobenzene



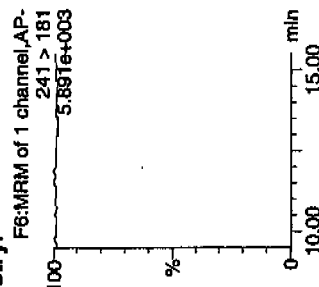
13-Dinitrobenzene-d4



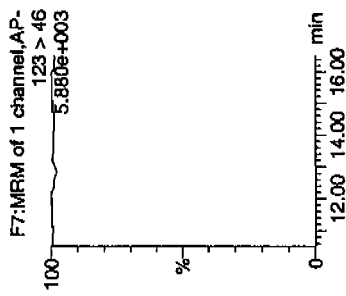
13-Dinitrobenzene



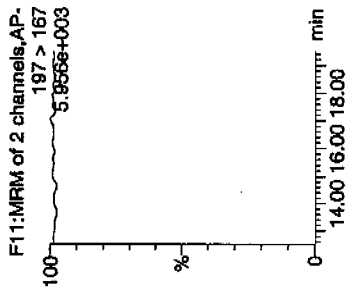
Tetryl



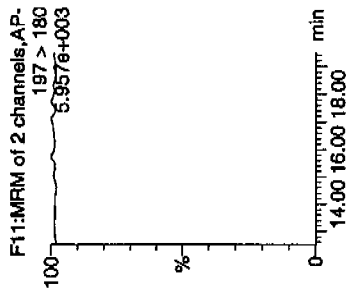
nitrobenzene



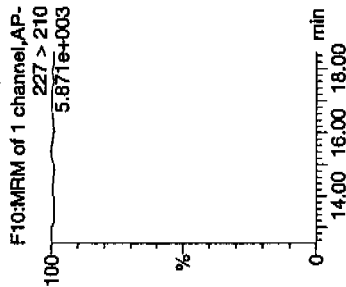
4-Amino-26-dinitrotoluene



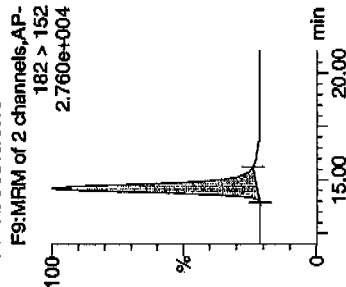
2-Amino-46-dinitrotoluene



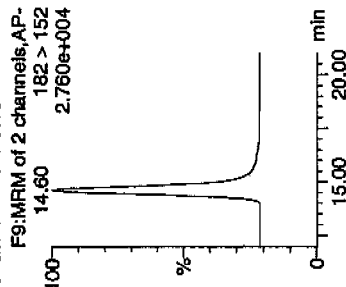
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



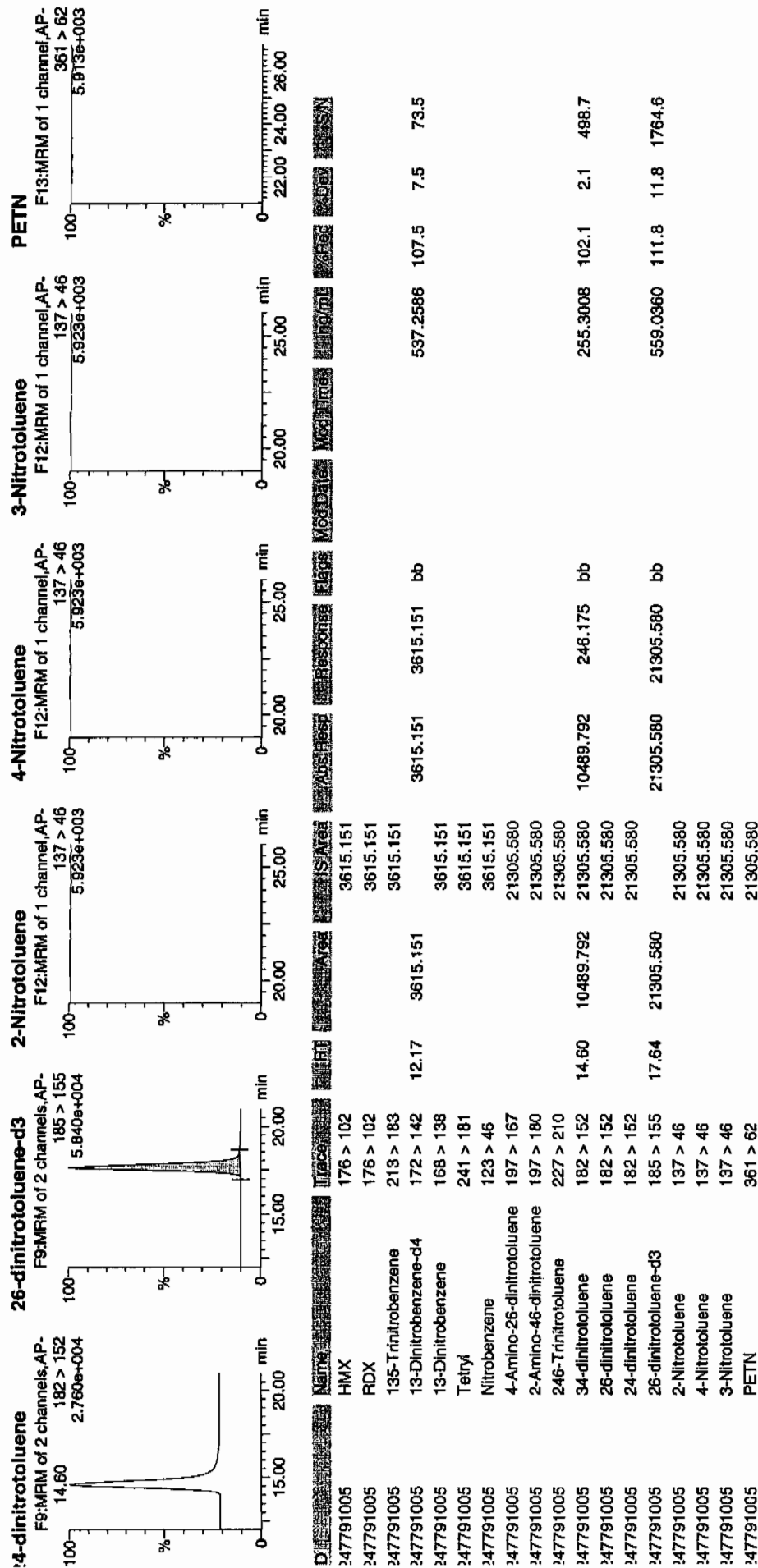
471123/10/10

Quantify Sample Report

IEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 42 of 77

Dataset: C:\MASSLYNX\New_Exp_PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: REF-10-8326

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791005

Sample Amount 2

Moisture: 4.0

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050046.wiff

Date Analyzed: 06-MAR-10 04:54

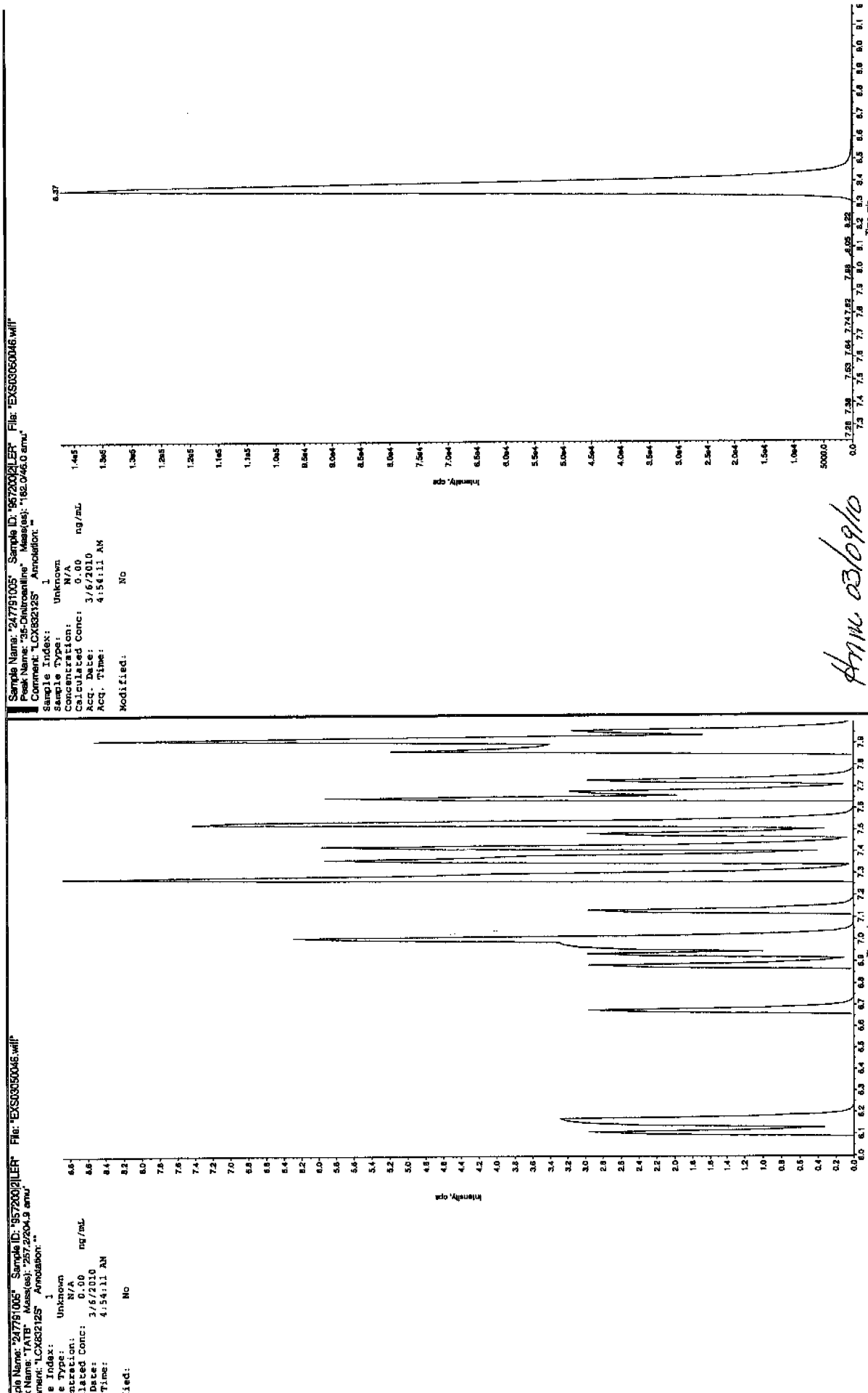
Units: µg/kg

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

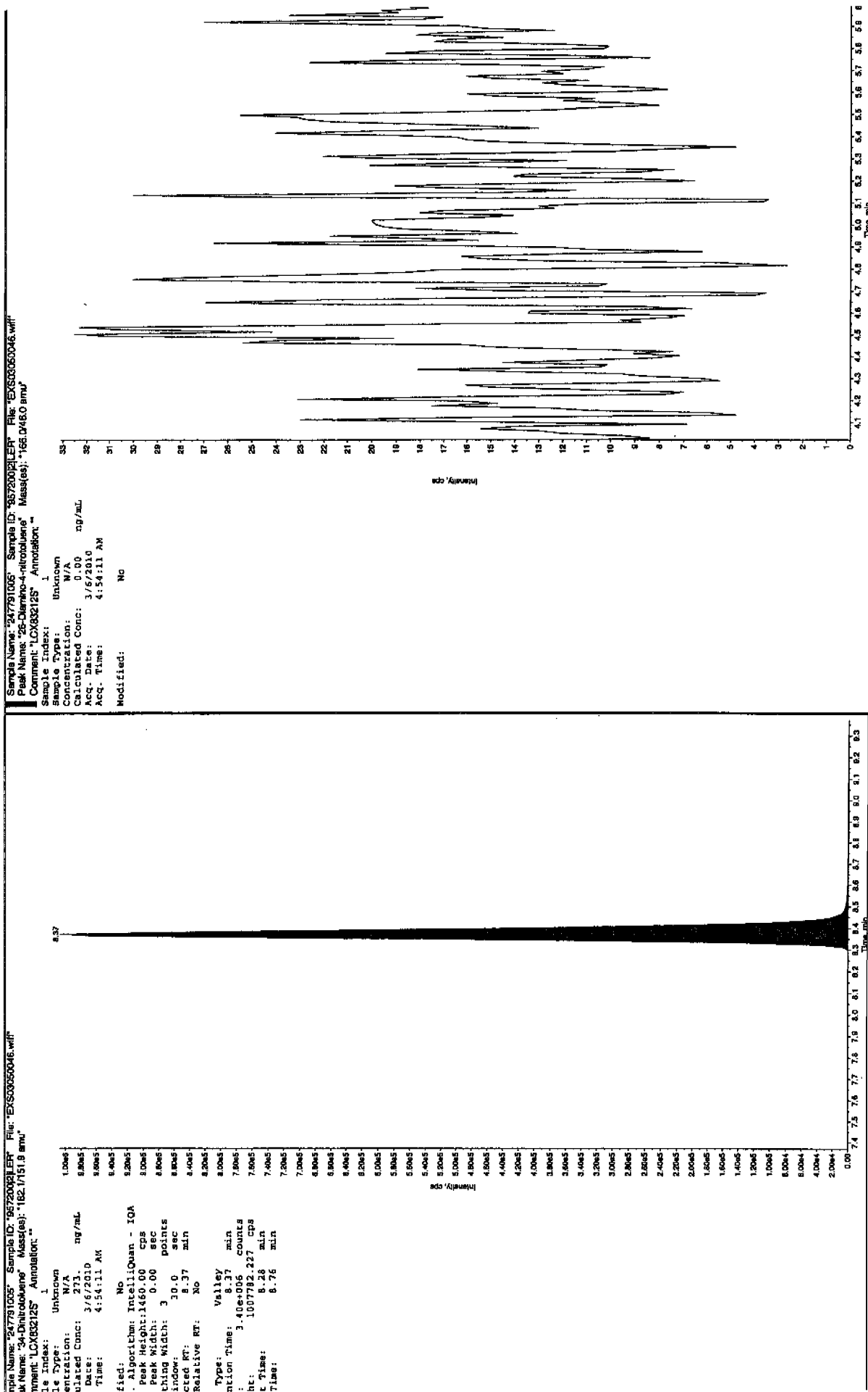
*Concentration =

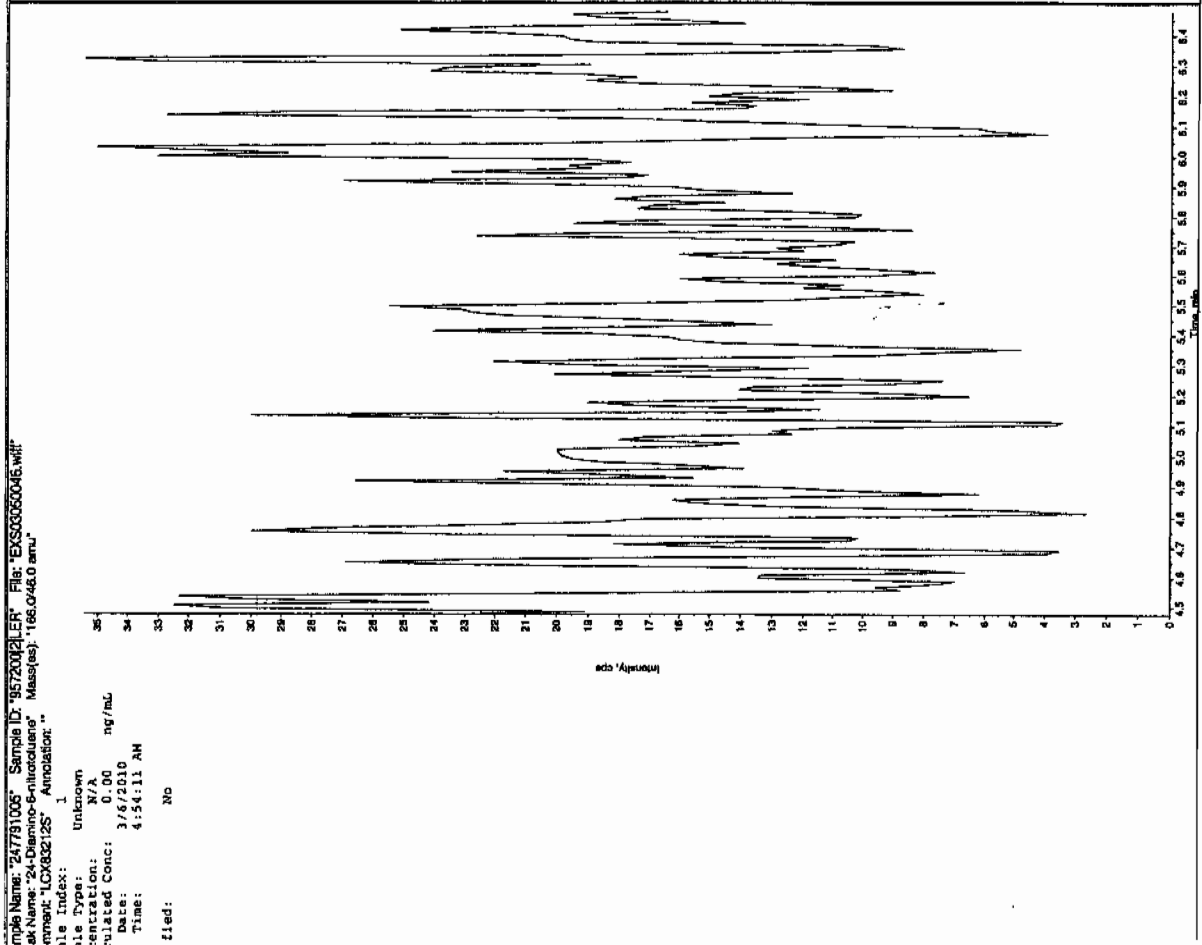
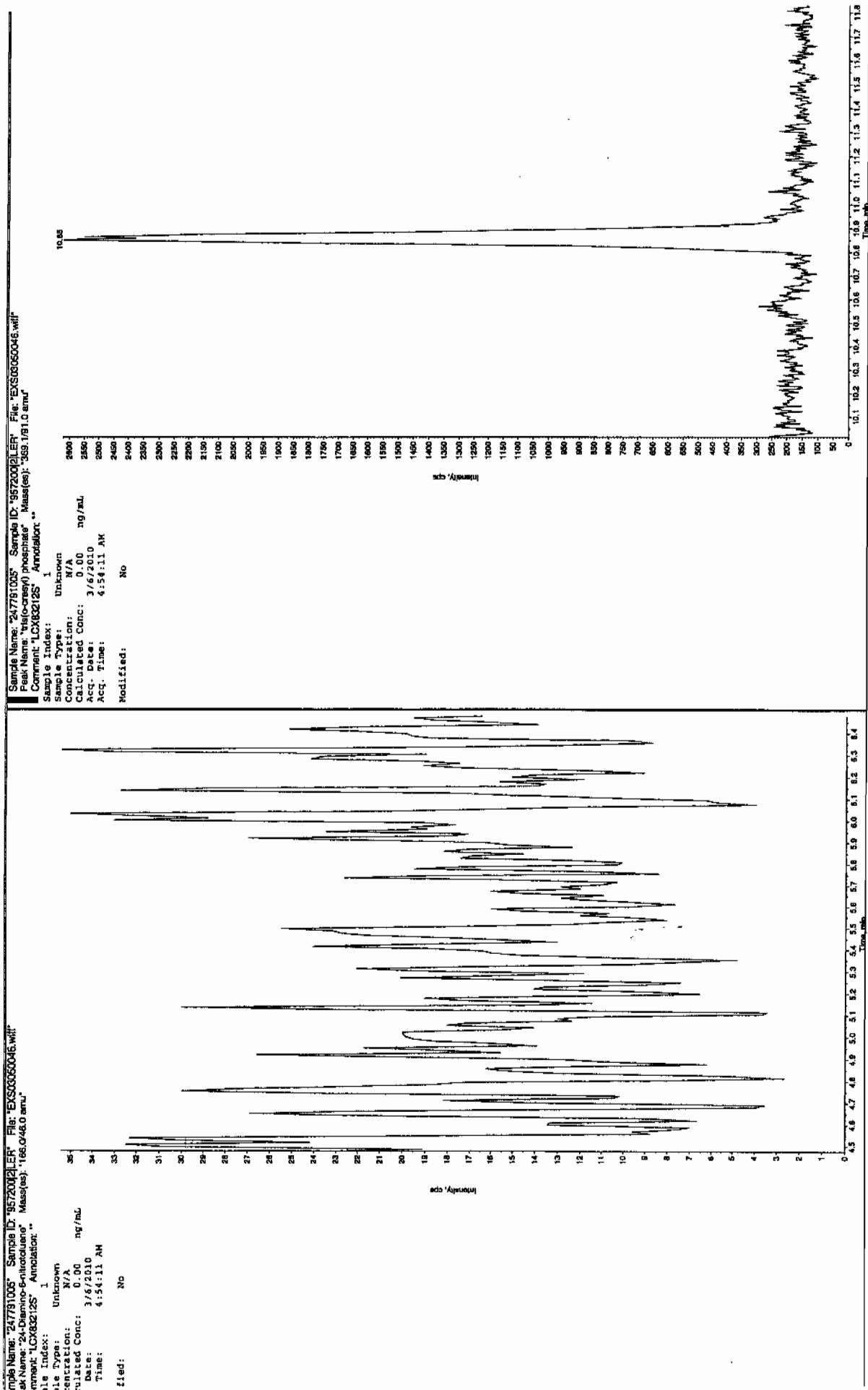
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

San 3/2/10



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Moisture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314022a

Date Analyzed: 15-MAR-10 01:17

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\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314022a

Date: 15-Mar-2010

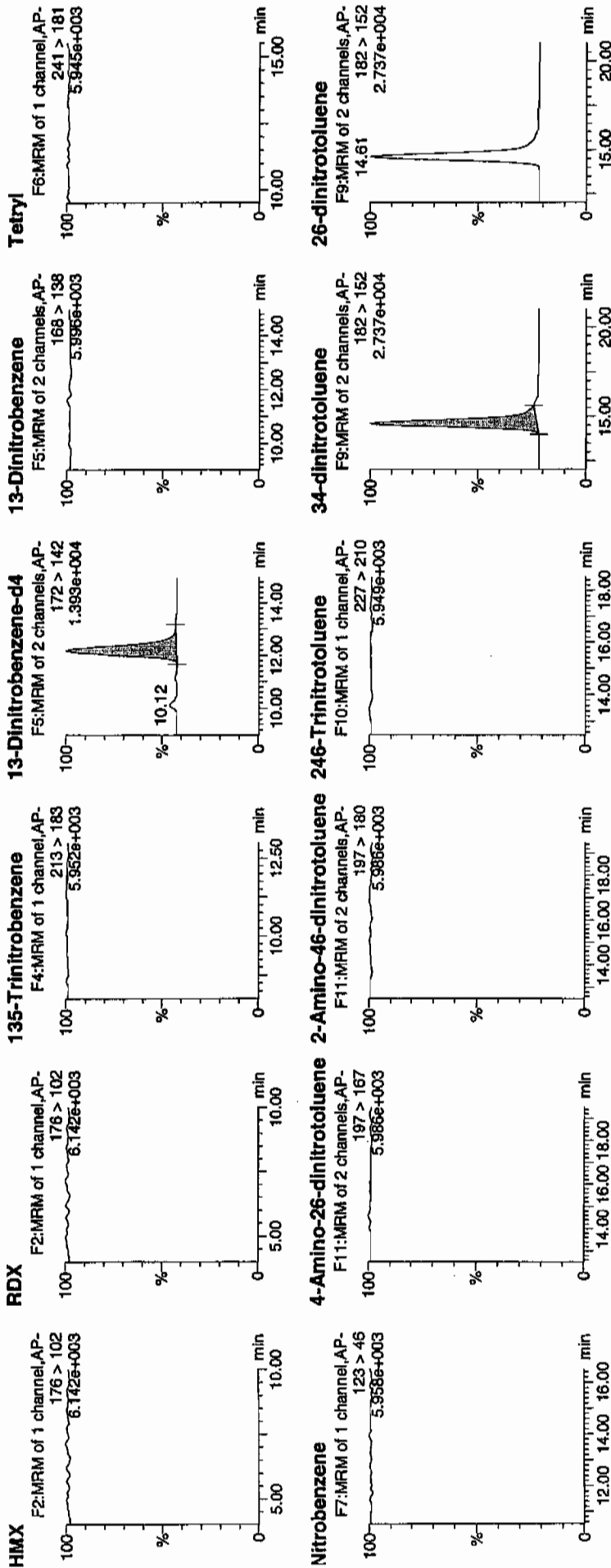
Time: 01:17:58

ID: 247791006

Vial: 2:2,D

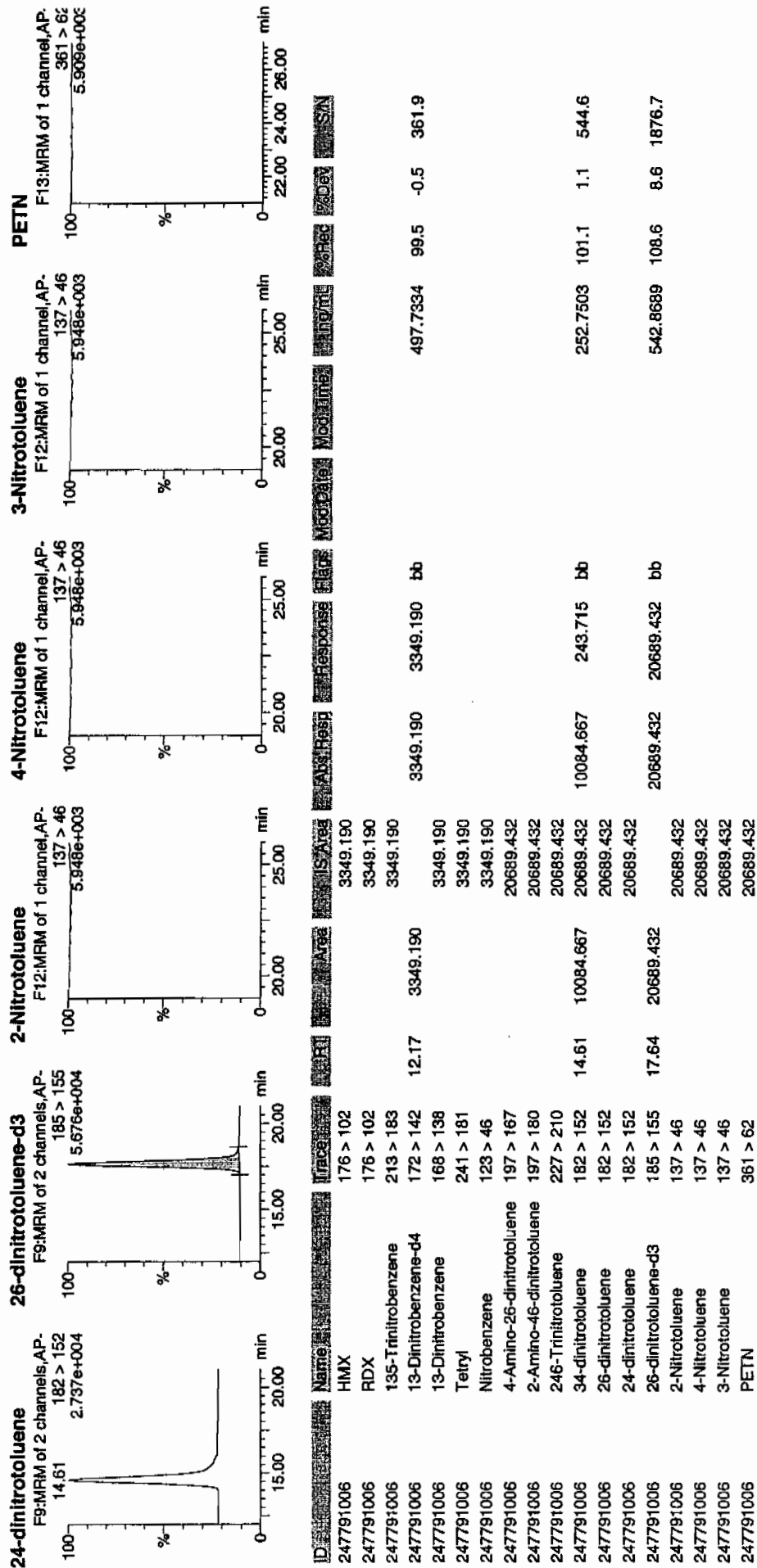
not
3/15/10

WAV 957200 | 8024 | 121



4/10/10 10/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8318

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 247791006

Sample Amount 2

Molsture: 4.5

Amount Units g

Date Received: 23-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050047.wiff

Date Analyzed: 06-MAR-10 05:09

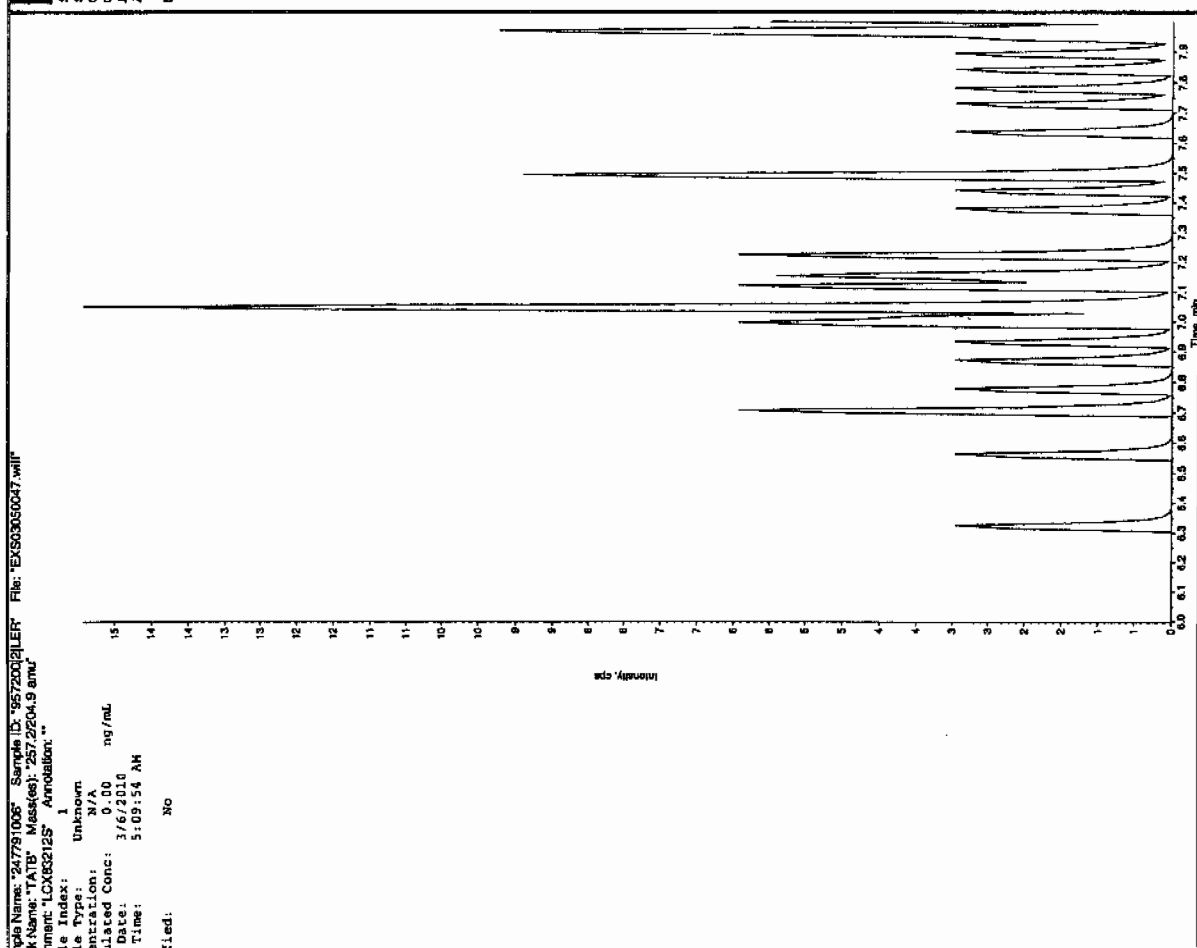
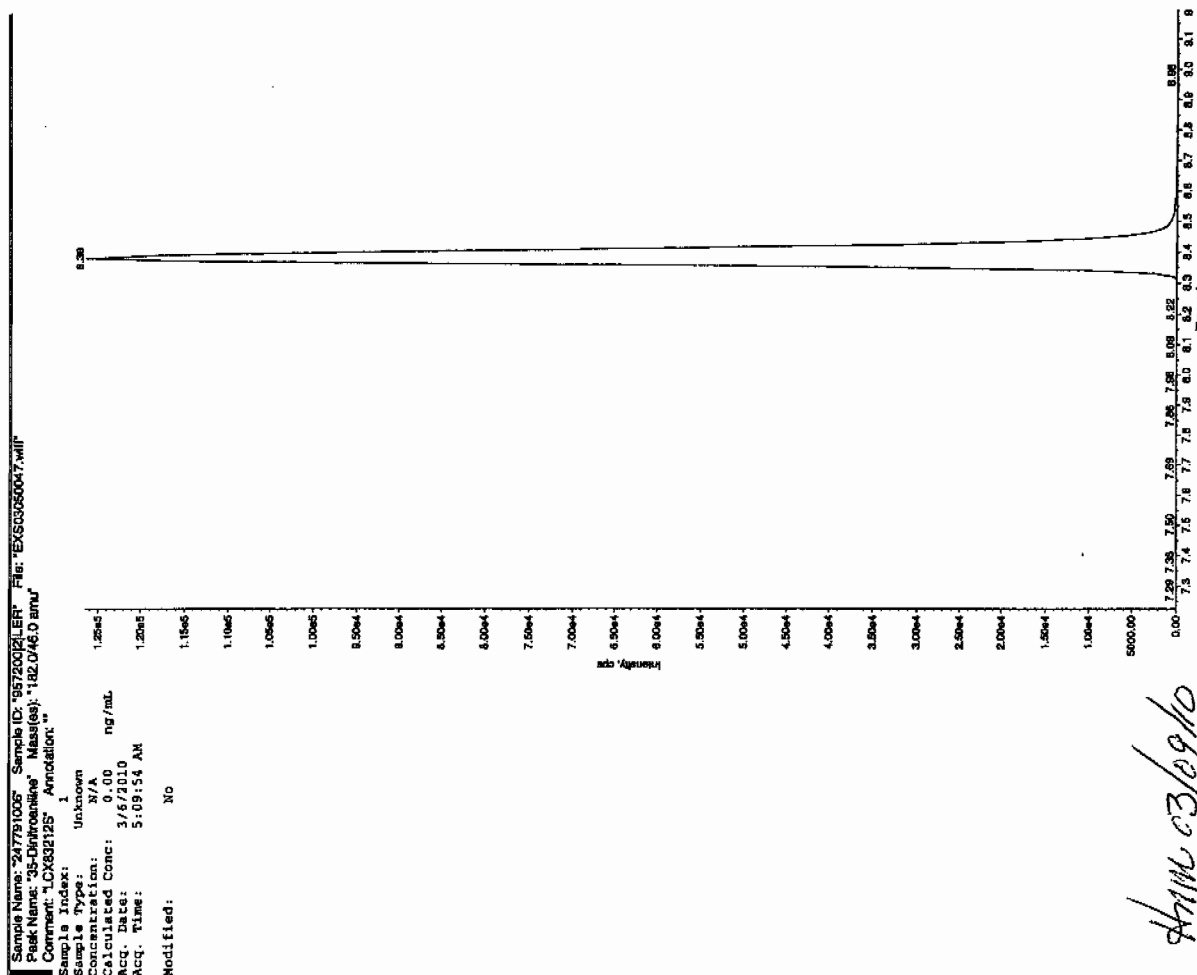
Units: ug/kg

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 3/9/10

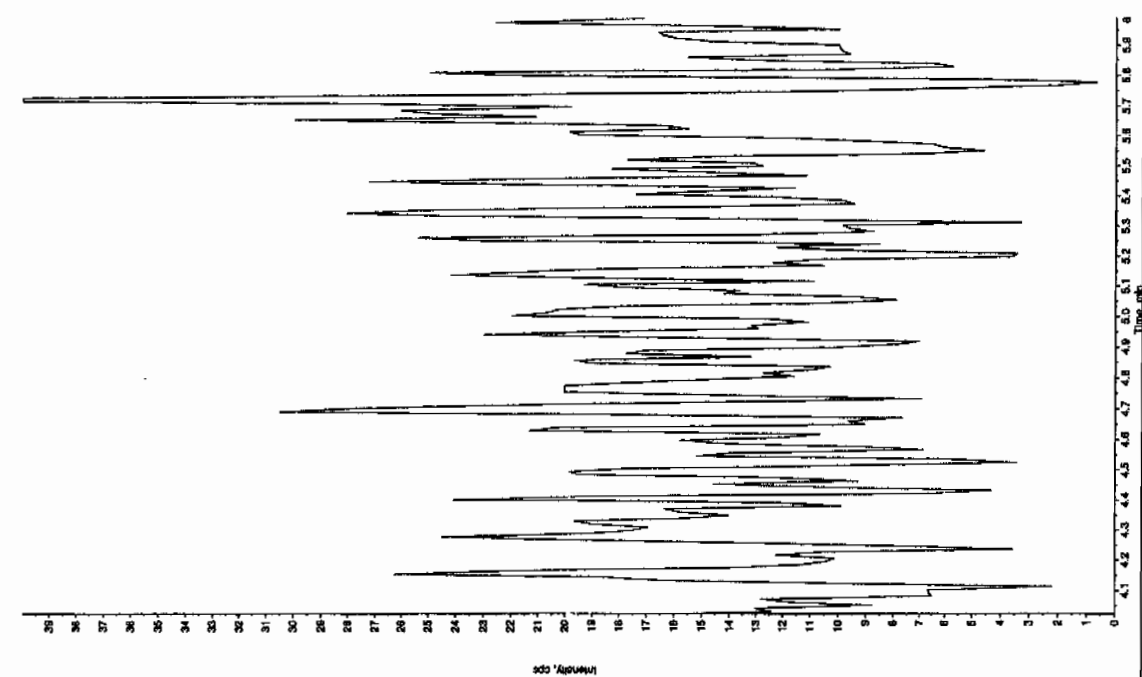
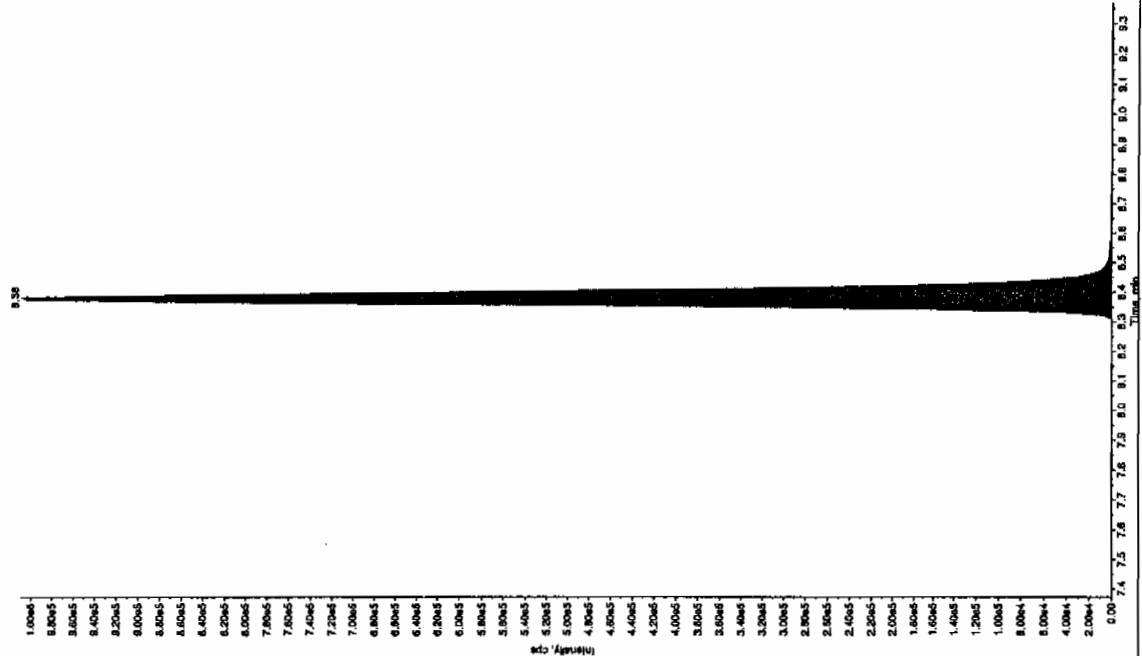


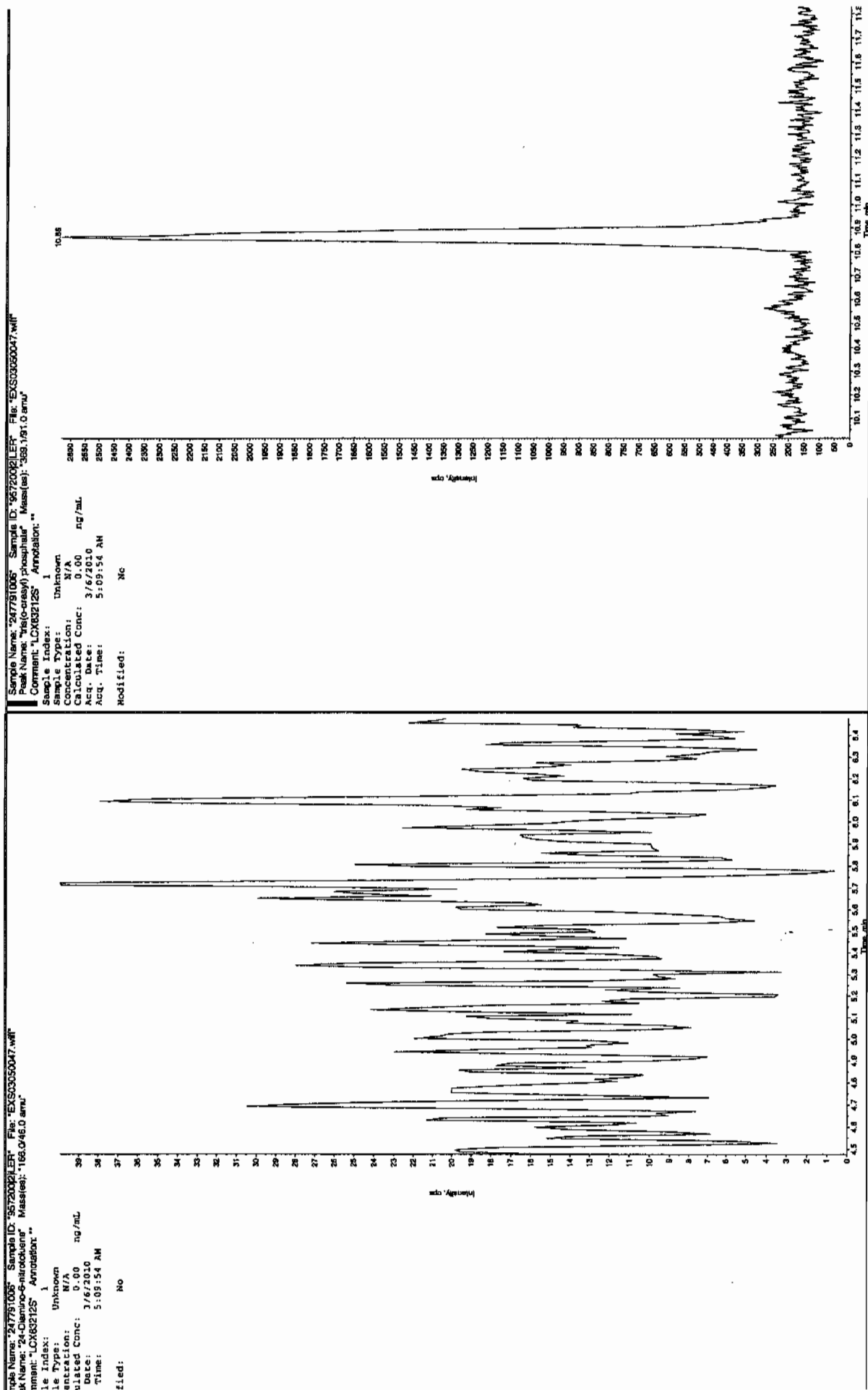
L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247791006" Sample ID: "957200121LER" File: "EXS03050047.wiff"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Invariant: "LCX832125" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Acq. Date:	3/6/2010
Acq. Time:	5:09:54 AM
Modified:	No

Instrument:	1	Unknown	mg/mL
Sample ID:	Unknown		
Concentration:	277		
Date:	3/6/2010		
Time:	5:09:54 AM		
Find:	No		
Algorithm:	Intellicou - IQ		
Peak Height:	1460.00	CPS	
Peak Width:	3.00	secs	
Window Width:	30.0	secs	
Window:	5.37	min	
Retarded RT:	No		
Type:	Valley	min	
Integration Time:	8.18	min	
Count:	345+006	counts	
Rate:	1009766.113	CPS	
T Time:	5.28	min	
Time:	5.71	min	





IL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
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)

Calibrator Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1982 Run Date: 05-MAR-10 14-MAR-10
 Lab Code: GEL Method: 8321A Modified HPLC Column: Phenomenex Ultracarb 5 ODS(20)
 LCMSMS Instrument ID: LCMSMS

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0314003a	EXP0314004a	EXP0314005a	EXP0314006a	EXP0314007a	EXP0314008a			
Data File:									
1,3,5-Trinitrobenzene	4.451	3.979	3.11	3.373	3.491	3.675	3.680	12.966	
1,3-Dinitrobenzene-d4	7.232	6.43	7.14	5.899	6.486	7.186	6.729	8.056	
2,4,6-Trinitrotoluene	.44	.296	.315	.313	.354	.328	0.341	15.306	
2,4-Dinitrotoluene	.252	.223	.234	.242	.252	.234	0.240	4.731	
2,6-Dinitrotoluene	1.195	1.162	1.095	1.086	1.097	1.116	1.125	3.879	
2,6-Dinitrotoluene-d3	35.525	38.022	42.425	35.013	41.029	36.654	38.111	7.919	
2-Amino-4,6-dinitrotoluene	.392	.37	.428	.384	.501	.391	0.411	11.712	
3,4-Dinitrotoluene	1.071	.886	.91	.922	.978	1.019	0.964	7.42	
4-Amino-2,6-dinitrotoluene	.402	.261	.295	.271	.346	.292	0.311	17.091	
HMX	3.919	3.14	3.408	3.215	4.964	3.288	3.656	19.093	
Nitrobenzene	.752	.822	.825	.859	.954	.71	0.820	10.362	
RDX	2.726	2.425	2.36	2.61	3.317	2.517	2.659	13.073	
Tetryl	.976	1.142	1.014	.809	.966	.777	0.947	14.288	
m-Dinitrobenzene	1.722	1.421	1.218	1.133	1.277	1.2	1.329	16.246	
m-Nitrotoluene	.106	.087	.093	.088	.093	.081	0.091	9.224	
o-Nitrotoluene	.164	.147	.158	.15	.158	.134	0.152	7.077	
p-Nitrotoluene	.083	.077	.081	.072	.078	.067	0.076	7.669	

Q column used to flag RSD values outside of Limit (>20%)
 * Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1982

Lab Code: GEL

Run Date: 05-MAR-10.14-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:	EXP0314003a	EXP0314004a	EXP0314005a	EXP0314006a	EXP0314007a	EXP0314008a					
Parameter:											
PETN	1696.46	2772.34	8585.36	17112.5	31106.9	36853.7	1.094	-.0001328	18.561	.9909	

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

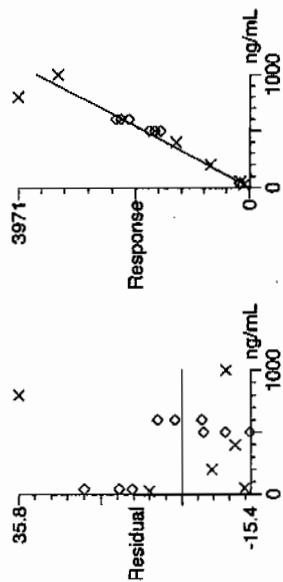
Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

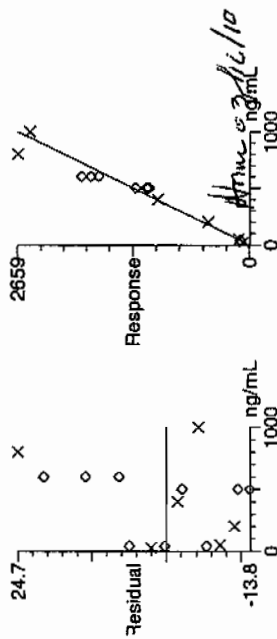
Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031410expa.mdb, Time: Mon Mar 15 09:25:32 2010
 Calibration: Untitled, Time: Mon Mar 15 10:15:48 2010

Compound name: HMX
 Response Factor: 3.65571
 RF SD: 0.697998, % Relative SD: 19.0934
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: RDX
 Response Factor: 2.65919
 RF SD: 0.347639, % Relative SD: 13.0731
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



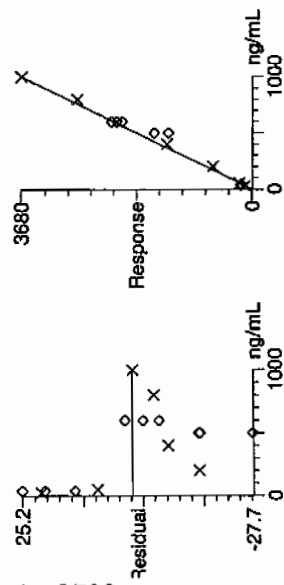
Quantify Calibration Report

EL Laboratories, LLC / Analyst: Michael A. Penny

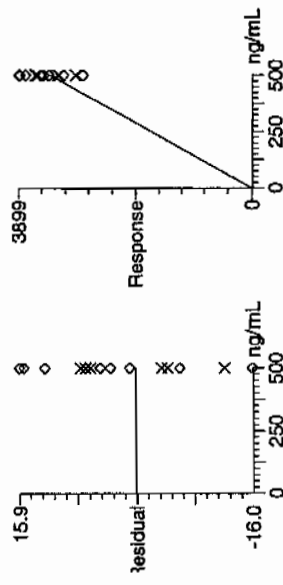
Printed: Mon Mar 15 10:16:43 2010, Page 2 of 9

Dataset: C:\MASSLYNX\New_Exp\PRO031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 135-Trinitrobenzene
 Response Factor: 3.67993
 RF SD: 0.477131, % Relative SD: 12.9658
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



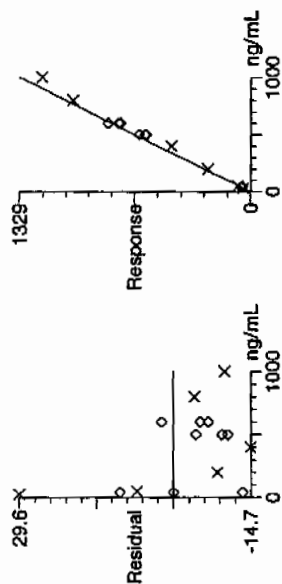
Compound name: 13-Dinitrobenzene-d4
 Response Factor: 6.72888
 RF SD: 0.54206, % Relative SD: 8.05572
 Response type: External Std, Area
 Curve type: RF



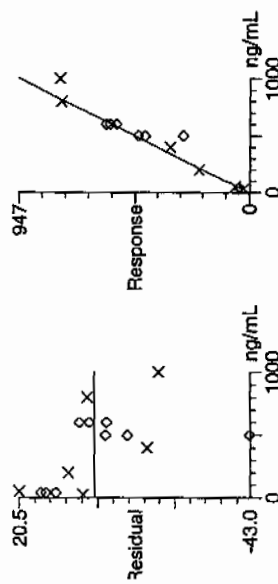
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.32854
RRF SD: 0.215838, % Relative SD: 16.2463
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

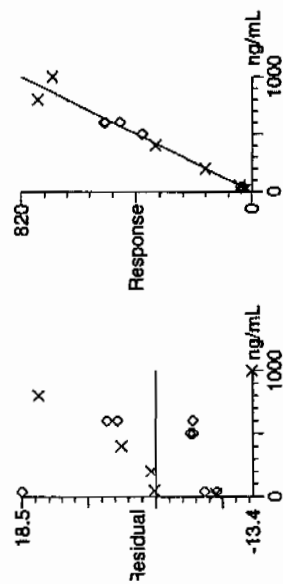


Compound name: Tetraol
Response Factor: 0.947232
RRF SD: 0.135343, % Relative SD: 14.2882
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

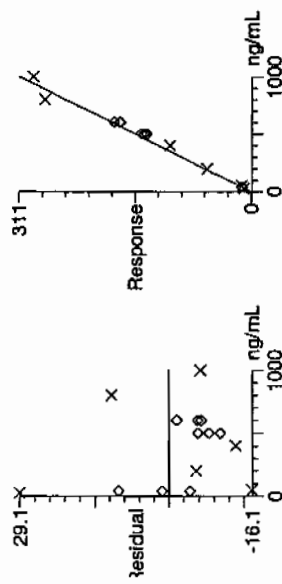


Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: Nitrobenzene
Response Factor: 0.820337
IRF SD: 0.0850068, % Relative SD: 10.3624
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area.)
Curve type: RF



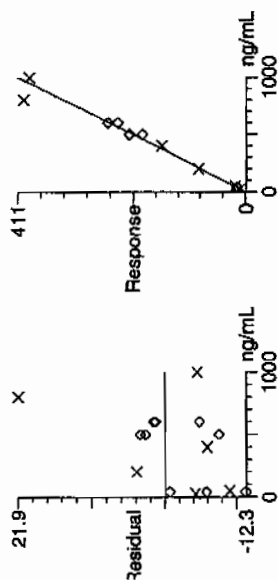
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.311252
IRF SD: 0.053196, % Relative SD: 17.091
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area.)
Curve type: RF



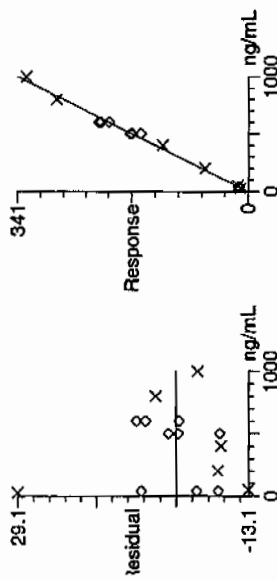
Quantify Calibration Report
 JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.410915
 IRF SD: 0.0481257, % Relative SD: 11.7118
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF

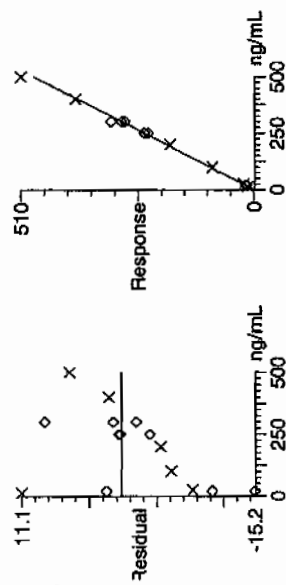


Compound name: 246-Trinitrotoluene
 Response Factor: 0.341077
 IRF SD: 0.0522035, % Relative SD: 15.3055
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF

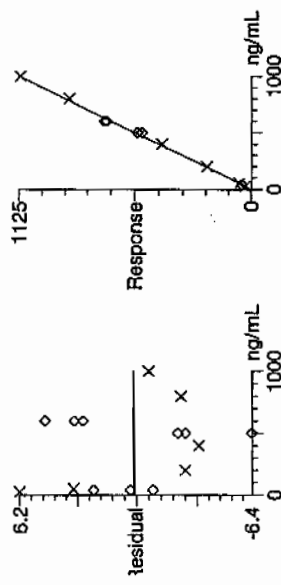


Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 34-dinitrotoluene
Response Factor: 0.964254
IRF SD: 0.0715434, % Relative SD: 7.41956
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



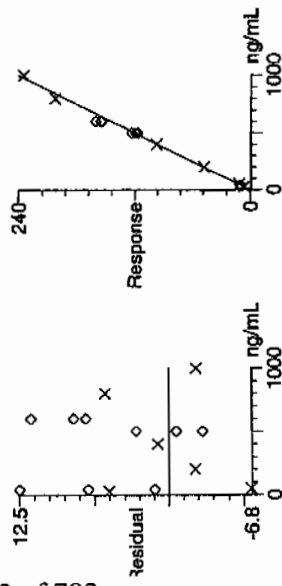
Compound name: 26-dinitrotoluene
Response Factor: 1.12508
IRF SD: 0.0436387, % Relative SD: 3.87872
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



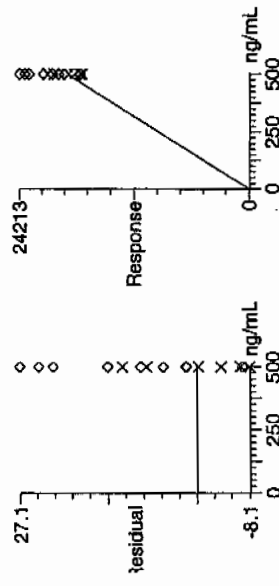
Quantify Calibration Report
 iEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.239516
 IRF SD: 0.0113317, % Relative SD: 4.73111
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



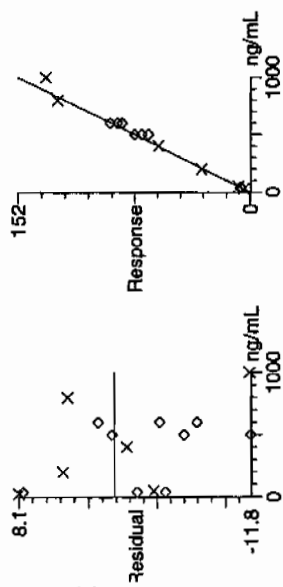
Compound name: 26-dinitrotoluene-d3
 Response Factor: 38.1113
 IRF SD: 3.01799, % Relative SD: 7.91889
 Response type: External Std, Area
 Curve type: RF



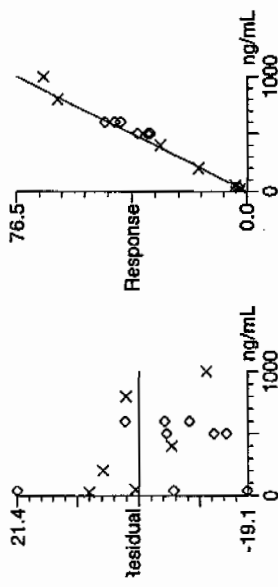
Quantify Calibration Report
 JEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.151748
 RF SD: 0.0107392, % Relative SD: 7.07703
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



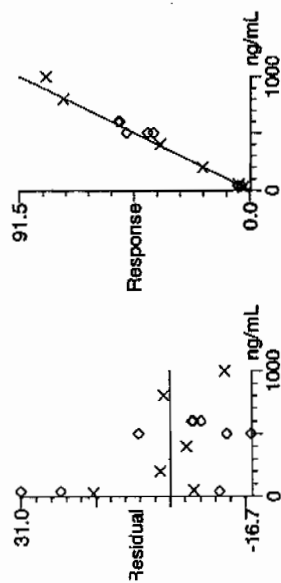
Compound name: 4-Nitrotoluene
 Response Factor: 0.0764562
 RF SD: 0.00586344, % Relative SD: 7.66902
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



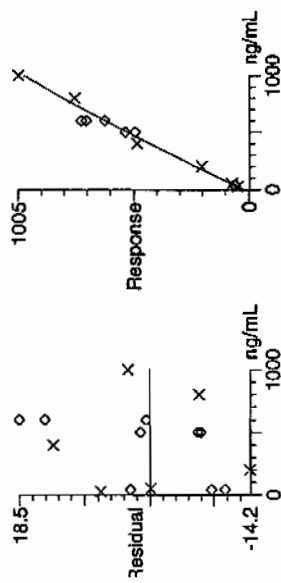
Quantify Calibration Report
iEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.091452
RF SD: 0.00843596, % Relative SD: 9.22446
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Coefficient of Determination: 0.990878
Calibration curve: $-0.000132821 \cdot x^2 + 1.09448 \cdot x + 18.5607$
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): 10-1982

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0314010a

Analysis Date: 14-MAR-10 19:24

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	647.933	108	
2,6-Dinitrotoluene	600	619.219	103	
2,6-Dinitrotoluene-d3	500	464.57	93	
2-Amino-4,6-dinitrotoluene	600	568.004	95	
3,4-Dinitrotoluene	300	294.779	98	
4-Amino-2,6-dinitrotoluene	600	566.927	94	
HMX	600	573.087	96	
Nitrobenzene	600	640.134	107	
PETN	600	711.078	119	
RDX	600	646.997	108	
Tetryl	600	608.116	101	
m-Dinitrobenzene	600	613.453	102	
m-Nitrotoluene	600	573.227	96	
o-Nitrotoluene	600	608.034	101	
p-Nitrotoluene	600	614.277	102	
1,3,5-Trinitrobenzene	600	584.915	97	
1,3-Dinitrobenzene-d4	500	419.791	84	
2,4,6-Trinitrotoluene	600	596.891	99	

Recovery Limits:

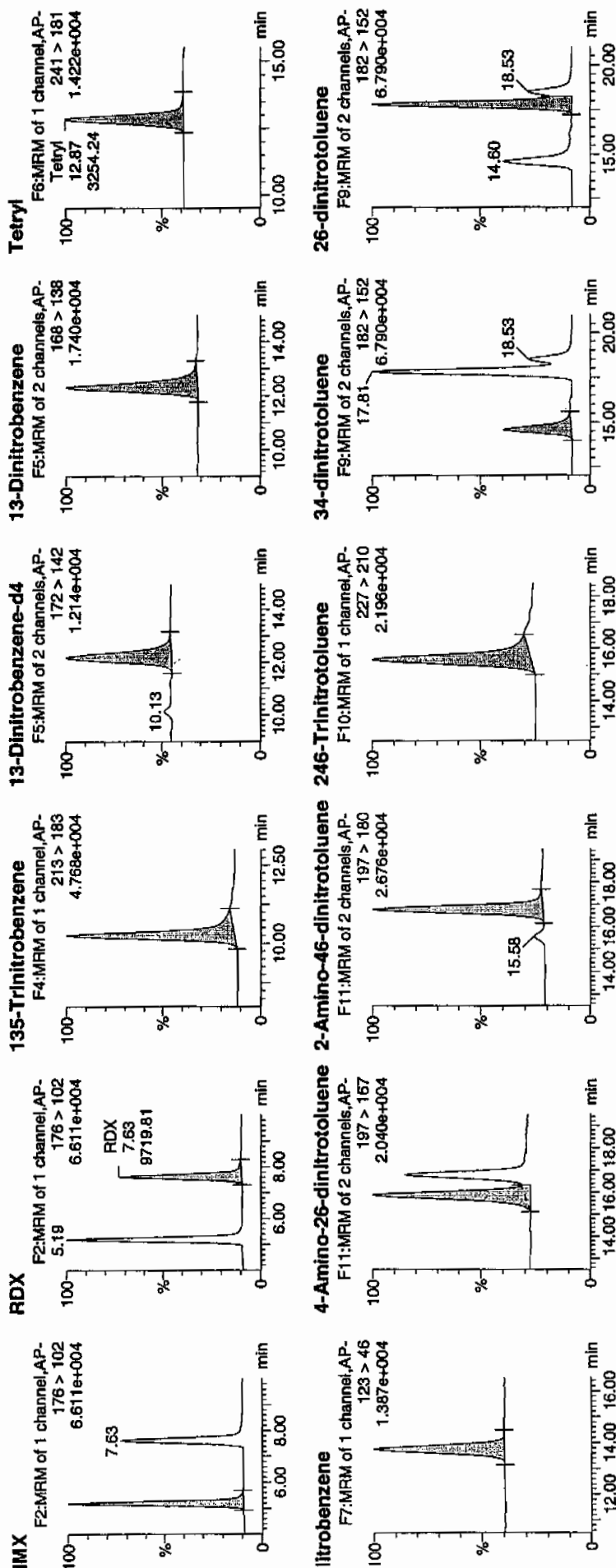
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

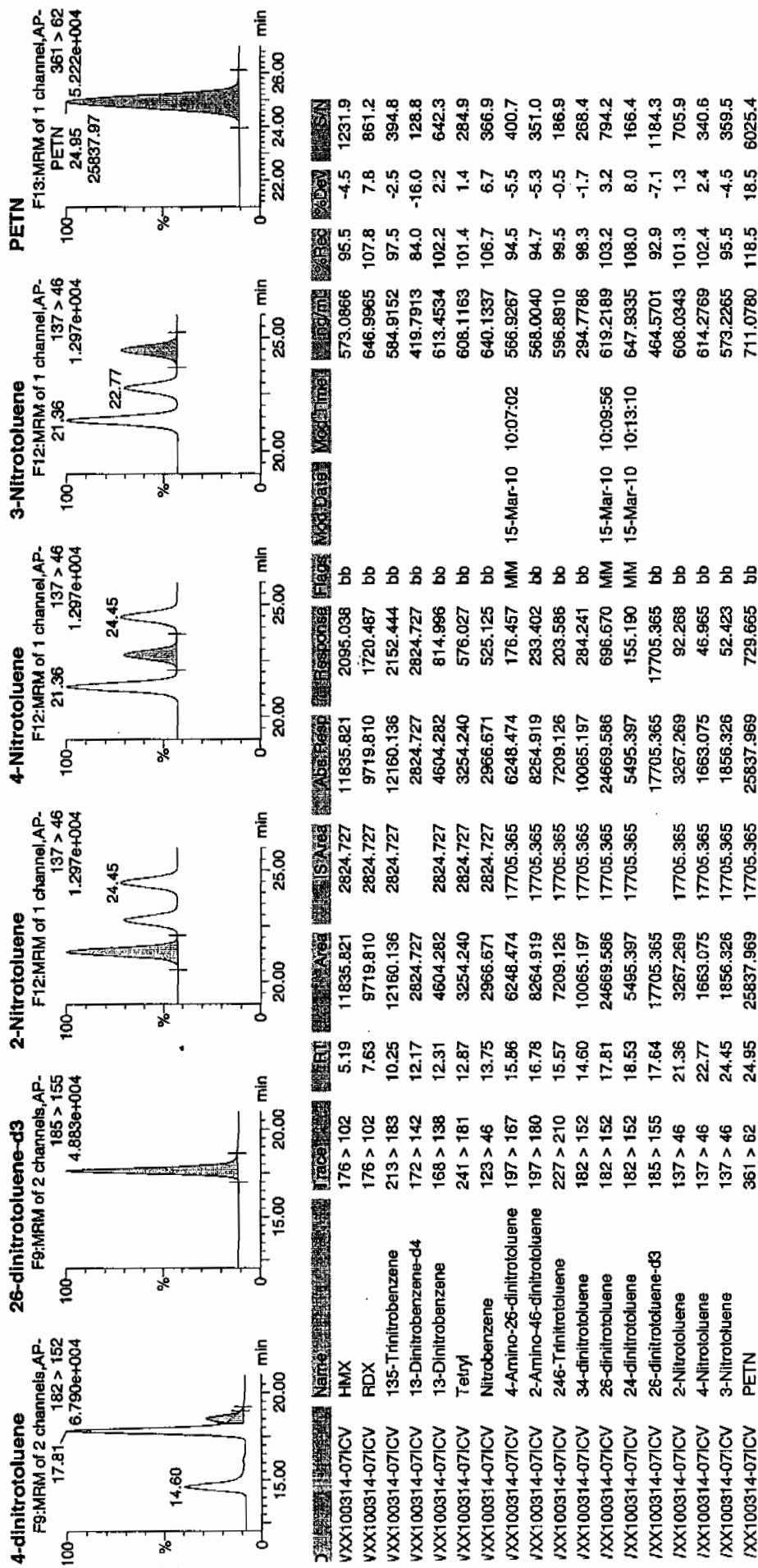
* Value outside of Recovery Limits

3/15/10



Handwritten signature

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/14/10
 Time of Injection: 1924
 Standard Number: WXX100314-07ICV
 Data File: EXP0314010a

HMX	95.5
RDX	107.8
135-TNB	97.5
13-DNB	102.2
Tetryl	101.4
Nitrobenzene	106.7
4A-26-DNT	94.5
2A-46-DNT	94.7
246-TNT	99.5
34-DNT(surr)	98.3
26-DNT	103.2
24-DNT	108.0
2-NT	101.3
4-NT	102.4
3-NT	95.5
PETN	118.5

MTF 3/15/10

Total 1627.0

Average 101.7

MTF 03/16/10

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: 10-1982

Lab Code: GEL

Run Date: 05-MAR-10 14-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC L-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03050003.wiff	EXS03050004.wiff	EXS03050005.wiff	EXS03050006.wiff	EXS03050007.wiff	EXS03050008.wiff	EXS03050009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	85600	188000	436000	918000	1500000	1790000	3780000	-5040	1860	.016	.9992	
2,6-Diamino-4-nitrotoluene	126000	257000	638000	1300000	2090000	2570000	5220000	-13200	2690	-.037	.9996	
3,4-Dinitrotoluene	307000	593000	1470000	2930000	4500000	5680000	10400000	-66800	13500	-3.11	.9976	
3,5-Dinitroaniline	462000	868000	2040000	4020000	6030000	7500000	12600000	-18600	8840	-1.27	.9999	
TATB	63200	132000	333000	729000	1100000	1480000	3120000	-13200	1430	.069	1	
Iris(o-cresyl) phosphate	950000	1920000	4370000	8500000	12200000	15100000	25100000	123000	17900	-2.71	.9999	

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

030510ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.32e+004			
a1	1.43e+003			
a2	0.0686			
Correlation coefficient 1.0000				
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.86e+004			
a1	8.84e+003			
a2	-1.27			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-6.68e+004			
a1	1.35e+004			
a2	-3.11			
Correlation coefficient 0.9976				
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	-1.32e+004			
a1	2.69e+003			
a2	-0.0366			
Correlation coefficient 0.9996				
Use Area				

Ken 3/9/10

41102/04/110

030510ICAL

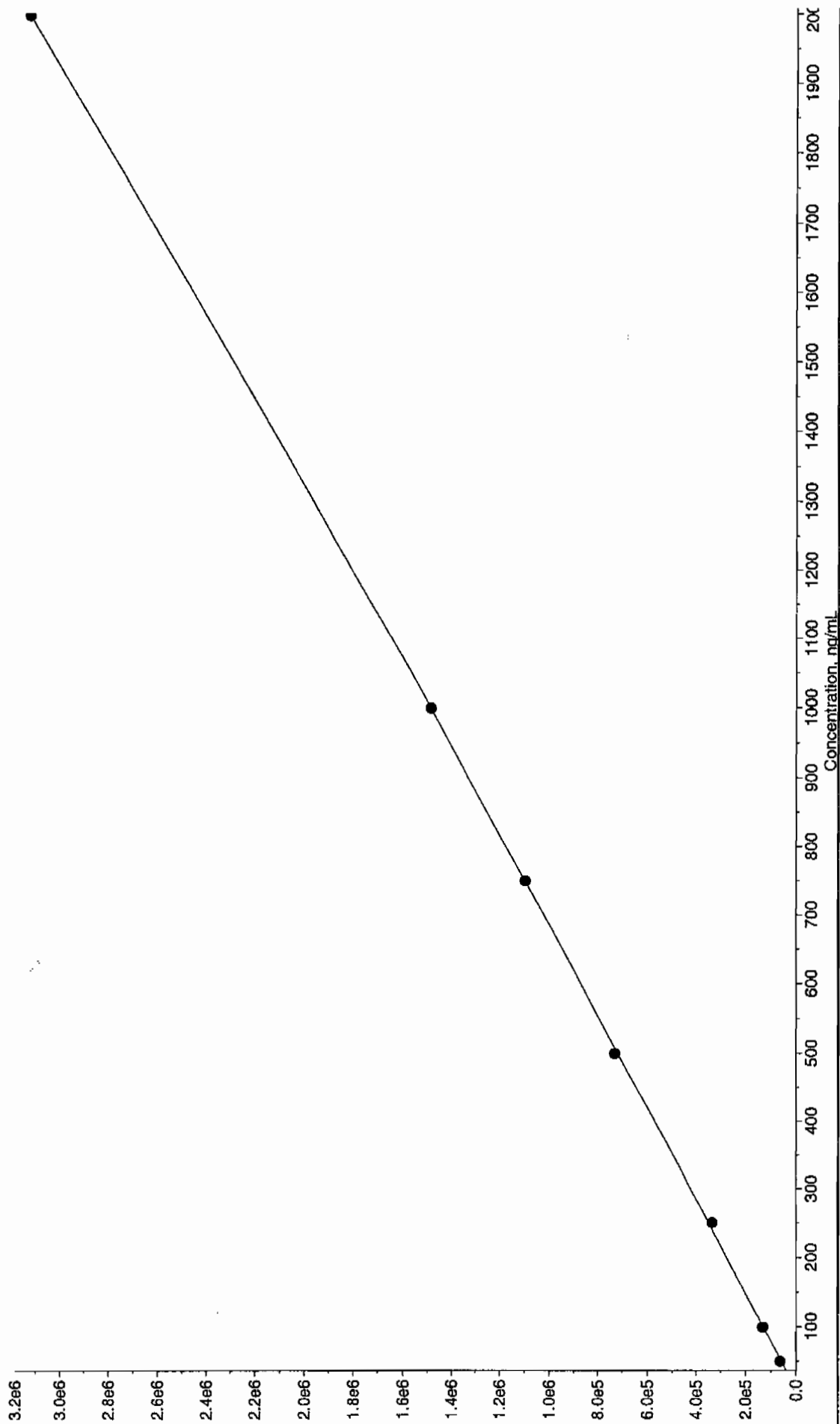
Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-5.04e+003			
a1	1.86e+003			
a2	0.0157			
Correlation coefficient 0.9992				
Use Area				

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

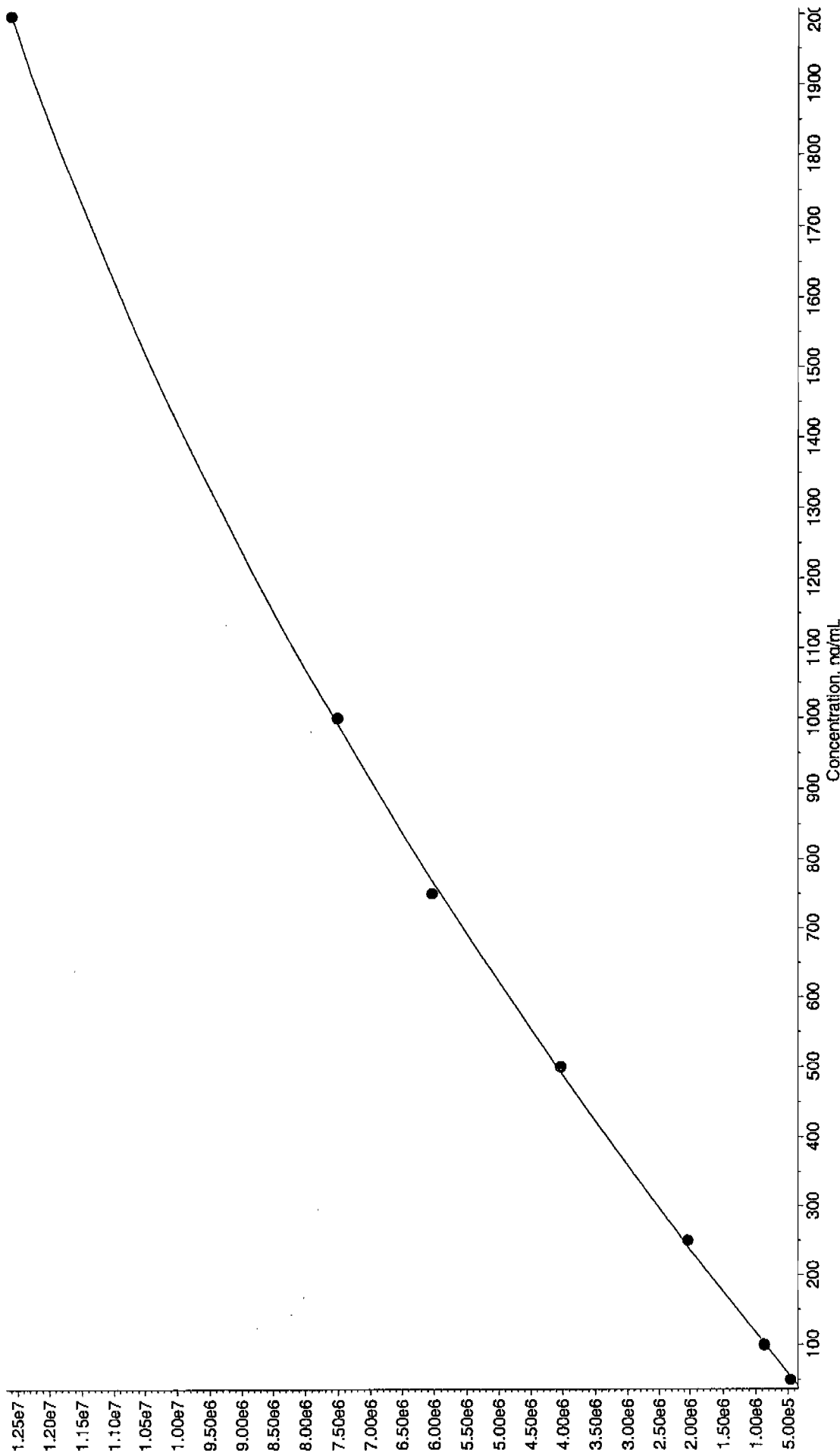
Fit	Quadratic	Weighting	None	Iterate No
a0	1.23e+005			
a1	1.79e+004			
a2	-2.71			
Correlation coefficient 0.9999				
Use Area				

030510.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0686 x^2 + 1.43e+003 x + -1.32e+004$ ($r = 1.0000$)



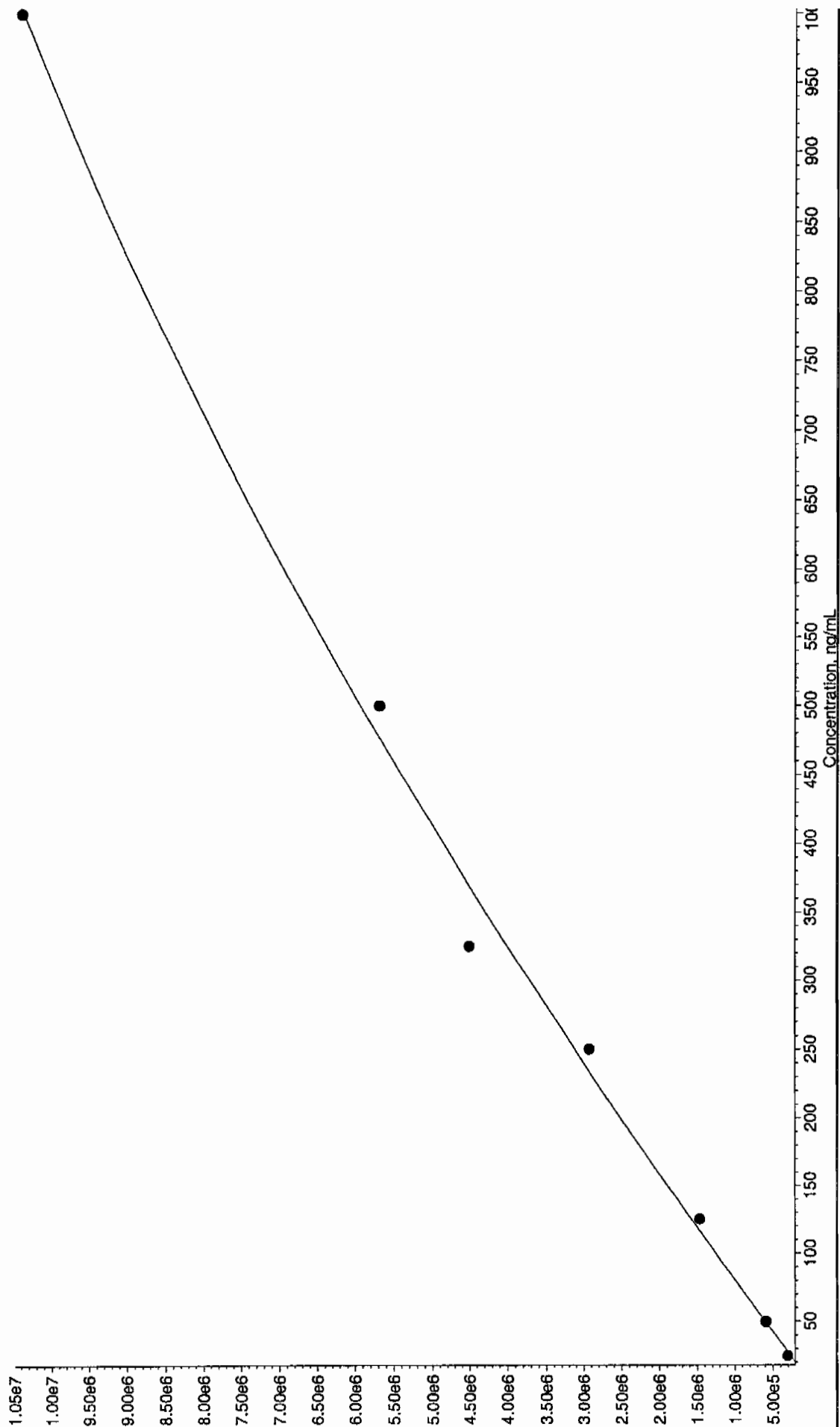
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030510.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.27 x^2 + 8.84e+003 x + -1.86e+004$ ($r = 0.9999$)



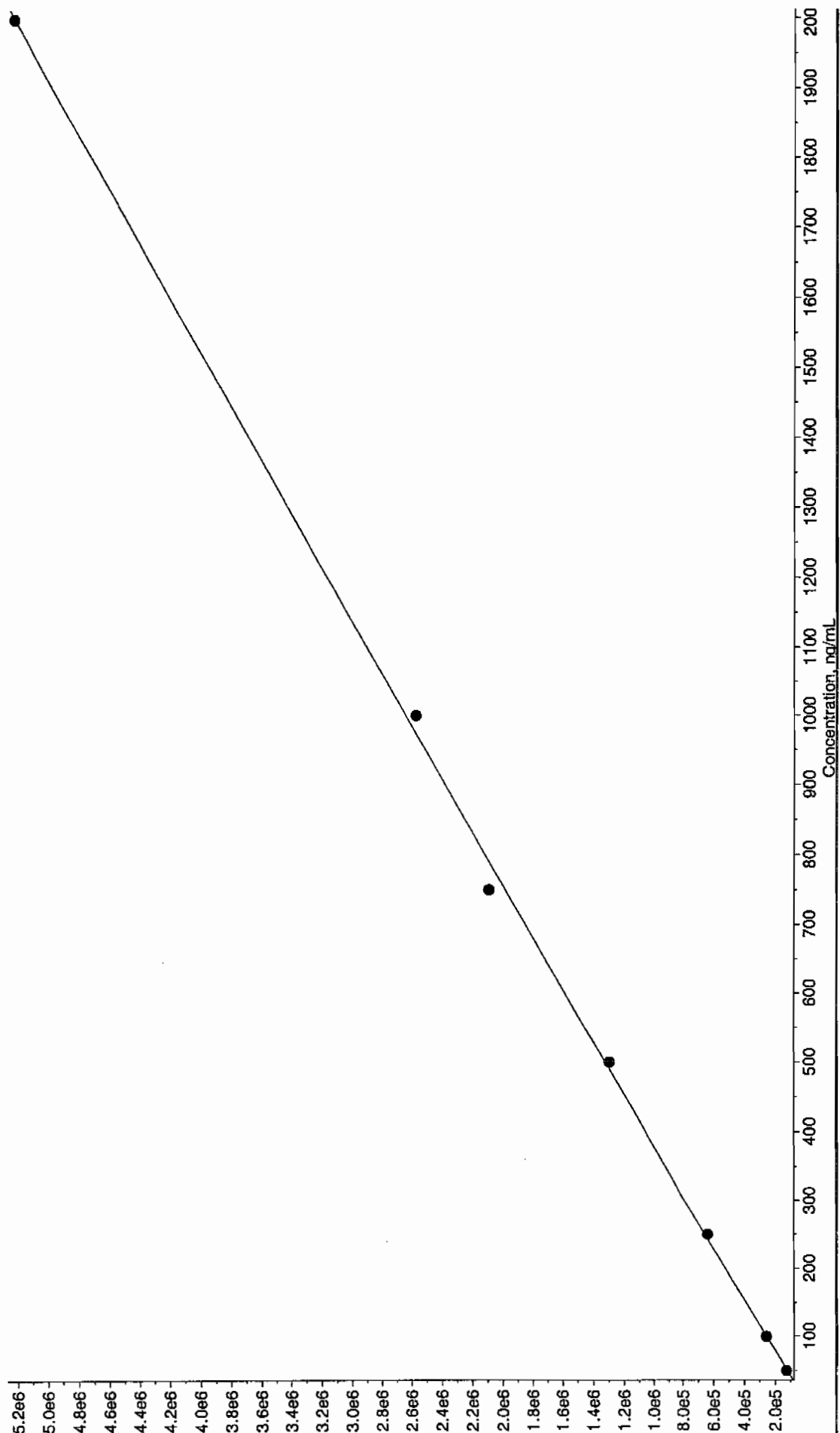
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030510.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -3.11 \times 10^{-4} x^2 + 1.35 \times 10^{-4} x + -6.68 \times 10^{-4}$ ($r = 0.9976$)



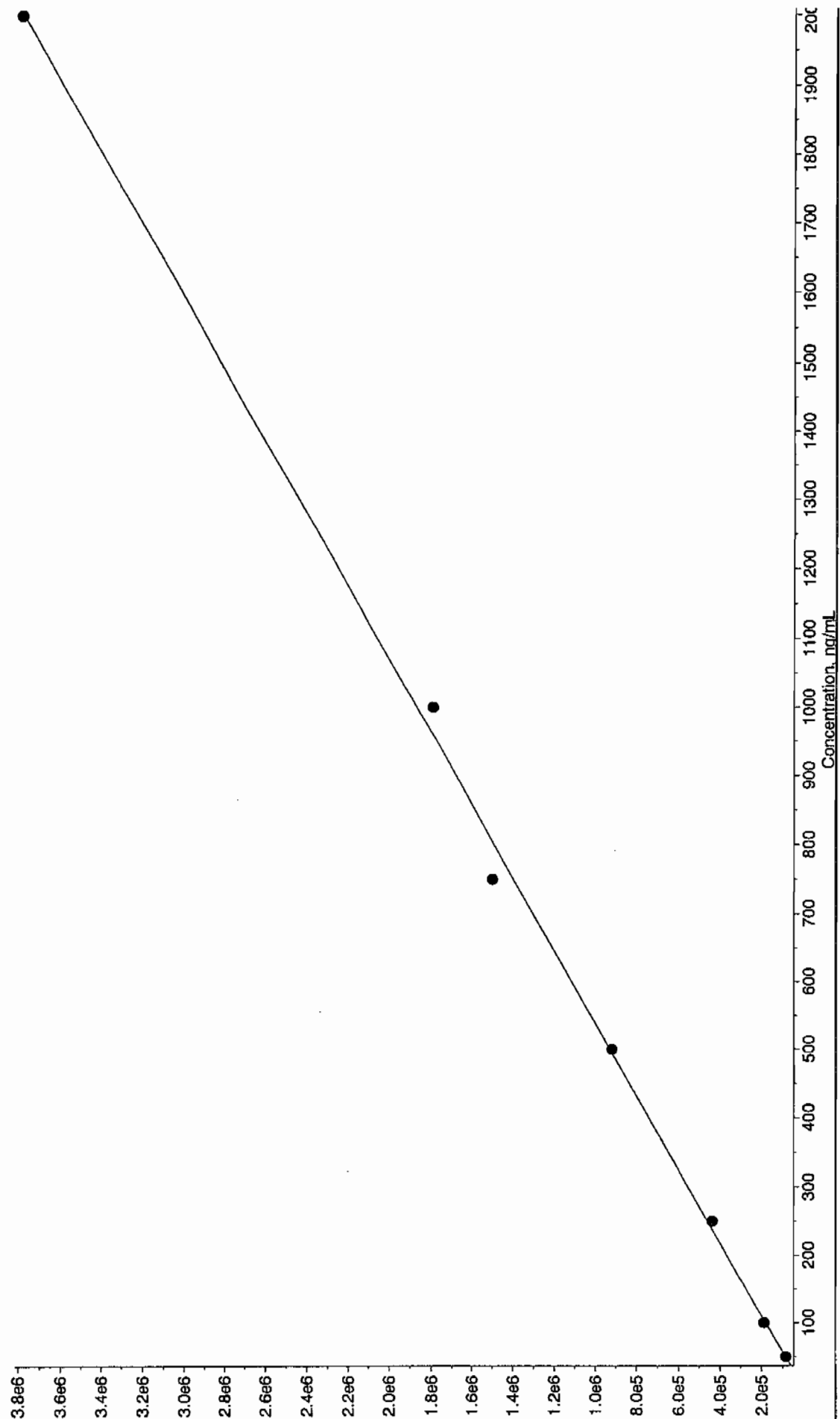
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030510.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0366 x^2 + 2.69e+003 x + -1.32e+004$ ($r = 0.9996$)



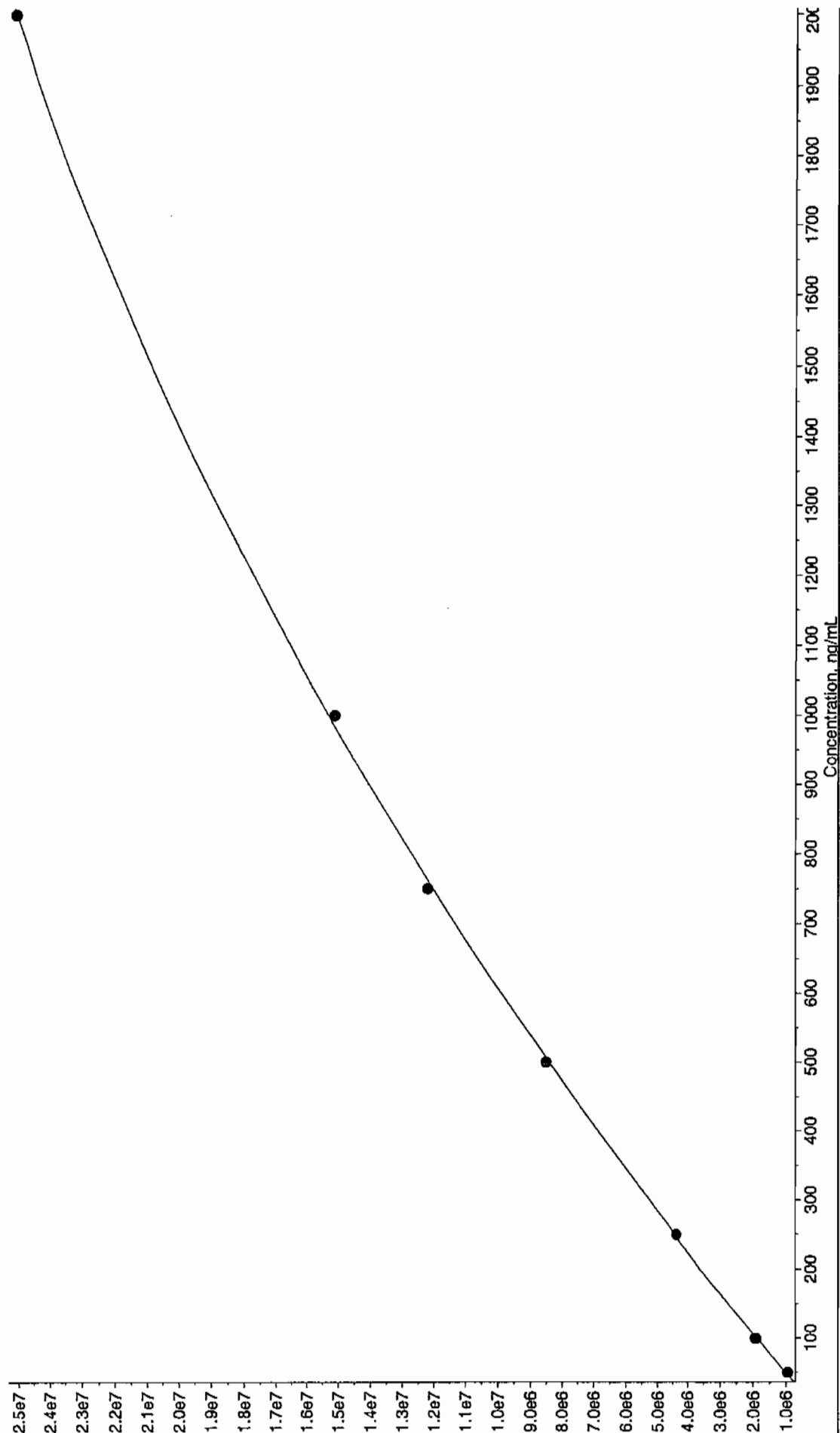
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030510.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = 0.0157 x^2 + 1.86e+003 x + -5.04e+003$ ($r = 0.9992$)



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

030510.rdb (iris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -2.71 x^2 + 1.79e+004 x + 1.23e+005$ ($r = 0.9999$)



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03050011.wiff

Analysis Date: 05-MAR-10 19:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	484	97	
2,6-Diamino-4-nitrotoluene	500	507	101	
3,4-Dinitrotoluene	250	230	92	
3,5-Dinitroaniline	500	502	100	
TATB	500	503	101	
tris(o-cresyl) phosphate	500	506	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 70-130%

Other Target Analytes 80-120%

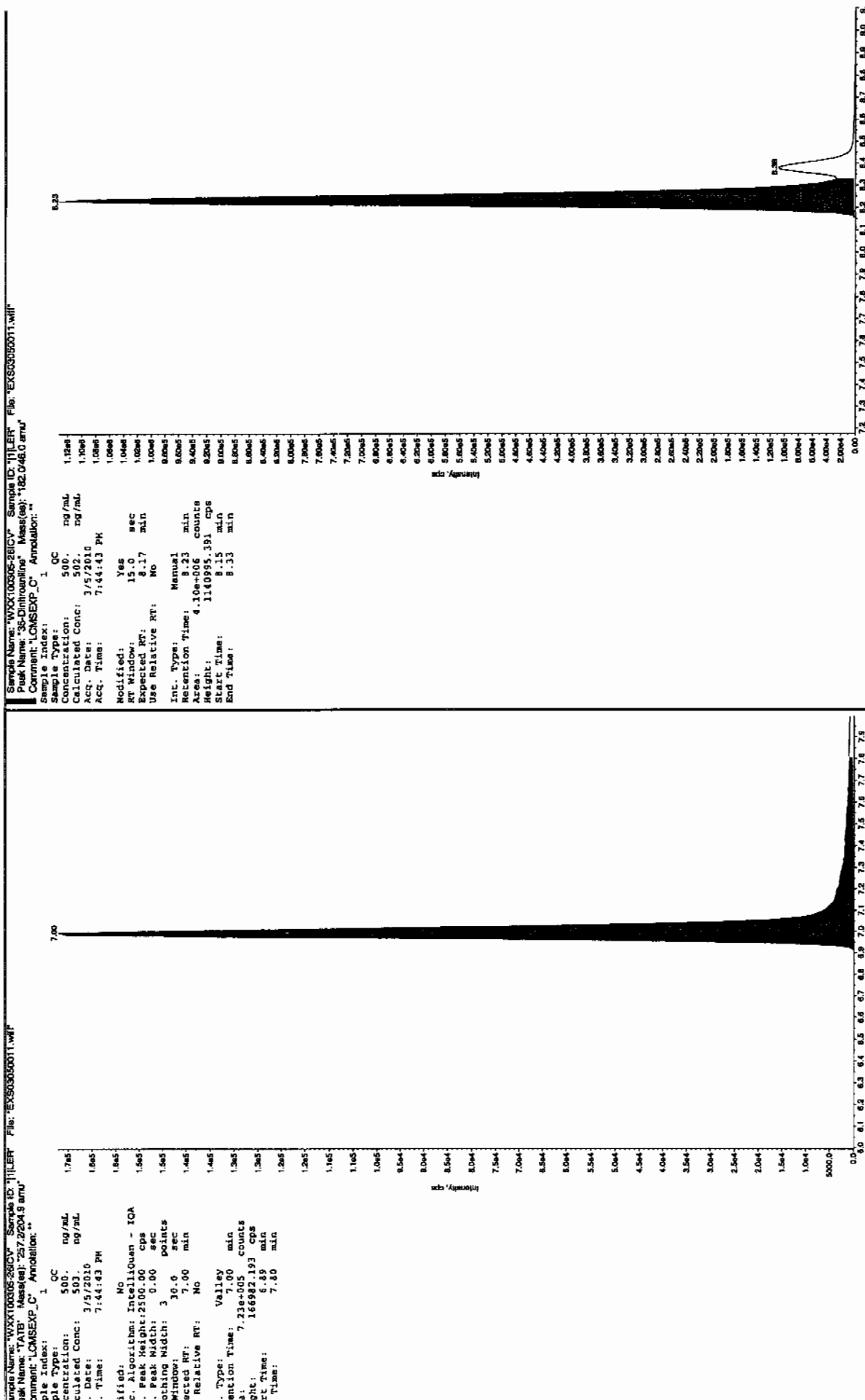
Column used to flag Recovery outside of Limits

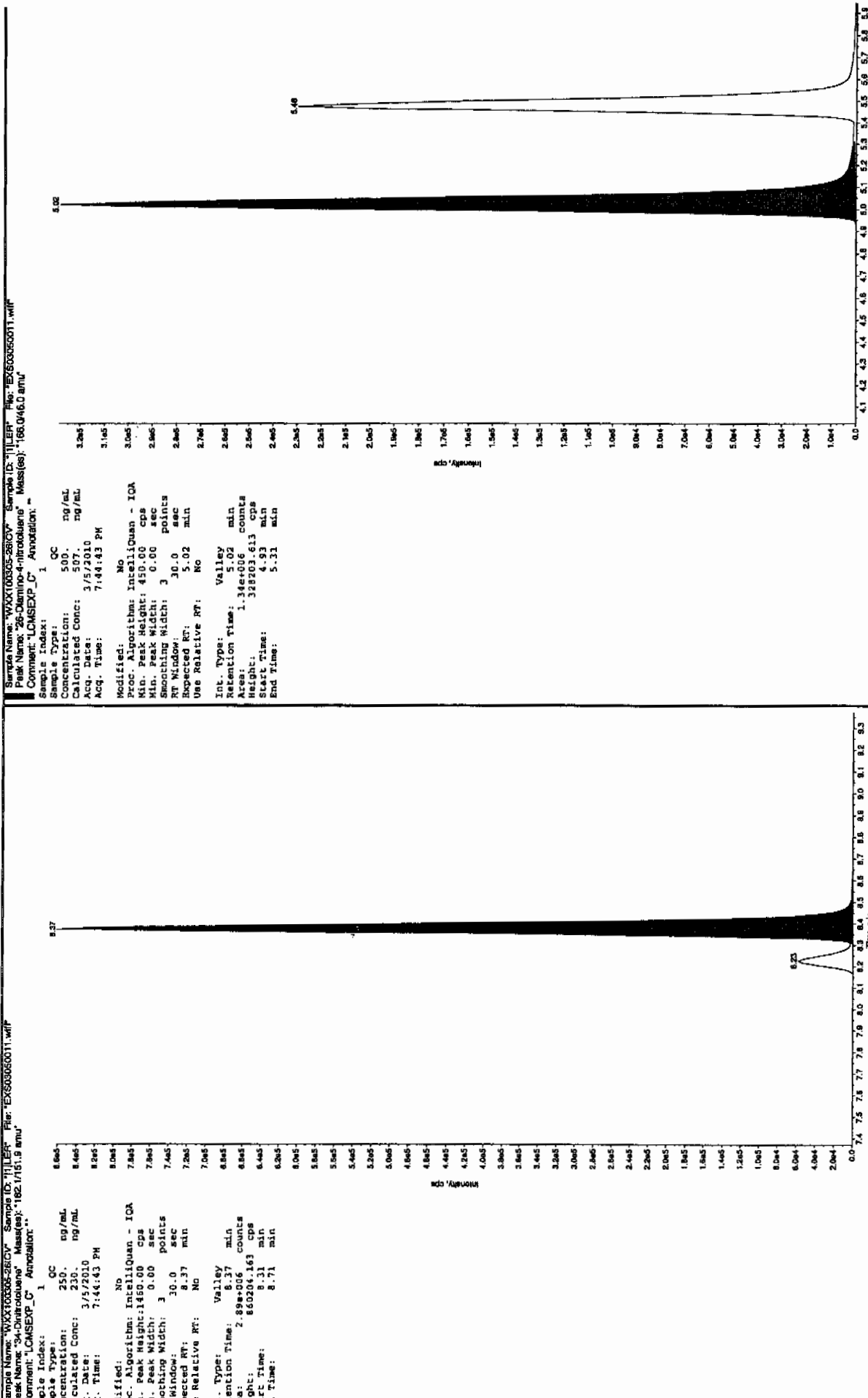
* Value outside of Recovery Limits



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after Jan 31/91





EL SOP GL-OA-E-056, Method 8321A-Modified LCMSEXP#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314012a

Analysis Date: 14-MAR-10 20:23

LCMSMS ID: 203

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	40	43.094	108	
p-Nitrotoluene	40	37.564	94	
1,3,5-Trinitrobenzene	40	45.353	113	
1,3-Dinitrobenzene-d4	500	469.423	94	
2,4,6-Trinitrotoluene	40	36.944	92	
2,4-Dinitrotoluene	40	44.992	112	
2,6-Dinitrotoluene	40	39.604	99	
2,6-Dinitrotoluene-d3	500	507.766	102	
2-Amino-4,6-dinitrotoluene	40	35.068	88	
3,4-Dinitrotoluene	20	17.939	90	
4-Amino-2,6-dinitrotoluene	40	40.541	101	
HMX	40	45.554	114	
Nitrobenzene	40	47.411	119	
PETN	40	41.119	103	
RDX	40	37.369	93	
Tetryl	40	45.238	113	
m-Dinitrobenzene	40	34.726	87	
m-Nitrotoluene	40	52.416	131	*

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
EL Laboratories, LLC / Analyst: Michael A. Penny

atset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

ame: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314012a

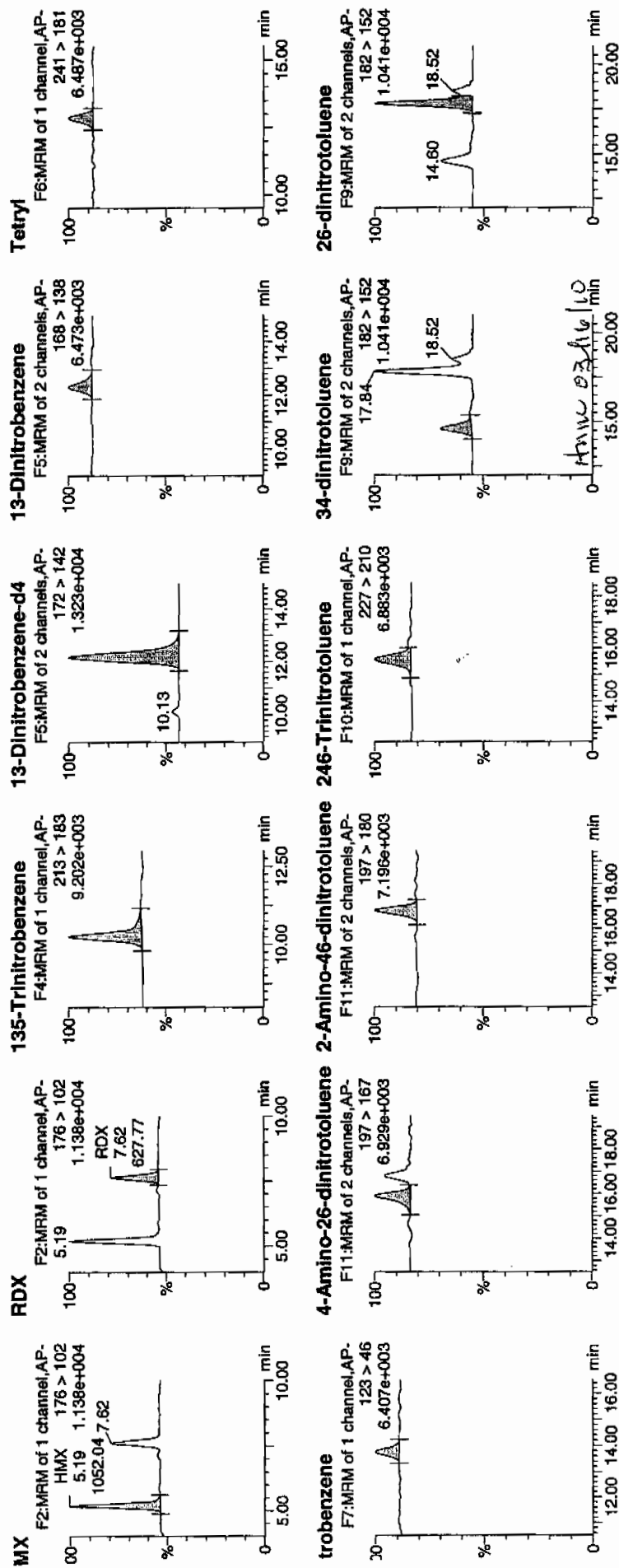
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ime: 20:23:15

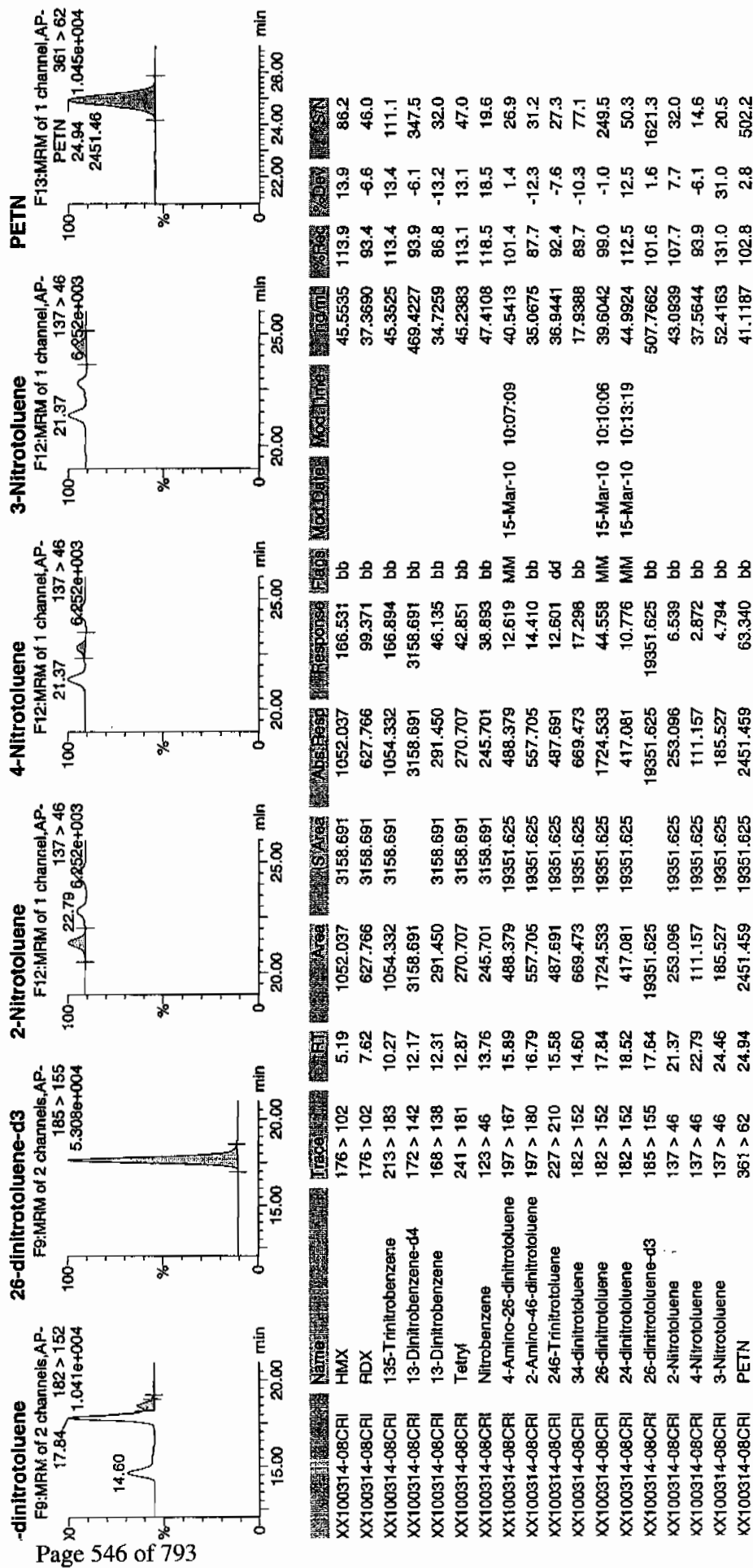
je: WXX100314-08CRI

ial: 1:1,C

WXX
3/15/10



Dataset: C:\MASSL\YNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/14/10
 Time of Injection 2023
 Standard Number WXX100314-08CRI
 Data File EXP0314012a

HMX	113.9
RDX	93.4
135-TNB	113.4
13-DNB	86.8
Tetryl	113.1
Nitrobenzene	118.5
4A-26-DNT	101.4
2A-46-DNT	87.7
246-TNT	92.4
34-DNT(surr)	89.7
26-DNT	99.0
24-DNT	112.5
2-NT	107.7
4-NT	93.9
3-NT	131.0
PETN	102.8

*not
3/15/10*

Total 1657.2

Average 103.6

WXX-0314012a

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): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0314023a

Analysis Date: 15-MAR-10 01:47

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	571.208	95	
o-Nitrotoluene	600	576.388	96	
p-Nitrotoluene	600	572.801	95	
1,3,5-Trinitrobenzene	600	562.341	94	
1,3-Dinitrobenzene-d4	500	504.22	101	
2,4,6-Trinitrotoluene	600	632.951	105	
2,4-Dinitrotoluene	600	641.749	107	
2,6-Dinitrotoluene	600	629.098	105	
2,6-Dinitrotoluene-d3	500	542.493	108	
2-Amino-4,6-dinitrotoluene	600	610.437	102	
3,4-Dinitrotoluene	300	302.639	101	
4-Amino-2,6-dinitrotoluene	600	562.733	94	
HMX	600	609.823	102	
Nitrobenzene	600	631.179	105	
PETN	600	603.16	101	
RDX	600	680.646	113	
Tetryl	600	623.98	104	
m-Dinitrobenzene	600	569.786	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

Quantify Sample Report
iEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Sample Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0314023a

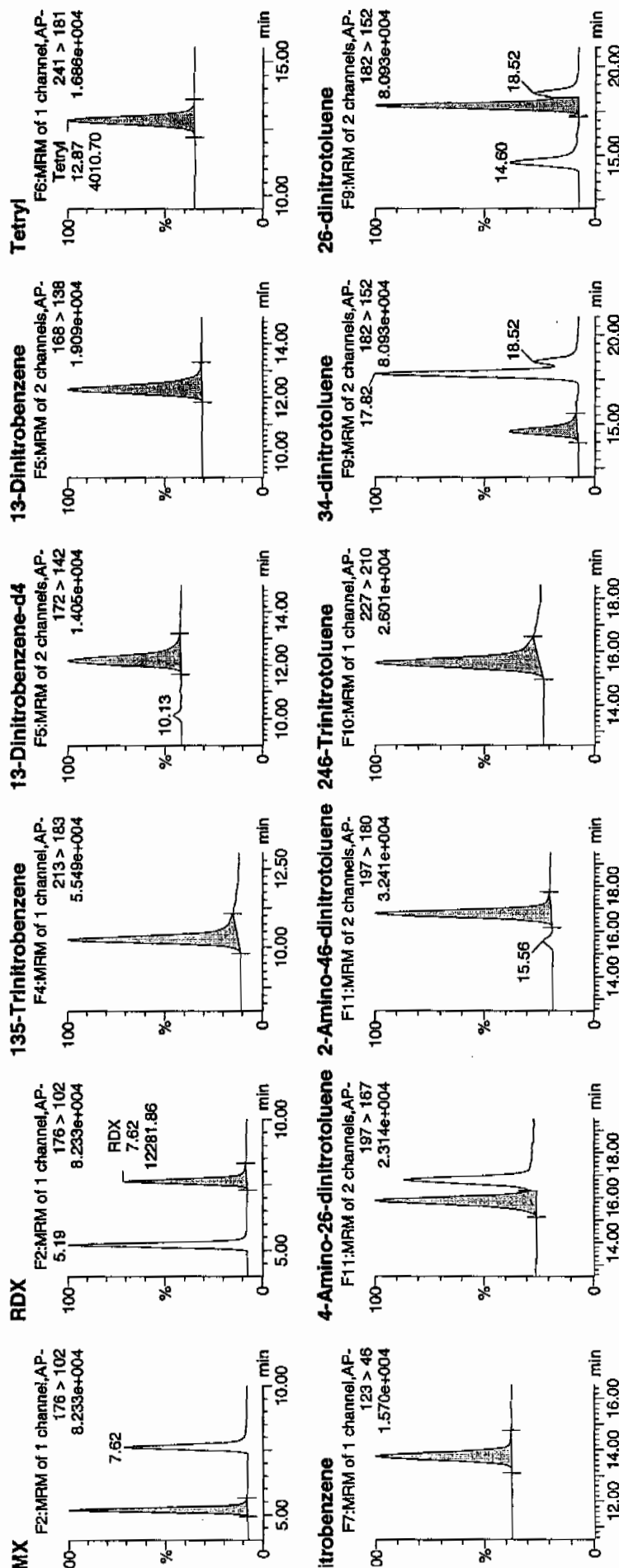
Date: 15-Mar-2010

Time: 01:47:26

File: WXX100314-07CCV

Label: 1:1,B

3/15/10



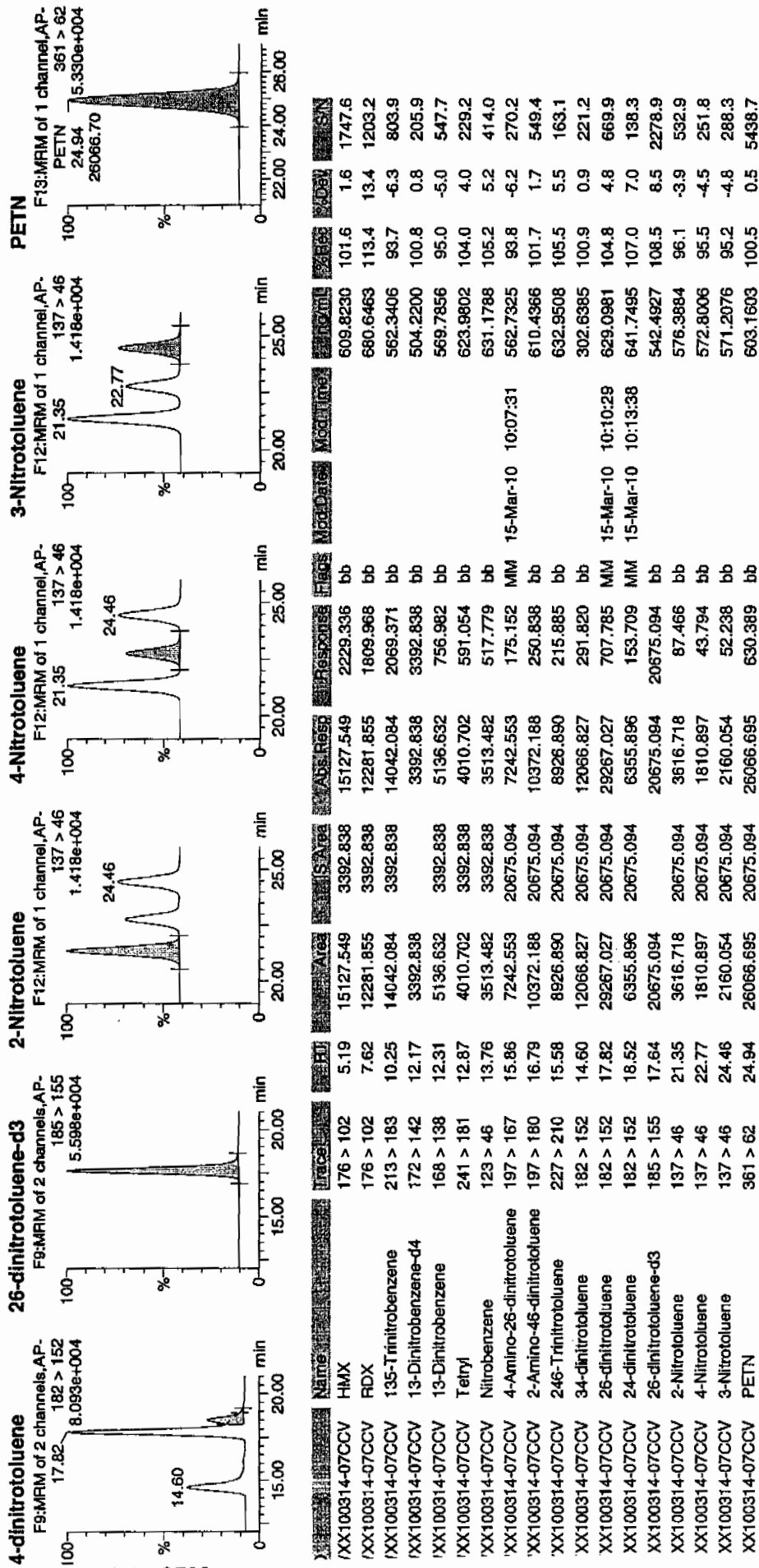
Handwritten signature

Quantify Sample Report

IEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 46 of 77

Dataset: C:\MASSLYNX\New_Exp\PRO1031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/15/10
 Time of Injection: 0147
 Standard Number: WXX100314-07CCV
 Data File: EXP0314023a

HMX	101.6
RDX	113.4
135-TNB	93.7
13-DNB	95.0
Tetryl	104.0
Nitrobenzene	105.2
4A-26-DNT	93.8
2A-46-DNT	101.7
246-TNT	105.5
34-DNT(surr)	100.9
26-DNT	104.8
24-DNT	107.0
2-NT	96.1
4-NT	95.5
3-NT	95.2
PETN	100.5

*WAP
3/15/10*

Total 1613.9

Average 100.9

ANAL 03/16/10

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): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0314025a

Analysis Date: 15-MAR-10 02:46

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	50.069	125	
1,3-Dinitrobenzene-d4	500	524.134	105	
2,4,6-Trinitrotoluene	40	38.531	96	
2,4-Dinitrotoluene	40	40.483	101	
2,6-Dinitrotoluene	40	40.862	102	
2,6-Dinitrotoluene-d3	500	567.612	114	
2-Amino-4,6-dinitrotoluene	40	37.43	94	
3,4-Dinitrotoluene	20	16.97	85	
4-Amino-2,6-dinitrotoluene	40	43.966	110	
HMX	40	44.421	111	
Nitrobenzene	40	36.612	92	
PETN	40	36.431	91	
RDX	40	40.127	100	
Tetryl	40	45.808	115	
m-Dinitrobenzene	40	44.086	110	
m-Nitrotoluene	40	49.167	123	
o-Nitrotoluene	40	38.212	96	
p-Nitrotoluene	40	48.579	121	

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

Identify Sample Report
iEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0314025a

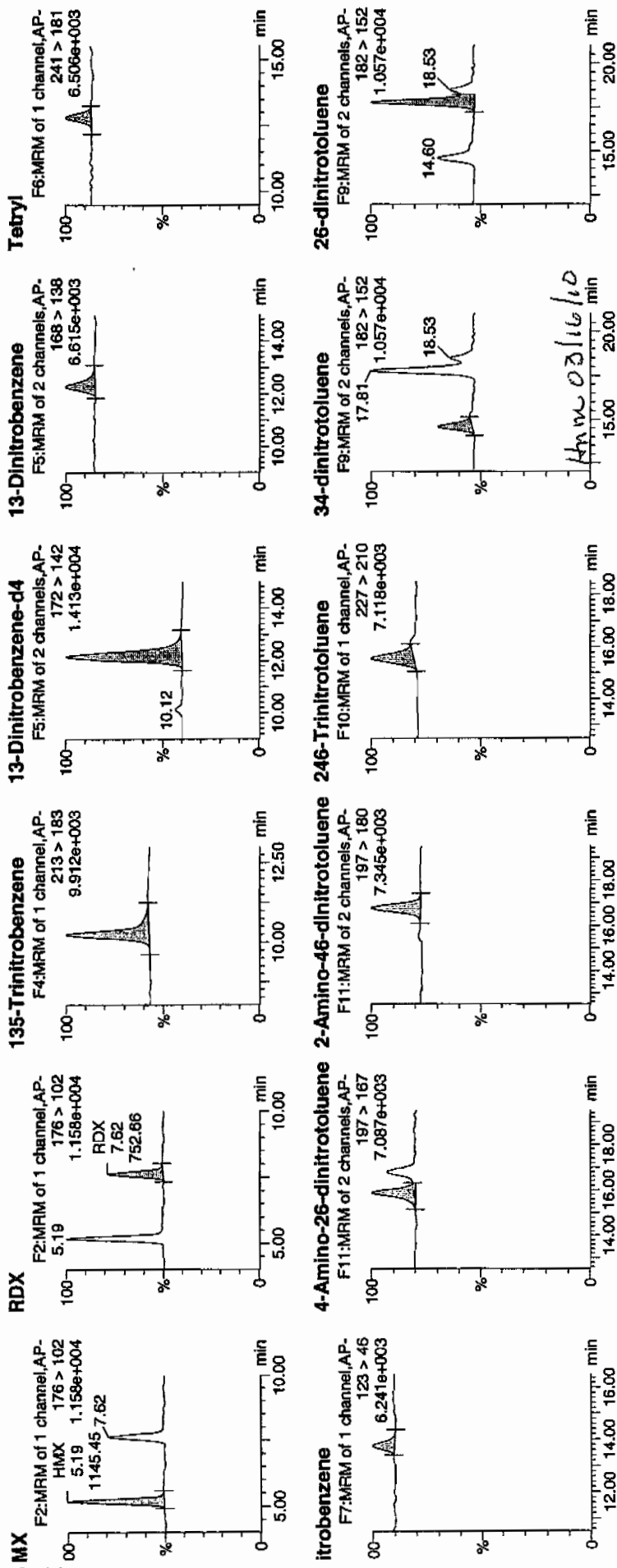
ate: 15-Mar-2010

ime: 02:46:30

j: WXX100314-08CRI

lai: 1:1,C

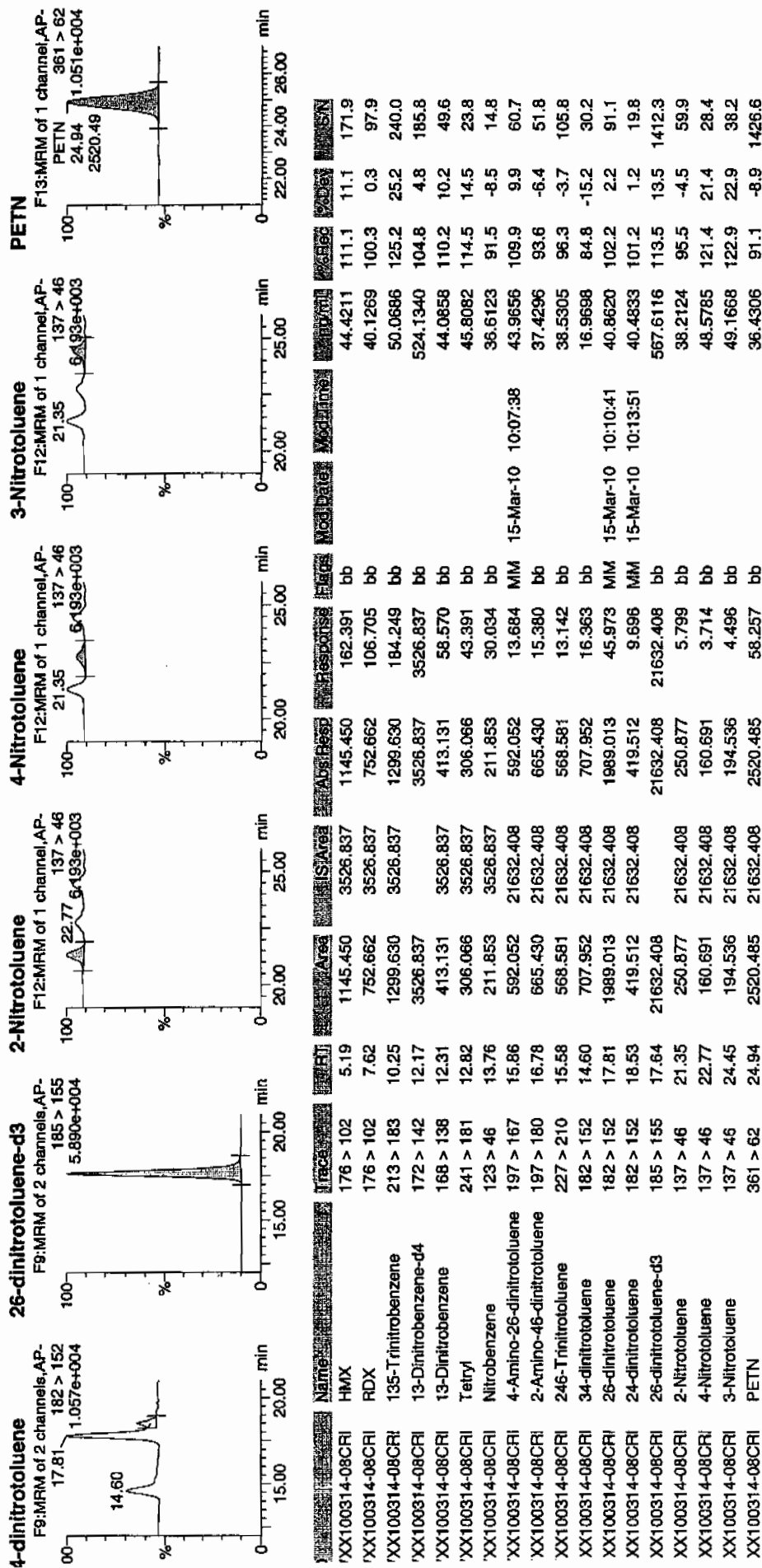
WFF
3/15/10



Printed: Mon Mar 15 10:16:43 2010, Page 50 of 77

Identify Sample Report
iEL Laboratories, LLC / Analyst: Michael A. Penny

atset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/15/10
 Time of Injection 0246
 Standard Number WXX100314-08CRI
 Data File EXP0314025a

HMX	111.1
RDX	100.3
135-TNB	125.2
13-DNB	110.2
Tetryl	114.5
Nitrobenzene	91.5
4A-26-DNT	109.9
2A-46-DNT	93.6
246-TNT	96.3
34-DNT(surr)	84.8
26-DNT	102.2
24-DNT	101.2
2-NT	95.5
4-NT	121.4
3-NT	122.9
PETN	91.1

sum
3/15/10

Total 1671.7

sum 03/16/10

Average 104.5

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): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050013.wiff

Analysis Date: 05-MAR-10 20:16

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	102	102	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	104	104	
TATB	100	108	108	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

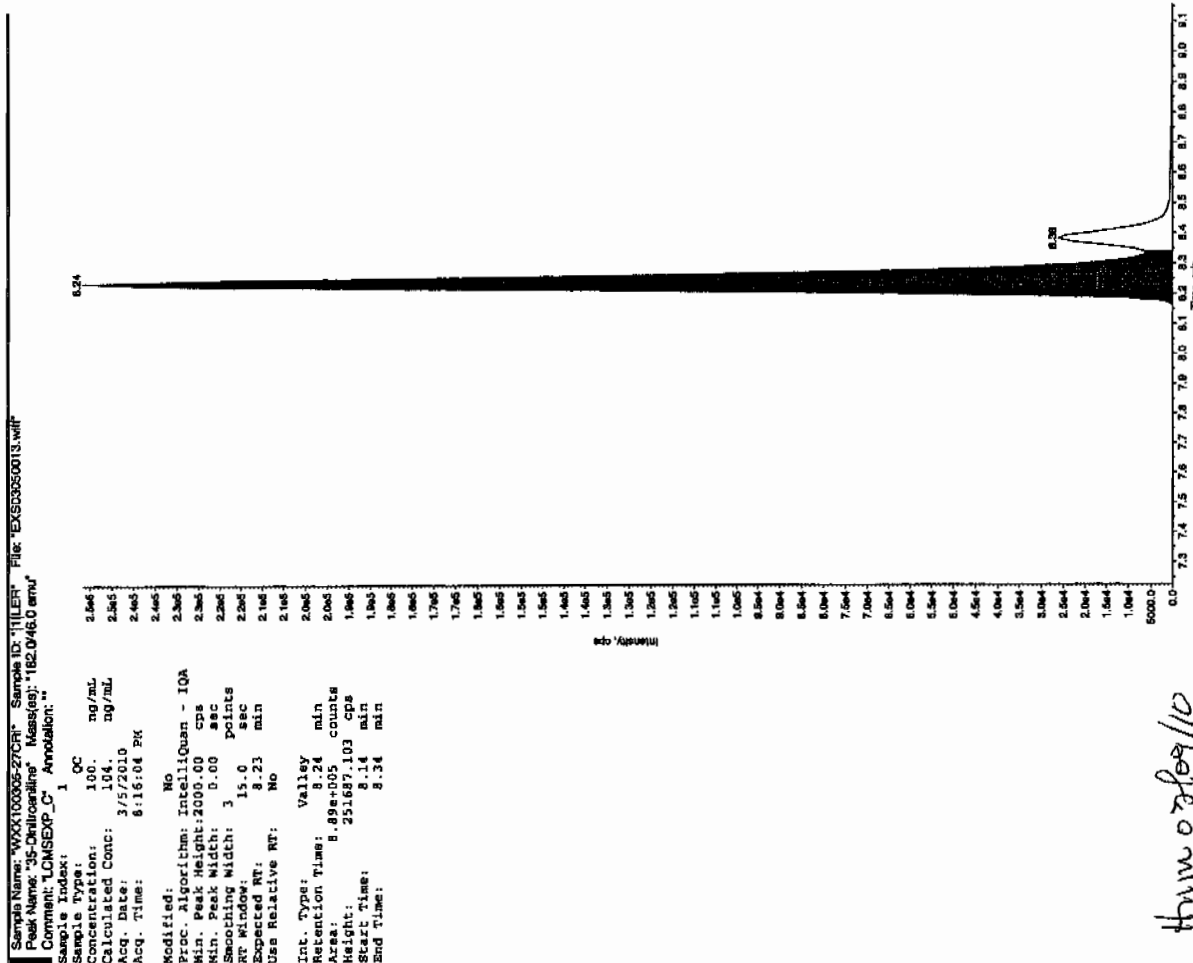
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

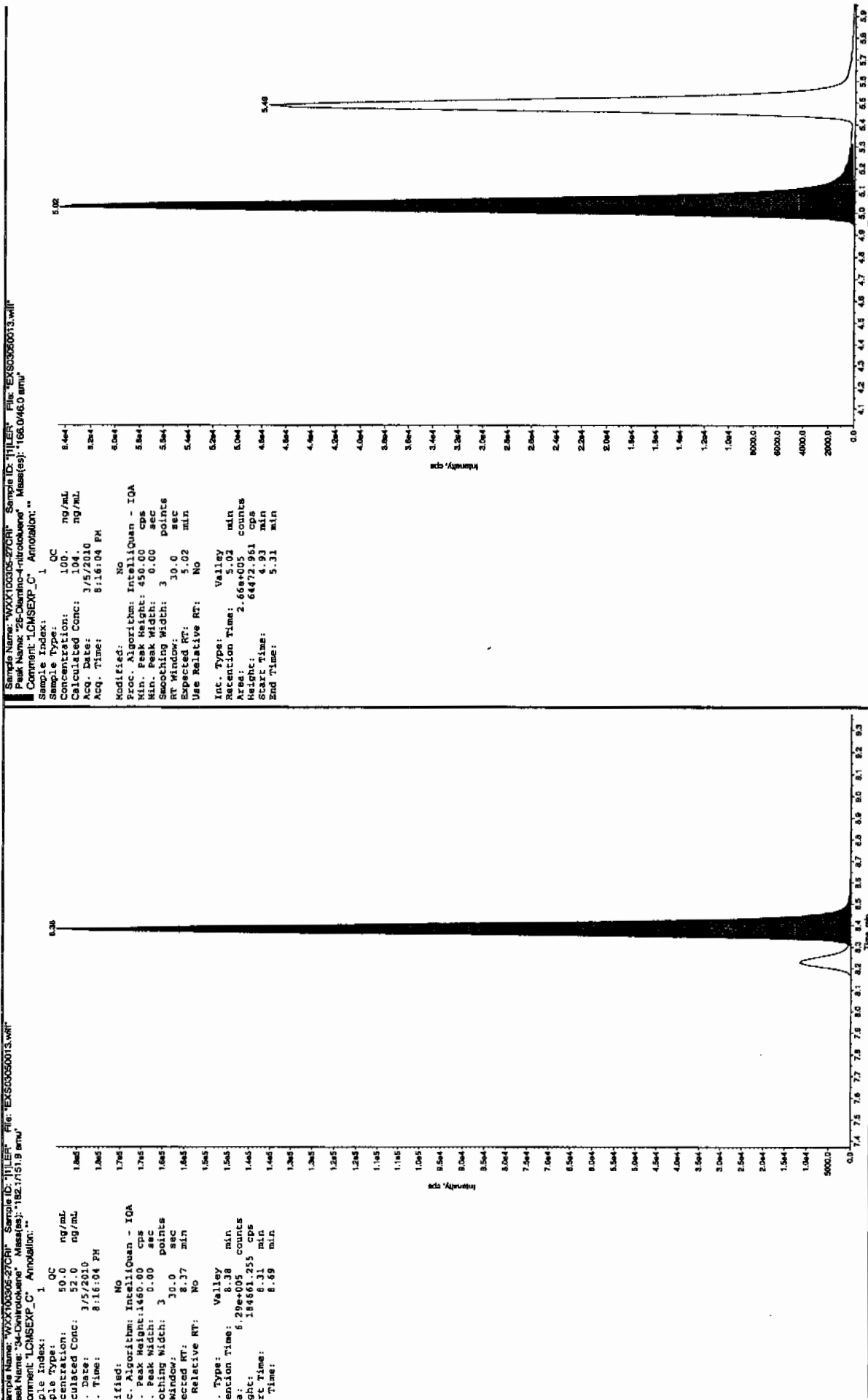
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

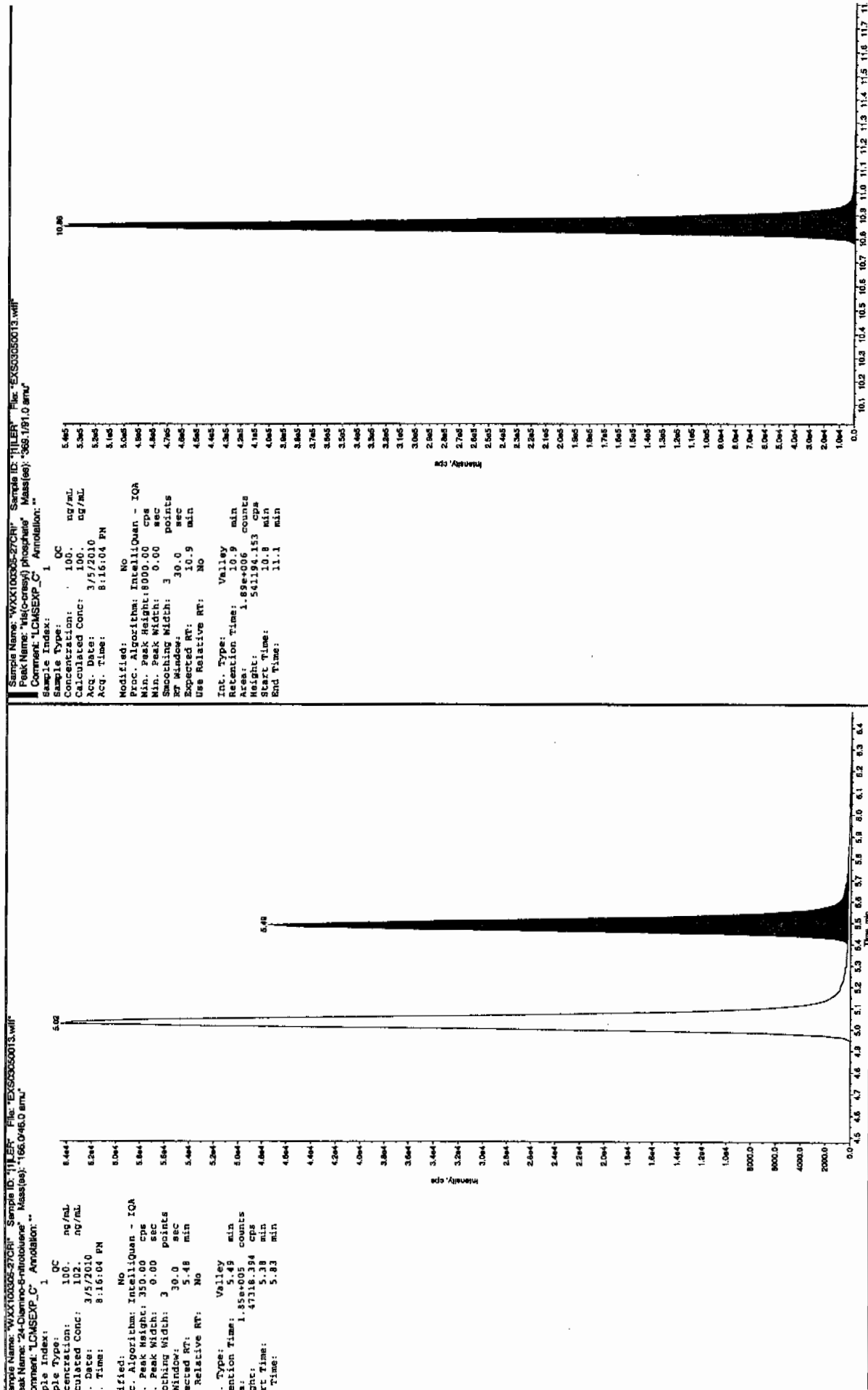
* Value outside of Recovery Limits



thru 0202/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMMS#4



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050024.wiff

Analysis Date: 05-MAR-10 23:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	507	101	
2,6-Diamino-4-nitrotoluene	500	520	104	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	509	102	
TATB	500	506	101	
tris(o-cresyl) phosphate	500	505	101	

Recovery Limits:

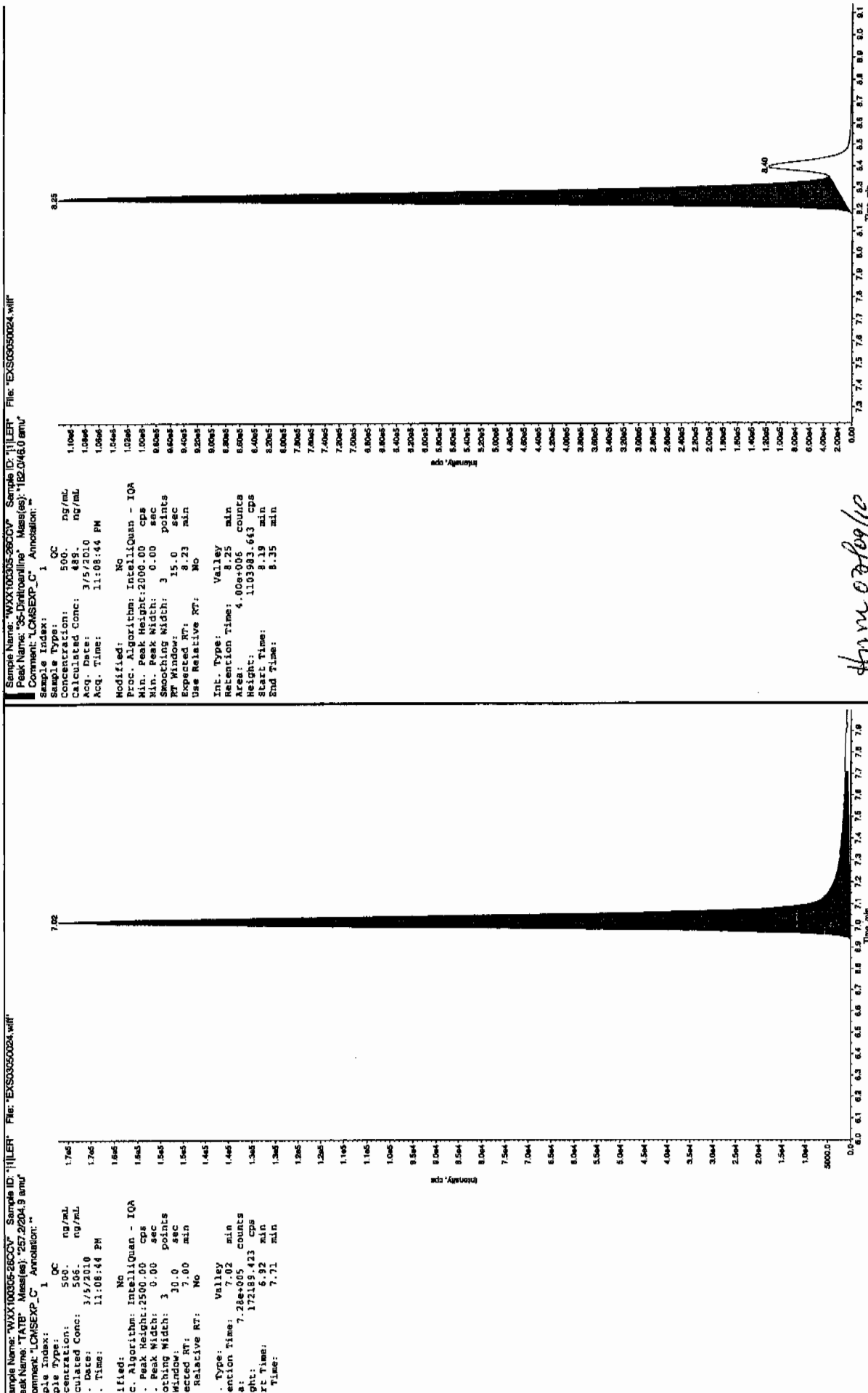
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

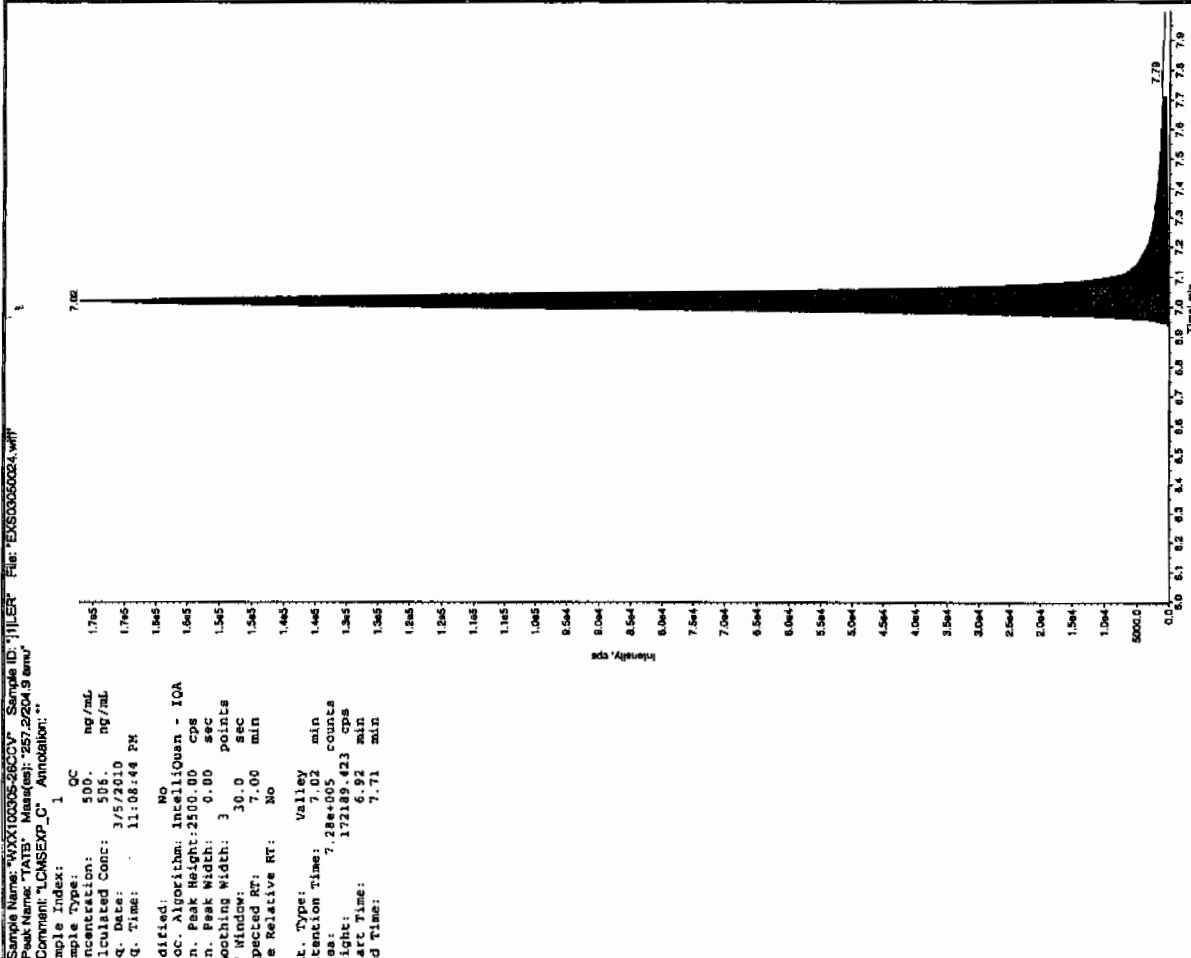
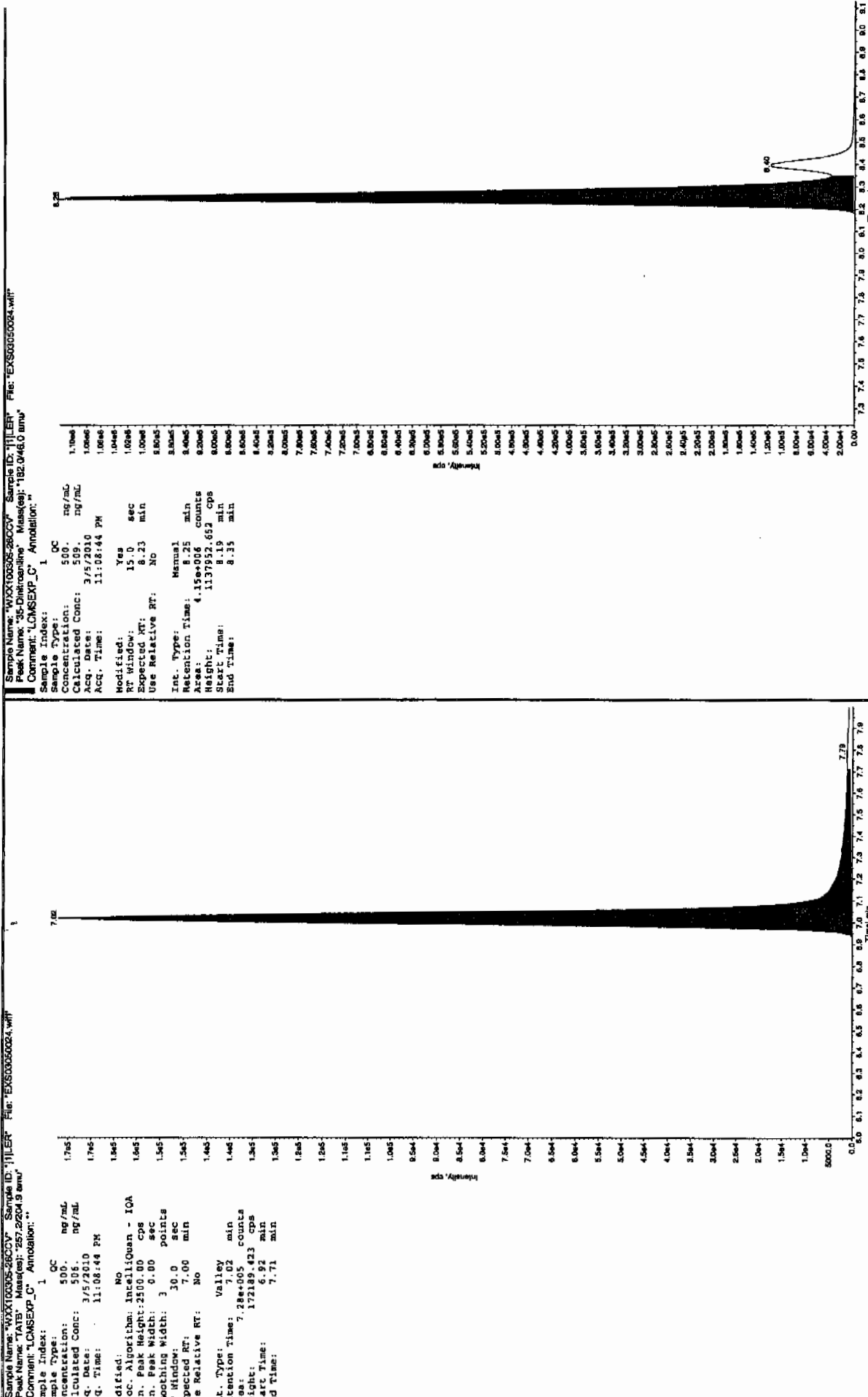
* Value outside of Recovery Limits

Before Jan 31/10

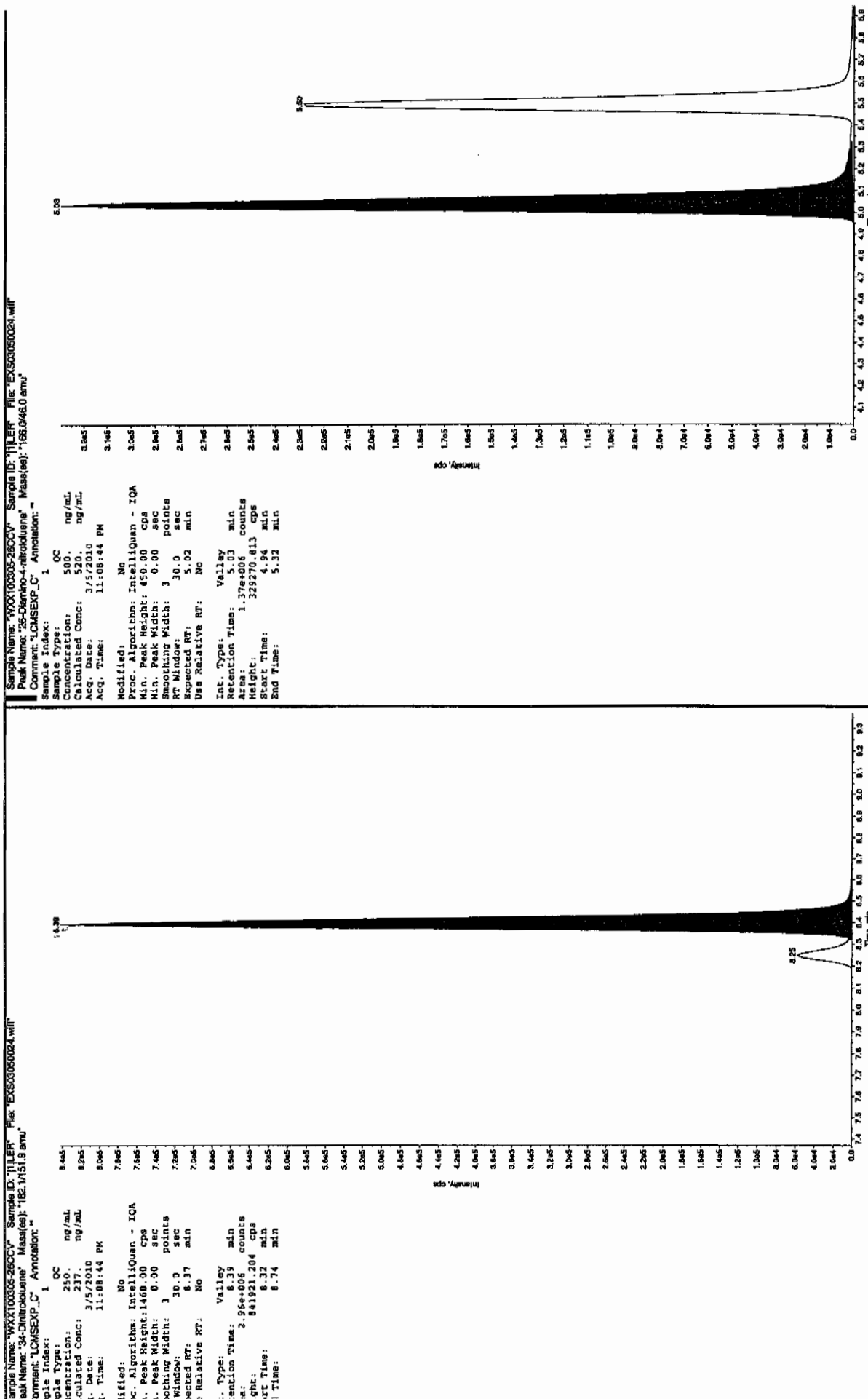


After 03/09/10

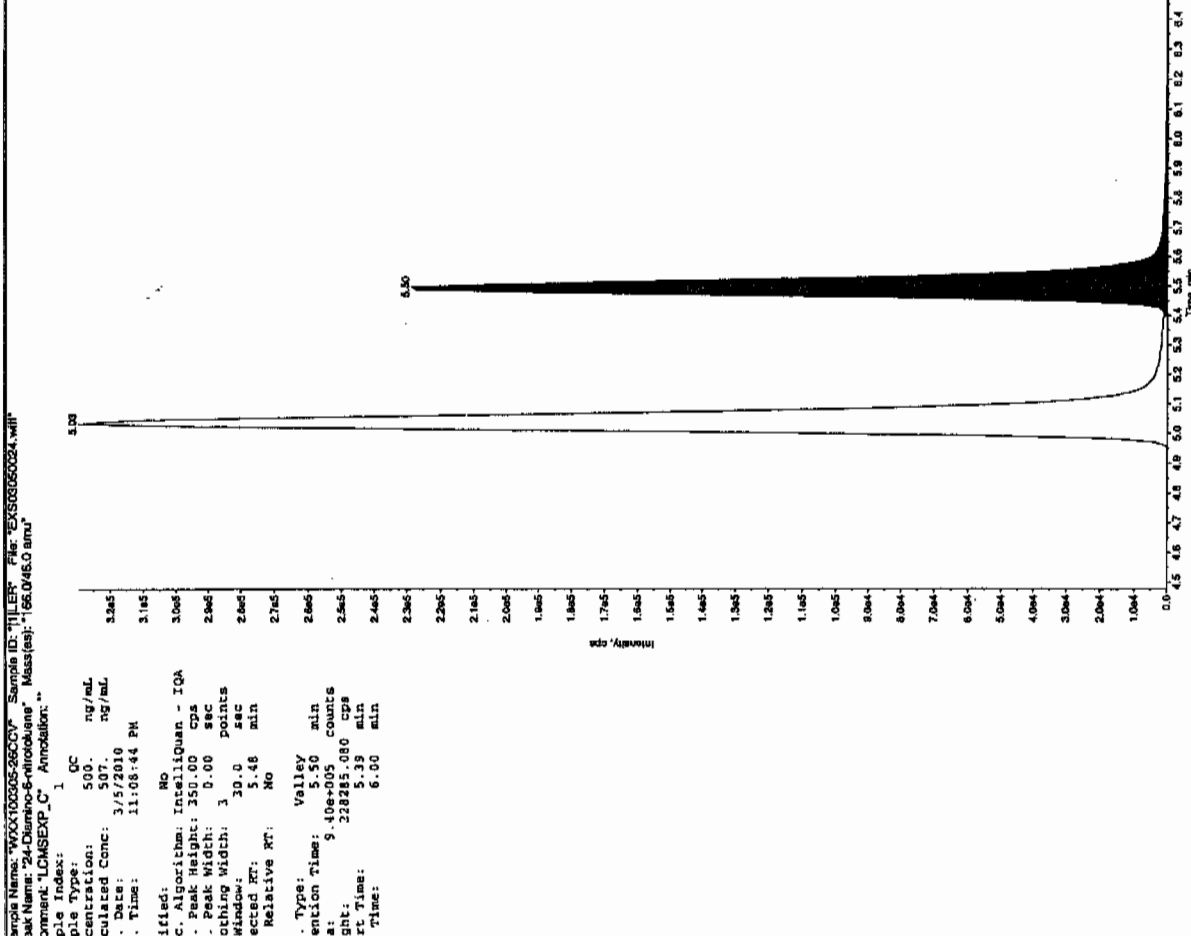
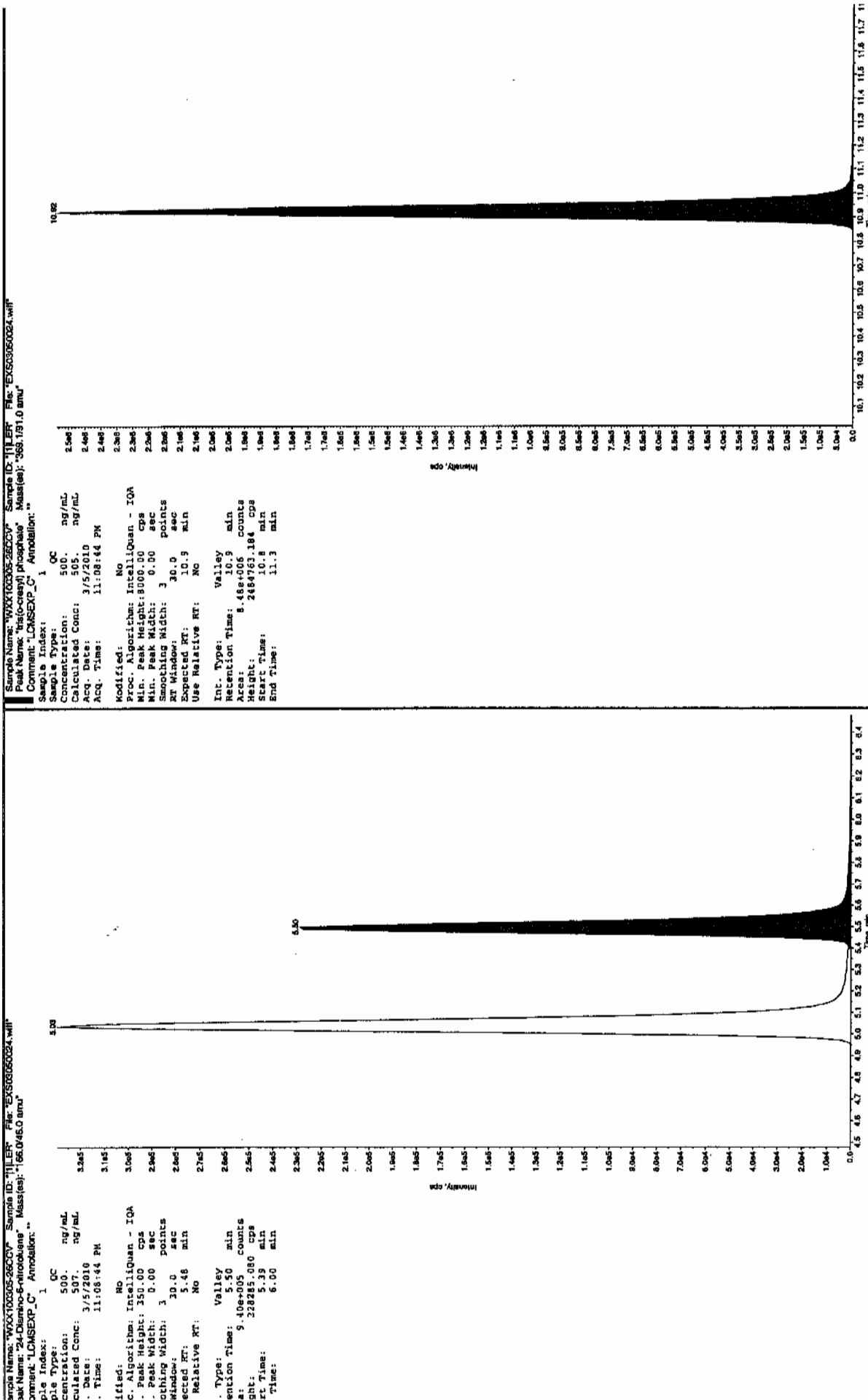
after Jan 3/9/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050026.wiff

Analysis Date: 05-MAR-10 23:40

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
TATB	100	112	112	
tris(o-cresyl) phosphate	100	103	103	
2,4-Diamino-6-nitrotoluene	100	102	102	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	51.8	104	
3,5-Dinitroaniline	100	105	105	

Recovery Limits:

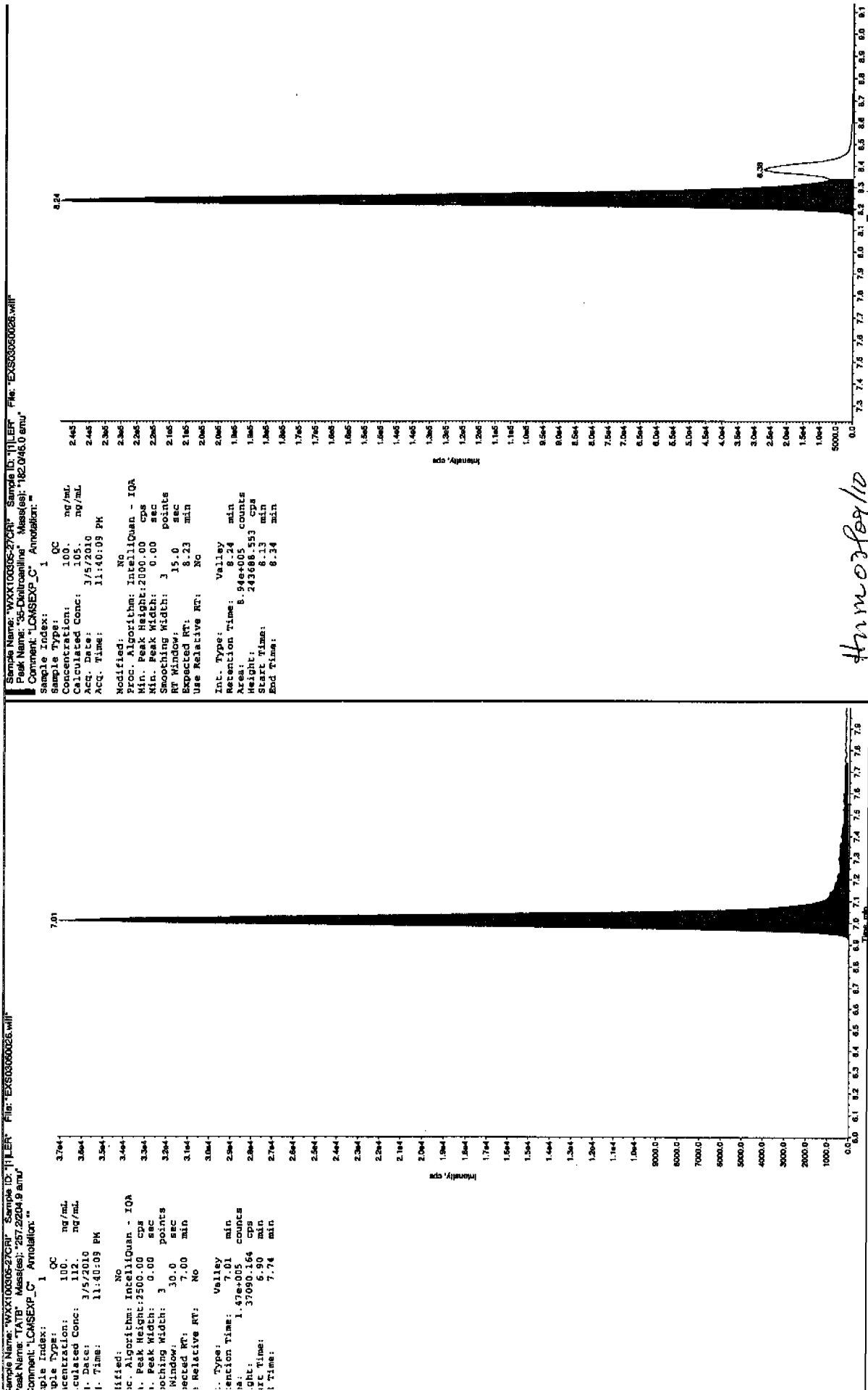
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

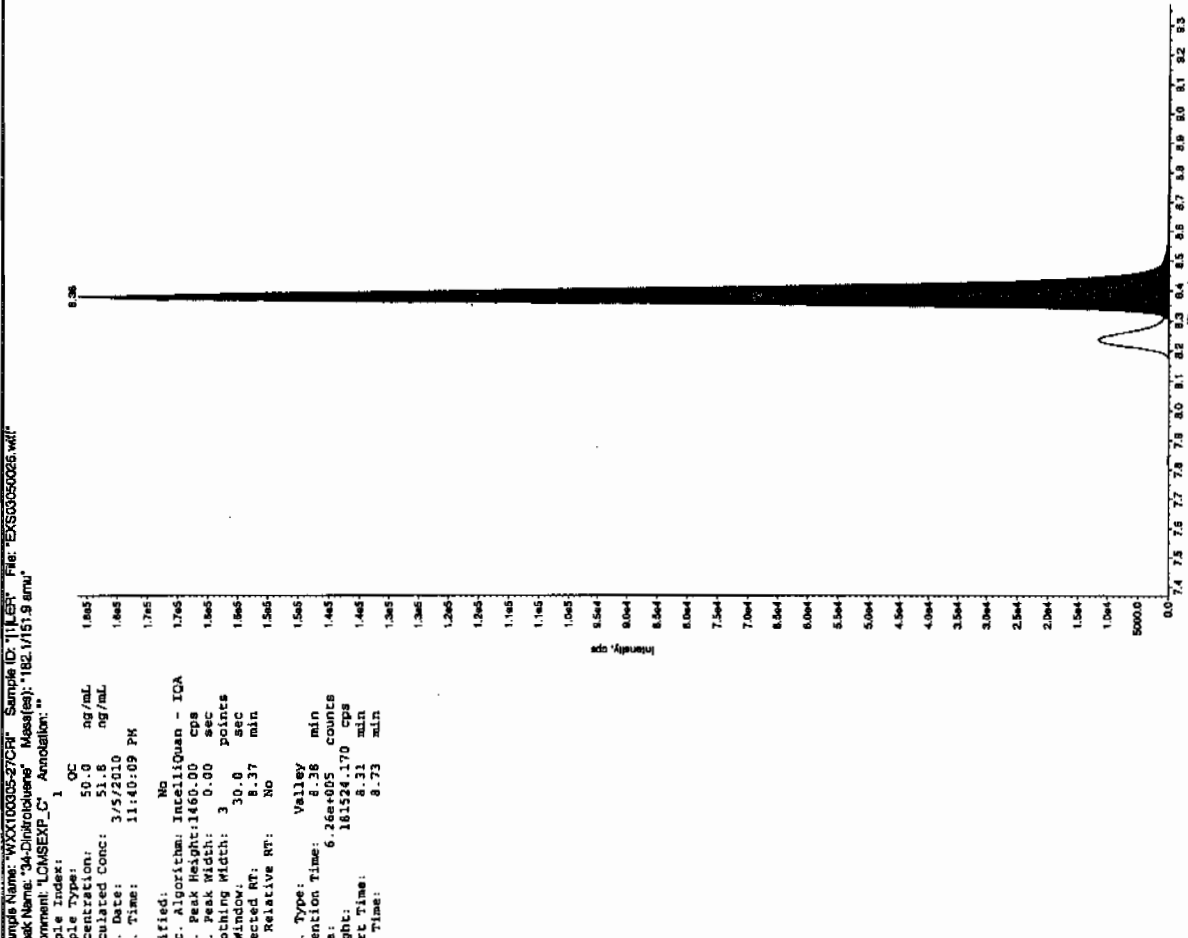
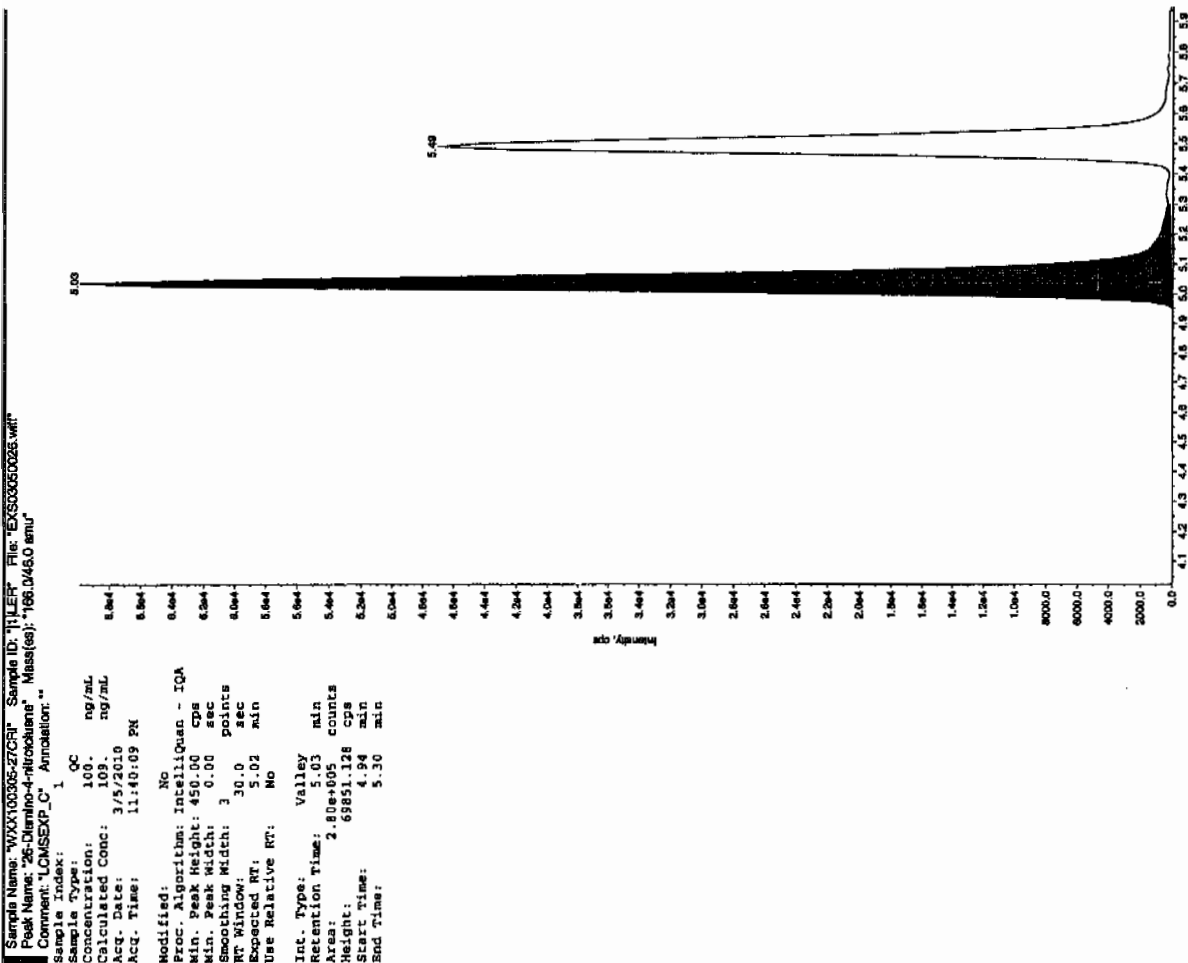
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

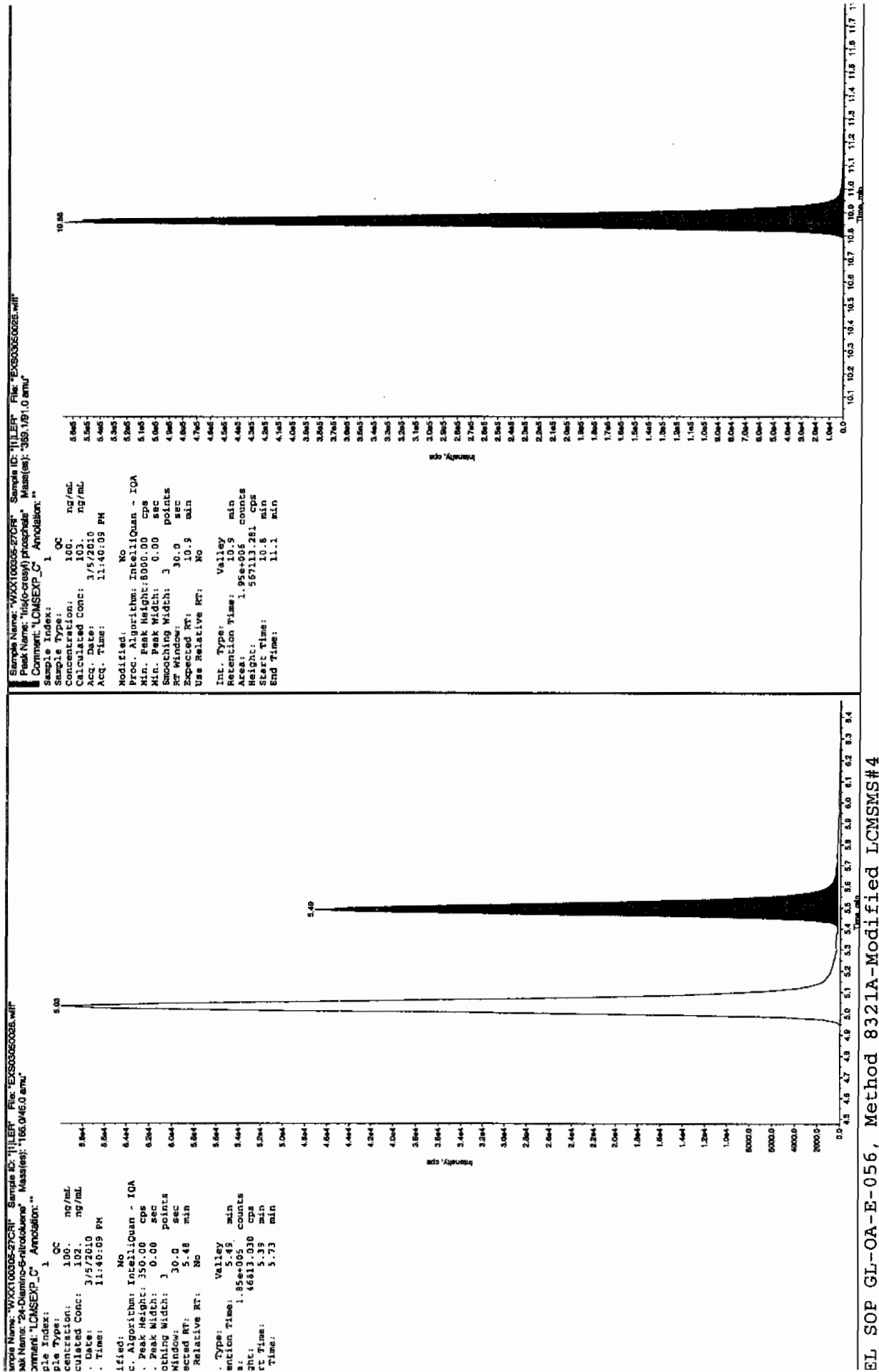
Run 319/10



Run 0309/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050035.wiff

Analysis Date: 06-MAR-10 02:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	509	102	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	246	98	
3,5-Dinitroaniline	500	529	106	
TATB	500	534	107	
tris(o-cresyl) phosphate	500	503	101	

Recovery Limits:

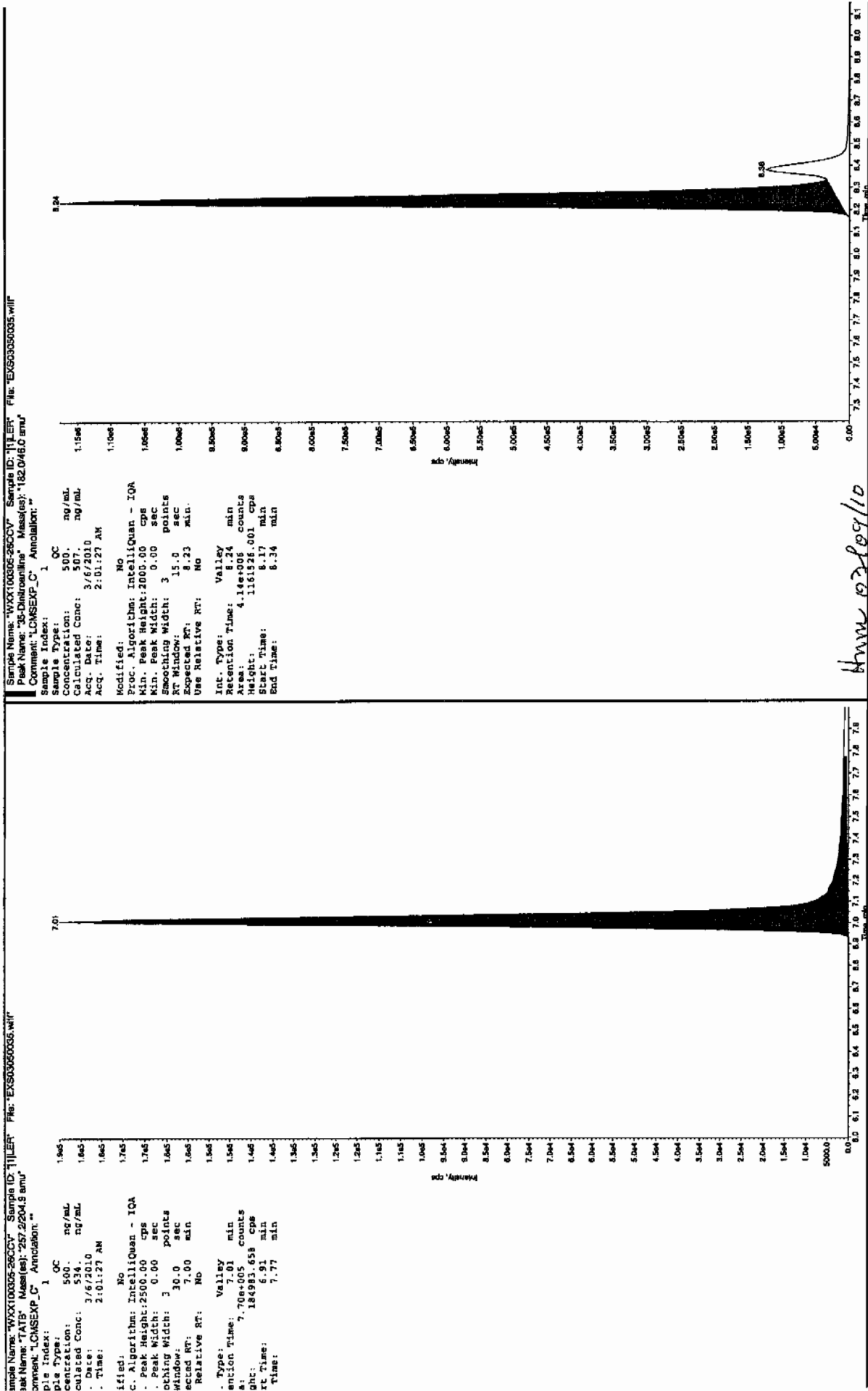
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

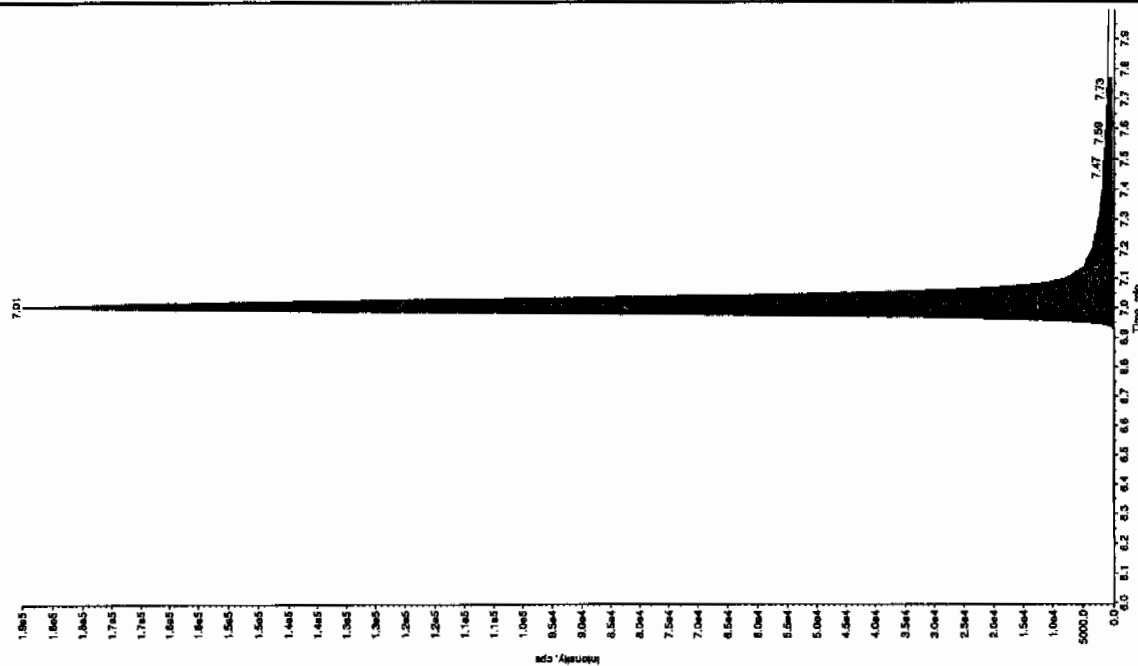
Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

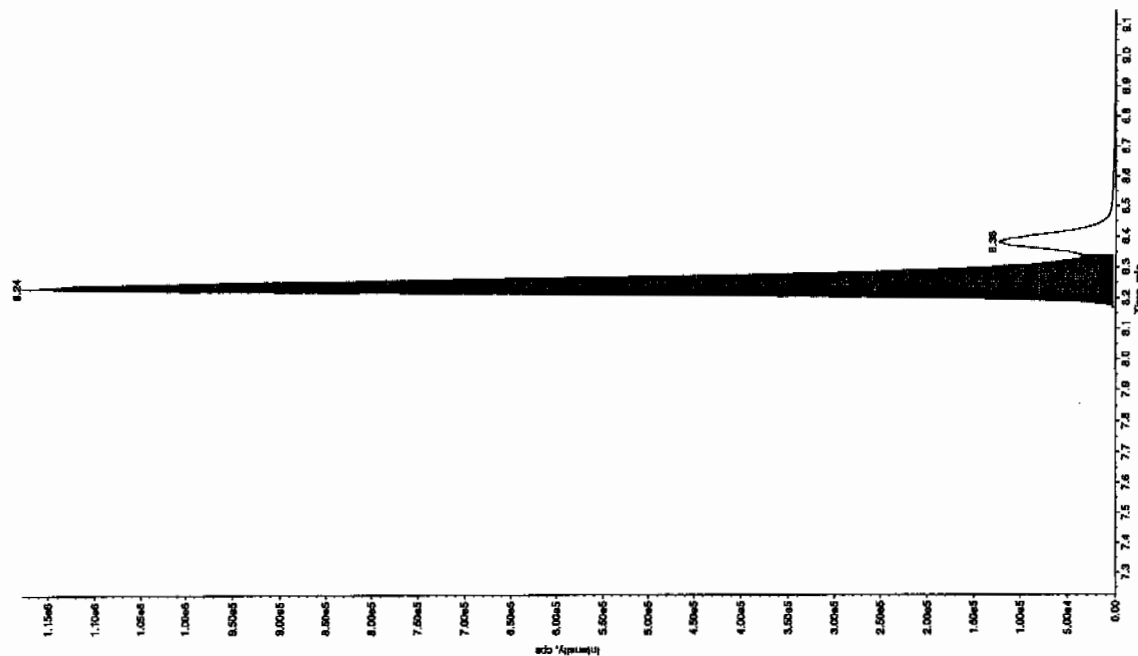
* Value outside of Recovery Limits

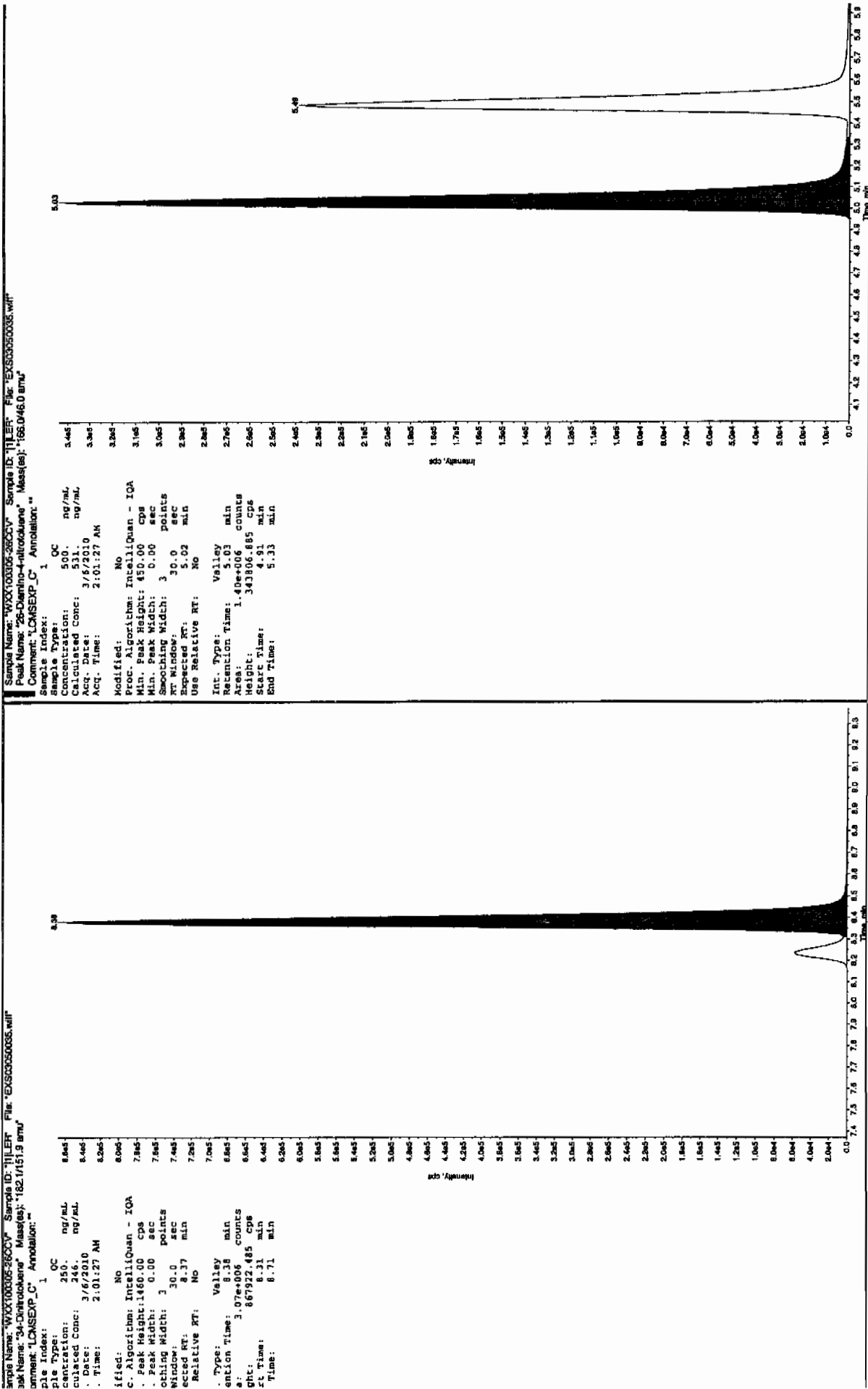
Before Jan 31/10



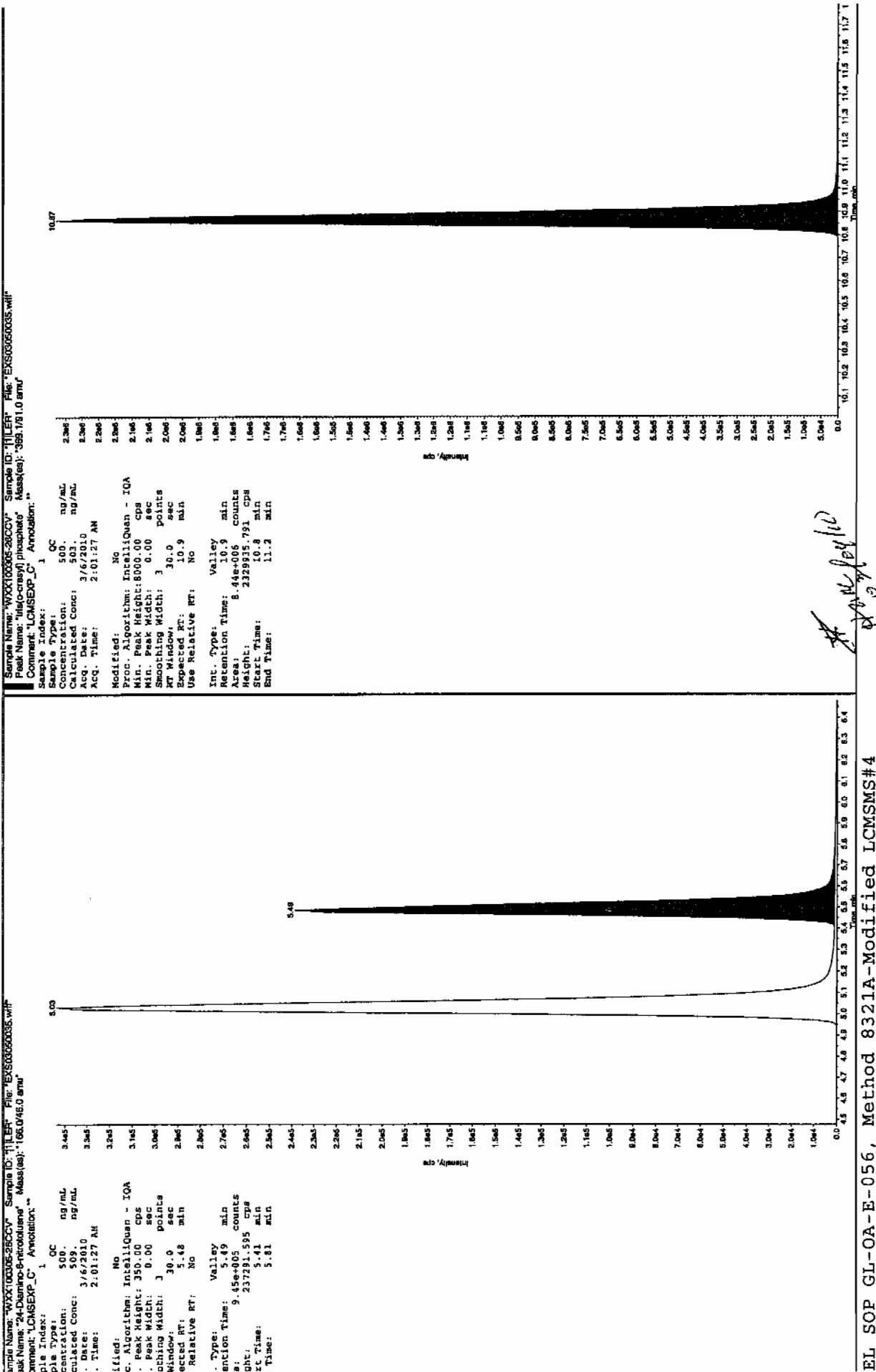
[illegible]

	QC	
Sample Index:	500.	ng/mL
Concentration:	529.	ng/mL
Calculated Conc:	1/6/2010	
Acq. Date:	2:01:27 AM	
Acq. Time:		
Modified:	Yes	
RT Window:	15.0 sec	
Expected RT:	8.23 min	
Use Relative RT:	No	
Instr. Type:	Manual	
Retention Time:	8.24 min	
Area:	4.38E+006	counts
Height:	1181932.758	CPS
Start Time:	8.16 min	
End Time:	8.34 min	





EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050037.wiff

Analysis Date: 06-MAR-10 02:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	110	110	
2,6-Diamino-4-nitrotoluene	100	113	113	
3,4-Dinitrotoluene	50	52.5	105	
3,5-Dinitroaniline	100	110	110	
TATB	100	112	112	
tris(o-cresyl) phosphate	100	97.2	97	

Recovery Limits:

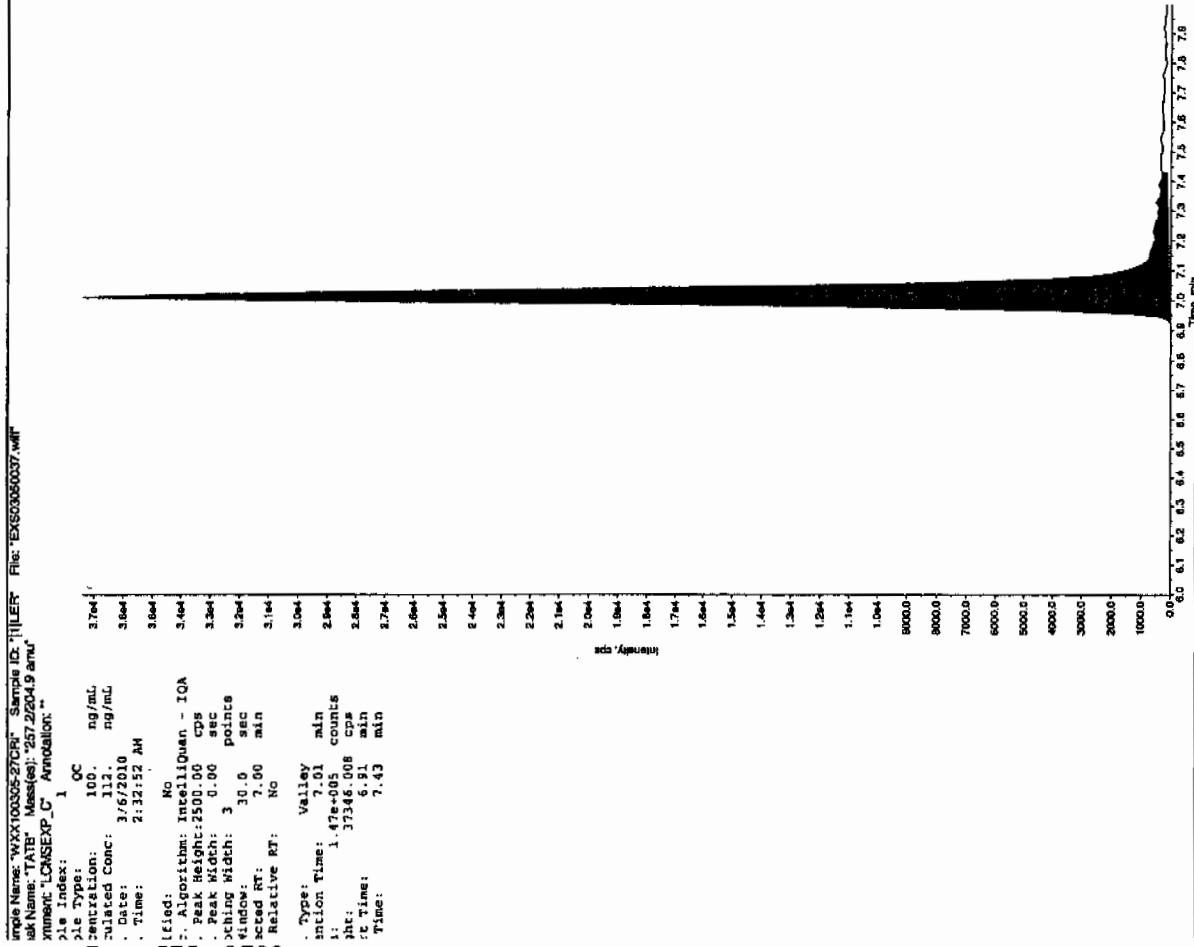
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

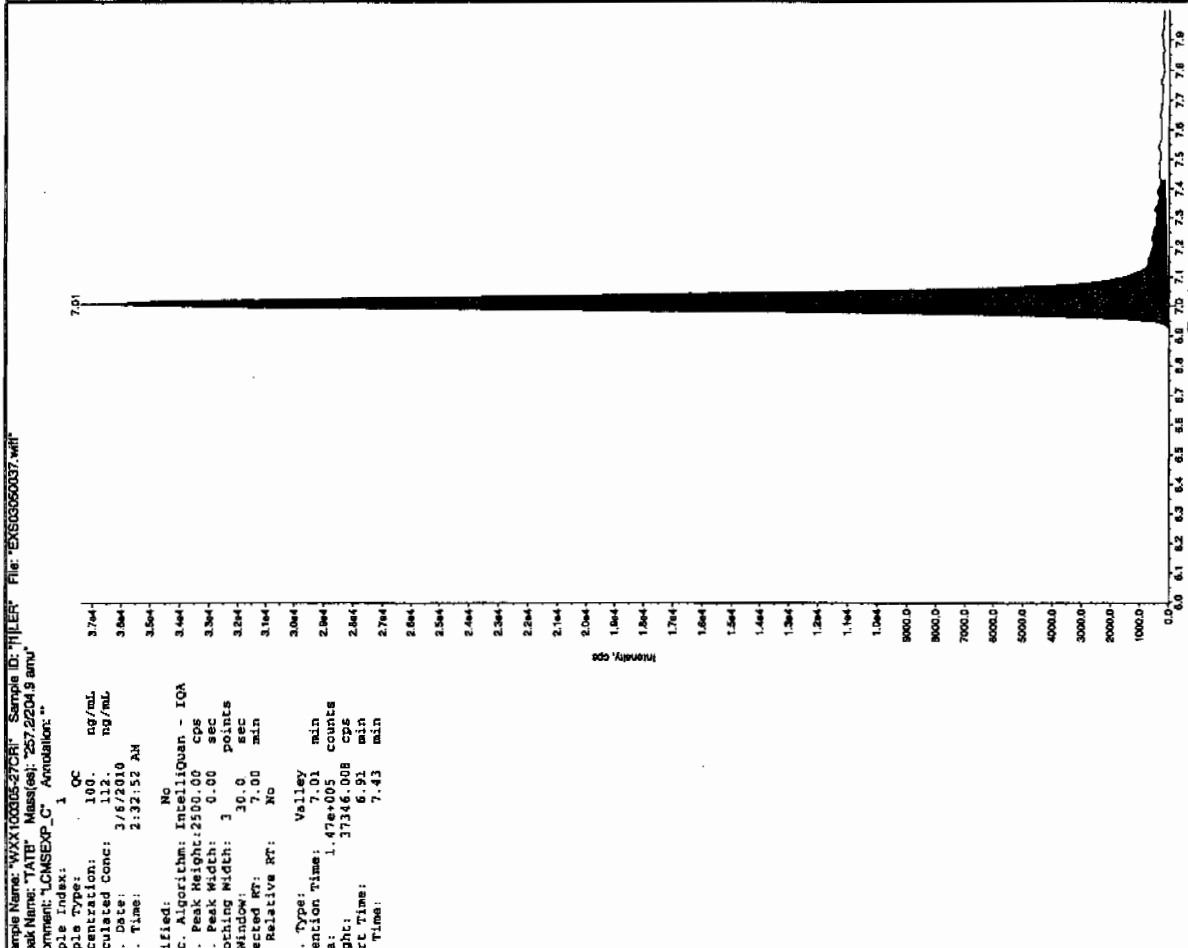
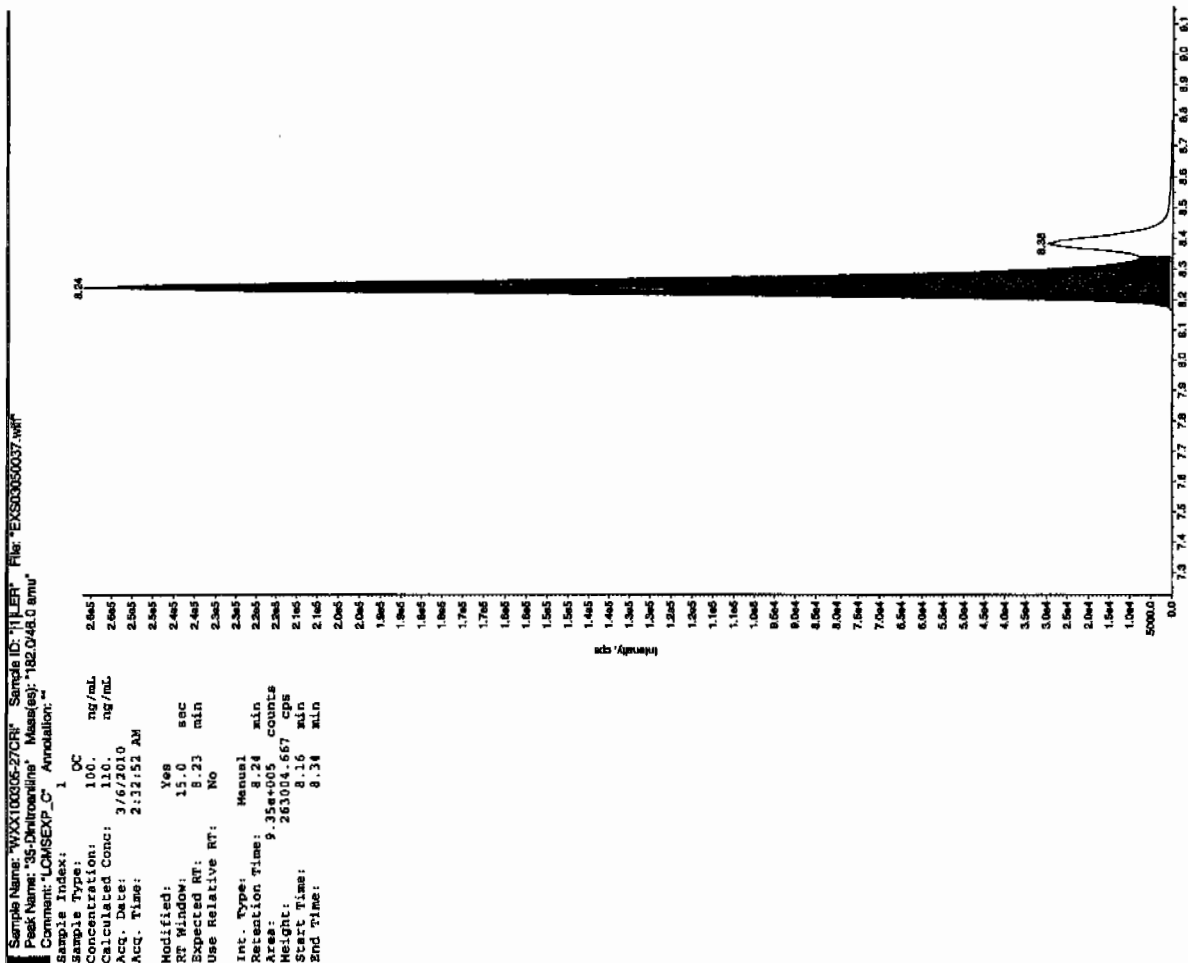
* Value outside of Recovery Limits

before Jan 31/10

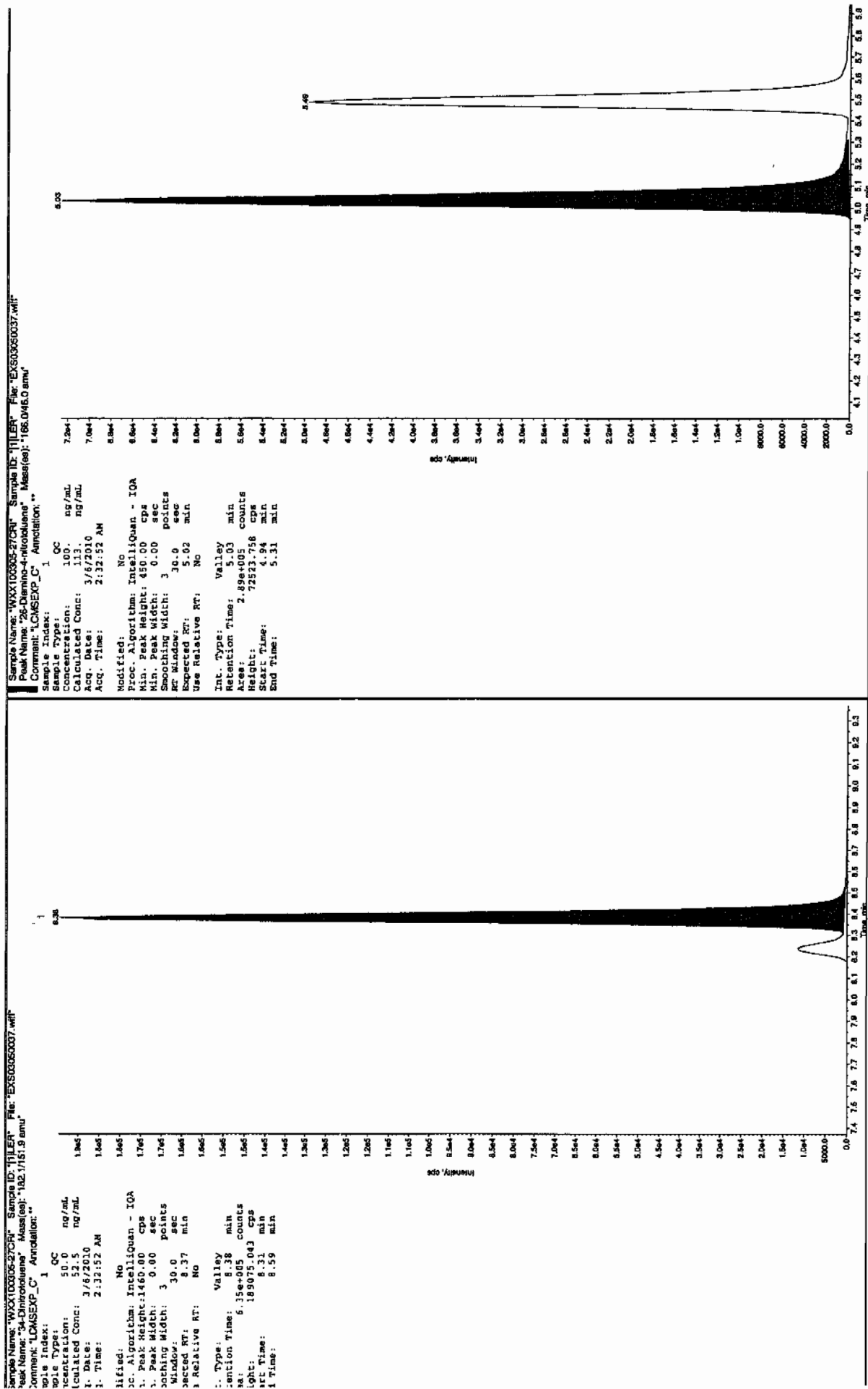


4/10/2010

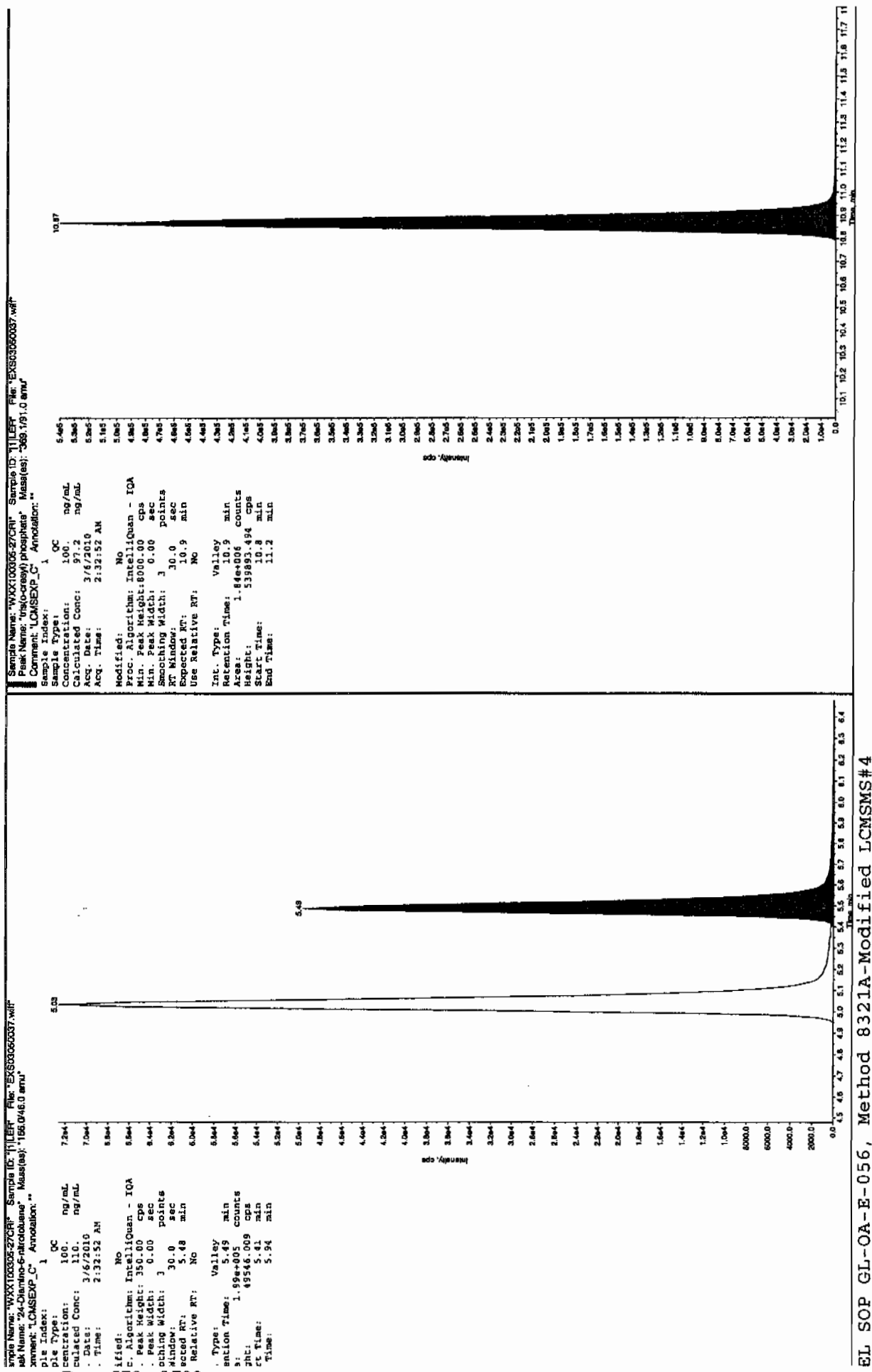
after Dec 3/9/10



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSEMS#4



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03050048.wiff

Analysis Date: 06-MAR-10 05:25

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	541	108	
2,6-Diamino-4-nitrotoluene	500	545	109	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	507	101	
TATB	500	532	106	
tris(o-cresyl) phosphate	500	501	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Sample Name: "WXX100305-25OCV" Sample ID: "11LER" File: "EXS03050048.wiff"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 487. ng/mL
Calculated Conc: 3/6/2010
Acq. Date: 5:55:35 AM
Acq. Time:

```

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: 8.23 min

```

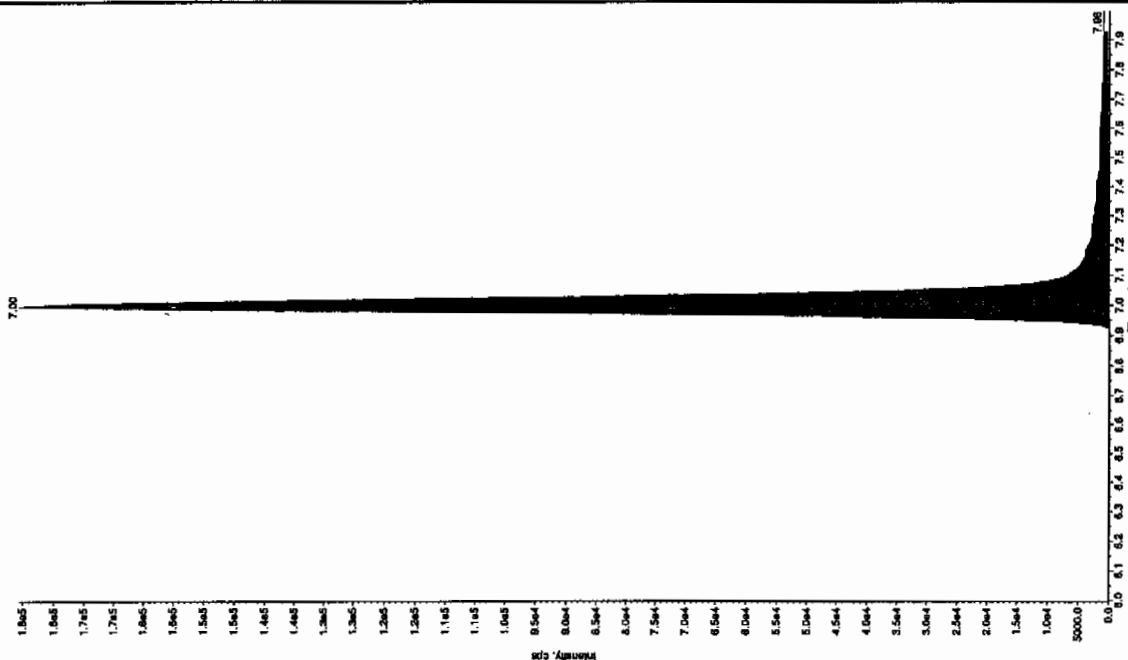
Use Relative RT:	No
Int. Type:	Valley
Retention Time:	8.23 min
Area:	3.99e+006 counts
Height:	1116178.101 cps
Start Time:	8.16 min
End Time:	8.33 min



after Jan 31/10

Sample Name: WXX100005-280CV Sample ID: 111ER File: EXS03050048.wif
 Peak Name: TATB Mass(es): 257.2204.8 amu
 Comment: LCMSEXP_C Annotation: -

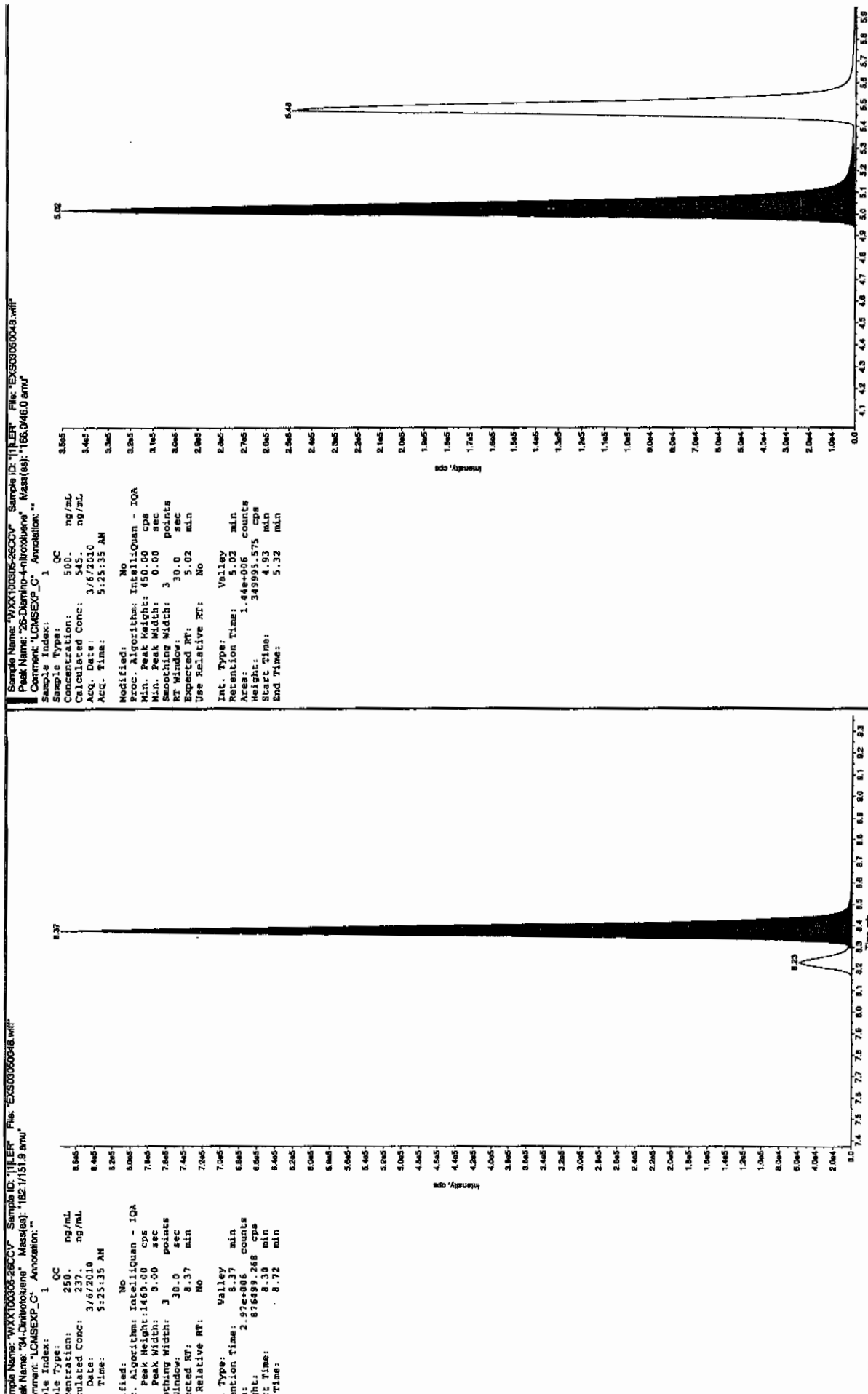
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 532. ng/mL
 Date: 3/6/2010
 Time: 5:25:35 AM
 Modified: No
 Acquisition: IntelliQuan - IQA
 Peak Width: 2500.00 cps
 Peak Height: 2500.00 cps
 Peak Width: 30.0 points
 Window: 30.0 sec
 Selected RT: 7.00 min
 Relative RT: No
 Type: Valley
 Retention Time: 7.00 min
 Area: 7.65e+005 counts
 Height: 180460.495 cps
 Start Time: 6.90 min
 End Time: 7.13 min

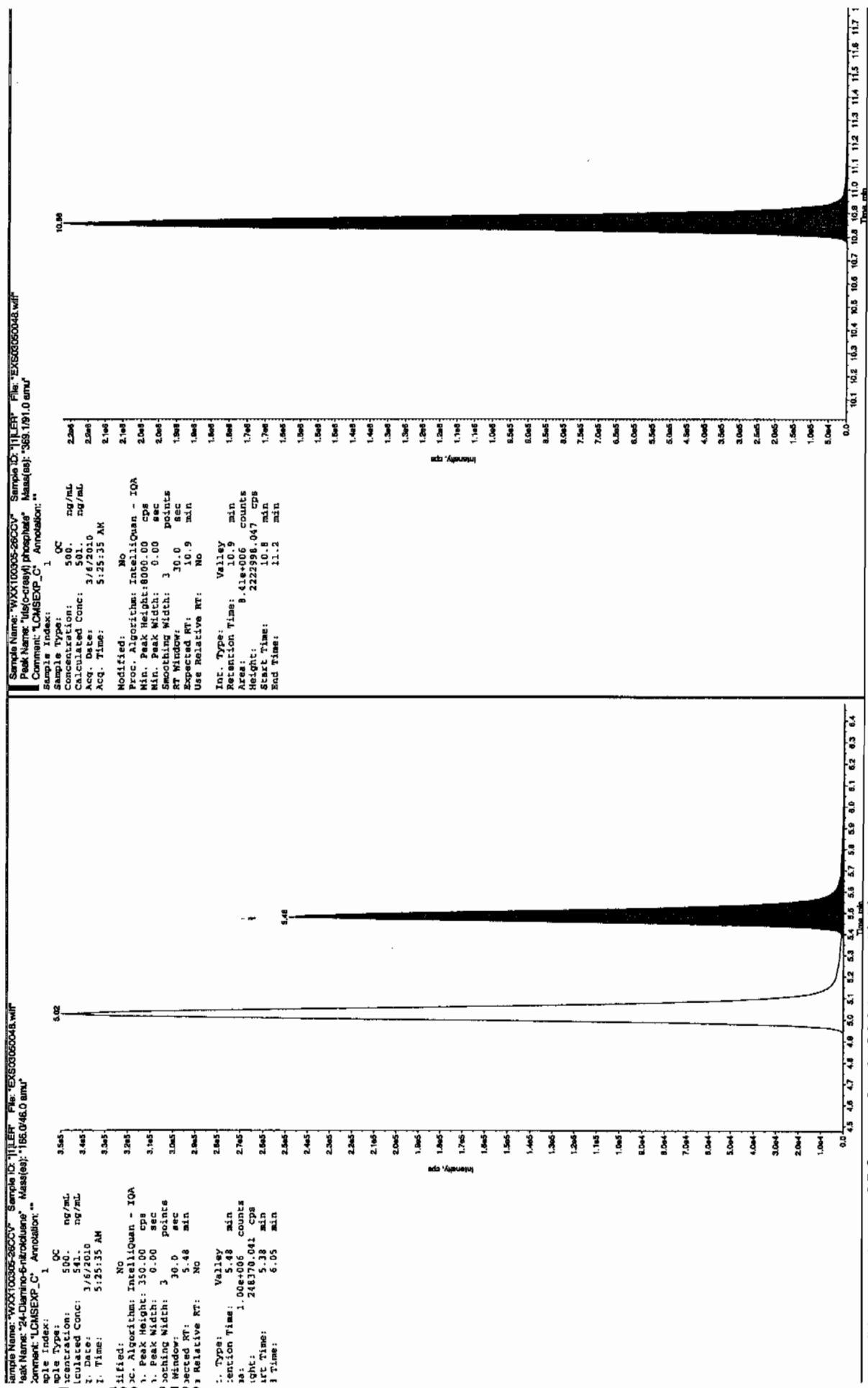


Sample Name: WXX100005-280CV Sample ID: 111ER File: EXS03050048.wif
 Peak Name: 35-Dinitroaniline Mass(es): 182.046.0 amu
 Comment: LCMSEXP_C Annotation: -

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 507. ng/mL
 Date: 3/6/2010
 Time: 5:25:35 AM
 Modified: Yes
 Acquisition: IntelliQuan - IQA
 Peak Width: 15.0 sec
 Peak Height: 8.23 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.23 min
 Area: 4.13e+006 counts
 Height: 1147846.386 cps
 Start Time: 8.16 min
 End Time: 8.33 min







7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1982

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03050050.wiff

Analysis Date: 06-MAR-10 05:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	105	105	
2,6-Diamino-4-nitrotoluene	100	111	111	
3,4-Dinitrotoluene	50	51.4	103	
3,5-Dinitroaniline	100	108	108	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	101	101	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

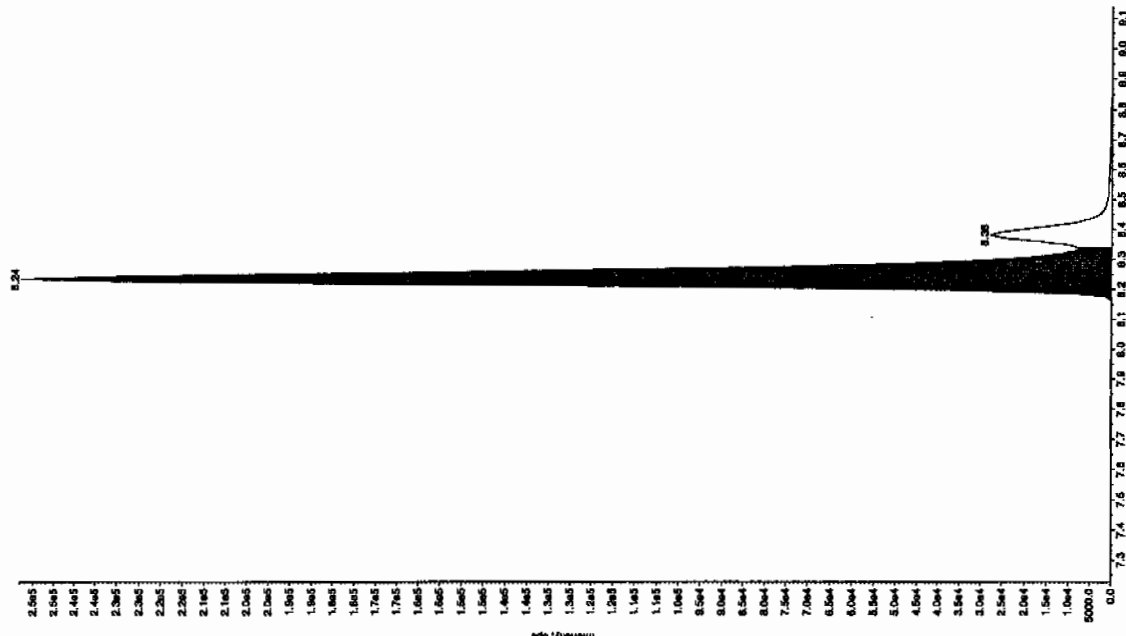
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

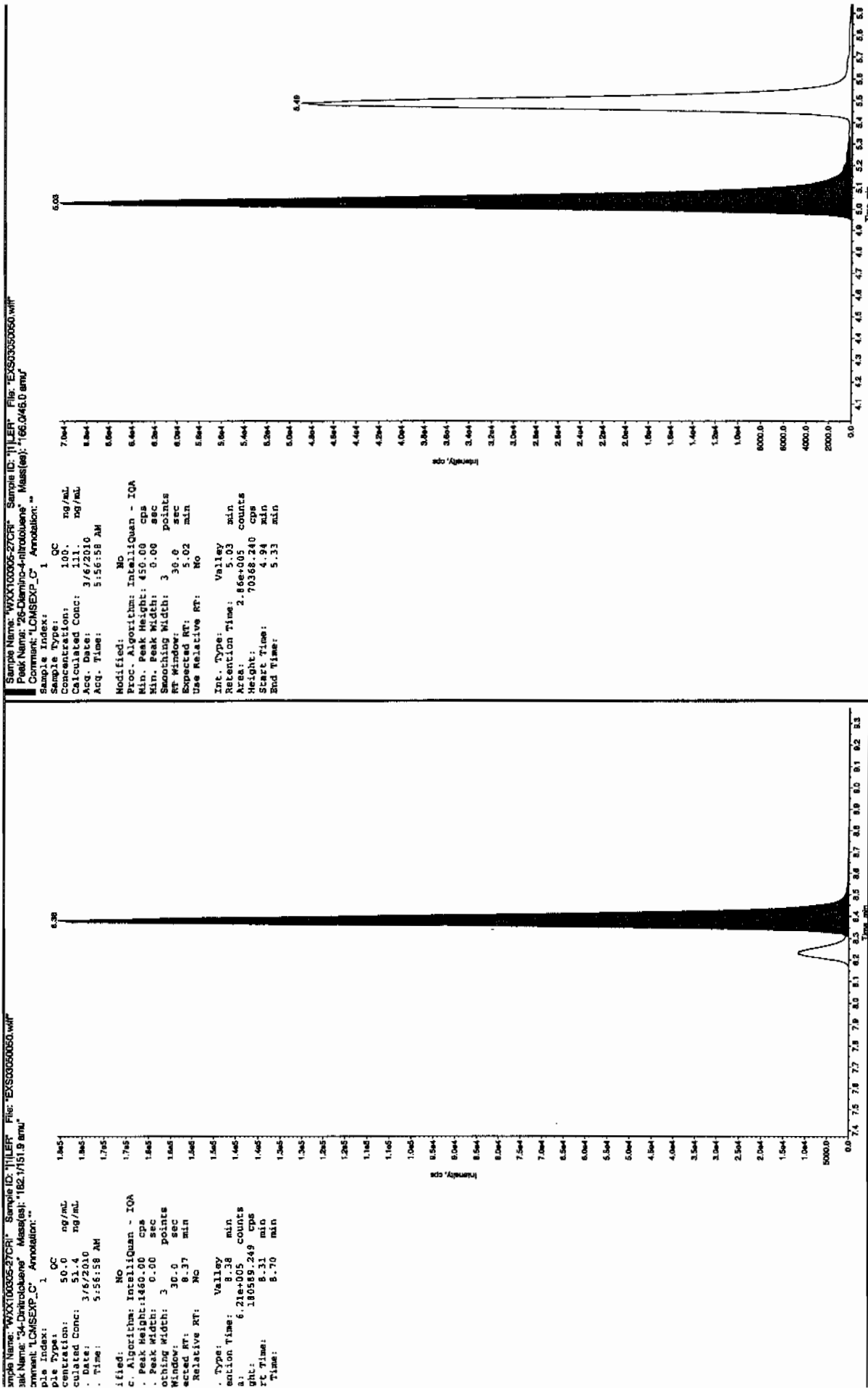
* Value outside of Recovery Limits

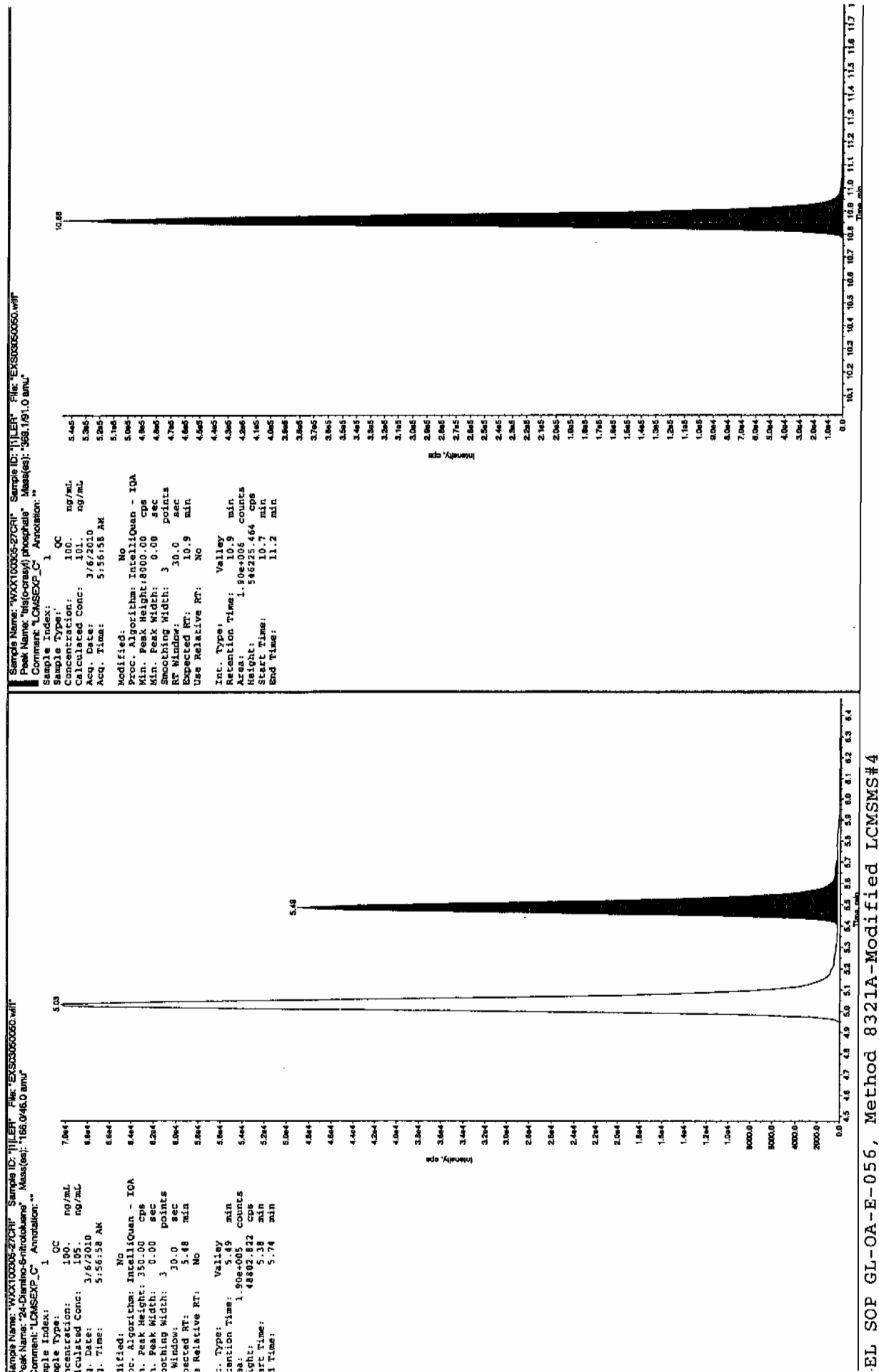
Sample Name: "WXX100305-27C01" Sample ID: "11LER" File: "EXS03050050.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"
Comment: "LCMSEXP C" Annotation: ""

Sample Index:	1	QC		ng/mL
Sample Type:				ng/mL
Concentration:				
Calculated Conc:	108.			
Date:	3/6/2019			
Time:	5:56:58 AM			
Operator:	No			
Modified:				
Protocol:	IntelliQuan - IQA			
Count:	2000.00	cps		
Peak Height:	0.00	sec		
Peak Width:	3	points		
Smoothering Width:				
T Window:	15.0	sec		
Expected RT:	8.23	min		
Relative RT:	No			
Type:	Valley			
Retention Time:	9.18	min		
Height:	252980	counts		
Width:	8.10	min		
Rise Time:	8.34	min		
Fall Time:				



Jim O'Leary





QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957199

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 1202052406

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314013a

Date Analyzed: 14-MAR-10 20:52

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report

3EL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 25 of 77

Dataset: C:\MASSLYNX\New_Exp\PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0314013a

Date: 14-Mar-2010

Time: 20:52:43

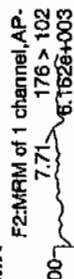
D: 1202052406

Vial: 2:1,A

Lot 7
3/15/10

LAUW/957200/Souza/MB/21

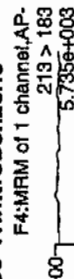
4MX



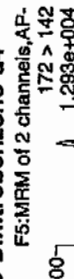
RDX



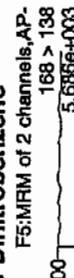
135-Trinitrobenzene



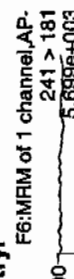
13-Dinitrobenzene-d4



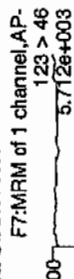
13-Dinitrobenzene



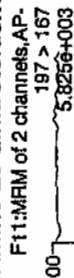
Tetryl



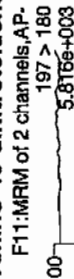
Nitrobenzene



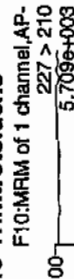
4-Amino-26-dinitrotoluene



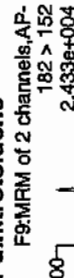
2-Amino-46-dinitrotoluene



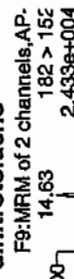
246-Trinitrotoluene



34-dinitrotoluene



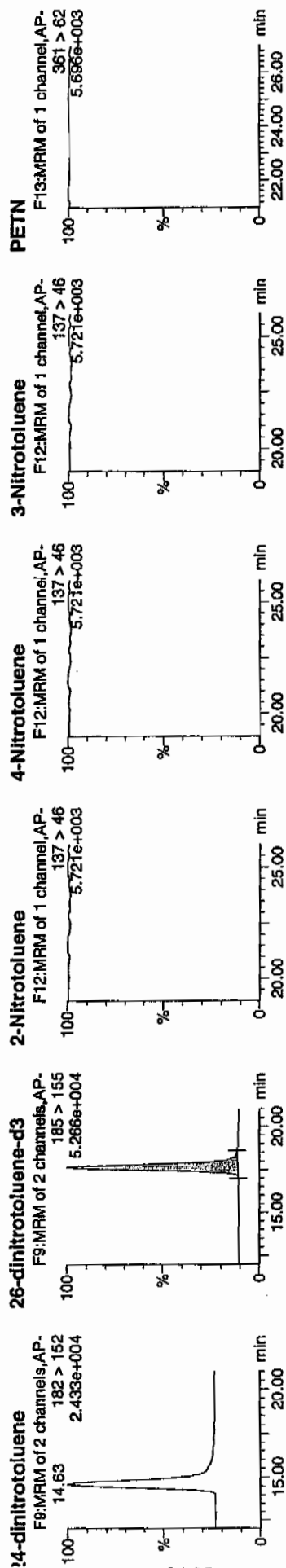
26-dinitrotoluene



4mw
03/16/10

Dataset: C:\MASSLYN\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

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Name	ID	Trace	Area	IS-Ar	Abst-Begin	Response	Flags	Mot-Data	Mot-Time	Prom	%Fid	Deg	SSN
HMX	202052406	176 > 102				3086.867							
RDX	202052406	176 > 102				3086.867			MM-	15-Mar-10	09:55:44		
135-Trinitrobenzene	202052406	213 > 183				3086.867							
13-Dinitrobenzene-d4	202052406	172 > 142	12.17			3086.867	bb			458.7487	91.7	-8.3	278.6
13-Dinitrobenzene	202052406	168 > 138				3086.867							
Tetryl	202052406	241 > 181				3086.867							
Nitrobenzene	202052406	123 > 46				3086.867							
4-Amino-26-dinitrotoluene	202052406	197 > 167				19162.287							
2-Amino-46-dinitrotoluene	202052406	197 > 180				19162.287							
246-Trinitrotoluene	202052406	227 > 210				19162.287							
34-dinitrotoluene	202052406	182 > 152	14.63			8896.315	bb			240.7362	96.3	-3.7	726.0
26-dinitrotoluene	202052406	182 > 152				19162.287							
24-dinitrotoluene	202052406	182 > 152				19162.287							
26-dinitrotoluene-d3	202052406	185 > 155	17.65			19162.287	bb			502.7982	100.6	0.6	2010.5
2-Nitrotoluene	202052406	137 > 46				19162.287							
4-Nitrotoluene	202052406	137 > 46				19162.287							
3-Nitrotoluene	202052406	137 > 46				19162.287							
PETN	202052406	361 > 62				19162.287							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 957199

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 1202052406

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050038.wiff

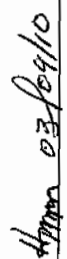
Date Analyzed: 06-MAR-10 02:48

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 =

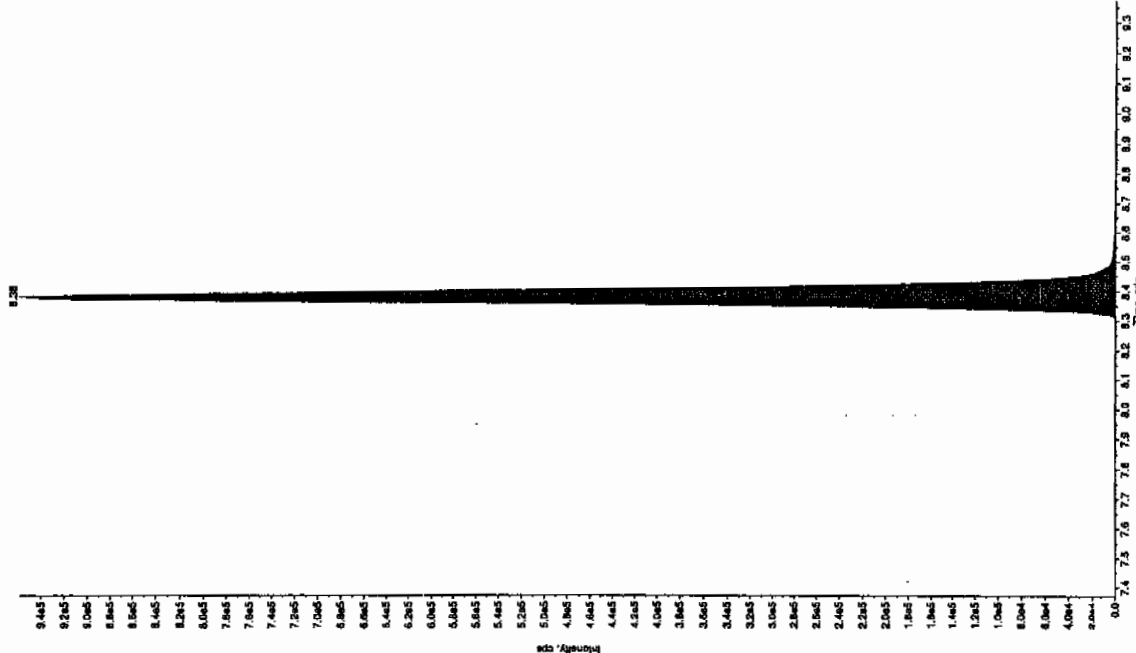
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202032406" Sample ID: "95720021LER" File: "EXS03060038.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1761.9 amu"
 Comment: "LCX83212S" Annotation: ""

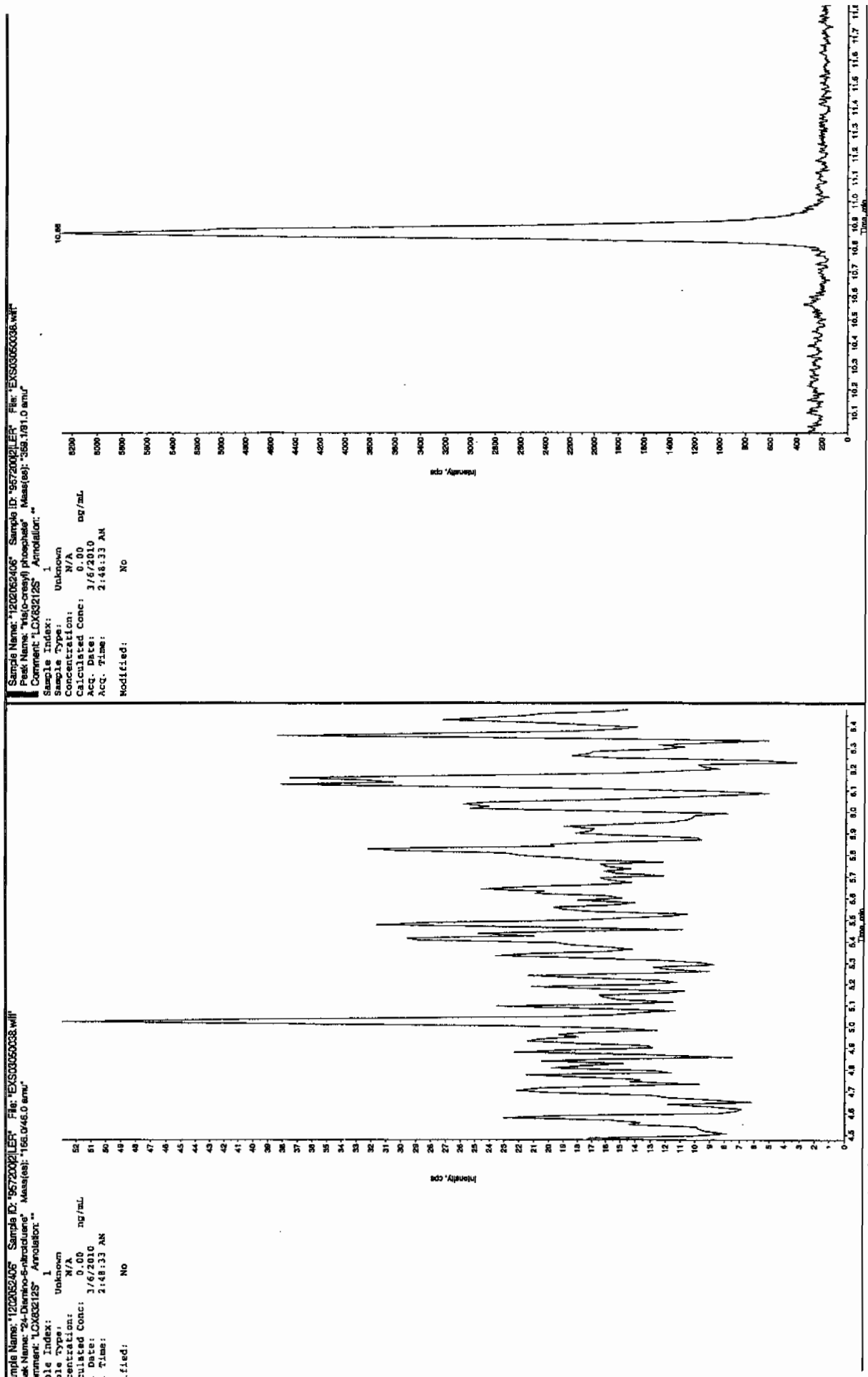
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 2:48:33 AM
 Modified: No



Sample Name: "1202032406" Sample ID: "95720021LER" File: "EXS03060038.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1761.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 263.
 Acq. Date: 3/6/2010
 Acq. Time: 2:48:33 AM
 Modified: No
 Algorithm: IntelliQuan - IQA
 Peak Height: 1466.00 cps
 Peak Width: 0.00 sec
 Rising Width: 30.0 points
 Window: 30.0 sec
 Clocked RT: 8.37 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.38 min
 Counts: 3.28e+006 counts
 RT: 958123.474 cps
 RT Time: 8.29 min
 Time: 8.75 min

L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



L SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957199

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 1202052407

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0314014a

Date Analyzed: 14-MAR-10 21:22

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4600	
121-14-2	2,4-Dinitrotoluene	4970	
121-82-4	RDX	4410	
19406-51-0	4-Amino-2,6-dinitrotoluene	4500	
2691-41-0	HMX	4500	
35572-78-2	2-Amino-4,6-dinitrotoluene	4580	
479-45-8	Tetryl	2850	
606-20-2	2,6-Dinitrotoluene	4880	
78-11-5	PETN	5070	
88-72-2	o-Nitrotoluene	5010	
98-95-3	Nitrobenzene	4740	
99-08-1	m-Nitrotoluene	5320	
99-35-4	1,3,5-Trinitrobenzene	3610	
99-65-0	m-Dinitrobenzene	4790	
99-99-0	p-Nitrotoluene	4760	

*Concentration =

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 27 of 77

Dataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0314014a

Date: 14-Mar-2010

Time: 21:22:15

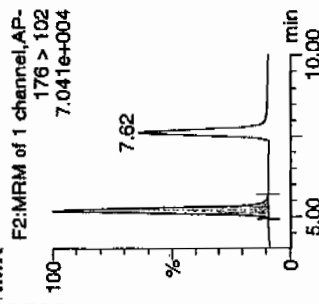
ID: 1202052407

Vial: 2:1,B

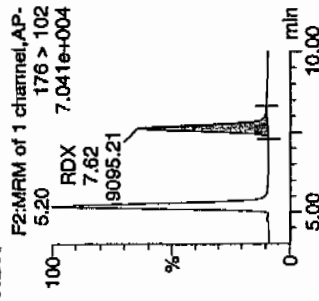
447
3/15/10

WAVE/957200 | SUBS | 108 | 21

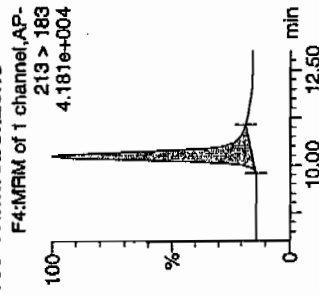
HMx



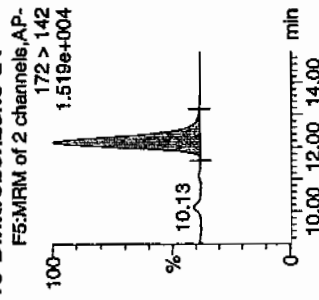
RDX



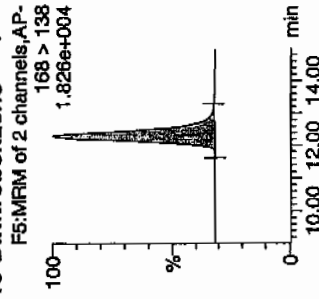
135-Trinitrobenzene



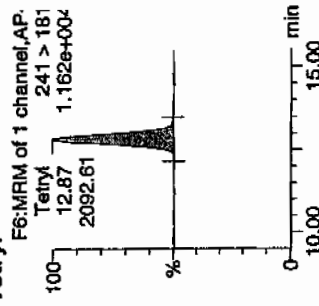
13-Dinitrobenzene-d4



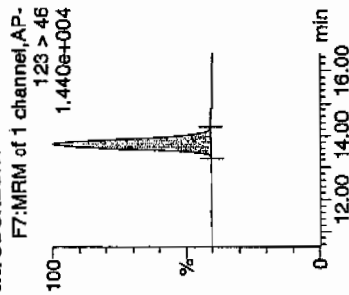
13-Dinitrobenzene



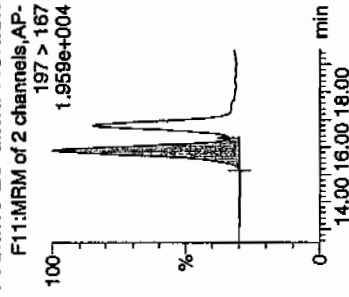
Tetryl



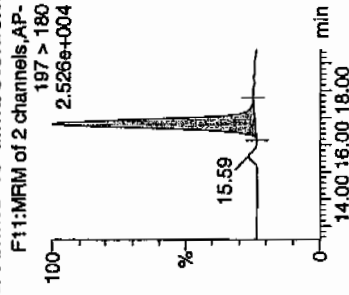
nitrobenzene



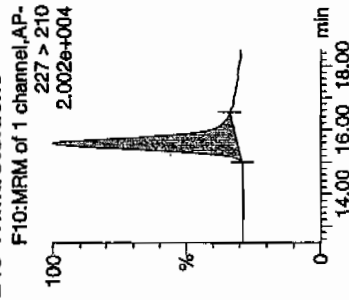
4-Amino-26-dinitrotoluene



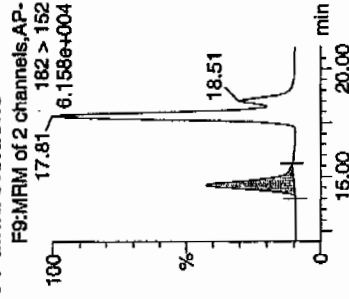
2-Amino-46-dinitrotoluene



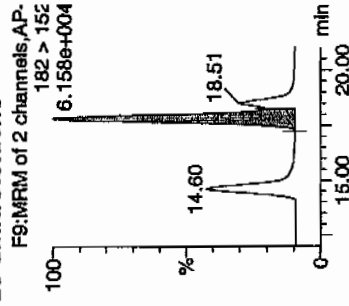
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



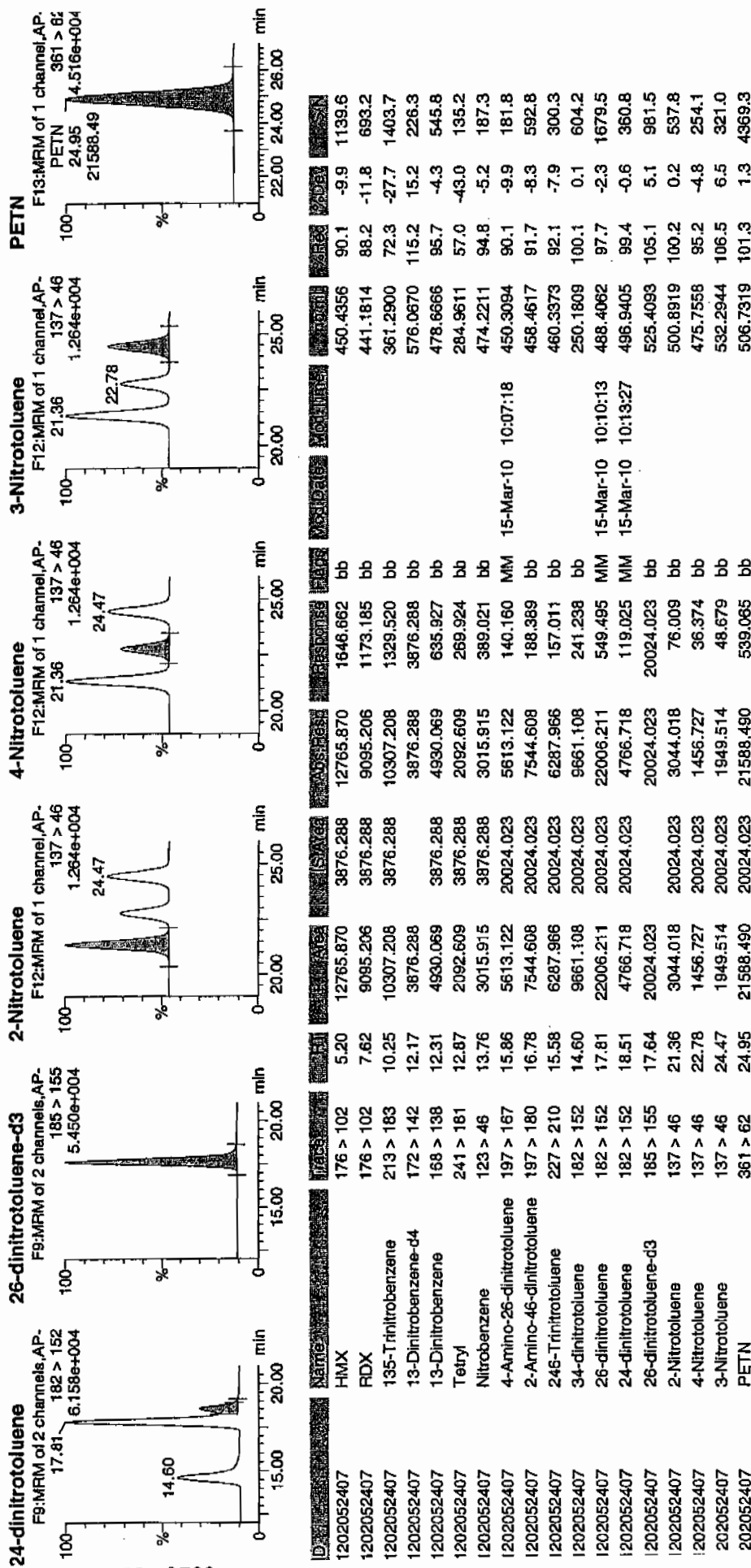
4/11/10
2/2/10/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 28 of 77

Dataset: C:\MASSLYNX\New_Exp\PROV031410expA.qld, Time: Mon Mar 15 10:15:48 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 957199

Lab Code: GEL

GEL Job No (SDG) 10-1982

Matrix: SOIL

GEL Sample ID: 1202052407

Sample Amount 2

Moisture:

Amount Units g

Date Received: 24-FEB-10

Extraction Type Sonication

Extraction Batch ID: 957199

Concentrated Extract Volume (mL) 10

Date Extracted: 01-MAR-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03050039.wiff

Date Analyzed: 06-MAR-10 03:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5390	
59229-75-3	2,6-Diamino-4-nitrotoluene	5290	
618-87-1	3,5-Dinitroaniline	5210	
6629-29-4	2,4-Diamino-6-nitrotoluene	4910	
78-30-8	tris(o-cresyl) phosphate	5000	

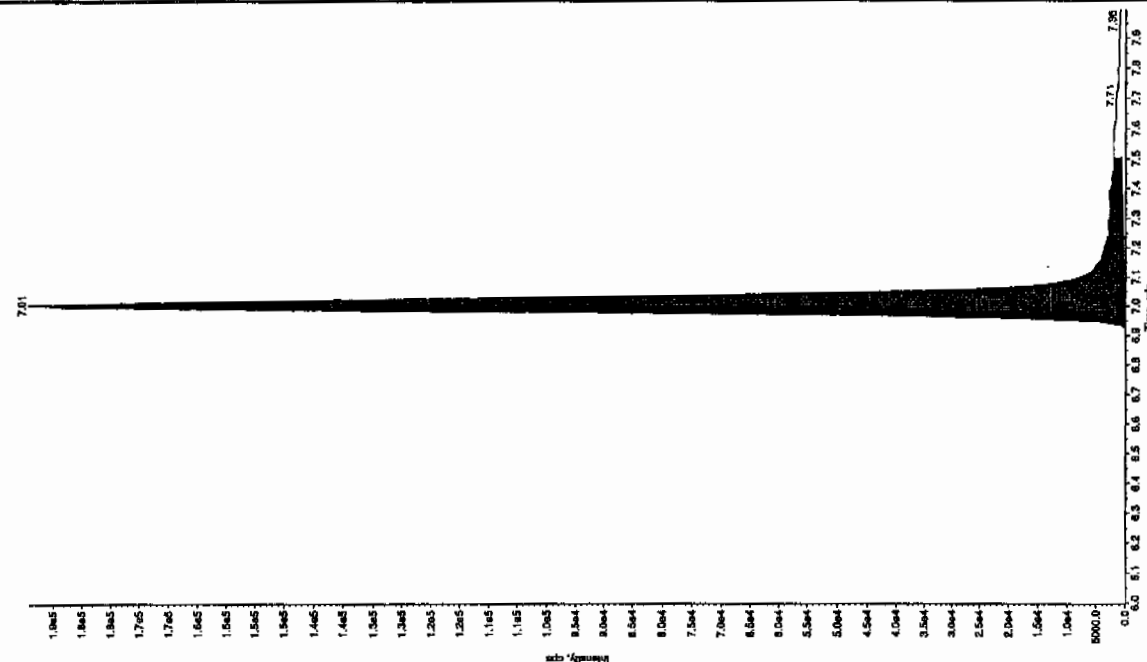
*Concentration =

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

Jan 3/2/10

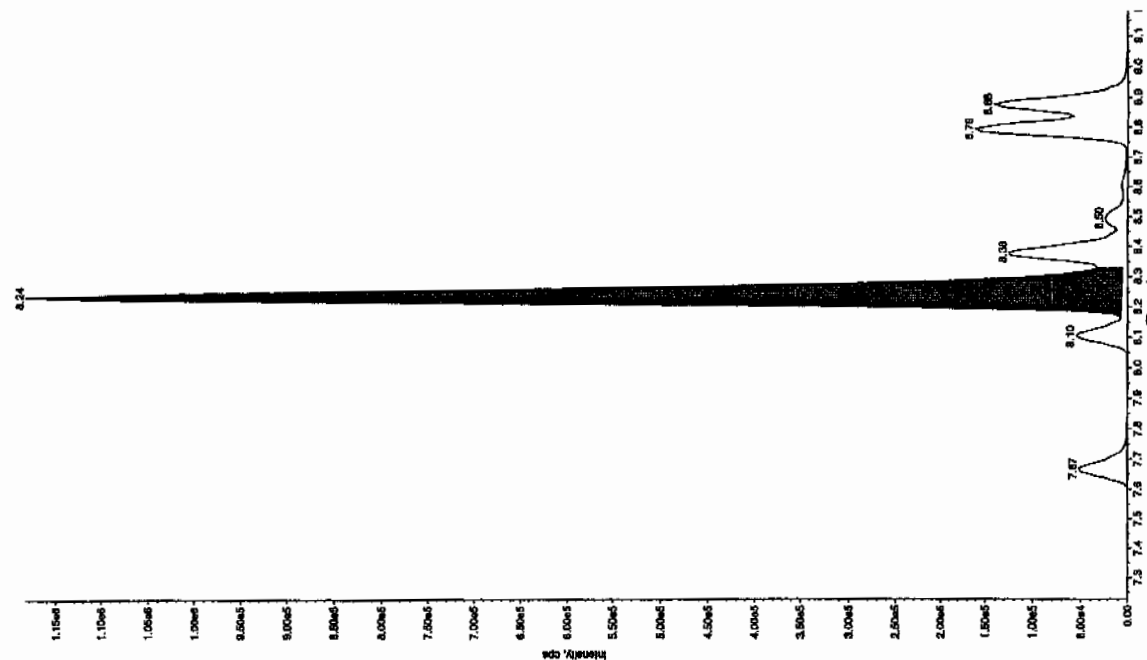
Sample Name: "120252407" Sample ID: "55720021ER" File: "EXS03050039.wif"
 Peak Name: "TATB" Mass(es): "257.2200.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 539 ng/mL
 Date: 3/6/2010
 Time: 3:04:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 30.0 sec
 Selected RT: 7.09 min
 Relative RT: No
 Type: Valley
 Retention Time: 7.01 min
 Area: 7.77e+005 counts
 Height: 189066.483 cps
 Start Time: 6.91 min
 End Time: 7.50 min

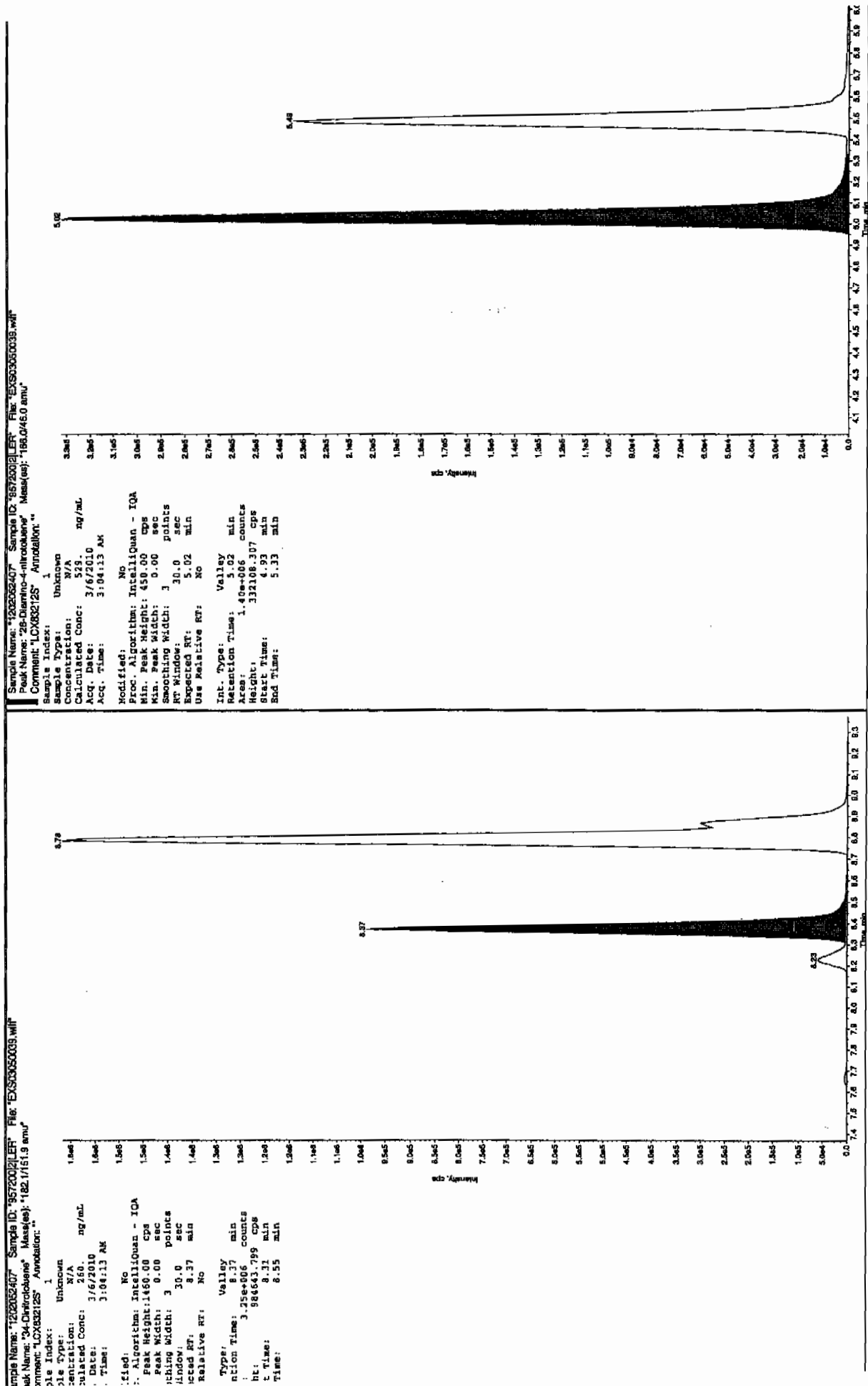


Sample Name: "120252407" Sample ID: "55720021ER" File: "EXS03050039.wif"
 Peak Name: "35-Oxibenzofuran" Mass(es): "182.0460.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 521 ng/mL
 Date: 3/6/2010
 Time: 3:04:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Selected RT: 8.23 min
 Relative RT: No
 Type: Valley
 Retention Time: 8.24 min
 Area: 4.24e+006 counts
 Height: 1177540.549 cps
 Start Time: 8.16 min
 End Time: 8.33 min

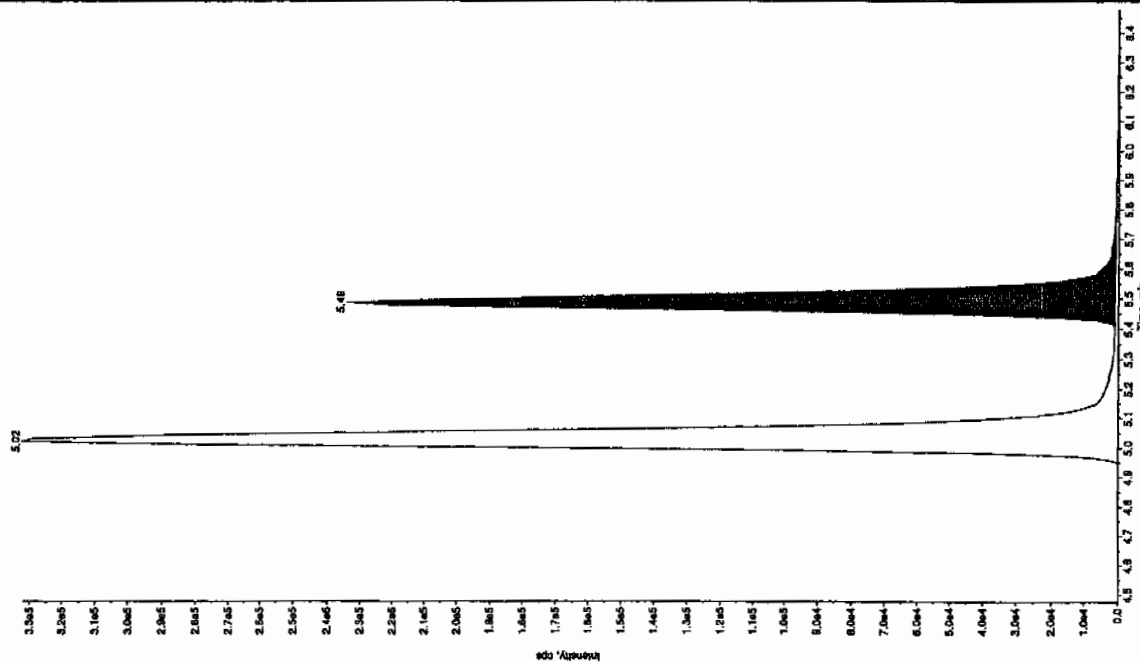


Jan 23/04/10



Sample Name: "1202032407" Sample ID: "95720021LER" File: "EXS03050039.wif"
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "360.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.622010 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 3:04:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 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: 8.40e+005 counts
 Height: 2224231.709 cps
 Start Time: 10.8 min
 End Time: 11.3 min



Sample Name: "1202032407" Sample ID: "95720021LER" File: "EXS03050039.wif"
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "360.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.622010 ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 3:04:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 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: 8.40e+005 counts
 Height: 2224231.709 cps
 Start Time: 10.8 min
 End Time: 11.3 min



SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

MISCELLANEOUS DATA

Prep Logbook Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 957199 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)	Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
1202052406 MB	01-MAR-2010 16:03:00	2	10	5	LCS	1202052407	8321 Explosives LCS	DX100225-03	.1	mL	Final Solvent: ACN
1202052407 LCS	01-MAR-2010 16:03:00	2	10	5	LCS	1202052407	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
247784002	01-MAR-2010 16:03:00	2	10	5	MS	1202052408	8321 Explosives LCS	DX100225-03	.1	mL	
247790002	01-MAR-2010 16:03:00	2	10	5	MS	1202052408	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
247790003	01-MAR-2010 16:03:00	2	10	5	MSD	1202052409	8321 Explosives LCS	DX100225-03	.1	mL	
247791002	01-MAR-2010 16:03:00	2	10	5	MSD	1202052409	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL	
247791003	01-MAR-2010 16:03:00	2	10	5	SURR	ALL	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DXP100223-02	.05	mL	
247791004	01-MAR-2010 16:03:00	2	10	5							
247791005	01-MAR-2010 16:03:00	2	10	5							
247791006	01-MAR-2010 16:03:00	2	10	5							
247799001	01-MAR-2010 16:03:00	2	10	5							
1202052408 MS (247799001)	01-MAR-2010 16:03:00	2	10	5							
1202052409 MSD (247799001)	01-MAR-2010 16:03:00	2	10	5							
247799002	01-MAR-2010 16:03:00	2	10	5							
247799003	01-MAR-2010 16:03:00	2	10	5							
247799004	01-MAR-2010 16:03:00	2	10	5							
247799005	01-MAR-2010 16:03:00	2	10	5							
247799006	01-MAR-2010 16:03:00	2	10	5							
247799007	01-MAR-2010 16:03:00	2	10	5							
247799008	01-MAR-2010 16:03:00	2	10	5							
247799009	01-MAR-2010 16:03:00	2	10	5							
247799010	01-MAR-2010 16:03:00	2	10	5							

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/14/10
 Extr. Injection Volume: 50uL
 Sequence Number: 031410expA
 Initial Calibration Date: 03/14/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100220-02.2
 Mobile Phase Lot#: 1283854, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1271949
 Reviewed BY: *hmc*
 Date: *03/16/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100314-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0314001a	XIBLK01	MAP	3/14/10 14:59			1		USE	B
EXP0314002a	XIBLK01	MAP	3/14/10 15:28			1		USE	B
EXP0314003a	WXXICAL-01	MAP	3/14/10 15:57			1		USE	I
EXP0314004a	WXXICAL-02	MAP	3/14/10 16:27			1		USE	I
EXP0314005a	WXXICAL-03	MAP	3/14/10 16:56			1		USE	I
EXP0314006a	WXXICAL-04	MAP	3/14/10 17:26			1		USE	I
EXP0314007a	WXXICAL-05	MAP	3/14/10 17:55			1		USE	I
EXP0314008a	WXXICAL-06	MAP	3/14/10 18:25			1		USE	I
EXP0314009a	XIBLK02	MAP	3/14/10 18:54			1		USE	B
EXP0314010a	WXXICV	MAP	3/14/10 19:24			1		USE	C
EXP0314011a	XIBLK03	MAP	3/14/10 19:53			1		USE	B
EXP0314012a	WXXCRI	MAP	3/14/10 20:23			1		USE	C
EXP0314013a	1202052406	MAP	3/14/10 20:52	957200	Various	2	LANL	USE	S
EXP0314014a	1202052407	MAP	3/14/10 21:22	957200	Various	2	LANL	USE	S
EXP0314015a	247784002	MAP	3/14/10 21:51	957200	10-1979	2	LANL	USE	S
EXP0314016a	247790002	MAP	3/14/10 22:21	957200	10-1981	2	LANL	USE	S
EXP0314017a	247790003	MAP	3/14/10 22:50	957200	10-1981	2	LANL	USE	S
EXP0314018a	247791002	MAP	3/14/10 23:20	957200	10-1982	2	LANL	USE	S
EXP0314019a	247791003	MAP	3/14/10 23:49	957200	10-1982	2	LANL	USE	S
EXP0314020a	247791004	MAP	3/15/10 0:19	957200	10-1982	2	LANL	USE	S
EXP0314021a	247791005	MAP	3/15/10 0:48	957200	10-1982	2	LANL	USE	S
EXP0314022a	247791006	MAP	3/15/10 1:17	957200	10-1982	2	LANL	USE	S
EXP0314023a	WXXCCV	MAP	3/15/10 1:47			1		USE	C
EXP0314024a	XIBLK04	MAP	3/15/10 2:17			1		USE	B
EXP0314025a	WXXCRI	MAP	3/15/10 2:46			1		USE	C
EXP0314026a	247799001	MAP	3/15/10 3:15	957200	10-1990	2	LANL	USE	S
EXP0314027a	1202052408	MAP	3/15/10 3:45	957200	10-1990	2	LANL	USE	S
EXP0314028a	1202052409	MAP	3/15/10 4:14	957200	10-1990	2	LANL	USE	S
EXP0314029a	247799002	MAP	3/15/10 4:44	957200	10-1990	2	LANL	USE	S

EXP0314030a	247799003	MAP	3/15/10 5:13	957200	10-1990	2	LANL	USE	S
EXP0314031a	247799004	MAP	3/15/10 5:43	957200	10-1990	2	LANL	USE	S
EXP0314032a	247799005	MAP	3/15/10 6:12	957200	10-1990	2	LANL	USE	S
EXP0314033a	247799006	MAP	3/15/10 6:42	957200	10-1990	2	LANL	USE	S
EXP0314034a	247799007	MAP	3/15/10 7:11	957200	10-1990	2	LANL	USE	S
EXP0314035a	247799008	MAP	3/15/10 7:41	957200	10-1990	2	LANL	USE	S
EXP0314036a	WXXCCV	MAP	3/15/10 8:10			1		USE	C
EXP0314037a	XIBLK05	MAP	3/15/10 8:40			1		USE	B
EXP0314038a	WXXCRI	MAP	3/15/10 9:09			1		USE	C
EXP0314039a	247799009	MAP	15/03/2010 09:39	957200	10-1990	2	LANL	USE	S
EXP0314040a	247799010	MAP	15/03/2010 10:08	957200	10-1990	2	LANL	USE	S
EXP0314041a	XIBLK06	MAP	15/03/2010 10:38			1	LANL	USE	B
EXP0314042a	1202045802	MAP	15/03/2010 11:07	954361	10-1839	2	LANL	USE	S
EXP0314043a	1202045803	MAP	15/03/2010 11:37	954361	10-1839	2	LANL	USE	S
EXP0314044a	247116002	MAP	15/03/2010 12:07	954361	10-1839	2	LANL	USE	S
EXP0314045a	1202045804	MAP	15/03/2010 12:36	954361	10-1839	2	LANL	USE	S
EXP0314046a	1202045805	MAP	15/03/2010 13:06	954361	10-1839	2	LANL	USE	S
EXP0314047a	247116003	MAP	15/03/2010 13:35	954361	10-1839	2	LANL	USE	S
EXP0314048a	247116004	MAP	15/03/2010 14:04	954361	10-1839	2	LANL	USE	S
EXP0314049a	WXXCCV	MAP	15/03/2010 14:34			1		USE	C
EXP0314050a	XIBLK07	MAP	15/03/2010 15:04			1		USE	B
EXP0314051a	WXXCRI	MAP	15/03/2010 15:33			1		USE	C
EXP0314052a	247116006	MAP	15/03/2010 16:03	954361	10-1839	2	LANL	USE	S
EXP0314053a	247116007	MAP	15/03/2010 16:32	954361	10-1839	2	LANL	USE	S
EXP0314054a	247116008	MAP	15/03/2010 17:02	954361	10-1839	2	LANL	USE	S
EXP0314055a	247116009	MAP	15/03/2010 17:31	954361	10-1839	2	LANL	USE	S
EXP0314056a	247116010	MAP	15/03/2010 18:01	954361	10-1839	2	LANL	USE	S
EXP0314057a	247116011	MAP	15/03/2010 18:30	954361	10-1839	2	LANL	USE	S
EXP0314058a	247116012	MAP	15/03/2010 19:00	954361	10-1839	2	LANL	USE	S
EXP0314059a	247116013	MAP	15/03/2010 19:29	954361	10-1839	2	LANL	USE	S
EXP0314060a	247116014	MAP	15/03/2010 19:59	954361	10-1839	2	LANL	USE	S
EXP0314061a	247116015	MAP	15/03/2010 20:28	954361	10-1839	2	LANL	USE	S
EXP0314062a	WXXCCV	MAP	15/03/2010 20:58			1		USE	C
EXP0314063a	XIBLK08	MAP	15/03/2010 21:27			1		USE	B
EXP0314064a	WXXCRI	MAP	15/03/2010 21:57			1		USE	C
EXP0314065a	247116016	MAP	15/03/2010 22:26	954361	10-1839	2	LANL	USE	S
EXP0314066a	247116017	MAP	15/03/2010 22:56	954361	10-1839	2	LANL	USE	S

EXP0314067a	1202041915	MAP	15/03/2010 23:25	952684	Various	2	LANL	DUSE	S
EXP0314068a	XIBLK09	MAP	15/03/2010 23:55			1		USE	B
EXP0314069a	1202055082	MAP	16/03/2010 00:24	958286	Various	2	LANL	USE	S
EXP0314070a	1202055083	MAP	16/03/2010 00:54	958286	Various	2	LANL	USE	S
EXP0314071a	248040007	MAP	16/03/2010 01:23	958286	10-2051	2	LANL	USE	S
EXP0314072a	1202055084	MAP	16/03/2010 01:53	958286	10-2051	2	LANL	USE	S
EXP0314073a	1202055085	MAP	16/03/2010 02:22	958286	10-2051	2	LANL	DUSE-RA	S
EXP0314074a	248259006	MAP	16/03/2010 02:52	958286	10-2148	2	LANL	USE-DL	S
EXP0314075a	WXXCCV	MAP	16/03/2010 03:21			1		USE	C
EXP0314076a	XIBLK10	MAP	16/03/2010 03:51			1		USE	B
EXP0314077a	WXXCRI	MAP	16/03/2010 04:20			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/05/10
 Extr. Injection Volume: 10uL
 Sequence Number: 030510exs
 Initial Calibration Date: 030510
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *AMM*
 Date: *03/09/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100305-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03050001.wiff	XIBLK01	LER	3/5/2010 17:07			1		USE	B
EXS03050002.wiff	XIBLK01	LER	3/5/2010 17:23			1		USE	B
EXS03050003.wiff	WXXICAL-19	LER	3/5/2010 17:39			1		USE	I
EXS03050004.wiff	WXXICAL-20	LER	3/5/2010 17:54			1		USE	I
EXS03050005.wiff	WXXICAL-21	LER	3/5/2010 18:10			1		USE	I
EXS03050006.wiff	WXXICAL-22	LER	3/5/2010 18:26			1		USE	I
EXS03050007.wiff	WXXICAL-23	LER	3/5/2010 18:41			1		USE	I
EXS03050008.wiff	WXXICAL-24	LER	3/5/2010 18:57			1		USE	I
EXS03050009.wiff	WXXICAL-25	LER	3/5/2010 19:13			1		USE	I
EXS03050010.wiff	XIBLK02	LER	3/5/2010 19:29			1		USE	B
EXS03050011.wiff	WXXICV	LER	3/5/2010 19:44			1		USE	C
EXS03050012.wiff	XIBLK03	LER	3/5/2010 20:00			1		USE	B
EXS03050013.wiff	WXXCRI	LER	3/5/2010 20:16			1		USE	C
EXS03050014.wiff	1202045735	LER	3/5/2010 20:31	954321	VARIOUS	2	LANL	USE	S
EXS03050015.wiff	1202045736	LER	3/5/2010 20:47	954321	VARIOUS	2	LANL	USE	S
EXS03050016.wiff	247126001	LER	3/5/2010 21:03	954321	10-1849	2	LANL	USE	S
EXS03050017.wiff	1202045737	LER	3/5/2010 21:18	954321	10-1849	2	LANL	USE	S
EXS03050018.wiff	1202045738	LER	3/5/2010 21:34	954321	10-1849	2	LANL	USE	S
EXS03050019.wiff	247126002	LER	3/5/2010 21:50	954321	10-1849	2	LANL	USE	S
EXS03050020.wiff	247126003	LER	3/5/2010 22:05	954321	10-1849	2	LANL	USE	S
EXS03050021.wiff	247178001	LER	3/5/2010 22:21	954321	10-1861	2	LANL	USE	S
EXS03050022.wiff	247178002	LER	3/5/2010 22:37	954321	10-1861	2	LANL	USE	S
EXS03050023.wiff	247178003	LER	3/5/2010 22:53	954321	10-1861	2	LANL	USE	S
EXS03050024.wiff	WXXCCV	LER	3/5/2010 23:08			1		USE	C
EXS03050025.wiff	XIBLK04	LER	3/5/2010 23:24			1		USE	B
EXS03050026.wiff	WXXCRI	LER	3/5/2010 23:40			1		USE	C
EXS03050027.wiff	247178004	LER	3/5/2010 23:55	954321	10-1861	2	LANL	USE	S
EXS03050028.wiff	247178005	LER	3/6/2010 0:11	954321	10-1861	2	LANL	USE	S
EXS03050029.wiff	247178006	LER	3/6/2010 0:27	954321	10-1861	2	LANL	USE	S
EXS03050030.wiff	247178007	LER	3/6/2010 0:42	954321	10-1861	2	LANL	USE	S

EXS03050031.wiff	247178008	LER	3/6/2010 0:58	954321	10-1861	2	LANL	USE	S
EXS03050032.wiff	247178009	LER	3/6/2010 1:14	954321	10-1861	2	LANL	USE	S
EXS03050033.wiff	247178010	LER	3/6/2010 1:30	954321	10-1861	2	LANL	USE	S
EXS03050034.wiff	247178011	LER	3/6/2010 1:45	954321	10-1861	2	LANL	USE	S
EXS03050035.wiff	WXXCCV	LER	3/6/2010 2:01			1		USE	C
EXS03050036.wiff	XIBLK05	LER	3/6/2010 2:17			1		USE	B
EXS03050037.wiff	WXXCRI	LER	3/6/2010 2:32			1		USE	C
EXS03050038.wiff	1202052406	LER	3/6/2010 2:48	957200	VARIOUS	2	LANL	USE	S
EXS03050039.wiff	1202052407	LER	3/6/2010 3:04	957200	VARIOUS	2	LANL	USE	S
EXS03050040.wiff	247784002	LER	3/6/2010 3:19	957200	10-1979	2	LANL	USE	S
EXS03050041.wiff	247790002	LER	3/6/2010 3:35	957200	10-1981	2	LANL	USE	S
EXS03050042.wiff	247790003	LER	3/6/2010 3:51	957200	10-1981	2	LANL	USE	S
EXS03050043.wiff	247791002	LER	3/6/2010 4:07	957200	10-1982	2	LANL	USE	S
EXS03050044.wiff	247791003	LER	3/6/2010 4:22	957200	10-1982	2	LANL	USE	S
EXS03050045.wiff	247791004	LER	3/6/2010 4:38	957200	10-1982	2	LANL	USE	S
EXS03050046.wiff	247791005	LER	3/6/2010 4:54	957200	10-1982	2	LANL	USE	S
EXS03050047.wiff	247791006	LER	3/6/2010 5:09	957200	10-1982	2	LANL	USE	S
EXS03050048.wiff	WXXCCV	LER	3/6/2010 5:25			1		USE	C
EXS03050049.wiff	XIBLK06	LER	3/6/2010 5:41			1		USE	B
EXS03050050.wiff	WXXCRI	LER	3/6/2010 5:56			1		USE	C
EXS03050051.wiff	247799001	LER	3/6/2010 6:12	957200	10-1990	2	LANL	USE	S
EXS03050052.wiff	1202052408	LER	3/6/2010 6:28	957200	10-1990	2	LANL	USE	S
EXS03050053.wiff	1202052409	LER	3/6/2010 6:44	957200	10-1990	2	LANL	USE	S
EXS03050054.wiff	247799002	LER	3/6/2010 6:59	957200	10-1990	2	LANL	USE	S
EXS03050055.wiff	247799003	LER	3/6/2010 7:15	957200	10-1990	2	LANL	USE	S
EXS03050056.wiff	247799004	LER	3/6/2010 7:31	957200	10-1990	2	LANL	USE	S
EXS03050057.wiff	247799005	LER	3/6/2010 7:46	957200	10-1990	2	LANL	USE	S
EXS03050058.wiff	247799006	LER	3/6/2010 8:02	957200	10-1990	2	LANL	USE	S
EXS03050059.wiff	247799007	LER	3/6/2010 8:18	957200	10-1990	2	LANL	USE	S
EXS03050060.wiff	WXXCCV	LER	3/6/2010 8:34			1		USE	C
EXS03050061.wiff	XIBLK07	LER	3/6/2010 8:49			1		USE	B
EXS03050062.wiff	WXXCRI	LER	3/6/2010 9:05			1		USE	C
EXS03050063.wiff	247799008	LER	3/6/2010 9:21	957200	10-1990	2	LANL	USE	S
EXS03050064.wiff	247799009	LER	3/6/2010 9:36	957200	10-1990	2	LANL	USE	S
EXS03050065.wiff	247799010	LER	3/6/2010 9:52	957200	10-1990	2	LANL	USE	S
EXS03050066.wiff	WXXCCV	LER	3/6/2010 10:08			1		USE	C
EXS03050067.wiff	XIBLK08	LER	3/6/2010 10:23			1		USE	B

EXS03050068.wiff	WXXCRI	LER	3/6/2010 10:39	952706	10-1758	1	LANL	USE
EXS03050069.wiff	1202041953	LER	3/6/2010 10:55	952706	10-1758	2	LANL	USE
EXS03050070.wiff	1202041954	LER	3/6/2010 11:11	952706	10-1758	2	LANL	USE
EXS03050071.wiff	246866002	LER	3/6/2010 11:26	952706	10-1758	2	LANL	USE
EXS03050072.wiff	1202041955	LER	3/6/2010 11:42	952706	10-1758	2	LANL	USE
EXS03050073.wiff	1202041956	LER	3/6/2010 11:58	952706	10-1758	2	LANL	USE
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EXS03050075.wiff	246866004	LER	3/6/2010 12:29	952706	10-1758	2	LANL	USE
EXS03050076.wiff	246866005	LER	3/6/2010 12:45	952706	10-1758	2	LANL	USE
EXS03050077.wiff	246866006	LER	3/6/2010 13:01	952706	10-1758	2	LANL	USE
EXS03050078.wiff	246866007	LER	3/6/2010 13:16	952706	10-1758	2	LANL	USE
EXS03050079.wiff	WXXCCV	LER	3/6/2010 13:32			1		USE
EXS03050080.wiff	XIBLK09	LER	3/6/2010 13:48			1		USE
EXS03050081.wiff	WXXCRI	LER	3/6/2010 14:03			1		USE
EXS03050082.wiff	246866008	LER	3/6/2010 14:19	952706	10-1758	2	LANL	USE
EXS03050083.wiff	246866009	LER	3/6/2010 14:35	952706	10-1758	2	LANL	USE
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EXS03050085.wiff	XIBLK10	LER	3/6/2010 15:06			1		USE
EXS03050086.wiff	WXXCRI	LER	3/6/2010 15:22			1		USE
EXS03050087.wiff	1202055082	LER	3/6/2010 15:38	958286	VARIOUS	2	LANL	USE
EXS03050088.wiff	1202055083	LER	3/6/2010 15:53	958286	VARIOUS	2	LANL	USE
EXS03050089.wiff	248040007	LER	3/6/2010 16:09	958286	10-2051	2	LANL	USE
EXS03050090.wiff	1202055084	LER	3/6/2010 16:25	958286	10-2051	2	LANL	USE
EXS03050091.wiff	1202055085	LER	3/6/2010 16:40	958286	10-2051	2	LANL	USE
EXS03050092.wiff	248259006	LER	3/6/2010 16:56	958286	10-2148	2	LANL	USE
EXS03050093.wiff	WXXCCV	LER	3/6/2010 17:12			1		USE
EXS03050094.wiff	XIBLK11	LER	3/6/2010 17:28			1		USE
EXS03050095.wiff	WXXCRI	LER	3/6/2010 17:43			1		USE
EXS03050096.wiff	UXX100210-02.4	LER	3/6/2010 17:59	SCREEN	SOLID	2	O2SI	USE
EXS03050097.wiff	XIBLK12	LER	3/6/2010 18:15			1		USE
EXS03050098.wiff	1202047529	LER	3/6/2010 18:30	955065	VARIOUS	2	LANL	USE
EXS03050099.wiff	1202047530	LER	3/6/2010 18:46	955065	VARIOUS	2	LANL	USE
EXS03050100.wiff	247327002	LER	3/6/2010 19:02	955065	10-1898	2	LANL	USE
EXS03050101.wiff	1202047531	LER	3/6/2010 19:17	955065	10-1898	2	LANL	USE
EXS03050102.wiff	1202047532	LER	3/6/2010 19:33	955065	10-1898	2	LANL	USE
EXS03050103.wiff	247346001	LER	3/6/2010 19:49	955065	10-1911	2	LANL	USE
EXS03050104.wiff	247346002	LER	3/6/2010 20:04	955065	10-1911	2	LANL	USE

EXS03050105.wiff	247346003	LER	3/6/2010 20:20	955065	10-1911	2	LANL	USE	S
EXS03050106.wiff	WXXCCV	LER	3/6/2010 20:36			1		USE	C
EXS03050107.wiff	XIBLK13	LER	3/6/2010 20:52			1		USE	B
EXS03050108.wiff	WXXCRI	LER	3/6/2010 21:07			1		USE	C
EXS03050109.wiff	247346004	LER	3/6/2010 21:23	955065	10-1911	2	LANL	USE	S
EXS03050110.wiff	247346005	LER	3/6/2010 21:39	955065	10-1911	2	LANL	USE	S
EXS03050111.wiff	247346006	LER	3/6/2010 21:54	955065	10-1911	2	LANL	USE	S
EXS03050112.wiff	247346007	LER	3/6/2010 22:10	955065	10-1911	2	LANL	USE	S
EXS03050113.wiff	247346008	LER	3/6/2010 22:26	955065	10-1911	2	LANL	USE	S
EXS03050114.wiff	247358001	LER	3/6/2010 22:41	955065	10-1914	2	LANL	USE	S
EXS03050115.wiff	247358002	LER	3/6/2010 22:57	955065	10-1914	2	LANL	USE	S
EXS03050116.wiff	247358003	LER	3/6/2010 23:13	955065	10-1914	2	LANL	USE	S
EXS03050117.wiff	247358004	LER	3/6/2010 23:29	955065	10-1914	2	LANL	USE	S
EXS03050118.wiff	WXXCCV	LER	3/6/2010 23:44			1		USE	C
EXS03050119.wiff	XIBLK14	LER	3/7/2010 0:00			1		USE	B
EXS03050120.wiff	WXXCRI	LER	3/7/2010 0:16			1		USE	C

uantify Sample Report
EL Laboratories, LLC / Analyst: Michael A. Penny

ataset: C:\MASSLYNX\New_Exp.PRO\031410expA.qld, Time: Mon Mar 15 10:15:48 2010

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ate: 15-Mar-2010

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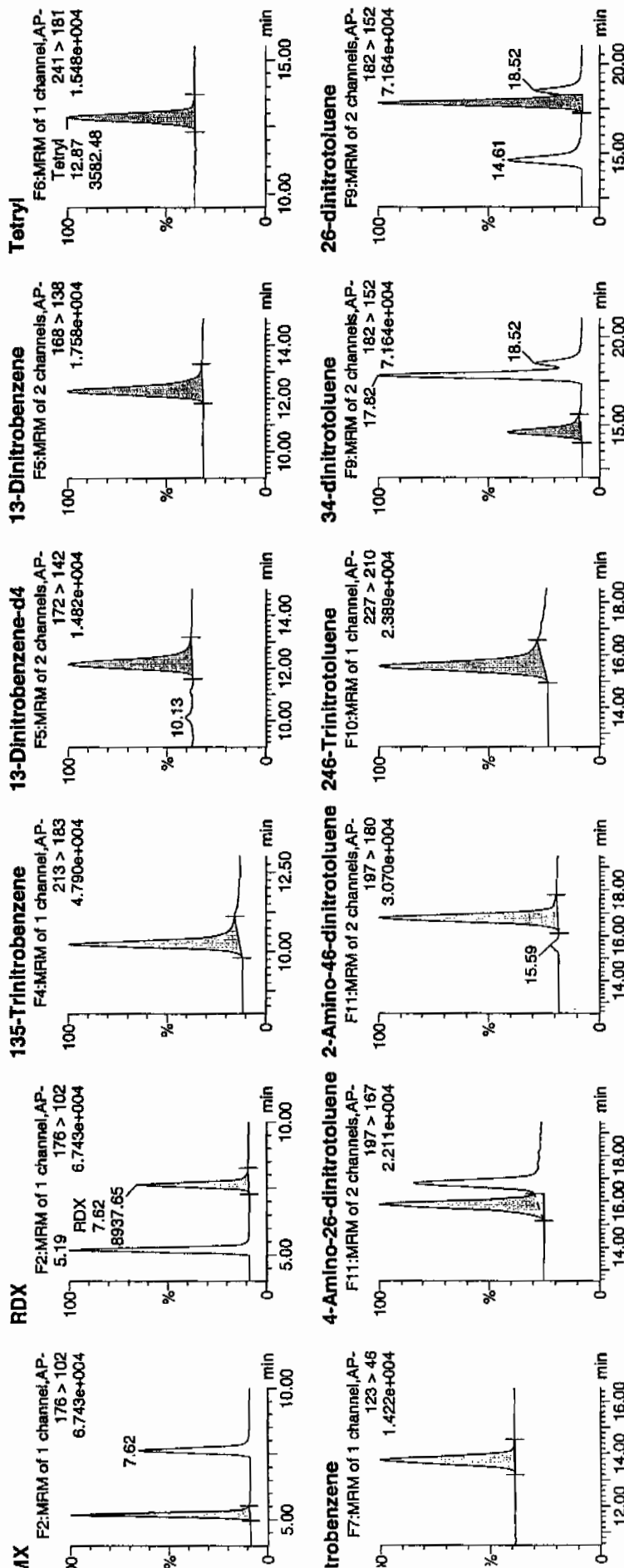
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3/15/10

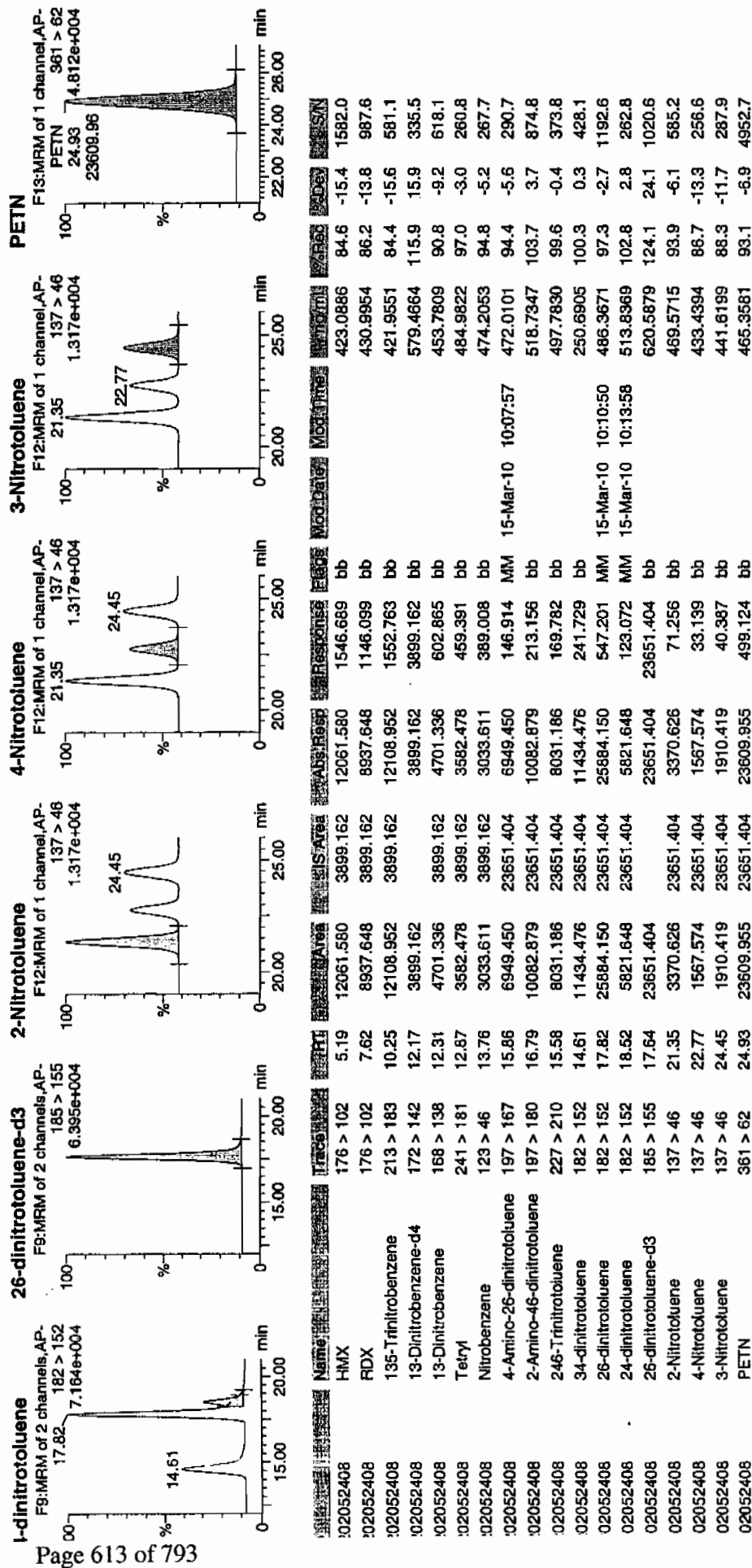
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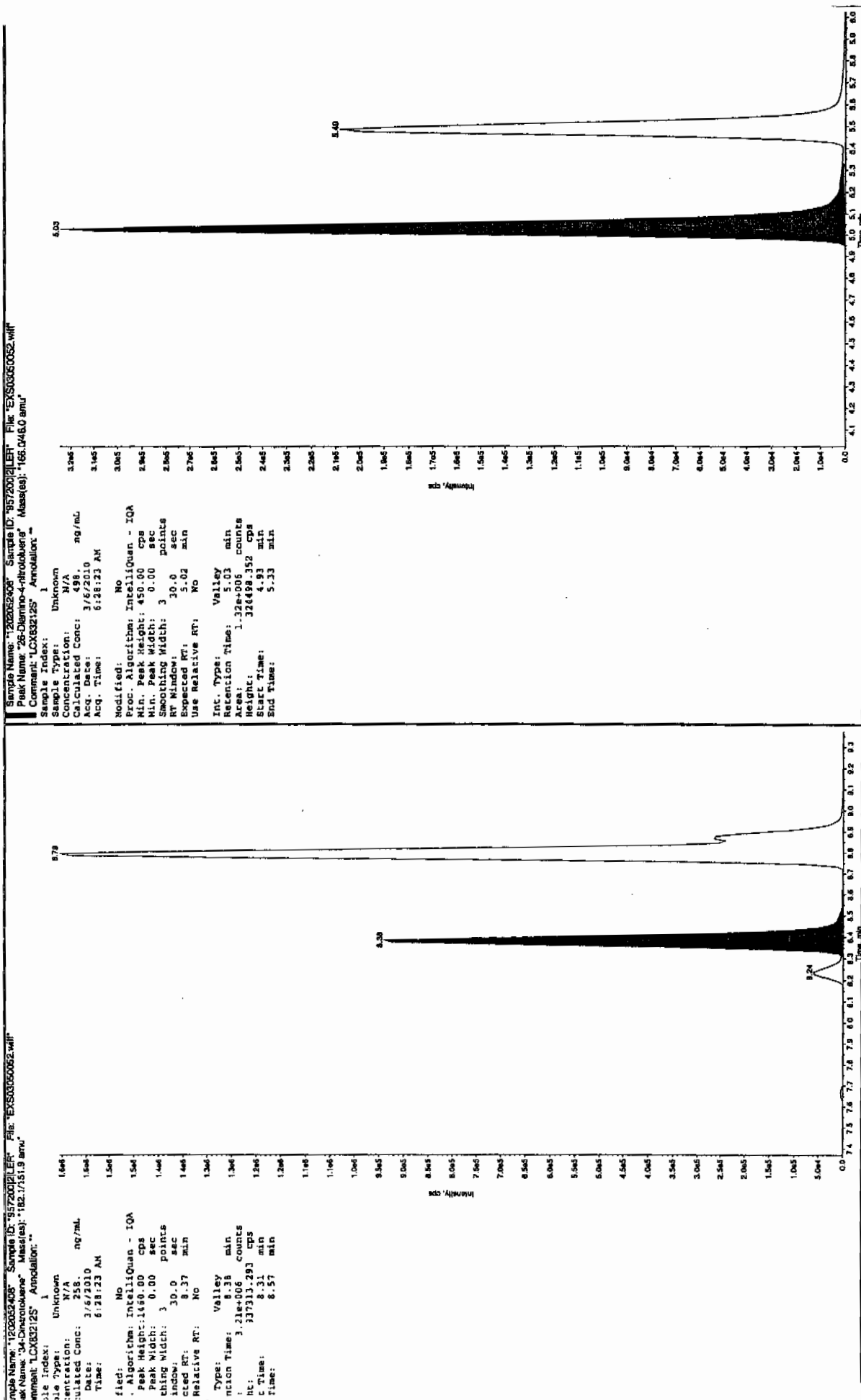
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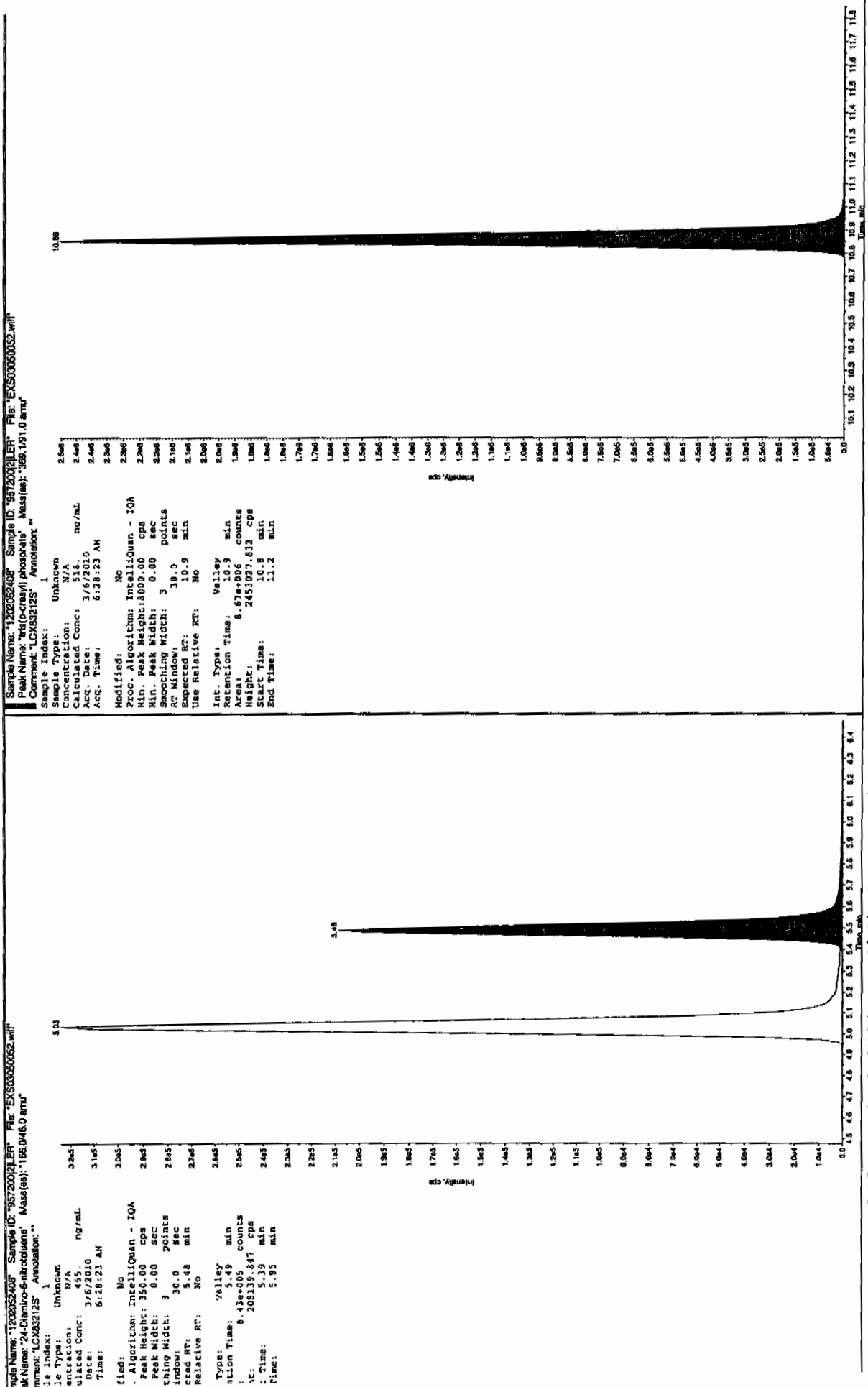


4/11/10 3/16/10

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Quantify Sample Report

3EL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Mar 15 10:16:43 2010, Page 55 of 77

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late: 15-Mar-2010

ime: 04:14:55

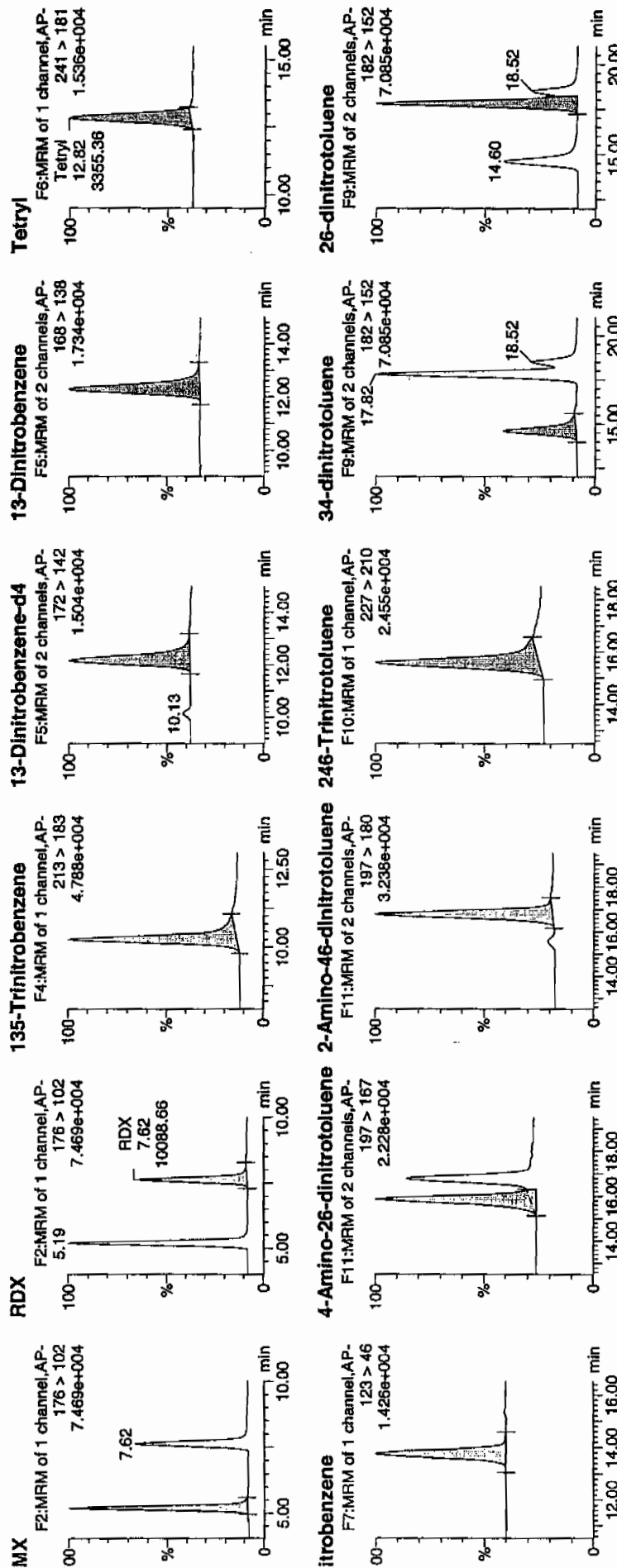
Page 617 of 793

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2/15/10

247799001 N2D / 21

957200 / 5033

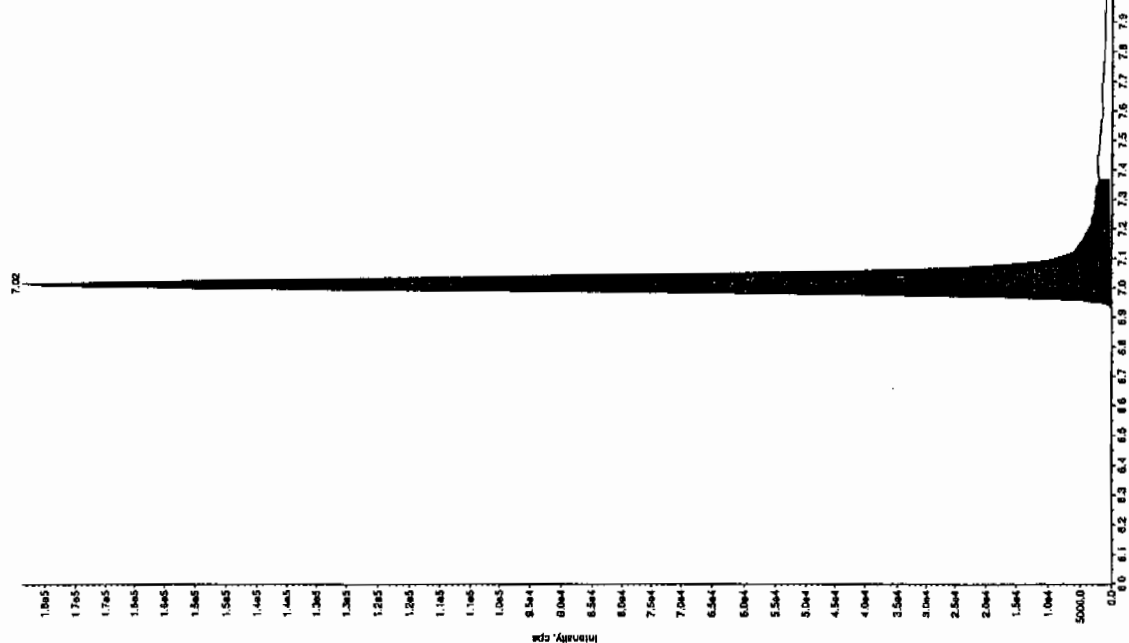


Amw 03/16/10

Scan 3410

Sample Name: "1202020409" Sample ID: "9572021LER" File: "EXS00060001.wif"
 Peak Name: "TATP" Mass(es): "257.2504.9 amu"
 Compound: "LCX83212S" Annotation: "Anhydrous"

ie Index: 1
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 506. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:44:05 AM
 Method: 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: 7.00 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 7.02 min
 Area: 7.26e+005 counts
 Height: 178668.686 cps
 Start Time: 6.91 min
 End Time: 7.37 min

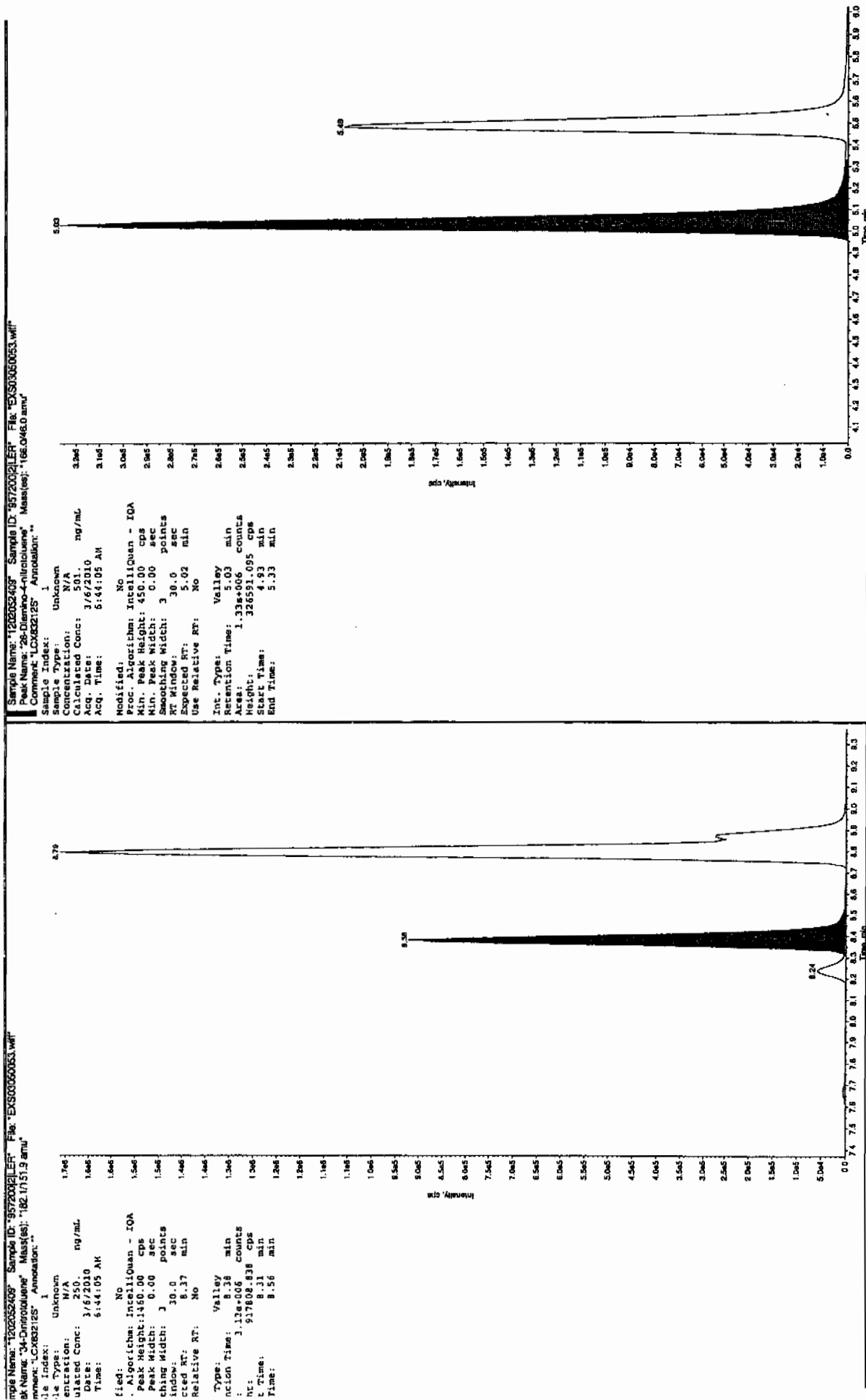


Sample Name: "1202020409" Sample ID: "9572021LER" File: "EXS00060003.wif"
 Peak Name: "TATP" Mass(es): "162.0460 amu"
 Compound: "LCX83212S" Annotation: "Anhydrous"

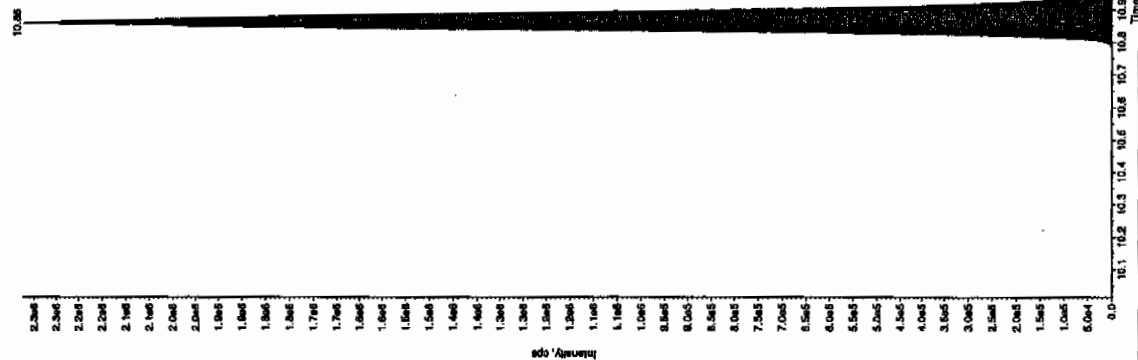
ie Index: 1
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 517. ng/mL
 Acq. Date: 3/6/2010
 Acq. Time: 6:44:05 AM
 Method: NO
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.23 min
 Use Relative RT: No
 Type: Valley
 Retention Time: 8.25 min
 Area: 4.21e+006 counts
 Height: 1116811.816 cps
 Start Time: 8.17 min
 End Time: 8.34 min



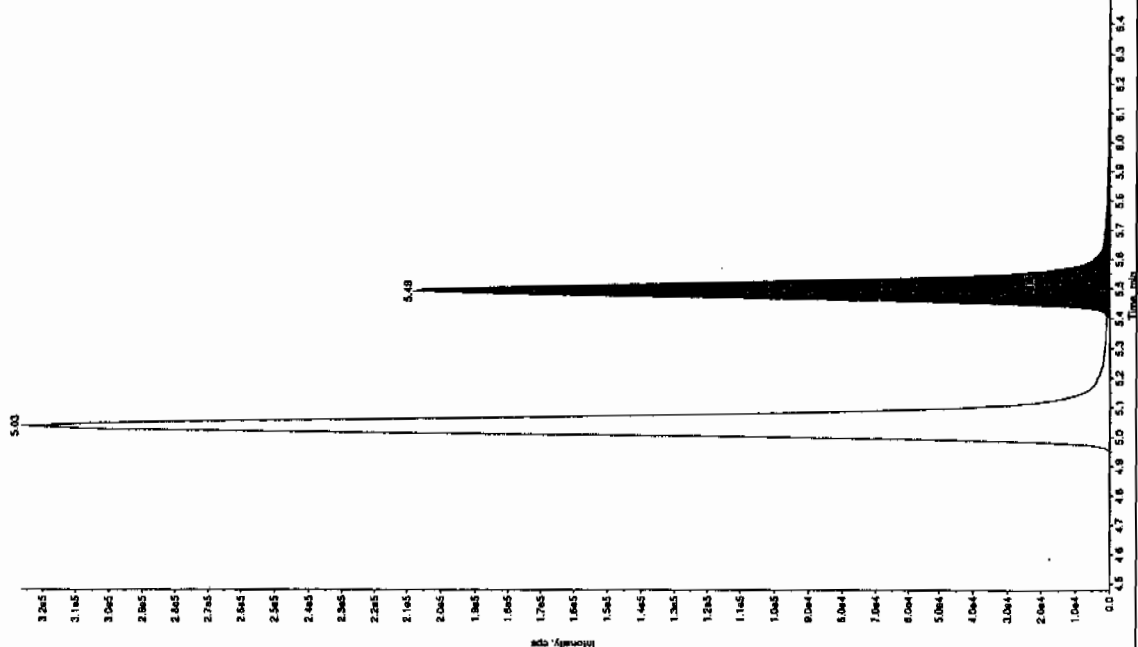
Amu 03/09/10



J. SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



Sample ID:	Unknown	Concentration:	N/A	ng/mL
Sample Type:	Unknown	Calculated Conc:	3/6720.0	
Acq. Date:	3/6720.0	Acq. Time:	6:44:05 AM	
Modified:	No	Proc. Algorithm:	IntelliQuan - IQA	
Min. Peak Height:	8000.00	Cps		
Min. Peak Width:	3.00	sec		
Smoothing Width:	3	points		
RT Window:	10.0	sec		
Expected RT:	10.5	min		
Use Relative RT:	No			
Int. Type:	Valley			
Retention Time:	10.9	min		
Area:	8.51e+006	counts		
Height:	232197.705	cps		
Start Time:	10.8	min		
End Time:	11.2	min		



Sample Name:	Unknown	Concentration:	N/A	mg/mL
Lot:		Calculated Conc:	457.	
Date:	3/6/2010	Time:	6:44:05 AM	
Operator:				
Method:				
File:				
Notes:				
Results:				
Peak 1:				
Retention Time:	5.49 min	Concentration:	5.47e+005 cps	
Peak 2:				
Retention Time:	207559.197 min	Concentration:	5.41 min	
Peak 3:				
Retention Time:	6.10 min	Concentration:	6.10 min	

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1982**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 958180
Prep Batch Number: 958178

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247791002	RE15-10-8317
247791003	RE15-10-8319
247791004	RE15-10-8316
247791005	RE15-10-8326
247791006	RE15-10-8318
1202054828	Method Blank (MB)
1202054829	Laboratory Control Sample (LCS)
1202054830	247791002(RE15-10-8317) Matrix Spike (MS)
1202054831	247791002(RE15-10-8317) 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

Sample 247791002 (RE15-10-8317) was selected for the matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD 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 for the MS and MSD are from the same analytical column as the parent sample.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VII 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: Jimmi Cao

Date: 3/22/10

Roadmap for LANL 10-1982 PCB

This roadmap was analyzed by yip00818 on 03-02-2010, 09:51.

This roadmap was reviewed by jcn01212 on 03-02-2010, 15:01.

This roadmap was packaged by yml on 03-20-2010, 08:56.

This roadmap was validated by jim01140 on 03-22-2010, 09:02.

Front Sample Column

exclude	manual	datafile	sampleid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdlai/030110.b057f5701.d	247791002	sample	01-MAR-2010	16:25	10-1982.sub	RE15-10-8317	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b060f6001.d	247791003	sample	01-MAR-2010	17:02	10-1982.sub	RE15-10-8319	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b061f6101.d	247791004	sample	01-MAR-2010	17:15	10-1982.sub	RE15-10-8316	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b062f6201.d	247791005	sample	01-MAR-2010	17:28	10-1982.sub	RE15-10-8326	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b063f6301.d	247791006	sample	01-MAR-2010	17:40	10-1982.sub	RE15-10-8318	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	sampleid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdlai/030110.b057f5701.d	247791002	sample	01-MAR-2010	16:25	10-1982.sub	RE15-10-8317	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b060f6001.d	247791003	sample	01-MAR-2010	17:03	10-1982.sub	RE15-10-8319	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b061f6101.d	247791004	sample	01-MAR-2010	17:15	10-1982.sub	RE15-10-8316	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b062f6201.d	247791005	sample	01-MAR-2010	17:28	10-1982.sub	RE15-10-8326	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b063f6301.d	247791006	sample	01-MAR-2010	17:40	10-1982.sub	RE15-10-8318	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	sampleid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdlai/030110.b058f3801-2.d	1202054828	mb	01-MAR-2010	12:33	10-1982.sub	PBLK01	1.00000	958180	
<input type="checkbox"/>	N	/chem/ecdlai/030110.b059f3901-2.d	1202054829	lcs	01-MAR-2010	12:44	10-1982.sub	PBLK01LCS	1.00000	958180	
<input type="checkbox"/>	N	/chem/ecdlai/030110.b058f5801.d	1202054830	ms	01-MAR-2010	16:37	10-1982.sub	RE15-10-8317MS	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b059f5901.d	1202054831	msd	01-MAR-2010	16:50	10-1982.sub	RE15-10-8317MSD	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	sampleid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdlai/030110.b058f3801-2.d	1202054828	mb	01-MAR-2010	12:33	10-1982.sub	PBLK01	1.00000	958180	
<input type="checkbox"/>	N	/chem/ecdlai/030110.b059f3901-2.d	1202054829	lcs	01-MAR-2010	12:44	10-1982.sub	PBLK01LCS	1.00000	958180	
<input type="checkbox"/>	N	/chem/ecdlai/030110.b058f5801.d	1202054830	ms	01-MAR-2010	16:37	10-1982.sub	RE15-10-8317MS	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ecdlai/030110.b059f5901.d	1202054831	msd	01-MAR-2010	16:50	10-1982.sub	RE15-10-8317MSD	1.00000	958180	UPLOAD BOTH COLUMNS, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00

Matrix: R

Date Received: 02/23/2010 08:50

%Moisture: 4

Client: LANL010

Project: LANL01004

Method: SW846 8082

SOP Ref: GL-OA-E-040

Inst: ECD1A.I

Dilution: 1

Client ID: RE15-10-8316

Batch ID: 958180

Run Date: 03/01/2010 17:15

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/26/2010 20:38

Aliquot: 30.02 g

Final Volume: 1 mL

Data File: 061f6101.d

Column: 1 CLP1

Level: LOW

061b6101.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791002

Client ID: RE15-10-8317
Batch ID: 958180
Run Date: 03/01/2010 16:25
Prep Date: 02/26/2010 20:38
Data File: 057f5701.d
057b5701.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.55	ug/kg	1.18	3.55	1
11104-28-2	Aroclor-1221	U	3.55	ug/kg	1.18	3.55	1
11141-16-5	Aroclor-1232	U	3.55	ug/kg	1.18	3.55	1
53469-21-9	Aroclor-1242	U	3.55	ug/kg	1.18	3.55	1
12672-29-6	Aroclor-1248	U	3.55	ug/kg	1.18	3.55	1
11097-69-1	Aroclor-1254	U	3.55	ug/kg	1.18	3.55	1
11096-82-5	Aroclor-1260	U	3.55	ug/kg	1.18	3.55	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.12 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 4.5
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8318
Batch ID: 958180
Run Date: 03/01/2010 17:40
Prep Date: 02/26/2010 20:38
Data File: 063f6301.d
063b6301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.3
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	3.44	ug/kg	1.15	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.15	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.15	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.15	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.15	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.15	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.15	3.44	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 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	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10--1982

Matrix Type: SOLID

CAP Column (1) : CLP1

CAP Column (2) : CLP2

Sample ID	Client ID	4CMX 1 %REC #	4CMX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #
1202054828	MB for batch 958178	77	76	92	86
1202054829	LCS for batch 958178	75	75	91	83
247791002	RE15-10-8317	80	80	97	89
1202054830	RE15-10-8317MS	79	79	97	88
1202054831	RE15-10-8317MSD	73	72	90	82
247791003	RE15-10-8319	78	77	95	87
247791004	RE15-10-8316	75	75	85	77
247791005	RE15-10-8326	64	64	71	65
247791006	RE15-10-8318	80	79	92	84

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: 10-1982

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 958178

Matrix: SOIL

Lab Sample ID:1202054829

Instrument: ECD1A.I

Analysis Date: 03/01/2010 12:44

Dilution: 1

Analyst: YS1

Prep Batch ID: 958178

Inj. Vol: 1 uL

Batch ID: 958180

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	27.6	83	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	35.6	107	45-118

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1982

Sample Type: Matrix Spike

Client ID: RE15-10-8317MS

Matrix: R

Lab Sample ID:1202054830

%Moisture: 6.3

Instrument: ECD1A.I

Analysis Date: 03/01/2010 16:37

Dilution: 1

Analyst: YS1

Pren Batch II 958178

Inj. Vol: 1 uL

Batch ID: 958180

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	35.5	0.00 U	30.2	85	23-119
11096-82-5	MS Aroclor-1260	35.5	0.00 U	39.3	111	28-124

PCB

Page 2 of 2

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1982

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8317MSD

Matrix: R

Lab Sample ID:1202054831

%Moisture: 6.3

Instrument: ECD1A.I

Analysis Date: 03/01/2010 16:50

Dilution: 1

Analyst: YS1

Pren Batch ID: 958178

Inj. Vol: 1 uL

Batch ID: 958180

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	35.6	0.00	U	28.0	79	23-119	8 0-28
11096-82-5	MSD Aroclor-1260	35.6	0.00	U	37.0	104	28-124	6 0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1982	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 958178	Instrument ID:	ECD1A.I_2	Data File:	038b3801-1.d
Lab Sample ID:	1202054828		ECD1A.I_1		038f3801-1.d
Column:	CLP2	Prep Date:	02/26/2010 20:38	Analyzed:	03/01/10 12:33
	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 958178	1202054829	039f3901-1.d 039b3901-1.d	03/01/10	1244
02 RE15-10-8317	247791002	057f5701.d 057b5701.d	03/01/10	1625
03 RE15-10-8317MS	1202054830	058f5801.d 058b5801.d	03/01/10	1637
04 RE15-10-8317MSD	1202054831	059f5901.d 059b5901.d	03/01/10	1650
05 RE15-10-8319	247791003	060f6001.d	03/01/10	1702
06 RE15-10-8319	247791003	060b6001.d	03/01/10	1703
07 RE15-10-8316	247791004	061f6101.d 061b6101.d	03/01/10	1715
08 RE15-10-8326	247791005	062f6201.d 062b6201.d	03/01/10	1728
09 RE15-10-8318	247791006	063f6301.d 063b6301.d	03/01/10	1740

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791004

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 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	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/061f6101.d

Lab Smp Id: 247791004

Client Smp ID: RE15-10-8316

Inj Date : 01-MAR-2010 17:15

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247791004|1|

Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8316|||

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 61

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.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	4.01680	% 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			
1.918	1.919	-0.001	64661782	150.154	5.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.223	5.227	-0.004	52045769	169.371	5.9	80.00- 120.00	100.00	

Data File: /chem/ecdda.i/030110.b/061f6101.d

Date: 01-MAR-2010 17:15

Client ID: RE15-10-8316

Sample Info: 124779100411

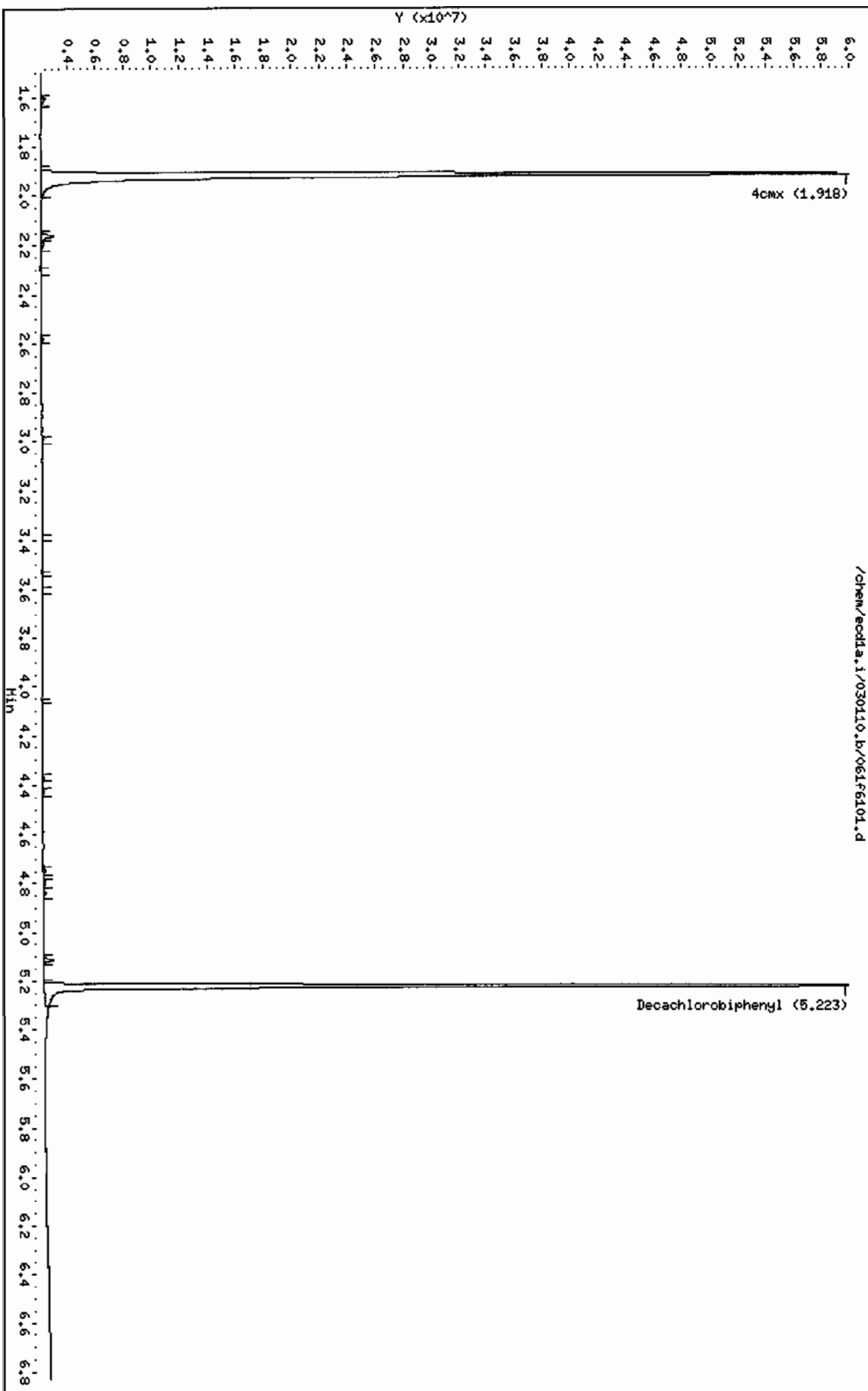
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1.i/030110.b/061b6101.d
Report Date: 02-Mar-2010 06:42

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/061b6101.d
Lab Smp Id: 247791004 Client Smp ID: RE15-10-8316
Inj Date : 01-MAR-2010 17:15
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247791004|1|
Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8316|||
Comment :
Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.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	4.01680	% 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						
2.276	2.278	-0.002	44526961	149.722	5.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.919	5.923	-0.004	32579120	154.040	5.3 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/061b6101.d

Date : 01-MAR-2010 17:15

Client ID: RE15-10-8316

Sample Info: 124779100411

Volume Injected (uL): 1.0

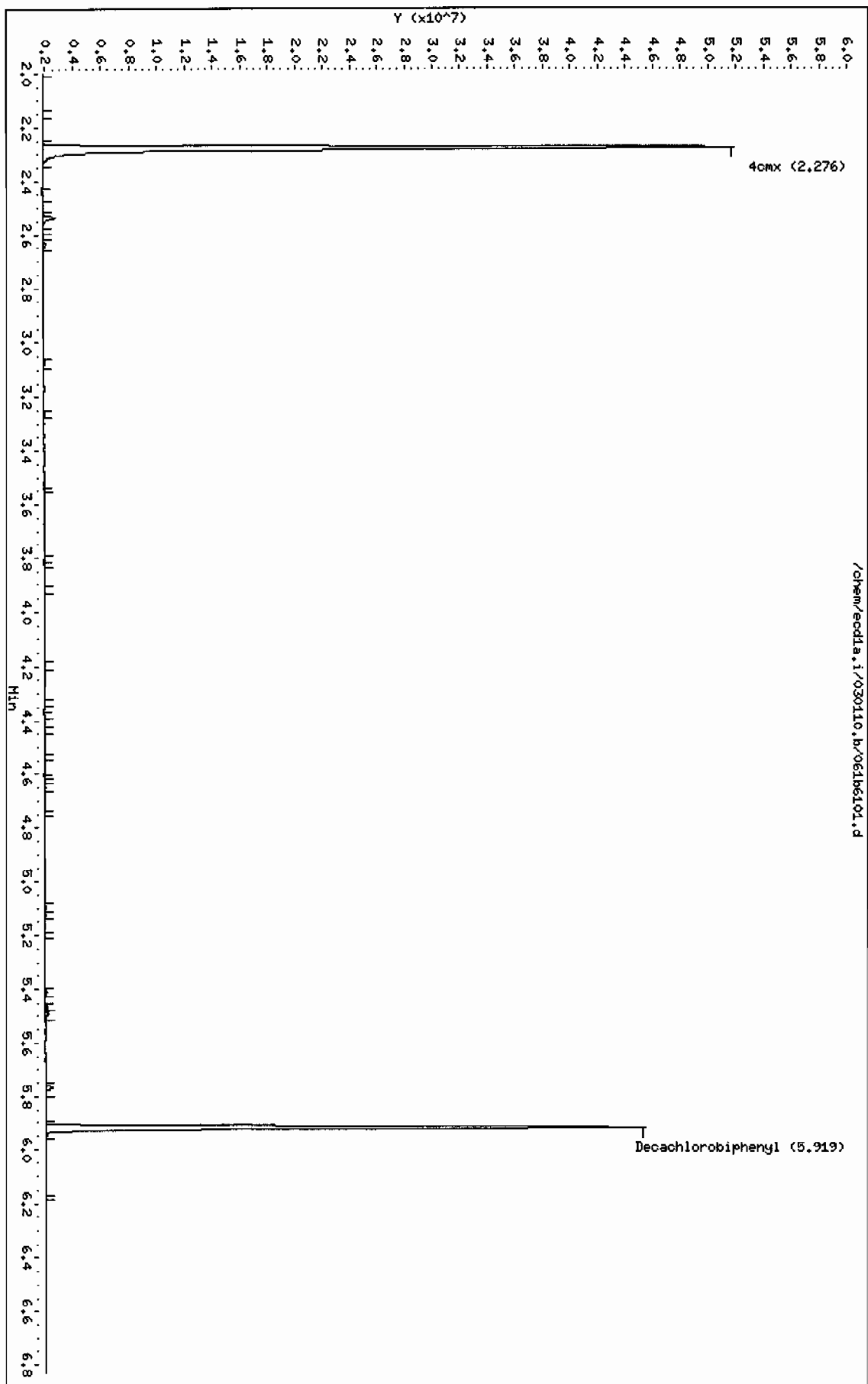
Column phase: CLP2

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Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791002

Client ID: RE15-10-8317
Batch ID: 958180
Run Date: 03/01/2010 16:25
Prep Date: 02/26/2010 20:38
Data File: 057f5701.d
057b5701.d

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

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

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.55	ug/kg	1.18	3.55	1
11104-28-2	Aroclor-1221	U	3.55	ug/kg	1.18	3.55	1
11141-16-5	Aroclor-1232	U	3.55	ug/kg	1.18	3.55	1
53469-21-9	Aroclor-1242	U	3.55	ug/kg	1.18	3.55	1
12672-29-6	Aroclor-1248	U	3.55	ug/kg	1.18	3.55	1
11097-69-1	Aroclor-1254	U	3.55	ug/kg	1.18	3.55	1
11096-82-5	Aroclor-1260	U	3.55	ug/kg	1.18	3.55	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/057f5701.d

Lab Smp Id: 247791002

Client Smp ID: RE15-10-8317

Inj Date : 01-MAR-2010 16:25

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247791002|1|

Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8317|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 57

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	6.34340	% Moisture

Cpnd Variable Local Compound Variable

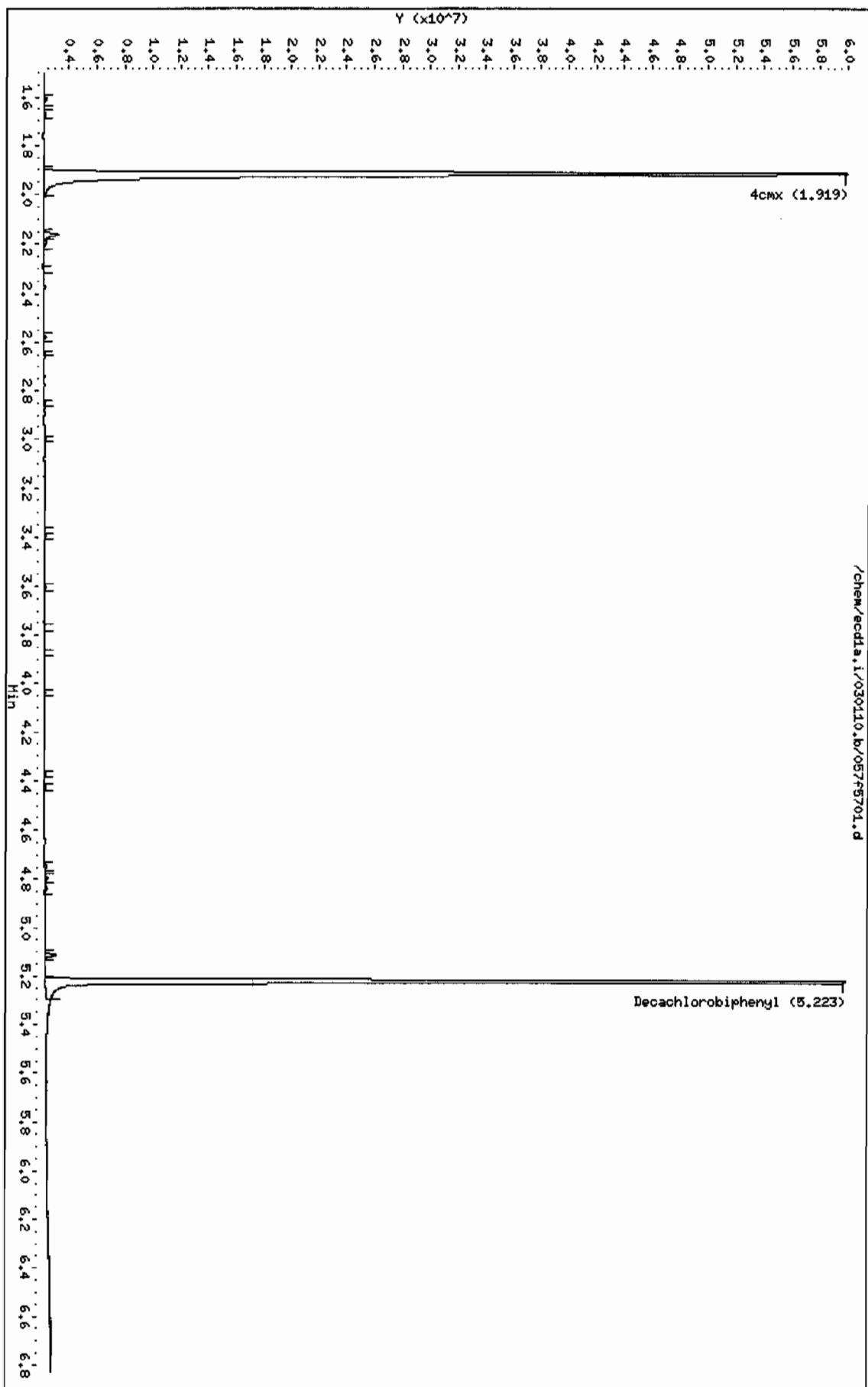
CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.919	1.919	0.000	69324707	160.982	5.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.223	5.227	-0.004	59761651	194.480	6.9	80.00- 120.00	100.00

Data File: /chem/ecdda.i/030110.b/057f5701.d
Date: 01-MAR-2010 16:25
Client ID: REIS-10-8317
Sample Info: 124779100211
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

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Data File: /chem/ecdla.i/030110.b/057b5701.d
Report Date: 02-Mar-2010 06:40

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/057b5701.d
Lab Smp Id: 247791002 Client Smp ID: RE15-10-8317
Inj Date : 01-MAR-2010 16:25
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247791002|1|
Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8317|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 57
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	6.34340	% 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						
2.277	2.278	-0.001	47673591 160.303	5.7	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.919	5.923	-0.004	37496682 177.291	6.3	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/057b5701.d

Date: 01-MAR-2010 16:25

Client ID: REIS-10-8317

Sample Info: 124779100211

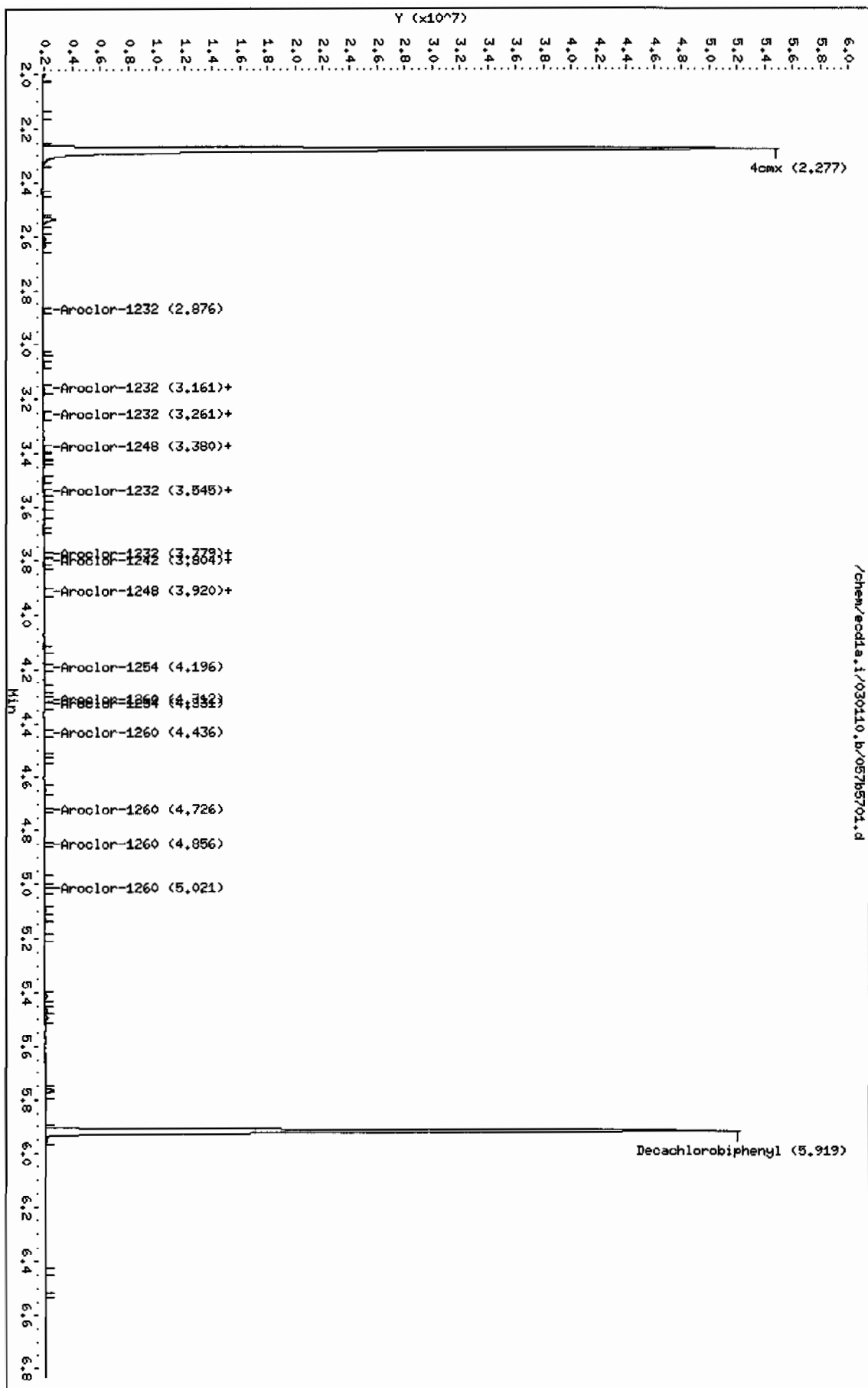
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 247791006

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8082
 Inst: ECD1A.I
 Analyst: YS1
 Aliquot: 30.12 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 %Moisture: 4.5
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-8318
 Batch ID: 958180
 Run Date: 03/01/2010 17:40
 Prep Date: 02/26/2010 20:38
 Data File: 063f6301.d
 063b6301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.48	ug/kg	1.16	3.48	1
11104-28-2	Aroclor-1221	U	3.48	ug/kg	1.16	3.48	1
11141-16-5	Aroclor-1232	U	3.48	ug/kg	1.16	3.48	1
53469-21-9	Aroclor-1242	U	3.48	ug/kg	1.16	3.48	1
12672-29-6	Aroclor-1248	U	3.48	ug/kg	1.16	3.48	1
11097-69-1	Aroclor-1254	U	3.48	ug/kg	1.16	3.48	1
11096-82-5	Aroclor-1260	U	3.48	ug/kg	1.16	3.48	1

Data File: /chem/ecdl1a.i/030110.b/063f6301.d
Report Date: 02-Mar-2010 06:43

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/063f6301.d

Lab Smp Id: 247791006

Client Smp ID: RE15-10-8318

Inj Date : 01-MAR-2010 17:40

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247791006|1|

Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8318|||

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 63

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.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	30.12000	Weight of sample extracted (g)
M	4.54580	% Moisture

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.918	1.919	-0.001	68495450	159.056	5.5	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.223	5.227	-0.004	56537994	183.989	6.4	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030110.b/063f6301.d

Date: 01-MAR-2010 17:40

Client ID: RE15-10-8318

Sample Info: 1247791006111

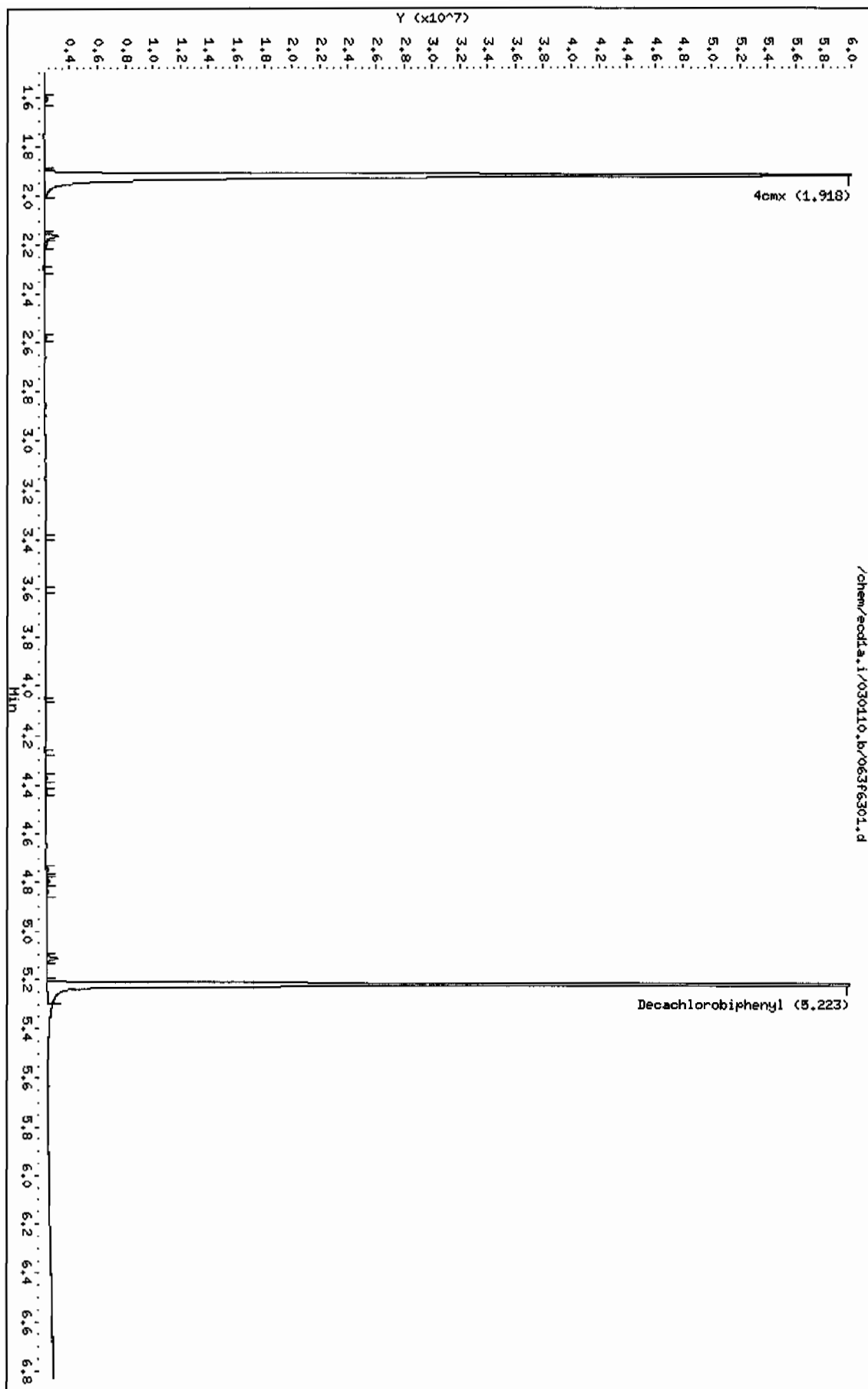
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdla.i/030110.b/063b6301.d
 Report Date: 02-Mar-2010 06:43

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/063b6301.d

Lab Smp Id: 247791006

Client Smp ID: RE15-10-8318

Inj Date : 01-MAR-2010 17:40

Operator : YS1

Inst ID: ecdla.i

Smp Info : |247791006|1|

Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8318|||

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:40 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 63

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.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	30.12000	Weight of sample extracted (g)
M	4.54580	% Moisture

Cpnd Variable

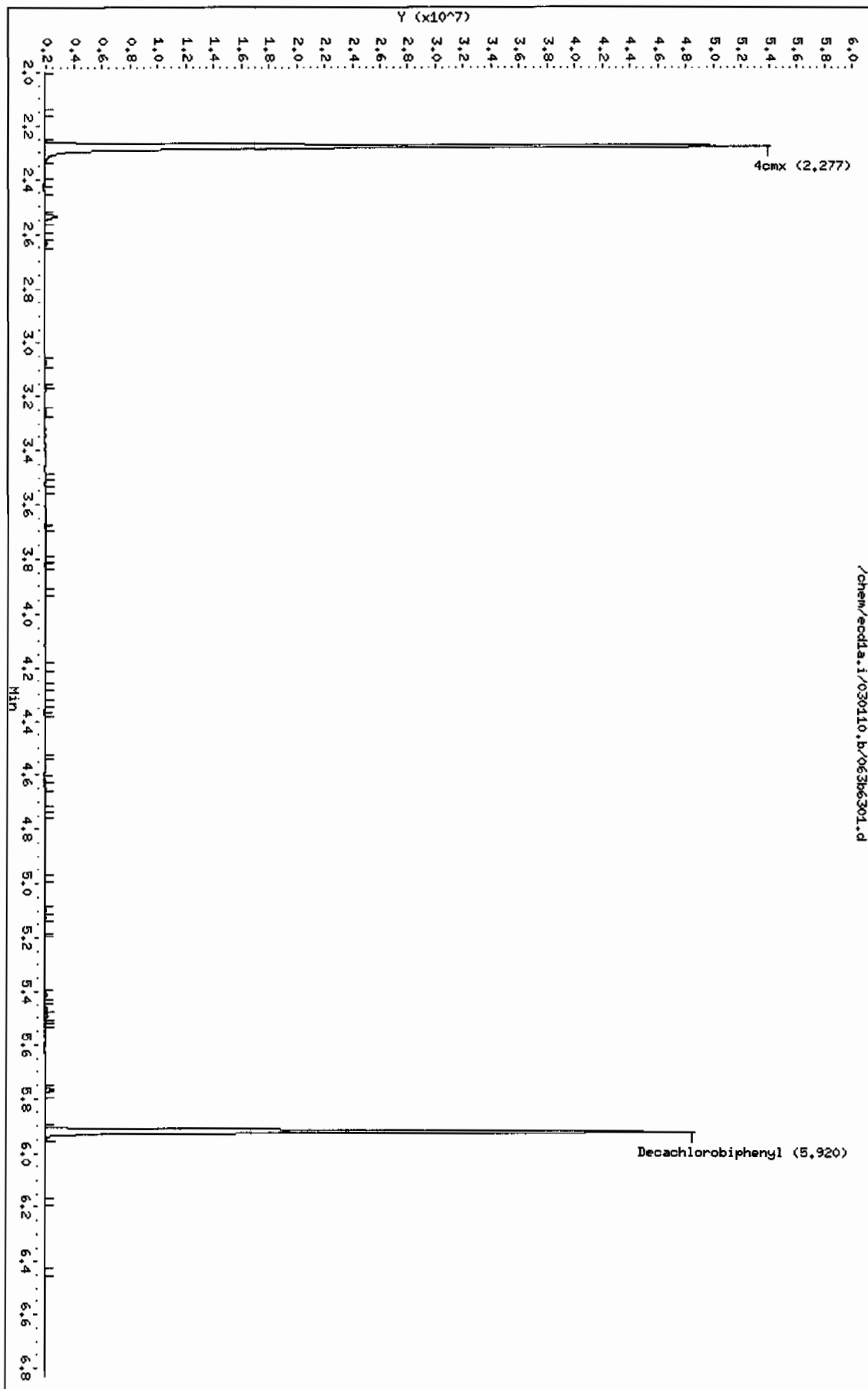
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
§ 11 4cmx						
				CAS #: 877-09-8		
2.277	2.278	-0.001	47108965 158.404	5.5	80.00- 120.00	100.00

§ 12 Decachlorobiphenyl						
				CAS #: 2051-24-3		
5.920	5.923	-0.003	35481474 167.762	5.8	80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/063b6301.d
Date : 01-MAR-2010 17:40
Client ID: RE15-10-8318
Sample Info: 1247791006111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791003

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.3
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	3.44	ug/kg	1.15	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.15	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.15	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.15	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.15	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.15	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.15	3.44	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/060f6001.d

Lab Smp Id: 247791003

Client Smp ID: RE15-10-8319

Inj Date : 01-MAR-2010 17:02

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |247791003|1|

Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8319|||

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:40 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 60

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	3.28180	% Moisture

Cpnd Variable

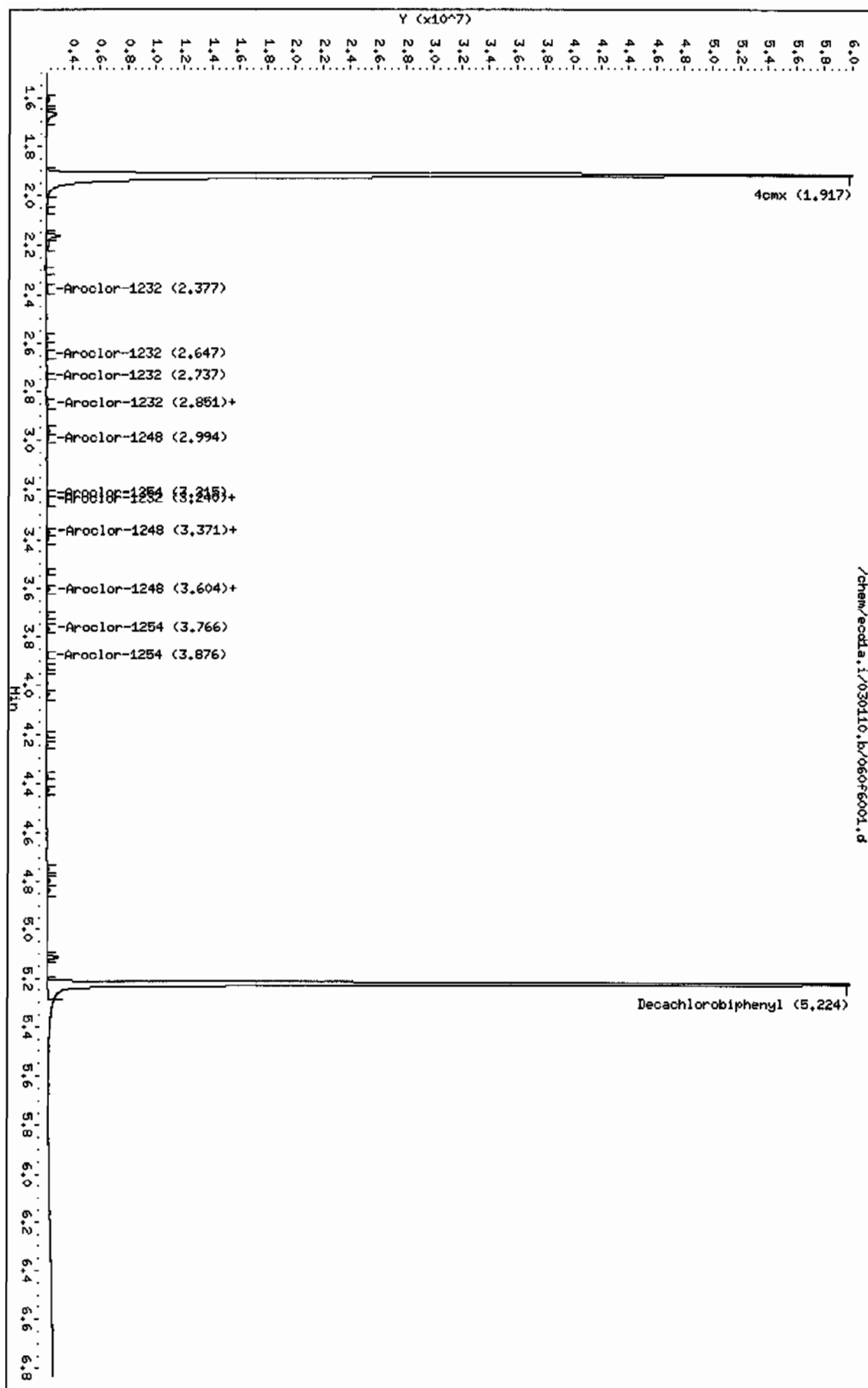
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.917	1.919	-0.002	66918083 155.393	5.4	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.224	5.227	-0.003	58347822 189.879	6.5	80.00- 120.00	100.00	

Data File: /chem/eodla.i/030110.b/060f6001.d
 Date: 01-MAR-2010 17:02
 Client ID: RE15-10-8319
 Sample Info: 1247791003111
 Volume Injected (uL): 1.0
 Column Phase: CLP1

Instrument: eodla.i
 Operator: YSL
 Column diameter: 0.25



Data File: /chem/ecdla.i/030110.b/060b6001.d
Report Date: 02-Mar-2010 06:42

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/060b6001.d
Lab Smp Id: 247791003 Client Smp ID: RE15-10-8319
Inj Date : 01-MAR-2010 17:03
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247791003|1|
Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8319|
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	3.28180	% Moisture

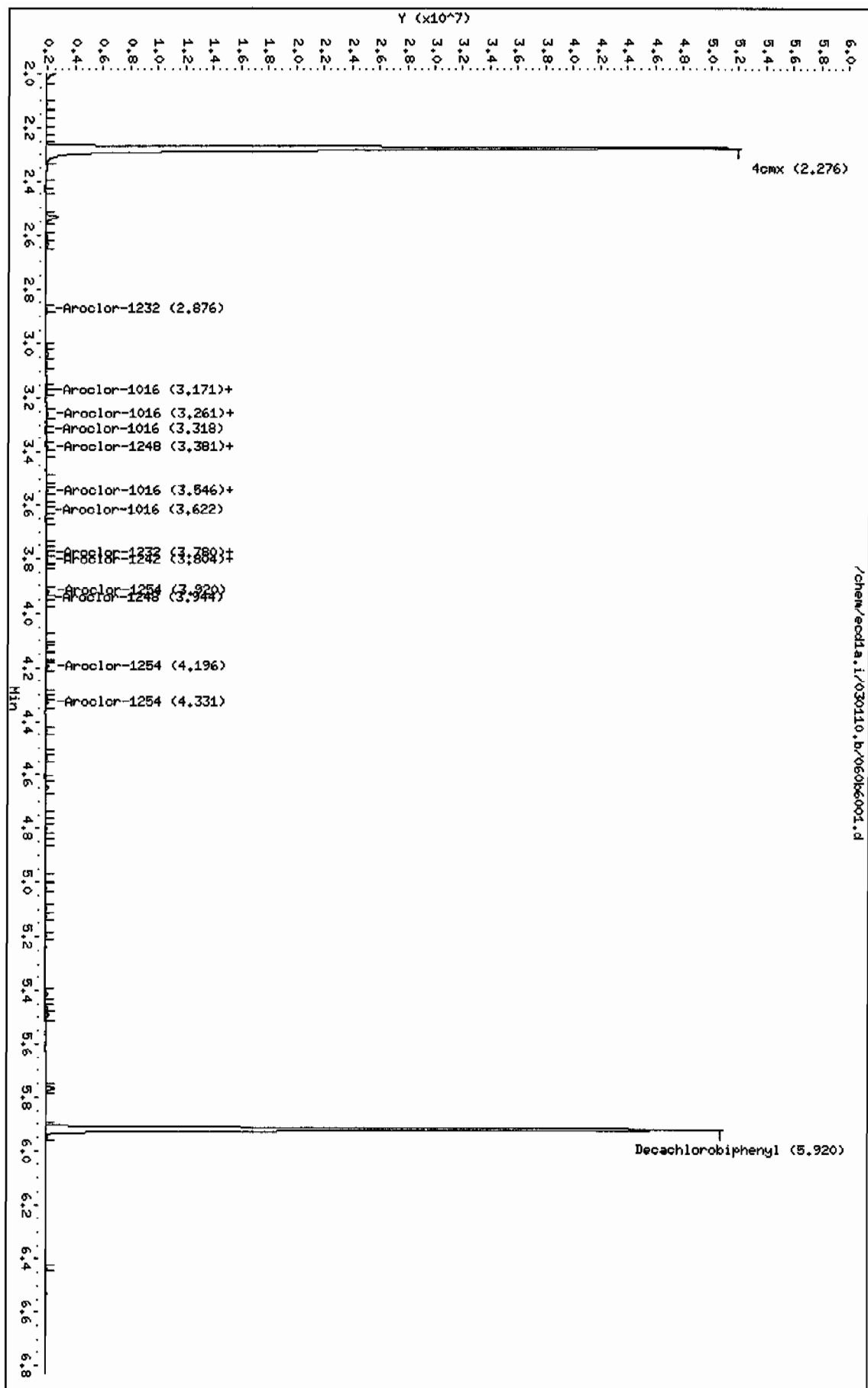
Cpnd Variable Local Compound Variable

		CONCENTRATIONS							
		ON-COL	FINAL						
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO			
==	=====	=====	=====	=====	=====	=====		=====	
\$ 11 4cmx CAS #: 877-09-8									
2.276	2.278	-0.002	46003548	154.687	5.3 80.00- 120.00	100.00			

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3									
5.920	5.923	-0.003	36794188	173.969	6.0 80.00- 120.00	100.00			

Data File: /chem/eod1a.i/030110.b/0606001.d
 Date : 01-MAR-2010 17:03
 Client ID: REL5-10-8319
 Sample Info: 1247791003111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod1a.i
 Operator: YSI
 Column diameter: 0.25



PCB

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Certificate of Analysis

Sample Summary

SDG Number: 10-1982
Lab Sample ID: 247791005

Date Collected: 02/17/2010 12:00
Date Received: 02/23/2010 08:50

Matrix: R
%Moisture: 4

Client ID: RE15-10-8326
Batch ID: 958180
Run Date: 03/01/2010 17:28
Prep Date: 02/26/2010 20:38
Data File: 062f6201.d
062b6201.d

Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Project: LANL01004
SOP Ref: GI-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	3.47	ug/kg	1.16	3.47	1
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	1
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	1
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	1
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	1
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	1
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/062f6201.d
Lab Smp Id: 247791005 Client Smp ID: RE15-10-8326
Inj Date : 01-MAR-2010 17:28
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |247791005|1|
Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8326|||
Comment :
Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.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	4.01310	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
11	4cmx						
1.917	1.919	-0.002	54981413	127.675	4.4	80.00- 120.00	100.00
12	Decachlorobiphenyl						
5.223	5.227	-0.004	43770700	142.441	4.9	80.00- 120.00	100.00

Data File: /chem/ecdl.a.i/030110.b/062f6201.d

Date: 01-MAR-2010 17:28

Client ID: REL5-10-8326

Sample Info: 1247791005111

Volume Injected (uL): 1.0

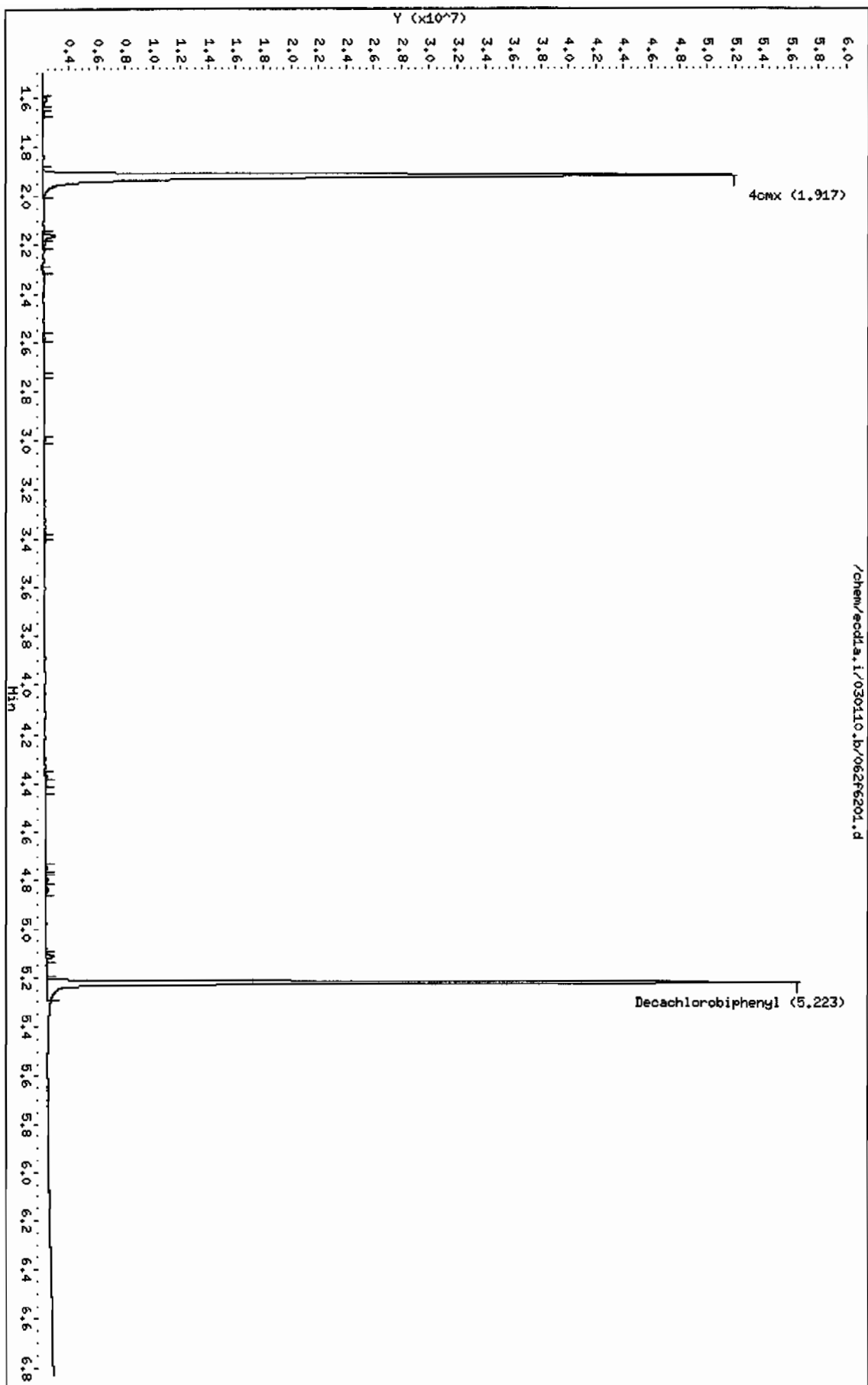
Column Phase: CLP1

Page 1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdla.i/030110.b/062b6201.d
Report Date: 02-Mar-2010 06:43

Page 1

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/062b6201.d
Lab Smp Id: 247791005 Client Smp ID: RE15-10-8326
Inj Date : 01-MAR-2010 17:28
Operator : YS1 Inst ID: ecdla.i
Smp Info : |247791005|1|
Misc Info : |ECD82P_1S|958180|SVA|LANL|SOIL|RE15-10-8326|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:40 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.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	30.02000	Weight of sample extracted (g)
M	4.01310	% Moisture

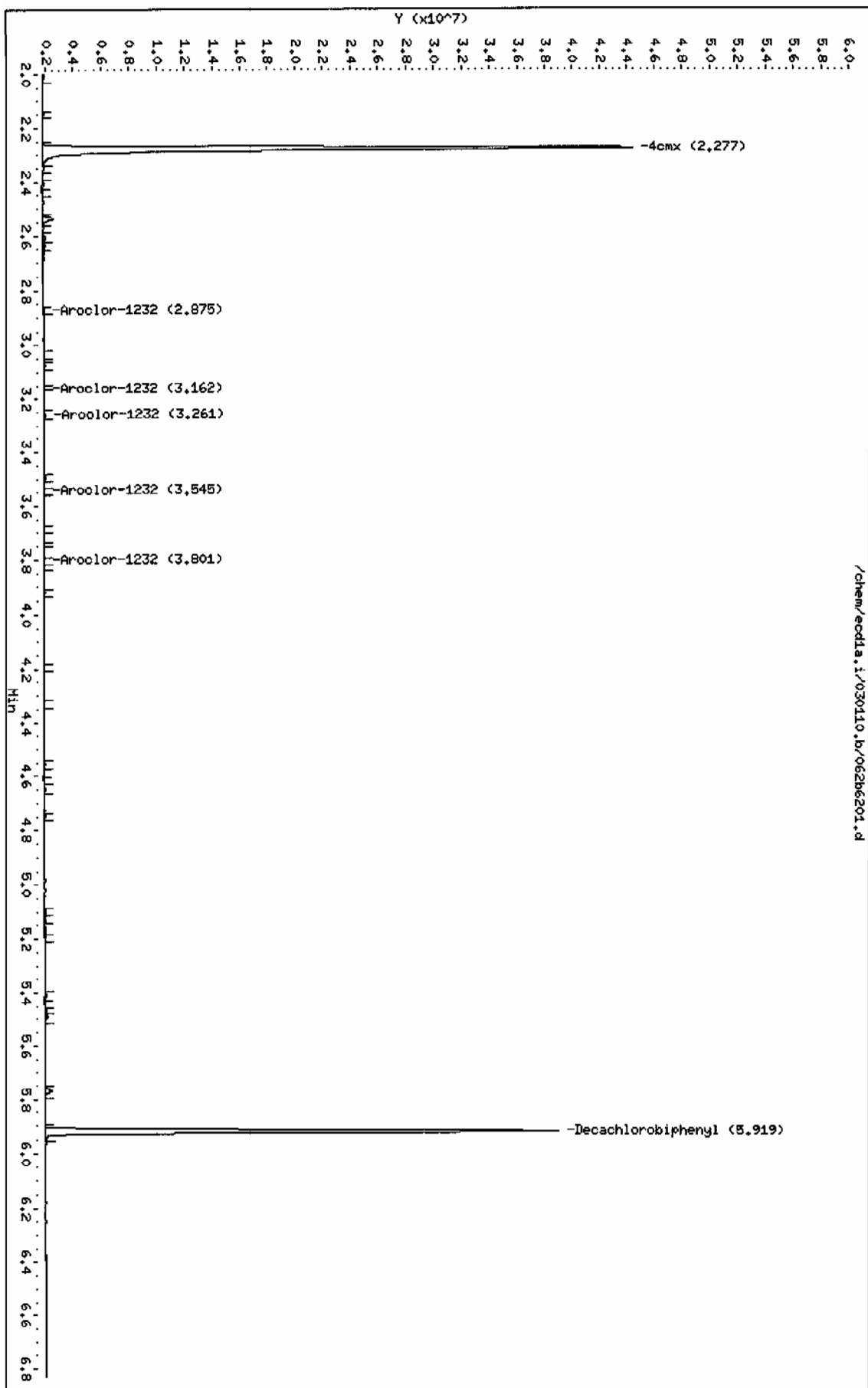
Cpnd Variable Local Compound Variable

		CONCENTRATIONS					
		ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8							
2.277	2.278	-0.001	38172633	128.356	4.4 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.919	5.923	-0.004	27564718	130.331	4.5 80.00- 120.00	100.00	

Data File: /chem/eodla.i/030110.b/062b6201.d
Date : 01-MAR-2010 17:28
Client ID: RE15-10-8326
Sample Info: 1247791005111
Volume Injected (ul): 1.0
Column phase: CLP2

Instrument: eodla.i
Operator: YSI
Column diameter: 0.25



STANDARDS DATA

Report Date: 02-Mar-2010 09:17

Calibration History

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-FEB-2010 11:26	AR1268	/chem/ecdl1a.i/022210.b/032f3201.d
22-FEB-2010 10:23	AR1248	/chem/ecdl1a.i/022210.b/026f2601.d
22-FEB-2010 09:20	AR1242	/chem/ecdl1a.i/022210.b/020f2001.d
22-FEB-2010 08:16	AR1254	/chem/ecdl1a.i/022210.b/014f1401.d
22-FEB-2010 07:13	AR1660	/chem/ecdl1a.i/022210.b/008f0801.d
Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecdl1a.i/022210.b/033f3301.d
22-FEB-2010 10:33	AR1248	/chem/ecdl1a.i/022210.b/027f2701.d
22-FEB-2010 09:30	AR1242	/chem/ecdl1a.i/022210.b/021f2101.d
22-FEB-2010 08:27	AR1254	/chem/ecdl1a.i/022210.b/015f1501.d
22-FEB-2010 07:24	AR1660	/chem/ecdl1a.i/022210.b/009f0901.d
Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecdl1a.i/022210.b/034f3401.d
22-FEB-2010 10:44	AR1248	/chem/ecdl1a.i/022210.b/028f2801.d
22-FEB-2010 09:41	AR1242	/chem/ecdl1a.i/022210.b/022f2201.d
22-FEB-2010 08:37	AR1254	/chem/ecdl1a.i/022210.b/016f1601.d
22-FEB-2010 07:34	AR1660	/chem/ecdl1a.i/022210.b/010f1001.d
Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecdl1a.i/022210.b/035f3501.d
22-FEB-2010 11:05	AR1248	/chem/ecdl1a.i/022210.b/030f3001.d
22-FEB-2010 09:51	AR1242	/chem/ecdl1a.i/022210.b/023f2301.d
22-FEB-2010 08:48	AR1254	/chem/ecdl1a.i/022210.b/017f1701.d
22-FEB-2010 07:45	AR1660	/chem/ecdl1a.i/022210.b/011f1101.d
22-FEB-2010 07:03	AR1262	/chem/ecdl1a.i/022210.b/007f0701.d
22-FEB-2010 06:52	AR1221	/chem/ecdl1a.i/022210.b/006f0601.d
22-FEB-2010 06:41	AR1232	/chem/ecdl1a.i/022210.b/005f0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecdl1a.i/022210.b/004f0401.d
Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecdl1a.i/022210.b/036f3601.d
22-FEB-2010 10:54	AR1248	/chem/ecdl1a.i/022210.b/029f2901.d
22-FEB-2010 10:02	AR1242	/chem/ecdl1a.i/022210.b/024f2401.d
22-FEB-2010 08:59	AR1254	/chem/ecdl1a.i/022210.b/018f1801.d
22-FEB-2010 07:55	AR1660	/chem/ecdl1a.i/022210.b/012f1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 23:32 AR1660	/chem/ecdl1a.i/030110.b/091f9101.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 21:26 AR1660	/chem/ecdl1a.i/030110.b/081f8101.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 20:22 AR1660	/chem/ecdl1a.i/030110.b/076f7601.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 17:53 AR1660	/chem/ecdl1a.i/030110.b/064f6401.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 15:59 AR1660	/chem/ecdl1a.i/030110.b/055f5501.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 14:35 AR1660	/chem/ecdl1a.i/030110.b/048f4801.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 12:12 AR1660	/chem/ecdl1a.i/030110.b/036f3601.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 10:48 AR1660	/chem/ecdl1a.i/030110.b/029f2901.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 08:25 AR1660	/chem/ecdl1a.i/030110.b/017f1701.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 07:10 AR1262	/chem/ecdl1a.i/030110.b/010f1001.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:59 AR1221	/chem/ecdl1a.i/030110.b/009f0901.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:49 AR1232	/chem/ecdl1a.i/030110.b/008f0801.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:38 AR1268	/chem/ecdl1a.i/030110.b/007f0701.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:28 AR1660	/chem/ecdl1a.i/030110.b/006f0601.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:17 AR1248	/chem/ecdl1a.i/030110.b/005f0501.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 06:07 AR1242	/chem/ecdl1a.i/030110.b/004f0401.d	
+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+		
01-MAR-2010 05:56 AR1254	/chem/ecdl1a.i/030110.b/003f0301.d	
+-----+-----+-----+		

Ccal Level: 4 , Ccal Amount: 1000		
+=====+		
01-MAR-2010 05:46 AR1660	/chem/ecdl1a.i/030110.b/002f0201.d	
+-----+		+

Report Date: 02-Mar-2010 09:16

Calibration History

Method : /chem/ecd1a.i/030110.b/ECD1-B-8082-022210.m
Start Cal Date: 22-FEB-2010 06:31
End Cal Date : 24-FEB-2010 02:39

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
22-FEB-2010 10:23	AR1248	/chem/ecd1a.i/022210.b/026b2601.d
22-FEB-2010 09:20	AR1242	/chem/ecd1a.i/022210.b/020b2001.d
22-FEB-2010 08:16	AR1254	/chem/ecd1a.i/022210.b/014b1401.d
22-FEB-2010 07:13	AR1660	/chem/ecd1a.i/022210.b/008b0801.d

Cal Level: 2 , Cal Amount: 250.00000		
22-FEB-2010 11:37	AR1268	/chem/ecd1a.i/022210.b/033b3301.d
22-FEB-2010 10:33	AR1248	/chem/ecd1a.i/022210.b/027b2701.d
22-FEB-2010 09:30	AR1242	/chem/ecd1a.i/022210.b/021b2101.d
22-FEB-2010 08:27	AR1254	/chem/ecd1a.i/022210.b/015b1501.d
22-FEB-2010 07:24	AR1660	/chem/ecd1a.i/022210.b/009b0901.d

Cal Level: 3 , Cal Amount: 500.00000		
22-FEB-2010 11:47	AR1268	/chem/ecd1a.i/022210.b/034b3401.d
22-FEB-2010 10:44	AR1248	/chem/ecd1a.i/022210.b/028b2801.d
22-FEB-2010 09:41	AR1242	/chem/ecd1a.i/022210.b/022b2201.d
22-FEB-2010 08:37	AR1254	/chem/ecd1a.i/022210.b/016b1601.d
22-FEB-2010 07:34	AR1660	/chem/ecd1a.i/022210.b/010b1001.d

Cal Level: 4 , Cal Amount: 1000.00000		
22-FEB-2010 11:58	AR1268	/chem/ecd1a.i/022210.b/035b3501.d
22-FEB-2010 11:05	AR1248	/chem/ecd1a.i/022210.b/030b3001.d
22-FEB-2010 09:51	AR1242	/chem/ecd1a.i/022210.b/023b2301.d
22-FEB-2010 08:48	AR1254	/chem/ecd1a.i/022210.b/017b1701.d
22-FEB-2010 07:45	AR1660	/chem/ecd1a.i/022210.b/011b1101.d
22-FEB-2010 07:03	AR1262	/chem/ecd1a.i/022210.b/007b0701.d
22-FEB-2010 06:52	AR1221	/chem/ecd1a.i/022210.b/006b0601.d
22-FEB-2010 06:41	AR1232	/chem/ecd1a.i/022210.b/005b0501.d
22-FEB-2010 06:31	DDTANALOGSTD	/chem/ecd1a.i/022210.b/004b0401.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-FEB-2010 12:08	AR1268	/chem/ecd1a.i/022210.b/036b3601.d
22-FEB-2010 10:54	AR1248	/chem/ecd1a.i/022210.b/029b2901.d
22-FEB-2010 10:02	AR1242	/chem/ecd1a.i/022210.b/024b2401.d
22-FEB-2010 08:59	AR1254	/chem/ecd1a.i/022210.b/018b1801.d
22-FEB-2010 07:55	AR1660	/chem/ecd1a.i/022210.b/012b1201.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 21:26 AR1660	/chem/ecd1a.i/030110.b/081b8101.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 20:22 AR1660	/chem/ecd1a.i/030110.b/076b7601.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 17:53 AR1660	/chem/ecd1a.i/030110.b/064b6401.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 23:32 AR1660	/chem/ecd1a.i/030110.b/091b9101.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 15:59 AR1660	/chem/ecd1a.i/030110.b/055b5501.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 14:35 AR1660	/chem/ecd1a.i/030110.b/048b4801.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 12:12 AR1660	/chem/ecd1a.i/030110.b/036b3601.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 10:48 AR1660	/chem/ecd1a.i/030110.b/029b2901.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:28 AR1660	/chem/ecd1a.i/030110.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 08:25 AR1660	/chem/ecd1a.i/030110.b/017b1701.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 07:10 AR1262	/chem/ecd1a.i/030110.b/010b1001.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:59 AR1221	/chem/ecd1a.i/030110.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:49 AR1232	/chem/ecd1a.i/030110.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:38 AR1268	/chem/ecd1a.i/030110.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:17 AR1248	/chem/ecd1a.i/030110.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 06:07 AR1242	/chem/ecd1a.i/030110.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 05:56 AR1254	/chem/ecd1a.i/030110.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000	
01-MAR-2010 05:46 AR1660	/chem/ecd1a.i/030110.b/002b0201.d

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COMPOUND LISTING

Method file : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 06:55 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	2.373	2.343-2.403	1.538e+04
	2.659	2.629-2.689	1.824e+04
	2.740	2.710-2.770	1.207e+04
	2.778	2.748-2.808	7.096e+03
	2.988	2.958-3.018	8.912e+03
63 4,4-DDD	3.900	3.880-3.920	3.060e+05
64 4,4-DDE	3.551	3.531-3.571	3.552e+05
62 4,4-DDT	4.064	4.044-4.084	2.080e+05
2 Aroclor-1221	2.031	2.001-2.061	4.398e+03
	2.123	2.093-2.153	2.431e+03
	2.149	2.119-2.179	1.042e+04
3 Aroclor-1232	2.372	2.342-2.402	6.218e+03
	2.659	2.629-2.689	7.488e+03
	2.739	2.709-2.769	4.887e+03
	2.854	2.824-2.884	2.191e+03
4 Aroclor-1242	3.241	3.211-3.271	2.731e+03
	2.372	2.342-2.402	1.256e+04
	2.659	2.629-2.689	1.461e+04
	2.777	2.747-2.807	5.629e+03
	2.988	2.958-3.018	7.310e+03
	3.241	3.211-3.271	6.183e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	2.854	2.824-2.884	9.301e+03
	2.987	2.957-3.017	1.241e+04
	3.241	3.211-3.271	1.220e+04
	3.373	3.343-3.403	1.042e+04
	3.606	3.576-3.636	6.820e+03
6 Aroclor-1254	3.216	3.186-3.246	1.201e+04
	3.371	3.341-3.401	1.583e+04
	3.605	3.575-3.635	1.952e+04
	3.767	3.737-3.797	1.381e+04
	3.876	3.846-3.906	1.428e+04
7 Aroclor-1260	3.714	3.684-3.744	1.707e+04
	3.877	3.847-3.907	2.364e+04
	4.039	4.009-4.069	2.497e+04
	4.107	4.077-4.137	1.441e+04
	4.250	4.220-4.280	1.443e+04
8 Aroclor-1262	3.714	3.684-3.744	1.261e+04
	3.876	3.846-3.906	1.569e+04
	4.106	4.076-4.136	1.995e+04
	4.250	4.220-4.280	1.798e+04
	4.429	4.399-4.459	3.725e+04
9 Aroclor-1268	4.614	4.584-4.644	4.848e+04
	4.636	4.606-4.666	5.448e+04
	4.749	4.719-4.779	3.862e+04
	4.952	4.922-4.982	1.635e+04
	5.117	5.087-5.147	1.121e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.919	1.889-1.949	4.306e+05
\$ 12 Decachlorobiphenyl	5.227	5.197-5.257	3.073e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 06:55 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	3.174	3.144-3.204	1.279e+04
	3.257	3.227-3.287	8.918e+03
	3.320	3.290-3.350	5.406e+03
	3.547	3.517-3.577	6.916e+03
	3.623	3.593-3.653	6.425e+03
62 4,4-DDT	4.660	4.640-4.680	1.000e+05
63 4,4-DDE	4.128	4.108-4.148	2.505e+05
64 4,4-DDD	4.473	4.453-4.493	2.085e+05
2 Aroclor-1221	2.474	2.444-2.504	3.431e+03
	2.569	2.539-2.599	2.152e+03
	2.609	2.579-2.639	7.328e+03
3 Aroclor-1232	2.875	2.845-2.905	4.920e+03
	3.174	3.144-3.204	5.252e+03
	3.256	3.226-3.286	3.768e+03
	3.547	3.517-3.577	2.699e+03
4 Aroclor-1242	3.780	3.750-3.810	2.631e+03
	3.174	3.144-3.204	1.035e+04
	3.256	3.226-3.286	7.279e+03
	3.547	3.517-3.577	5.768e+03
	3.780	3.750-3.810	5.788e+03
	3.808	3.778-3.838	6.641e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.382	3.352-3.412	7.602e+03
	3.547	3.517-3.577	9.360e+03
	3.781	3.751-3.811	1.065e+04
	3.808	3.778-3.838	1.210e+04
	3.945	3.915-3.975	1.150e+04
6 Aroclor-1254	3.382	3.352-3.412	6.068e+03
	3.804	3.774-3.834	1.074e+04
	3.920	3.890-3.950	1.164e+04
	4.196	4.166-4.226	1.590e+04
	4.331	4.301-4.361	1.198e+04
7 Aroclor-1260	4.314	4.284-4.344	1.321e+04
	4.439	4.409-4.469	1.557e+04
	4.704	4.674-4.734	1.184e+04
	4.878	4.848-4.908	1.220e+04
	5.024	4.994-5.054	2.653e+04
8 Aroclor-1262	4.437	4.407-4.467	1.126e+04
	4.703	4.673-4.733	1.550e+04
	4.877	4.847-4.907	1.407e+04
	5.024	4.994-5.054	2.845e+04
	5.237	5.207-5.267	1.972e+04
9 Aroclor-1268	5.236	5.206-5.266	3.730e+04
	5.264	5.234-5.294	3.492e+04
	5.413	5.383-5.443	2.658e+04
	5.577	5.547-5.607	1.223e+04
	5.770	5.740-5.800	7.433e+04
10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.278	2.248-2.308	2.974e+05
\$ 12 Decachlorobiphenyl	5.923	5.893-5.953	2.115e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 yip00818
 Curve Type : Average

Calibration File Names:
 Level 1: /chem/ecdla.i/022210.b/032f3201.d
 Level 2: /chem/ecdla.i/022210.b/033f3301.d
 Level 3: /chem/ecdla.i/022210.b/034f3401.d
 Level 4: /chem/ecdla.i/022210.b/035f3501.d
 Level 5: /chem/ecdla.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)	18473	16312	15150	14238	12749	15384	14.060
(2)	20194	18537	17759	17625	17070	18237	6.651
(3)	14170	12473	11875	11163	10646	12065	11.317
(4)	8163	7198	6933	6624	6564	7096	9.135
(5)	10345	9178	8623	8273	8142	8912	10.051
63 4,4-DDD	+++++	+++++	+++++	305990	+++++	305990	0.000
64 4,4-DDE	+++++	+++++	+++++	355239	+++++	355239	0.000
62 4,4-DDT	+++++	+++++	+++++	208015	+++++	208015	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4398	+++++	4398	0.000
(2)	+++++	+++++	+++++	2431	+++++	2431	0.000
(3)	+++++	+++++	+++++	10418	+++++	10418	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	6218	+++++	6218	0.000
(2)	+++++	+++++	+++++	7488	+++++	7488	0.000
(3)	+++++	+++++	+++++	4887	+++++	4887	0.000
(4)	+++++	+++++	+++++	2191	+++++	2191	0.000
(5)	+++++	+++++	+++++	2731	+++++	2731	0.000
4 Aroclor-1242(1)	14895	13406	12308	11554	10624	12557	13.200
(2)	15940	15326	14418	13613	13761	14612	6.870
(3)	6066	5934	5542	5337	5267	5629	6.326
(4)	8523	7616	7127	6725	6562	7310	10.814
(5)	6824	6256	5999	5817	6020	6183	6.317
5 Aroclor-1248(1)	10594	9810	9017	8885	8199	9301	9.911
(2)	14228	12736	11895	11712	11476	12409	9.043
(3)	12841	12156	11815	11785	12410	12201	3.615
(4)	11297	10503	10013	9956	10333	10420	5.179
(5)	7445	6917	6453	6460	6824	6820	5.977

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254 (1)	13496	12213	11744	11466	11117	12007	7.694
(2)	16789	15969	15727	15423	15253	15832	3.802
(3)	20267	19353	19208	19481	19310	19524	2.185
(4)	14142	13669	13487	13772	13976	13809	1.858
(5)	15228	14234	13851	14228	13864	14281	3.932
7 Aroclor-1260 (1)	19445	17307	16758	16208	15645	17072	8.574
(2)	25625	23757	23316	22992	22528	23643	5.056
(3)	27164	24948	24176	24127	24442	24971	5.079
(4)	16166	14596	13941	13551	13775	14406	7.345
(5)	15672	14437	13986	13647	14411	14431	5.316
8 Aroclor-1262 (1)	++++	++++	++++	12612	++++	12612	0.000
(2)	++++	++++	++++	15693	++++	15693	0.000
(3)	++++	++++	++++	19946	++++	19946	0.000
(4)	++++	++++	++++	17981	++++	17981	0.000
(5)	++++	++++	++++	37250	++++	37250	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	457836	439032	431646	423676	400995	430637	4.841
12 Decachlorobiphenyl	331580	312081	303953	298909	289924	307289	5.135

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 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)	14790	13406	12599	11956	11198	12790	10.807
(2)	11020	9550	8735	8081	7204	8918	16.336
(3)	6667	5702	5261	4923	4477	5406	15.464
(4)	8469	7466	6811	6206	5627	6916	15.991
(5)	7861	6755	6366	5845	5300	6425	15.123
62 4,4-DDT	+++++	+++++	+++++	100019	+++++	100019	0.000
63 4,4-DDE	+++++	+++++	+++++	250510	+++++	250510	0.000
64 4,4-DDD	+++++	+++++	+++++	208527	+++++	208527	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	3431	+++++	3431	0.000
(2)	+++++	+++++	+++++	2152	+++++	2152	0.000
(3)	+++++	+++++	+++++	7328	+++++	7328	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	4920	+++++	4920	0.000
(2)	+++++	+++++	+++++	5252	+++++	5252	0.000
(3)	+++++	+++++	+++++	3768	+++++	3768	0.000
(4)	+++++	+++++	+++++	2699	+++++	2699	0.000
(5)	+++++	+++++	+++++	2631	+++++	2631	0.000
4 Aroclor-1242(1)	12162	10602	10267	9852	8873	10351	11.615
(2)	8972	7860	7095	6551	5917	7279	16.286
(3)	7172	6222	5595	5138	4714	5768	16.707
(4)	7092	6149	5608	5215	4876	5788	15.018
(5)	8262	7049	6439	5944	5512	6641	16.138
5 Aroclor-1248(1)	9375	8130	7334	6873	6297	7602	15.743
(2)	11273	9902	9059	8609	7955	9360	13.704
(3)	12356	11118	10348	9982	9432	10647	10.657
(4)	14147	12783	11698	11327	10532	12097	11.596
(5)	13387	12032	11069	10719	10286	11499	10.750

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 22-FEB-2010 06:31
 End Cal Date : 24-FEB-2010 02:39
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
 Cal Date : 02-Mar-2010 06:55 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	7593	6474	5915	5463	4897	6068	16.986
(2)	13079	11278	10543	9836	8978	10743	14.511
(3)	14023	12144	11373	10769	9907	11643	13.419
(4)	18579	16173	15683	15087	13972	15899	10.745
(5)	14693	12059	11530	11303	10291	11975	13.772
7 Aroclor-1260(1)	16156	14478	12627	11898	10869	13206	15.988
(2)	18308	16389	15401	14483	13254	15567	12.332
(3)	14169	12468	11644	10875	10061	11844	13.319
(4)	14677	12787	11930	11182	10430	12201	13.416
(5)	30570	27429	26347	25126	23163	26527	10.405
8 Aroclor-1262(1)	++++	++++	++++	11265	++++	11265	0.000
(2)	++++	++++	++++	15504	++++	15504	0.000
(3)	++++	++++	++++	14070	++++	14070	0.000
(4)	++++	++++	++++	28448	++++	28448	0.000
(5)	++++	++++	++++	19723	++++	19723	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
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
\$ 11 4cmx	335261	308362	295849	285028	262485	297397	9.098
\$ 12 Decachlorobiphenyl	252219	220293	206273	196840	181867	211498	12.633

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.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 0628
 Lab File ID: 006F0601 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13308.318	0.01	-13.5	15.0
(2)	18237.012	16936.020	0.01	-7.1	15.0
(3)	12065.482	11017.623	0.01	-8.7	15.0
(4)	7096.105	6662.826	0.01	-6.1	15.0
(5)	8912.192	8400.395	0.01	-5.7	15.0
Aroclor-1260	17072.421	16777.115	0.01	-1.7	15.0
(2)	23643.449	24986.460	0.01	5.7	15.0
(3)	24971.335	26723.350	0.01	7.0	15.0
(4)	14405.675	15046.298	0.01	4.4	15.0
(5)	14430.527	15540.140	0.01	7.7	15.0
4cmx	430636.91	389096.61	0.01	-9.6	15.0
Decachlorobiphenyl	307289.35	301986.93	0.01	-1.7	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.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 0628
 Lab File ID: 006B0601 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	11776.868	0.01	-7.9	15.0
(2)	8917.926	7964.740	0.01	-10.7	15.0
(3)	5406.011	4935.768	0.01	-8.7	15.0
(4)	6915.638	6222.912	0.01	-10.0	15.0
(5)	6425.213	5888.255	0.01	-8.4	15.0
Aroclor-1260	13205.642	12074.141	0.01	-8.6	15.0
(2)	15566.814	14772.970	0.01	-5.1	15.0
(3)	11843.501	11120.482	0.01	-6.1	15.0
(4)	12201.193	11500.807	0.01	-5.7	15.0
(5)	26527.172	25815.917	0.01	-2.7	15.0
4cmx	297396.93	270469.77	0.01	-9.0	15.0
Decachlorobiphenyl	211498.34	190980.67	0.01	-9.7	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.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1212
 Lab File ID: 036F3601 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13525.352	0.01	-12.1	15.0
(2)	18237.012	17409.150	0.01	-4.5	15.0
(3)	12065.482	11215.104	0.01	-7.0	15.0
(4)	7096.105	6744.345	0.01	-5.0	15.0
(5)	8912.192	8526.333	0.01	-4.3	15.0
Aroclor-1260	17072.421	16938.785	0.01	-0.8	15.0
(2)	23643.449	25150.228	0.01	6.4	15.0
(3)	24971.335	26981.861	0.01	8.0	15.0
(4)	14405.675	15195.982	0.01	5.5	15.0
(5)	14430.527	15770.812	0.01	9.3	15.0
4cmx	430636.91	396179.60	0.01	-8.0	15.0
Decachlorobiphenyl	307289.35	309403.25	0.01	0.7	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.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1212
 Lab File ID: 036B3601 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12107.372	0.01	-5.3	15.0
(2)	8917.926	7984.895	0.01	-10.5	15.0
(3)	5406.011	5002.187	0.01	-7.5	15.0
(4)	6915.638	6462.264	0.01	-6.6	15.0
(5)	6425.213	5969.635	0.01	-7.1	15.0
Aroclor-1260	13205.642	12142.700	0.01	-8.0	15.0
(2)	15566.814	14819.176	0.01	-4.8	15.0
(3)	11843.501	11142.127	0.01	-5.9	15.0
(4)	12201.193	11552.713	0.01	-5.3	15.0
(5)	26527.172	25985.688	0.01	-2.0	15.0
4cmx	297396.93	271731.35	0.01	-8.6	15.0
Decachlorobiphenyl	211498.34	195571.21	0.01	-7.5	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1435
 Lab File ID: 048F4801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14316.548	0.01	-6.9	15.0
(2)	18237.012	17701.542	0.01	-2.9	15.0
(3)	12065.482	11565.050	0.01	-4.1	15.0
(4)	7096.105	6997.177	0.01	-1.4	15.0
(5)	8912.192	8944.812	0.01	0.4	15.0
Aroclor-1260	17072.421	17183.835	0.01	0.6	15.0
(2)	23643.449	25694.330	0.01	8.7	15.0
(3)	24971.335	27241.665	0.01	9.1	15.0
(4)	14405.675	15504.824	0.01	7.6	15.0
(5)	14430.527	16087.512	0.01	11.5	15.0
4cmx	430636.91	406177.29	0.01	-5.7	15.0
Decachlorobiphenyl	307289.35	311661.88	0.01	1.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1435
 Lab File ID: 048B4801 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12335.547	0.01	-3.6	15.0
(2)	8917.926	8263.560	0.01	-7.3	15.0
(3)	5406.011	5158.530	0.01	-4.6	15.0
(4)	6915.638	6685.218	0.01	-3.3	15.0
(5)	6425.213	6241.225	0.01	-2.9	15.0
Aroclor-1260	13205.642	12476.487	0.01	-5.5	15.0
(2)	15566.814	15274.344	0.01	-1.9	15.0
(3)	11843.501	11447.911	0.01	-3.3	15.0
(4)	12201.193	11901.933	0.01	-2.4	15.0
(5)	26527.172	26671.690	0.01	0.5	15.0
4cmx	297396.93	279665.69	0.01	-6.0	15.0
Decachlorobiphenyl	211498.34	200321.32	0.01	-5.3	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.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1559
 Lab File ID: 055F5501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	13715.234	0.01	-10.8	15.0
(2)	18237.012	17422.148	0.01	-4.5	15.0
(3)	12065.482	11372.597	0.01	-5.7	15.0
(4)	7096.105	6869.385	0.01	-3.2	15.0
(5)	8912.192	8675.649	0.01	-2.6	15.0
Aroclor-1260	17072.421	17202.584	0.01	0.8	15.0
(2)	23643.449	25581.062	0.01	8.2	15.0
(3)	24971.335	27240.169	0.01	9.1	15.0
(4)	14405.675	15422.358	0.01	7.0	15.0
(5)	14430.527	16053.358	0.01	11.2	15.0
4cmx	430636.91	400870.52	0.01	-6.9	15.0
Decachlorobiphenyl	307289.35	311862.34	0.01	1.5	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1559
 Lab File ID: 055B5501 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12227.620	0.01	-4.4	15.0
(2)	8917.926	8139.754	0.01	-8.7	15.0
(3)	5406.011	5085.619	0.01	-5.9	15.0
(4)	6915.638	6369.970	0.01	-7.9	15.0
(5)	6425.213	6103.953	0.01	-5.0	15.0
Aroclor-1260	13205.642	12349.358	0.01	-6.5	15.0
(2)	15566.814	15116.766	0.01	-2.9	15.0
(3)	11843.501	11375.494	0.01	-4.0	15.0
(4)	12201.193	11867.809	0.01	-2.7	15.0
(5)	26527.172	26547.824	0.01	0.1	15.0
4cmx	297396.93	276220.69	0.01	-7.1	15.0
Decachlorobiphenyl	211498.34	199761.09	0.01	-5.5	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1753
 Lab File ID: 064F6401 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	15384.345	14001.398	0.01	-9.0	15.0
(2)	18237.012	17873.746	0.01	-2.0	15.0
(3)	12065.482	11318.527	0.01	-6.2	15.0
(4)	7096.105	6806.828	0.01	-4.1	15.0
(5)	8912.192	8633.111	0.01	-3.1	15.0
Aroclor-1260	17072.421	16785.341	0.01	-1.7	15.0
(2)	23643.449	25208.399	0.01	6.6	15.0
(3)	24971.335	26814.029	0.01	7.4	15.0
(4)	14405.675	15193.036	0.01	5.5	15.0
(5)	14430.527	15803.009	0.01	9.5	15.0
4cmx	430636.91	397250.44	0.01	-7.8	15.0
Decachlorobiphenyl	307289.35	303739.56	0.01	-1.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1982
 Instrument ID: ECD1A Calibration Date: 03/01/10 Time: 1753
 Lab File ID: 064B6401 Init. Calib. Date(s): 02/22/10 02/22/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0713 0755
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12789.782	12181.240	0.01	-4.8	15.0
(2)	8917.926	8065.299	0.01	-9.6	15.0
(3)	5406.011	5047.029	0.01	-6.6	15.0
(4)	6915.638	6578.022	0.01	-4.9	15.0
(5)	6425.213	6091.102	0.01	-5.2	15.0
Aroclor-1260	13205.642	12285.327	0.01	-7.0	15.0
(2)	15566.814	15011.617	0.01	-3.6	15.0
(3)	11843.501	11315.020	0.01	-4.5	15.0
(4)	12201.193	11828.319	0.01	-3.0	15.0
(5)	26527.172	26391.121	0.01	-0.5	15.0
4cmx	297396.93	273094.46	0.01	-8.2	15.0
Decachlorobiphenyl	211498.34	199195.13	0.01	-5.8	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/003f0301.d

Lab Smp Id: WAR100219-54

Client Smp ID: AR125401

Inj Date : 01-MAR-2010 05:56

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254

CAS #: 11097-69-1

3.216	3.216	0.000	12428599	1000.00	1040 80.00- 120.00	100.00
3.371	3.371	0.000	16816364	1000.00	1060 89.40- 129.40	135.30
3.605	3.605	0.000	21942791	1000.00	1120 29.05- 69.05	176.55
3.767	3.767	0.000	16407992	1000.00	1190 9.00- 49.00	132.02
3.876	3.876	0.000	15998942	1000.00	1120 410.81- 450.81	128.73

Average of Peak Amounts = 1.11e+03

Data File: /chem/ecdl1.i/030110.b/003f0301.d

Date : 01-MAR-2010 05:56

Client ID: AR125401

Sample Info: 1MAR100219-54

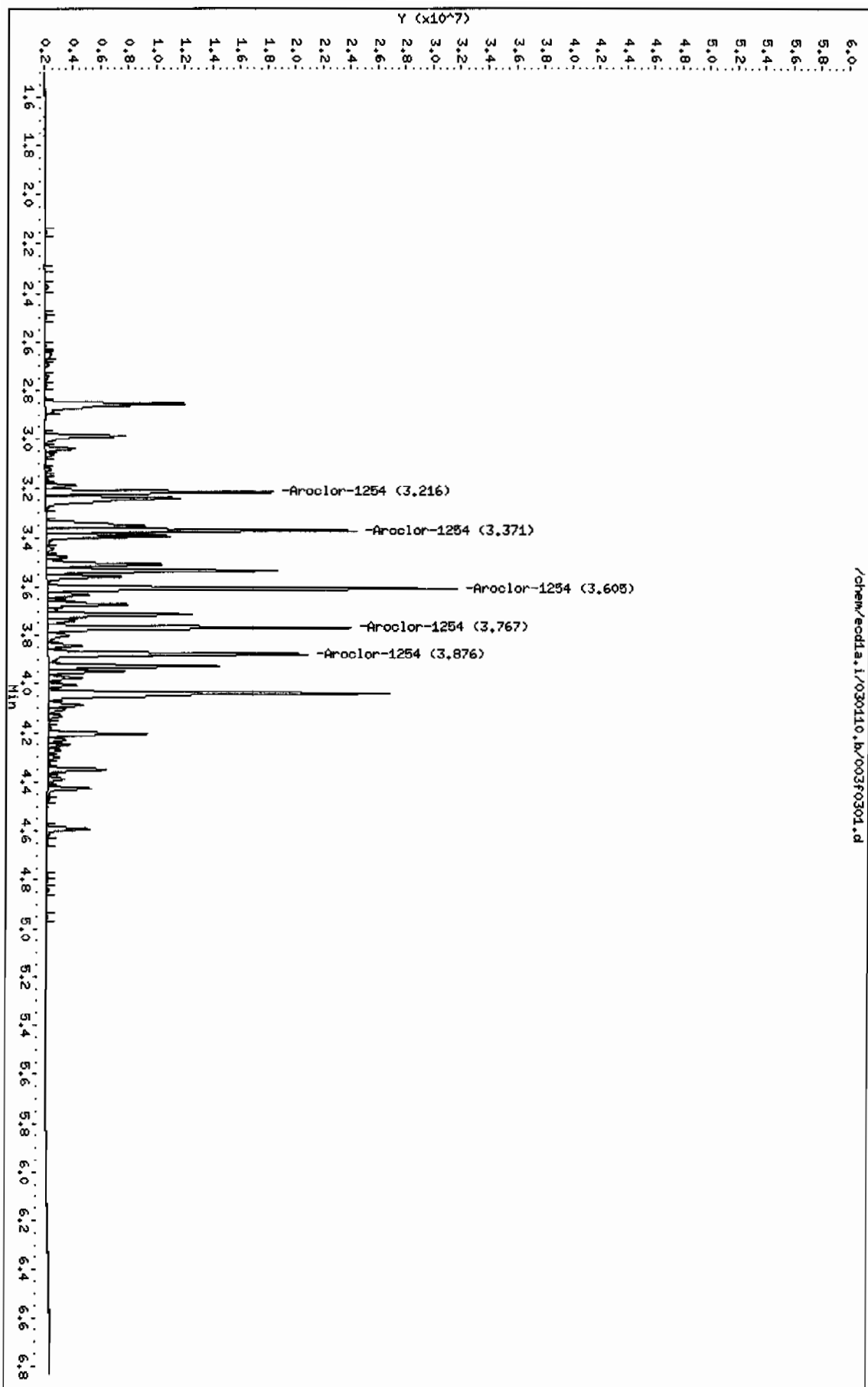
Column phase: CLP1

Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl1.i/030110.b/003f0301.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/003b0301.d

Lab Smp Id: WAR100219-54 Client Smp ID: AR125401

Inj Date : 01-MAR-2010 05:56

Operator : YS1 Inst ID: ecd1a.i

Smp Info : |WAR100219-54

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

3.382	3.382	0.000	5794257	1000.00	955 80.00- 120.00	100.00
3.804	3.804	0.000	10527751	1000.00	980 161.69- 201.69	181.69
3.920	3.920	0.000	11733937	1000.00	1010 182.51- 222.51	202.51
4.196	4.196	0.000	16479181	1000.00	1040 264.41- 304.41	284.41
4.331	4.331	0.000	12089892	1000.00	1010 188.65- 228.65	208.65

Average of Peak Amounts = 998

Data File: /chem/eodla.i/030110.b/003b0301.d

Date: 01-MAR-2010 05:56

Client ID: AR125401

Sample Info: 1MAR100219-54

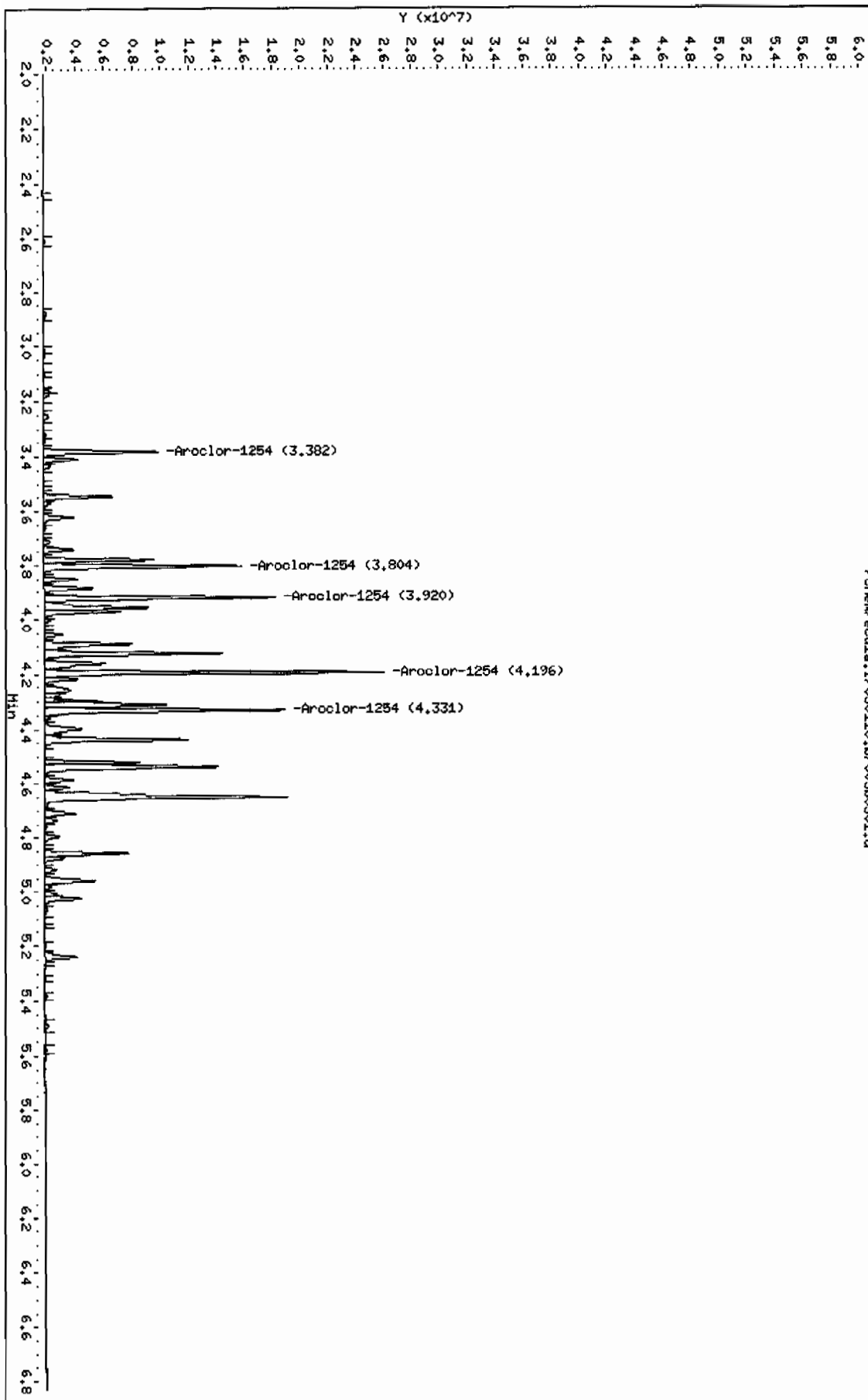
Column phase: CLP2

Instrument: eodla.i

Operator: YS1

Column diameter: 0.25

/chem/eodla.i/030110.b/003b0301.d



Data File: /chem/ecdl1.i/030110.b/004f0401.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/004f0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 01-MAR-2010 06:07

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

2.372	2.372	0.000	11845552	1000.00	943 80.00- 120.00	100.00
2.659	2.659	0.000	14625693	1000.00	1000 105.80- 145.80	123.47
2.777	2.777	0.000	5644185	1000.00	1000 28.50- 68.50	47.65
2.988	2.988	0.000	7389796	1000.00	1010 41.07- 81.07	62.38
3.241	3.241	0.000	7202178	1000.00	1160 2.02- 42.02	60.80

Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdt.a.i/030110.b/004f0401.d

Date : 01-MAR-2010 06:07

Client ID: AR124201

Sample Info: 1MAR000219-42

Column phase: CLP1

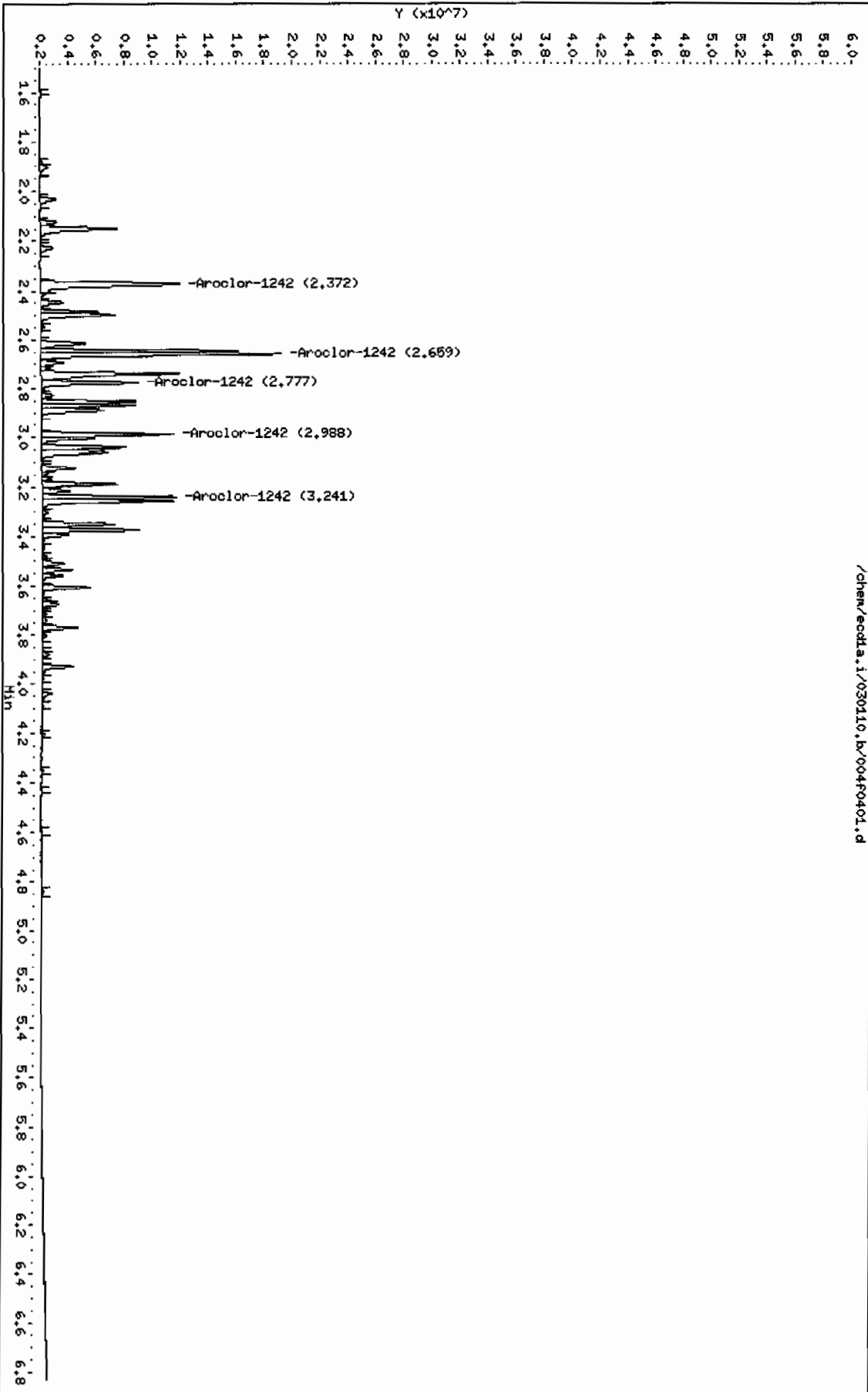
Instrument: ecdt.a.i

Operator: YS1

Column diameter: 0.25

/chem/ecdt.a.i/030110.b/004f0401.d

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Data File: /chem/ecdl1a.i/030110.b/004b0401.d
Report Date: 01-Mar-2010 11:54

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/004b0401.d

Lab Smp Id: WAR100219-42

Client Smp ID: AR124201

Inj Date : 01-MAR-2010 06:07

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100219-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

3.174	3.174	0.000	10228117	1000.00	988 80.00- 120.00	100.00
3.256	3.256	0.000	6860562	1000.00	942 47.08- 87.08	67.08
3.547	3.547	0.000	5452140	1000.00	945 33.31- 73.31	53.31
3.780	3.780	0.000	5763523	1000.00	996 36.35- 76.35	56.35
3.808	3.808	0.000	6419425	1000.00	966 42.76- 82.76	62.76

Average of Peak Amounts =

968

Data File: /chem/ecdda.i/030110.b/004b0401.d

Date: 01-MAR-2010 06:07

Client ID: AR124201

Sample Info: IWR100219-42

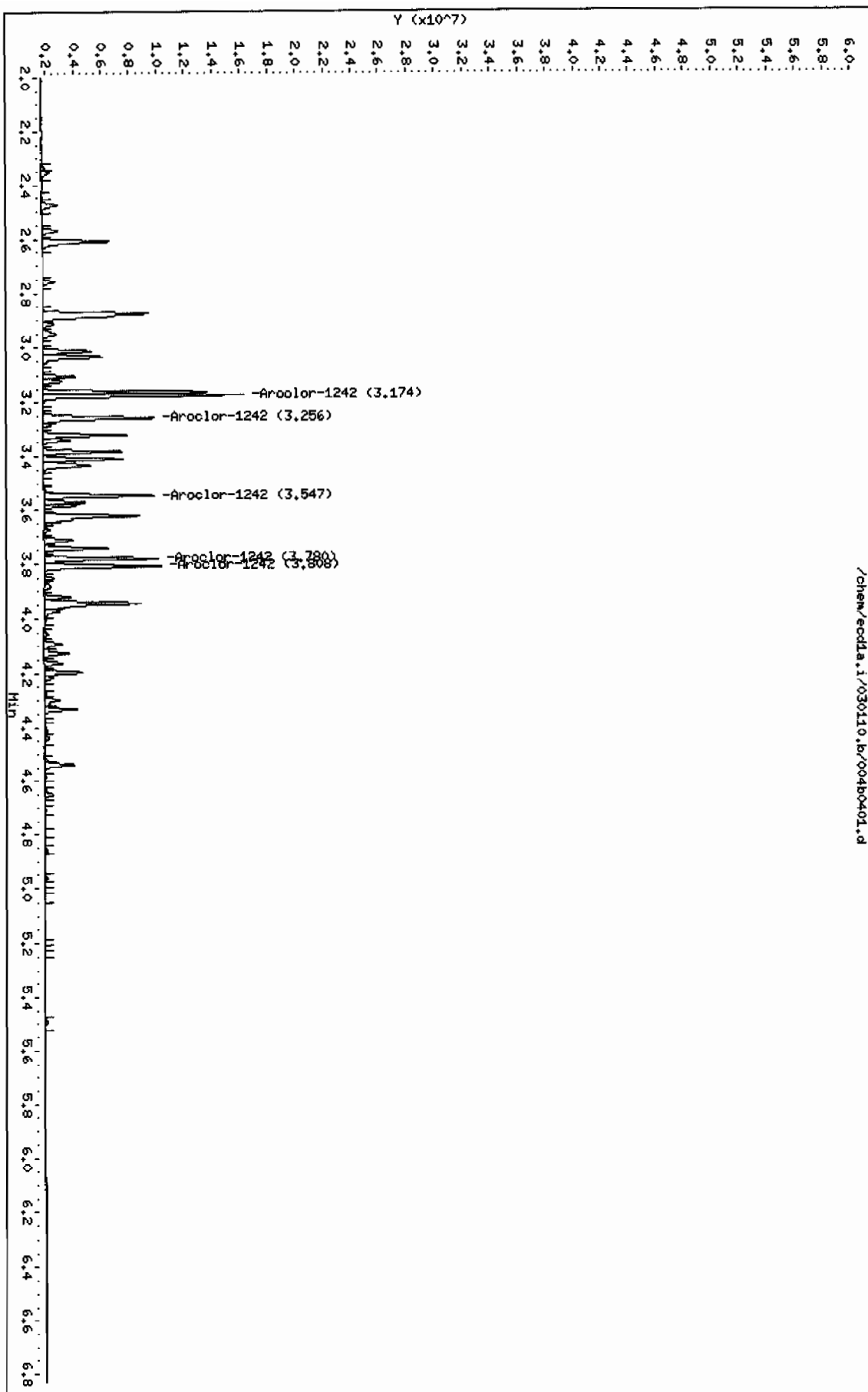
Column Phase: CLP2

Instrument: ecdda.i

Operator: YSI

Column diameter: 0.25

/chem/ecdda.i/030110.b/004b0401.d



Data File: /chem/ecdla.i/030110.b/005f0501.d
Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/005f0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 01-MAR-2010 06:17

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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
2.854	2.854	0.000	9749371 1000.00	1050 80.00-	120.00	100.00
2.987	2.987	0.000	12679792 1000.00	1020 124.41-	164.41	130.06
3.241	3.241	0.000	14185001 1000.00	1160 32.08-	72.08	145.50
3.373	3.373	0.000	11371497 1000.00	1090 87.65-	127.65	116.64
3.606	3.606	0.000	7434507 1000.00	1090 28.27-	68.27	76.26

Average of Peak Amounts = 1.08e+03

Data File: /chem/ecda.i/030110.b/005f0501.d

Date : 01-MAR-2010 06:17

Client ID: AR124801

Sample Info: 1MAR00223-48

Column phase: CLP1

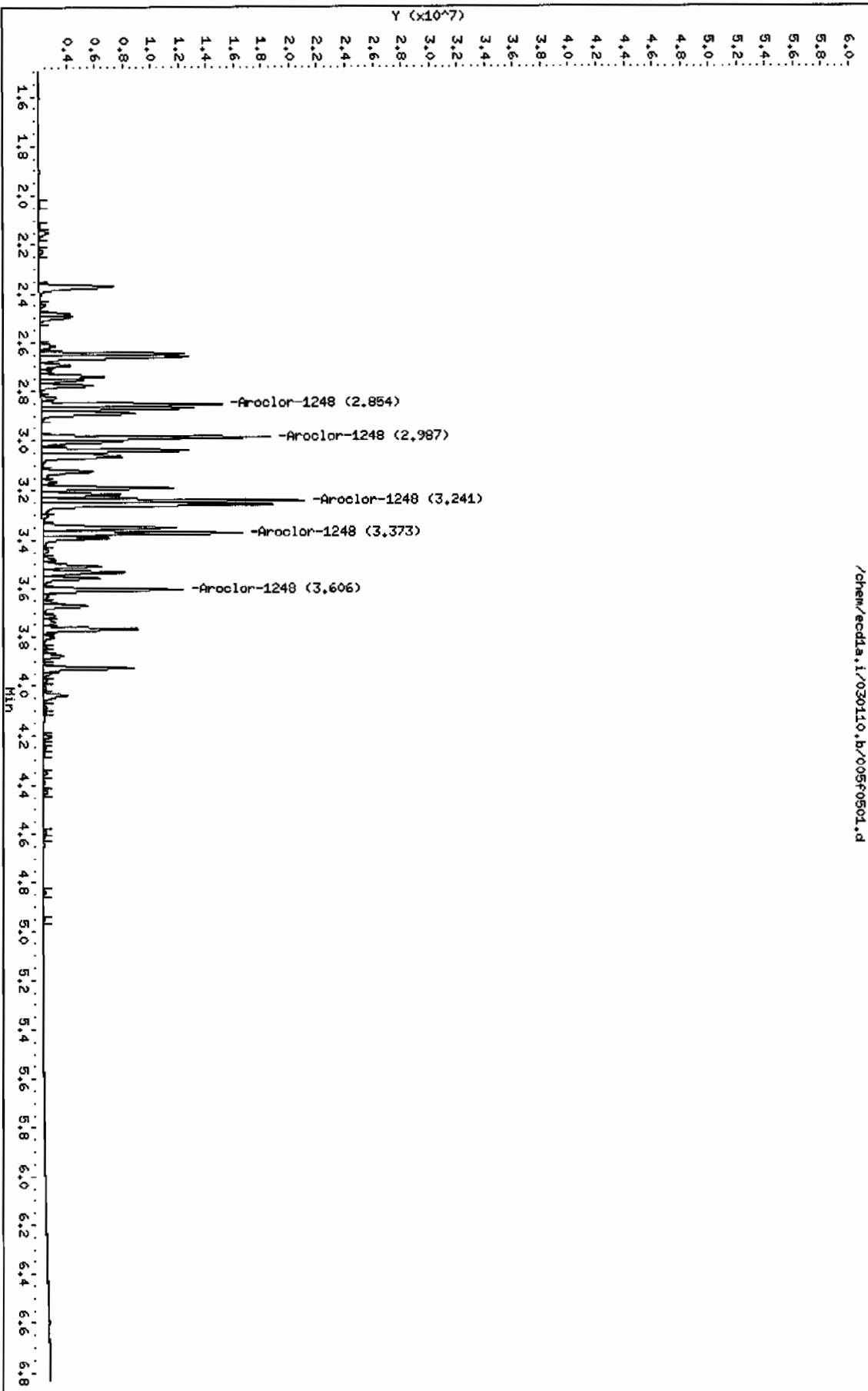
Page 1

Instrument: ecda.i

Operator: YSI

Column diameter: 0.25

/chem/ecda.i/030110.b/005f0501.d



Data File: /chem/ecdl1a.i/030110.b/005b0501.d
Report Date: 01-Mar-2010 11:55

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/005b0501.d

Lab Smp Id: WAR100223-48

Client Smp ID: AR124801

Inj Date : 01-MAR-2010 06:17

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100223-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.382	3.382	0.000	7459436	1000.00	981 80.00- 120.00	100.00
3.547	3.547	0.000	9385175	1000.00	1000 105.82- 145.82	125.82
3.781	3.781	0.000	10904454	1000.00	1020 126.18- 166.18	146.18
3.808	3.808	0.000	12146330	1000.00	1000 142.83- 182.83	162.83
3.945	3.945	0.000	11749045	1000.00	1020 137.51- 177.51	157.51

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdda.i/030110.b/005b0501.d

Date : 01-MAR-2010 06:17

Client ID: AR124801

Sample Info: IMR100223-48

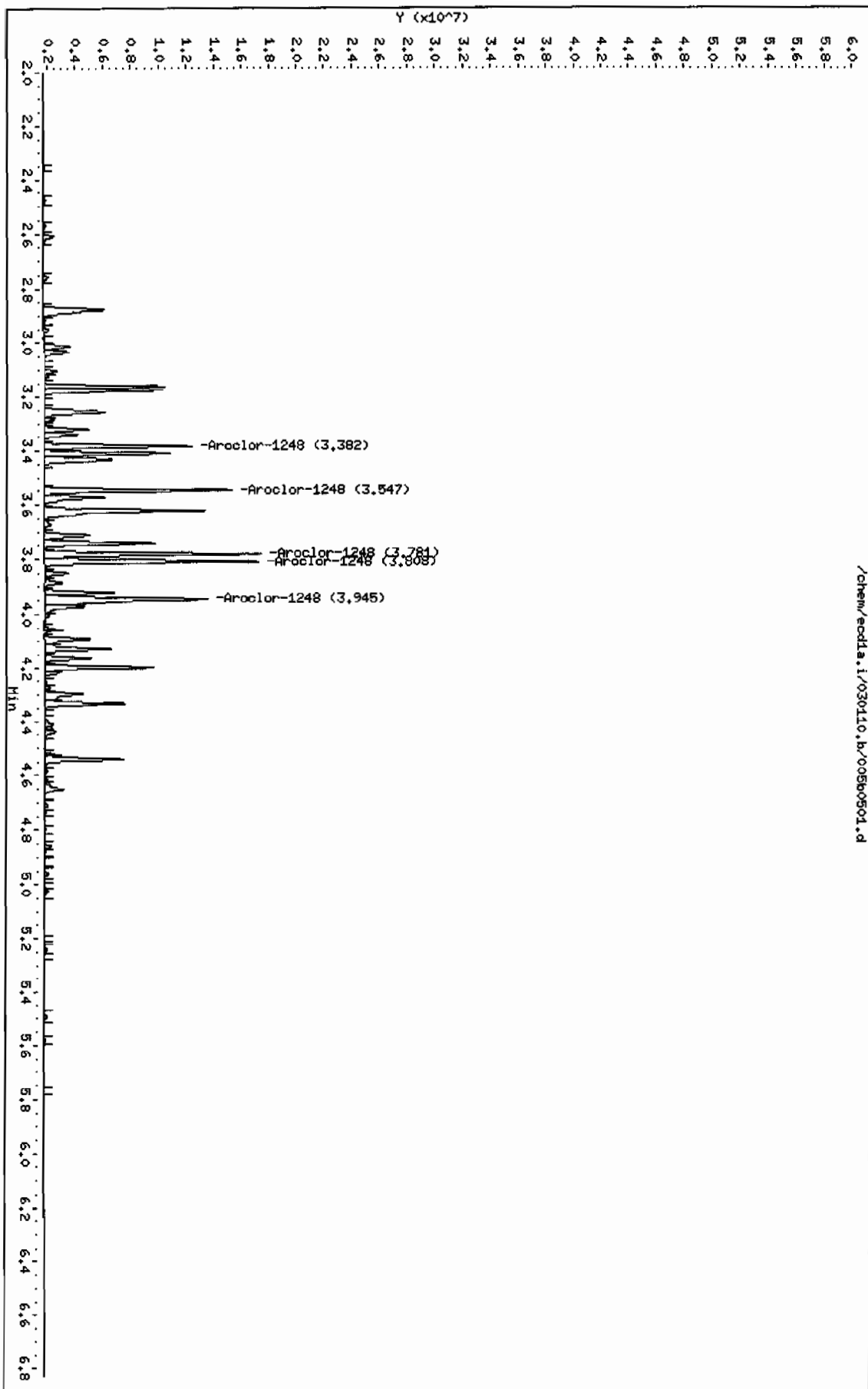
Column phase: CLP2

Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25

/chem/ecdda.i/030110.b/005b0501.d



Data File: /chem/ecdla.i/030110.b/006f0601.d
Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/006f0601.d

Lab Smp Id: WAR100222-60 01

Client Smp ID: AR166001

Inj Date : 01-MAR-2010 06:28

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
11.4cmx						
1.919	1.919	0.000	38909661 100.000	90.4	80.00- 120.00	100.00

12 Decachlorobiphenyl						
5.227	5.227	0.000	30198693 100.000	98.3	80.00- 120.00	100.00

1 Aroclor-1016						
2.373	2.373	0.000	13308318 1000.00	865	80.00- 120.00	100.00
2.659	2.659	0.000	16936020 1000.00	929	105.80- 145.80	127.26
2.740	2.740	0.000	11017623 1000.00	913	60.67- 100.67	82.79
2.778	2.778	0.000	6662826 1000.00	939	28.50- 68.50	50.07
2.988	2.988	0.000	8400395 1000.00	942	41.07- 81.07	63.12
Average of Peak Amounts =				918		

7 Aroclor-1260						
3.714	3.714	0.000	16777115 1000.00	983	80.00- 120.00	100.00
3.877	3.877	0.000	24986460 1000.00	1060	129.35- 169.35	148.93
4.039	4.039	0.000	26723350 1000.00	1070	140.95- 180.95	159.28
4.107	4.107	0.000	15046298 1000.00	1040	70.53- 110.53	89.68
4.250	4.250	0.000	15540140 1000.00	1080	74.24- 114.24	92.63
Average of Peak Amounts =				1.05e+03		

Data File: /chem/ecdt1a.i/030110.b/006f0601.d

Date: 01-MAR-2010 06:28

Client ID: AR166001

Sample Info: 1MAR100222-60 01

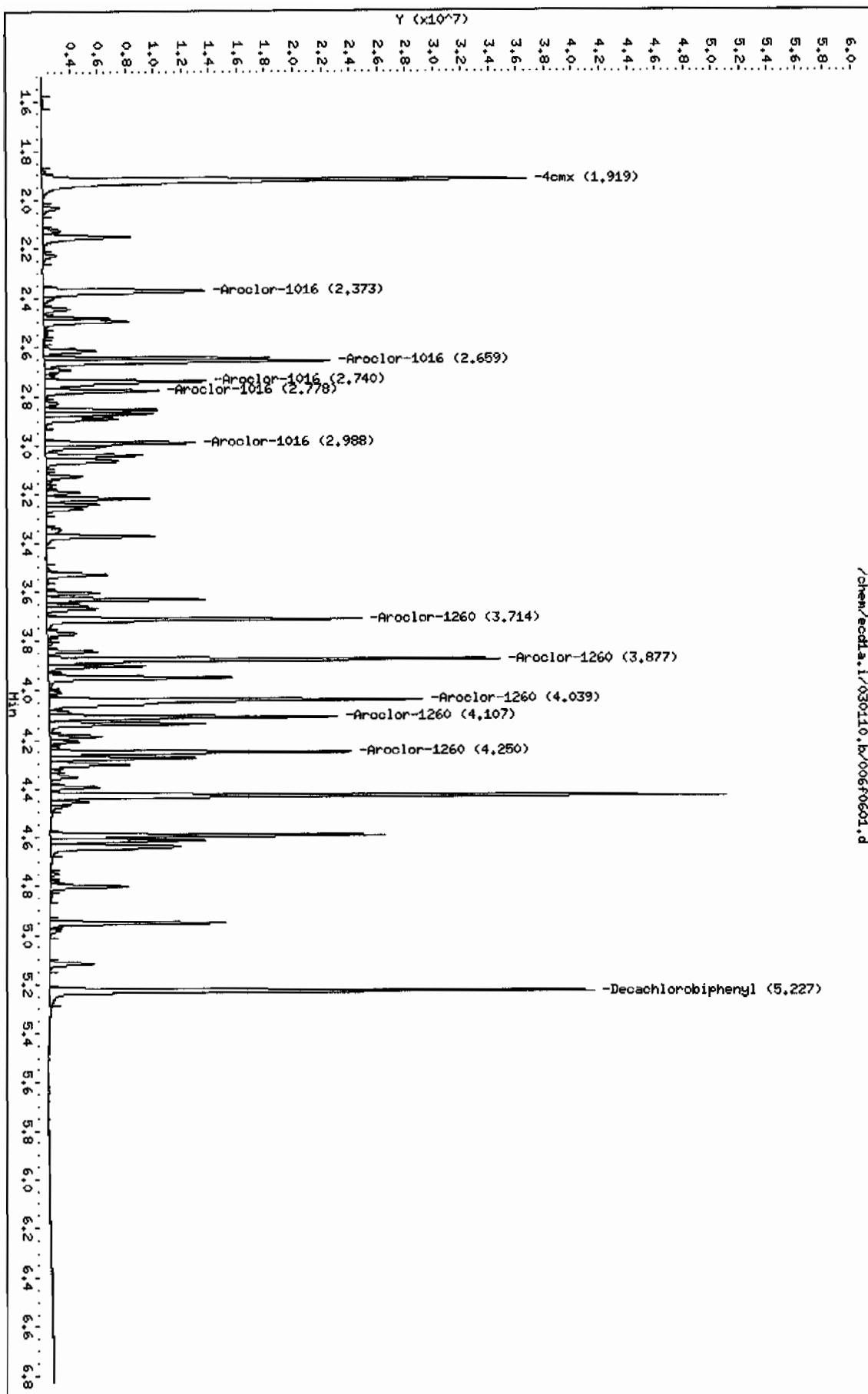
Column phase: CLP1

Instrument: ecdt1a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdt1a.i/030110.b/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/006b0601.d
 Lab Smp Id: WAR100222-60 01 Client Smp ID: AR166001
 Inj Date : 01-MAR-2010 06:28
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 01
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 11:24 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 6 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			
2.278	2.278	0.000	27046977	100.000	90.9	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.923	5.923	0.000	19098067	100.000	90.3	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.174	3.174	0.000	11776868	1000.00	921	80.00-	120.00	100.00 (M)
3.257	3.257	0.000	7964740	1000.00	893	44.57-	84.57	67.63
3.320	3.320	0.000	4935768	1000.00	913	20.24-	60.24	41.91
3.547	3.547	0.000	6222912	1000.00	900	30.33-	70.33	52.84
3.623	3.623	0.000	5888255	1000.00	916	28.07-	68.07	50.00
Average of Peak Amounts =					909			

7 Aroclor-1260					CAS #: 11096-82-5			
4.314	4.314	0.000	12074141	1000.00	914	80.00-	120.00	100.00
4.439	4.439	0.000	14772970	1000.00	949	102.26-	142.26	122.35
4.704	4.704	0.000	11120482	1000.00	939	71.55-	111.55	92.10
4.878	4.878	0.000	11500807	1000.00	942	75.28-	115.28	95.25
5.024	5.024	0.000	25815917	1000.00	973	192.38-	232.38	213.81
Average of Peak Amounts =					944			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/eodla.i/030110.b/006b0601.d

Date : 01-MAR-2010 06:28

Client ID: AR166001

Sample Info: MAR100222-60 01

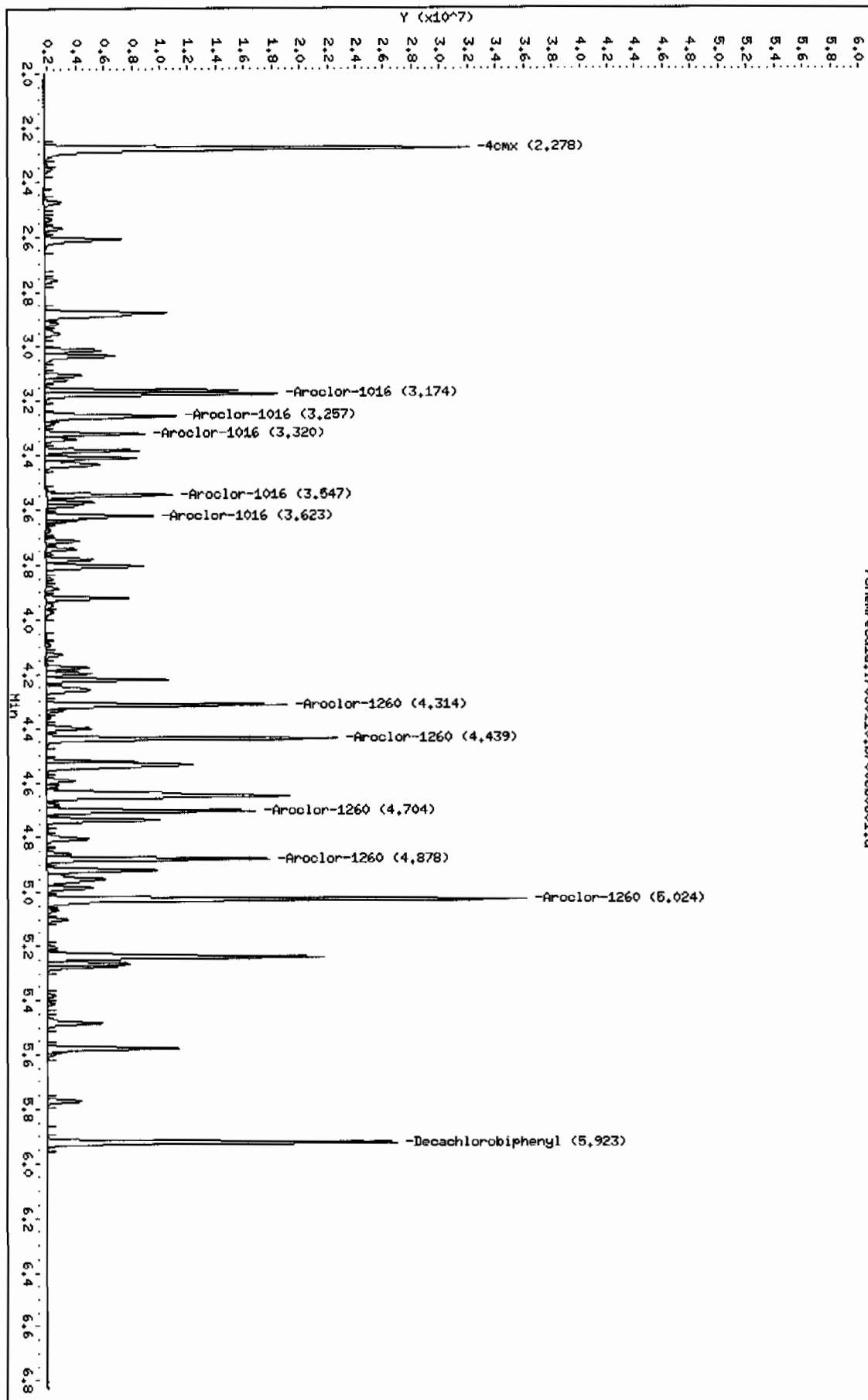
Column phase: CLP2

Instrument: eodla.i

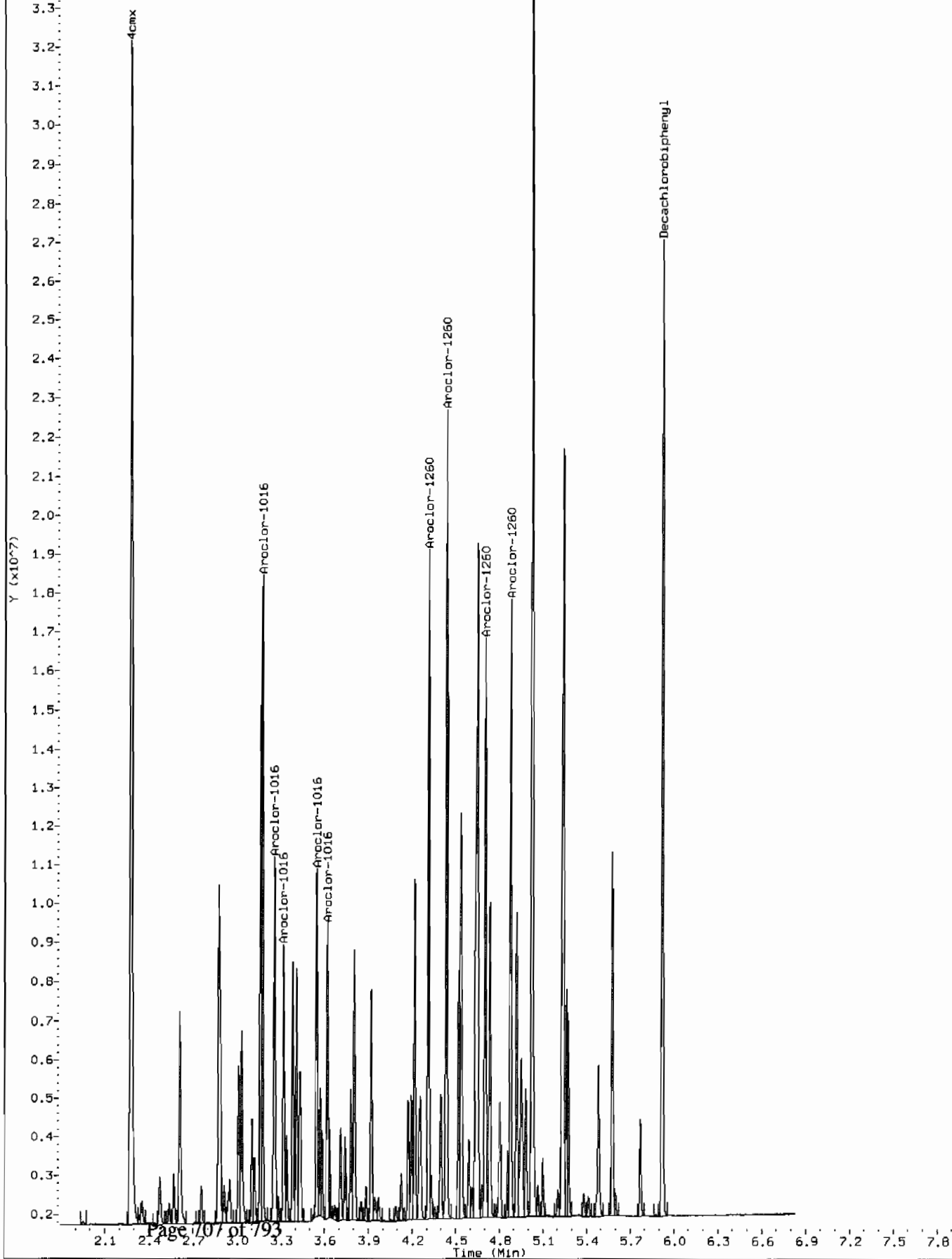
Operator: YS1

Column diameter: 0.25

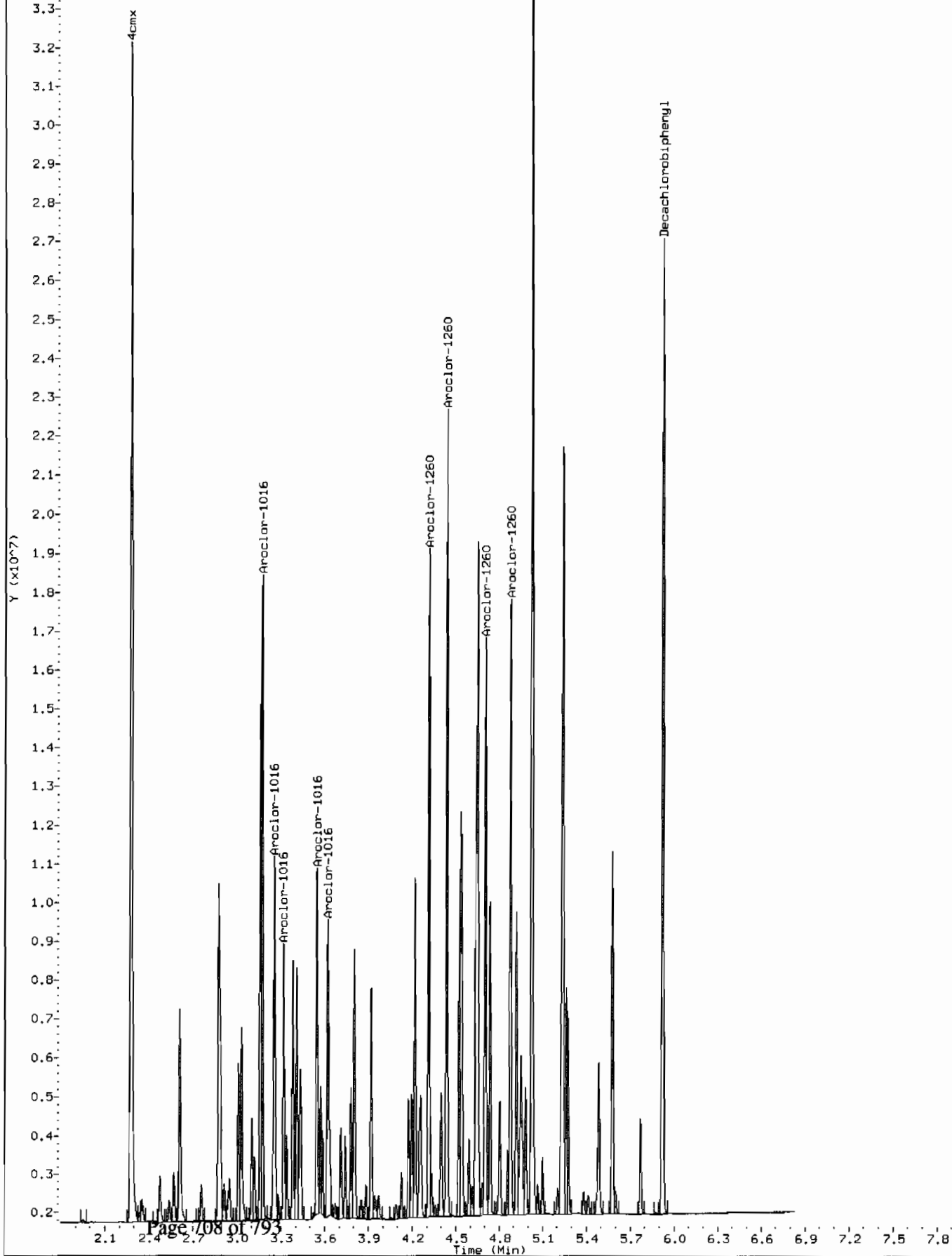
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Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/006b0601.d
Operator: YS1
Injection Date: 01-MAR-2010 06:28
Instrument: ecdl1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl1.i/030110.b/Orig-006b0601.d
Operator: YS1
Injection Date: 01-MAR-2010 06:28
Instrument: ecdl1.i
Client Sample ID: AR166001



Data File: /chem/ecdla.i/030110.b/008f0801.d
Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/008f0801.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 01-MAR-2010 06:49

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 11:28 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: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232			CAS #: 11141-16-5			
2.372	2.372	0.000	6411010 1000.00	1030	80.00- 120.00	100.00
2.659	2.659	0.000	7990266 1000.00	1070	105.80- 145.80	124.63
2.739	2.739	0.000	5300618 1000.00	1080	60.67- 100.67	82.68
2.854	2.854	0.000	2583763 1000.00	1180	22.29- 62.29	40.30
3.241	3.241	0.000	3472287 1000.00	1270	2.02- 42.02	54.16

Average of Peak Amounts = 1.13e+03

Data File: /chem/ecdl1a.i/030110.b/008f0801.d

Date: 01-MAR-2010 06:49

Client ID: AR123201

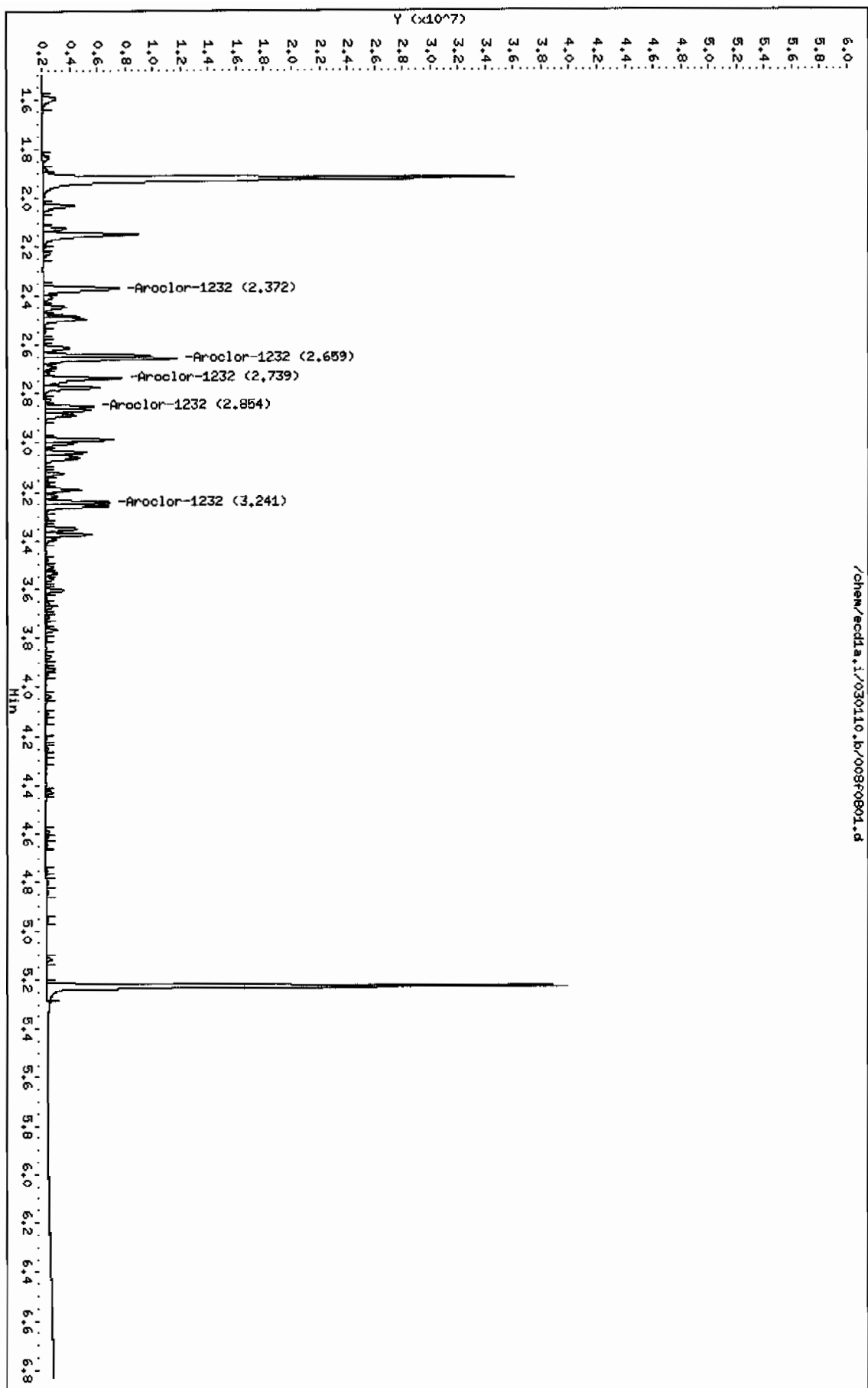
Sample Info: IMR100104-32

Column Phase: CLP1

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/008b0801.d
Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/008b0801.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 01-MAR-2010 06:49

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 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: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141-16-5			
2.875	2.875	0.000	5144976 1000.00	1040	80.00- 120.00	100.00
3.174	3.174	0.000	5699021 1000.00	1080	90.77- 130.77	110.77
3.256	3.256	0.000	3960037 1000.00	1050	56.97- 96.97	76.97
3.547	3.547	0.000	2954233 1000.00	1090	37.42- 77.42	57.42
3.780	3.780	0.000	2947565 1000.00	1120	37.29- 77.29	57.29
Average of Peak Amounts =			1.08e+03			

Data File: /chem/eod1a.i/030110.b/008b0801.d

Date: 01-MAR-2010 06:49

Client ID: RR123201

Sample Info: 1MR100104-32

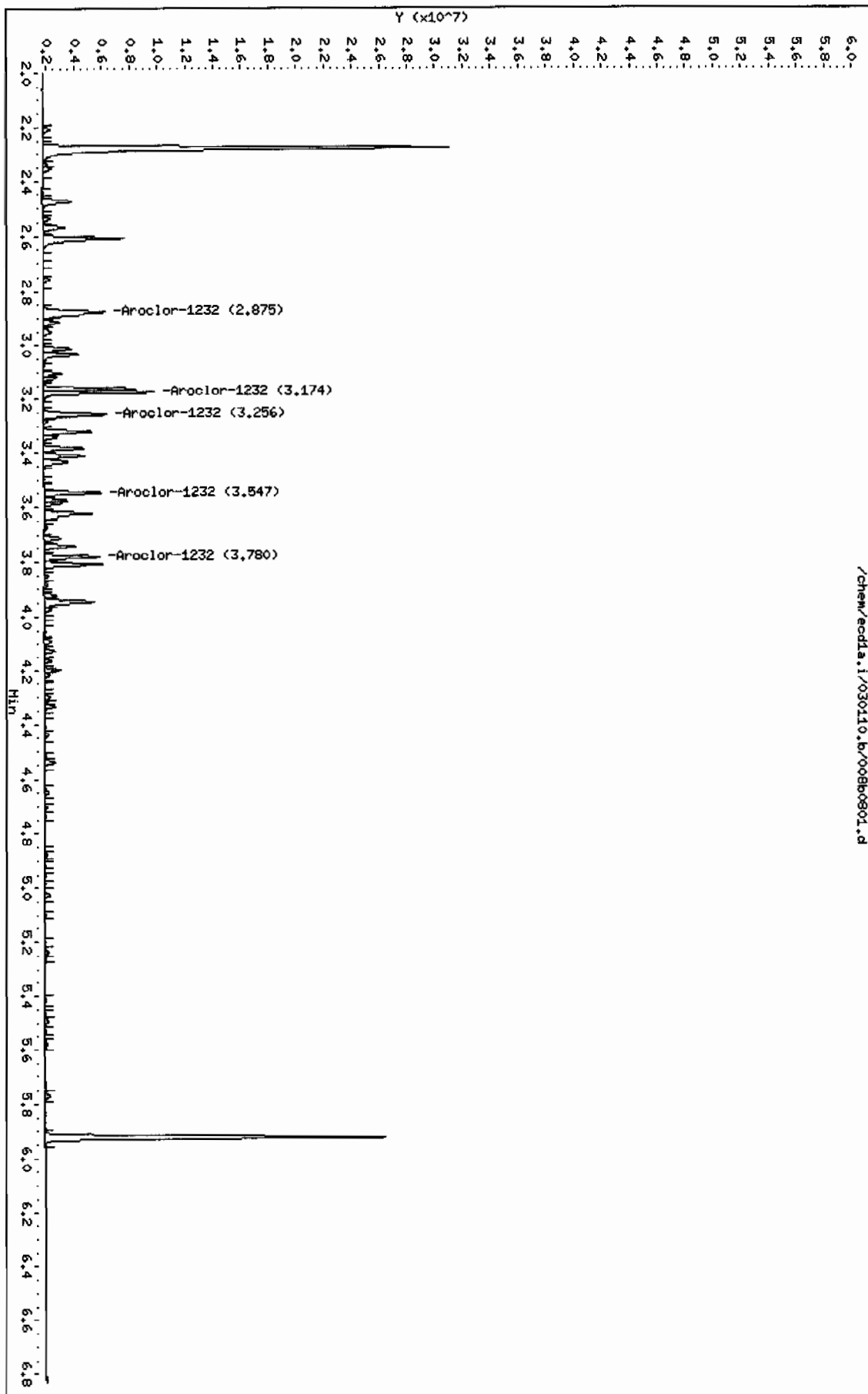
Column phase: CLP2

Instrument: eod1a.i

Operator: YSI

Column diameter: 0.25

/chem/eod1a.i/030110.b/008b0801.d



Data File: /chem/ecdl1a.i/030110.b/009f0901.d
 Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/009f0901.d
 Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
 Inj Date : 01-MAR-2010 06:59
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100104-21
 Misc Info :
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
 Meth Date : 01-Mar-2010 11:28 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 9 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1221.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221 CAS #: 11104-28-2						
2.031	2.031	0.000	4463092 1000.00	1010	80.00- 120.00	100.00
2.123	2.123	0.000	2494077 1000.00	1020	74.31- 114.31	55.88
2.149	2.149	0.000	10671634 1000.00	1020	528.48- 568.48	239.11
Average of Peak Amounts =			1.02e+03			

Data File: /chem/ecdl.a.i/030110.b/009f0901.d

Date: 01-MAR-2010 06:59

Client ID: AR122101

Sample Info: 1MAR100104-21

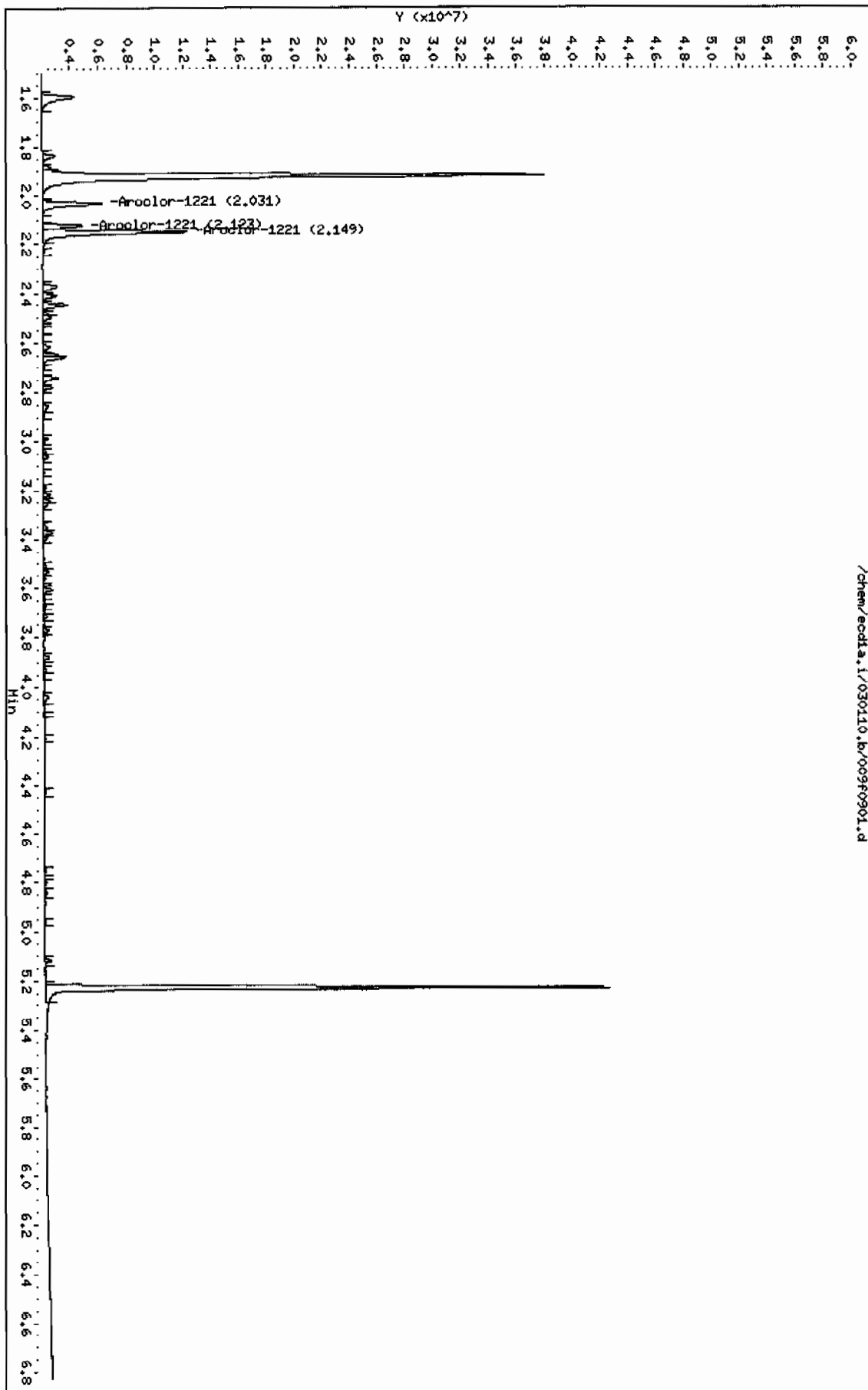
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25

/chem/ecdl.a.i/030110.b/009f0901.d



Data File: /chem/ecdla.i/030110.b/009b0901.d
Report Date: 01-Mar-2010 11:55

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/009b0901.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 01-MAR-2010 06:59

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 01-Mar-2010 11:24 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
2 Aroclor-1221			CAS #: 11104-28-2			
2.474	2.474	0.000	3481091 1000.00	1010	80.00- 120.00	100.00
2.569	2.569	0.000	2214332 1000.00	1030	43.61- 83.61	63.61
2.609	2.609	0.000	7624830 1000.00	1040	199.04- 239.04	219.04
Average of Peak Amounts =			1.03e+03			

Data File: /chem/ecdl1a.i/030110.b/009b0901.d

Date: 01-MAR-2010 06:59

Client ID: MR122101

Sample Info: 1MR100104-21

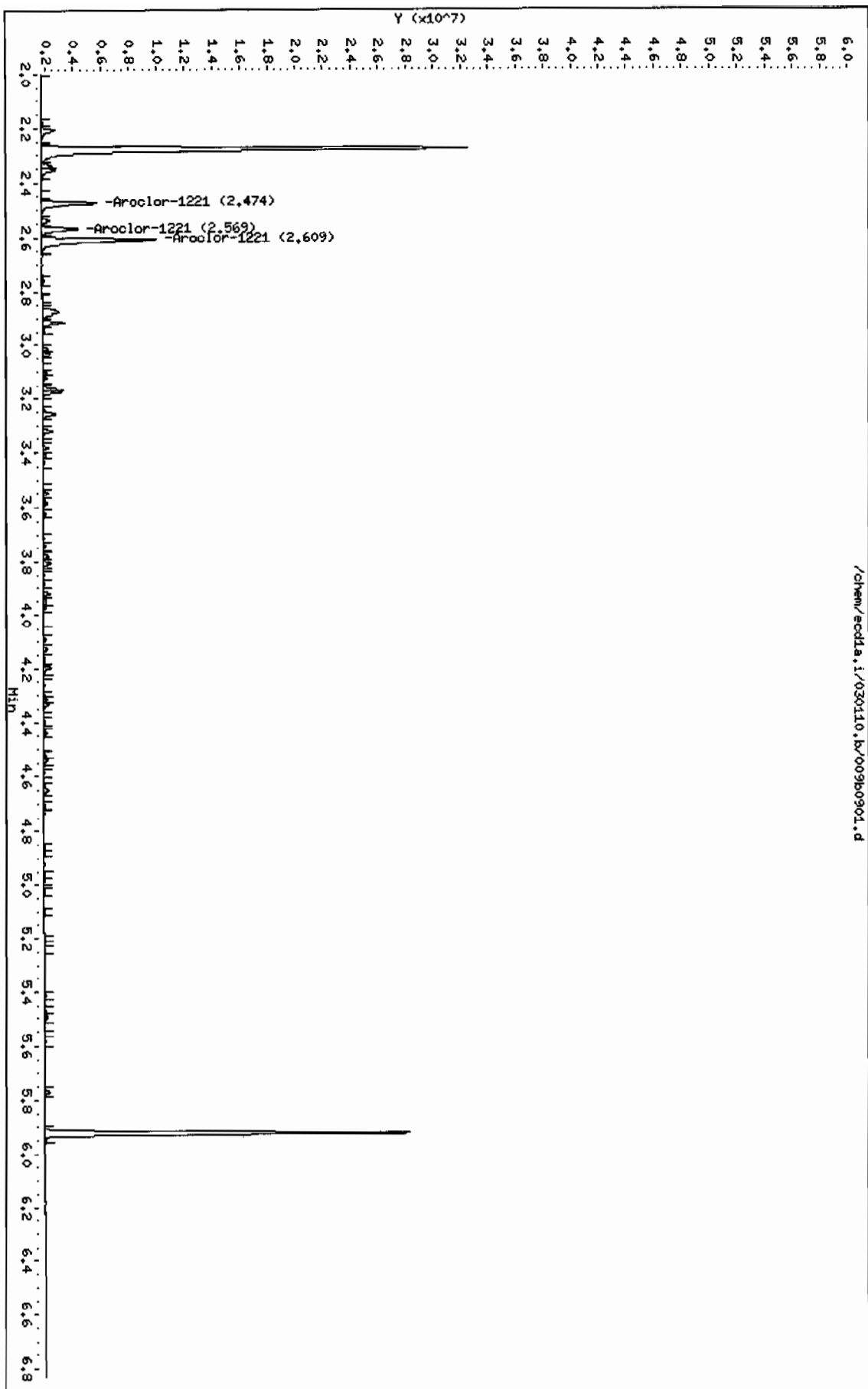
Column phase: CLP2

Instrument: ecdl1a.i

Operator: VSI

Column diameter: 0.25

/chem/ecdl1a.i/030110.b/009b0901.d



Data File: /chem/ecdl1.i/030110.b/036f3601.d
 Report Date: 01-Mar-2010 12:26

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/036f3601.d

Lab Smp Id: WAR100222-60 03

Client Smp ID: AR166003

Inj Date : 01-MAR-2010 12:12

Operator : YS1

Inst ID: ecd1.i

Smp Info : |WAR100222-60 03

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 12:26 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 36

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			
1.918	1.919	-0.001	39617960 100.000	92.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.224	5.227	-0.003	30940325 100.000	101	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.371	2.373	-0.002	13525352 1000.00	879	80.00- 120.00	100.00	
2.658	2.659	-0.001	17409149 1000.00	955	108.71- 148.71	128.71	
2.738	2.740	-0.002	11215104 1000.00	930	62.92- 102.92	82.92	
2.775	2.778	-0.003	6744345 1000.00	950	29.86- 69.86	49.86	
2.986	2.988	-0.002	8526333 1000.00	957	43.04- 83.04	63.04	
Average of Peak Amounts =				934			

7 Aroclor-1260				CAS #: 11096-82-5			
3.711	3.714	-0.003	16938785 1000.00	992	80.00- 120.00	100.00	
3.874	3.877	-0.003	25150227 1000.00	1060	128.48- 168.48	148.48	
4.035	4.039	-0.004	26981860 1000.00	1080	139.29- 179.29	159.29	
4.104	4.107	-0.003	15195981 1000.00	1050	69.71- 109.71	89.71	
4.247	4.250	-0.003	15770812 1000.00	1090	73.10- 113.10	93.10	
Average of Peak Amounts =				1.06e+03			

Data File: /chem/ecdl1a.i/030110.b/036f3601.d

Date : 01-MAR-2010 12:12

Client ID: AR166003

Sample Info: 1MAR100222-60 03

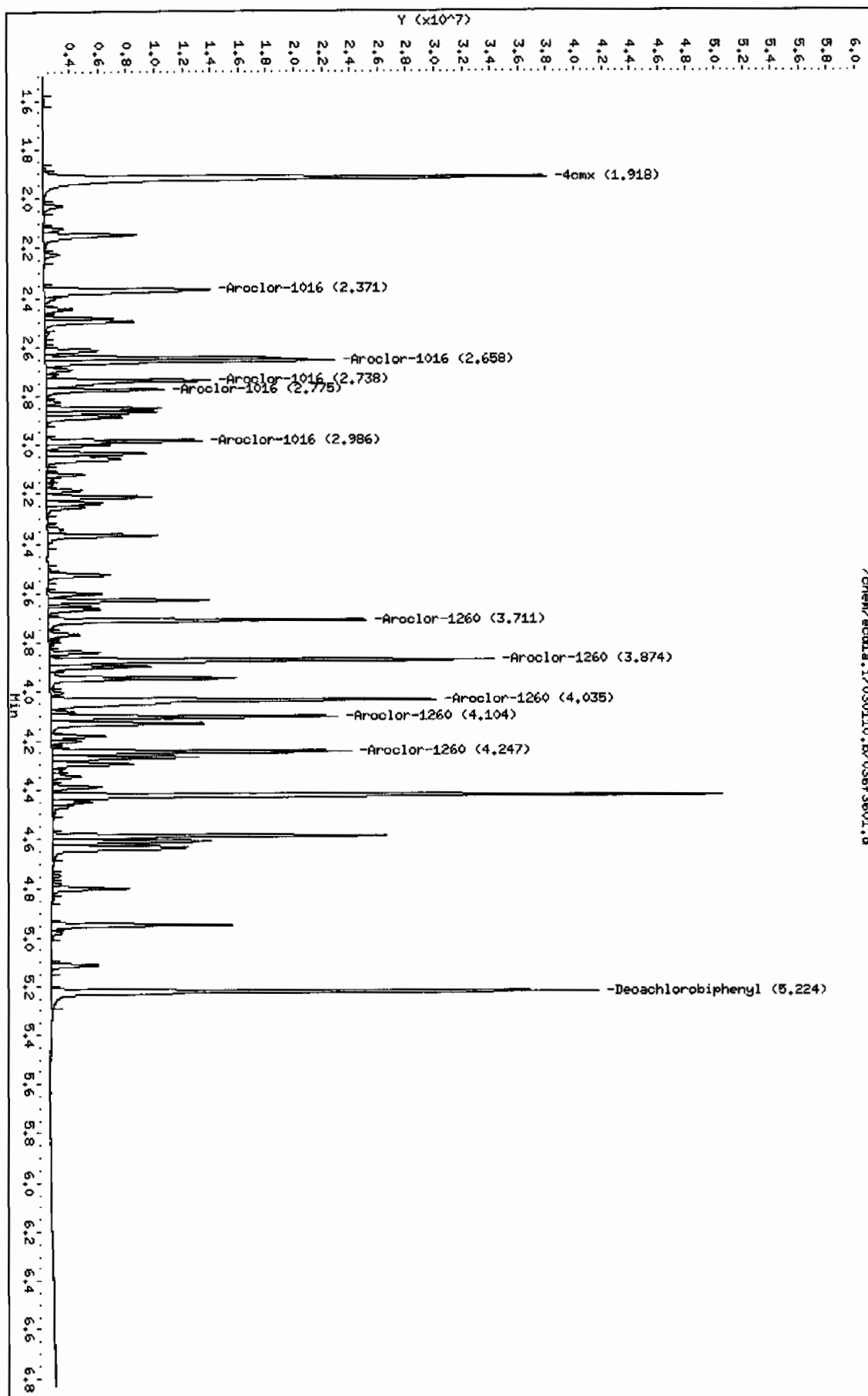
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YSA

Column diameter: 0.25

/chem/ecdl1a.i/030110.b/036f3601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/036b3601.d
 Lab Smp Id: WAR100222-60 03 Client Smp ID: AR166003
 Inj Date : 01-MAR-2010 12:12
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 03
 Misc Info :
 Comment :
 Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 12:26 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 36 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None
 Processing Host: hpclp1

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	

\$ 11 4cmx					CAS #: 877-09-8		
2.277	2.278	-0.001	27173135	100.000	91.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.920	5.923	-0.003	19557121	100.000	92.5	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
3.172	3.174	-0.002	12107372	1000.00	947	80.00- 120.00	100.00
3.255	3.257	-0.002	7984894	1000.00	895	45.95- 85.95	65.95
3.318	3.320	-0.002	5002187	1000.00	925	21.32- 61.32	41.32
3.545	3.547	-0.002	6462264	1000.00	934	33.37- 73.37	53.37
3.620	3.623	-0.003	5969635	1000.00	929	29.31- 69.31	49.31
Average of Peak Amounts =					926		

7 Aroclor-1260					CAS #: 11096-82-5		
4.310	4.314	-0.004	12142700	1000.00	920	80.00- 120.00	100.00
4.435	4.439	-0.004	14819175	1000.00	952	102.04- 142.04	122.04
4.701	4.704	-0.003	11142127	1000.00	941	71.76- 111.76	91.76
4.875	4.878	-0.003	11552713	1000.00	947	75.14- 115.14	95.14
5.022	5.024	-0.002	25985688	1000.00	980	194.00- 234.00	214.00
Average of Peak Amounts =					948		

Data File: /chem/eod1a.i/030110.b/036b3601.d

Date : 01-MAR-2010 12:12

Client ID: AR166003

Sample Info: 1MAR100222-60 03

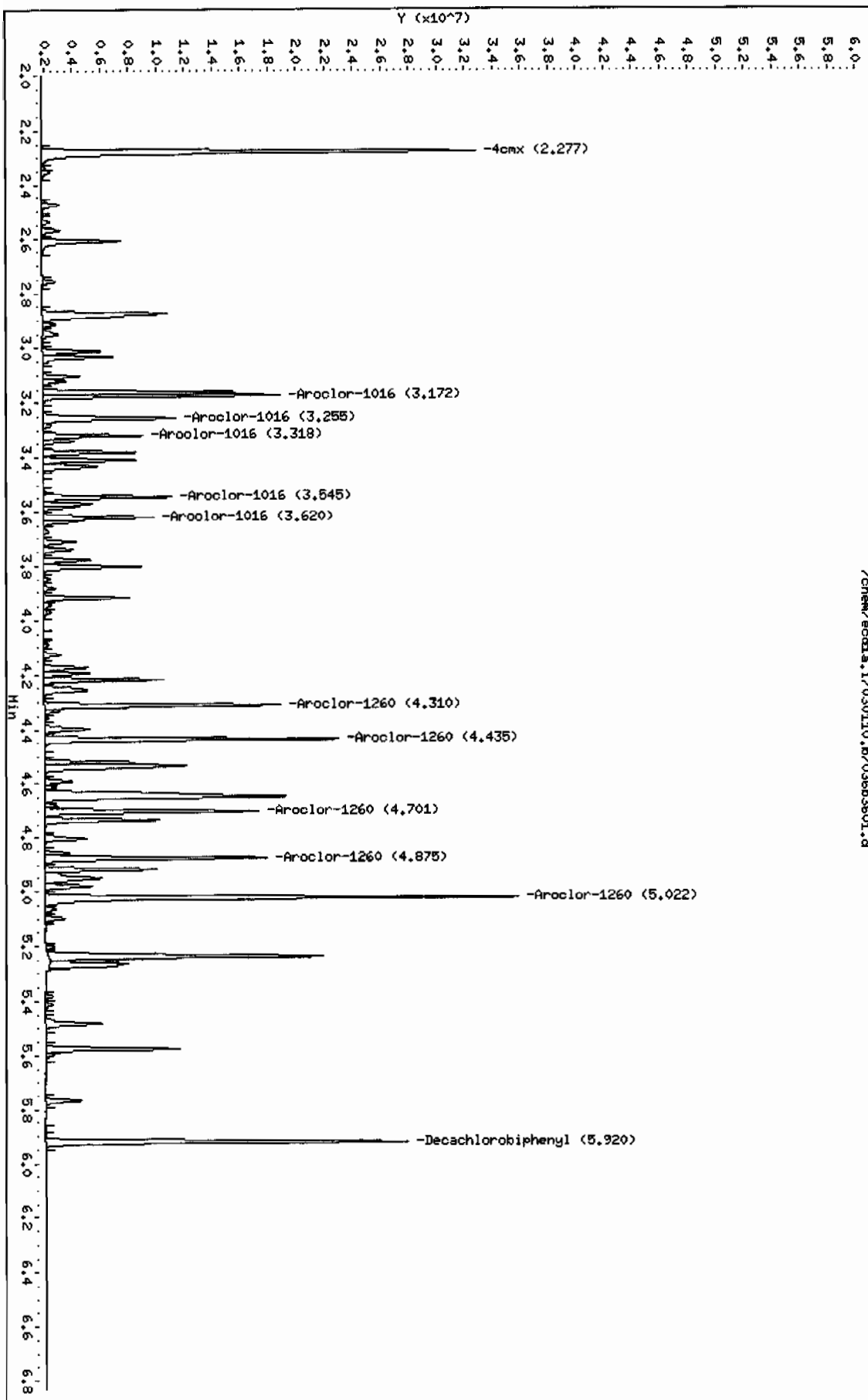
Column phase: CLP2

Instrument: eod1a.i

Operator: YSL

Column diameter: 0.25

/chem/eod1a.i/030110.b/036b3601.d



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/048f4801.d

Lab Smp Id: WAR100222-60 04

Client Smp ID: AR166004

Inj Date : 01-MAR-2010 14:35

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 04

Misc Info :

Comment :

Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:38 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 48

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			
1.918	1.919	-0.001	40617729	100.000	94.3	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.223	5.227	-0.004	31166188	100.000	101	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.371	2.373	-0.002	14316547	1000.00	930	80.00-	120.00	100.00
2.657	2.659	-0.002	17701542	1000.00	971	103.64-	143.64	123.64
2.737	2.740	-0.003	11565050	1000.00	958	60.78-	100.78	80.78
2.776	2.778	-0.002	6997176	1000.00	986	28.87-	68.87	48.87
2.986	2.988	-0.002	8944812	1000.00	1000	42.48-	82.48	62.48
Average of Peak Amounts =					970			

7 Aroclor-1260					CAS #: 11096-82-5			
3.711	3.714	-0.003	17183834	1000.00	1010	80.00-	120.00	100.00
3.873	3.877	-0.004	25694329	1000.00	1090	129.53-	169.53	149.53
4.035	4.039	-0.004	27241665	1000.00	1090	138.53-	178.53	158.53
4.104	4.107	-0.003	15504824	1000.00	1080	70.23-	110.23	90.23
4.246	4.250	-0.004	16087512	1000.00	1110	73.62-	113.62	93.62
Average of Peak Amounts =					1.08e+03			

Data File: /chem/ecdl1.i/030110.b/04874801.d

Date: 01-MAR-2010 14:35

Client ID: AR166004

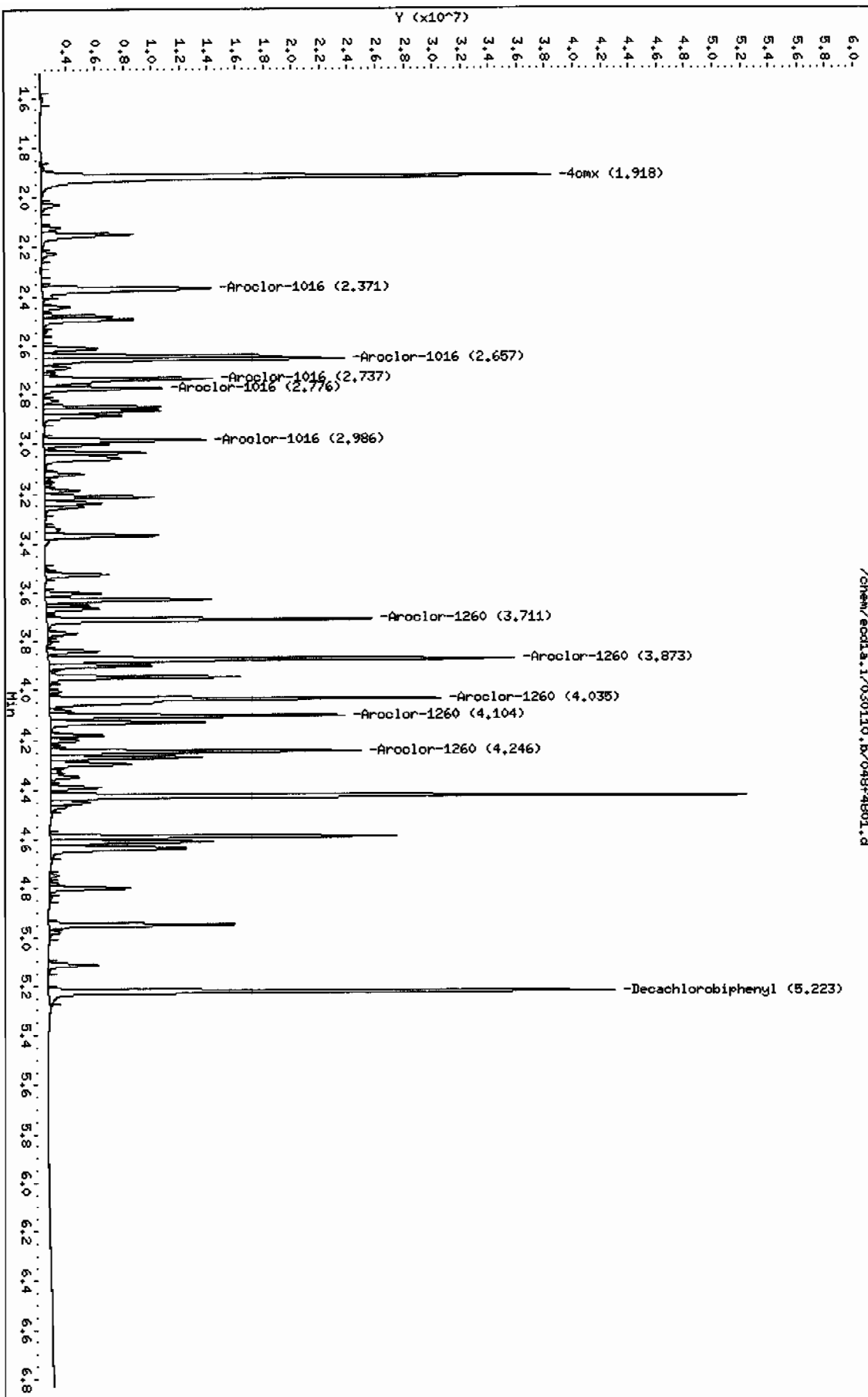
Sample Info: JMR100222-60 04

Column phase: CLP1

Instrument: ecdl1.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/048b4801.d

Lab Smp Id: WAR100222-60 04

Client Smp ID: AR166004

Inj Date : 01-MAR-2010 14:35

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 04

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:38 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 48

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			
2.277	2.278	-0.001	27966569	100.000	94.0	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.919	5.923	-0.004	20032132	100.000	94.7	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.171	3.174	-0.003	12335546	1000.00	964	80.00-	120.00	100.00
3.255	3.257	-0.002	8263559	1000.00	927	46.99-	86.99	66.99
3.318	3.320	-0.002	5158530	1000.00	954	21.82-	61.82	41.82
3.545	3.547	-0.002	6685217	1000.00	967	34.19-	74.19	54.19
3.621	3.623	-0.002	6241224	1000.00	971	30.60-	70.60	50.60
Average of Peak Amounts =					957			

7 Aroclor-1260					CAS #: 11096-82-5			
4.311	4.314	-0.003	12476487	1000.00	945	80.00-	120.00	100.00
4.435	4.439	-0.004	15274343	1000.00	981	102.43-	142.43	122.43
4.701	4.704	-0.003	11447910	1000.00	966	71.76-	111.76	91.76
4.874	4.878	-0.004	11901932	1000.00	975	75.39-	115.39	95.39
5.021	5.024	-0.003	26671689	1000.00	1000	193.78-	233.78	213.78
Average of Peak Amounts =					975			

Data File: /chem/ecdl1a.i/030110.lv/048b4801.d

Date: 01-MAR-2010 14:35

Client ID: AR166004

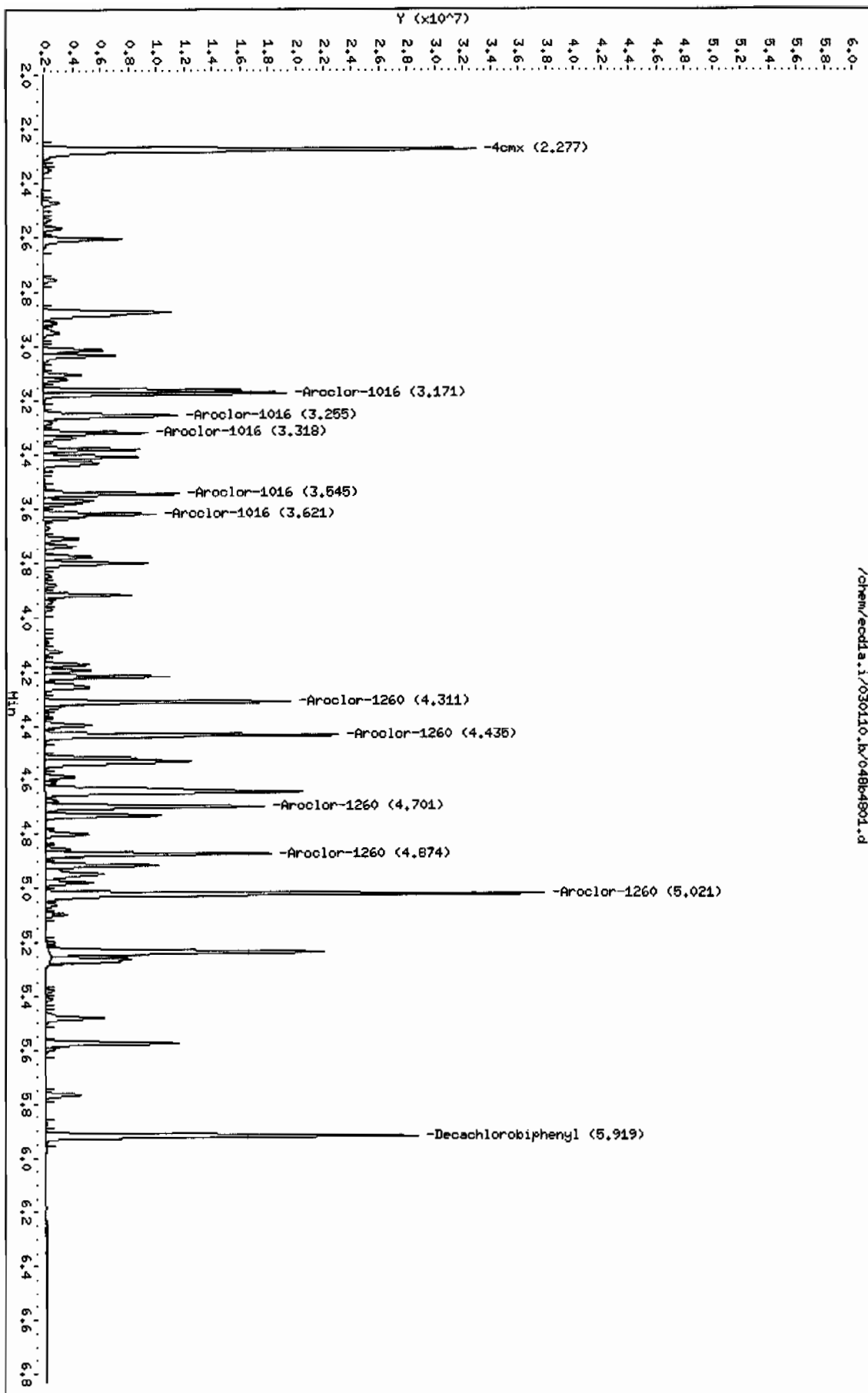
Sample Info: IMAR100222-60 04

Column phase: CLP2

Instrument: ecdl1a.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/055f5501.d

Lab Smp Id: WAR100222-60 05

Client Smp ID: AR166005

Inj Date : 01-MAR-2010 15:59

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 05

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:43 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 55

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
<hr/>								
\$ 11 4cmx					CAS #: 877-09-8			
1.917	1.919	-0.002	40087052	100.000	93.1	80.00-	120.00	100.00
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.224	5.227	-0.003	31186234	100.000	101	80.00-	120.00	100.00
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
2.369	2.373	-0.004	13715233	1000.00	892	80.00-	120.00	100.00
2.657	2.659	-0.002	17422148	1000.00	955	107.66-	147.66	127.03
2.737	2.740	-0.003	11372597	1000.00	942	60.84-	100.84	82.92
2.775	2.778	-0.003	6869385	1000.00	968	28.62-	68.62	50.09
2.985	2.988	-0.003	8675648	1000.00	973	41.66-	81.66	63.26
Average of Peak Amounts =					946			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
3.712	3.714	-0.002	17202583	1000.00	1010	80.00-	120.00	100.00
3.874	3.877	-0.003	25581062	1000.00	1080	130.18-	170.18	148.70
4.037	4.039	-0.002	27240169	1000.00	1090	139.75-	179.75	158.35
4.105	4.107	-0.002	15422358	1000.00	1070	70.51-	110.51	89.65
4.247	4.250	-0.003	16053358	1000.00	1110	74.15-	114.15	93.32
Average of Peak Amounts =					1.07e+03			

Data File: /chem/ecdl.a.i/030110.b/055f5501.d

Date : 01-MAR-2010 15:59

Client ID: AR466005

Sample Info: 1MAR000222-60 05

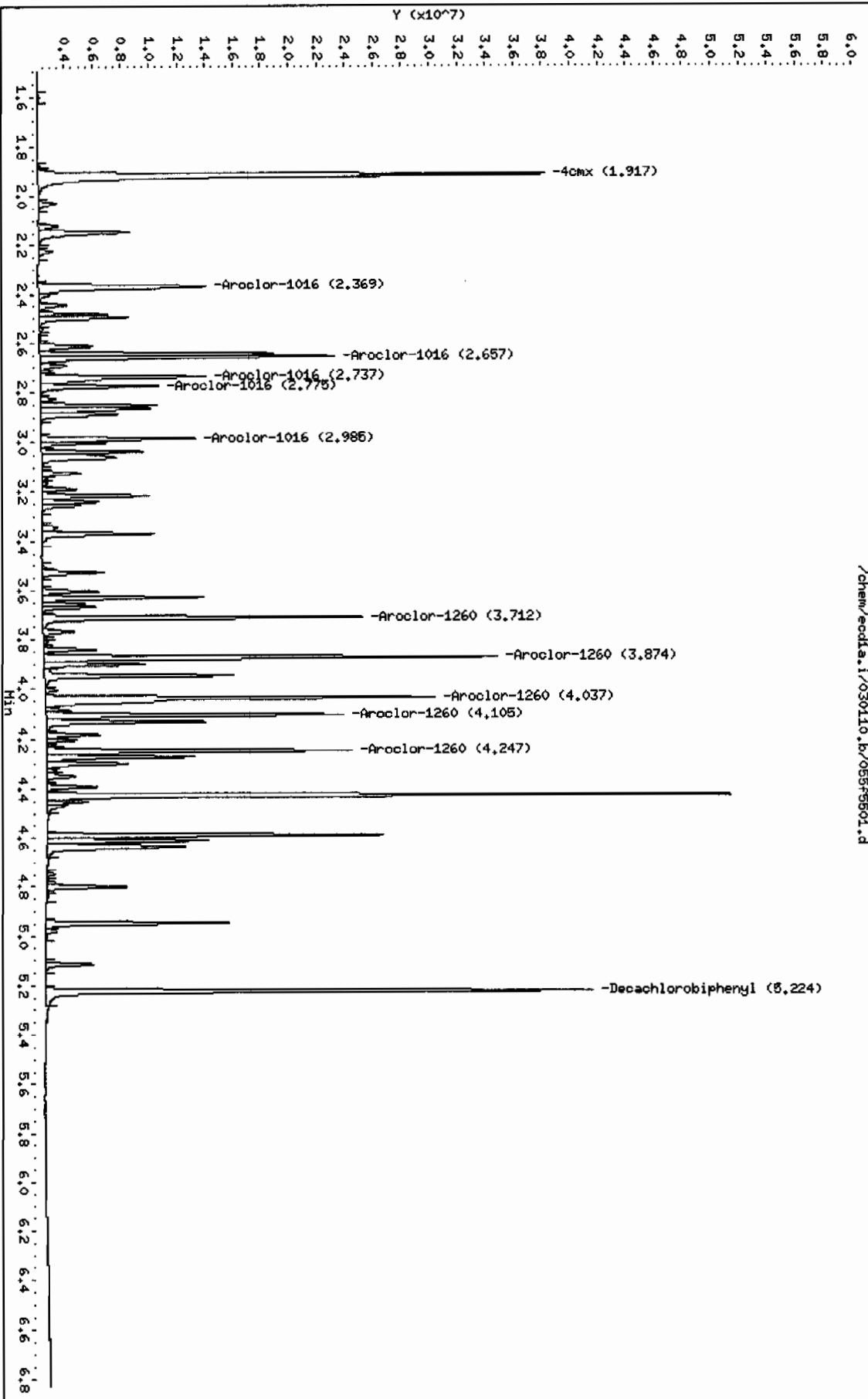
Column phase: CLP1

Instrument: ecdl.a.i

Operator: YS1

Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/055b5501.d

Lab Smp Id: WAR100222-60 05

Client Smp ID: AR166005

Inj Date : 01-MAR-2010 15:59

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100222-60 05

Misc Info :

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:45 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 55

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		
2.276	2.278	-0.002	27622069 100.000	92.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl						
				CAS #: 2051-24-3		
5.920	5.923	-0.003	19976109 100.000	94.4	80.00- 120.00	100.00

1 Aroclor-1016						
				CAS #: 12674-11-2		
3.172	3.174	-0.002	12227620 1000.00	956	80.00- 120.00	100.00 (M)
3.254	3.257	-0.003	8139754 1000.00	913	46.57- 86.57	66.57
3.318	3.320	-0.002	5085619 1000.00	941	21.59- 61.59	41.59
3.545	3.547	-0.002	6369970 1000.00	921	32.09- 72.09	52.09
3.621	3.623	-0.002	6103953 1000.00	950	29.92- 69.92	49.92
Average of Peak Amounts =				936		

7 Aroclor-1260						
				CAS #: 11096-82-5		
4.312	4.314	-0.002	12349358 1000.00	935	80.00- 120.00	100.00
4.437	4.439	-0.002	15116766 1000.00	971	102.41- 142.41	122.41
4.702	4.704	-0.002	11375494 1000.00	960	72.11- 112.11	92.11
4.875	4.878	-0.003	11867809 1000.00	973	76.10- 116.10	96.10
5.022	5.024	-0.002	26547824 1000.00	1000	194.97- 234.97	214.97
Average of Peak Amounts =				968		

Data File: /chem/ecdl1a.i/030110.b/055b5501.d
Report Date: 02-Mar-2010 06:45

Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1a.i/030110.b/055b5501.d

Date: 01-MAR-2010 15:59

Client ID: AR16005

Sample Info: 1MAR000222-60 05

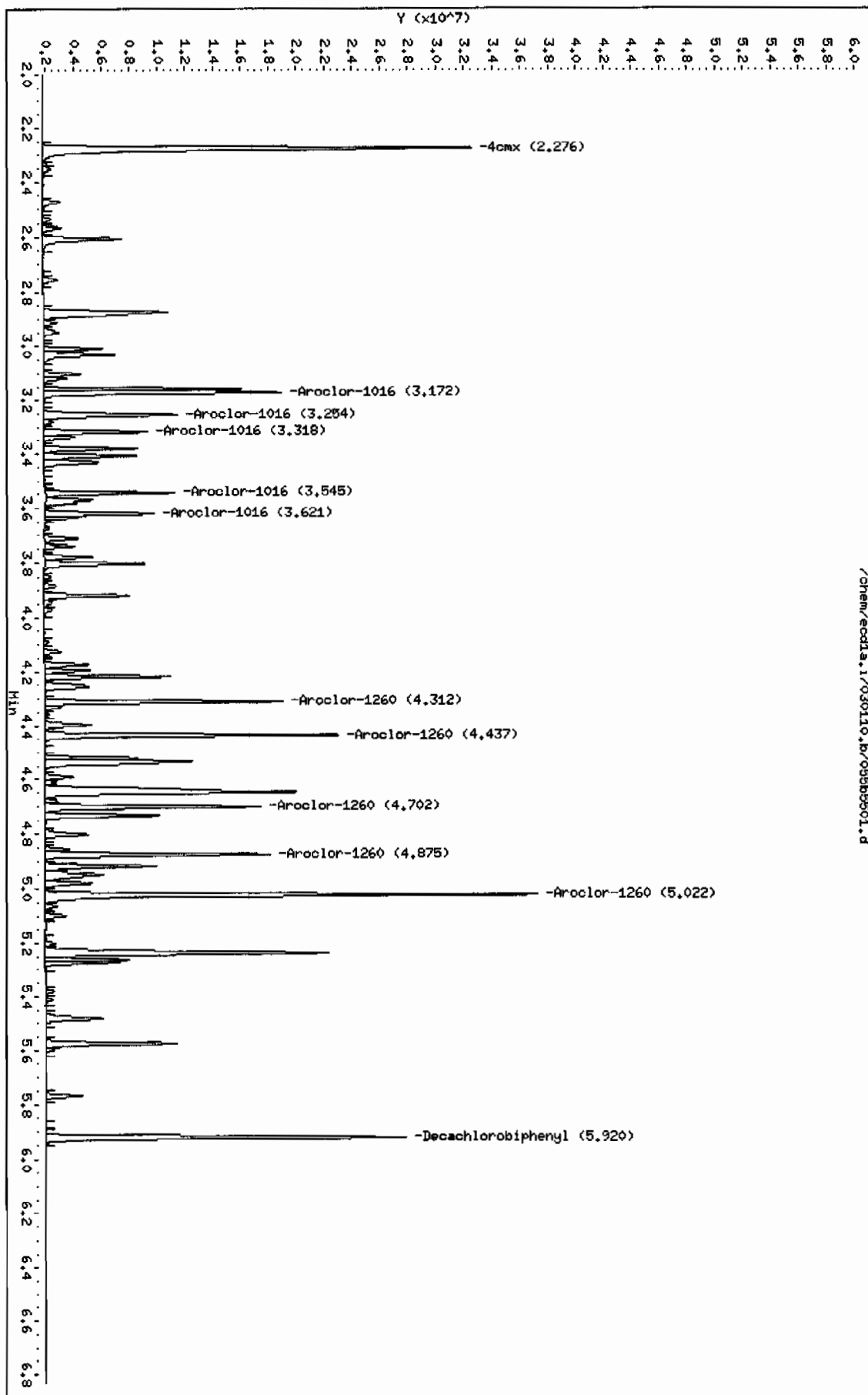
Column phase: CLP2

Instrument: ecdl1a.i

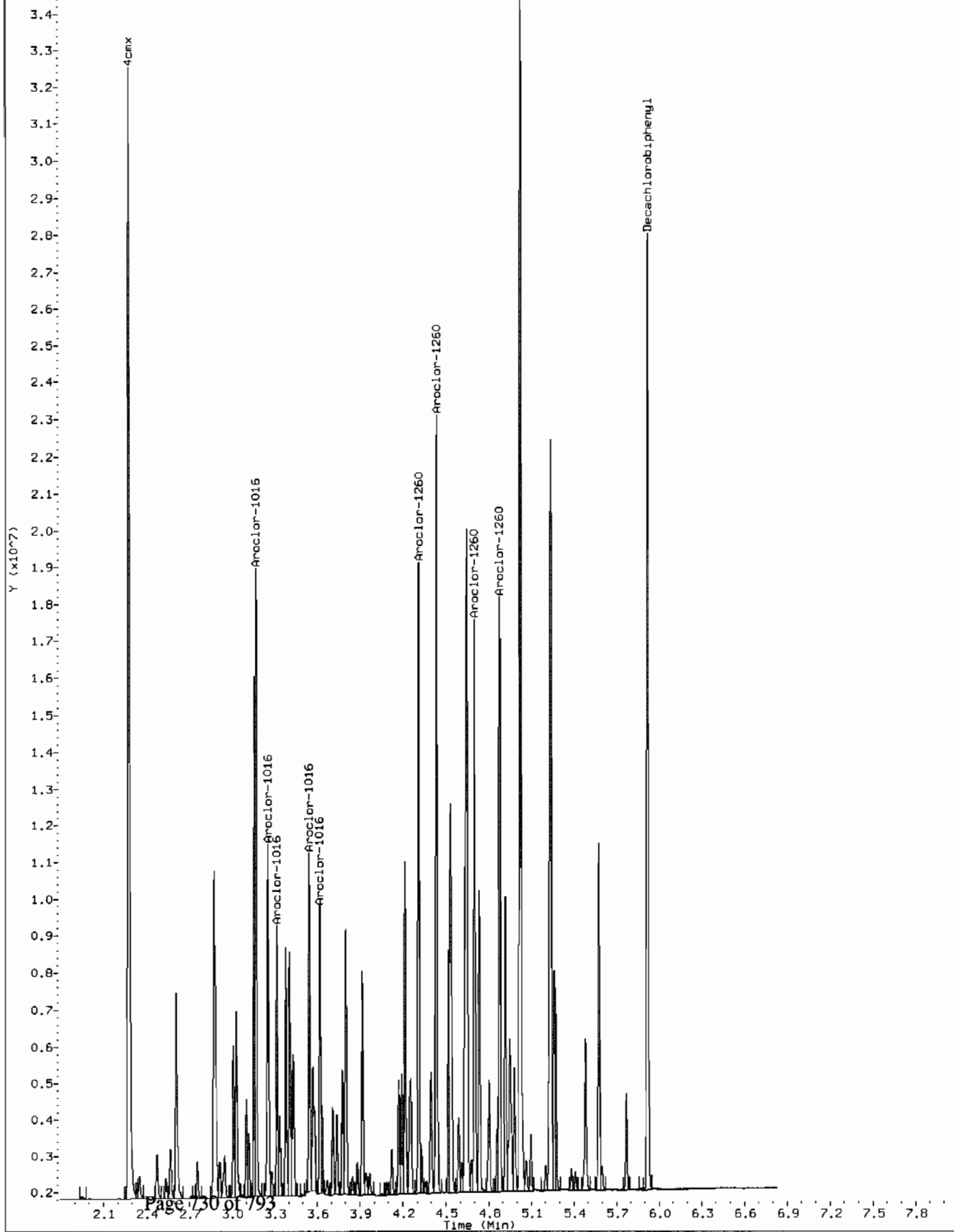
Operator: YSL

Column diameter: 0.25

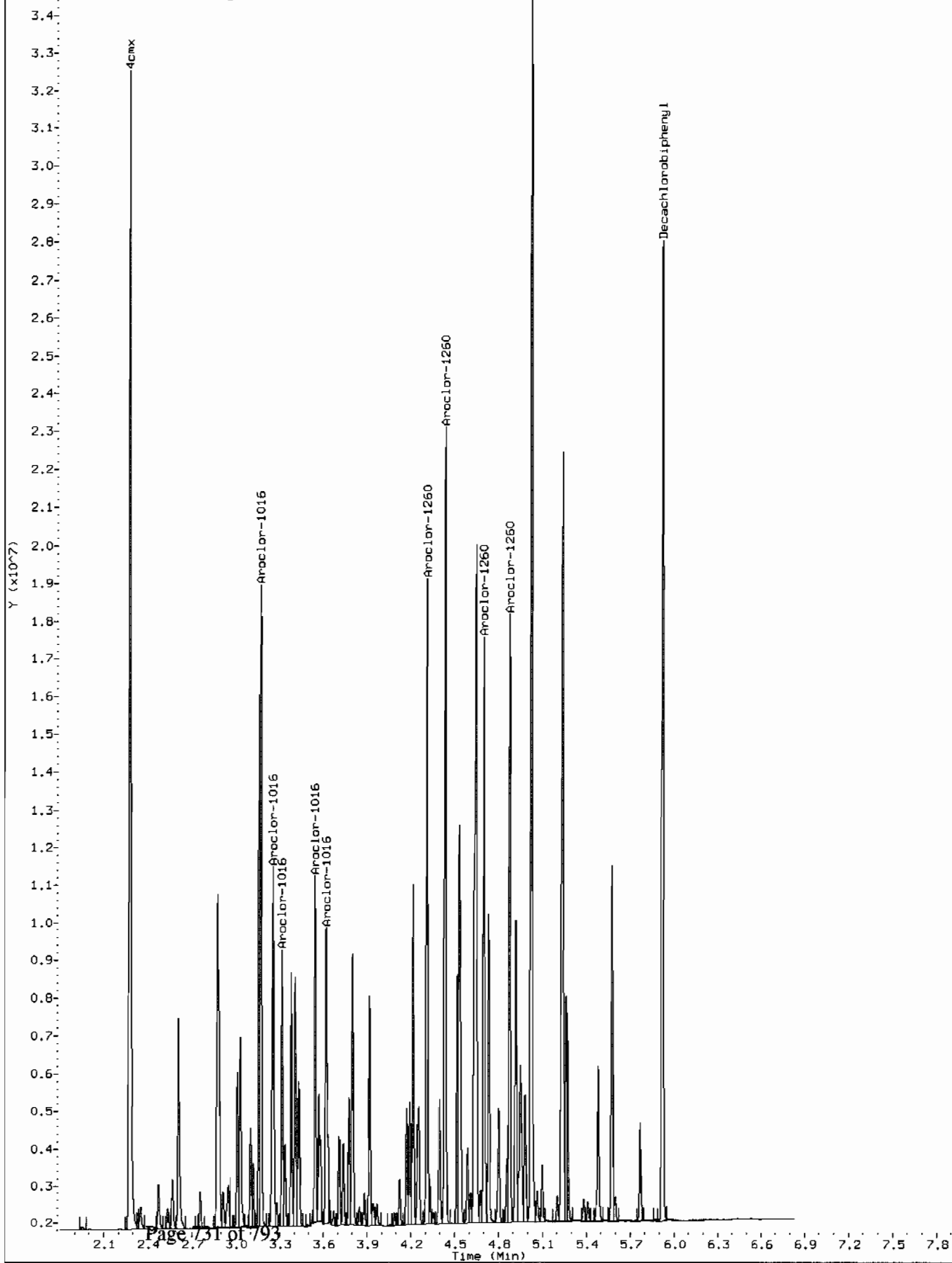
/chem/ecdl1a.i/030110.b/055b5501.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/055b5501.d
Operator: YS1
Injection Date: 01-MAR-2010 15:59
Instrument: ecld1a.i
Client Sample ID: AR166005



Comment: Before manual integration
Data File: /chem/ecdl1a.i/030110.b/Orig-055b5501.d
Operator: YS1
Injection Date: 01-MAR-2010 15:59
Instrument: ecd1a.i
Client Sample ID: AR166005



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/064f6401.d

Lab Smp Id: WAR100222-60 06

Client Smp ID: AR166006

Inj Date : 01-MAR-2010 17:53

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100222-60 06

Misc Info :

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d

Als bottle: 64 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		
1.918	1.919	-0.001	39725044 100.000	92.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.227	-0.004	30373956 100.000	98.8	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.373	-0.002	14001397 1000.00	910	80.00- 120.00	100.00
2.658	2.659	-0.001	17873745 1000.00	980	110.29- 150.29	127.66
2.738	2.740	-0.002	11318526 1000.00	938	62.85- 102.85	80.84
2.775	2.778	-0.003	6806827 1000.00	959	29.99- 69.99	48.62
2.985	2.988	-0.003	8633110 1000.00	969	43.89- 83.89	61.66
Average of Peak Amounts =				951		

7 Aroclor-1260				CAS #: 11096-82-5		
3.711	3.714	-0.003	16785341 1000.00	983	80.00- 120.00	100.00
3.873	3.877	-0.004	25208398 1000.00	1070	129.88- 169.88	150.18
4.035	4.039	-0.004	26814029 1000.00	1070	140.76- 180.76	159.75
4.103	4.107	-0.004	15193036 1000.00	1050	70.44- 110.44	90.51
4.246	4.250	-0.004	15803008 1000.00	1100	74.18- 114.18	94.15
Average of Peak Amounts =				1.05e+03		

Data File: /chem/ecdl1a.i/030110.b/064f6401.d

Date: 01-MAR-2010 17:53

Client ID: AR166006

Sample Info: MAR100222-60 06

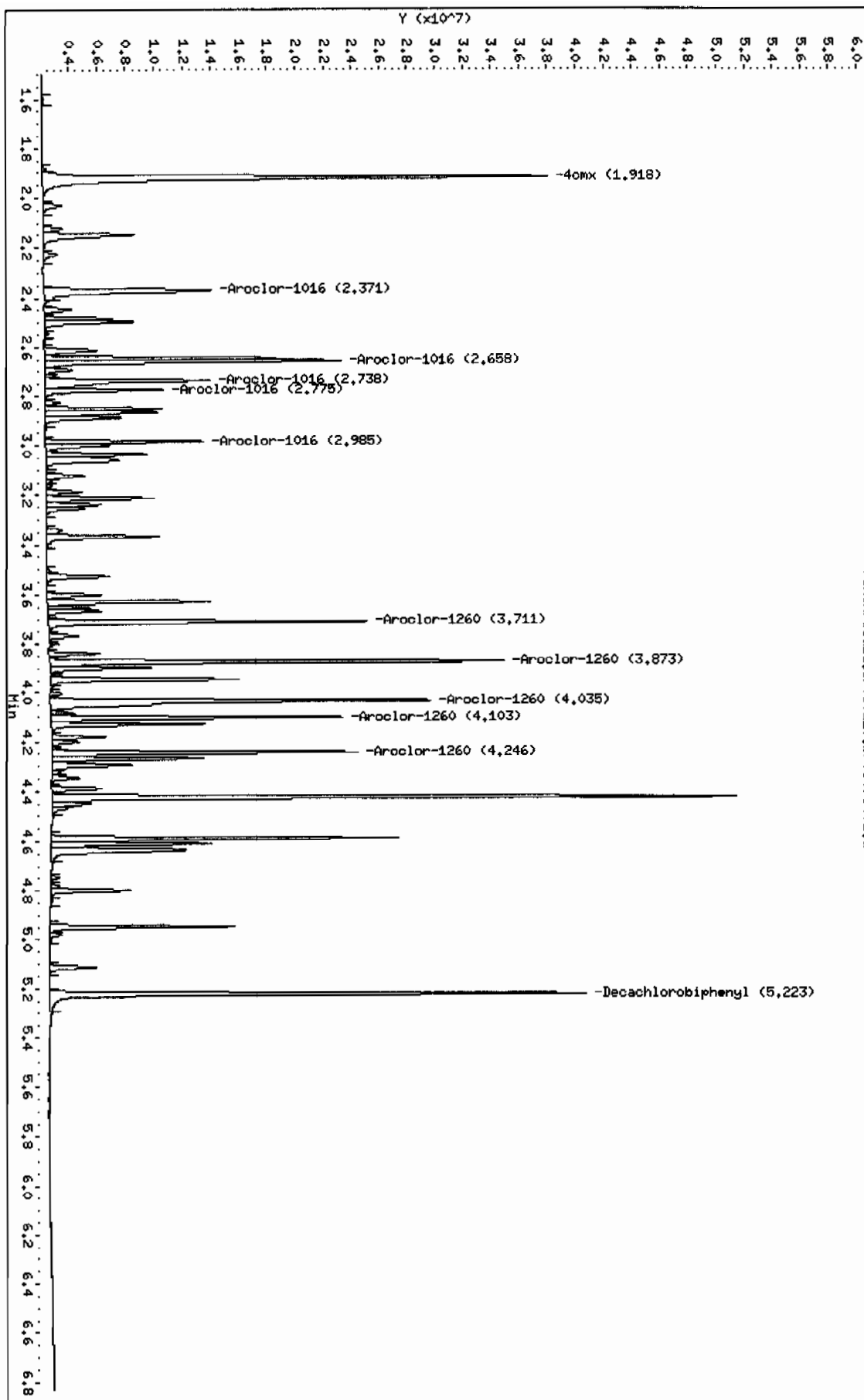
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YS1

Column diameter: 0.25

/chem/ecdl1a.i/030110.b/064f6401.d



Data File: /chem/ecdl1.i/030110.b/064b6401.d
 Report Date: 02-Mar-2010 07:27

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/064b6401.d
 Lab Smp Id: WAR100222-60 06 Client Smp ID: AR166006
 Inj Date : 01-MAR-2010 17:53
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |WAR100222-60 06
 Misc Info :
 Comment :
 Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 64 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			
2.278	2.278	0.000	27309446	100.000	91.8	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.918	5.923	-0.005	19919513	100.000	94.2	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.172	3.174	-0.002	12181240	1000.00	952	80.00-	120.00	100.00 (M)
3.254	3.257	-0.003	8065299	1000.00	904	46.21-	86.21	66.21
3.318	3.320	-0.002	5047029	1000.00	934	21.43-	61.43	41.43
3.545	3.547	-0.002	6578021	1000.00	951	34.00-	74.00	54.00
3.620	3.623	-0.003	6091101	1000.00	948	30.00-	70.00	60.30
Average of Peak Amounts =					938			

7 Aroclor-1260					CAS #: 11096-82-5			
4.310	4.314	-0.004	12285327	1000.00	930	80.00-	120.00	100.00
4.435	4.439	-0.004	15011617	1000.00	964	102.19-	142.19	122.19
4.701	4.704	-0.003	11315020	1000.00	955	72.10-	112.10	92.10
4.873	4.878	-0.005	11828319	1000.00	969	76.28-	116.28	96.28
5.021	5.024	-0.003	26391121	1000.00	995	194.82-	234.82	214.82
Average of Peak Amounts =					963			

Data File: /chem/ecdl1a.i/030110.b/064b6401.d
Report Date: 02-Mar-2010 07:27

Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/030110.b/064b6401.d

Date: 01-MAR-2010 17:53

Client ID: AR166006

Sample Info: IAR100222-60 06

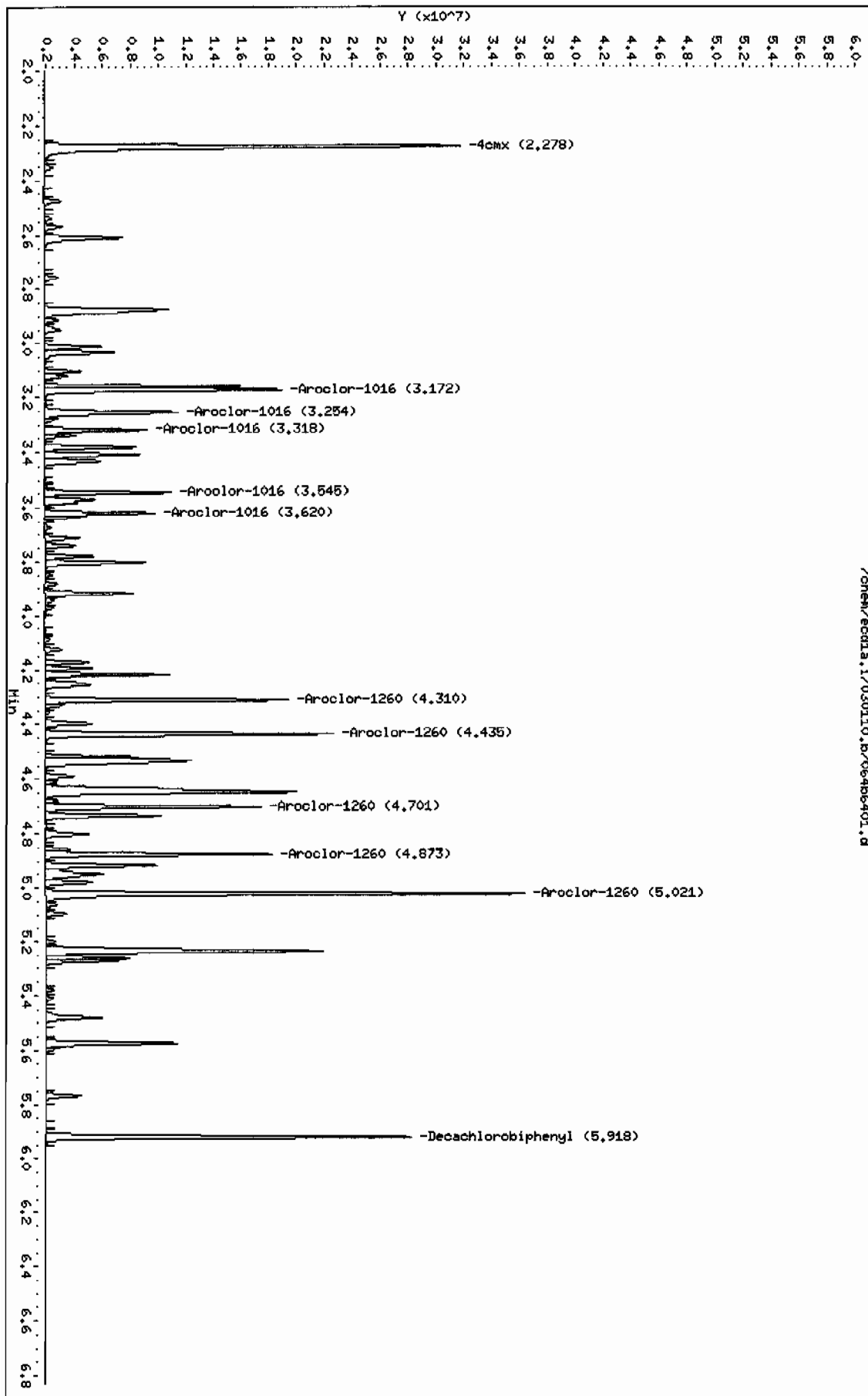
Column Phase: CLP2

Instrument: ecdl1.i

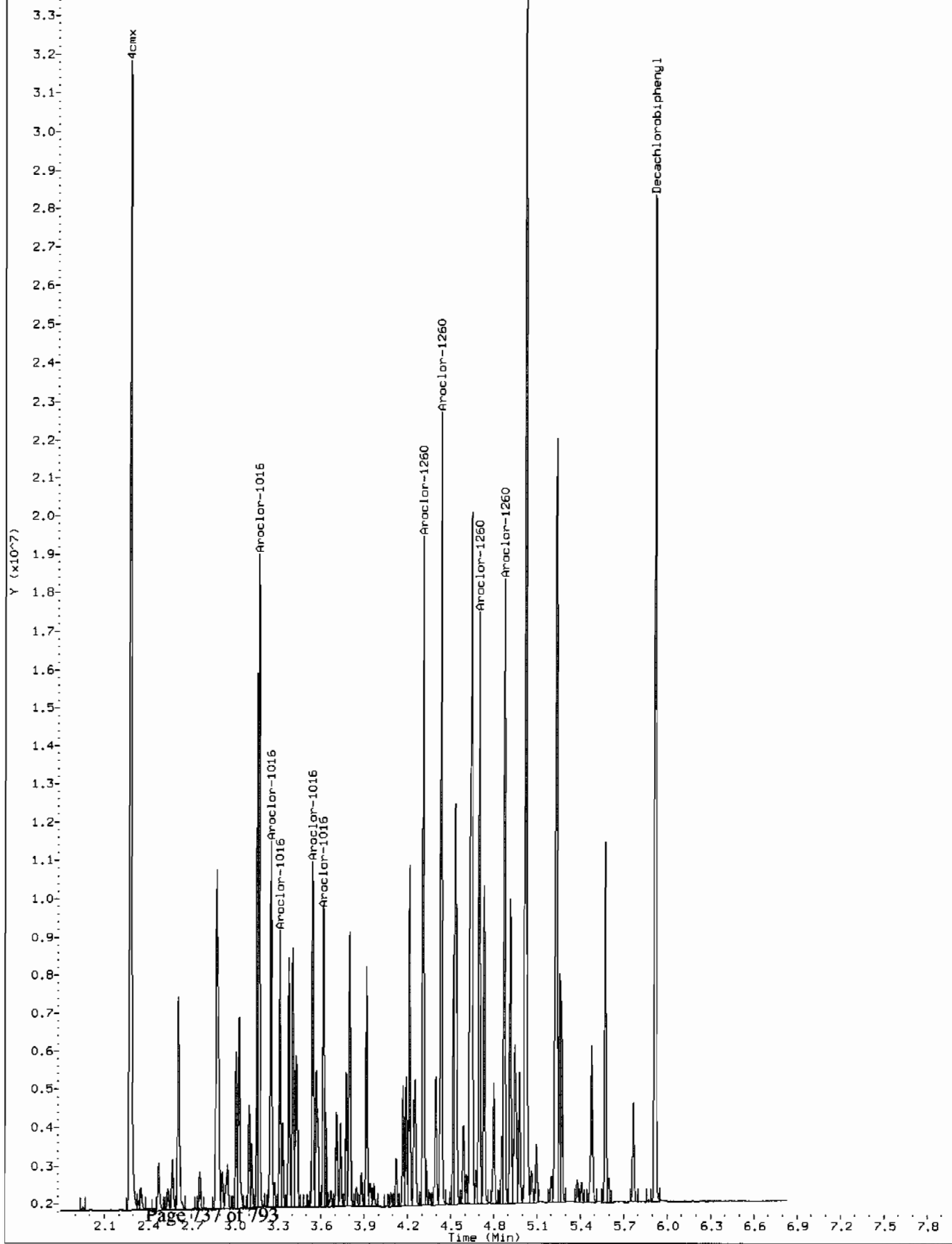
Operator: YS1

Column diameter: 0.25

/chem/ecdl1.i/030110.b/064b6401.d



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/64b6401.d
Operator: YS1
Injection Date: 01-MAR-2010 17:53
Instrument: ecd1a.i
Client Sample ID: AR166006



Comment: Before manual integration

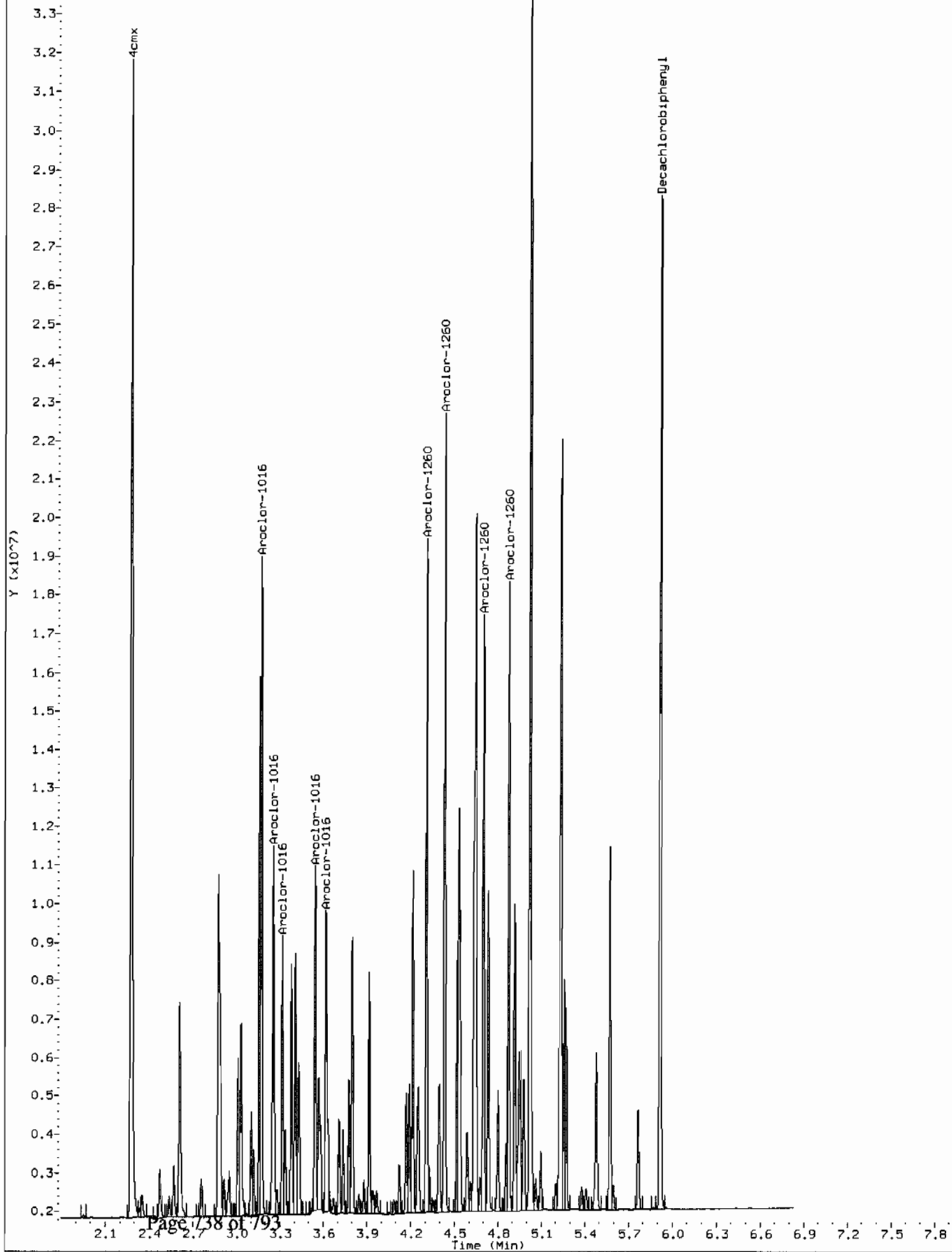
Data File: /chem/ecdl1a.i/030110.b/Orig-064b6401.d

Operator: YS1

Injection Date: 01-MAR-2010 17:53

Instrument: ecd1a.i

Client Sample ID: AR166006



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.: 10-1982

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

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: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/22/10 0559	1.92	5.23	
02	ZZZZZ	ZZZZZ	02/22/10 0610	1.92	5.23	
03	ZZZZZ	ZZZZZ	02/22/10 0620	1.92	5.23	
04	DDTANALOGSTD	WAR091219-DD	02/22/10 0631			
05	AR123201	WAR100104-32	02/22/10 0641			
06	AR122101	WAR100104-21	02/22/10 0652			
07	AR126201	WAR100104-62	02/22/10 0703			
08	AR166001	WAR100222-01	02/22/10 0713	1.92	5.23	
09	AR166002	WAR100222-02	02/22/10 0724	1.92	5.23	
10	AR166003	WAR100222-03	02/22/10 0734	1.92	5.23	
11	AR166004	WAR100222-04	02/22/10 0745	1.92	5.23	
12	AR166005	IAR100104-01	02/22/10 0755	1.92	5.23	
13	AR166001	WAR100203-60	02/22/10 0806	1.92	5.23	
14	AR125401	WAR100222-05	02/22/10 0816			
15	AR125402	WAR100222-06	02/22/10 0827			
16	AR125403	WAR100222-07	02/22/10 0837			
17	AR125404	WAR100222-08	02/22/10 0848			
18	AR125405	IAR100219-02	02/22/10 0859			
19	AR125401	WAR100219-54	02/22/10 0909			
20	AR124201	WAR100222-09	02/22/10 0920			
21	AR124202	WAR100222-10	02/22/10 0930			
22	AR124203	WAR100222-11	02/22/10 0941			
23	AR124204	WAR100222-12	02/22/10 0951			
24	AR124205	IAR100219-01	02/22/10 1002			
25	AR124201	WAR100219-42	02/22/10 1012			
26	AR124801	WAR100222-13	02/22/10 1023			
27	AR124802	WAR100222-14	02/22/10 1033			
28	AR124803	WAR100222-15	02/22/10 1044			
29	AR124805	IAR100211-01	02/22/10 1054			
30	AR124804	WAR100222-16	02/22/10 1105			
31	AR124801	WAR091217-48	02/22/10 1116			
32	AR126801	WAR100222-17	02/22/10 1126			

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.: 10-1982

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

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: 5.23			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR126802	WAR100222-18	02/22/10 1137		
02	AR126803	WAR100222-19	02/22/10 1147		
03	AR126804	WAR100222-20	02/22/10 1158		
04	AR126805	IAR100104-05	02/22/10 1208		
05	AR126801	WAR100107-68	02/22/10 1219		
06	PIBLK02	WAR100219-99	02/22/10 1229	1.92	5.23
07	ZZZZZ	ZZZZZ	02/22/10 1240	1.92	5.23
08	ZZZZZ	ZZZZZ	02/22/10 1250	1.93	5.23
09	ZZZZZ	ZZZZZ	02/22/10 1301	1.92	5.23
10	ZZZZZ	ZZZZZ	02/22/10 1314	1.92	5.23
11	ZZZZZ	ZZZZZ	02/22/10 1326	1.92	5.23
12	ZZZZZ	ZZZZZ	02/22/10 1339	1.92	5.23
13	ZZZZZ	ZZZZZ	02/22/10 1351	1.92	5.23
14	ZZZZZ	ZZZZZ	02/22/10 1404	1.92	5.23
15	ZZZZZ	ZZZZZ	02/22/10 1417	1.92	5.23
16	ZZZZZ	ZZZZZ	02/22/10 1430	1.92	5.23
17	AR166002	WAR100203-60	02/22/10 1442	1.92	5.23
18	PIBLK03	WAR100219-99	02/22/10 1453	1.92	5.23
19	ZZZZZ	ZZZZZ	02/22/10 1503	1.92	5.23
20	ZZZZZ	ZZZZZ	02/22/10 1516	1.92	5.23
21	ZZZZZ	ZZZZZ	02/22/10 1528	1.92	5.23
22	ZZZZZ	ZZZZZ	02/22/10 1541	1.92	5.23
23	ZZZZZ	ZZZZZ	02/22/10 1554	1.92	5.23
24	ZZZZZ	ZZZZZ	02/22/10 1606	1.92	5.23
25	ZZZZZ	ZZZZZ	02/22/10 1619	1.92	5.23
26	ZZZZZ	ZZZZZ	02/22/10 1632	1.92	5.23
27	ZZZZZ	ZZZZZ	02/22/10 1644	1.92	5.23
28	ZZZZZ	ZZZZZ	02/22/10 1657	1.92	5.23
29	AR166003	WAR100203-60	02/22/10 1710	1.92	5.23
30	PIBLK04	WAR100219-99	02/22/10 1722	1.92	5.23
31	ZZZZZ	ZZZZZ	02/22/10 1735	1.92	5.23
32	ZZZZZ	ZZZZZ	02/22/10 1748	1.92	5.23

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.

page 2 of 2

FORM VIII PEST

OLM03.0

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.: 10-1982

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/22/10	0559	2.29	5.93
02	ZZZZZ	ZZZZZ	02/22/10	0610	2.29	5.94
03	ZZZZZ	ZZZZZ	02/22/10	0620	2.29	5.94
04	DDTANALOGSTD	WAR091219-DD	02/22/10	0631		
05	AR123201	WAR100104-32	02/22/10	0641		
06	AR122101	WAR100104-21	02/22/10	0652		
07	AR126201	WAR100104-62	02/22/10	0703		
08	AR166001	WAR100222-01	02/22/10	0713	2.29	5.94
09	AR166002	WAR100222-02	02/22/10	0724	2.29	5.94
10	AR166003	WAR100222-03	02/22/10	0734	2.29	5.94
11	AR166004	WAR100222-04	02/22/10	0745	2.29	5.94
12	AR166005	IAR100104-01	02/22/10	0755	2.29	5.94
13	AR166001	WAR100203-60	02/22/10	0806	2.29	5.94
14	AR125401	WAR100222-05	02/22/10	0816		
15	AR125402	WAR100222-06	02/22/10	0827		
16	AR125403	WAR100222-07	02/22/10	0837		
17	AR125404	WAR100222-08	02/22/10	0848		
18	AR125405	IAR100219-02	02/22/10	0859		
19	AR125401	WAR100219-54	02/22/10	0909		
20	AR124201	WAR100222-09	02/22/10	0920		
21	AR124202	WAR100222-10	02/22/10	0930		
22	AR124203	WAR100222-11	02/22/10	0941		
23	AR124204	WAR100222-12	02/22/10	0951		
24	AR124205	IAR100219-01	02/22/10	1002		
25	AR124201	WAR100219-42	02/22/10	1012		
26	AR124801	WAR100222-13	02/22/10	1023		
27	AR124802	WAR100222-14	02/22/10	1033		
28	AR124803	WAR100222-15	02/22/10	1044		
29	AR124805	IAR100211-01	02/22/10	1054		
30	AR124804	WAR100222-16	02/22/10	1105		
31	AR124801	WAR091217-48	02/22/10	1116		
32	AR126801	WAR100222-17	02/22/10	1126		

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.: 10-1982

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.29			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
01	AR126802	WAR100222-18	02/22/10	1137		
02	AR126803	WAR100222-19	02/22/10	1147		
03	AR126804	WAR100222-20	02/22/10	1158		
04	AR126805	IAR100104-05	02/22/10	1208		
05	AR126801	WAR100107-68	02/22/10	1219		
06	PIBLK02	WAR100219-99	02/22/10	1229	2.29	5.94
07	ZZZZZ	ZZZZZ	02/22/10	1240	2.29	5.94
08	ZZZZZ	ZZZZZ	02/22/10	1250	2.29	5.94
09	ZZZZZ	ZZZZZ	02/22/10	1301	2.29	5.94
10	ZZZZZ	ZZZZZ	02/22/10	1314	2.29	5.94
11	ZZZZZ	ZZZZZ	02/22/10	1326	2.29	5.94
12	ZZZZZ	ZZZZZ	02/22/10	1339	2.29	5.93
13	ZZZZZ	ZZZZZ	02/22/10	1351	2.29	5.93
14	ZZZZZ	ZZZZZ	02/22/10	1404	2.29	5.94
15	ZZZZZ	ZZZZZ	02/22/10	1417	2.29	5.93
16	ZZZZZ	ZZZZZ	02/22/10	1430	2.29	5.93
17	AR166002	WAR100203-60	02/22/10	1442	2.29	5.94
18	PIBLK03	WAR100219-99	02/22/10	1453	2.29	5.94
19	ZZZZZ	ZZZZZ	02/22/10	1503	2.29	5.94
20	ZZZZZ	ZZZZZ	02/22/10	1516	2.29	5.93
21	ZZZZZ	ZZZZZ	02/22/10	1528	2.29	5.93
22	ZZZZZ	ZZZZZ	02/22/10	1541	2.29	5.94
23	ZZZZZ	ZZZZZ	02/22/10	1554	2.29	5.93
24	ZZZZZ	ZZZZZ	02/22/10	1606	2.29	5.93
25	ZZZZZ	ZZZZZ	02/22/10	1619	2.29	5.94
26	ZZZZZ	ZZZZZ	02/22/10	1632	2.29	5.93
27	ZZZZZ	ZZZZZ	02/22/10	1644	2.29	5.93
28	ZZZZZ	ZZZZZ	02/22/10	1657	2.29	5.93
29	AR166003	WAR100203-60	02/22/10	1710	2.29	5.93
30	PIBLK04	WAR100219-99	02/22/10	1722	2.29	5.93
31	ZZZZZ	ZZZZZ	02/22/10	1735	2.29	5.93
32	ZZZZZ	ZZZZZ	02/22/10	1748	2.29	5.94

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

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.: 10-1982

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

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: 5.23			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100219-99	03/01/10	0535	1.92	5.22
02	ZZZZZ	ZZZZZ	03/01/10	0546	1.92	5.23
03	AR125401	WAR100219-54	03/01/10	0556		
04	AR124201	WAR100219-42	03/01/10	0607		
05	AR124801	WAR100223-48	03/01/10	0617		
06	AR166001	WAR100222-60	03/01/10	0628	1.92	5.23
07	AR126801	WAR100107-68	03/01/10	0638		
08	AR123201	WAR100104-32	03/01/10	0649		
09	AR122101	WAR100104-21	03/01/10	0659		
10	AR126201	WAR100104-62	03/01/10	0710		
11	DDTANALOGSTD	WAR091219-DD	03/01/10	0720		
12	PIBLK02	WAR100219-99	03/01/10	0731	1.92	5.23
13	ZZZZZ	ZZZZZ	03/01/10	0741	1.92	5.23
14	ZZZZZ	ZZZZZ	03/01/10	0752	1.92	5.23
15	ZZZZZ	ZZZZZ	03/01/10	0802	1.92	5.23
16	ZZZZZ	ZZZZZ	03/01/10	0813	1.92	5.23
17	AR166002	WAR100222-60	03/01/10	0825	1.92	5.22
18	PIBLK03	WAR100219-99	03/01/10	0836	1.92	5.22
19	ZZZZZ	ZZZZZ	03/01/10	0847	1.92	5.23
20	ZZZZZ	ZZZZZ	03/01/10	0857	1.92	5.23
21	ZZZZZ	ZZZZZ	03/01/10	0907	1.94	5.24
22	ZZZZZ	ZZZZZ	03/01/10	0920	1.94	5.23
23	ZZZZZ	ZZZZZ	03/01/10	0933	1.94	5.23
24	ZZZZZ	ZZZZZ	03/01/10	0945	1.94	5.23
25	ZZZZZ	ZZZZZ	03/01/10	0958	1.94	5.23
26	ZZZZZ	ZZZZZ	03/01/10	1010	1.94	5.23
27	ZZZZZ	ZZZZZ	03/01/10	1023	1.92	5.22
28	ZZZZZ	ZZZZZ	03/01/10	1036	1.94	5.23
29	AR166003	WAR100222-60	03/01/10	1048	1.92	5.22
30	PIBLK04	WAR100219-99	03/01/10	1059	1.92	5.23
31	ZZZZZ	ZZZZZ	03/01/10	1109	1.94	5.23
32	ZZZZZ	ZZZZZ	03/01/10	1122	1.94	5.24

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.: 10-1982

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

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: 5.23			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	03/01/10	1135	1.94	5.23
02	ZZZZZ	ZZZZZ	03/01/10	1147	1.94	5.23
03	ZZZZZ	ZZZZZ	03/01/10	1200	1.93	5.22
04	AR166003	WAR100222-60	03/01/10	1212	1.92	5.22
05	PIBLK04	WAR100219-99	03/01/10	1223	1.92	5.22
06	PBLK01	1202054828	03/01/10	1233	1.92	5.22
07	PBLK01LCS	1202054829	03/01/10	1244	1.92	5.23
08	ZZZZZ	ZZZZZ	03/01/10	1255	1.92	5.23
09	ZZZZZ	ZZZZZ	03/01/10	1307	1.92	5.22
10	ZZZZZ	ZZZZZ	03/01/10	1320	1.92	5.22
11	ZZZZZ	ZZZZZ	03/01/10	1332	1.92	5.22
12	ZZZZZ	ZZZZZ	03/01/10	1345	1.92	5.22
13	ZZZZZ	ZZZZZ	03/01/10	1358	1.92	5.22
14	ZZZZZ	ZZZZZ	03/01/10	1410	1.92	5.22
15	ZZZZZ	ZZZZZ	03/01/10	1423	1.92	5.22
16	AR166004	WAR100222-60	03/01/10	1435	1.92	5.22
17	PIBLK05	WAR100219-99	03/01/10	1446	1.92	5.23
18	ZZZZZ	ZZZZZ	03/01/10	1456	1.92	5.22
19	ZZZZZ	ZZZZZ	03/01/10	1509	1.92	5.22
20	ZZZZZ	ZZZZZ	03/01/10	1521	1.92	5.22
21	ZZZZZ	ZZZZZ	03/01/10	1534	1.92	5.22
22	ZZZZZ	ZZZZZ	03/01/10	1547	1.92	5.22
23	AR166005	WAR100222-60	03/01/10	1559	1.92	5.22
24	PIBLK06	WAR100219-99	03/01/10	1612	1.92	5.22
25	RE15-10-8317	247791002	03/01/10	1625	1.92	5.22
26	RE15-10-8317MS	1202054830	03/01/10	1637	1.92	5.22
27	RE15-10-8317MSD	1202054831	03/01/10	1650	1.92	5.22
28	RE15-10-8319	247791003	03/01/10	1702	1.92	5.22
29	RE15-10-8316	247791004	03/01/10	1715	1.92	5.22
30	RE15-10-8326	247791005	03/01/10	1728	1.92	5.22
31	RE15-10-8318	247791006	03/01/10	1740	1.92	5.22
32	AR166006	WAR100222-60	03/01/10	1753	1.92	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.: 10-1982

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	03/01/10	0535	2.27	5.92
02	ZZZZZ	ZZZZZ	03/01/10	0546	2.28	5.92
03	AR125401	WAR100219-54	03/01/10	0556		
04	AR124201	WAR100219-42	03/01/10	0607		
05	AR124801	WAR100223-48	03/01/10	0617		
06	AR166001	WAR100222-60	03/01/10	0628	2.28	5.92
07	AR126801	WAR100107-68	03/01/10	0638		
08	AR123201	WAR100104-32	03/01/10	0649		
09	AR122101	WAR100104-21	03/01/10	0659		
10	AR126201	WAR100104-62	03/01/10	0710		
11	DDTANALOGSTD	WAR091219-DD	03/01/10	0720		
12	PIBLK02	WAR100219-99	03/01/10	0731	2.28	5.92
13	ZZZZZ	ZZZZZ	03/01/10	0741	2.28	5.92
14	ZZZZZ	ZZZZZ	03/01/10	0752	2.28	5.92
15	ZZZZZ	ZZZZZ	03/01/10	0802	2.28	5.92
16	ZZZZZ	ZZZZZ	03/01/10	0813	2.28	5.92
17	AR166002	WAR100222-60	03/01/10	0825	2.28	5.92
18	PIBLK03	WAR100219-99	03/01/10	0836	2.28	5.92
19	ZZZZZ	ZZZZZ	03/01/10	0847	2.28	5.92
20	ZZZZZ	ZZZZZ	03/01/10	0857	2.28	5.92
21	ZZZZZ	ZZZZZ	03/01/10	0907	2.30	5.93
22	ZZZZZ	ZZZZZ	03/01/10	0920	2.30	5.92
23	ZZZZZ	ZZZZZ	03/01/10	0933	2.30	5.92
24	ZZZZZ	ZZZZZ	03/01/10	0945	2.30	5.92
25	ZZZZZ	ZZZZZ	03/01/10	0958	2.30	5.92
26	ZZZZZ	ZZZZZ	03/01/10	1010	2.29	5.92
27	ZZZZZ	ZZZZZ	03/01/10	1023	2.28	5.92
28	ZZZZZ	ZZZZZ	03/01/10	1036	2.30	5.92
29	AR166003	WAR100222-60	03/01/10	1048	2.28	5.92
30	PIBLK04	WAR100219-99	03/01/10	1059	2.28	5.92
31	ZZZZZ	ZZZZZ	03/01/10	1109	2.30	5.92
32	ZZZZZ	ZZZZZ	03/01/10	1122	2.30	5.93

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.: 10-1982
 GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/22/10 02/22/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.28			DCB: 5.92			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	03/01/10	1135	2.30	5.92
02	ZZZZZ	ZZZZZ	03/01/10	1147	2.30	5.92
03	ZZZZZ	ZZZZZ	03/01/10	1200	2.29	5.92
04	AR166003	WAR100222-60	03/01/10	1212	2.28	5.92
05	PIBLK04	WAR100219-99	03/01/10	1223	2.28	5.92
06	PBLK01	1202054828	03/01/10	1233	2.28	5.92
07	PBLK01LCS	1202054829	03/01/10	1244	2.28	5.92
08	ZZZZZ	ZZZZZ	03/01/10	1255	2.28	5.92
09	ZZZZZ	ZZZZZ	03/01/10	1307	2.28	5.92
10	ZZZZZ	ZZZZZ	03/01/10	1320	2.28	5.92
11	ZZZZZ	ZZZZZ	03/01/10	1332	2.28	5.92
12	ZZZZZ	ZZZZZ	03/01/10	1345	2.28	5.92
13	ZZZZZ	ZZZZZ	03/01/10	1358	2.28	5.92
14	ZZZZZ	ZZZZZ	03/01/10	1410	2.28	5.92
15	ZZZZZ	ZZZZZ	03/01/10	1423	2.28	5.92
16	AR166004	WAR100222-60	03/01/10	1435	2.28	5.92
17	PIBLK05	WAR100219-99	03/01/10	1446	2.28	5.92
18	ZZZZZ	ZZZZZ	03/01/10	1456	2.28	5.92
19	ZZZZZ	ZZZZZ	03/01/10	1509	2.28	5.92
20	ZZZZZ	ZZZZZ	03/01/10	1521	2.28	5.92
21	ZZZZZ	ZZZZZ	03/01/10	1534	2.28	5.92
22	ZZZZZ	ZZZZZ	03/01/10	1547	2.28	5.92
23	AR166005	WAR100222-60	03/01/10	1559	2.28	5.92
24	PIBLK06	WAR100219-99	03/01/10	1612	2.28	5.92
25	RE15-10-8317	247791002	03/01/10	1625	2.28	5.92
26	RE15-10-8317MS	1202054830	03/01/10	1637	2.28	5.92
27	RE15-10-8317MSD	1202054831	03/01/10	1650	2.28	5.92
28	RE15-10-8319	247791003	03/01/10	1703	2.28	5.92
29	RE15-10-8316	247791004	03/01/10	1715	2.28	5.92
30	RE15-10-8326	247791005	03/01/10	1728	2.28	5.92
31	RE15-10-8318	247791006	03/01/10	1740	2.28	5.92
32	AR166006	WAR100222-60	03/01/10	1753	2.28	5.92

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: 10-1982

Client ID: LCS for batch 958178

Lab Sample ID: 1202054829

Data File: 039f3901.d

Data File: 039b3901.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 01-MAR-10 12:44

Analyzed: 01-MAR-10 12:44

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.49
Column 1	1	2.37	2.34 - 2.4	25.8		ug/kg	
	2	2.66	2.63 - 2.69	27.9		ug/kg	
	3	2.74	2.71 - 2.77	27.5		ug/kg	
	4	2.78	2.75 - 2.81	28.2		ug/kg	
	5	2.99	2.96 - 3.02	28.8		ug/kg	
					27.6		
Column 2	1	3.17	3.14 - 3.2	27.5		ug/kg	
	2	3.26	3.23 - 3.29	26.8		ug/kg	
	3	3.32	3.29 - 3.35	26.8		ug/kg	
	4	3.55	3.52 - 3.58	27.2		ug/kg	
	5	3.62	3.59 - 3.65	27.8		ug/kg	
					27.2		
Aroclor-1260							9.95
Column 1	1	3.71	3.68 - 3.74	32.9		ug/kg	
	2	3.88	3.85 - 3.91	35.8		ug/kg	
	3	4.04	4.01 - 4.07	36.6		ug/kg	
	4	4.11	4.08 - 4.14	35.7		ug/kg	
	5	4.25	4.22 - 4.28	37.1		ug/kg	
					35.7		
Column 2	1	4.31	4.28 - 4.34	30.8		ug/kg	
	2	4.44	4.41 - 4.47	32.3		ug/kg	
	3	4.7	4.67 - 4.73	32.1		ug/kg	
	4	4.88	4.85 - 4.91	32.4		ug/kg	
	5	5.02	4.99 - 5.05	33.8		ug/kg	
					32.3		

Identification Summary

Page 1 of 1

SDG Number: 10-1982
 Lab Sample ID: 1202054830

Client ID: RE15-10-8317MS

Data File: 058f5801.d
 Inst: ECD1A.I_1
 Column: CLP1
 Analyzed: 01-MAR-10 16:37

Data File: 058b5801.d
 Inst: ECD1A.I_2
 Column: CLP2
 Analyzed: 01-MAR-10 16:37

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.05
Column 1	1	2.37	2.34 – 2.4	28.5	30.2	ug/kg	
	2	2.66	2.63 – 2.69	31		ug/kg	
	3	2.74	2.71 – 2.77	29.7		ug/kg	
	4	2.78	2.75 – 2.81	30.4		ug/kg	
	5	2.99	2.96 – 3.02	31.2		ug/kg	
Column 2	1	3.17	3.14 – 3.2	30.3	29.8	ug/kg	
	2	3.25	3.23 – 3.29	28.8		ug/kg	
	3	3.32	3.29 – 3.35	29		ug/kg	
	4	3.55	3.52 – 3.58	30.5		ug/kg	
	5	3.62	3.59 – 3.65	30.7		ug/kg	
Aroclor-1260							9.78
Column 1	1	3.71	3.68 – 3.74	36.2	39.3	ug/kg	
	2	3.87	3.85 – 3.91	39.6		ug/kg	
	3	4.04	4.01 – 4.07	40.4		ug/kg	
	4	4.1	4.08 – 4.14	39.6		ug/kg	
	5	4.25	4.22 – 4.28	40.6		ug/kg	
Column 2	1	4.31	4.28 – 4.34	33.8	35.6	ug/kg	
	2	4.44	4.41 – 4.47	35.6		ug/kg	
	3	4.7	4.67 – 4.73	35.5		ug/kg	
	4	4.87	4.85 – 4.91	35.8		ug/kg	
	5	5.02	4.99 – 5.05	37.3		ug/kg	

Identification Summary

Page 1 of 1

SDG Number: 10-1982
 Lab Sample ID: 1202054831

Client ID: RE15-10-8317MSD

Data File: 059f5901.d
 Inst: ECD1A.I_1
 Column: CLP1
 Analyzed: 01-MAR-10 16:50

Data File: 059b5901.d
 Inst: ECD1A.I_2
 Column: CLP2
 Analyzed: 01-MAR-10 16:50

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							1.09
<i>Column 1</i>	1	2.37	2.34 – 2.4	26		ug/kg	
	2	2.66	2.63 – 2.69	28.2		ug/kg	
	3	2.74	2.71 – 2.77	27.9		ug/kg	
	4	2.78	2.75 – 2.81	28.5		ug/kg	
	5	2.99	2.96 – 3.02	29.3		ug/kg	
					28		
<i>Column 2</i>	1	3.17	3.14 – 3.2	29.4		ug/kg	
	2	3.26	3.23 – 3.29	27.2		ug/kg	
	3	3.32	3.29 – 3.35	27.4		ug/kg	
	4	3.55	3.52 – 3.58	28.7		ug/kg	
	5	3.62	3.59 – 3.65	28.8		ug/kg	
					28.3		
Aroclor-1260							9.56
<i>Column 1</i>	1	3.71	3.68 – 3.74	34.1		ug/kg	
	2	3.87	3.85 – 3.91	37.3		ug/kg	
	3	4.04	4.01 – 4.07	38		ug/kg	
	4	4.1	4.08 – 4.14	37.5		ug/kg	
	5	4.25	4.22 – 4.28	38.2		ug/kg	
					37		
<i>Column 2</i>	1	4.31	4.28 – 4.34	32		ug/kg	
	2	4.44	4.41 – 4.47	33.7		ug/kg	
	3	4.7	4.67 – 4.73	33.6		ug/kg	
	4	4.87	4.85 – 4.91	33.7		ug/kg	
	5	5.02	4.99 – 5.05	35.3		ug/kg	
					33.7		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1982

Matrix: SOIL

Lab Sample ID: 1202054828

Client Sample: QC for batch 958178

Client: LANL010

Project: QC

Client ID: MB for batch 958178

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 958180

Inst: ECD1A.I

Dilution: 1

Run Date: 03/01/2010 12:33

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/26/2010 20:38

Aliquot: 30 g

Final Volume: 1 mL

Data File: 038f3801-1.d

Column: 1 CLP1

Level: LOW

038b3801-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/038f3801-2.d

Lab Smp Id: 1202054828

Client Smp ID: PBLK01

Inj Date : 01-MAR-2010 12:33

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202054828|1|

Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MB|

Comment :

Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m

Meth Date : 01-Mar-2010 12:26 yip00818

Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036f3601.d

Als bottle: 38

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

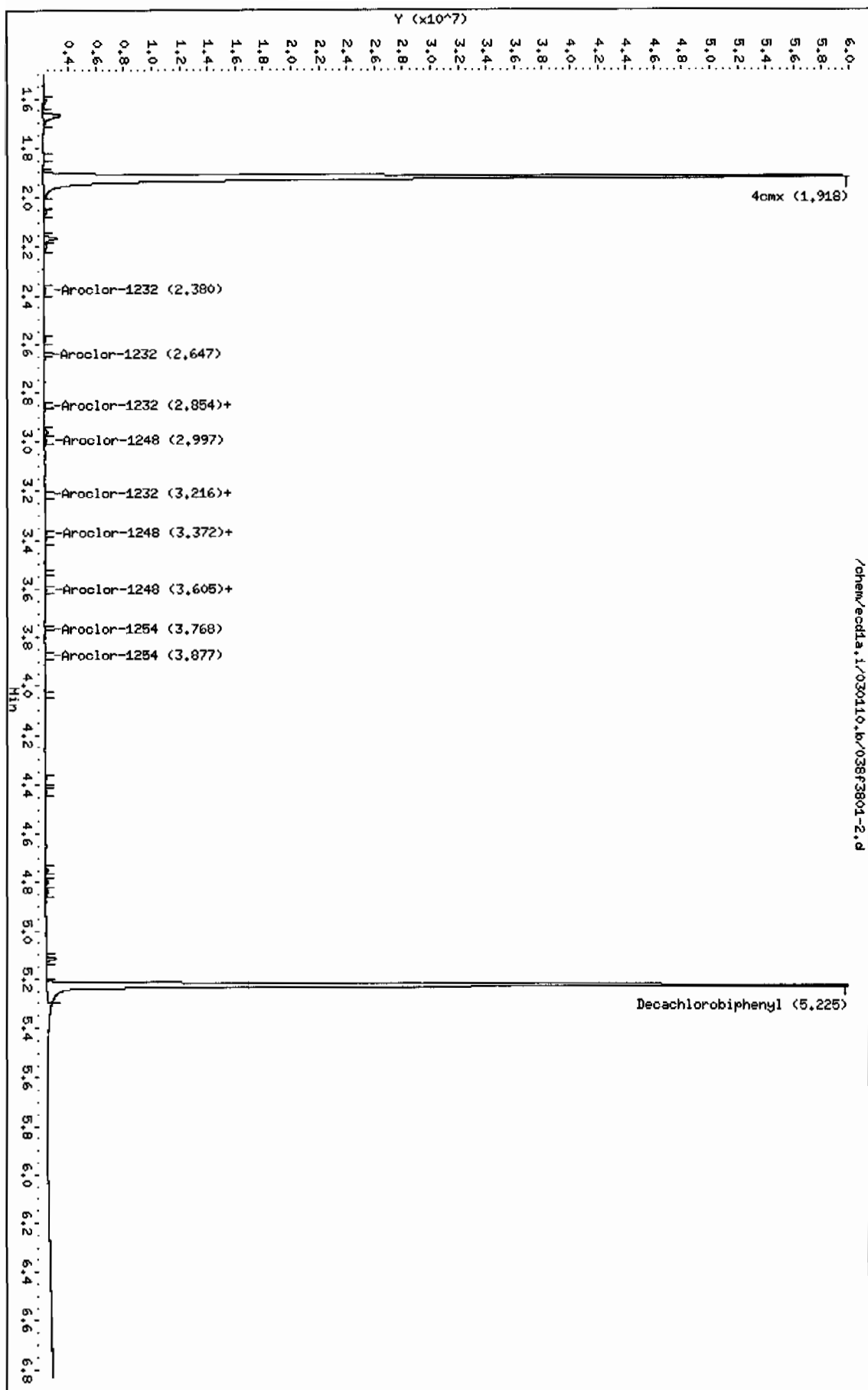
Local Compound Variable

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.918	1.919	-0.001	66268316	153.884	5.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.225	5.227	-0.002	56771807	184.750	6.2	80.00- 120.00	100.00	

Data File: /chem/ecdl1,1/030110,b/038f3801-2.d
Date: 01-MAR-2010 12:33
Client ID: PBLK01
Sample Info: 1120205462811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1,1
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/038b3801-2.d
 Report Date: 01-Mar-2010 13:41

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/038b3801-2.d
 Lab Smp Id: 1202054828 Client Smp ID: PBLK01
 Inj Date : 01-MAR-2010 12:33
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202054828|1|
 Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 01-Mar-2010 12:26 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 38 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1982.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

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

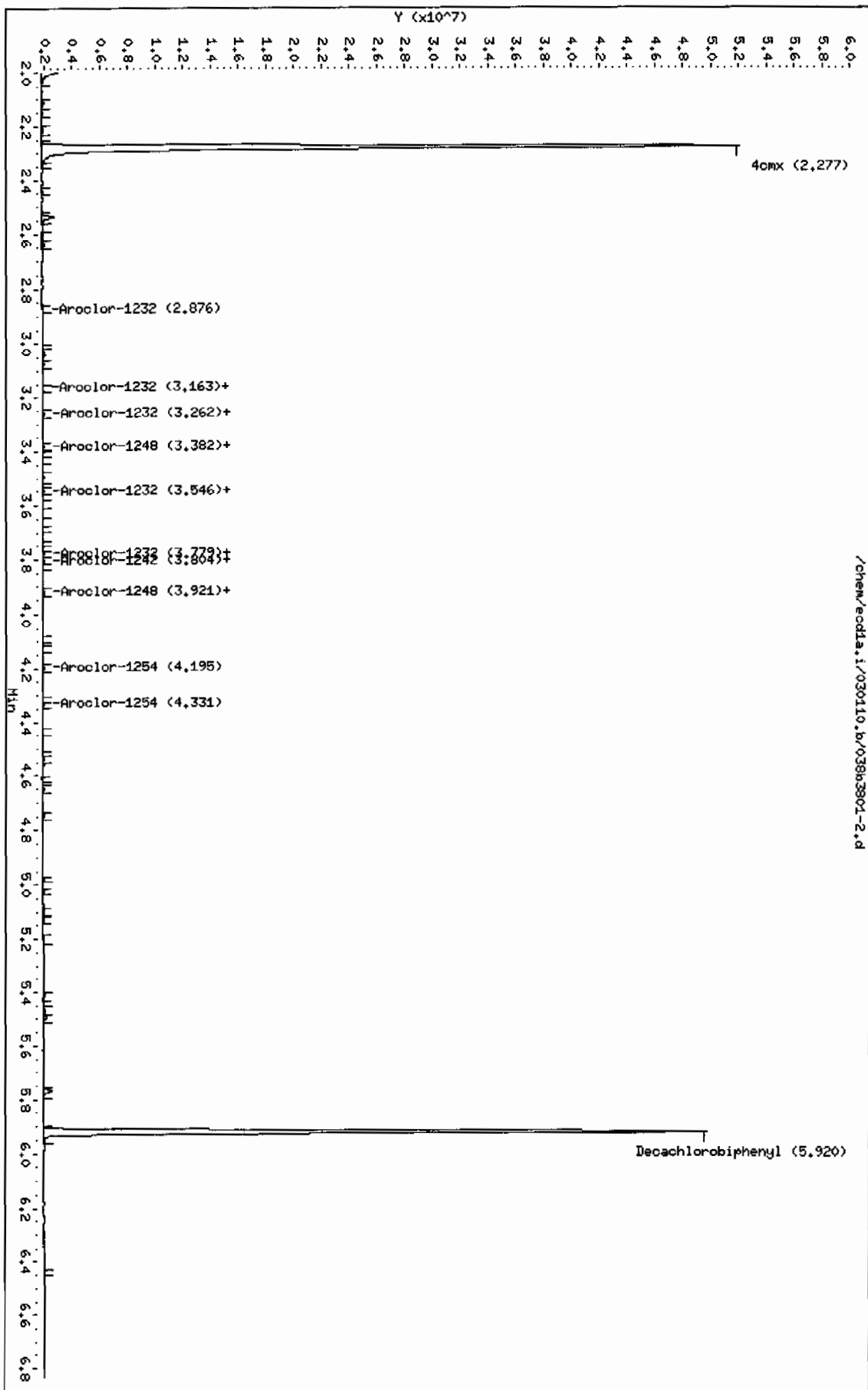
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
<div> <div>\$ 11 4cmx</div> <div>CAS #: 877-09-8</div> </div>						
2.277	2.278	-0.001	45433195	152.770	5.1 80.00- 120.00	100.00
<div> <div>\$ 12 Decachlorobiphenyl</div> <div>CAS #: 2051-24-3</div> </div>						
5.920	5.923	-0.003	36179776	171.064	5.7 80.00- 120.00	100.00

Data File: /chem/ecdl1a.i/030110.b/03803801-2.d
 Date: 01-MAR-2010 12:33
 Client ID: PBLK01
 Sample Info: 11202054828111
 Volume Injected (uL): 1.0
 Column Phase: CLP2

Instrument: ecdl1a.i
 Operator: YSL
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1982	Matrix: SOIL	
Lab Sample ID: 1202054829		
Client Sample: QC for batch 958178	Client: LANL010	Project: QC
Client ID: LCS for batch 958178	Method: SW846 8082	SOP Ref: GL-OA-E-040
Batch ID: 958180	Inst: ECD1A.1	Dilution: 1
Run Date: 03/01/2010 12:44	Analyst: YS1	Inj. Vol: 1 uL
Prep Date: 02/26/2010 20:38	Aliquot: 30 g	Final Volume: 1 mL
Data File: 039f3901-1.d	Column: 1 CLP1	Level: LOW
	2 CLP2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		27.6	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		35.6	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/039f3901-2.d
 Lab Smp Id: 1202054829 Client Smp ID: PBLK01LCS
 Inj Date : 01-MAR-2010 12:44
 Operator : YSl Inst ID: ecd1a.i
 Smp Info : |1202054829|1|
 Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecdl1.i/030110.b/ECD1-F-8082-022210.m
 Meth Date : 01-Mar-2010 12:26 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
 Als bottle: 39 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1982.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

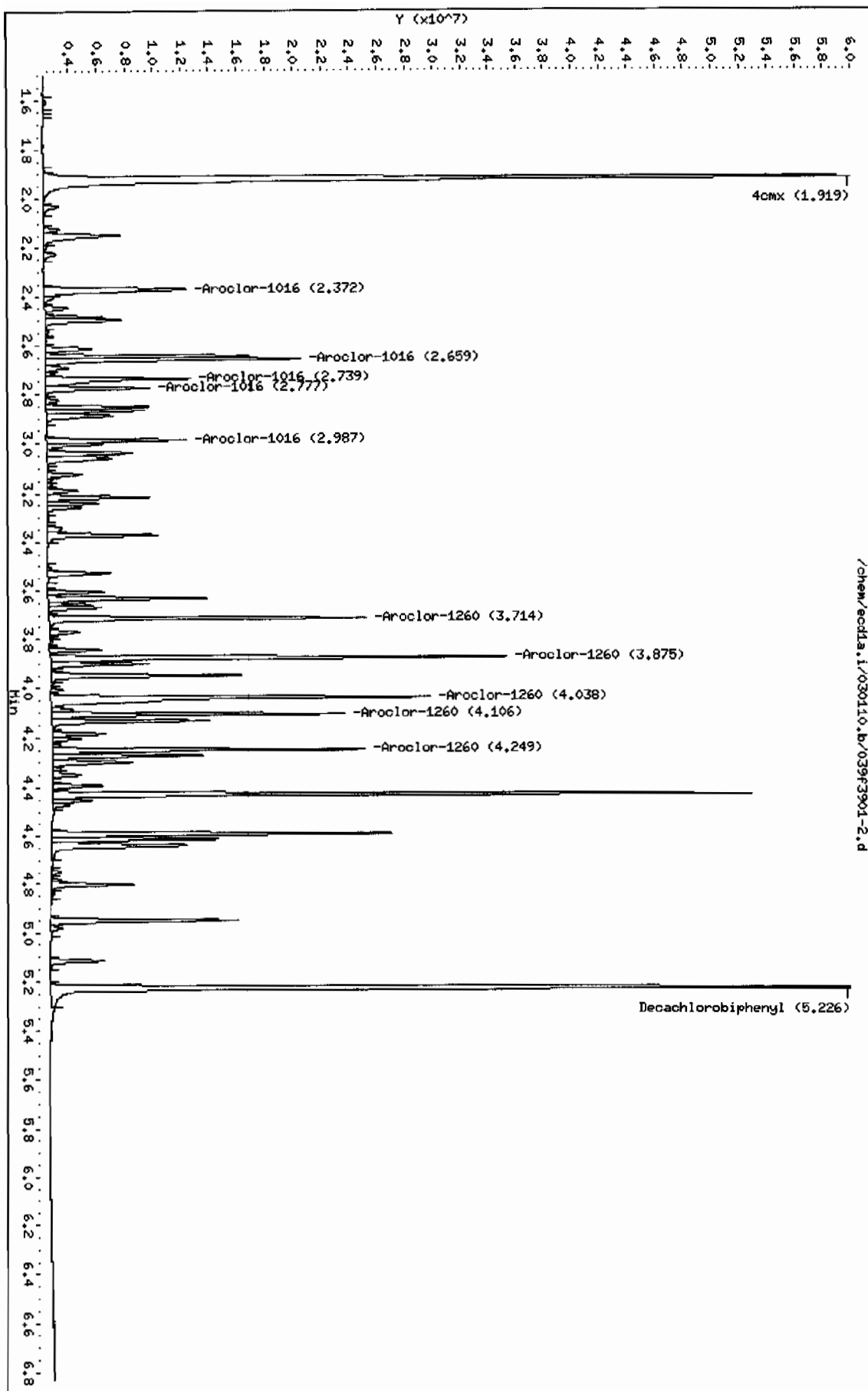
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8				
1.919	1.919	0.000	65016140	150.977	5.0	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.226	5.227	-0.001	56222628	182.963	6.1	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2				
2.372	2.373	-0.001	11897316	773.339	25.8	80.00- 120.00	100.00
2.659	2.659	0.000	15284104	838.082	27.9	108.71- 148.71	128.47
2.739	2.740	-0.001	9940700	823.896	27.5	62.92- 102.92	83.55
2.777	2.778	-0.001	6012518	847.298	28.2	29.86- 69.86	50.54

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.987	2.988	-0.001	7703100	864.333	28.8	43.04-	83.04	64.75
Average of Peak Concentrations =					27.6			

7 Aroclor-1260					CAS #: 11096-82-5			
3.714	3.714	0.000	16855076	987.269	32.9	80.00-	120.00	100.00
3.875	3.877	-0.002	25429641	1075.55	35.8	128.48-	168.48	150.87
4.038	4.039	-0.001	27448733	1099.21	36.6	139.29-	179.29	162.85
4.106	4.107	-0.001	15447953	1072.35	35.7	69.71-	109.71	91.65
4.249	4.250	-0.001	16074151	1113.90	37.1	73.10-	113.10	95.37
Average of Peak Concentrations =					35.6			

Data File: /chem/ecdl1a.i/030110.b/039F3901-2.d
Date: 01-MAR-2010 12:44
Client ID: PBLK01LCS
Sample Info: 1120205482911
Volume Injected (ul): 1.0
Column Phase: CLP1

Instrument: ecdl1a.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/030110.b/039b3901-2.d
Report Date: 03-Mar-2010 07:24

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/039b3901-2.d
Lab Smp Id: 1202054829 Client Smp ID: PBLK01LCS
Inj Date : 01-MAR-2010 12:44
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202054829|1|
Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdl1a.i/030110.b/ECD1-B-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
Als bottle: 39 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.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			
RT	=====	=====	=====	=====	=====	=====		=====	
\$ 11 4cmx CAS #: 877-09-8									
2.278	2.278	0.000	44621841	150.041	5.0	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3									
5.921	5.923	-0.002	35168695	166.284	5.5	80.00-	120.00	100.00	

1 Aroclor-1016 CAS #: 12674-11-2									
3.173	3.174	-0.001	10555697	825.323	27.5	80.00-	120.00	100.00 (M)	
3.256	3.257	-0.001	7173753	804.419	26.8	46.00-	86.00	67.96	
3.319	3.320	-0.001	4345059	803.746	26.8	21.30-	61.30	41.16	
3.547	3.547	0.000	5649612	816.933	27.2	33.45-	73.45	53.52	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====	=====		=====	=====	=====		
1 Aroclor-1016 (continued)									
3.622	3.623	-0.001	5366294	835.193	27.8	29.89-	69.89	50.84	
Average of Peak Concentrations =					27.2				

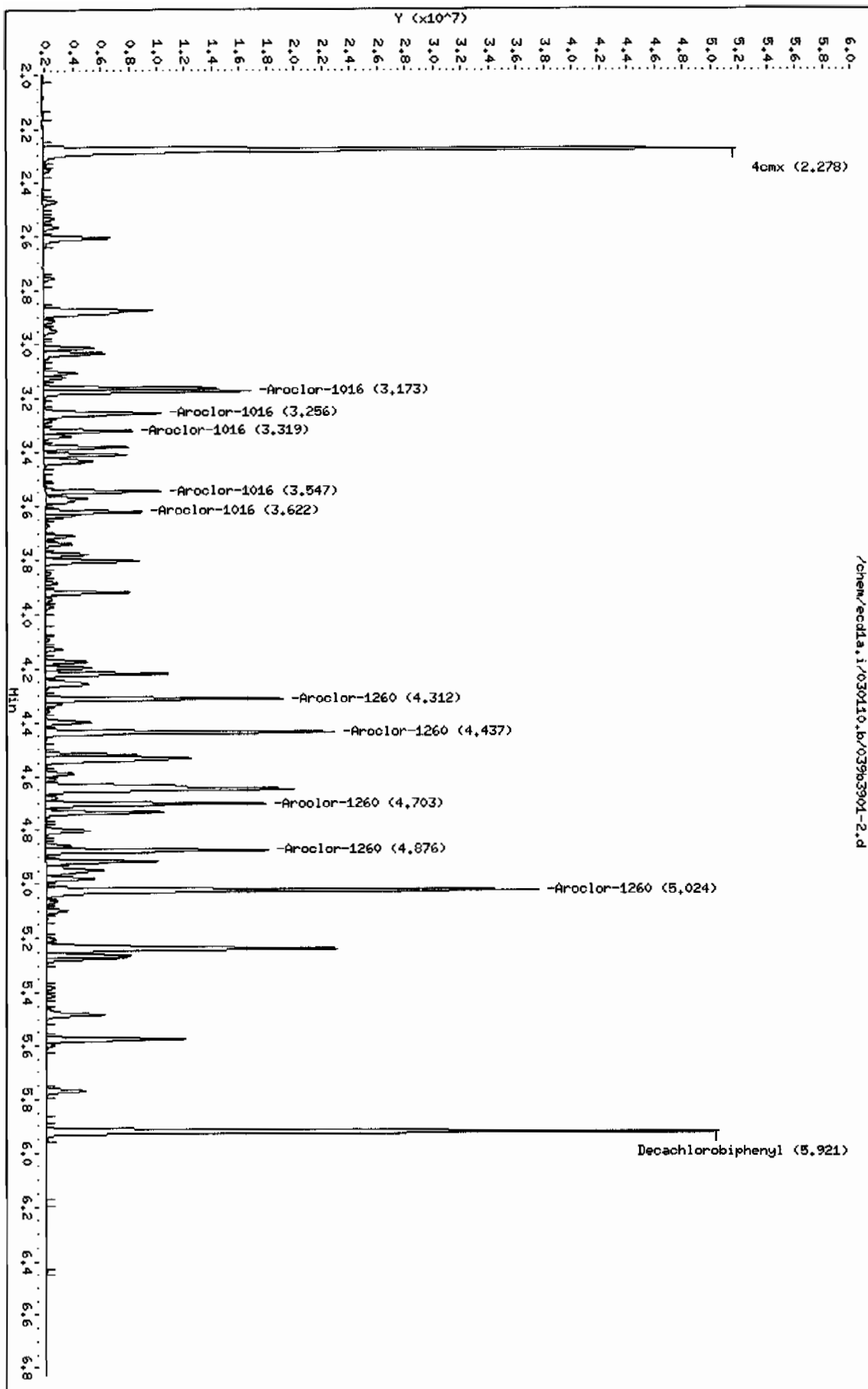
7 Aroclor-1260					CAS #: 11096-82-5				
4.312	4.314	-0.002	12199778	923.831	30.8	80.00-	120.00	100.00	
4.437	4.439	-0.002	15083443	968.949	32.3	102.21-	142.21	123.64	
4.703	4.704	-0.001	11397671	962.357	32.1	72.03-	112.03	93.43	
4.876	4.878	-0.002	11875729	973.325	32.4	75.75-	115.75	97.34	
5.024	5.024	0.000	26871505	1012.98	33.8	194.38-	234.38	220.26	
Average of Peak Concentrations =					32.3				

QC Flag Legend

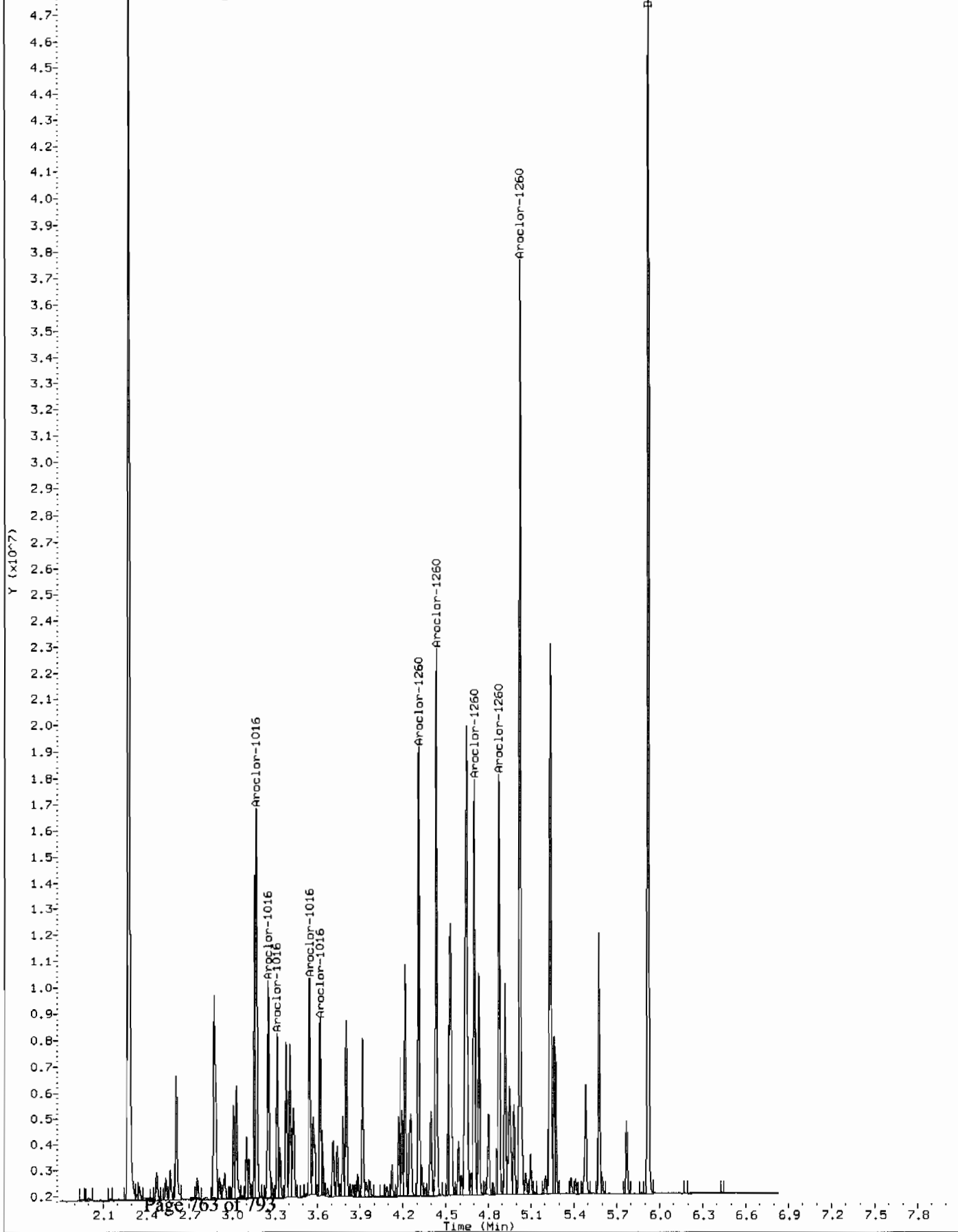
M - Compound response manually integrated.

Data File: /chem/ecda.i/030110.b/039b3901-2.d
Date: 01-MAR-2010 12:44
Client ID: PLK01LCS
Sample Info: 11202054829111
Volume Injected (uL): 1.0
Column phase: CLP2

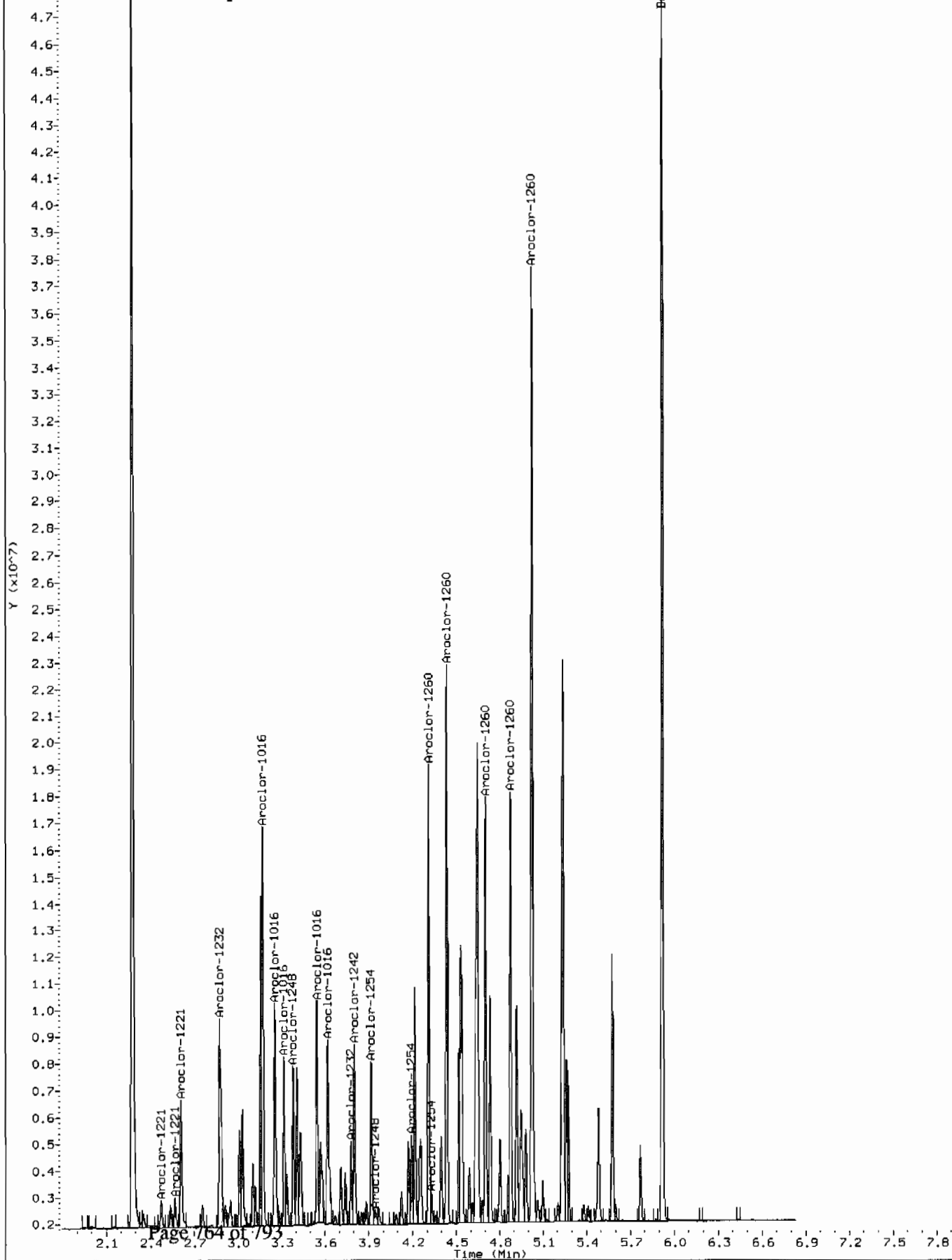
Instrument: ecda.i
Operator: YSA
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/039b3901-2.1
Operator: YS1
Injection Date: 01-MAR-2010 12:44
Instrument: ecdl1a.i
Client Sample ID: PBLK01LCS



Comment: Before manual integration
Data File: /chem/ecdl1.i/030110.b/orig-039b3901-2.d
Operator: YS1
Injection Date: 01-MAR-2010 12:44
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1982	Date Collected:	02/17/2010 12:00	Matrix:	R
Lab Sample ID:	1202054830	Date Received:	02/23/2010 08:50	%Moisture:	6.3
Client Sample:	QC for batch 958178	Client:	LANL010	Project:	QC
Client ID:	RE15-10-8317MS	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Batch ID:	958180	Inst:	ECD1A.I	Dilution:	1
Run Date:	03/01/2010 16:37	Analyst:	YS1	Inj. Vol:	1 uL
Prep Date:	02/26/2010 20:38	Aliquot:	30.06 g	Final Volume:	1 mL
Data File:	058f5801.d	Column:	1 CLP1	Level:	LOW
	058b5801.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		30.2	ug/kg	1.18	3.55	1
11104-28-2	Aroclor-1221	U	3.55	ug/kg	1.18	3.55	1
11141-16-5	Aroclor-1232	U	3.55	ug/kg	1.18	3.55	1
53469-21-9	Aroclor-1242	U	3.55	ug/kg	1.18	3.55	1
12672-29-6	Aroclor-1248	U	3.55	ug/kg	1.18	3.55	1
11097-69-1	Aroclor-1254	U	3.55	ug/kg	1.18	3.55	1
11096-82-5	Aroclor-1260		39.3	ug/kg	1.18	3.55	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/058f5801.d
Lab Smp Id: 1202054830 Client Smp ID: RE15-10-8317MS
Inj Date : 01-MAR-2010 16:37
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202054830|1|
Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecdla.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 58 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.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	30.06000	Weight of sample extracted (g)
M	6.34340	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

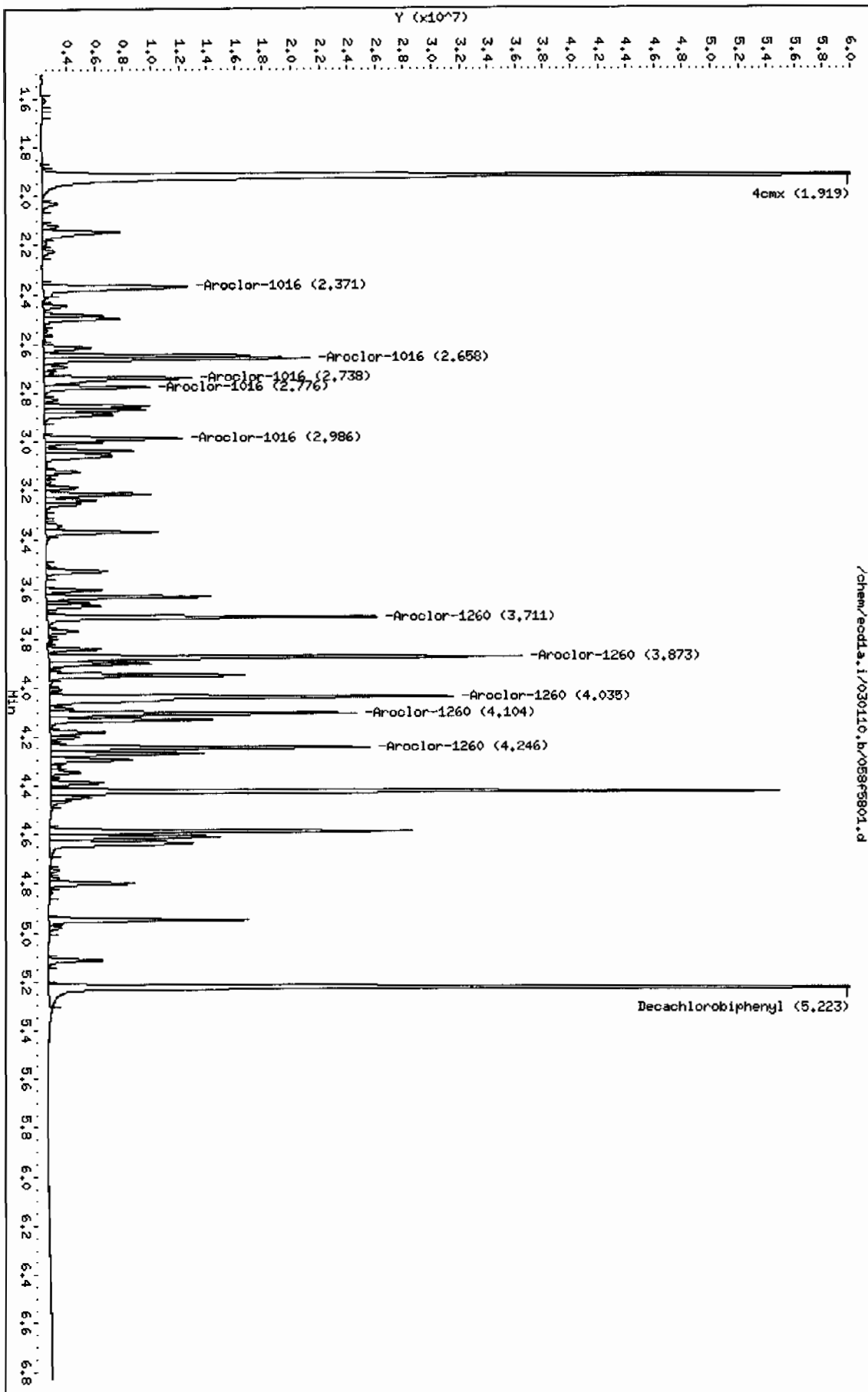
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ug/L)				(ug/Kg)		
\$ 11 4cmx				CAS #: 877-09-8		
1.919	1.919	0.000	68162315	158.283	5.6 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.223	5.227	-0.004	59422361	193.376	6.9 80.00- 120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2		
2.371	2.373	-0.002	12335294	801.808	28.5 80.00- 120.00	100.00
2.658	2.659	-0.001	15928459	873.414	31.0 110.29- 150.29	129.13
2.738	2.740	-0.002	10102950	837.343	29.7 62.85- 102.85	81.90
2.776	2.778	-0.002	6065760	854.801	30.4 29.99- 69.99	49.17

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)								
2.986	2.988	-0.002	7818690	877.303	31.2	43.89-	83.89	63.38
Average of Peak Concentrations =					30.2			

7 Aroclor-1260					CAS #: 11096-82-5			
3.711	3.714	-0.003	17375481	1017.75	36.2	80.00-	120.00	100.00
3.873	3.877	-0.004	26366853	1115.19	39.6	129.88-	169.88	151.75
4.035	4.039	-0.004	28403152	1137.43	40.4	140.76-	180.76	163.47
4.104	4.107	-0.003	16052112	1114.29	39.6	70.44-	110.44	92.38
4.246	4.250	-0.004	16473734	1141.59	40.5	74.18-	114.18	94.81
Average of Peak Concentrations =					39.3			

Data File: /chem/eod1a.i/030110.b/058f5801.d
Date: 01-MAR-2010 16:37
Client ID: RELS-10-8317HS
Sample Info: 1120205483011
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod1a.i
Operator: YSA
Column diameter: 0.25



Data File: /chem/ecdl1.i/030110.b/058b5801.d
 Report Date: 02-Mar-2010 07:22

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/030110.b/058b5801.d
 Lab Smp Id: 1202054830 Client Smp ID: RE15-10-8317MS
 Inj Date : 01-MAR-2010 16:37
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202054830|1|
 Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MS|1|
 Comment :
 Method : /chem/ecdl1.i/030110.b/ECD1-B-8082-022210.m
 Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
 Cal Date : 22-FEB-2010 12:08 Cal File: 036b3601.d
 Als bottle: 58 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1982.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	30.06000	Weight of sample extracted (g)
M	6.34340	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8							
\$ 11 4cmx	2.277	2.278 -0.001	46719931	157.096	5.6	80.00- 120.00	100.00
CAS #: 2051-24-3							
\$ 12 Decachlorobiphenyl	5.918	5.923 -0.005	37118265	175.501	6.2	80.00- 120.00	100.00
CAS #: 12674-11-2							
1 Aroclor-1016	3.172	3.174 -0.002	10892565	851.662	30.2	80.00- 120.00	100.00 (M)
	3.255	3.257 -0.002	7239034	811.740	28.8	45.07- 85.07	66.46
	3.318	3.320 -0.002	4412922	816.299	29.0	20.73- 60.73	40.51
	3.546	3.547 -0.001	5931297	857.665	30.5	32.70- 72.70	54.45

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.620	3.623	-0.003	5545230	863.042	30.6	28.82-	68.82	50.91	
Average of Peak Concentrations =					29.8				

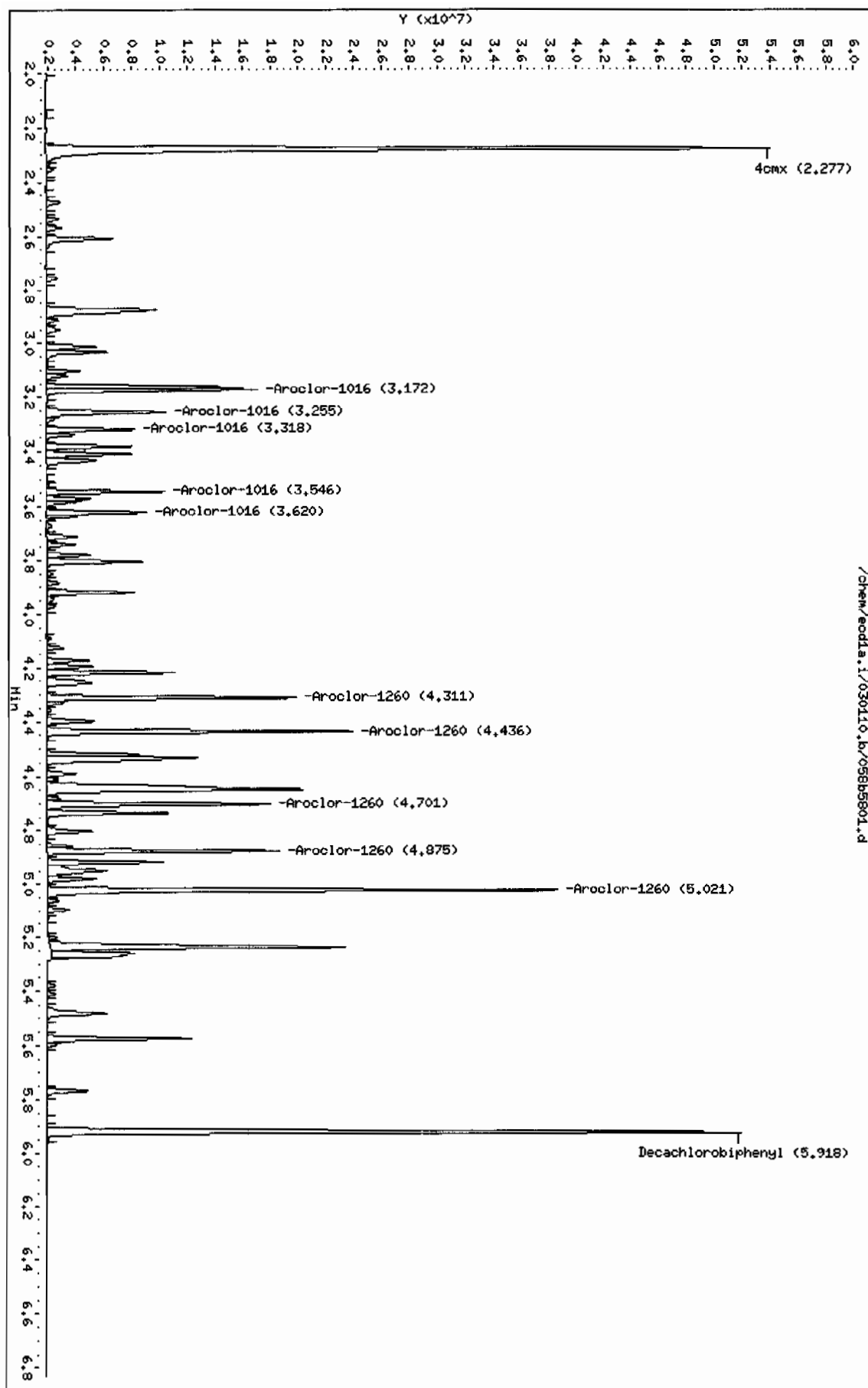
7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.314	-0.003	12569772	951.849	33.8	80.00-	120.00	100.00	
4.436	4.439	-0.003	15609190	1002.72	35.6	102.36-	142.36	124.18	
4.701	4.704	-0.003	11844271	1000.07	35.5	72.08-	112.08	94.23	
4.875	4.878	-0.003	12280992	1006.54	35.8	75.80-	115.80	97.70	
5.021	5.024	-0.003	27850663	1049.89	37.3	194.47-	234.47	221.57	
Average of Peak Concentrations =					35.6				

QC Flag Legend

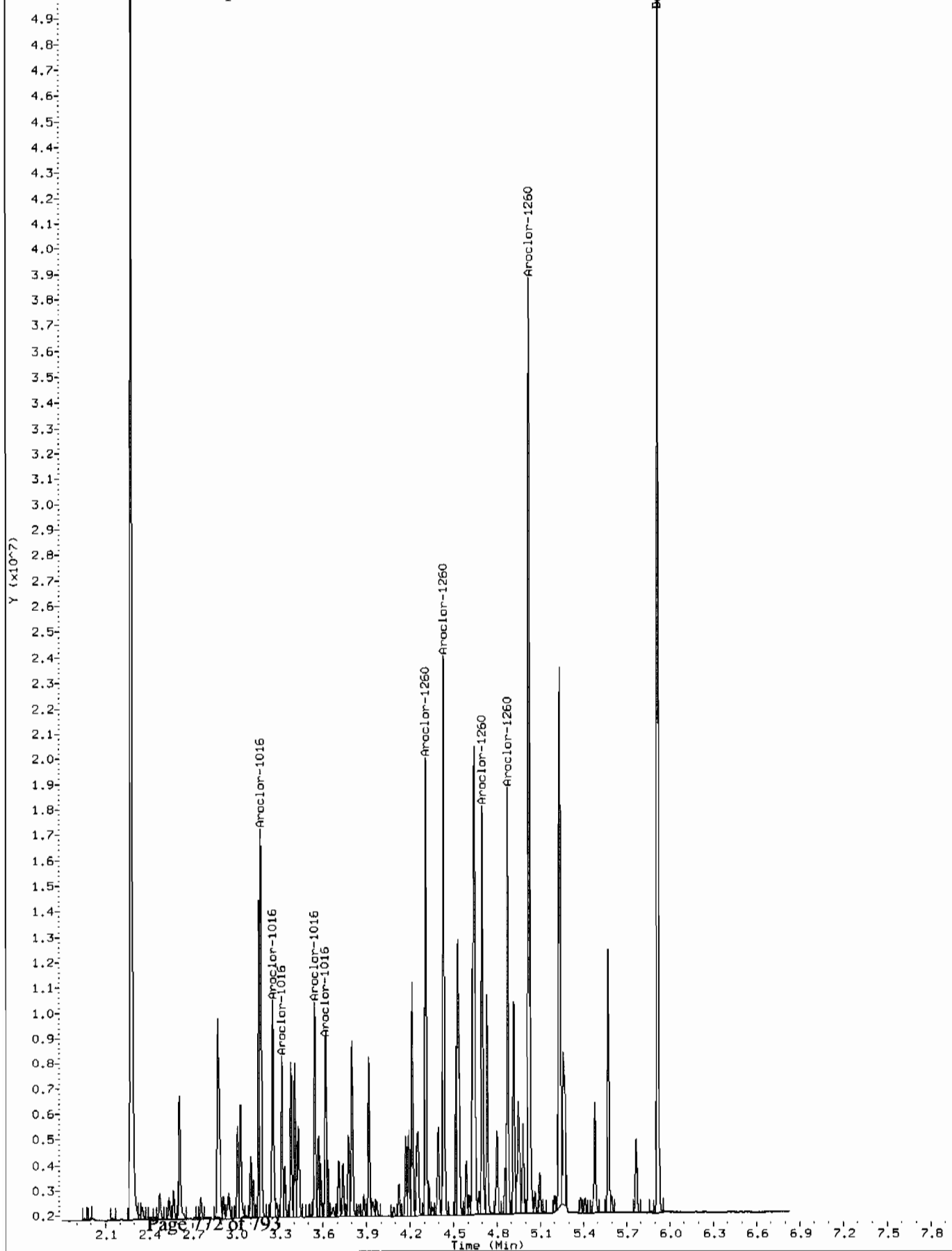
M - Compound response manually integrated.

Data File: /chem/eod1a.i/030110.b/058b5801.d
Date: 01-MAR-2010 16:37
Client ID: RE15-10-8317MS
Sample Info: 1120205483011
Volume Injected (uL): 1.0
Column Phase: CLP2

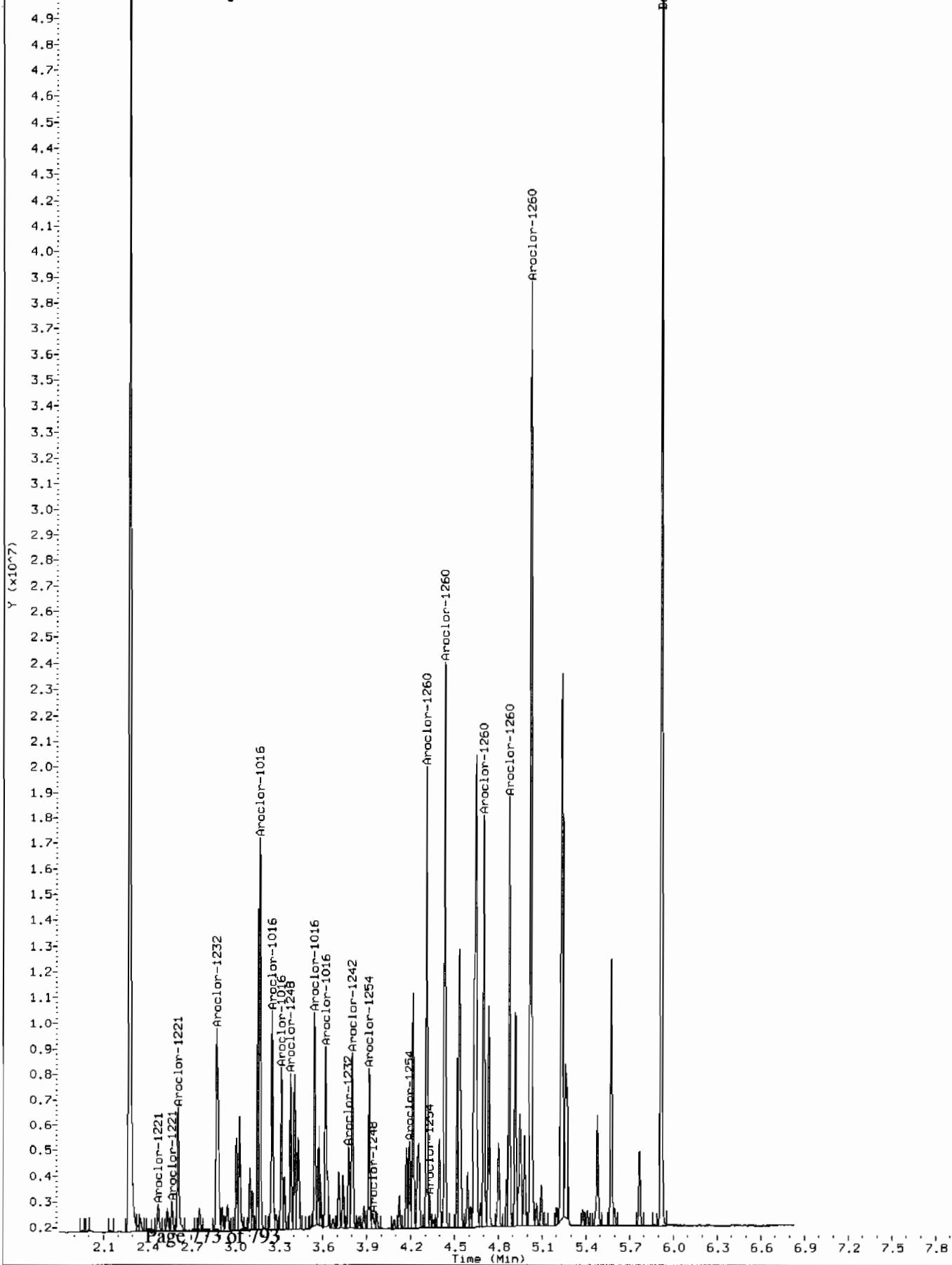
Instrument: eod1a.i
Operator: YSL
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/030110.b/058b5801.d
Operator: YS1
Injection Date: 01-MAR-2010 16:37
Instrument: ecd1a.i
Client Sample ID: RE15-10-8317MS



Comment: Before manual integration
Data File: /chem/ecdl1.i/030110.b/orig-058b5801.d
Operator: YS1
Injection Date: 01-MAR-2010 16:37
Instrument: ecdl1.i
Client Sample ID: RE15-10-8317MS



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1982
 Lab Sample ID: 1202054831
 Client Sample: QC for batch 958178
 Client ID: RE15-10-8317MSD
 Batch ID: 958180
 Run Date: 03/01/2010 16:50
 Prep Date: 02/26/2010 20:38
 Data File: 059f5901.d
 059b5901.d

Date Collected: 02/17/2010 12:00
 Date Received: 02/23/2010 08:50
 Client: LANL010
 Method: SW846 8082
 Inst: ECD1A.1
 Analyst: YS1
 Aliquot: 30.01 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 % Moisture: 6.3
 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		28.0	ug/kg	1.18	3.56	1
11104-28-2	Aroclor-1221	U	3.56	ug/kg	1.18	3.56	1
11141-16-5	Aroclor-1232	U	3.56	ug/kg	1.18	3.56	1
53469-21-9	Aroclor-1242	U	3.56	ug/kg	1.18	3.56	1
12672-29-6	Aroclor-1248	U	3.56	ug/kg	1.18	3.56	1
11097-69-1	Aroclor-1254	U	3.56	ug/kg	1.18	3.56	1
11096-82-5	Aroclor-1260		37.0	ug/kg	1.18	3.56	1

Data File: /chem/ecdl1a.i/030110.b/059f5901.d
Report Date: 02-Mar-2010 07:23

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/030110.b/059f5901.d
Lab Smp Id: 1202054831 Client Smp ID: RE15-10-8317MSD
Inj Date : 01-MAR-2010 16:50
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |1202054831|1|
Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MSD|||
Comment :
Method : /chem/ecdl1a.i/030110.b/ECD1-F-8082-022210.m
Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:08 Cal File: 036f3601.d
Als bottle: 59 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1982.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	6.34340	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

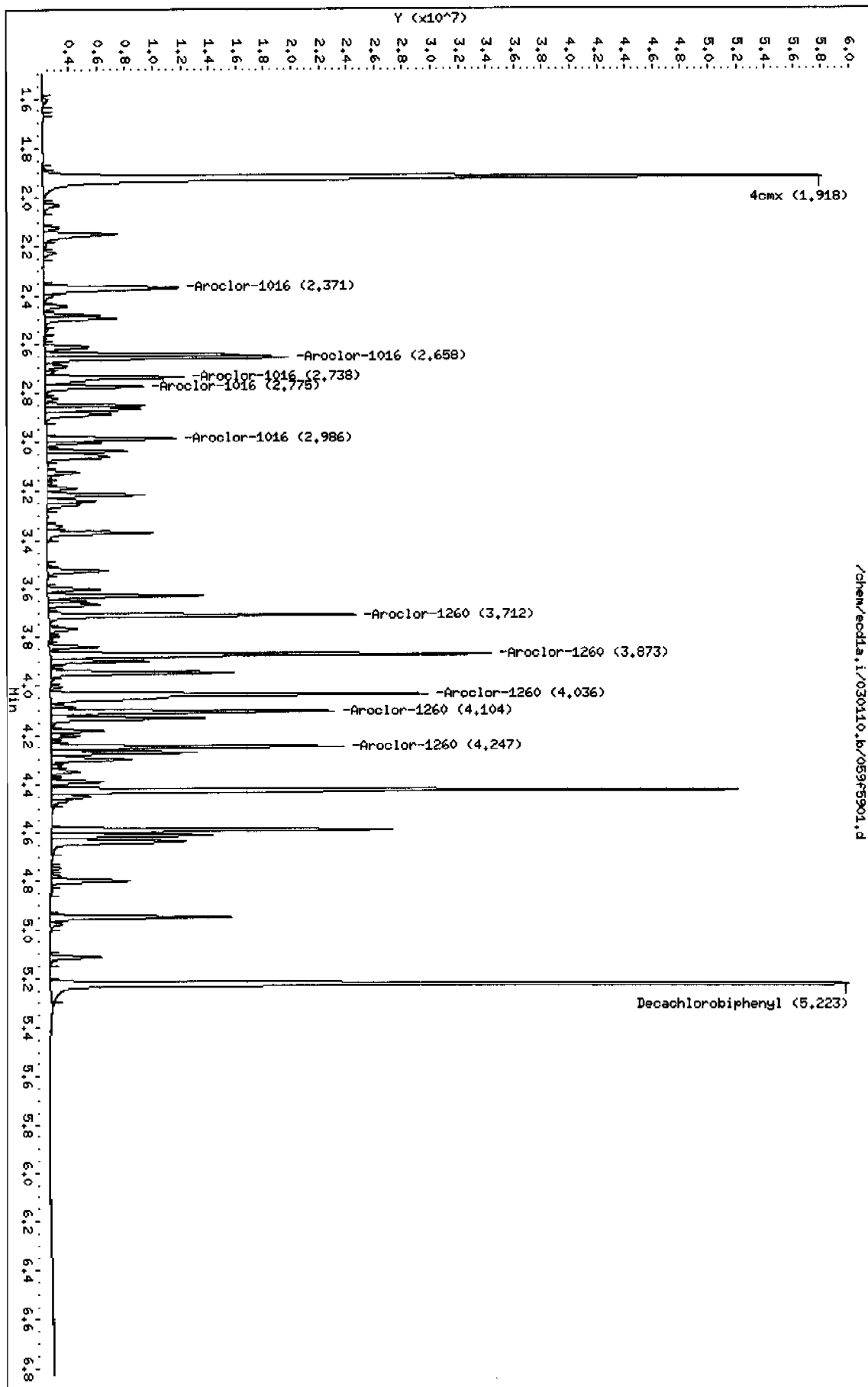
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
11	4cmx					
1.918	1.919	-0.001	62547609	145.244	5.2 80.00- 120.00	100.00
12	Decachlorobiphenyl					
5.223	5.227	-0.004	55519258	180.674	6.4 80.00- 120.00	100.00
1	Aroclor-1016					
2.371	2.373	-0.002	11229898	729.956	26.0 80.00- 120.00	100.00
2.658	2.659	-0.001	14439416	791.764	28.2 110.29- 150.29	128.58
2.738	2.740	-0.002	9477502	785.505	27.9 62.85- 102.85	84.40
2.775	2.778	-0.003	5686183	801.310	28.5 29.99- 69.99	50.63

CONCENTRATIONS								
				ON-COL	FINAL			
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
2.986	2.988	-0.002		7329573	822.421	29.3	43.89- 83.89	65.27
Average of Peak Concentrations =						28.0		

7 Aroclor-1260						CAS #: 11096-82-5		
3.712	3.714	-0.002		16351475	957.771	34.1	80.00- 120.00	100.00
3.873	3.877	-0.004		24771180	1047.70	37.3	129.88- 169.88	151.49
4.036	4.039	-0.003		26696489	1069.09	38.0	140.76- 180.76	163.27
4.104	4.107	-0.003		15194908	1054.79	37.5	70.44- 110.44	92.93
4.247	4.250	-0.003		15514199	1075.10	38.2	74.18- 114.18	94.88
Average of Peak Concentrations =						37.0		

Data File: /chem/ecdl1.i/030110.b/059f5901.d
Date: 01-MAR-2010 16:50
Client ID: RE15-10-8317MSD
Sample Info: 1120205483111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YS1
Column diameter: 0.25



Data File: /chem/ecdla.i/030110.b/059b5901.d
Report Date: 02-Mar-2010 07:23

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/030110.b/059b5901.d

Lab Smp Id: 1202054831

Client Smp ID: RE15-10-8317MSD

Inj Date : 01-MAR-2010 16:50

Operator : YS1

Inst ID: ecdla.i

Smp Info : |1202054831|1|

Misc Info : |ECD82P_1S|958180|SVA|QC A|SOIL|MSD|

Comment :

Method : /chem/ecdla.i/030110.b/ECD1-B-8082-022210.m

Meth Date : 02-Mar-2010 06:55 yip00818 Quant Type: ESTD

Cal Date : 22-FEB-2010 12:08

Cal File: 036b3601.d

Als bottle: 59

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1982.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	6.34340	% Moisture

Cpnd Variable

Local Compound Variable

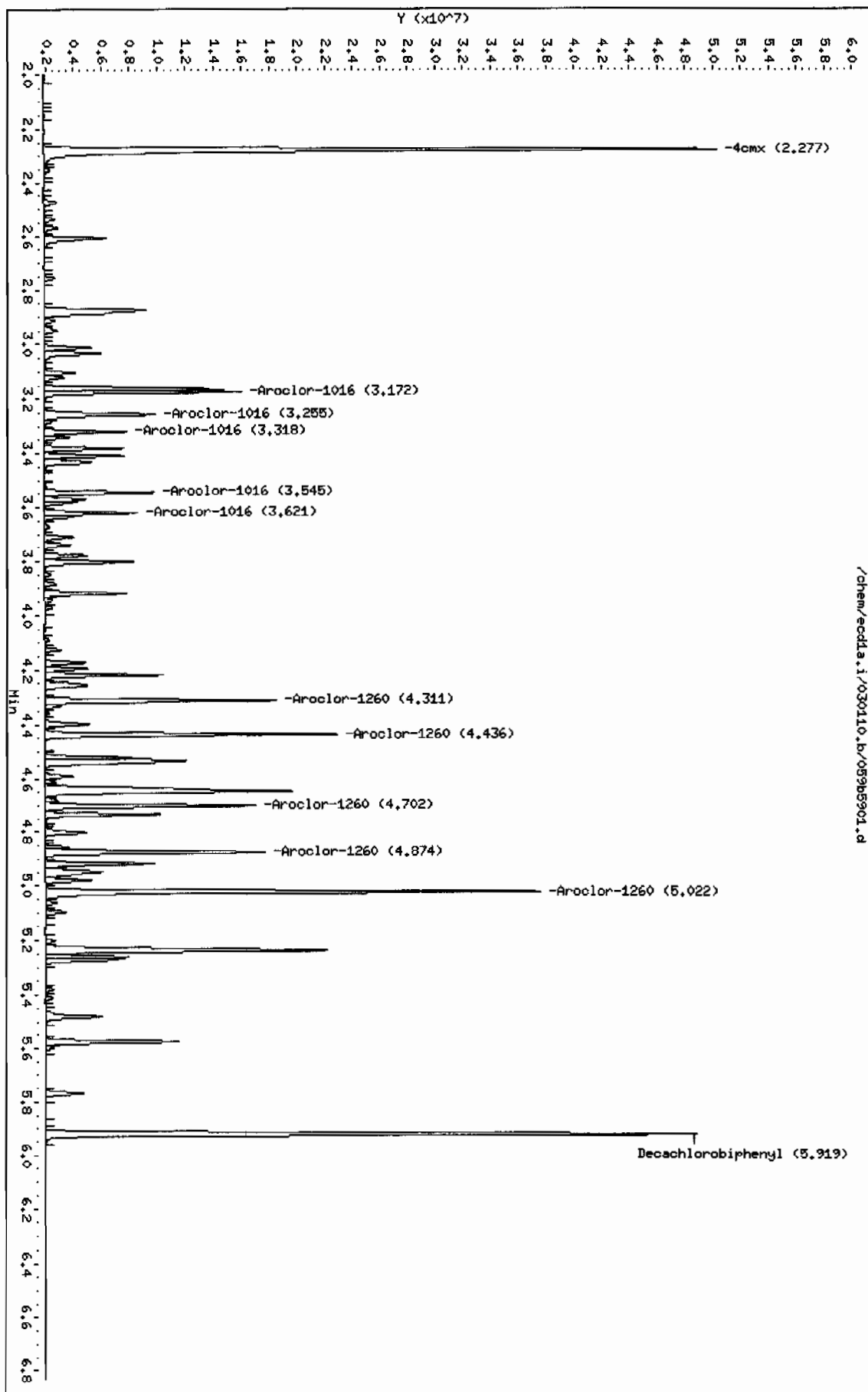
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.277	2.278	-0.001	42929186 144.350	5.1	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.919	5.923	-0.004	34842387 164.741	5.9	80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
3.172	3.174	-0.002	10553438 825.146	29.4	80.00- 120.00	100.00	
3.255	3.257	-0.002	6819286 764.672	27.2	45.07- 85.07	64.62	
3.318	3.320	-0.002	4156511 768.868	27.4	20.73- 60.73	39.39	
3.545	3.547	-0.002	5575685 806.243	28.7	32.70- 72.70	52.83	

CONCENTRATIONS									
		ON-COL		FINAL					
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
1 Aroclor-1016 (continued)									
3.621	3.623	-0.002	5199855	809.289	28.8	28.82-	68.82	49.27	
Average of Peak Concentrations =					28.3				

7 Aroclor-1260					CAS #: 11096-82-5				
4.311	4.314	-0.003	11882928	899.837	32.0	80.00-	120.00	100.00	
4.436	4.439	-0.003	14751817	947.645	33.7	102.36-	142.36	124.14	
4.702	4.704	-0.002	11169542	943.095	33.6	72.08-	112.08	94.00	
4.874	4.878	-0.004	11554667	947.011	33.7	75.80-	115.80	97.24	
5.022	5.024	-0.002	26321231	992.237	35.3	194.47-	234.47	221.50	
Average of Peak Concentrations =					33.7				

Data File: /chem/ecdl.a.i/030110.b/059b5901.d
Date: 01-MAR-2010 16:50
Client ID: RE15-10-8317HSD
Sample Info: 1120205483111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl.a.i
Operator: YSI
Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/23/2010 METHOD: ECD1-F-8082-022210.m OPERATOR:YSI REVIEWED BY: _____
DATE: _____HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,

DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,

BF-Before, AF-After.

Sequence Number: /chem/ecdla.i/022210.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR100219-99 01	YS1	22-FEB-2010 05:59	1	022210	1	1.01	CLEAN
1002f0201.d	1WAR100203-60 01	YS1	22-FEB-2010 06:10	1	022210	1	1.01	DUSE RE-ICAL
1003f0301.d	1AR1660-4	YS1	22-FEB-2010 06:20	1	022210	1	1.01	DUSE SCREEN
1004f0401.d	1WAR091219-DDT	YS1	22-FEB-2010 06:31	1	022210	1	1.01	DDT ANALOG STANDARD
1005f0501.d	1WAR100104-32	YS1	22-FEB-2010 06:41	1	022210	1	1.01	PATTERN ONLY
1006f0601.d	1WAR100104-21	YS1	22-FEB-2010 06:52	1	022210	1	1.01	PATTERN ONLY
1007f0701.d	1WAR100104-62	YS1	22-FEB-2010 07:03	1	022210	1	1.01	PATTERN ONLY
1008f0801.d	1WAR100222-01 60	YS1	22-FEB-2010 07:13	1	022210	1	1.01	1AR1660 I-CAL LEVEL 1
1009f0901.d	1WAR100222-02 60	YS1	22-FEB-2010 07:24	1	022210	1	1.01	1AR1660 I-CAL LEVEL 2
1010f1001.d	1WAR100222-03 60	YS1	22-FEB-2010 07:34	1	022210	1	1.01	1AR1660 I-CAL LEVEL 3
1011f1101.d	1WAR100222-04 60	YS1	22-FEB-2010 07:45	1	022210	1	1.01	1AR1660 I-CAL LEVEL 4
1012f1201.d	1WAR100104-01	YS1	22-FEB-2010 07:55	1	022210	1	1.01	1AR1660 I-CAL LEVEL 5
1013f1301.d	1WAR100203-60 01	YS1	22-FEB-2010 08:06	1	022210	1	1.01	PASSED ON BOTH COLUMNS
1014f1401.d	1WAR100222-05 54	YS1	22-FEB-2010 08:16	1	022210	1	1.01	1AR1254 I-CAL LEVEL 1
1015f1501.d	1WAR100222-06 54	YS1	22-FEB-2010 08:27	1	022210	1	1.01	1AR1254 I-CAL LEVEL 2

Instrument Batch: /chem/ecdla.i/022210.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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1016f1601.d		WARI00222-07 54		YS1		22-FEB-2010 08:37		022210		1.0		ARI254 I-CAL LEVEL 3	
1017f1701.d		WARI00222-08 54		YS1		22-FEB-2010 08:48		022210		1.0		ARI254 I-CAL LEVEL 4	
1018f1801.d		IARI00219-02		YS1		22-FEB-2010 08:59		022210		1.0		ARI254 I-CAL LEVEL 5	
1019f1901.d		WARI00219-54		YS1		22-FEB-2010 09:09		022210		1.0		PASSED ON BOTH COLUMNS	
1020f2001.d		WARI00222-09 42		YS1		22-FEB-2010 09:20		022210		1.0		ARI242 I-CAL LEVEL 1	
1021f2101.d		WARI00222-10 42		YS1		22-FEB-2010 09:30		022210		1.0		ARI242 I-CAL LEVEL 2	
1022f2201.d		WARI00222-11 42		YS1		22-FEB-2010 09:41		022210		1.0		ARI242 I-CAL LEVEL 3	
1023f2301.d		WARI00222-12 42		YS1		22-FEB-2010 09:51		022210		1.0		ARI242 I-CAL LEVEL 4	
1024f2401.d		IARI00219-01		YS1		22-FEB-2010 10:02		022210		1.0		ARI242 I-CAL LEVEL 5	
1025f2501.d		WARI00219-42		YS1		22-FEB-2010 10:12		022210		1.0		PASSED ON BOTH COLUMNS	
1026f2601.d		WARI00222-13 48		YS1		22-FEB-2010 10:23		022210		1.0		ARI248 I-CAL LEVEL 1	
1027f2701.d		WARI00222-14 48		YS1		22-FEB-2010 10:33		022210		1.0		ARI248 I-CAL LEVEL 2	
1028f2801.d		WARI00222-15 48		YS1		22-FEB-2010 10:44		022210		1.0		ARI248 I-CAL LEVEL 3	
1029f2901.d		IARI00211-01		YS1		22-FEB-2010 10:54		022210		1.0		ARI248 I-CAL LEVEL 5	
1030f3001.d		WARI00222-16		YS1		22-FEB-2010 11:05		022210		1.0		ARI248 I-CAL LEVEL 4	
1031f3101.d		WAR091217-48		YS1		22-FEB-2010 11:16		022210		1.0		PASSED ON BOTH COLUMNS	
1032f3201.d		WARI00222-17 68		YS1		22-FEB-2010 11:26		022210		1.0		ARI268 I-CAL LEVEL 1	
1033f3301.d		WARI00222-18 68		YS1		22-FEB-2010 11:37		022210		1.0		ARI268 I-CAL LEVEL 2	
1034f3401.d		WARI00222-19 68		YS1		22-FEB-2010 11:47		022210		1.0		ARI268 I-CAL LEVEL 3	
1035f3501.d		WARI00222-20 68		YS1		22-FEB-2010 11:58		022210		1.0		ARI268 I-CAL LEVEL 4	

Page: 2

Instrument Batch: /chem/ecdl.a.i/022210.b

1036f3601.d		IARI00104-05		YS1		22-FEB-2010 12:08		022210		1.0		ARI268 I-CAL LEVEL 5	
1037f3701.d		WARI00107-68		YS1		22-FEB-2010 12:19		022210		1.0		PASSED ON BOTH COLUMNS	
1038f3801.d		WARI00219-99 02		YS1		22-FEB-2010 12:29		022210		1.0		CLEAN	
1039f3901-1.d		1202046866		YS1		22-FEB-2010 12:40		954781		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER	
1039f3901-2.d		1202046866		YS1		22-FEB-2010 12:40		954781		1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER	

1039f3901.d	1202046866	YS1	22-FEB-2010 12:40	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-1.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1846	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001-2.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1848	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1202046867	YS1	22-FEB-2010 12:50	954781	10-1808	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1041f4101.d	246968001	YS1	22-FEB-2010 13:01	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	246968002	YS1	22-FEB-2010 13:14	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	246968003	YS1	22-FEB-2010 13:26	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	246968004	YS1	22-FEB-2010 13:39	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	246968005	YS1	22-FEB-2010 13:51	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	246968006	YS1	22-FEB-2010 14:04	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	246968007	YS1	22-FEB-2010 14:17	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	246968008	YS1	22-FEB-2010 14:30	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	WAR100203-60 C2	YS1	22-FEB-2010 14:42		1022210	1.0	PASSED ON BOTH COLUMNS
1050f5001.d	WAR100219-99 03	YS1	22-FEB-2010 14:53		1022210	1.0	CLEAN
1051f5101.d	246968009	YS1	22-FEB-2010 15:03	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1052f5201.d	246968010	YS1	22-FEB-2010 15:16	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	246968011	YS1	22-FEB-2010 15:28	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	246968012	YS1	22-FEB-2010 15:41	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	246968013	YS1	22-FEB-2010 15:54	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	246968014	YS1	22-FEB-2010 16:06	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	246968015	YS1	22-FEB-2010 16:19	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	246968016	YS1	22-FEB-2010 16:32	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	246968017	YS1	22-FEB-2010 16:44	954781	10-1808	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1060f6001.d	247121002	YS1	22-FEB-2010 16:57	954781	10-1846	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/022210.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 03/02/2010 METHOD: ECD1-F-8082-022210.m OPERATOR: YSI REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT DA936
ALUMINA LOT 1273992-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/030110.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR100219-99 01	YS1	01-MAR-2010 05:35		030110	1.0	1.0	CLEAN
1002f0201.d	1WAR100222-60 01	YS1	01-MAR-2010 05:46		030110	1.0	1.0	DUSE RR FILE 5
1003f0301.d	1WAR100219-54	YS1	01-MAR-2010 05:56		030110	1.0	1.0	PASSED ON BOTH COLUMNS
1004f0401.d	1WAR100219-42	YS1	01-MAR-2010 06:07		030110	1.0	1.0	PASSED ON BOTH COLUMNS
1005f0501.d	1WAR100223-48	YS1	01-MAR-2010 06:17		030110	1.0	1.0	PASSED ON BOTH COLUMNS
1006f0601.d	1WAR100222-60 01	YS1	01-MAR-2010 06:28		030110	1.0	1.0	PASSED ON BOTH COLUMNS
1007f0701.d	1WAR100107-68	YS1	01-MAR-2010 06:38		030110	1.0	1.0	PASSED ON BOTH COLUMNS
1008f0801.d	1WAR100104-32	YS1	01-MAR-2010 06:49		030110	1.0	1.0	PATTERN ONLY
1009f0901.d	1WAR100104-21	YS1	01-MAR-2010 06:59		030110	1.0	1.0	PATTERN ONLY
1010f1001.d	1WAR100104-62	YS1	01-MAR-2010 07:10		030110	1.0	1.0	PATTERN ONLY
1011f1101.d	1WAR091219-DDT	YS1	01-MAR-2010 07:20		030110	1.0	1.0	DDT ANALOG STANDARD
1012f1201.d	1WAR100219-99 02	YS1	01-MAR-2010 07:31		030110	1.0	1.0	CLEAN
1013f1301.d	11202055253	YS1	01-MAR-2010 07:41	958351	030110	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1014f1401.d	11202055254	YS1	01-MAR-2010 07:52	958351		1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1015f1501.d	11202055257	YS1	01-MAR-2010 08:02	958351		1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd1a.i/030110.b

Page: 1

Data File | GEL Lab Sample ID | Analyst | Injection Date/Time | Batch | SDG | Dilution | Client | Comments

1016f1601.d	1247750003	YS1	01-MAR-2010 08:13	958351	MMR09-053	1.0 PAES	UPLOAD BOTH COLUMNS, USE HIGHER
1017f1701.d	1WARI0222-60 02	YS1	01-MAR-2010 08:25		030110	1.0	PASSED ON BOTH COLUMNS
1018f1801.d	1WARI00219-99 03	YS1	01-MAR-2010 08:36		030110	1.0	CLEAN
1019f1901.d	1202050502	YS1	01-MAR-2010 08:47	958272	SP4016	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1020f2001.d	1202050503	YS1	01-MAR-2010 08:57	958272	SP4016	1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1021f2101.d	1247573001	YS1	01-MAR-2010 09:07	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1022f2201.d	1202050504	YS1	01-MAR-2010 09:20	958272	SP4016	2.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1023f2301.d	1202050505	YS1	01-MAR-2010 09:33	958272	SP4016	2.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
1024f2401.d	1247573002	YS1	01-MAR-2010 09:45	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1025f2501.d	1247573003	YS1	01-MAR-2010 09:58	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1026f2601.d	1247573004	YS1	01-MAR-2010 10:10	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1027f2701.d	1247573005	YS1	01-MAR-2010 10:23	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1028f2801.d	1247573006	YS1	01-MAR-2010 10:36	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1029f2901.d	1WARI00222-60 03	YS1	01-MAR-2010 10:48		030110	1.0	PASSED ON BOTH COLUMNS
1030f3001.d	1WARI00219-99 04	YS1	01-MAR-2010 10:59		030110	1.0	CLEAN
1031f3101.d	1247573007	YS1	01-MAR-2010 11:09	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1032f3201.d	1247573008	YS1	01-MAR-2010 11:22	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1033f3301.d	1247573009	YS1	01-MAR-2010 11:35	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1034f3401.d	1247573010	YS1	01-MAR-2010 11:47	958272	SP4016	2.0 ORNL	UPLOAD BOTH COLUMNS, USE HIGHER
1035f3501.d	1248057001	YS1	01-MAR-2010 12:00	958272	W4556	5.0 LBNL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1a.i/030110.b Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1WARI00222-60 03	YS1	01-MAR-2010 12:12		030110	1.0		PASSED ON BOTH COLUMNS
1037f3701.d	1WARI00219-99 04	YS1	01-MAR-2010 12:23		030110	1.0		CLEAN
1038f3801.d	1202054828	YS1	01-MAR-2010 12:33	958180	10-1959	1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1039f3901.d	1202054829	YS1	01-MAR-2010 12:44	958180	10-1959	1.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
1040f4001.d	1247569002	YS1	01-MAR-2010 12:55	958180	10-1959	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER

1041f4101.d	1247569003	YS1	01-MAR-2010 13:07	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1042f4201.d	1247569004	YS1	01-MAR-2010 13:20	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1043f4301.d	1247569005	YS1	01-MAR-2010 13:32	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1044f4401.d	1247569006	YS1	01-MAR-2010 13:45	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1045f4501.d	1247569007	YS1	01-MAR-2010 13:58	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1046f4601.d	1247569008	YS1	01-MAR-2010 14:10	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1047f4701.d	1247569009	YS1	01-MAR-2010 14:23	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1048f4801.d	1247569010	YS1	01-MAR-2010 14:35	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1049f4901.d	1247569011	YS1	01-MAR-2010 14:46	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1050f5001.d	1247569012	YS1	01-MAR-2010 15:09	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1051f5101.d	1247569013	YS1	01-MAR-2010 15:21	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1052f5201.d	1247569014	YS1	01-MAR-2010 15:34	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1053f5301.d	1247569015	YS1	01-MAR-2010 15:47	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1054f5401.d	1247569016	YS1	01-MAR-2010 16:00	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1055f5501.d	1247569017	YS1	01-MAR-2010 16:12	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1056f5601.d	1247569018	YS1	01-MAR-2010 16:25	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1057f5701.d	1247569019	YS1	01-MAR-2010 16:37	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1058f5801.d	1247569020	YS1	01-MAR-2010 16:50	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1059f5901.d	1247569021	YS1	01-MAR-2010 17:02	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1060f6001.d	1247569022	YS1	01-MAR-2010 17:15	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1061f6101.d	1247569023	YS1	01-MAR-2010 17:28	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1062f6201.d	1247569024	YS1	01-MAR-2010 17:40	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1063f6301.d	1247569025	YS1	01-MAR-2010 17:53	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
1064f6401.d	1247569026	YS1	01-MAR-2010 18:06	958180	10-1959	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1.i/030110.b

1090f9001.d	1247820007	YSL	01-MAR-2010 23:19	958315	10-1994	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER	1
1091f9101.d	WAR100222-60 09	YSL	01-MAR-2010 23:32	1	030110	1.0		PASSED ON BOTH COLUMNS	1
1092f9201.d	WAR100219-99 10	YSL	01-MAR-2010 23:44	1	030110	1.0		CLEAN	1

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 958178 Verified by: _____

Analyst: Andrew Schwenin

Method: SW846 3550B

Lab SOP: GL-OA-E-010 REV# 18

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Clean/Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202054828 MB	26-FEB-2010 20:38:00	30	H2SO4/KM2	2	9	1	0.03333	
1202054829 LCS	26-FEB-2010 20:38:00	30	H2SO4/KM2	2	9	1	0.03333	
247569002	26-FEB-2010 20:38:00	30.04	H2SO4/KM2	2	9	1	0.03329	
247569003	26-FEB-2010 20:38:00	30.1	H2SO4/KM2	2	9	1	0.03322	
247569004	26-FEB-2010 20:38:00	30.1	H2SO4/KM2	2	9	1	0.03322	
247569005	26-FEB-2010 20:38:00	30.17	H2SO4/KM2	2	9	1	0.03315	
247569006	26-FEB-2010 20:38:00	30.03	H2SO4/KM2	2	9	1	0.0333	
247569007	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247569008	26-FEB-2010 20:38:00	30.04	H2SO4/KM2	2	9	1	0.03329	
247569009	26-FEB-2010 20:38:00	30.15	H2SO4/KM2	2	9	1	0.03317	
247569010	26-FEB-2010 20:38:00	30.17	H2SO4/KM2	2	9	1	0.03315	
247569011	26-FEB-2010 20:38:00	30.19	H2SO4/KM2	2	9	1	0.03312	
247569012	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247790002	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247790003	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247791002	26-FEB-2010 20:38:00	30.07	H2SO4/KM2	2	9	1	0.03326	
1202054830 MS (247791002)	26-FEB-2010 20:38:00	30.06	H2SO4/KM2	2	9	1	0.03327	
1202054831 MSD (247791002)	26-FEB-2010 20:38:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247791003	26-FEB-2010 20:38:00	30.03	H2SO4/KM2	2	9	1	0.0333	
247791004	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247791005	26-FEB-2010 20:38:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247791006	26-FEB-2010 20:38:00	30.12	H2SO4/KM2	2	9	1	0.0332	
T Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202054829	PCB Laboratory Control	WEI000224-07	1	mL	Clean up Date: 2/26/10		
MS	1202054830	PCB Laboratory Control	WEI000224-07	1	mL	Clean up Initials: AAW		
MSD	1202054831	PCB Laboratory Control	WEI000224-07	1	mL	Verified By: AAW		
SURR	All	PEST LOW LEVEL SURROGATE 200 U/G/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	Hexane	1273340-B2	150	mL			
REGNT	All	Acetone	1273823-B1	150	mL			
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL			
SOURC	All	SODIUM SULFATE	1274910	30	g			