

REQUEST NUMBER: 10-1036

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These Samples are on:

LANL Request Number:10-1036

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

SHIP DATE: 12/22/2009

TURNAROUND REQ'D: 30 Days

LAB REQUEST COMMENTS:

Signature:

James

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8062	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
	SW-846:8270C	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	

Tuesday, December 22, 2009

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REQUEST NUMBER: 10-1036

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD		1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
		1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	
		1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
		1	RE12-10-7867	SWP	12/18/2009	
		1	RE12-10-7868	SWP	12/18/2009	

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Tuesday, December 22, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1036

LOS ALAMOS

REQUEST NUMBER: 10-1036

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/21/2010

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
RE12-10-7288	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7290	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7289	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7291	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7292	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7293	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7296	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7867	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP
RE12-10-7868	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP

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: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7288

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1033		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-004(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	12-610553			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.75		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 12M 12/18/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brown sandy silt, slightly damp

SAMPLE COMMENTS:

NA

LOCATION DESC:

4b-2, west of pipe 10 ft

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm

HE negative

BX ≤ 2190 dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	12/18/09	(Printed Name) S. MARCZAK	12/18/09
(Signature) Larry A. Lopez	16:20	(Signature) [Signature]	1620
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7289

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/18/2009	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1044	SUB-MEDIA:	TUFF 1	
PRS ID:	12-004(b)	ok	SAMPLE TECH CODE:	HA	
LOCATION ID:	12-610553	↓	FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	
TOP DEPTH:	0	2.2	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.0	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	ok	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY 744 12/18/09	None	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray dry stuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

4b-2

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 44$ dpm138 \leq 2200 dpm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) Larry A. Lopez (Signature) Larry A. Lopez	Date/Time 12/18/09 16:26	RECEIVED BY (Printed Name) S. MARCUM (Signature) [Signature]	Date/Time 12/18/09 1620
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7290

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/18/2009	MEDIA:	QBT3	ok
TIME COLLECTED (HH:MM)		1110	SUB-MEDIA:	TUFF 1	
PRS ID:	12-004(b)	ok	SAMPLE TECH CODE:	HA	
LOCATION ID:	12-610553	↓	FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	
TOP DEPTH:	0	5.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	6.0	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	ok	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY thm 12/18/09	None	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY LL	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray dry Tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 4b-2

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 38$ dpm $\text{BY} \leq 2560$ dpm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	12/18/09	(Printed Name) S. MARCAY	12/18/09
(Signature) Larry A. Lopez	16:20	(Signature) [Signature]	1620
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7291

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA: OBT3		AG 12/18/2009	
TIME COLLECTED (HH:MM)		11:30		SUB-MEDIA: TUFF 1		OK Allh	
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE: HA			
LOCATION ID:	12-610554			FIELD QC TYPE: NA			
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA			
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV			
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC: NA			
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY AG 12/18/2009	None	↓	
1	↓	Met+U+CLO4+C N	1 GAL POLY IL	Ice	↓	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	↓	

SAMPLE DESC: Dry brown top soil with tuff fragments

SAMPLE COMMENTS: None

LOCATION DESC: 4b-1

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 60$ dpm

HE negative

 $B/H \leq 2300$

COLLECTED BY (PRINT)

Larry A. Lopez

REVIEWED BY (PRINT)

S. MARRAS

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	12/18/09	(Printed Name) S. MARRAS	12/18/09
(Signature) Larry A. Lopez	16:20	(Signature) [Signature]	1620
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7292

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		1145		SUB-MEDIA:	TUFF 1		
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		
LOCATION ID:	12-610554			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA	NO/NA		
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		Met+U+CLO4+C N	1 GAL POLY L 12/18/2009	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Light/brown white tuff Rinsate: RE12-10-7290

96 12/18/2009
 SAMPLE COMMENTS: ~~None~~ interface: 2.5' bgs

LOCATION DESC: 4b-1

FIELD SCREENING/MEASUREMENT RESULTS:

2" 33 dpm

8/8 2700 dpm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

RELINQUISHED BY

(Printed Name)

(Signature)

Date/Time

12/18/09

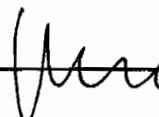
16:20

RECEIVED BY

(Printed Name)

(Signature)

S. MARIZAN



Date/Time

12/18/09

16:20

RELINQUISHED BY

(Printed Name)

(Signature)

Date/Time

RECEIVED BY

(Printed Name)

(Signature)

Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7293

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1200		SUB-MEDIA:	TUFF 1		
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		
LOCATION ID:	12-610554			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	5.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	6.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA	NO/NA		
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		Met+U+CLO4+C N	1 GAL POLY L AG 12/18/2009	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Gray weakly indurated → indurated tuff

SAMPLE COMMENTS: None

LOCATION DESC: 12-0046-01

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 38 \text{ dpm}$ $\text{B}/\text{P} \leq 2300 \text{ dpm}$

COLLECTED BY (PRINT)

A. Goumas

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) <i>Larry A. Lopez</i> (Signature) <i>Larry A. Lopez</i>	Date/Time 12/18/09 16:20	RECEIVED BY (Printed Name) <i>S. MARRAS</i> (Signature) <i>[Signature]</i>	Date/Time 12/18/09 1620
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7296

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/18/2009	MEDIA:	QBT3	12/18/09 OK
TIME COLLECTED (HH:MM)		11:30	SUB-MEDIA:	TUFF 1	ALL
PRS ID:	12-004(b)	OK	SAMPLE TECH CODE:	HA	
LOCATION ID:	UNK	12-610554	FIELD QC TYPE:	ED	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	1.0	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
BOREHOLE: YES/NO/NA	NO		BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		Met+U+CLO4+C N	1 GAL POLY L AG 12/18/09	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: QC Sample of RE12-10-7291, Dry brown top soil with tuff fragments

SAMPLE COMMENTS: None

LOCATION DESC: 12-004b - 1

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 60$ dpm HE Neg $\beta/\gamma \leq 2160$ dpm

COLLECTED BY (PRINT)

LARRY A. LOPEZ

REVIEWED BY (PRINT)

C. MAROY

RELINQUISHED BY

(Printed Name) Larry A. Lopez

(Signature) Larry A. Lopez

Date/Time

12/18/09

16:20

RECEIVED BY

(Printed Name) C. MAROY

(Signature) M

Date/Time

12/18/09

1620

RELINQUISHED BY

(Printed Name)

(Signature)

Date/Time

RECEIVED BY

(Printed Name)

(Signature)

Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7298

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1200		SUB-MEDIA:	OTHER		
PRS ID:	12-004(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	12-610554		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:	NA		
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA	COMPOSITE TIME INTERVAL:	NA	WATER FLOWING: YES/NO/NA	NA		
BOREHOLE: YES/NO/NA	NA	BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE12-10-7292

SAMPLE COMMENTS: None

LOCATION DESC: 12-004b-01

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

A. Groumas

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Larry A. Lopez (Signature) Larry A. Lopez	Date/Time 12/18/09 16:20	RECEIVED BY (Printed Name) S. MARZUTTA (Signature) JM	Date/Time 12/18/09 1620
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7867

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		12/18/2009	MEDIA:		NA
TIME COLLECTED (HH:MM)		1337	SUB-MEDIA:		OTHER
PRS ID:	12-004(b)	ok	SAMPLE TECH CODE:		M
LOCATION ID:	12-610702		FIELD QC TYPE:		NA
LOCATION TYPE:	GENERIC		FIELD PREP:		NA
TOP DEPTH:	0		SAMPLE USAGE:		INV
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	SWP		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:		NA	COMPOSITE TIME INTERVAL:		NA
BOREHOLE: YES/NO/NA			WATER FLOWING: YES/NO/NA		
BOREHOLE DECLINATION:		NA	BOREHOLE DIRECTION:		NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	SWP-Am-241	1 EA 8 IN RESEALABLE POLY BAG	None	Y	
1		SWP-GS	1 EA 8 IN RESEALABLE POLY BAG	None	Y	
1		SWP-ISOPU	1 EA 8 IN RESEALABLE POLY BAG	None	Y	
1		SWP-ISOU	1 EA 8 IN RESEALABLE POLY BAG	None	Y	
1		SWP-NMED-Exp	1 EA 8 IN RESEALABLE POLY BAG	None	Y	
1		SWP-U	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

swipe sample from interior of pipe

SAMPLE COMMENTS:

NA

LOCATION DESC:

Interior of pipe

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TLM cFarland

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	12/18/09	S. MATHURAN	12/18/09
(Signature) Larry A. Lopez	1420	(Signature) [Signature]	1620
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2481

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Canyon

SAMPLE ID: RE12-10-7868

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		12/18/2009		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1345		SUB-MEDIA:	OTHER		
PRS ID:	12-004(b)	ok		SAMPLE TECH CODE:	M		
LOCATION ID:	12-610703	12-610702		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0			SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:	NA		
FIELD MATRIX:	SWP			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:			
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	SWP-Am-241	1 EA 8 IN RESEALABLE POLY BAG	None	y	
1		SWP-GS	1 EA 8 IN RESEALABLE POLY BAG	None	y	
1		SWP-ISOPU	1 EA 8 IN RESEALABLE POLY BAG	None	y	
1		SWP-ISOU	1 EA 8 IN RESEALABLE POLY BAG	None	y	
1		SWP-NMED-Exp	1 EA 8 IN RESEALABLE POLY BAG	None	y	
1		SWP-U	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

swipe sample from exterior of pipe

SAMPLE COMMENTS:

NA

LOCATION DESC:

Exterior of pipe

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Lacey A. Lopez

RELINQUISHED BY (Printed Name) Lacey A. Lopez (Signature) Lacey A. Lopez	Date/Time 12/18/09 1620	RECEIVED BY (Printed Name) S. MARZAN (Signature) [Signature]	Date/Time 12/18/09 1620
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

Rad Screening Data Release Form

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

RE12-10-7288
↓
-7289
-7290
-7291
-7296 (AD)
-7292
-7293
-7295 LMC 12/18/09
-7868
-7867
-7551
-7552
-7554
-7553

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

.....
The following samples do not require rad screening data for the reasons stated (list sample numbers): RE12-10-7298

Reason: Field Insate (FK)

.....
Print Last Name

LOPEZ

Signature

Randy A. Lopez

Date

12/18/09

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number): RE12-10-7288

↓ ↓
-7289
-7290
-7291
-7296 (AD)
-7292
-7293
-7298 LAL 12/18/09
-7868
-7867
-7551
-7552
-7554
-7553

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

.....
The following samples do not require rad screening data for the reasons stated (list sample numbers): RE12-10-7298

Reason: Field Release (FR)

.....
Print Last Name LOPEZ Signature Larry A. Lopez Date 12/18/09



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: RE12-10-7288

ARS Sample ID: ARS2-09-00167-001

Sample Collection Date: 12/18/09 10:33

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	18.37	18.67	27.29	18.21		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	34.62	10.72	13.42	11.53		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	22.42	9.00	2.03	9.03		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CR-60	0.00	13.27	0.13	13.27		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.32	0.22	0.10	0.22		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.01	0.06	0.06	0.06		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.00	13.80	0.13	13.80		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	1.51	0.66	0.25	0.66		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	1.63	0.87	0.35	0.87		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	-0.08	118.36	0.27	118.36		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	1.11	3.32	1.06	3.33		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	-0.01	36.78	0.08	36.78		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.75

[Signature]
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request of PU Number:

Client Sample ID: RE12-10-7289

ARS Sample ID: ARS2-09-00167-002

Sample Collection Date: 12/18/09 10:44

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Unit	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	21.89	17.33	23.52	17.54		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	29.95	10.34	13.22	10.97		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	14.19	6.91	1.83	6.92		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.00	11.97	0.12	11.97		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.07	0.10	0.09	0.10		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.01	15.06	0.08	15.06		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.84	0.73	0.14	0.73		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	1.65	0.69	0.20	0.69		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	1.83	1.21	0.32	1.21		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	0.07	106.72	0.24	106.72		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	0.20	1.88	1.17	1.88		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.46	0.32	0.09	0.32		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.97

Matt J. Eden
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: RE12-10-7290

ARS Sample ID: ARS2-09-00167-003

Sample Collection Date: 12/18/09 11:10

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MbC	YPU	Quik	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	31.27	19.86	23.69	20.23		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	45.76	12.33	14.19	13.54		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.16	0.23	0.13	0.23		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	31.32	10.62	2.06	10.66		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.00	13.51	0.14	13.51		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.16	0.15	0.10	0.15		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.20	0.21	0.09	0.21		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.81	0.52	0.16	0.53		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	1.78	0.74	0.28	0.74		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	2.30	1.04	0.36	1.09		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	1.46	0.97	0.40	0.97		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	2.49	3.31	1.53	3.36		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.41	0.34	0.12	0.34		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.25

Matthew J. Edgar
Quality Assurance Review

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NELAP Certificate # E87558



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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: RE12-10-7291

ARS Sample ID: ARS2-09-00167-004

Sample Collection Date: 12/18/09 11:30

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MTC	Toll	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	37.76	21.52	25.32	22.01		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	32.02	10.69	13.13	11.39		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.05	0.11	0.09	0.11		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	29.85	8.68	1.99	8.72		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CR-50	0.05	0.11	0.09	0.11		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.12	0.17	0.07	0.17		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.06	0.10	0.06	0.10		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.05	0.09	0.28	0.09		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	1.39	0.30	0.19	0.31		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	1.63	0.87	0.29	0.87		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	1.50	0.98	0.40	0.98		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	7.45	4.20	1.94	4.93		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.39	0.32	0.12	0.32		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.81

Matthew J. Edger
Quality Assurance Review

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NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: R512-10-7292

ARS Sample ID: ARS2-09-00167-005

Sample Collection Date: 12/18/09 11:45

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MHC	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	28.26	10.32	27.29	20.81		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	39.86	11.22	13.42	12.24		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.06	0.13	0.11	0.13		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	20.70	7.65	1.68	7.88		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.00	11.82	0.11	11.02		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.31	0.26	0.08	0.26		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.08	0.12	0.07	0.12		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.28	0.40	0.13	0.40		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	1.57	0.53	0.14	0.53		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-226	1.17	0.61	0.48	0.61		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	1.51	0.95	0.30	0.95		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	3.24	4.38	1.74	4.99		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.19	0.26	0.12	0.26		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.58

Matthew J. Edus
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E97558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167
 Client Sample ID: RE12-10-7293
 Sample Collection Date: 12/18/09 12:00
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-09-00167-006
 Date Received: 12/22/09 00:00
 Report Date: 12/28/09 12:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YDU	Unit	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	31.11	19.55	23.52	19.92		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	38.66	11.13	13.22	12.09		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	32.87	10.30	1.86	10.35		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.00	12.19	0.12	12.19		pCi/g	EPA 901.1M	12/28/2009	MP	N/A
CS-134	0.06	0.11	0.09	0.11		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	-0.01	15.95	0.00	15.95		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.00	64.44	0.14	64.44		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PS-212	1.17	0.58	0.23	0.58		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	2.60	1.05	0.23	1.05		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	2.70	1.58	0.53	1.58		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	3.47	3.20	1.52	3.39		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	-0.01	25.43	0.06	25.43		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.20

Matthew J. Edm
 Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: RE12-10-7296

ARS Sample ID: ARS2-09-00167-007

Sample Collection Date: 12/18/09 11:30

Date Received: 12/23/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	YS-1	Quot	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.37	13.41	23.69	15.51		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	32.52	11.06	14.19	11.76		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	26.15	9.92	2.12	9.95		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.00	13.93	0.14	13.93		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	-0.01	18.22	0.09	18.22		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.93	0.46	0.16	0.66		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	2.66	0.67	0.17	0.68		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	1.88	0.87	0.37	0.87		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	1.30	0.69	0.37	0.69		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	0.89	2.23	1.30	2.24		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.07	0.29	0.15	0.29		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 0.78

Matthew J. Fisher
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-09-00167

Request or PO Number:

Client Sample ID: RE12-10-7851

ARS Sample ID: ARS2-09-00167-008

Sample Collection Date: 12/18/09 14:25

Date Received: 12/22/09 00:00

Sample Matrix: Soil/Solid

Report Date: 12/28/09 12:32

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	YPU	Qual	Analysis Units	Analysis Lab Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	26.28	19.02	25.32	19.29		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
GROSS BETA	28.27	10.34	13.13	10.81		pCi/g	EPA 900.0M	12/28/2009	ME	N/A
NA-22	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
K-40	19.98	7.71	2.24	7.74		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CO-60	0.01	29.28	0.11	29.28		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-134	0.36	0.20	0.08	0.20		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
CS-137	0.26	0.21	0.07	0.21		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
EU-152	0.72	0.71	0.19	0.71		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
PB-212	2.10	0.59	0.16	0.59		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
RA-228	1.91	1.15	0.33	1.15		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-235	1.91	1.26	0.64	1.26		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
U-238	1.11	2.82	1.95	4.95		pCi/g	EPA 901.1M	12/28/2009	ME	N/A
AM-241	0.85	0.58	0.19	0.58		pCi/g	EPA 901.1M	12/28/2009	ME	N/A

NOTES: % Moisture: 1.23

Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87559

DATA VALIDATION COVER SHEET

5115-1

Records Use only

Data Validation Cover Sheet



Section I.

REQUEST NUMBER: 10-1036 VALIDATION DATE: 02/03/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

- The %Ds for aniline; benzyl alcohol; bis(2-chloroisopropyl)ether; m,p-cresols; benzoic acid; 4-chloroaniline; 3-nitroaniline; 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol were >20% for the CCV associated with samples RE12-10-7290, -7289, -7292 and -7293. The %Ds for benzyl alcohol; bis(2-chloroisopropyl)ether; 4-chloroaniline; 3-nitroaniline; 2-methyl-4,6-dinitrophenol and 4-nitroaniline were >20% for the CCV associated with the remaining samples. The associated sample results were NDs and, thus, were qualified UJ,SV7c.


Reviewed by: ETM

Level: 1

Date: 2/5/10

VALIDATOR'S SIGNATURE: Linda Thal

DATE: 02/03/10

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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, SV12a	J-, SV12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV12c	R, SV12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The affected analyte is considered not detected because mass spectrum did not meet specifications.	N/A	U, SV8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV8a	R, SV8a
<input 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: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7288
Batch ID: 937095
Run Date: 01/04/2010 13:34
Prep Date: 12/28/2009 21:32
Data File: s7a0408.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	367	ug/kg	73.3	367
108-95-2	Phenol	U	367	ug/kg	73.3	367
95-57-8	2-Chlorophenol	U	367	ug/kg	73.3	367
106-46-7	1,4-Dichlorobenzene	U	367	ug/kg	73.3	367
621-64-7	N-Nitrosodipropylamine	U	367	ug/kg	73.3	367
59-50-7	4-Chloro-3-methylphenol	U	367	ug/kg	73.3	367
83-32-9	Acenaphthene	U	36.7	ug/kg	12.1	36.7
121-14-2	2,4-Dinitrotoluene	U	367	ug/kg	36.7	367
100-02-7	4-Nitrophenol	U	367	ug/kg	121	367
87-86-5	Pentachlorophenol	U	367	ug/kg	91.7	367
129-00-0	Pyrene	U	36.7	ug/kg	11.0	36.7
110-86-1	Pyridine	U	367	ug/kg	73.3	367
62-53-3	Aniline	U	367	ug/kg	110	367
111-44-4	bis(2-Chloroethyl) ether	U	367	ug/kg	73.3	367
541-73-1	1,3-Dichlorobenzene	U	367	ug/kg	73.3	367
100-51-6	Benzyl alcohol	U	367	ug/kg	110	367 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	367	ug/kg	73.3	367
108-60-1	bis(2-Chloroisopropyl)ether	U	367	ug/kg	73.3	367 UJ,SV7c
95-48-7	o-Cresol	U	367	ug/kg	73.3	367
65794-96-9	m,p-Cresols	U	367	ug/kg	110	367
67-72-1	Hexachloroethane	U	367	ug/kg	73.3	367
98-95-3	Nitrobenzene	U	367	ug/kg	73.3	367
78-59-1	Isophorone	U	367	ug/kg	73.3	367
88-75-5	2-Nitrophenol	U	367	ug/kg	73.3	367
105-67-9	2,4-Dimethylphenol	U	367	ug/kg	128	367
111-91-1	bis(2-Chloroethoxy)methane	U	367	ug/kg	73.3	367
120-83-2	2,4-Dichlorophenol	U	367	ug/kg	73.3	367
65-85-0	Benzoic acid	U	733	ug/kg	183	733
91-20-3	Naphthalene	U	36.7	ug/kg	11.0	36.7
106-47-8	4-Chloroaniline	U	367	ug/kg	73.3	367 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	367	ug/kg	73.3	367
91-57-6	2-Methylnaphthalene	U	36.7	ug/kg	7.33	36.7
77-47-4	Hexachlorocyclopentadiene	U	367	ug/kg	73.3	367
88-06-2	2,4,6-Trichlorophenol	U	367	ug/kg	73.3	367
95-95-4	2,4,5-Trichlorophenol	U	367	ug/kg	73.3	367
91-58-7	2-Chloronaphthalene	U	36.7	ug/kg	12.1	36.7
88-74-4	2-Nitroaniline	U	367	ug/kg	73.3	367
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	367	ug/kg	73.3	367 UJ,SV7c

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

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7288
Batch ID: 937095
Run Date: 01/04/2010 13:34
Prep Date: 12/28/2009 21:32
Data File: s7a0408.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	367	ug/kg	73.3	367
606-20-2	2,6-Dinitrotoluene	U	367	ug/kg	36.7	367
208-96-8	Acenaphthylene	U	36.7	ug/kg	11.0	36.7
51-28-5	2,4-Dinitrophenol	U	733	ug/kg	139	733
132-64-9	Dibenzofuran	U	367	ug/kg	73.3	367
84-66-2	Diethylphthalate	U	367	ug/kg	73.3	367
86-73-7	Fluorene	U	36.7	ug/kg	11.0	36.7
7005-72-3	4-Chlorophenylphenylether	U	367	ug/kg	73.3	367
534-52-1	2-Methyl-4,6-dinitrophenol	U	367	ug/kg	73.3	367 UJ,SV7c
100-01-6	4-Nitroaniline	U	367	ug/kg	110	367 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	367	ug/kg	73.3	367
122-66-7	Azobenzene	U	367	ug/kg	73.3	367
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	367	ug/kg	73.3	367
118-74-1	Hexachlorobenzene	U	367	ug/kg	73.3	367
85-01-8	Phenanthrene	U	36.7	ug/kg	11.0	36.7
120-12-7	Anthracene	U	36.7	ug/kg	7.33	36.7
84-74-2	Di-n-butylphthalate	U	367	ug/kg	73.3	367
206-44-0	Fluoranthene	U	36.7	ug/kg	11.0	36.7
85-68-7	Butylbenzylphthalate	U	367	ug/kg	73.3	367
56-55-3	Benzo(a)anthracene	U	36.7	ug/kg	11.0	36.7
91-94-1	3,3'-Dichlorobenzidine	U	367	ug/kg	110	367
218-01-9	Chrysene	U	36.7	ug/kg	11.0	36.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	367	ug/kg	73.3	367
117-84-0	Di-n-octylphthalate	U	367	ug/kg	73.3	367
205-99-2	Benzo(b)fluoranthene	U	36.7	ug/kg	11.0	36.7
207-08-9	Benzo(k)fluoranthene	U	36.7	ug/kg	11.0	36.7
50-32-8	Benzo(a)pyrene	U	36.7	ug/kg	11.0	36.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.7	ug/kg	11.0	36.7
53-70-3	Dibenzo(a,h)anthracene	U	36.7	ug/kg	11.0	36.7
191-24-2	Benzo(ghi)perylene	U	36.7	ug/kg	11.0	36.7
120-82-1	1,2,4-Trichlorobenzene	U	367	ug/kg	73.3	367

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	521	ug/kg		J
	Unknown Aldol Condensate	3	349	ug/kg		J

LT 02/03/10

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490001	Date Received: 12/23/2009 10:10	%Moisture: 9.2
	Client: LANL010	Project: LANL01004
Client ID: RE12-10-7288	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 937095	Inst: MSD7.I	Dilution: 1
Run Date: 01/04/2010 13:34	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 12/28/2009 21:32	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s7a0408.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	5.77	346	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	1500	ug/kg	99	NJ
470-40-6	Thujopsene	5.97	244	ug/kg	83	NJ
77-53-2	Cedrol	6.58	1280	ug/kg	94	NJ
	Unknown	6.89	223	ug/kg		J
	Unknown	8.91	288	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	2420	ug/kg	98	NJ
	Unknown	9.49	188	ug/kg		J
	Unknown	10.06	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	234	ug/kg	95	NJ
35060-26-5	D:B-Friedo-18,19-secolup-19-ene, 3,10-ep	13.24	814	ug/kg	86	NJ
83-47-6	.gamma.-Sitosterol	13.74	251	ug/kg	97	NJ

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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	369	ug/kg	73.9	369
108-95-2	Phenol	U	369	ug/kg	73.9	369
95-57-8	2-Chlorophenol	U	369	ug/kg	73.9	369
106-46-7	1,4-Dichlorobenzene	U	369	ug/kg	73.9	369
621-64-7	N-Nitrosodipropylamine	U	369	ug/kg	73.9	369
59-50-7	4-Chloro-3-methylphenol	U	369	ug/kg	73.9	369
83-32-9	Acenaphthene	U	36.9	ug/kg	12.2	36.9
121-14-2	2,4-Dinitrotoluene	U	369	ug/kg	36.9	369
100-02-7	4-Nitrophenol	U	369	ug/kg	122	369
87-86-5	Pentachlorophenol	U	369	ug/kg	92.4	369
129-00-0	Pyrene	U	36.9	ug/kg	11.1	36.9
110-86-1	Pyridine	U	369	ug/kg	73.9	369
62-53-3	Aniline	U	369	ug/kg	111	369 UJ,SV7c
111-44-4	bis(2-Chloroethyl) ether	U	369	ug/kg	73.9	369
541-73-1	1,3-Dichlorobenzene	U	369	ug/kg	73.9	369
100-51-6	Benzyl alcohol	U	369	ug/kg	111	369 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	369	ug/kg	73.9	369
108-60-1	bis(2-Chloroisopropyl)ether	U	369	ug/kg	73.9	369 UJ,SV7c
95-48-7	o-Cresol	U	369	ug/kg	73.9	369
65794-96-9	m,p-Cresols	U	369	ug/kg	111	369 UJ,SV7c
67-72-1	Hexachloroethane	U	369	ug/kg	73.9	369
98-95-3	Nitrobenzene	U	369	ug/kg	73.9	369
78-59-1	Isophorone	U	369	ug/kg	73.9	369
88-75-5	2-Nitrophenol	U	369	ug/kg	73.9	369
105-67-9	2,4-Dimethylphenol	U	369	ug/kg	129	369
111-91-1	bis(2-Chloroethoxy)methane	U	369	ug/kg	73.9	369
120-83-2	2,4-Dichlorophenol	U	369	ug/kg	73.9	369
65-85-0	Benzoic acid	U	739	ug/kg	185	739 UJ,SV7c
91-20-3	Naphthalene	U	36.9	ug/kg	11.1	36.9
106-47-8	4-Chloroaniline	U	369	ug/kg	73.9	369 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	369	ug/kg	73.9	369
91-57-6	2-Methylnaphthalene	U	36.9	ug/kg	7.39	36.9
77-47-4	Hexachlorocyclopentadiene	U	369	ug/kg	73.9	369
88-06-2	2,4,6-Trichlorophenol	U	369	ug/kg	73.9	369
95-95-4	2,4,5-Trichlorophenol	U	369	ug/kg	73.9	369
91-58-7	2-Chloronaphthalene	U	36.9	ug/kg	12.2	36.9
88-74-4	2-Nitroaniline	U	369	ug/kg	73.9	369
<i>o-Nitroaniline</i>						
99-09-2	3-Nitroaniline	U	369	ug/kg	73.9	369 UJ,SV7c

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490003	Date Received: 12/23/2009 10:10	%Moisture: 9.9
Client ID: RE12-10-7289	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/02/2010 20:48	Inst: MSD7.I	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0215.d	Aliquot: 30.04 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	369	ug/kg	73.9	369
606-20-2	2,6-Dinitrotoluene	U	369	ug/kg	36.9	369
208-96-8	Acenaphthylene	U	36.9	ug/kg	11.1	36.9
51-28-5	2,4-Dinitrophenol	U	739	ug/kg	140	739 UJ,SV7c
132-64-9	Dibenzofuran	U	369	ug/kg	73.9	369
84-66-2	Diethylphthalate	U	369	ug/kg	73.9	369
86-73-7	Fluorene	U	36.9	ug/kg	11.1	36.9
7005-72-3	4-Chlorophenylphenylether	U	369	ug/kg	73.9	369
534-52-1	2-Methyl-4,6-dinitrophenol	U	369	ug/kg	73.9	369 UJ,SV7c
100-01-6	4-Nitroaniline	U	369	ug/kg	111	369
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	369	ug/kg	73.9	369
122-66-7	Azobenzene	U	369	ug/kg	73.9	369
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	369	ug/kg	73.9	369
118-74-1	Hexachlorobenzene	U	369	ug/kg	73.9	369
85-01-8	Phenanthrene	U	36.9	ug/kg	11.1	36.9
120-12-7	Anthracene	U	36.9	ug/kg	7.39	36.9
84-74-2	Di-n-butylphthalate	U	369	ug/kg	73.9	369
206-44-0	Fluoranthene	U	36.9	ug/kg	11.1	36.9
85-68-7	Butylbenzylphthalate	U	369	ug/kg	73.9	369
56-55-3	Benzo(a)anthracene	U	36.9	ug/kg	11.1	36.9
91-94-1	3,3'-Dichlorobenzidine	U	369	ug/kg	111	369
218-01-9	Chrysene	U	36.9	ug/kg	11.1	36.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	369	ug/kg	73.9	369
117-84-0	Di-n-octylphthalate	U	369	ug/kg	73.9	369
205-99-2	Benzo(b)fluoranthene	U	36.9	ug/kg	11.1	36.9
207-08-9	Benzo(k)fluoranthene	U	36.9	ug/kg	11.1	36.9
50-32-8	Benzo(a)pyrene	U	36.9	ug/kg	11.1	36.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.9	ug/kg	11.1	36.9
53-70-3	Dibenzo(a,h)anthracene	U	36.9	ug/kg	11.1	36.9
191-24-2	Benzo(ghi)perylene	U	36.9	ug/kg	11.1	36.9
120-82-1	1,2,4-Trichlorobenzene	U	369	ug/kg	73.9	369

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
	Unknown	2.11	213	ug/kg		J
	Unknown Aldol Condensate	3	272	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7289
Batch ID: 937095
Run Date: 01/02/2010 20:48
Prep Date: 12/28/2009 21:32
Data File: s7a0215.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Flt	Qual
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.77	206	ug/kg	91	NJ
4630-07-3	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	5.81	1370	ug/kg	98	NJ
	Unknown	5.97	174	ug/kg		J
77-53-2	Cedrol	6.58	1490	ug/kg	94	NJ
	Unknown	6.89	221	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.9	172	ug/kg	98	NJ
	Unknown	9.01	2230	ug/kg		J
	Unknown	10.05	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	187	ug/kg	95	NJ
	Unknown	13.22	271	ug/kg		J

LT 02/03/10

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490002

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7290
Batch ID: 937095
Run Date: 01/02/2010 20:26
Prep Date: 12/28/2009 21:32
Data File: s7a0214.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	342	ug/kg	68.4	342
108-95-2	Phenol	U	342	ug/kg	68.4	342
95-57-8	2-Chlorophenol	U	342	ug/kg	68.4	342
106-46-7	1,4-Dichlorobenzene	U	342	ug/kg	68.4	342
621-64-7	N-Nitrosodipropylamine	U	342	ug/kg	68.4	342
59-50-7	4-Chloro-3-methylphenol	U	342	ug/kg	68.4	342
83-32-9	Acenaphthene	U	34.2	ug/kg	11.3	34.2
121-14-2	2,4-Dinitrotoluene	U	342	ug/kg	34.2	342
100-02-7	4-Nitrophenol	U	342	ug/kg	113	342
87-86-5	Pentachlorophenol	U	342	ug/kg	85.5	342
129-00-0	Pyrene	U	34.2	ug/kg	10.3	34.2
110-86-1	Pyridine	U	342	ug/kg	68.4	342
62-53-3	Aniline	U	342	ug/kg	103	342 UJ,SV7c
111-44-4	bis(2-Chloroethyl) ether	U	342	ug/kg	68.4	342
541-73-1	1,3-Dichlorobenzene	U	342	ug/kg	68.4	342
100-51-6	Benzyl alcohol	U	342	ug/kg	103	342 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	342	ug/kg	68.4	342
108-60-1	bis(2-Chloroisopropyl)ether	U	342	ug/kg	68.4	342 UJ,SV7c
95-48-7	o-Cresol	U	342	ug/kg	68.4	342
65794-96-9	m,p-Cresols	U	342	ug/kg	103	342 UJ,SV7c
67-72-1	Hexachloroethane	U	342	ug/kg	68.4	342
98-95-3	Nitrobenzene	U	342	ug/kg	68.4	342
78-59-1	Isophorone	U	342	ug/kg	68.4	342
88-75-5	2-Nitrophenol	U	342	ug/kg	68.4	342
105-67-9	2,4-Dimethylphenol	U	342	ug/kg	120	342
111-91-1	bis(2-Chloroethoxy)methane	U	342	ug/kg	68.4	342
120-83-2	2,4-Dichlorophenol	U	342	ug/kg	68.4	342
65-85-0	Benzoic acid	U	684	ug/kg	171	684 UJ,SV7c
91-20-3	Naphthalene	U	34.2	ug/kg	10.3	34.2
106-47-8	4-Chloroaniline	U	342	ug/kg	68.4	342 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	342	ug/kg	68.4	342
91-57-6	2-Methylnaphthalene	U	34.2	ug/kg	6.84	34.2
77-47-4	Hexachlorocyclopentadiene	U	342	ug/kg	68.4	342
88-06-2	2,4,6-Trichlorophenol	U	342	ug/kg	68.4	342
95-95-4	2,4,5-Trichlorophenol	U	342	ug/kg	68.4	342
91-58-7	2-Chloronaphthalene	U	34.2	ug/kg	11.3	34.2
88-74-4	2-Nitroaniline	U	342	ug/kg	68.4	342
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	342	ug/kg	68.4	342 UJ,SV7c

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490002	Date Received: 12/23/2009 10:10	%Moisture: 3.1
Client ID: RE12-10-7290	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/02/2010 20:26	Inst: MSD7.1	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0214.d	Allquot: 30.19 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	342	ug/kg	68.4	342
606-20-2	2,6-Dinitrotoluene	U	342	ug/kg	34.2	342
208-96-8	Acenaphthylene	U	34.2	ug/kg	10.3	34.2
51-28-5	2,4-Dinitrophenol	U	684	ug/kg	130	684 UJ,SV7c
132-64-9	Dibenzofuran	U	342	ug/kg	68.4	342
84-66-2	Diethylphthalate	U	342	ug/kg	68.4	342
86-73-7	Fluorene	U	34.2	ug/kg	10.3	34.2
7005-72-3	4-Chlorophenylphenylether	U	342	ug/kg	68.4	342
534-52-1	2-Methyl-4,6-dinitrophenol	U	342	ug/kg	68.4	342 UJ,SV7c
100-01-6	4-Nitroaniline	U	342	ug/kg	103	342
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	342	ug/kg	68.4	342
122-66-7	Azobenzene	U	342	ug/kg	68.4	342
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	342	ug/kg	68.4	342
118-74-1	Hexachlorobenzene	U	342	ug/kg	68.4	342
85-01-8	Phenanthrene	U	34.2	ug/kg	10.3	34.2
120-12-7	Anthracene	U	34.2	ug/kg	6.84	34.2
84-74-2	Di-n-butylphthalate	U	342	ug/kg	68.4	342
206-44-0	Fluoranthene	U	34.2	ug/kg	10.3	34.2
85-68-7	Butylbenzylphthalate	U	342	ug/kg	68.4	342
56-55-3	Benzo(a)anthracene	U	34.2	ug/kg	10.3	34.2
91-94-1	3,3'-Dichlorobenzidine	U	342	ug/kg	103	342
218-01-9	Chrysene	U	34.2	ug/kg	10.3	34.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	342	ug/kg	68.4	342
117-84-0	Di-n-octylphthalate	U	342	ug/kg	68.4	342
205-99-2	Benzo(b)fluoranthene	U	34.2	ug/kg	10.3	34.2
207-08-9	Benzo(k)fluoranthene	U	34.2	ug/kg	10.3	34.2
50-32-8	Benzo(a)pyrene	U	34.2	ug/kg	10.3	34.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.2	ug/kg	10.3	34.2
53-70-3	Dibenzo(a,h)anthracene	U	34.2	ug/kg	10.3	34.2
191-24-2	Benzo(ghi)perylene	U	34.2	ug/kg	10.3	34.2
120-82-1	1,2,4-Trichlorobenzene	U	342	ug/kg	68.4	342

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.12	171	ug/kg		J
	Unknown Aldol Condensate	3.01	194	ug/kg		J

LT 02/03/10

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490002	Date Received: 12/23/2009 10:10	%Moisture: 3.1
Client ID: RE12-10-7290	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/02/2010 20:26	Inst: MSD7.I	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0214.d	Aliquot: 30.19 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary			Estimated			
CAS No.	Tentatively Identified Compound (TIC)	RT		Units	Flt	Qual
5131-66-8	2-Propanol, 1-butoxy-	3.51	219	ug/kg	90	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	358	ug/kg	99	NJ
77-53-2	Cedrol	6.58	359	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	535	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	10.39	161	ug/kg	95	NJ

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	363	ug/kg	72.5	363
108-95-2	Phenol	U	363	ug/kg	72.5	363
95-57-8	2-Chlorophenol	U	363	ug/kg	72.5	363
106-46-7	1,4-Dichlorobenzene	U	363	ug/kg	72.5	363
621-64-7	N-Nitrosodipropylamine	U	363	ug/kg	72.5	363
59-50-7	4-Chloro-3-methylphenol	U	363	ug/kg	72.5	363
83-32-9	Acenaphthene	U	36.3	ug/kg	12.0	36.3
121-14-2	2,4-Dinitrotoluene	U	363	ug/kg	36.3	363
100-02-7	4-Nitrophenol	U	363	ug/kg	120	363
87-86-5	Pentachlorophenol	U	363	ug/kg	90.7	363
129-00-0	Pyrene	U	36.3	ug/kg	10.9	36.3
110-86-1	Pyridine	U	363	ug/kg	72.5	363
62-53-3	Aniline	U	363	ug/kg	109	363
111-44-4	bis(2-Chloroethyl) ether	U	363	ug/kg	72.5	363
541-73-1	1,3-Dichlorobenzene	U	363	ug/kg	72.5	363
100-51-6	Benzyl alcohol	U	363	ug/kg	109	363 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	363	ug/kg	72.5	363
108-60-1	bis(2-Chloroisopropyl) ether	U	363	ug/kg	72.5	363 UJ,SV7c
95-48-7	o-Cresol	U	363	ug/kg	72.5	363
65794-96-9	m,p-Cresols	U	363	ug/kg	109	363
67-72-1	Hexachloroethane	U	363	ug/kg	72.5	363
98-95-3	Nitrobenzene	U	363	ug/kg	72.5	363
78-59-1	Isophorone	U	363	ug/kg	72.5	363
88-75-5	2-Nitrophenol	U	363	ug/kg	72.5	363
105-67-9	2,4-Dimethylphenol	U	363	ug/kg	127	363
111-91-1	bis(2-Chloroethoxy)methane	U	363	ug/kg	72.5	363
120-83-2	2,4-Dichlorophenol	U	363	ug/kg	72.5	363
65-85-0	Benzoic acid	U	725	ug/kg	181	725
91-20-3	Naphthalene	U	36.3	ug/kg	10.9	36.3
106-47-8	4-Chloroaniline	U	363	ug/kg	72.5	363 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	363	ug/kg	72.5	363
91-57-6	2-Methylnaphthalene	U	36.3	ug/kg	7.25	36.3
77-47-4	Hexachlorocyclopentadiene	U	363	ug/kg	72.5	363
88-06-2	2,4,6-Trichlorophenol	U	363	ug/kg	72.5	363
95-95-4	2,4,5-Trichlorophenol	U	363	ug/kg	72.5	363
91-58-7	2-Chloronaphthalene	U	36.3	ug/kg	12.0	36.3
88-74-4	2-Nitroaniline	U	363	ug/kg	72.5	363
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	363	ug/kg	72.5	363 UJ,SV7c

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	363	ug/kg	72.5	363
606-20-2	2,6-Dinitrotoluene	U	363	ug/kg	36.3	363
208-96-8	Acenaphthylene	U	36.3	ug/kg	10.9	36.3
51-28-5	2,4-Dinitrophenol	U	725	ug/kg	138	725
132-64-9	Dibenzofuran	U	363	ug/kg	72.5	363
84-66-2	Diethylphthalate	U	363	ug/kg	72.5	363
86-73-7	Fluorene	U	36.3	ug/kg	10.9	36.3
7005-72-3	4-Chlorophenylphenylether	U	363	ug/kg	72.5	363
534-52-1	2-Methyl-4,6-dinitrophenol	U	363	ug/kg	72.5	363 UJ,SV7c
100-01-6	4-Nitroaniline	U	363	ug/kg	109	363 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	363	ug/kg	72.5	363
122-66-7	Azobenzene	U	363	ug/kg	72.5	363
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	363	ug/kg	72.5	363
118-74-1	Hexachlorobenzene	U	363	ug/kg	72.5	363
85-01-8	Phenanthrene	U	36.3	ug/kg	10.9	36.3
120-12-7	Anthracene	U	36.3	ug/kg	7.25	36.3
84-74-2	Di-n-butylphthalate	U	363	ug/kg	72.5	363
206-44-0	Fluoranthene	U	36.3	ug/kg	10.9	36.3
85-68-7	Butylbenzylphthalate	U	363	ug/kg	72.5	363
56-55-3	Benzo(a)anthracene	U	36.3	ug/kg	10.9	36.3
91-94-1	3,3'-Dichlorobenzidine	U	363	ug/kg	109	363
218-01-9	Chrysene	U	36.3	ug/kg	10.9	36.3
117-81-7	bis(2-Ethylhexyl)phthalate	U	363	ug/kg	72.5	363
117-84-0	Di-n-octylphthalate	U	363	ug/kg	72.5	363
205-99-2	Benzo(b)fluoranthene	J	36.1	ug/kg	10.9	36.3
207-08-9	Benzo(k)fluoranthene	U	36.3	ug/kg	10.9	36.3
50-32-8	Benzo(a)pyrene	J	12.6	ug/kg	10.9	36.3
193-39-5	Indeno(1,2,3-cd)pyrene	J	16.3	ug/kg	10.9	36.3
53-70-3	Dibenzo(a,h)anthracene	U	36.3	ug/kg	10.9	36.3
191-24-2	Benzo(ghi)perylene	J	18.2	ug/kg	10.9	36.3
120-82-1	1,2,4-Trichlorobenzene	U	363	ug/kg	72.5	363

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	376	ug/kg		J
	Unknown Aldol Condensate	3	369	ug/kg		J

LT 02/03/10

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009

Client ID: RE12-10-7291
Batch ID: 937095
Run Date: 01/04/2010 14:39
Prep Date: 12/28/2009 21:32
Data File: s7a0411.d

Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Allquot: 30.02 g
Column: J&W DB-5MS

Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
Tentatively Identified Compound Summary							
CAS No.	Tentatively Identified Compound (TIC)		RT	Estimated	Units	Fit	Qual
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa		9.02	455	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-		10.4	246	ug/kg	95	NJ
	Unknown		13.24	1340	ug/kg		J
	Unknown		13.74	232	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490005

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352 UJ,SV7c
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.5	352 UJ,SV7c
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352 UJ,SV7c
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705 UJ,SV7c
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.5	352 UJ,SV7c

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490005	Date Received: 12/23/2009 10:10	%Moisture: 6
Client ID: RE12-10-7292	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/02/2010 21:31	Inst: MSD7.I	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0217.d	Aliquot: 30.19 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	352	ug/kg	70.5	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	705	ug/kg	134	705 UJ,SV7c
132-64-9	Dibenzofuran	U	352	ug/kg	70.5	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.5	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352 UJ,SV7c
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	352	ug/kg	70.5	352
122-66-7	Azobenzene	U	352	ug/kg	70.5	352
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.5	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.05	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.5	352
206-44-0	Fluoranthene	U	35.2	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.5	352
56-55-3	Benzo(a)anthracene	J	23.1	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	J	27.0	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.5	352
205-99-2	Benzo(b)fluoranthene	J	26.0	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	J	18.7	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3	250	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	159	ug/kg	99	NJ

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490005	Date Received: 12/23/2009 10:10	%Moisture: 6
	Client: LANL010	Project: LANL01004
Client ID: RE12-10-7292	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 937095	Inst: MSD7.I	Dilution: 1
Run Date: 01/02/2010 21:31	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 12/28/2009 21:32	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: s7a0217.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
77-53-2	Cedrol	6.57	254	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	523	ug/kg	97	NJ
	Unknown	9.72	237	ug/kg		J
	Unknown	10.05	155	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	202	ug/kg	95	NJ
	Unknown	13.22	294	ug/kg		J

LT 02/03/10

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490006

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.5
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
62-75-9	N-Methyl-N-nitrosomethylamine	U	340	ug/kg	68.0	340
108-95-2	Phenol	U	340	ug/kg	68.0	340
95-57-8	2-Chlorophenol	U	340	ug/kg	68.0	340
106-46-7	1,4-Dichlorobenzene	U	340	ug/kg	68.0	340
621-64-7	N-Nitrosodipropylamine	U	340	ug/kg	68.0	340
59-50-7	4-Chloro-3-methylphenol	U	340	ug/kg	68.0	340
83-32-9	Acenaphthene	U	34.0	ug/kg	11.2	34.0
121-14-2	2,4-Dinitrotoluene	U	340	ug/kg	34.0	340
100-02-7	4-Nitrophenol	U	340	ug/kg	112	340
87-86-5	Pentachlorophenol	U	340	ug/kg	85.0	340
129-00-0	Pyrene	U	34.0	ug/kg	10.2	34.0
110-86-1	Pyridine	U	340	ug/kg	68.0	340
62-53-3	Aniline	U	340	ug/kg	102	340 UJ,SV7c
111-44-4	bis(2-Chloroethyl) ether	U	340	ug/kg	68.0	340
541-73-1	1,3-Dichlorobenzene	U	340	ug/kg	68.0	340
100-51-6	Benzyl alcohol	U	340	ug/kg	102	340 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	340	ug/kg	68.0	340
108-60-1	bis(2-Chloroisopropyl) ether	U	340	ug/kg	68.0	340 UJ,SV7c
95-48-7	o-Cresol	U	340	ug/kg	68.0	340
65794-96-9	m,p-Cresols	U	340	ug/kg	102	340 UJ,SV7c
67-72-1	Hexachloroethane	U	340	ug/kg	68.0	340
98-95-3	Nitrobenzene	U	340	ug/kg	68.0	340
78-59-1	Isophorone	U	340	ug/kg	68.0	340
88-75-5	2-Nitrophenol	U	340	ug/kg	68.0	340
105-67-9	2,4-Dimethylphenol	U	340	ug/kg	119	340
111-91-1	bis(2-Chloroethoxy)methane	U	340	ug/kg	68.0	340
120-83-2	2,4-Dichlorophenol	U	340	ug/kg	68.0	340
65-85-0	Benzoic acid	U	680	ug/kg	170	680 UJ,SV7c
91-20-3	Naphthalene	U	34.0	ug/kg	10.2	34.0
106-47-8	4-Chloroaniline	U	340	ug/kg	68.0	340 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	340	ug/kg	68.0	340
91-57-6	2-Methylnaphthalene	U	34.0	ug/kg	6.80	34.0
77-47-4	Hexachlorocyclopentadiene	U	340	ug/kg	68.0	340
88-06-2	2,4,6-Trichlorophenol	U	340	ug/kg	68.0	340
95-95-4	2,4,5-Trichlorophenol	U	340	ug/kg	68.0	340
91-58-7	2-Chloronaphthalene	U	34.0	ug/kg	11.2	34.0
88-74-4	2-Nitroaniline	U	340	ug/kg	68.0	340
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	340	ug/kg	68.0	340 UJ,SV7c

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490006	Date Received: 12/23/2009 10:10	%Moisture: 2.5
Client ID: RE12-10-7293	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/02/2010 21:53	Inst: MSD7.I	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0218.d	Aliquot: 30.17 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	340	ug/kg	68.0	340
606-20-2	2,6-Dinitrotoluene	U	340	ug/kg	34.0	340
208-96-8	Acenaphthylene	U	34.0	ug/kg	10.2	34.0
51-28-5	2,4-Dinitrophenol	U	680	ug/kg	129	680 UJ,SV7c
132-64-9	Dibenzofuran	U	340	ug/kg	68.0	340
84-66-2	Diethylphthalate	U	340	ug/kg	68.0	340
86-73-7	Fluorene	U	34.0	ug/kg	10.2	34.0
7005-72-3	4-Chlorophenylphenylether	U	340	ug/kg	68.0	340
534-52-1	2-Methyl-4,6-dinitrophenol	U	340	ug/kg	68.0	340 UJ,SV7c
100-01-6	4-Nitroaniline	U	340	ug/kg	102	340
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	340	ug/kg	68.0	340
122-66-7	Azobenzene	U	340	ug/kg	68.0	340
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	340	ug/kg	68.0	340
118-74-1	Hexachlorobenzene	U	340	ug/kg	68.0	340
85-01-8	Phenanthrene	U	34.0	ug/kg	10.2	34.0
120-12-7	Anthracene	U	34.0	ug/kg	6.80	34.0
84-74-2	Di-n-butylphthalate	U	340	ug/kg	68.0	340
206-44-0	Fluoranthene	U	34.0	ug/kg	10.2	34.0
85-68-7	Butylbenzylphthalate	U	340	ug/kg	68.0	340
56-55-3	Benzo(a)anthracene	U	34.0	ug/kg	10.2	34.0
91-94-1	3,3'-Dichlorobenzidine	U	340	ug/kg	102	340
218-01-9	Chrysene	U	34.0	ug/kg	10.2	34.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	ug/kg	68.0	340
117-84-0	Di-n-octylphthalate	U	340	ug/kg	68.0	340
205-99-2	Benzo(b)fluoranthene	U	34.0	ug/kg	10.2	34.0
207-08-9	Benzo(k)fluoranthene	U	34.0	ug/kg	10.2	34.0
50-32-8	Benzo(a)pyrene	U	34.0	ug/kg	10.2	34.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.0	ug/kg	10.2	34.0
53-70-3	Dibenzo(a,h)anthracene	U	34.0	ug/kg	10.2	34.0
191-24-2	Benzo(ghi)perylene	U	34.0	ug/kg	10.2	34.0
120-82-1	1,2,4-Trichlorobenzene	U	340	ug/kg	68.0	340

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	184	ug/kg		J
	Unknown	2.14	162	ug/kg		J

LT 02/03/10

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

SDG Number: 10-1036
Lab Sample ID: 243490006

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10

Matrix: R
%Moisture: 2.5
Project: LANL01004
SOP Ref: GL-OA-E-009

Client ID: RE12-10-7293
Batch ID: 937095
Run Date: 01/02/2010 21:53
Prep Date: 12/28/2009 21:32
Data File: s7a0218.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MS

Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	
Tentatively Identified Compound Summary							
CAS No.	Tentatively Identified Compound (TIC)		RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate		3	245	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa		9.02	191	ug/kg	98	NJ
301-02-0	9-Octadecenamide, (Z)-		10.39	154	ug/kg	95	NJ

LT 02/03/10

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

SDG Number: 10-1036
Lab Sample ID: 243490007

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
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	362	ug/kg	72.4	362
108-95-2	Phenol	U	362	ug/kg	72.4	362
95-57-8	2-Chlorophenol	U	362	ug/kg	72.4	362
106-46-7	1,4-Dichlorobenzene	U	362	ug/kg	72.4	362
621-64-7	N-Nitrosodipropylamine	U	362	ug/kg	72.4	362
59-50-7	4-Chloro-3-methylphenol	U	362	ug/kg	72.4	362
83-32-9	Acenaphthene	U	36.2	ug/kg	11.9	36.2
121-14-2	2,4-Dinitrotoluene	U	362	ug/kg	36.2	362
100-02-7	4-Nitrophenol	U	362	ug/kg	119	362
87-86-5	Pentachlorophenol	U	362	ug/kg	90.5	362
129-00-0	Pyrene	U	36.2	ug/kg	10.9	36.2
110-86-1	Pyridine	U	362	ug/kg	72.4	362
62-53-3	Aniline	U	362	ug/kg	109	362
111-44-4	bis(2-Chloroethyl) ether	U	362	ug/kg	72.4	362
541-73-1	1,3-Dichlorobenzene	U	362	ug/kg	72.4	362
100-51-6	Benzyl alcohol	U	362	ug/kg	109	362 UJ,SV7c
95-50-1	1,2-Dichlorobenzene	U	362	ug/kg	72.4	362
108-60-1	bis(2-Chloroisopropyl) ether	U	362	ug/kg	72.4	362 UJ,SV7c
95-48-7	o-Cresol	U	362	ug/kg	72.4	362
65794-96-9	m,p-Cresols	U	362	ug/kg	109	362
67-72-1	Hexachloroethane	U	362	ug/kg	72.4	362
98-95-3	Nitrobenzene	U	362	ug/kg	72.4	362
78-59-1	Isophorone	U	362	ug/kg	72.4	362
88-75-5	2-Nitrophenol	U	362	ug/kg	72.4	362
105-67-9	2,4-Dimethylphenol	U	362	ug/kg	127	362
111-91-1	bis(2-Chloroethoxy)methane	U	362	ug/kg	72.4	362
120-83-2	2,4-Dichlorophenol	U	362	ug/kg	72.4	362
65-85-0	Benzoic acid	U	724	ug/kg	181	724
91-20-3	Naphthalene	U	36.2	ug/kg	10.9	36.2
106-47-8	4-Chloroaniline	U	362	ug/kg	72.4	362 UJ,SV7c
87-68-3	Hexachlorobutadiene	U	362	ug/kg	72.4	362
91-57-6	2-Methylnaphthalene	U	36.2	ug/kg	7.24	36.2
77-47-4	Hexachlorocyclopentadiene	U	362	ug/kg	72.4	362
88-06-2	2,4,6-Trichlorophenol	U	362	ug/kg	72.4	362
95-95-4	2,4,5-Trichlorophenol	U	362	ug/kg	72.4	362
91-58-7	2-Chloronaphthalene	U	36.2	ug/kg	11.9	36.2
88-74-4	2-Nitroaniline	U	362	ug/kg	72.4	362
<i>o-Nitroaniline</i>						
99-09-2	3-Nitroaniline	U	362	ug/kg	72.4	362 UJ,SV7c

LT 02/03/10

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490007	Date Received: 12/23/2009 10:10	%Moisture: 8
	Client: LANL010	Project: LANL01004
Client ID: RE12-10-7296	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 937095	Inst: MSD7.I	Dilution: 1
Run Date: 01/04/2010 15:01	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 12/28/2009 21:32	Aliquot: 30.03 g	Final Volume: 1 mL
Data File: s7a0412.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
<i>m-Nitroaniline</i>						
131-11-3	Dimethylphthalate	U	362	ug/kg	72.4	362
606-20-2	2,6-Dinitrotoluene	U	362	ug/kg	36.2	362
208-96-8	Acenaphthylene	U	36.2	ug/kg	10.9	36.2
51-28-5	2,4-Dinitrophenol	U	724	ug/kg	138	724
132-64-9	Dibenzofuran	U	362	ug/kg	72.4	362
84-66-2	Diethylphthalate	U	362	ug/kg	72.4	362
86-73-7	Fluorene	U	36.2	ug/kg	10.9	36.2
7005-72-3	4-Chlorophenylphenylether	U	362	ug/kg	72.4	362
534-52-1	2-Methyl-4,6-dinitrophenol	U	362	ug/kg	72.4	362 UJ,SV7c
100-01-6	4-Nitroaniline	U	362	ug/kg	109	362 UJ,SV7c
<i>p-Nitroaniline</i>						
122-39-4	Diphenylamine	U	362	ug/kg	72.4	362
122-66-7	Azobenzene	U	362	ug/kg	72.4	362
<i>1,2-Diphenylhydrazine</i>						
101-55-3	4-Bromophenylphenylether	U	362	ug/kg	72.4	362
118-74-1	Hexachlorobenzene	U	362	ug/kg	72.4	362
85-01-8	Phenanthrene	U	36.2	ug/kg	10.9	36.2
120-12-7	Anthracene	U	36.2	ug/kg	7.24	36.2
84-74-2	Di-n-butylphthalate	U	362	ug/kg	72.4	362
206-44-0	Fluoranthene	U	36.2	ug/kg	10.9	36.2
85-68-7	Butylbenzylphthalate	U	362	ug/kg	72.4	362
56-55-3	Benzo(a)anthracene	U	36.2	ug/kg	10.9	36.2
91-94-1	3,3'-Dichlorobenzidine	U	362	ug/kg	109	362
218-01-9	Chrysene	U	36.2	ug/kg	10.9	36.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	362	ug/kg	72.4	362
117-84-0	Di-n-octylphthalate	U	362	ug/kg	72.4	362
205-99-2	Benzo(b)fluoranthene	J	25.8	ug/kg	10.9	36.2
207-08-9	Benzo(k)fluoranthene	U	36.2	ug/kg	10.9	36.2
50-32-8	Benzo(a)pyrene	J	11.5	ug/kg	10.9	36.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	14.2	ug/kg	10.9	36.2
53-70-3	Dibenzo(a,h)anthracene	U	36.2	ug/kg	10.9	36.2
191-24-2	Benzo(ghi)perylene	J	16.4	ug/kg	10.9	36.2
120-82-1	1,2,4-Trichlorobenzene	U	362	ug/kg	72.4	362

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	402	ug/kg		J
	Unknown Aldol Condensate	3	395	ug/kg		J

LT 02/03/10

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490007	Date Received: 12/23/2009 10:10	%Moisture: 8
Client ID: RE12-10-7296	Client: LANL010	Project: LANL01004
Batch ID: 937095	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Run Date: 01/04/2010 15:01	Inst: MSD7.I	Dilution: 1
Prep Date: 12/28/2009 21:32	Analyst: JMB3	Inj. Vol: .5 uL
Data File: s7a0412.d	Aliquot: 30.03 g	Final Volume: 1 mL
	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
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Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	161	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	552	ug/kg	98	NJ
	Unknown	9.75	322	ug/kg		J
	Unknown	10.05	162	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	228	ug/kg	95	NJ
	Unknown	13.25	1800	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	13.74	288	ug/kg	92	NJ

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1036 VALIDATION DATE: 02/03/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

- The swipe LCS %R for tetryl was <10%. The associated sample results were NDs and, thus, were qualified R,HE12. The swipe LCS %R for 2,4,6-trinitrotoluene was < the laboratory's LAL but ≥10%. The associated sample results were NDs and, thus, were qualified UJ,HE12a. The soil LCS %Rs for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene were < the laboratory's LAL but ≥10%. The associated sample results were NDs and, thus, were qualified UJ,HE12a. The soil LCS %R for TATB was > the laboratory's UAL. The associated sample results were NDs and, thus, were not qualified.
- The swipe samples were extracted >1X but ≤2X past the method specified HT. The associated sample results were NDs and, thus, were qualified UJ,HE9.
- The %D for PETN was >20% but ≤40% with negative bias for the CCV associated with the swipe samples. The associated sample results were NDs and, thus, were qualified UJ,HE7c. The %D for tetryl was >20% but ≤40% with negative bias for the CCV associated with all soil samples except sample RE12-10-7296 and the %D for 2,6-diamino-4-nitrotoluene was >20% but ≤40% with negative bias for the CCV associated with all soil samples. The associated sample results were NDs and, thus, were qualified UJ,HE7c. The %Ds for PETN were >20% with positive bias for the CCVs associated with all soil samples. The associated sample results were NDs and, thus, were not qualified.
- It should be noted that the raw ICAL data from the instrument used for the secondary HE analysis were not reported in the data package. Thus, the surrogate RT criteria could not be evaluated. No sample data were qualified as a result.

5. An MS or an MSD were not performed for the swipe samples. An LCS and an LCSD were performed and the RPD for HMX and tetryl did not meet laboratory acceptance criteria. No sample results were qualified based on professional judgment. The soil MS %R for TATB was > the laboratory's UAL. The associated sample results were NDs and, thus, were not qualified. The soil MS/MSD RPD for TATB was > the laboratory's UAL. The associated sample results were NDs and, thus, were qualified UJ,HE12g.

Reviewed by: ETM

Level: 1

Date: 2/5/10


VALIDATOR'S SIGNATURE: 

DATE: 02/03/10


Form 5122-1, Revision 0.0

LOS ALAMOS


Environmental Restoration Project

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


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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is ≤ 5 times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5x$.	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input checked="" type="checkbox"/>	<input 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: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Molsture: 2.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108139a

Date Analyzed: 11-JAN-10 13:07

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050100.wiff

Date Analyzed: 06-JAN-10 16:31

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument	X	<u>Concentrated Extract Volume</u>	X	Dilution
Value		<u>Sample Amount</u>		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7290

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108142a

Date Analyzed: 11-JAN-10 14:36

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	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: RE12-10-7290

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050103.wiff

Date Analyzed: 06-JAN-10 17:18

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	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: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108143a

Date Analyzed: 11-JAN-10 15:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	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: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050104.wiff

Date Analyzed: 06-JAN-10 17:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	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: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 236888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108144a

Date Analyzed: 11-JAN-10 15:35

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050105.wiff

Date Analyzed: 06-JAN-10 17:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	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: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108145a

Date Analyzed: 11-JAN-10 16:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	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: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050106.wiff

Date Analyzed: 06-JAN-10 18:05

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	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: RE12-10-7293

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108146a

Date Analyzed: 11-JAN-10 16:34

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE7c	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: RE12-10-7293

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050107.wiff

Date Analyzed: 06-JAN-10 18:21

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		<u>Sample Amount</u>		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108094a

Date Analyzed: 10-JAN-10 14:59

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: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050111.wiff

Date Analyzed: 06-JAN-10 19:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJ,HE12g	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE12a	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: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117025a

Date Analyzed: 18-JAN-10 05:58

Units: ug/Filter

Cas No.	Compound		Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	UJ,HE9	0.4	Uh
121-14-2	2,4-Dinitrotoluene		0.4	Uh
121-82-4	RDX		0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene		0.4	Uh
2691-41-0	HMX		0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	↓	0.6	Uh
479-45-8	Tetryl	R,HE12	0.4	Uh
606-20-2	2,6-Dinitrotoluene	UJ,HE9	0.4	Uh
78-11-5	PETN		2.92	Uh
88-72-2	o-Nitrotoluene		0.4	Uh
98-95-3	Nitrobenzene		0.6	Uh
99-08-1	m-Nitrotoluene		0.4	Uh
99-35-4	1,3,5-Trinitrobenzene		0.4	Uh
99-65-0	m-Dinitrobenzene		0.6	Uh
99-99-0	p-Nitrotoluene	↓	0.4	Uh

*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: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080045.wiff

Date Analyzed: 09-JAN-10 02:05

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate	1.0	Uh

*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: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117026a

Date Analyzed: 18-JAN-10 06:28

Units: ug/Filter

Cas No.	Compound		Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	UJ,HE9	0.4	Uh
121-14-2	2,4-Dinitrotoluene		0.4	Uh
121-82-4	RDX		0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene		0.4	Uh
2691-41-0	HMX		0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	↓	0.6	Uh
479-45-8	Tetryl	R,HE12	0.4	Uh
606-20-2	2,6-Dinitrotoluene	UJ,HE9	0.4	Uh
78-11-5	PETN		2.92	Uh
88-72-2	o-Nitrotoluene		0.4	Uh
98-95-3	Nitrobenzene		0.6	Uh
99-08-1	m-Nitrotoluene		0.4	Uh
99-35-4	1,3,5-Trinitrobenzene		0.4	Uh
99-65-0	m-Dinitrobenzene		0.6	Uh
99-99-0	p-Nitrotoluene	↓	0.4	Uh

*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: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080046.wiff

Date Analyzed: 09-JAN-10 02:21

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB UJHE9	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate ▼	1.0	Uh

*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: 10-1036 VALIDATION DATE: 02/04/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

1. The MS/MSD for batch 937093 was performed on a sample from another LANL RN and the raw data for the parent sample were not present in the data package. No sample data were qualified as a result.


Reviewed by: ETM

Level: 1


Date: 2/5/10

VALIDATOR'S SIGNATURE: L. Thal

DATE: 02/04/10

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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X.	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$. Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

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

5116-2

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

Records Use only



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

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

5116-2

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

Records Use only



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

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.2
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	3.66	ug/kg	1.22	3.66	1
11104-28-2	Aroclor-1221	U	3.66	ug/kg	1.22	3.66	1
11141-16-5	Aroclor-1232	U	3.66	ug/kg	1.22	3.66	1
53469-21-9	Aroclor-1242	U	3.66	ug/kg	1.22	3.66	1
12672-29-6	Aroclor-1248	U	3.66	ug/kg	1.22	3.66	1
11097-69-1	Aroclor-1254	U	3.66	ug/kg	1.22	3.66	1
11096-82-5	Aroclor-1260	U	3.66	ug/kg	1.22	3.66	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490003

Client ID: RE12-10-7289
Batch ID: 937093
Run Date: 12/29/2009 11:06
Prep Date: 12/28/2009 20:43
Data File: 021f2101.d
021b2101.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.9
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	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

LT 02/04/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1036
Lab Sample ID: 243490002Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.14 g
Column: 1 CLP1
2 CLP2Matrix: R
% Moisture: 3.1
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

LT 02/04/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1036
Lab Sample ID: 243490007Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 8
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	3.62	ug/kg	1.21	3.62	1
11104-28-2	Aroclor-1221	U	3.62	ug/kg	1.21	3.62	1
11141-16-5	Aroclor-1232	U	3.62	ug/kg	1.21	3.62	1
53469-21-9	Aroclor-1242	U	3.62	ug/kg	1.21	3.62	1
12672-29-6	Aroclor-1248	U	3.62	ug/kg	1.21	3.62	1
11097-69-1	Aroclor-1254	U	3.62	ug/kg	1.21	3.62	1
11096-82-5	Aroclor-1260	U	3.62	ug/kg	1.21	3.62	1

LT 02/04/10

Tuesday, December 22, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1036

LOS ALAMOS

REQUEST NUMBER: 10-1036

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/21/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

243490, 243491 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7288	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7290	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7289	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7291	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7292	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7293	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7296	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7867	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP
RE12-10-7868	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP

Relinquished By:	Date	Time	Received By:	Date	Time
<i>[Signature]</i>	12/22/09	1400	<i>[Signature]</i>	12-23-09	10:10
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		

REQUEST NUMBER: 10-1036

Tuesday, December 22, 2009

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8270C	1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
	SW-846:8321A_MOD	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	
		1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7887	SWP	12/18/2009	
		1	RE12-10-7888	SWP	12/18/2009	

Final Page of REQUEST NUMBER 10-1036

Tuesday, December 22, 2009

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 12/22/2009

TURNAROUND/REPORT DUE: 1/21/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2

REQUEST NUMBER: 10-1036

These Samples are on:

LANL Request Number: 10-1036

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
	SW-846:8270C	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	



January 18, 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 Orders: 243490 243491
SDG: 10-1036

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on December 23, 2009, and analyzed for Explosives by LCMSMS, GC Semivolatile PCB and GC/MS Semivolatile. 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: 10-1036
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 243490 and 243491
SDG: 10-1036

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Standards Data.....	1023
Quality Control Data	1132
Miscellaneous Data	1173

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 243490 and 243491
SDG # : 10-1036**

January 18, 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 December 23, 2009 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>
243490001	RE12-10-7288
243490002	RE12-10-7290
243490003	RE12-10-7289
243490004	RE12-10-7291
243490005	RE12-10-7292
243490006	RE12-10-7293
243490007	RE12-10-7296
243491001	RE12-10-7867
243491002	RE12-10-7868

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 and GC/MS Semivolatile.

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 18 January 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

Tuesday, December 22, 2009

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1036

LOS ALAMOS

REQUEST NUMBER: 10-1036

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 1/21/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

243490, 243491 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-7288	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7290	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7289	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7291	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7292	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7293	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-7296	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-7867	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP
RE12-10-7868	1	8 IN RESEALABLE POLY BAG	SWP-NMED-Exp	None	SWP

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

12/22/09 1400

Printed Name

Signature

Patricia Dorent P. Dorent

12-23-09

10:10

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Tuesday, December 22, 2009

REQUEST NUMBER: 10-1036

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8270C	1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
	SW-846:8321A_MOD	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	
		1	RE12-10-7293	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
		1	RE12-10-7867	SWP	12/18/2009	
		1	RE12-10-7868	SWP	12/18/2009	

Final Page of REQUEST NUMBER 10-1036

Tuesday, December 22, 2009
LOS ALAMOS
 NATIONAL LABORATORY

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

Please analyse the enclosed samples
 according to the schedule indicated:

SHIP DATE: 12/22/2009
 TURNAROUND/REPORT DUE: 1/21/2010
 TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
 LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
 Signature:

These Samples are on:
 LANL Request Number: 10-1036
 Per Agreement Number: 126310011
 Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7296	R	12/18/2009	
	SW-846:8270C	1	RE12-10-7288	R	12/18/2009	
		1	RE12-10-7289	R	12/18/2009	
		1	RE12-10-7290	R	12/18/2009	
		1	RE12-10-7291	R	12/18/2009	
		1	RE12-10-7292	R	12/18/2009	

SAMPLE RECEIPT & REVIEW FORM

Client:LANL		SDG/ARCO/Work Order:10-1036	
Received By:Patricia Dover-Dent		Date Received:December 23, 2009	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further
COC/Samples marked as radioactive?		X	Maximum Counts Observed*:40CPM
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (0 < 6 deg. C)?	X			Preservation Method: ice bags BLUE ICE dry ice NONE other (describe) 1-6,13,15,16
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH. If Preservative added, Lot#
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No Time on Chain of Custody
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments:FED EX #'S

7209 7849 3479 1C	7209 7849 3550 4C	
7209 7849 3446 2C	7209 7849 3538 5C	
7209 7849 3457 2C	7209 7849 3516 6C	RADIOACTIVE SAMPLES
7209 7849 3527 2C	7209 7849 3413 13C	
7209 7849 3549 2C	7209 7849 3424 15C	
7209 7849 3480 2C	7209 7849 3435 16C	
7209 7849 3490 3C		
7209 7849 3505 4C		

PM (or PMA) review: Initials GRT

Date 12/28/09

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

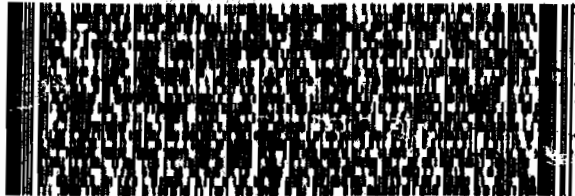
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ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2434

BILL: SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843)556-8171
REF: 68010AMR3A05529E00

UNIT ID: 156148-434 NRT V3 09-09

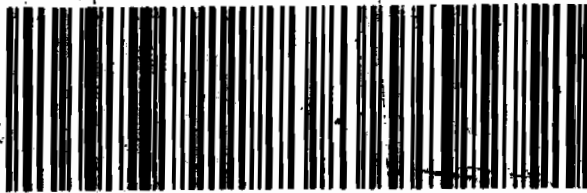


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PRIORITY OVERNIGHT

TRKH 7209 7849 3479
0261

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SC-US
CHS



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

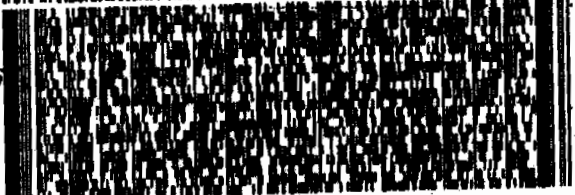
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BILL: SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843)556-8171
REF: 68010AMR1A015AGWNO

UNIT ID: 156148-434 NRT V3 09-09



WED - 23DEC A1
PRIORITY OVERNIGHT

TRKH 7209 7849 3457
0263

MatrN 7209 7849 3435 0201

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SC-US
CHS

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

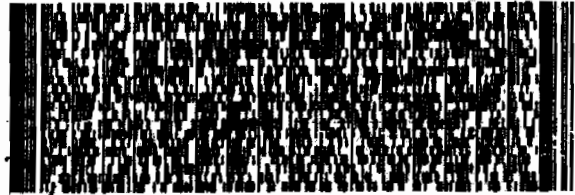
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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407
(843)556-8171
REF: 68010AMR1A015AGWNO

UNIT ID: 156148-434 NRT V3 09-09



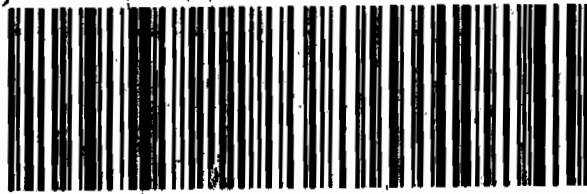
WED - 23DEC A1
PRIORITY OVERNIGHT

2 of 3
MPSH 7209 7849 3446
0263

MatrN 7209 7849 3435 0201

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

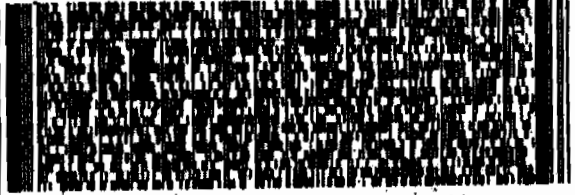
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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843)556-8171
REF: 68010AMR2A054196DO

UNIT ID: 156148-434 NRT V3 09-09



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PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

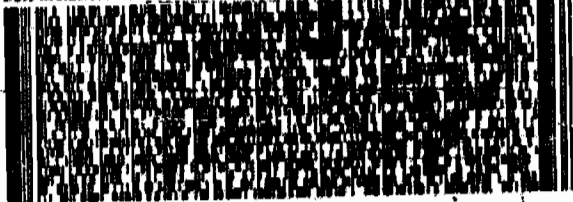
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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407
(843)556-8171
REF: 68010AMR2A054196D0

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MPS# 7209 7849 3549
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Matr# 7209 7849 3527 0201

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22DEC09
ACTNGT: 52.0 LB MAN
CAD: 0014176/CAFE2434

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CHARLESTON SC 29407
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Matr# 7209 7849 3480 0201

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

LOS ALAMOS, NM 87545
UNITED STATES US

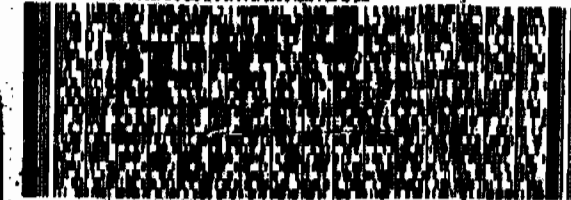
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REF: 68010AMR1A0130XK00

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TRKH 7209 7849 3480
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

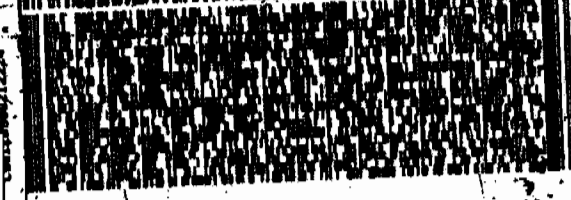
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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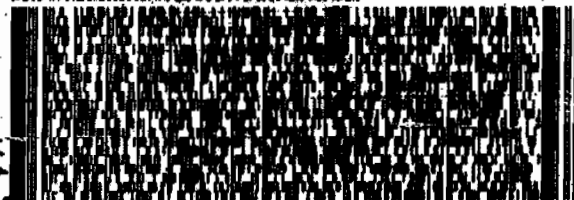
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(843)556-8171

REF: 6B010AMR2A054196D0

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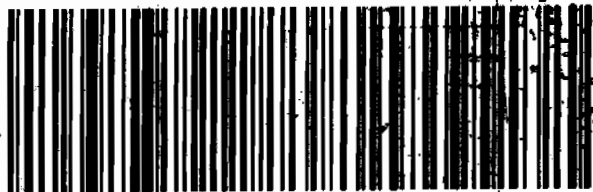
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Post # 156149-404 NRT V3 09-09

ORIGIN ID: SAFA (505)665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22DEC09
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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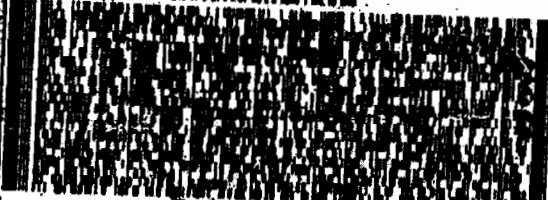
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GENERAL ENGINEERING LAB
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ORIGIN ID: SAFA (505)665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 22DEC09
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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

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LOS ALAMOS, NM 87545
UNITED STATES US

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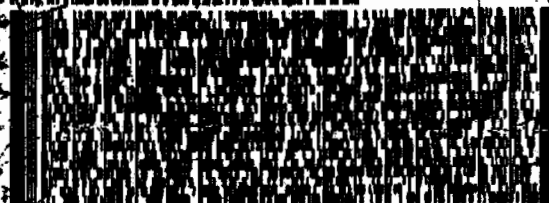
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2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-2171

REF: 6B0100TR10013AGWHO

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ORIGIN ID: SAFA (505)665-9560
JOYLENE VALDEZ
LOS ALAMOS NATL LAB.
TA00 BLDG 1237 DPU-03

LOS ALAMOS, NM 87545.
UNITED STATES US

SHIP DATE: 22DEC09
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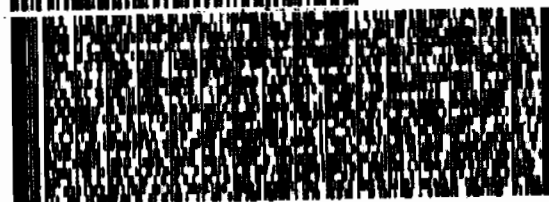
• VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171

REF: 6B010AMR1A015AGWH0

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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

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

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

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

A The TIC is a suspected aldol-condensation product

B Target analyte was detected in the associated blank

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

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

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

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

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

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

H Analytical holding time was exceeded

h Preparation or preservation holding time was exceeded

J Value is estimated

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

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

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

ND Analyte concentration is not detected above the reporting limit

UI Gamma Spectroscopy-Uncertain identification

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

Y QC Samples were not spiked with this compound

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

GC/MS Semivolatile Analysis

**Semi-Volatile Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1036**

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:	937095
Prep Batch Number:	937094

Sample Analysis

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

Sample ID	Client ID
243490001	RE12-10-7288
243490002	RE12-10-7290
243490003	RE12-10-7289
243490004	RE12-10-7291
243490005	RE12-10-7292
243490006	RE12-10-7293
243490007	RE12-10-7296
1202005230	Method Blank (MB)
1202005231	Laboratory Control Sample (LCS)

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.

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 243501001 was selected for analysis as the Matrix Spike and Matrix Spike Duplicate. The sample was a re-log sample from a previous work-order and will not be reported to the client. Due to software limitations, the other SDGs in this batch not associated with work-order 243501 will not have a reportable MS and MSD in their data package. The sample and MS/MSD pair were extracted, analyzed and displayed acceptable results. The raw data files and a manually generated spike recovery report have been placed in the Miscellaneous Sections of the SDGs reported from this batch.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were 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 Report (DER) Documentation

The following DER was generated for this SDG: 776978. It is located in the Miscellaneous Section of the data report.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments

Additional comments were not required for this SDG.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD7.I	HP Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

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

Review Validation:

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

Reviewer: Don Benckman Date: 1-13-10

Roadmap for LANL 10-1036 SVOA

This roadmap was analyzed by jos00786 on 01-05-2010, 09:15.

This roadmap was reviewed by bar00895 on 01-05-2010, 15:14.

Sample

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<input type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0215.d	243490003	02-JAN-2010	20:48	10-1036.sub	RE12-10-7289	1	937095	REPORT
<input checked="" type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0216.d	243490004	02-JAN-2010	21:09	10-1036.sub	RE12-10-7291	1	937095	DUSE: c99/101 <RDL - rerun s7a0411
<input type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0217.d	243490005	02-JAN-2010	21:31	10-1036.sub	RE12-10-7292	1	937095	REPORT
<input type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0218.d	243490006	02-JAN-2010	21:53	10-1036.sub	RE12-10-7293	1	937095	REPORT
<input checked="" type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0219.d	243490007	02-JAN-2010	22:15	10-1036.sub	RE12-10-7296	1	937095	DUSE: c99/101 <RDL - rerun s7a0412
<input type="checkbox"/>	N	/chem/MSD7.i/s010410.b/w7a0408.d	243490001	04-JAN-2010	13:34	10-1036.sub	RE12-10-7288	1	937095	REPORT
<input type="checkbox"/>	N	/chem/MSD7.i/s010410.b/w7a0411.d	243490004	04-JAN-2010	14:39	10-1036.sub	RE12-10-7291	1	937095	REPORT
<input type="checkbox"/>	N	/chem/MSD7.i/s010410.b/w7a0412.d	243490007	04-JAN-2010	15:01	10-1036.sub	RE12-10-7296	1	937095	REPORT

QC Sample

exclude	manual	datafile	sampleid	sampletype	injdate	inftime	sublist	clientid	dilution	batchid	comment
<input checked="" type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0208.d	1202005230	mb	02-JAN-2010	18:17	10-1036.sub	SBLK01	1	937095	DUSE: PAH hits <RDL (c99/100/101) - see rerun s7a0406
<input type="checkbox"/>	N	/chem/MSD7.i/s010210.b/w7a0209.d	1202005231	ics	02-JAN-2010	18:38	10-1036.sub	SBLK01LCS	1	937095	REPORT
<input type="checkbox"/>	N	/chem/MSD7.i/s010410.b/w7a0406.d	1202005230	mb	04-JAN-2010	12:51	10-1036.sub	SBLK01	1	937095	REPORT

Sample Data Summary

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

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SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7288
Batch ID: 937095
Run Date: 01/04/2010 13:34
Prep Date: 12/28/2009 21:32
Data File: s7a0408.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	367	ug/kg	73.3	367
108-95-2	Phenol	U	367	ug/kg	73.3	367
95-57-8	2-Chlorophenol	U	367	ug/kg	73.3	367
106-46-7	1,4-Dichlorobenzene	U	367	ug/kg	73.3	367
621-64-7	N-Nitrosodipropylamine	U	367	ug/kg	73.3	367
59-50-7	4-Chloro-3-methylphenol	U	367	ug/kg	73.3	367
83-32-9	Acenaphthene	U	36.7	ug/kg	12.1	36.7
121-14-2	2,4-Dinitrotoluene	U	367	ug/kg	36.7	367
100-02-7	4-Nitrophenol	U	367	ug/kg	121	367
87-86-5	Pentachlorophenol	U	367	ug/kg	91.7	367
129-00-0	Pyrene	U	36.7	ug/kg	11.0	36.7
110-86-1	Pyridine	U	367	ug/kg	73.3	367
62-53-3	Aniline	U	367	ug/kg	110	367
111-44-4	bis(2-Chloroethyl) ether	U	367	ug/kg	73.3	367
541-73-1	1,3-Dichlorobenzene	U	367	ug/kg	73.3	367
100-51-6	Benzyl alcohol	U	367	ug/kg	110	367
95-50-1	1,2-Dichlorobenzene	U	367	ug/kg	73.3	367
108-60-1	bis(2-Chloroisopropyl)ether	U	367	ug/kg	73.3	367
95-48-7	o-Cresol	U	367	ug/kg	73.3	367
65794-96-9	m,p-Cresols	U	367	ug/kg	110	367
67-72-1	Hexachloroethane	U	367	ug/kg	73.3	367
98-95-3	Nitrobenzene	U	367	ug/kg	73.3	367
78-59-1	Isophorone	U	367	ug/kg	73.3	367
88-75-5	2-Nitrophenol	U	367	ug/kg	73.3	367
105-67-9	2,4-Dimethylphenol	U	367	ug/kg	128	367
111-91-1	bis(2-Chloroethoxy)methane	U	367	ug/kg	73.3	367
120-83-2	2,4-Dichlorophenol	U	367	ug/kg	73.3	367
65-85-0	Benzoic acid	U	733	ug/kg	183	733
91-20-3	Naphthalene	U	36.7	ug/kg	11.0	36.7
106-47-8	4-Chloroaniline	U	367	ug/kg	73.3	367
87-68-3	Hexachlorobutadiene	U	367	ug/kg	73.3	367
91-57-6	2-Methylnaphthalene	U	36.7	ug/kg	7.33	36.7
77-47-4	Hexachlorocyclopentadiene	U	367	ug/kg	73.3	367
88-06-2	2,4,6-Trichlorophenol	U	367	ug/kg	73.3	367
95-95-4	2,4,5-Trichlorophenol	U	367	ug/kg	73.3	367
91-58-7	2-Chloronaphthalene	U	36.7	ug/kg	12.1	36.7
88-74-4	2-Nitroaniline	U	367	ug/kg	73.3	367
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	367	ug/kg	73.3	367

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

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7288
Batch ID: 937095
Run Date: 01/04/2010 13:34
Prep Date: 12/28/2009 21:32
Data File: s7a0408.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	367	ug/kg	73.3	367
208-96-8	2,6-Dinitrotoluene	U	367	ug/kg	36.7	367
51-28-5	Acenaphthylene	U	36.7	ug/kg	11.0	36.7
132-64-9	2,4-Dinitrophenol	U	733	ug/kg	139	733
84-66-2	Dibenzofuran	U	367	ug/kg	73.3	367
86-73-7	Diethylphthalate	U	367	ug/kg	73.3	367
7005-72-3	Fluorene	U	36.7	ug/kg	11.0	36.7
534-52-1	4-Chlorophenylphenylether	U	367	ug/kg	73.3	367
100-01-6	2-Methyl-4,6-dinitrophenol	U	367	ug/kg	73.3	367
122-39-4	4-Nitroaniline	U	367	ug/kg	110	367
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	367	ug/kg	73.3	367
118-74-1	Azobenzene	U	367	ug/kg	73.3	367
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	367	ug/kg	73.3	367
84-74-2	Hexachlorobenzene	U	367	ug/kg	73.3	367
206-44-0	Phenanthrene	U	36.7	ug/kg	11.0	36.7
85-68-7	Anthracene	U	36.7	ug/kg	7.33	36.7
56-55-3	Di-n-butylphthalate	U	367	ug/kg	73.3	367
91-94-1	Fluoranthene	U	36.7	ug/kg	11.0	36.7
218-01-9	Butylbenzylphthalate	U	367	ug/kg	73.3	367
117-81-7	Benzo(a)anthracene	U	36.7	ug/kg	11.0	36.7
117-84-0	3,3'-Dichlorobenzidine	U	367	ug/kg	110	367
205-99-2	Chrysene	U	36.7	ug/kg	11.0	36.7
207-08-9	bis(2-Ethylhexyl)phthalate	U	367	ug/kg	73.3	367
50-32-8	Di-n-octylphthalate	U	367	ug/kg	73.3	367
193-39-5	Benzo(b)fluoranthene	U	36.7	ug/kg	11.0	36.7
53-70-3	Benzo(k)fluoranthene	U	36.7	ug/kg	11.0	36.7
191-24-2	Benzo(a)pyrene	U	36.7	ug/kg	11.0	36.7
120-82-1	Indeno(1,2,3-cd)pyrene	U	36.7	ug/kg	11.0	36.7
	Dibenzo(a,h)anthracene	U	36.7	ug/kg	11.0	36.7
	Benzo(ghi)perylene	U	36.7	ug/kg	11.0	36.7
	1,2,4-Trichlorobenzene	U	367	ug/kg	73.3	367

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	521	ug/kg		J
	Unknown Aldol Condensate	3	349	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	5.77	346	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	1500	ug/kg	99	NJ
470-40-6	Thujopsene	5.97	244	ug/kg	83	NJ
77-53-2	Cedrol	6.58	1280	ug/kg	94	NJ
	Unknown	6.89	223	ug/kg		J
	Unknown	8.91	288	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	2420	ug/kg	98	NJ
	Unknown	9.49	188	ug/kg		J
	Unknown	10.06	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	234	ug/kg	95	NJ
35060-26-5	D:B-Friedo-18,19-secolup-19-ene, 3,10-ep	13.24	814	ug/kg	86	NJ
83-47-6	.gamma.-Sitosterol	13.74	251	ug/kg	97	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	369	ug/kg	73.9	369
108-95-2	Phenol	U	369	ug/kg	73.9	369
95-57-8	2-Chlorophenol	U	369	ug/kg	73.9	369
106-46-7	1,4-Dichlorobenzene	U	369	ug/kg	73.9	369
621-64-7	N-Nitrosodipropylamine	U	369	ug/kg	73.9	369
59-50-7	4-Chloro-3-methylphenol	U	369	ug/kg	73.9	369
83-32-9	Acenaphthene	U	36.9	ug/kg	12.2	36.9
121-14-2	2,4-Dinitrotoluene	U	369	ug/kg	36.9	369
100-02-7	4-Nitrophenol	U	369	ug/kg	122	369
87-86-5	Pentachlorophenol	U	369	ug/kg	92.4	369
129-00-0	Pyrene	U	36.9	ug/kg	11.1	36.9
110-86-1	Pyridine	U	369	ug/kg	73.9	369
62-53-3	Aniline	U	369	ug/kg	111	369
111-44-4	bis(2-Chloroethyl) ether	U	369	ug/kg	73.9	369
541-73-1	1,3-Dichlorobenzene	U	369	ug/kg	73.9	369
100-51-6	Benzyl alcohol	U	369	ug/kg	111	369
95-50-1	1,2-Dichlorobenzene	U	369	ug/kg	73.9	369
108-60-1	bis(2-Chloroisopropyl)ether	U	369	ug/kg	73.9	369
95-48-7	o-Cresol	U	369	ug/kg	73.9	369
65794-96-9	m,p-Cresols	U	369	ug/kg	111	369
67-72-1	Hexachloroethane	U	369	ug/kg	73.9	369
98-95-3	Nitrobenzene	U	369	ug/kg	73.9	369
78-59-1	Isophorone	U	369	ug/kg	73.9	369
88-75-5	2-Nitrophenol	U	369	ug/kg	73.9	369
105-67-9	2,4-Dimethylphenol	U	369	ug/kg	129	369
111-91-1	bis(2-Chloroethoxy)methane	U	369	ug/kg	73.9	369
120-83-2	2,4-Dichlorophenol	U	369	ug/kg	73.9	369
65-85-0	Benzoic acid	U	739	ug/kg	185	739
91-20-3	Naphthalene	U	36.9	ug/kg	11.1	36.9
106-47-8	4-Chloroaniline	U	369	ug/kg	73.9	369
87-68-3	Hexachlorobutadiene	U	369	ug/kg	73.9	369
91-57-6	2-Methylnaphthalene	U	36.9	ug/kg	7.39	36.9
77-47-4	Hexachlorocyclopentadiene	U	369	ug/kg	73.9	369
88-06-2	2,4,6-Trichlorophenol	U	369	ug/kg	73.9	369
95-95-4	2,4,5-Trichlorophenol	U	369	ug/kg	73.9	369
91-58-7	2-Chloronaphthalene	U	36.9	ug/kg	12.2	36.9
88-74-4	2-Nitroaniline	U	369	ug/kg	73.9	369
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	369	ug/kg	73.9	369

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	369	ug/kg	73.9	369
208-96-8	2,6-Dinitrotoluene	U	369	ug/kg	36.9	369
51-28-5	Acenaphthylene	U	36.9	ug/kg	11.1	36.9
132-64-9	2,4-Dinitrophenol	U	739	ug/kg	140	739
84-66-2	Dibenzofuran	U	369	ug/kg	73.9	369
86-73-7	Diethylphthalate	U	369	ug/kg	73.9	369
7005-72-3	Fluorene	U	36.9	ug/kg	11.1	36.9
534-52-1	4-Chlorophenylphenylether	U	369	ug/kg	73.9	369
100-01-6	2-Methyl-4,6-dinitrophenol	U	369	ug/kg	73.9	369
122-39-4	4-Nitroaniline	U	369	ug/kg	111	369
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	369	ug/kg	73.9	369
118-74-1	Azobenzene	U	369	ug/kg	73.9	369
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	369	ug/kg	73.9	369
84-74-2	Hexachlorobenzene	U	369	ug/kg	73.9	369
206-44-0	Phenanthrene	U	36.9	ug/kg	11.1	36.9
85-68-7	Anthracene	U	36.9	ug/kg	7.39	36.9
56-55-3	Di-n-butylphthalate	U	369	ug/kg	73.9	369
91-94-1	Fluoranthene	U	36.9	ug/kg	11.1	36.9
218-01-9	Butylbenzylphthalate	U	369	ug/kg	73.9	369
117-81-7	Benzo(a)anthracene	U	36.9	ug/kg	11.1	36.9
117-84-0	3,3'-Dichlorobenzidine	U	369	ug/kg	111	369
205-99-2	Chrysene	U	36.9	ug/kg	11.1	36.9
207-08-9	bis(2-Ethylhexyl)phthalate	U	369	ug/kg	73.9	369
50-32-8	Di-n-octylphthalate	U	369	ug/kg	73.9	369
193-39-5	Benzo(b)fluoranthene	U	36.9	ug/kg	11.1	36.9
53-70-3	Benzo(k)fluoranthene	U	36.9	ug/kg	11.1	36.9
191-24-2	Benzo(a)pyrene	U	36.9	ug/kg	11.1	36.9
120-82-1	Indeno(1,2,3-cd)pyrene	U	36.9	ug/kg	11.1	36.9
	Dibenzo(a,h)anthracene	U	36.9	ug/kg	11.1	36.9
	Benzo(ghi)perylene	U	36.9	ug/kg	11.1	36.9
	1,2,4-Trichlorobenzene	U	369	ug/kg	73.9	369

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	213	ug/kg		J
	Unknown Aldol Condensate	3	272	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.77	206	ug/kg	91	NJ
4630-07-3	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	5.81	1370	ug/kg	98	NJ
	Unknown	5.97	174	ug/kg		J
77-53-2	Cedrol	6.58	1490	ug/kg	94	NJ
	Unknown	6.89	221	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.9	172	ug/kg	98	NJ
	Unknown	9.01	2230	ug/kg		J
	Unknown	10.05	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	187	ug/kg	95	NJ
	Unknown	13.22	271	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490002

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	342	ug/kg	68.4	342
108-95-2	Phenol	U	342	ug/kg	68.4	342
95-57-8	2-Chlorophenol	U	342	ug/kg	68.4	342
106-46-7	1,4-Dichlorobenzene	U	342	ug/kg	68.4	342
621-64-7	N-Nitrosodipropylamine	U	342	ug/kg	68.4	342
59-50-7	4-Chloro-3-methylphenol	U	342	ug/kg	68.4	342
83-32-9	Acenaphthene	U	34.2	ug/kg	11.3	34.2
121-14-2	2,4-Dinitrotoluene	U	342	ug/kg	34.2	342
100-02-7	4-Nitrophenol	U	342	ug/kg	113	342
87-86-5	Pentachlorophenol	U	342	ug/kg	85.5	342
129-00-0	Pyrene	U	34.2	ug/kg	10.3	34.2
110-86-1	Pyridine	U	342	ug/kg	68.4	342
62-53-3	Aniline	U	342	ug/kg	103	342
111-44-4	bis(2-Chloroethyl) ether	U	342	ug/kg	68.4	342
541-73-1	1,3-Dichlorobenzene	U	342	ug/kg	68.4	342
100-51-6	Benzyl alcohol	U	342	ug/kg	103	342
95-50-1	1,2-Dichlorobenzene	U	342	ug/kg	68.4	342
108-60-1	bis(2-Chloroisopropyl)ether	U	342	ug/kg	68.4	342
95-48-7	o-Cresol	U	342	ug/kg	68.4	342
65794-96-9	m,p-Cresols	U	342	ug/kg	103	342
67-72-1	Hexachloroethane	U	342	ug/kg	68.4	342
98-95-3	Nitrobenzene	U	342	ug/kg	68.4	342
78-59-1	Isophorone	U	342	ug/kg	68.4	342
88-75-5	2-Nitrophenol	U	342	ug/kg	68.4	342
105-67-9	2,4-Dimethylphenol	U	342	ug/kg	120	342
111-91-1	bis(2-Chloroethoxy)methane	U	342	ug/kg	68.4	342
120-83-2	2,4-Dichlorophenol	U	342	ug/kg	68.4	342
65-85-0	Benzoic acid	U	684	ug/kg	171	684
91-20-3	Naphthalene	U	34.2	ug/kg	10.3	34.2
106-47-8	4-Chloroaniline	U	342	ug/kg	68.4	342
87-68-3	Hexachlorobutadiene	U	342	ug/kg	68.4	342
91-57-6	2-Methylnaphthalene	U	34.2	ug/kg	6.84	34.2
77-47-4	Hexachlorocyclopentadiene	U	342	ug/kg	68.4	342
88-06-2	2,4,6-Trichlorophenol	U	342	ug/kg	68.4	342
95-95-4	2,4,5-Trichlorophenol	U	342	ug/kg	68.4	342
91-58-7	2-Chloronaphthalene	U	34.2	ug/kg	11.3	34.2
88-74-4	2-Nitroaniline	U	342	ug/kg	68.4	342
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	342	ug/kg	68.4	342

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

SDG Number: 10-1036
Lab Sample ID: 243490002

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	342	ug/kg	68.4	342
606-20-2	2,6-Dinitrotoluene	U	342	ug/kg	34.2	342
208-96-8	Acenaphthylene	U	34.2	ug/kg	10.3	34.2
51-28-5	2,4-Dinitrophenol	U	684	ug/kg	130	684
132-64-9	Dibenzofuran	U	342	ug/kg	68.4	342
84-66-2	Diethylphthalate	U	342	ug/kg	68.4	342
86-73-7	Fluorene	U	34.2	ug/kg	10.3	34.2
7005-72-3	4-Chlorophenylphenylether	U	342	ug/kg	68.4	342
534-52-1	2-Methyl-4,6-dinitrophenol	U	342	ug/kg	68.4	342
100-01-6	4-Nitroaniline	U	342	ug/kg	103	342
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	342	ug/kg	68.4	342
122-66-7	Azobenzene	U	342	ug/kg	68.4	342
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	342	ug/kg	68.4	342
118-74-1	Hexachlorobenzene	U	342	ug/kg	68.4	342
85-01-8	Phenanthrene	U	34.2	ug/kg	10.3	34.2
120-12-7	Anthracene	U	34.2	ug/kg	6.84	34.2
84-74-2	Di-n-butylphthalate	U	342	ug/kg	68.4	342
206-44-0	Fluoranthene	U	34.2	ug/kg	10.3	34.2
85-68-7	Butylbenzylphthalate	U	342	ug/kg	68.4	342
56-55-3	Benzo(a)anthracene	U	34.2	ug/kg	10.3	34.2
91-94-1	3,3'-Dichlorobenzidine	U	342	ug/kg	103	342
218-01-9	Chrysene	U	34.2	ug/kg	10.3	34.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	342	ug/kg	68.4	342
117-84-0	Di-n-octylphthalate	U	342	ug/kg	68.4	342
205-99-2	Benzo(b)fluoranthene	U	34.2	ug/kg	10.3	34.2
207-08-9	Benzo(k)fluoranthene	U	34.2	ug/kg	10.3	34.2
50-32-8	Benzo(a)pyrene	U	34.2	ug/kg	10.3	34.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.2	ug/kg	10.3	34.2
53-70-3	Dibenzo(a,h)anthracene	U	34.2	ug/kg	10.3	34.2
191-24-2	Benzo(ghi)perylene	U	34.2	ug/kg	10.3	34.2
120-82-1	1,2,4-Trichlorobenzene	U	342	ug/kg	68.4	342

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.12	171	ug/kg		J
	Unknown Aldol Condensate	3.01	194	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490002Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MSMatrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
5131-66-8	2-Propanol, 1-butoxy-	3.51	219	ug/kg	90	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	358	ug/kg	99	NJ
77-53-2	Cedrol	6.58	359	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	535	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	10.39	161	ug/kg	95	NJ

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	363	ug/kg	72.5	363
108-95-2	Phenol	U	363	ug/kg	72.5	363
95-57-8	2-Chlorophenol	U	363	ug/kg	72.5	363
106-46-7	1,4-Dichlorobenzene	U	363	ug/kg	72.5	363
621-64-7	N-Nitrosodipropylamine	U	363	ug/kg	72.5	363
59-50-7	4-Chloro-3-methylphenol	U	363	ug/kg	72.5	363
83-32-9	Acenaphthene	U	36.3	ug/kg	12.0	36.3
121-14-2	2,4-Dinitrotoluene	U	363	ug/kg	36.3	363
100-02-7	4-Nitrophenol	U	363	ug/kg	120	363
87-86-5	Pentachlorophenol	U	363	ug/kg	90.7	363
129-00-0	Pyrene	U	36.3	ug/kg	10.9	36.3
110-86-1	Pyridine	U	363	ug/kg	72.5	363
62-53-3	Aniline	U	363	ug/kg	109	363
111-44-4	bis(2-Chloroethyl) ether	U	363	ug/kg	72.5	363
541-73-1	1,3-Dichlorobenzene	U	363	ug/kg	72.5	363
100-51-6	Benzyl alcohol	U	363	ug/kg	109	363
95-50-1	1,2-Dichlorobenzene	U	363	ug/kg	72.5	363
108-60-1	bis(2-Chloroisopropyl)ether	U	363	ug/kg	72.5	363
95-48-7	o-Cresol	U	363	ug/kg	72.5	363
65794-96-9	m,p-Cresols	U	363	ug/kg	109	363
67-72-1	Hexachloroethane	U	363	ug/kg	72.5	363
98-95-3	Nitrobenzene	U	363	ug/kg	72.5	363
78-59-1	Isophorone	U	363	ug/kg	72.5	363
88-75-5	2-Nitrophenol	U	363	ug/kg	72.5	363
105-67-9	2,4-Dimethylphenol	U	363	ug/kg	127	363
111-91-1	bis(2-Chloroethoxy)methane	U	363	ug/kg	72.5	363
120-83-2	2,4-Dichlorophenol	U	363	ug/kg	72.5	363
65-85-0	Benzoic acid	U	725	ug/kg	181	725
91-20-3	Naphthalene	U	36.3	ug/kg	10.9	36.3
106-47-8	4-Chloroaniline	U	363	ug/kg	72.5	363
87-68-3	Hexachlorobutadiene	U	363	ug/kg	72.5	363
91-57-6	2-Methylnaphthalene	U	36.3	ug/kg	7.25	36.3
77-47-4	Hexachlorocyclopentadiene	U	363	ug/kg	72.5	363
88-06-2	2,4,6-Trichlorophenol	U	363	ug/kg	72.5	363
95-95-4	2,4,5-Trichlorophenol	U	363	ug/kg	72.5	363
91-58-7	2-Chloronaphthalene	U	36.3	ug/kg	12.0	36.3
88-74-4	2-Nitroaniline	U	363	ug/kg	72.5	363
99-09-2	o-Nitroaniline	U	363	ug/kg	72.5	363
	3-Nitroaniline					

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	363	ug/kg	72.5	363
208-96-8	2,6-Dinitrotoluene	U	363	ug/kg	36.3	363
51-28-5	Acenaphthylene	U	36.3	ug/kg	10.9	36.3
132-64-9	2,4-Dinitrophenol	U	725	ug/kg	138	725
84-66-2	Dibenzofuran	U	363	ug/kg	72.5	363
86-73-7	Diethylphthalate	U	363	ug/kg	72.5	363
7005-72-3	Fluorene	U	36.3	ug/kg	10.9	36.3
534-52-1	4-Chlorophenylphenylether	U	363	ug/kg	72.5	363
100-01-6	2-Methyl-4,6-dinitrophenol	U	363	ug/kg	72.5	363
122-39-4	4-Nitroaniline	U	363	ug/kg	109	363
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	363	ug/kg	72.5	363
118-74-1	Azobenzene	U	363	ug/kg	72.5	363
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	363	ug/kg	72.5	363
84-74-2	Hexachlorobenzene	U	363	ug/kg	72.5	363
206-44-0	Phenanthrene	U	36.3	ug/kg	10.9	36.3
85-68-7	Anthracene	U	36.3	ug/kg	7.25	36.3
56-55-3	Di-n-butylphthalate	U	363	ug/kg	72.5	363
91-94-1	Fluoranthene	U	36.3	ug/kg	10.9	36.3
218-01-9	Butylbenzylphthalate	U	363	ug/kg	72.5	363
117-81-7	Benzo(a)anthracene	U	36.3	ug/kg	10.9	36.3
117-84-0	3,3'-Dichlorobenzidine	U	363	ug/kg	109	363
205-99-2	Chrysene	U	36.3	ug/kg	10.9	36.3
207-08-9	bis(2-Ethylhexyl)phthalate	U	363	ug/kg	72.5	363
50-32-8	Di-n-octylphthalate	U	363	ug/kg	72.5	363
193-39-5	Benzo(b)fluoranthene	J	36.1	ug/kg	10.9	36.3
53-70-3	Benzo(k)fluoranthene	U	36.3	ug/kg	10.9	36.3
191-24-2	Benzo(a)pyrene	J	12.6	ug/kg	10.9	36.3
120-82-1	Indeno(1,2,3-cd)pyrene	J	16.3	ug/kg	10.9	36.3
	Dibenzo(a,h)anthracene	U	36.3	ug/kg	10.9	36.3
	Benzo(ghi)perylene	J	18.2	ug/kg	10.9	36.3
	1,2,4-Trichlorobenzene	U	363	ug/kg	72.5	363

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	376	ug/kg		J
	Unknown Aldol Condensate	3	369	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 3 of 3

SDG Number: 10-1036
Lab Sample ID: 243490004Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7J
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MSMatrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	455	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	10.4	246	ug/kg	95	NJ
	Unknown	13.24	1340	ug/kg		J
	Unknown	13.74	232	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490005

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl)ether	U	352	ug/kg	70.5	352
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.5	352

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490005

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	352	ug/kg	70.5	352
208-96-8	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
51-28-5	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
132-64-9	2,4-Dinitrophenol	U	705	ug/kg	134	705
84-66-2	Dibenzofuran	U	352	ug/kg	70.5	352
86-73-7	Diethylphthalate	U	352	ug/kg	70.5	352
7005-72-3	Fluorene	U	35.2	ug/kg	10.6	35.2
534-52-1	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
100-01-6	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352
122-39-4	4-Nitroaniline	U	352	ug/kg	106	352
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	352	ug/kg	70.5	352
118-74-1	Azobenzene	U	352	ug/kg	70.5	352
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
84-74-2	Hexachlorobenzene	U	352	ug/kg	70.5	352
206-44-0	Phenanthrene	U	35.2	ug/kg	10.6	35.2
85-68-7	Anthracene	U	35.2	ug/kg	7.05	35.2
56-55-3	Di-n-butylphthalate	U	352	ug/kg	70.5	352
91-94-1	Fluoranthene	U	35.2	ug/kg	10.6	35.2
218-01-9	Butylbenzylphthalate	U	352	ug/kg	70.5	352
117-81-7	Benzo(a)anthracene	J	23.1	ug/kg	10.6	35.2
117-84-0	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
205-99-2	Chrysene	J	27.0	ug/kg	10.6	35.2
207-08-9	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
50-32-8	Di-n-octylphthalate	U	352	ug/kg	70.5	352
193-39-5	Benzo(b)fluoranthene	J	26.0	ug/kg	10.6	35.2
53-70-3	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(a)pyrene	J	18.7	ug/kg	10.6	35.2
120-82-1	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3	250	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	159	ug/kg	99	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 3 of 3

SDG Number: 10-1036
Lab Sample ID: 243490005Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7J
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MSMatrix: R
%Moisture: 6
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
77-53-2	Cedrol	6.57	254	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	523	ug/kg	97	NJ
	Unknown	9.72	237	ug/kg		J
	Unknown	10.05	155	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	202	ug/kg	95	NJ
	Unknown	13.22	294	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 1 of 3

SDG Number: 10-1036
Lab Sample ID: 243490006

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.5
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
62-75-9	N-Methyl-N-nitrosomethylamine	U	340	ug/kg	68.0	340
108-95-2	Phenol	U	340	ug/kg	68.0	340
95-57-8	2-Chlorophenol	U	340	ug/kg	68.0	340
106-46-7	1,4-Dichlorobenzene	U	340	ug/kg	68.0	340
621-64-7	N-Nitrosodipropylamine	U	340	ug/kg	68.0	340
59-50-7	4-Chloro-3-methylphenol	U	340	ug/kg	68.0	340
83-32-9	Acenaphthene	U	34.0	ug/kg	11.2	34.0
121-14-2	2,4-Dinitrotoluene	U	340	ug/kg	34.0	340
100-02-7	4-Nitrophenol	U	340	ug/kg	112	340
87-86-5	Pentachlorophenol	U	340	ug/kg	85.0	340
129-00-0	Pyrene	U	34.0	ug/kg	10.2	34.0
110-86-1	Pyridine	U	340	ug/kg	68.0	340
62-53-3	Aniline	U	340	ug/kg	102	340
111-44-4	bis(2-Chloroethyl) ether	U	340	ug/kg	68.0	340
541-73-1	1,3-Dichlorobenzene	U	340	ug/kg	68.0	340
100-51-6	Benzyl alcohol	U	340	ug/kg	102	340
95-50-1	1,2-Dichlorobenzene	U	340	ug/kg	68.0	340
108-60-1	bis(2-Chloroisopropyl)ether	U	340	ug/kg	68.0	340
95-48-7	o-Cresol	U	340	ug/kg	68.0	340
65794-96-9	m,p-Cresols	U	340	ug/kg	102	340
67-72-1	Hexachloroethane	U	340	ug/kg	68.0	340
98-95-3	Nitrobenzene	U	340	ug/kg	68.0	340
78-59-1	Isophorone	U	340	ug/kg	68.0	340
88-75-5	2-Nitrophenol	U	340	ug/kg	68.0	340
105-67-9	2,4-Dimethylphenol	U	340	ug/kg	119	340
111-91-1	bis(2-Chloroethoxy)methane	U	340	ug/kg	68.0	340
120-83-2	2,4-Dichlorophenol	U	340	ug/kg	68.0	340
65-85-0	Benzoic acid	U	680	ug/kg	170	680
91-20-3	Naphthalene	U	34.0	ug/kg	10.2	34.0
106-47-8	4-Chloroaniline	U	340	ug/kg	68.0	340
87-68-3	Hexachlorobutadiene	U	340	ug/kg	68.0	340
91-57-6	2-Methylnaphthalene	U	34.0	ug/kg	6.80	34.0
77-47-4	Hexachlorocyclopentadiene	U	340	ug/kg	68.0	340
88-06-2	2,4,6-Trichlorophenol	U	340	ug/kg	68.0	340
95-95-4	2,4,5-Trichlorophenol	U	340	ug/kg	68.0	340
91-58-7	2-Chloronaphthalene	U	34.0	ug/kg	11.2	34.0
88-74-4	2-Nitroaniline	U	340	ug/kg	68.0	340
99-09-2	o-Nitroaniline	U	340	ug/kg	68.0	340
	3-Nitroaniline					

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

SDG Number: 10-1036	Date Collected: 12/18/2009 12:00	Matrix: R
Lab Sample ID: 243490006	Date Received: 12/23/2009 10:10	%Moisture: 2.5
	Client: LANL010	Project: LANL01004
Client ID: RE12-10-7293	Method: SW846 8270C	SOP Ref: GL-OA-E-009
Batch ID: 937095	Inst: MSD7.J	Dilution: 1
Run Date: 01/02/2010 21:53	Analyst: JMB3	Inj. Vol: .5 uL
Prep Date: 12/28/2009 21:32	Aliquot: 30.17 g	Final Volume: 1 mL
Data File: s7a0218.d	Column: J&W DB-5MS	Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	340	ug/kg	68.0	340
606-20-2	2,6-Dinitrotoluene	U	340	ug/kg	34.0	340
208-96-8	Acenaphthylene	U	34.0	ug/kg	10.2	34.0
51-28-5	2,4-Dinitrophenol	U	680	ug/kg	129	680
132-64-9	Dibenzofuran	U	340	ug/kg	68.0	340
84-66-2	Diethylphthalate	U	340	ug/kg	68.0	340
86-73-7	Fluorene	U	34.0	ug/kg	10.2	34.0
7005-72-3	4-Chlorophenylphenylether	U	340	ug/kg	68.0	340
534-52-1	2-Methyl-4,6-dinitrophenol	U	340	ug/kg	68.0	340
100-01-6	4-Nitroaniline	U	340	ug/kg	102	340
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	340	ug/kg	68.0	340
122-66-7	Azobenzene	U	340	ug/kg	68.0	340
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	340	ug/kg	68.0	340
118-74-1	Hexachlorobenzene	U	340	ug/kg	68.0	340
85-01-8	Phenanthrene	U	34.0	ug/kg	10.2	34.0
120-12-7	Anthracene	U	34.0	ug/kg	6.80	34.0
84-74-2	Di-n-butylphthalate	U	340	ug/kg	68.0	340
206-44-0	Fluoranthene	U	34.0	ug/kg	10.2	34.0
85-68-7	Butylbenzylphthalate	U	340	ug/kg	68.0	340
56-55-3	Benzo(a)anthracene	U	34.0	ug/kg	10.2	34.0
91-94-1	3,3'-Dichlorobenzidine	U	340	ug/kg	102	340
218-01-9	Chrysene	U	34.0	ug/kg	10.2	34.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	ug/kg	68.0	340
117-84-0	Di-n-octylphthalate	U	340	ug/kg	68.0	340
205-99-2	Benzo(b)fluoranthene	U	34.0	ug/kg	10.2	34.0
207-08-9	Benzo(k)fluoranthene	U	34.0	ug/kg	10.2	34.0
50-32-8	Benzo(a)pyrene	U	34.0	ug/kg	10.2	34.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.0	ug/kg	10.2	34.0
53-70-3	Dibenzo(a,h)anthracene	U	34.0	ug/kg	10.2	34.0
191-24-2	Benzo(ghi)perylene	U	34.0	ug/kg	10.2	34.0
120-82-1	1,2,4-Trichlorobenzene	U	340	ug/kg	68.0	340

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	184	ug/kg		J
	Unknown	2.14	162	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490006Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MSMatrix: R
%Moisture: 2.5
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
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3	245	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	191	ug/kg	98	NJ
301-02-0	9-Octadecenamide, (Z)-	10.39	154	ug/kg	95	NJ

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

SDG Number: 10-1036
Lab Sample ID: 243490007

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7J
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
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	362	ug/kg	72.4	362
108-95-2	Phenol	U	362	ug/kg	72.4	362
95-57-8	2-Chlorophenol	U	362	ug/kg	72.4	362
106-46-7	1,4-Dichlorobenzene	U	362	ug/kg	72.4	362
621-64-7	N-Nitrosodipropylamine	U	362	ug/kg	72.4	362
59-50-7	4-Chloro-3-methylphenol	U	362	ug/kg	72.4	362
83-32-9	Acenaphthene	U	36.2	ug/kg	11.9	36.2
121-14-2	2,4-Dinitrotoluene	U	362	ug/kg	36.2	362
100-02-7	4-Nitrophenol	U	362	ug/kg	119	362
87-86-5	Pentachlorophenol	U	362	ug/kg	90.5	362
129-00-0	Pyrene	U	36.2	ug/kg	10.9	36.2
110-86-1	Pyridine	U	362	ug/kg	72.4	362
62-53-3	Aniline	U	362	ug/kg	109	362
111-44-4	bis(2-Chloroethyl) ether	U	362	ug/kg	72.4	362
541-73-1	1,3-Dichlorobenzene	U	362	ug/kg	72.4	362
100-51-6	Benzyl alcohol	U	362	ug/kg	109	362
95-50-1	1,2-Dichlorobenzene	U	362	ug/kg	72.4	362
108-60-1	bis(2-Chloroisopropyl)ether	U	362	ug/kg	72.4	362
95-48-7	o-Cresol	U	362	ug/kg	72.4	362
65794-96-9	m,p-Cresols	U	362	ug/kg	109	362
67-72-1	Hexachloroethane	U	362	ug/kg	72.4	362
98-95-3	Nitrobenzene	U	362	ug/kg	72.4	362
78-59-1	Isophorone	U	362	ug/kg	72.4	362
88-75-5	2-Nitrophenol	U	362	ug/kg	72.4	362
105-67-9	2,4-Dimethylphenol	U	362	ug/kg	127	362
111-91-1	bis(2-Chloroethoxy)methane	U	362	ug/kg	72.4	362
120-83-2	2,4-Dichlorophenol	U	362	ug/kg	72.4	362
65-85-0	Benzoic acid	U	724	ug/kg	181	724
91-20-3	Naphthalene	U	36.2	ug/kg	10.9	36.2
106-47-8	4-Chloroaniline	U	362	ug/kg	72.4	362
87-68-3	Hexachlorobutadiene	U	362	ug/kg	72.4	362
91-57-6	2-Methylnaphthalene	U	36.2	ug/kg	7.24	36.2
77-47-4	Hexachlorocyclopentadiene	U	362	ug/kg	72.4	362
88-06-2	2,4,6-Trichlorophenol	U	362	ug/kg	72.4	362
95-95-4	2,4,5-Trichlorophenol	U	362	ug/kg	72.4	362
91-58-7	2-Chloronaphthalene	U	36.2	ug/kg	11.9	36.2
88-74-4	2-Nitroaniline	U	362	ug/kg	72.4	362
99-09-2	<i>o</i> -Nitroaniline	U	362	ug/kg	72.4	362
	3-Nitroaniline					

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490007

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
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	362	ug/kg	72.4	362
208-96-8	2,6-Dinitrotoluene	U	362	ug/kg	36.2	362
51-28-5	Acenaphthylene	U	36.2	ug/kg	10.9	36.2
132-64-9	2,4-Dinitrophenol	U	724	ug/kg	138	724
84-66-2	Dibenzofuran	U	362	ug/kg	72.4	362
86-73-7	Diethylphthalate	U	362	ug/kg	72.4	362
7005-72-3	Fluorene	U	36.2	ug/kg	10.9	36.2
534-52-1	4-Chlorophenylphenylether	U	362	ug/kg	72.4	362
100-01-6	2-Methyl-4,6-dinitrophenol	U	362	ug/kg	72.4	362
122-39-4	4-Nitroaniline	U	362	ug/kg	109	362
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	362	ug/kg	72.4	362
118-74-1	Azobenzene	U	362	ug/kg	72.4	362
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	362	ug/kg	72.4	362
84-74-2	Hexachlorobenzene	U	362	ug/kg	72.4	362
206-44-0	Phenanthrene	U	36.2	ug/kg	10.9	36.2
85-68-7	Anthracene	U	36.2	ug/kg	7.24	36.2
56-55-3	Di-n-butylphthalate	U	362	ug/kg	72.4	362
91-94-1	Fluoranthene	U	36.2	ug/kg	10.9	36.2
218-01-9	Butylbenzylphthalate	U	362	ug/kg	72.4	362
117-81-7	Benzo(a)anthracene	U	36.2	ug/kg	10.9	36.2
117-84-0	3,3'-Dichlorobenzidine	U	362	ug/kg	109	362
205-99-2	Chrysene	U	36.2	ug/kg	10.9	36.2
207-08-9	bis(2-Ethylhexyl)phthalate	U	362	ug/kg	72.4	362
50-32-8	Di-n-octylphthalate	U	362	ug/kg	72.4	362
193-39-5	Benzo(b)fluoranthene	J	25.8	ug/kg	10.9	36.2
53-70-3	Benzo(k)fluoranthene	U	36.2	ug/kg	10.9	36.2
191-24-2	Benzo(a)pyrene	J	11.5	ug/kg	10.9	36.2
120-82-1	Indeno(1,2,3-cd)pyrene	J	14.2	ug/kg	10.9	36.2
	Dibenzo(a,h)anthracene	U	36.2	ug/kg	10.9	36.2
	Benzo(ghi)perylene	J	16.4	ug/kg	10.9	36.2
	1,2,4-Trichlorobenzene	U	362	ug/kg	72.4	362

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	402	ug/kg		J
	Unknown Aldol Condensate	3	395	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490007Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MSMatrix: R
%Moisture: 8
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	161	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	552	ug/kg	98	NJ
	Unknown	9.75	322	ug/kg		J
	Unknown	10.05	162	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	228	ug/kg	95	NJ
	Unknown	13.25	1800	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	13.74	288	ug/kg	92	NJ

QC Summary

Semi-Volatile
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1036

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
1202005231	LCS for batch 937094	67	66	74	73	94	84
243490002	RE12-10-7290	55	54	60	63	77	76
243490003	RE12-10-7289	63	64	70	74	85	80
243490005	RE12-10-7292	62	65	66	70	81	77
243490006	RE12-10-7293	60	62	64	67	79	81
1202005230	MB for batch 937094	68	69	76	78	92	97
243490001	RE12-10-7288	67	67	74	80	94	92
243490004	RE12-10-7291	68	69	75	77	98	86
243490007	RE12-10-7296	70	69	76	80	104	92

Surrogate**Acceptance Limits**

2FP	= 2-Fluorophenol	(35%-96%)
PHL	= Phenol-d5	(36%-96%)
NBZ	= Nitrobenzene-d5	(34%-104%)
FBP	= 2-Fluorobiphenyl	(36%-100%)
TBP	= 2,4,6-Tribromophenol	(37%-106%)
TPH	= p-Terphenyl-d14	(40%-124%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

Quality Control Summary Spike Recovery Report

SDG Number: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937094

Matrix: SOIL

Lab Sample ID: 1202005231

Instrument: MSD7.I

Analysis Date: 01/02/2010 18:38

Dilution: 1

Analyst: JMB3

Prep Batch ID: 937094

Inj. Vol: .5 uL

Batch ID: 937095

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	1040	62	31-95
108-95-2	LCS Phenol	1670	0.0	1140	68	37-104
95-57-8	LCS 2-Chlorophenol	1670	0.0	1110	66	40-105
106-46-7	LCS 1,4-Dichlorobenzene	1670	0.0	1140	68	34-103
621-64-7	LCS N-Nitrosodipropylamine	1670	0.0	1090	65	36-110
59-50-7	LCS 4-Chloro-3-methylphenol	1670	0.0	1260	75	46-114
83-32-9	LCS Acenaphthene	1670	0.0	1170	70	40-105
121-14-2	LCS 2,4-Dinitrotoluene	1670	0.0	1270	76	49-107
100-02-7	LCS 4-Nitrophenol	1670	0.0	1440	86	33-110
87-86-5	LCS Pentachlorophenol	1670	0.0	1430	86	38-116
129-00-0	LCS Pyrene	1670	0.0	1150	69	43-108
110-86-1	LCS Pyridine	1670	0.0	1360	81	13-129
62-53-3	LCS Aniline	1670	0.0	899	54	30-121
111-44-4	LCS bis(2-Chloroethyl) ether	1670	0.0	965	58	37-106
541-73-1	LCS 1,3-Dichlorobenzene	1670	0.0	1140	68	33-103
100-51-6	LCS Benzyl alcohol	1670	0.0	1310	78	31-100
95-50-1	LCS 1,2-Dichlorobenzene	1670	0.0	1190	72	34-108
108-60-1	LCS bis(2-Chloroisopropyl)ether	1670	0.0	848	51	34-120
95-48-7	LCS o-Cresol	1670	0.0	1100	66	39-111
65794-96-9	LCS m,p-Cresols	1670	0.0	1210	72	43-118
67-72-1	LCS Hexachloroethane	1670	0.0	1070	64	34-105
98-95-3	LCS Nitrobenzene	1670	0.0	1200	72	37-110

Semi-Volatile

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937094

Matrix: SOIL

Lab Sample ID: 1202005231

Instrument: MSD7.I

Analysis Date: 01/02/2010 18:38

Dilution: 1

Analyst: JMB3

Prep Batch II 937094

Inj. Vol: .5 uL

Batch ID: 937095

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
78-59-1	LCS Isophorone	1670	0.0	1200	72	41-108
88-75-5	LCS 2-Nitrophenol	1670	0.0	1080	65	35-112
105-67-9	LCS 2,4-Dimethylphenol	1670	0.0	1210	73	35-114
111-91-1	LCS bis(2-Chloroethoxy)methane	1670	0.0	1120	67	40-109
120-83-2	LCS 2,4-Dichlorophenol	1670	0.0	1230	74	45-109
65-85-0	LCS Benzoic acid	3330	0.0	2030	61	27-137
91-20-3	LCS Naphthalene	1670	0.0	1170	70	35-105
106-47-8	LCS 4-Chloroaniline	1670	0.0	949	57	30-122
87-68-3	LCS Hexachlorobutadiene	1670	0.0	1360	82	37-111
91-57-6	LCS 2-Methylnaphthalene	1670	0.0	1260	76	40-106
77-47-4	LCS Hexachlorocyclopentadiene	1670	0.0	1480	89	24-135
88-06-2	LCS 2,4,6-Trichlorophenol	1670	0.0	1250	75	46-107
95-95-4	LCS 2,4,5-Trichlorophenol	1670	0.0	1380	83	44-110
91-58-7	LCS 2-Chloronaphthalene	1670	0.0	1150	69	44-104
88-74-4	LCS 2-Nitroaniline o-Nitroaniline	1670	0.0	1120	67	44-113
99-09-2	LCS 3-Nitroaniline m-Nitroaniline	1670	0.0	1300	78	48-113
131-11-3	LCS Dimethylphthalate	1670	0.0	1280	77	47-104
606-20-2	LCS 2,6-Dinitrotoluene	1670	0.0	1210	73	47-103
208-96-8	LCS Acenaphthylene	1670	0.0	1270	76	43-104
51-28-5	LCS 2,4-Dinitrophenol	1670	0.0	1080	65	32-114
132-64-9	LCS Dibenzofuran	1670	0.0	1520	91	47-112
84-66-2	LCS Diethylphthalate	1670	0.0	1350	81	50-108

Quality Control Summary Spike Recovery Report

SDG Number: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937094

Matrix: SOIL

Lab Sample ID: 1202005231

Instrument: MSD7.I

Analysis Date: 01/02/2010 18:38

Dilution: 1

Analyst: JMB3

Prep Batch ID: 937094

Inj. Vol: .5 uL

Batch ID: 937095

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	1270	76	49-102
7005-72-3	LCS 4-Chlorophenylphenylether	1670	0.0	1290	77	50-109
534-52-1	LCS 2-Methyl-4,6-dinitrophenol	1670	0.0	1020	61	35-114
100-01-6	LCS 4-Nitroaniline <i>p</i> -Nitroaniline	1670	0.0	1700	102	44-139
122-39-4	LCS Diphenylamine	1670	0.0	1290	78	46-111
122-66-7	LCS Azobenzene <i>1,2</i> -Diphenylhydrazine	1670	0.0	1140	68	40-119
101-55-3	LCS 4-Bromophenylphenylether	1670	0.0	1240	74	45-112
118-74-1	LCS Hexachlorobenzene	1670	0.0	1350	81	44-115
85-01-8	LCS Phenanthrene	1670	0.0	1200	72	45-107
120-12-7	LCS Anthracene	1670	0.0	1210	73	46-106
84-74-2	LCS Di-n-butylphthalate	1670	0.0	1330	80	52-115
206-44-0	LCS Fluoranthene	1670	0.0	1350	81	50-115
85-68-7	LCS Butylbenzylphthalate	1670	0.0	1200	72	49-115
56-55-3	LCS Benzo(a)anthracene	1670	0.0	1250	75	48-105
91-94-1	LCS 3,3'-Dichlorobenzidine	1670	0.0	1120	67	45-98
218-01-9	LCS Chrysene	1670	0.0	1320	79	48-105
117-81-7	LCS bis(2-Ethylhexyl)phthalate	1670	0.0	1250	75	50-117
117-84-0	LCS Di-n-octylphthalate	1670	0.0	1260	76	39-123
205-99-2	LCS Benzo(b)fluoranthene	1670	0.0	1390	84	46-111
207-08-9	LCS Benzo(k)fluoranthene	1670	0.0	1360	82	46-114
50-32-8	LCS Benzo(a)pyrene	1670	0.0	1370	82	49-112
193-39-5	LCS Indeno(1,2,3-cd)pyrene	1670	0.0	1280	77	45-128

Semi-Volatile

Page 4 of 4

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937094

Matrix: SOIL

Lab Sample ID: 1202005231

Instrument: MSD7.I

Analysis Date: 01/02/2010 18:38

Dilution: 1

Analyst: JMB3

Prep Batch ID: 937094

Inj. Vol: .5 uL

Batch ID: 937095

CAS No	Parname	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	1320	79	44-131
191-24-2	LCS Benzo(ghi)perylene	1670	0.0	1200	72	42-128
120-82-1	LCS 1,2,4-Trichlorobenzene	1670	0.0	1200	72	36-109

Method Blank Summary

Page 1 of 1

SDG Number:	10-1036	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 937094	Instrument ID:	MSD7.I	Data File:	s7a0406-1.d
Lab Sample ID:	1202005230	Prep Date:	12/28/2009 21:32	Analyzed:	01/04/10 12:51
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 937094	1202005231	s7a0209-1.d	01/02/10	1838
02 RE12-10-7290	243490002	s7a0214.d	01/02/10	2026
03 RE12-10-7289	243490003	s7a0215.d	01/02/10	2048
04 RE12-10-7292	243490005	s7a0217.d	01/02/10	2131
05 RE12-10-7293	243490006	s7a0218.d	01/02/10	2153
06 RE12-10-7288	243490001	s7a0408.d	01/04/10	1334
07 RE12-10-7291	243490004	s7a0411.d	01/04/10	1439
08 RE12-10-7296	243490007	s7a0412.d	01/04/10	1501

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1036

Instrument ID: MSD7.I

Injection Date/Time: 02-JAN-10 15:42

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.i/s010210.b/s7a0204.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	41.8
68	Less than 2% of mass 69	1.7
69	Mass 69 Relative Abundance	44.1
70	Less than 2% of mass 69	0.4
127	40 - 60% of mass 198	51.7
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	3.2
441	Present, but less than mass 443	79.2
442	Greater than 40% of mass 198	62.3
443	17 - 23% of mass 442	19.2

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGACVS	WBN091225-12.2	/chem/MSD7.i/s010210.b/s7a020	02-JAN-10 15:54
APCVS	WBN091201-08.2	/chem/MSD7.i/s010210.b/s7a020	02-JAN-10 16:21
SBLK01LCS	1202005231	/chem/MSD7.i/s010210.b/s7a020	02-JAN-10 18:38
RE12-10-7290	243490002	/chem/MSD7.i/s010210.b/s7a021	02-JAN-10 20:26
RE12-10-7289	243490003	/chem/MSD7.i/s010210.b/s7a021	02-JAN-10 20:48
RE12-10-7292	243490005	/chem/MSD7.i/s010210.b/s7a021	02-JAN-10 21:31
RE12-10-7293	243490006	/chem/MSD7.i/s010210.b/s7a021	02-JAN-10 21:53

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1036

Instrument ID: MSD7.I

Injection Date/Time: 04-JAN-10 11:28

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.i/s010410.b/s7a0402.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	38.9
68	Less than 2% of mass 69	1.8
69	Mass 69 Relative Abundance	42.7
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	49.6
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	25.7
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	77.7
442	Greater than 40% of mass 198	65.3
443	17 - 23% of mass 442	19

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	WBN091225-12.2	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 11:41
APCVS	WBN100103-03.2	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 12:07
SBLK01	1202005230	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 12:51
RE12-10-7288	243490001	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 13:34
RE12-10-7291	243490004	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 14:39
RE12-10-7296	243490007	/chem/MSD7.i/s010410.b/s7a0402.d	04-JAN-10 15:01

Instrument Performance Check

DFTPP

Lab Name GEL Laboratories LLC

Client SDG: 10-1036

Instrument ID: MSD7.I

Injection Date/Time: 30-DEC-09 08:32

Column Description: Phenomenex ZB-5MS

Lab File ID /chem/MSD7.i/s123009.b/s713001.d

m/e	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% Relative Abundance	100
51	30 - 60% of mass 198	58.8
68	Less than 2% of mass 69	1.8
69	Mass 69 Relative Abundance	51.4
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	56.4
197	0 - 1% of mass 198	0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	24.2
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	77.5
442	Greater than 40% of mass 198	60.9
443	17 - 23% of mass 442	19.5

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

Client Sample ID	Lab Sample ID	Lab File ID	Time Analyzed
MEGA001	WBN091225-09	/chem/MSD7.i/s123009.b/s713003	30-DEC-09 09:11
MEGA010	WBN091225-10	/chem/MSD7.i/s123009.b/s713004	30-DEC-09 09:38
MEGA040	WBN091225-12.1	/chem/MSD7.i/s123009.b/s713006	30-DEC-09 10:32
MEGA050	WBN091225-13	/chem/MSD7.i/s123009.b/s713007	30-DEC-09 10:59
MEGA080	WBN091225-14	/chem/MSD7.i/s123009.b/s713008	30-DEC-09 11:26
MEGA020	WBN091225-11	/chem/MSD7.i/s123009.b/s713009	30-DEC-09 11:53
MEGA100	WBN091225-15	/chem/MSD7.i/s123009.b/s713010	30-DEC-09 12:20
MEGA120	WBN091225-16	/chem/MSD7.i/s123009.b/s713011	30-DEC-09 12:47
MEGAICV	WBN091223-17.1	/chem/MSD7.i/s123009.b/s713013	30-DEC-09 13:41
AP010	WBN091201-01	/chem/MSD7.i/s123009.b/s713014	30-DEC-09 14:08
AP020	WBN091201-02	/chem/MSD7.i/s123009.b/s713015	30-DEC-09 14:30
AP050	WBN091201-04	/chem/MSD7.i/s123009.b/s713017	30-DEC-09 15:14
AP080	WBN091201-05	/chem/MSD7.i/s123009.b/s713018	30-DEC-09 15:36
AP100	WBN091201-06	/chem/MSD7.i/s123009.b/s713019	30-DEC-09 15:58
AP120	WBN091201-07	/chem/MSD7.i/s123009.b/s713020	30-DEC-09 16:20
APICV	WBN091201-08.1	/chem/MSD7.i/s123009.b/s713028	30-DEC-09 19:15

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1036

Instrument: MSD7.I

STD Analysis Time: 02-JAN-10 15:54

GC Column: J&W DB-5MS

Data File: s7a0205.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	217575		3.96	798340		4.82	464697		6.07	876904		7.24	863955		9.64	746635		11.3
Upper Limit	435150		4.46	1596680		5.32	929394		6.57	1753808		7.74	1727910		10.1	1493270		11.8
Lower Limit	108788		3.46	399170		4.32	232349		5.57	438452		6.74	431978		9.14	373318		10.8
Sample ID																		
BLK01LCS	269967		3.97	1022970		4.82	568992		6.07	1109679		7.24	1155468		9.64	1018181		11.3
RE12-10-7290	347499		3.97	1255664		4.82	734574		6.07	1395992		7.24	1490967		9.63	1286883		11.3
RE12-10-7289	267354		3.97	987624		4.82	557843		6.07	1085632		7.24	1147439		9.63	991410		11.3
RE12-10-7292	221232		3.96	881274		4.82	509365		6.07	978604		7.24	1029356		9.63	869465		11.3
RE12-10-7293	273463		3.97	1024911		4.82	601301		6.07	1139765		7.24	1117252		9.63	900923		11.3

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Internal Standard Area and RT Summary

Lab Name : GEL Laboratories LLC

Client SDG: 10-1036

Instrument: MSD7.I

STD Analysis Time: 04-JAN-10 11:41

GC Column: J&W DB-5MS

Data File: s7a0403.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	277706		3.96	988090		4.82	593807		6.07	1152466		7.24	1073914		9.64	960433		11.3
Upper Limit	555412		4.46	1976180		5.32	1191614		6.57	2304932		7.74	2147828		10.1	1920866		11.8
Lower Limit	138853		3.46	494045		4.32	297904		5.57	576233		6.74	536957		9.14	480217		10.8
Sample ID																		
BLK01	273737		3.96	1016006		4.82	593334		6.07	1121045		7.24	1019263		9.63	889221		11.3
RE12-10-7288	309560		3.96	1144899		4.82	647402		6.07	1236542		7.24	1130137		9.64	1011361		11.3
RE12-10-7291	293940		3.96	1103324		4.82	642613		6.07	1234063		7.24	1232555		9.63	1009129		11.3
RE12-10-7296	321122		3.96	1183884		4.82	691773		6.07	1361784		7.24	1297976		9.64	1026705		11.3

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = + 0.50 minutes of internal standard RT

RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC Limits

Sample Data

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7288
Batch ID: 937095
Run Date: 01/04/2010 13:34
Prep Date: 12/28/2009 21:32
Data File: s7a0408.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	367	ug/kg	73.3	367
108-95-2	Phenol	U	367	ug/kg	73.3	367
95-57-8	2-Chlorophenol	U	367	ug/kg	73.3	367
106-46-7	1,4-Dichlorobenzene	U	367	ug/kg	73.3	367
621-64-7	N-Nitrosodipropylamine	U	367	ug/kg	73.3	367
59-50-7	4-Chloro-3-methylphenol	U	367	ug/kg	73.3	367
83-32-9	Acenaphthene	U	36.7	ug/kg	12.1	36.7
121-14-2	2,4-Dinitrotoluene	U	367	ug/kg	36.7	367
100-02-7	4-Nitrophenol	U	367	ug/kg	121	367
87-86-5	Pentachlorophenol	U	367	ug/kg	91.7	367
129-00-0	Pyrene	U	36.7	ug/kg	11.0	36.7
110-86-1	Pyridine	U	367	ug/kg	73.3	367
62-53-3	Aniline	U	367	ug/kg	110	367
111-44-4	bis(2-Chloroethyl) ether	U	367	ug/kg	73.3	367
541-73-1	1,3-Dichlorobenzene	U	367	ug/kg	73.3	367
100-51-6	Benzyl alcohol	U	367	ug/kg	110	367
95-50-1	1,2-Dichlorobenzene	U	367	ug/kg	73.3	367
108-60-1	bis(2-Chloroisopropyl)ether	U	367	ug/kg	73.3	367
95-48-7	o-Cresol	U	367	ug/kg	73.3	367
65794-96-9	m,p-Cresols	U	367	ug/kg	110	367
67-72-1	Hexachloroethane	U	367	ug/kg	73.3	367
98-95-3	Nitrobenzene	U	367	ug/kg	73.3	367
78-59-1	Isophorone	U	367	ug/kg	73.3	367
88-75-5	2-Nitrophenol	U	367	ug/kg	73.3	367
105-67-9	2,4-Dimethylphenol	U	367	ug/kg	128	367
111-91-1	bis(2-Chloroethoxy)methane	U	367	ug/kg	73.3	367
120-83-2	2,4-Dichlorophenol	U	367	ug/kg	73.3	367
65-85-0	Benzoic acid	U	733	ug/kg	183	733
91-20-3	Naphthalene	U	36.7	ug/kg	11.0	36.7
106-47-8	4-Chloroaniline	U	367	ug/kg	73.3	367
87-68-3	Hexachlorobutadiene	U	367	ug/kg	73.3	367
91-57-6	2-Methylnaphthalene	U	36.7	ug/kg	7.33	36.7
77-47-4	Hexachlorocyclopentadiene	U	367	ug/kg	73.3	367
88-06-2	2,4,6-Trichlorophenol	U	367	ug/kg	73.3	367
95-95-4	2,4,5-Trichlorophenol	U	367	ug/kg	73.3	367
91-58-7	2-Chloronaphthalene	U	36.7	ug/kg	12.1	36.7
88-74-4	2-Nitroaniline	U	367	ug/kg	73.3	367
	o-Nitroaniline					
99-09-2	3-Nitroaniline	U	367	ug/kg	73.3	367

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

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	367	ug/kg	73.3	367
606-20-2	2,6-Dinitrotoluene	U	367	ug/kg	36.7	367
208-96-8	Acenaphthylene	U	36.7	ug/kg	11.0	36.7
51-28-5	2,4-Dinitrophenol	U	733	ug/kg	139	733
132-64-9	Dibenzofuran	U	367	ug/kg	73.3	367
84-66-2	Diethylphthalate	U	367	ug/kg	73.3	367
86-73-7	Fluorene	U	36.7	ug/kg	11.0	36.7
7005-72-3	4-Chlorophenylphenylether	U	367	ug/kg	73.3	367
534-52-1	2-Methyl-4,6-dinitrophenol	U	367	ug/kg	73.3	367
100-01-6	4-Nitroaniline	U	367	ug/kg	110	367
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	367	ug/kg	73.3	367
122-66-7	Azobenzene	U	367	ug/kg	73.3	367
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	367	ug/kg	73.3	367
118-74-1	Hexachlorobenzene	U	367	ug/kg	73.3	367
85-01-8	Phenanthrene	U	36.7	ug/kg	11.0	36.7
120-12-7	Anthracene	U	36.7	ug/kg	7.33	36.7
84-74-2	Di-n-butylphthalate	U	367	ug/kg	73.3	367
206-44-0	Fluoranthene	U	36.7	ug/kg	11.0	36.7
85-68-7	Butylbenzylphthalate	U	367	ug/kg	73.3	367
56-55-3	Benzo(a)anthracene	U	36.7	ug/kg	11.0	36.7
91-94-1	3,3'-Dichlorobenzidine	U	367	ug/kg	110	367
218-01-9	Chrysene	U	36.7	ug/kg	11.0	36.7
117-81-7	bis(2-Ethylhexyl)phthalate	U	367	ug/kg	73.3	367
117-84-0	Di-n-octylphthalate	U	367	ug/kg	73.3	367
205-99-2	Benzo(b)fluoranthene	U	36.7	ug/kg	11.0	36.7
207-08-9	Benzo(k)fluoranthene	U	36.7	ug/kg	11.0	36.7
50-32-8	Benzo(a)pyrene	U	36.7	ug/kg	11.0	36.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.7	ug/kg	11.0	36.7
53-70-3	Dibenzo(a,h)anthracene	U	36.7	ug/kg	11.0	36.7
191-24-2	Benzo(ghi)perylene	U	36.7	ug/kg	11.0	36.7
120-82-1	1,2,4-Trichlorobenzene	U	367	ug/kg	73.3	367

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	521	ug/kg		J
	Unknown Aldol Condensate	3	349	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490001

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-SMS

Matrix: R
%Moisture: 9.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	5.77	346	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	1500	ug/kg	99	NJ
470-40-6	Thujopsene	5.97	244	ug/kg	83	NJ
77-53-2	Cedrol	6.58	1280	ug/kg	94	NJ
	Unknown	6.89	223	ug/kg		J
	Unknown	8.91	288	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	2420	ug/kg	98	NJ
	Unknown	9.49	188	ug/kg		J
	Unknown	10.06	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	234	ug/kg	95	NJ
35060-26-5	D:B-Friedo-18,19-secolup-19-ene, 3,10-ep	13.24	814	ug/kg	86	NJ
83-47-6	.gamma.-Sitosterol	13.74	251	ug/kg	97	NJ

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Data file : /chem/MSD7.i/s010410.b/s7a0408.d
Lab Smp Id: 243490001 Client Smp ID: RE12-10-7288
Inj Date : 04-JAN-2010 13:34
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490001|937095|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	9.17790	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	309560		40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1144899		40.0000	
* 46 Acenaphthene-d10	164	6.070	6.075	(1.000)	647402		40.0000	
* 67 Phenanthrene-d10	188	7.235	7.240	(1.000)	1236542		40.0000	
* 91 Chrysene-d12	240	9.638	9.643	(1.000)	1130137		40.0000	
* 98 Perylene-d12	264	11.300	11.309	(1.000)	1011361		40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.798)	555849		67.0667	2460
\$ 5 Phenol-d5	99	3.672	3.667	(0.927)	691757		67.3193	2470
\$ 20 Nitrobenzene-d5	82	4.317	4.317	(0.895)	327067		37.2140	1360
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	697490		39.8198	1460
\$ 60 2,4,6-Tribromophenol	329	6.662	6.667	(1.098)	206077		94.4066	3460
\$ 81 p-Terphenyl-d14	244	8.613	8.613	(0.894)	871323		45.9780	1680

ION RATIO REPORT

SV REPORT

Data file: s7a0408.d

Report Date: 01/04/2010 14:37

Lab. ID: 243490001

SampleType: SAMPLE

Injection Date: 04-JAN-2010 13:34

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490001|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

4 Aniline		CAS#: 62-53-3				
66	37654	3.67	3.74	80-120	100	(T)
93	352	3.54	3.74	185-245	1	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	47872	4.32	4.19	80-120	100	(T)
42	30577	4.32	4.19	41-101	64	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	1068	4.82	4.58	80-120	100	(T)
122	169	4.82	4.58	55-115	16	(QT)
77	3833	4.82	4.58	55-115	359	(QT)

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	31085	5.81	5.67	80-120	100	(T)
164	1410	5.81	5.67	3- 63	5	(T)
127	2499	5.81	5.67	6- 66	8	(T)

42 o-Nitroaniline		CAS#: 88-74-4				
65	37580	5.81	5.72	80-120	100	(T)
92	54480	5.81	5.72	36- 96	145	(QT)
138	2331	5.81	5.73	82-142	6	(QT)

43 Dimethylphthalate		CAS#: 131-11-3				
163	113540	6.07	5.83	80-120	100	(T)
164	647402	6.07	5.83	0- 40	570	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	83746	6.07	5.89	80-120	100	(T)
63	1273	6.07	5.89	35- 95	2	(QT)
<hr/>						
50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	83746	6.07	6.19	80-120	100	(T)
89	1481	6.07	6.19	39- 99	2	(QT)
63	1273	6.07	6.18	17- 77	2	(QT)
<hr/>						
51 Diethylphthalate		CAS#: 84-66-2				
149	44471	6.58	6.34	80-120	100	(T)
177	11486	6.58	6.34	0- 52	26	(T)
150	160035	6.58	6.34	0- 42	360	(QT)
<hr/>						
53 Fluorene		CAS#: 86-73-7				
166	8190	6.58	6.48	80-120	100	(T)
165	23123	6.58	6.48	59-119	282	(QT)
167	1818	6.58	6.48	0- 44	22	(T)
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	533	6.66	6.49	80-120	100	(T)
105	3764	6.61	6.49	11- 71	706	(QT)
51	1175	6.66	6.49	34- 94	220	(QT)
<hr/>						
56 p-Nitroaniline		CAS#: 100-01-6				
138	438	6.53	6.48	80-120	100	()
108	1795	6.52	6.48	37- 97	409	(Q)
92	12882	6.58	6.49	12- 72	2935	(QT)
<hr/>						
61 4-Bromophenylphenylether		CAS#: 101-55-3				
248	13515	6.66	6.85	80-120	100	(T)
141	88222	6.66	6.85	42-102	653	(QT)
250	26454	6.66	6.85	68-128	196	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD7.i/s010410.b/s7a0408.d
 Lab Smp Id: 243490001 Client Smp ID: RE12-10-7288
 Inj Date : 04-JAN-2010 13:34
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490001|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270 S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	9.17790	% moisture

Cpnd Variable

Local Compound Variable

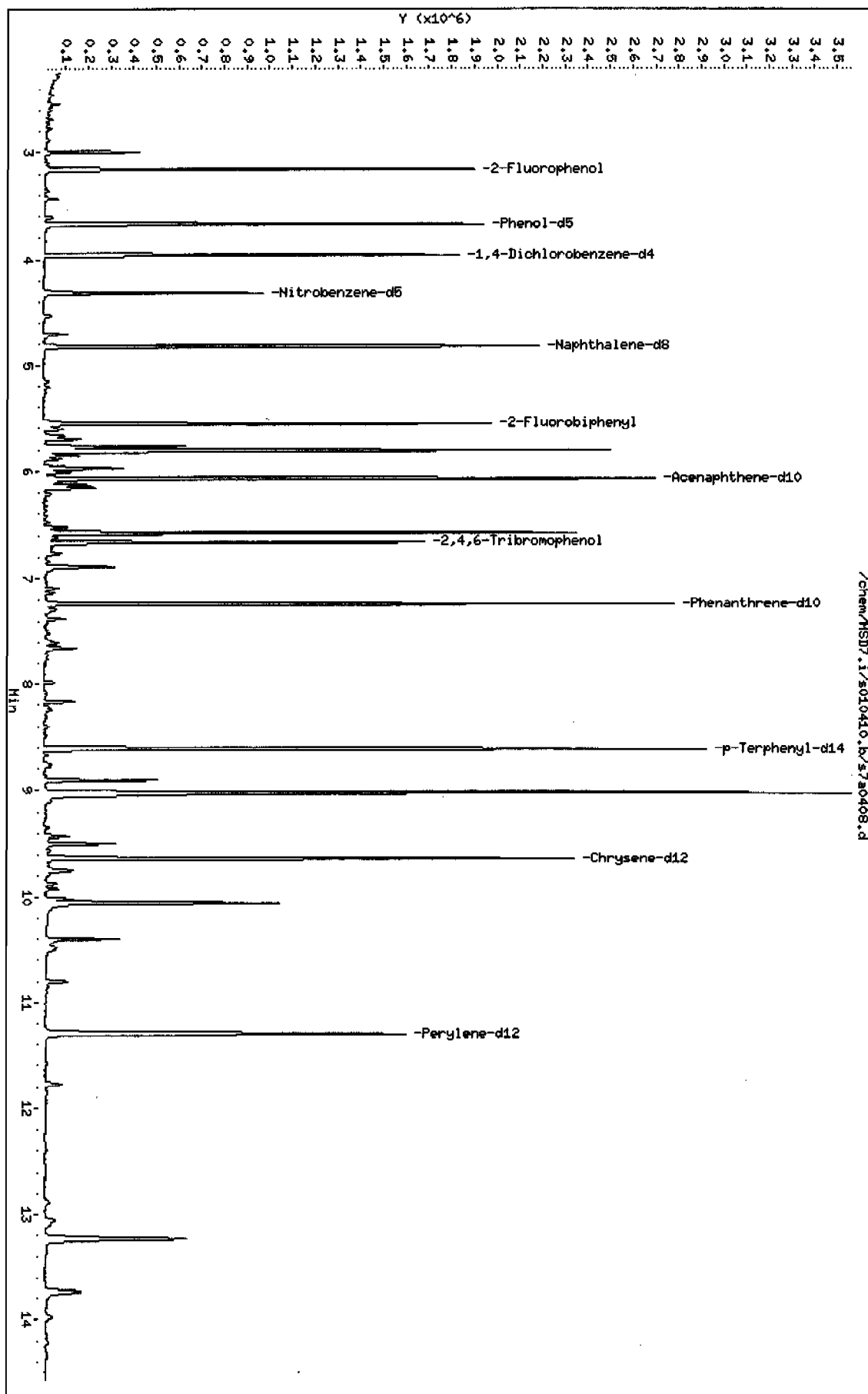
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.961	1853038	40.000
* 46 Acenaphthene-d10	6.070	2824067	40.000
* 67 Phenanthrene-d10	7.235	3069198	40.000
* 91 Chrysene-d12	9.638	3037256	40.000
* 98 Perylene-d12	11.300	2643815	40.000

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

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown					CAS #:		
2.102	657696	14.1971391	520	0		0	10
Unknown Aldol Condensate					CAS #:		
2.998	440337	9.50518022	348	0		0	10
Unknown					CAS #:		
5.772	665527	9.42650156	346	0		0	46
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.805	2886168	40.8795931	1500	99	NIST05.L	60024	46
Thujopsene					CAS #: 470-40-6		
5.969	470012	6.65723681	244	83	NIST05.L	59787	46
Cedrol					CAS #: 77-53-2		
6.576	2470267	34.9887785	1280	94	NIST05.L	72884	46
Unknown					CAS #:		
6.889	466905	6.08504064	223	0		0	67
Unknown					CAS #:		
8.906	596387	7.85429232	288	0		0	91
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
9.017	5012448	66.0128451	2420	98	NIST05.L	116239	91
Unknown					CAS #:		
9.494	389849	5.13421967	188	0		0	91
Unknown					CAS #:		
10.057	1374967	18.1080175	664	0		0	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.399	483570	6.36851398	234	95	NIST05.L	112656	91
D:B-Friedo-18,19-secolup-19-ene, 3,10-ep					CAS #: 35060-26-5		
13.235	1467085	22.1964847	814	86	NIST05.L	176604	98
.gamma.-Sitosterol					CAS #: 83-47-6		
13.736	451993	6.83849435	251	97	NIST05.L	174402	98

Data File: /chem/MSD7.1/s010410.b/s7a0408.d
 Date : 04-JAN-2010 13:34
 Client ID: RE12-10-7288
 Sample Info: 1243490001937096/11SMF11L1LNL
 Volume Injected (uL): 0.6
 Column phase: 3M DB-SHS

Instrument: MSD7.1
 Operator: JHB3
 Column diameter: 0.20



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.1

Sample Info: 1243490001193709511SVHF111LANL

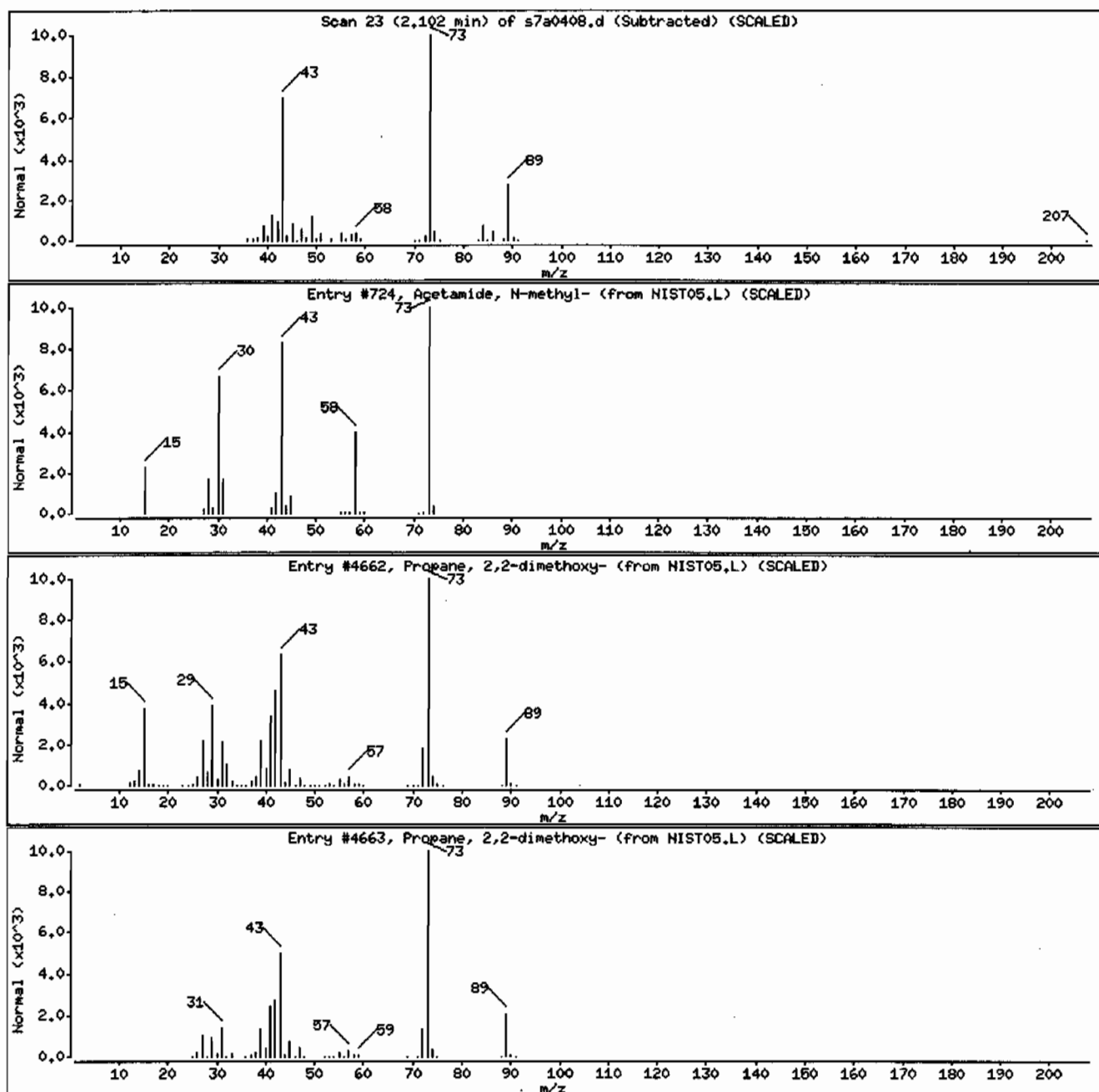
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-6MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N-methyl-	79-16-3	NIST05.L	724	27	C3H7NO	73
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	25	C5H12O2	104
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	25	C5H12O2	104



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: HSD7.i

Sample Info: 124349000193709511ISVHF11LANL

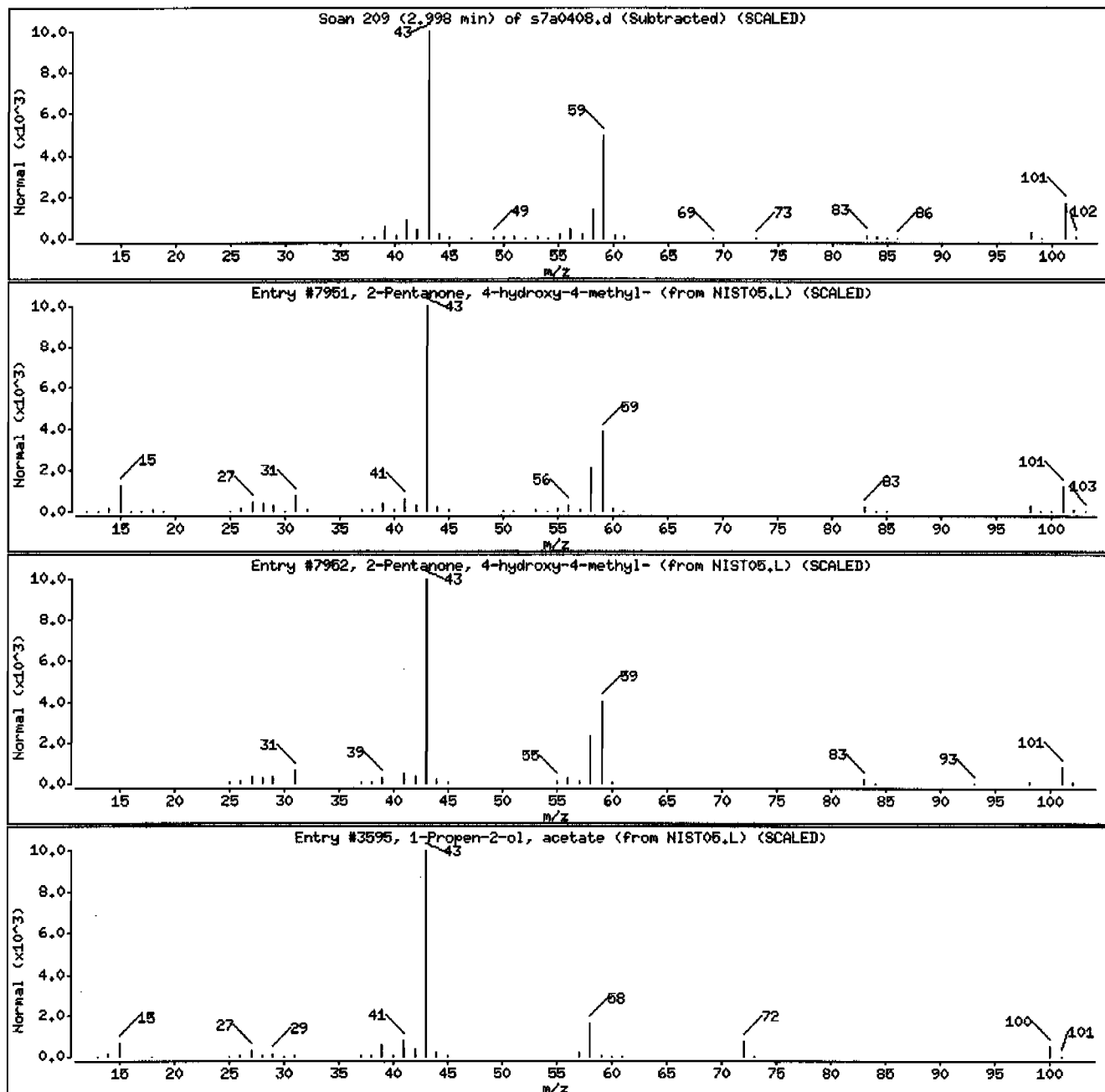
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	45	C6H12O2	116
1-Propen-2-ol, acetate	108-22-5	NIST05.L	3595	10	C5H8O2	100



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.1

Sample Info: 124349000193709511SVMF11ILANL

Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

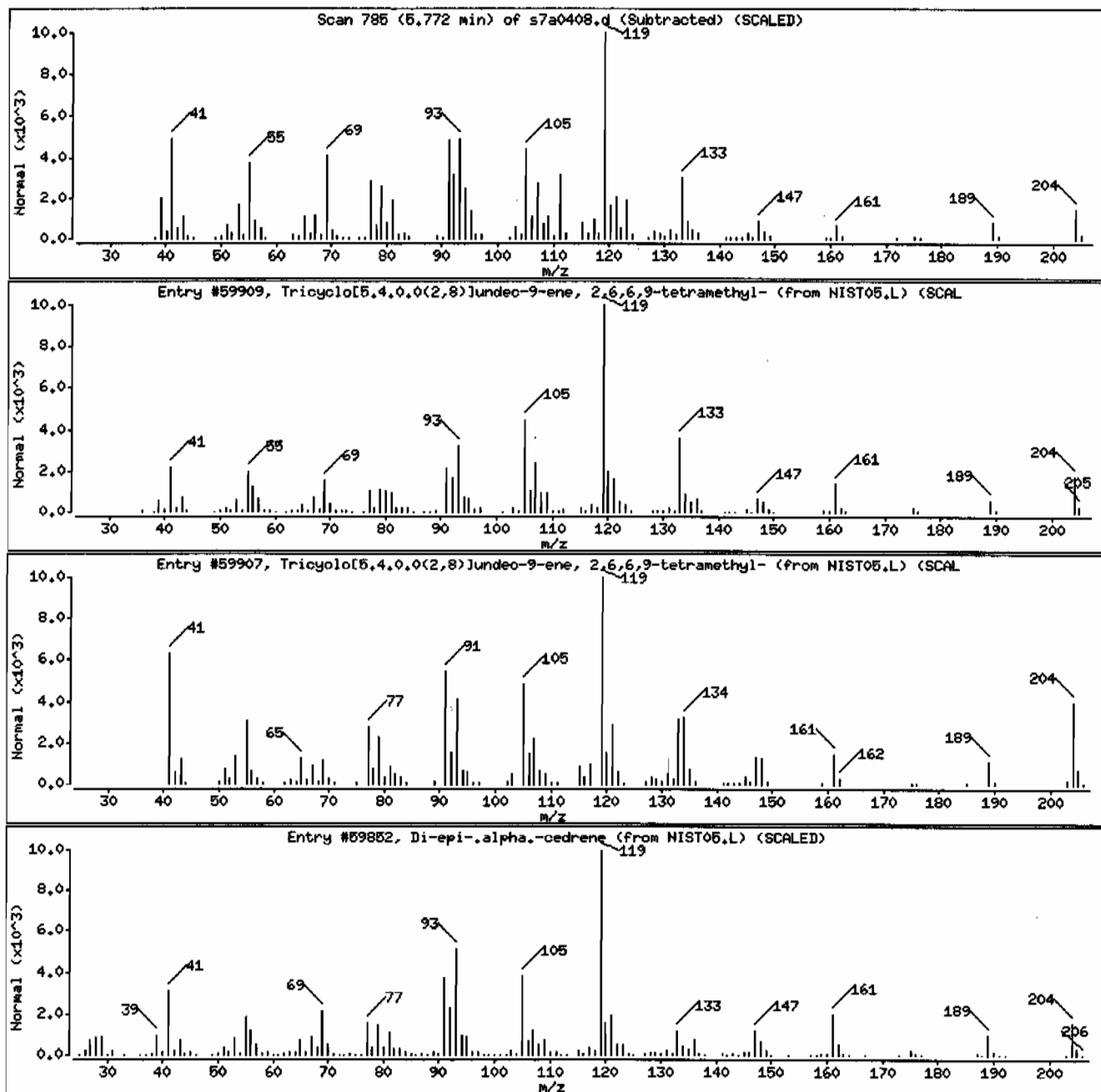
Unknown

Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6

CAS Number	Library	Entry	Quality	Formula	Weight
5989-08-2	NIST05.L	59909	78	C15H24	204
5989-08-2	NIST05.L	59907	76	C15H24	204
1000156-13-3	NIST05.L	59852	62	C15H24	204

Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6

Di-epi-.alpha.-cedrene



Date: 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.1

Sample Info: I24349000193709511SVMF11ILANL

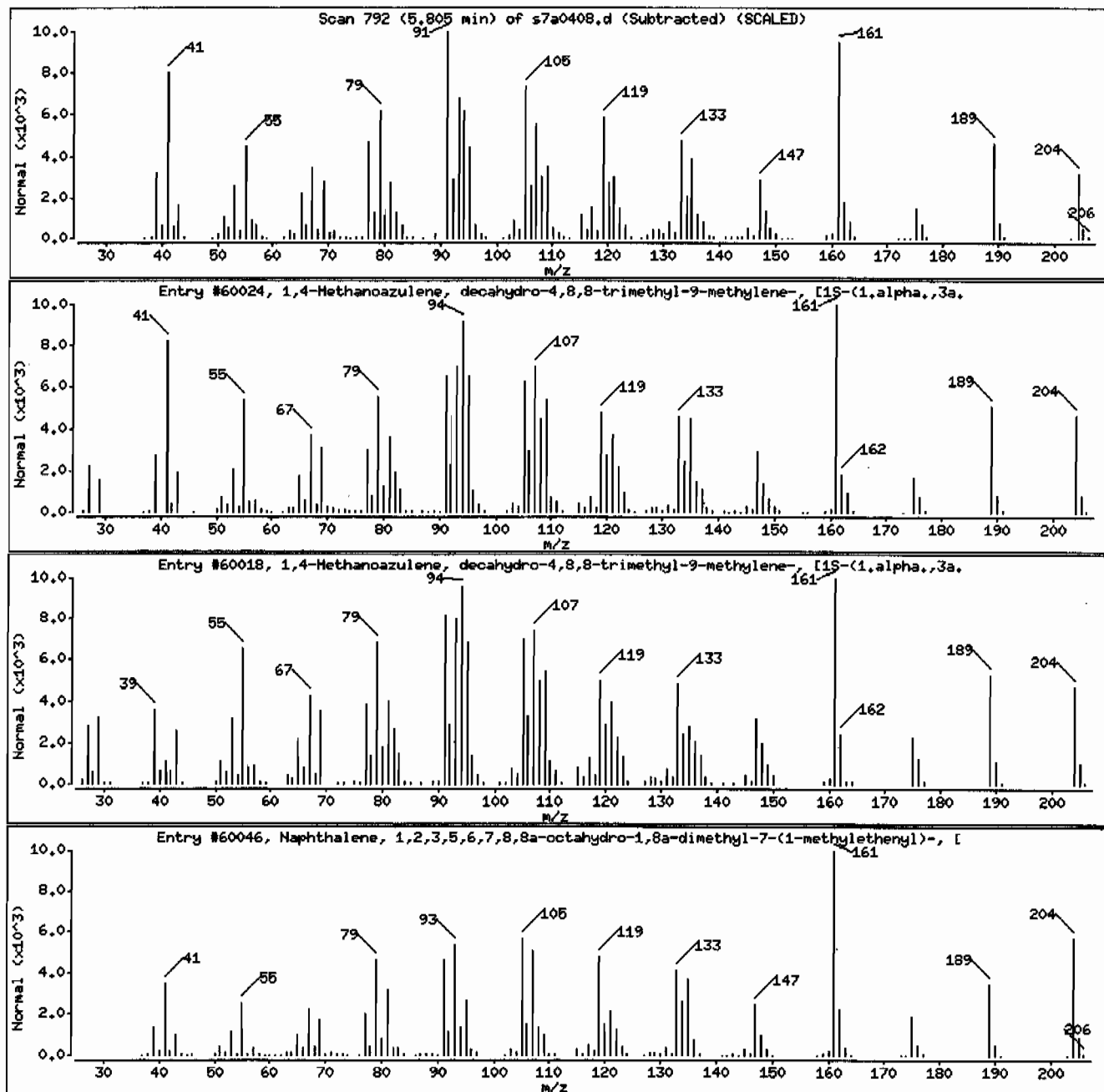
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	98	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	98	C15H24	204



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 124349000193709511SVHF111LANL

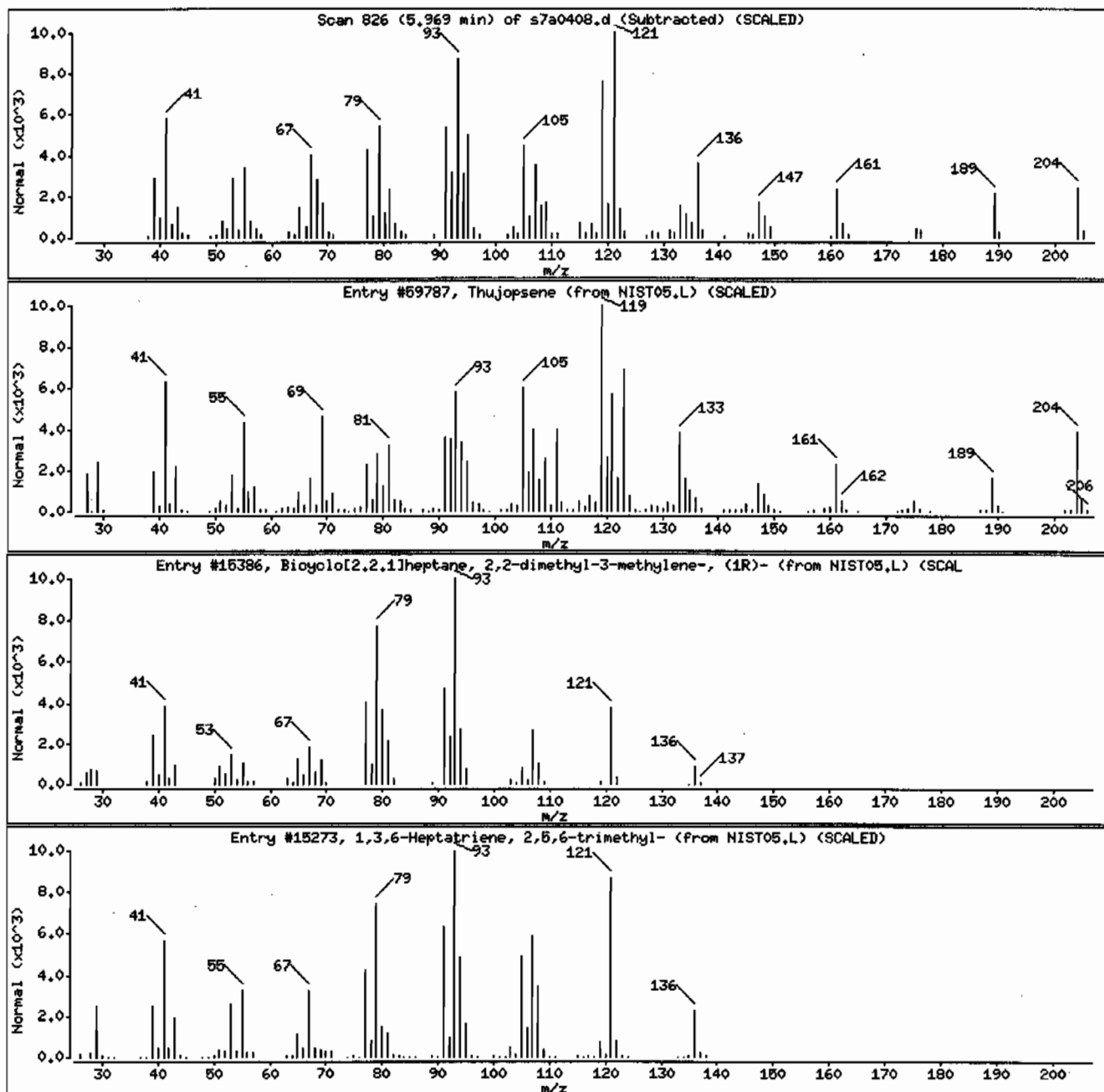
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thujopsene	470-40-6	NIST05.L	59787	83	C15H24	204
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	70	C10H16	136
1,3,6-Heptatriene, 2,5,6-trimethyl-	42123-66-0	NIST05.L	15273	64	C10H16	136



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709611ISVMF11ILANL

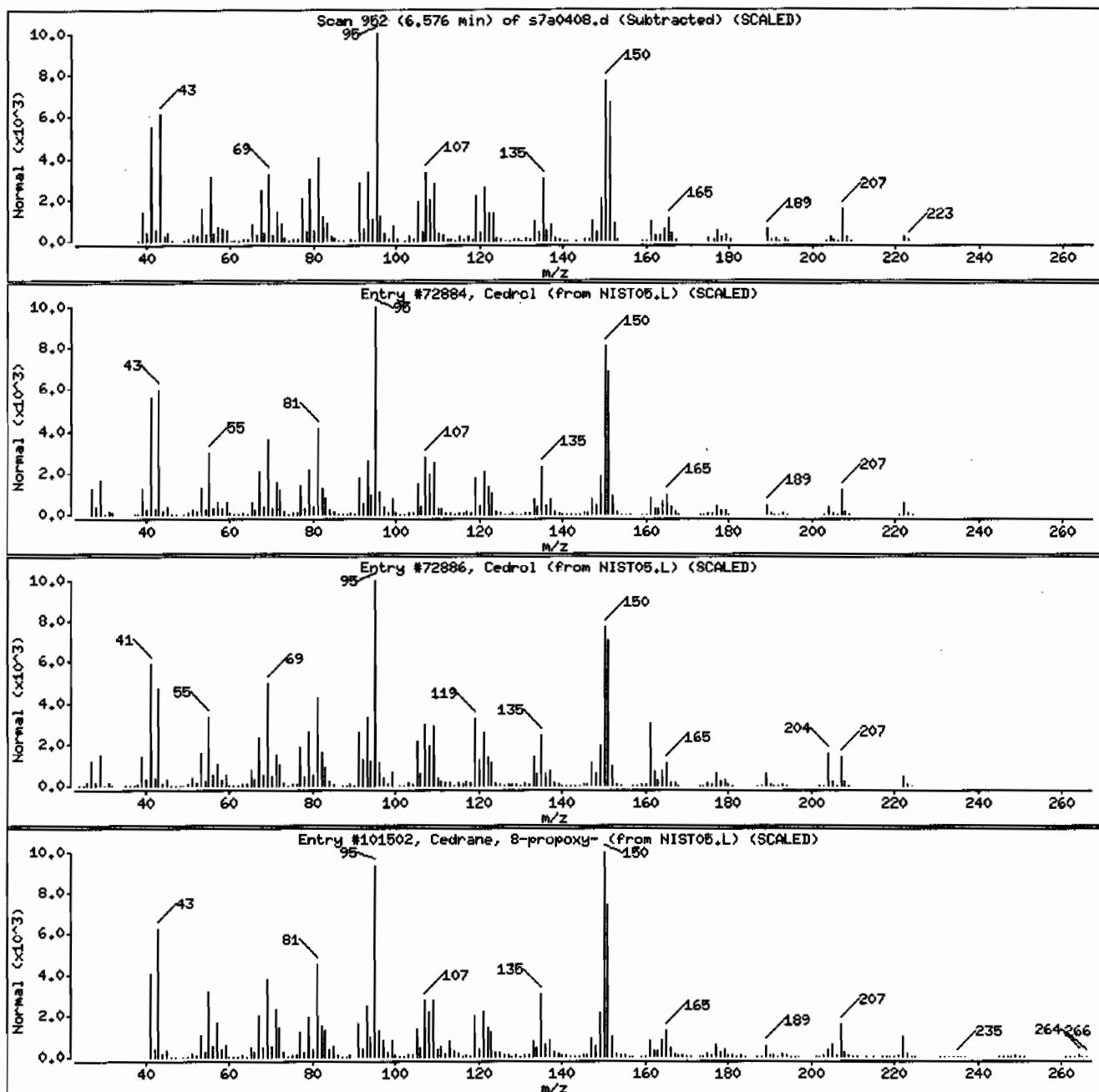
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C ₁₅ H ₂₆ O	222
Cedrol	77-53-2	NIST05.L	72886	91	C ₁₅ H ₂₆ O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	91	C ₁₈ H ₃₂ O	264



Date: 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709511SVHF111LANL

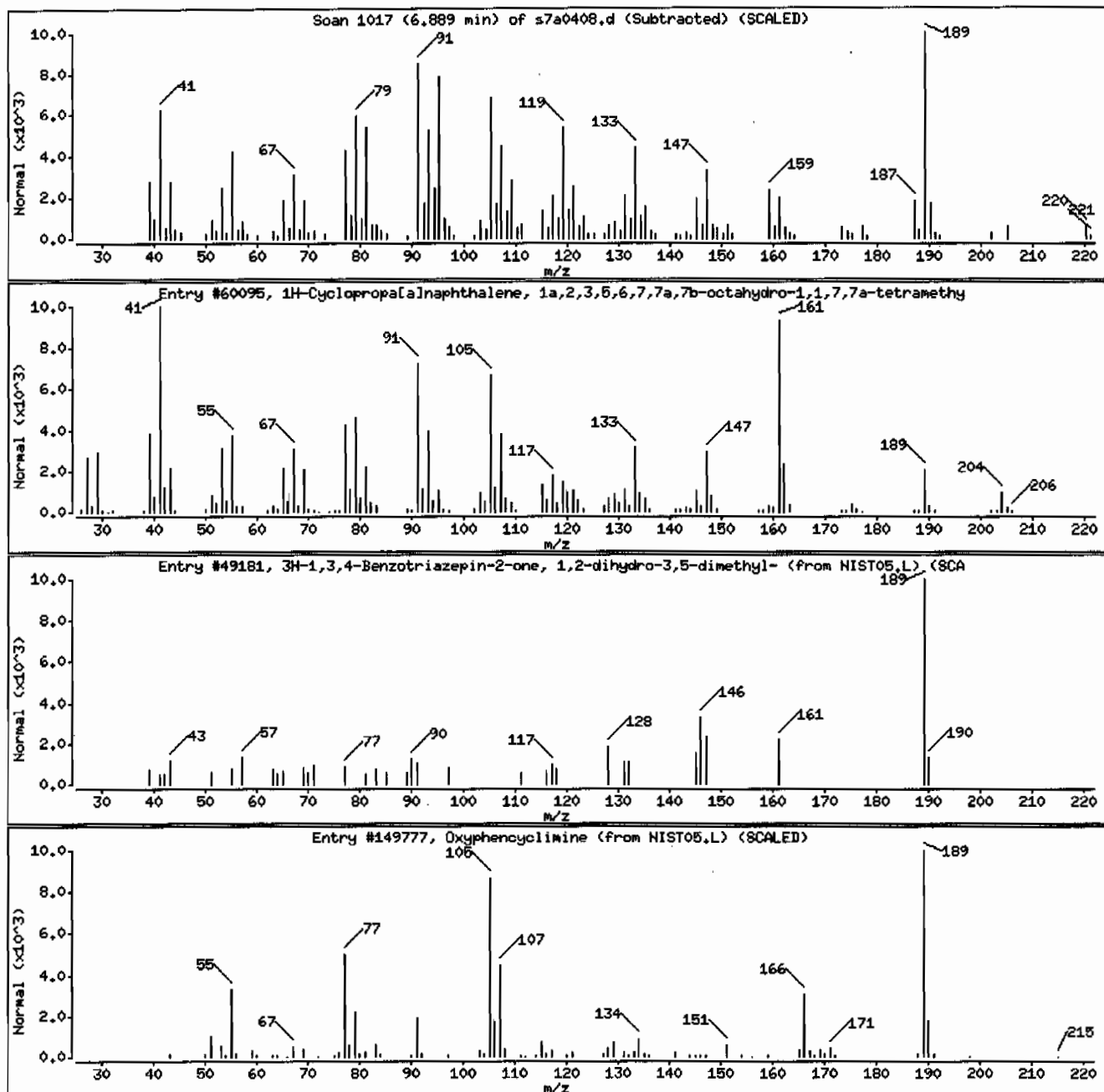
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cyclopropa[a]naphthalene, 1a,2,3,6,6,	17334-55-3	NIST05.L	60095	27	C15H24	204
3H-1,3,4-Benzotriazepin-2-one, 1,2-dihyd	105999-05-1	NIST05.L	49181	18	C10H11N3O	189
Oxyphenacylimine	125-53-1	NIST05.L	149777	18	C20H28N2O3	344



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709511SVHF11ILANL

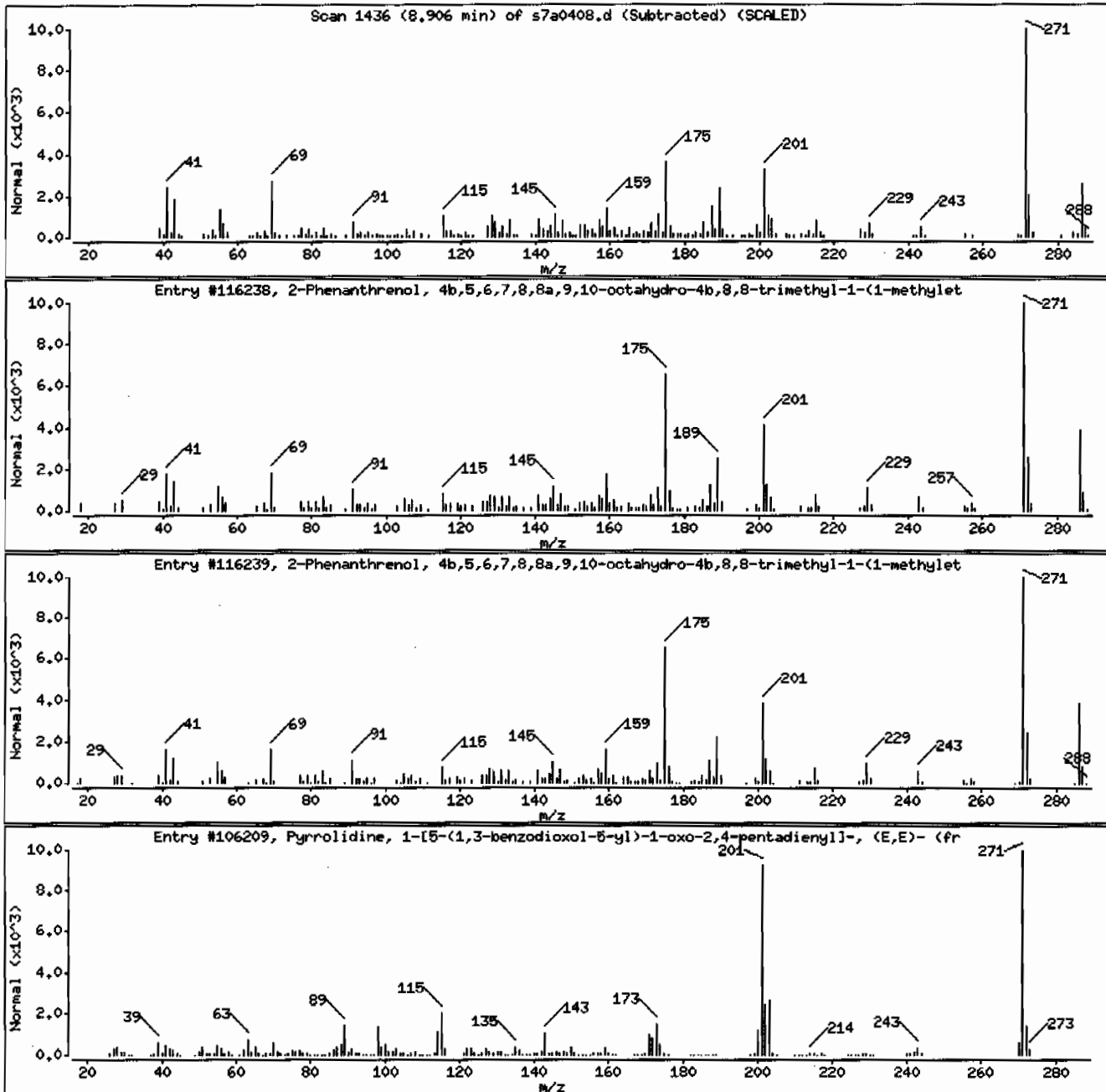
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	94	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	91	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)]	25924-78-1	NIST05.L	106209	43	C16H17NO3	271



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709511SVMF11LANL

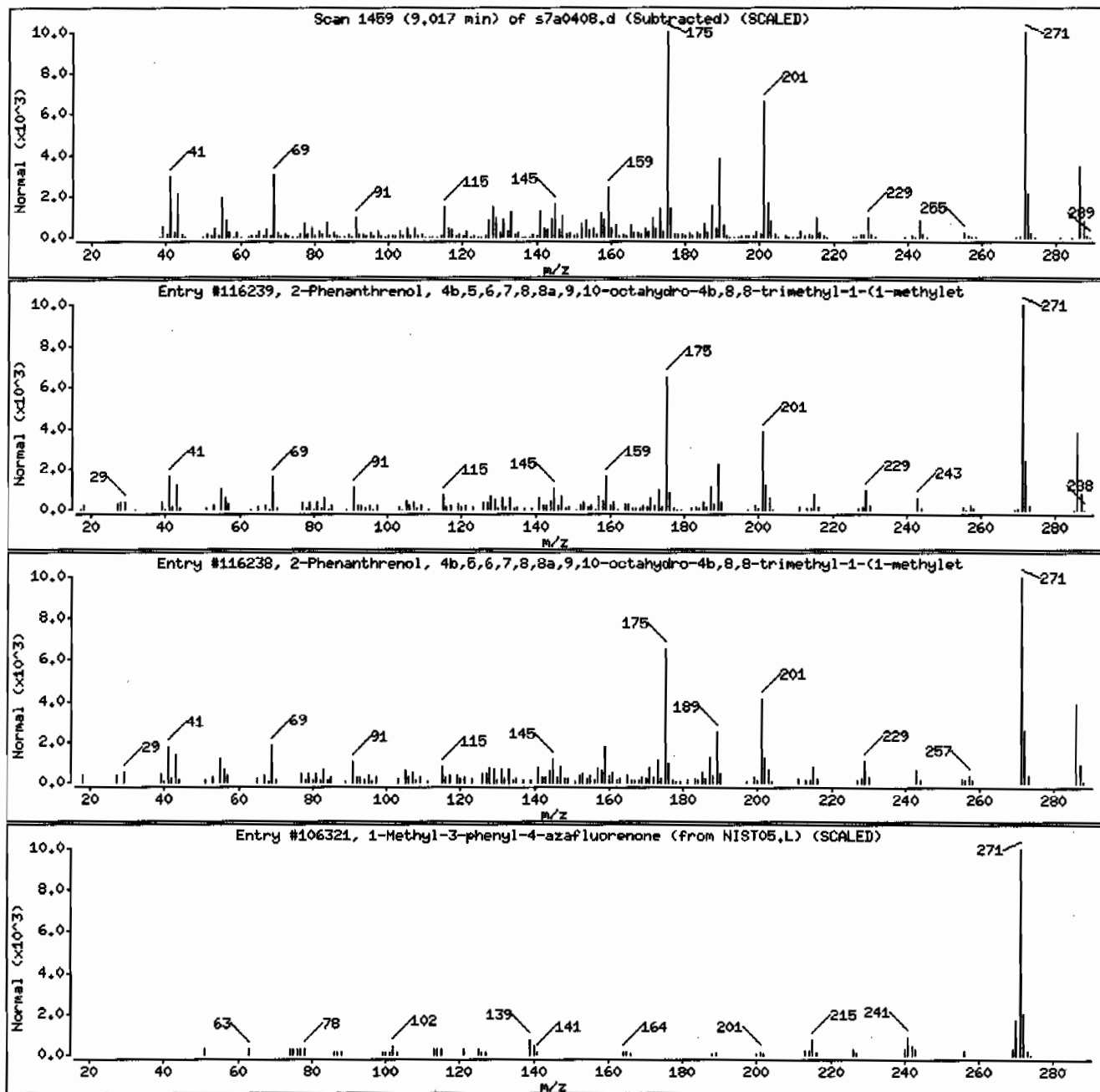
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	98	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	89	C20H30O	286
1-Methyl-3-phenyl-4-azafluorenone	69751-55-9	NIST05.L	106321	22	C19H13NO	271



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 12434900011937095111SVHF111LANL

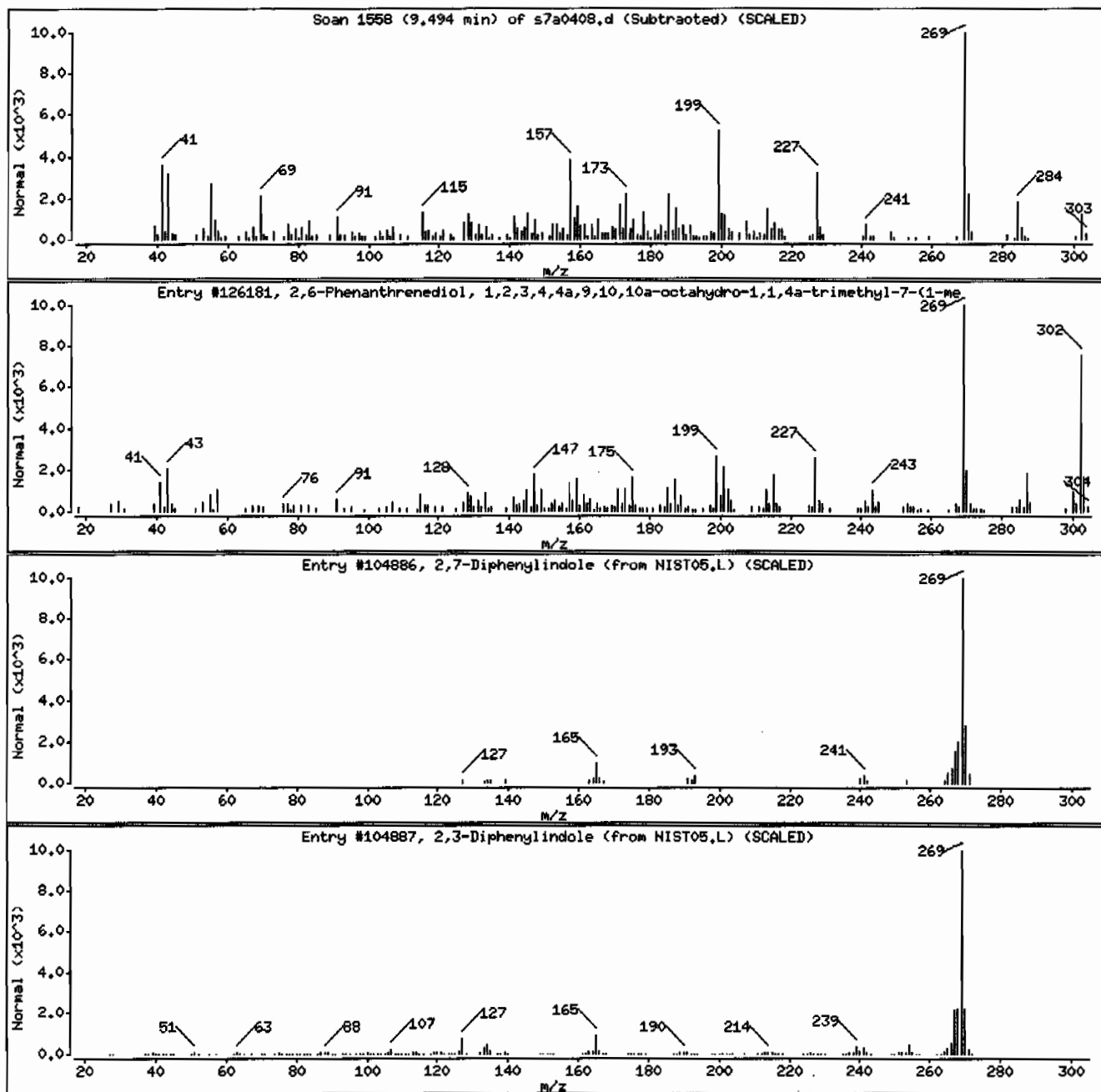
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,6-Phenanthrenediol, 1,2,3,4,4a,9,10,10	564-73-8	NIST05.L	126181	49	C20H30O2	302
2,7-Diphenylindole	1157-17-1	NIST05.L	104886	38	C20H15N	269
2,3-Diphenylindole	3469-20-3	NIST05.L	104887	30	C20H15N	269



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709511SVHF111LANL

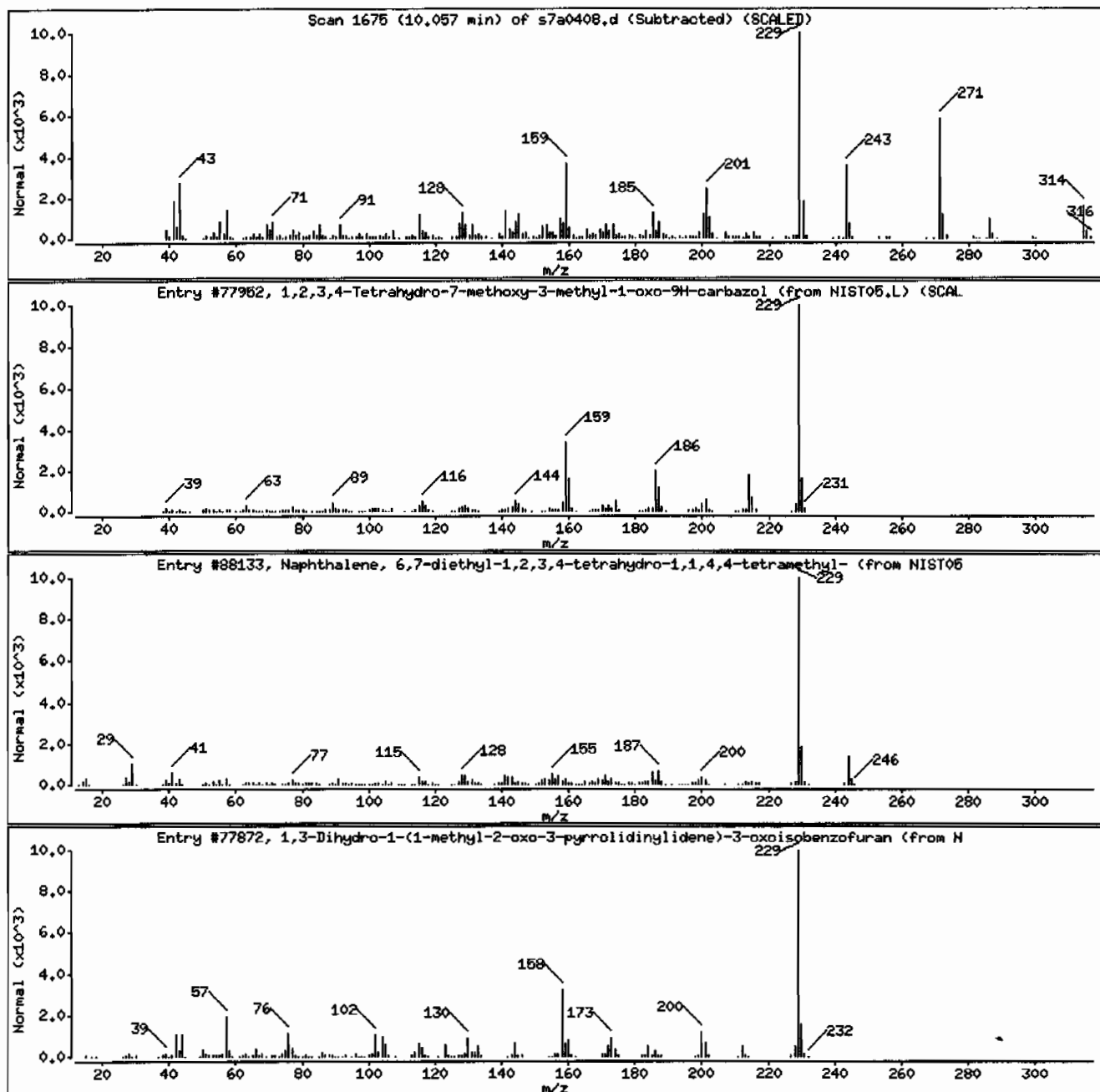
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	32550-51-9	NIST05.L	77962	45	C ₁₄ H ₁₅ N ₀ O ₂	229
1,3-Dihydro-1-(1-methyl-2-oxo-3-pyrrolid	55741-10-1	NIST05.L	88133	42	C ₁₈ H ₂₈	244
	3988-53-2	NIST05.L	77872	35	C ₁₃ H ₁₁ N ₀ O ₃	229



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 1243490001193709511SVHF111LANL

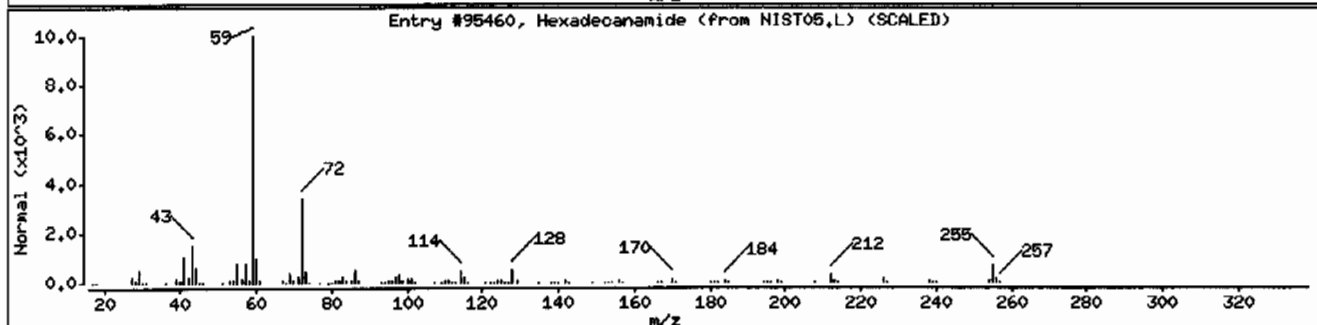
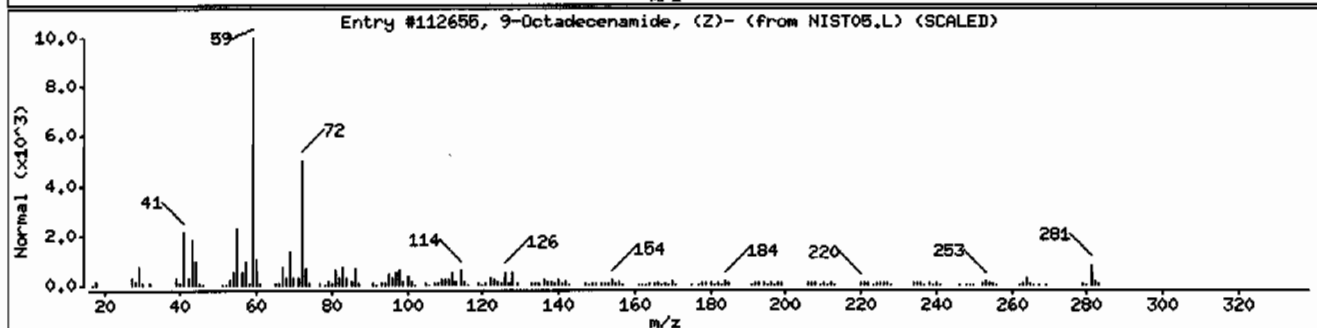
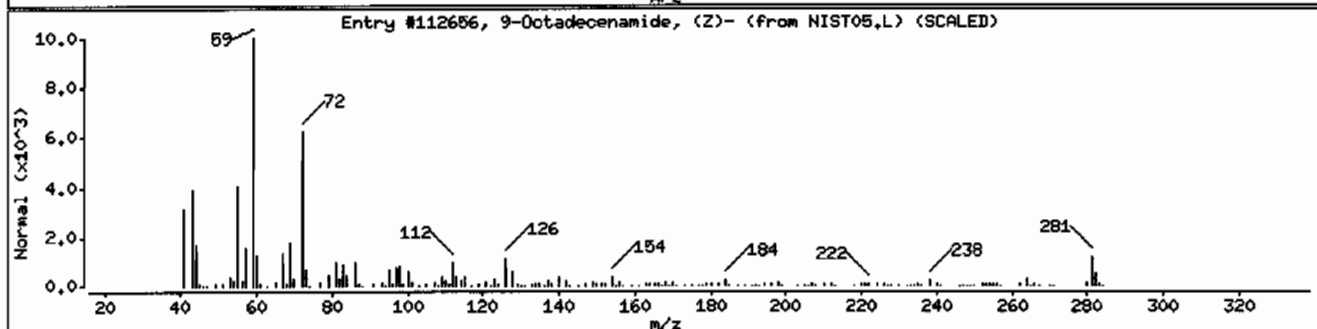
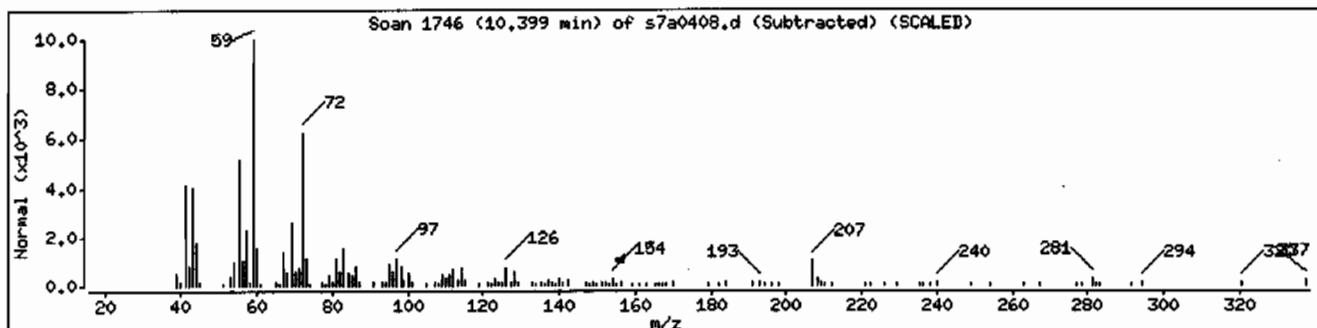
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	96	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	93	C18H35NO	281
Hexadecanamide	629-54-9	NIST05.L	95460	50	C16H33NO	255



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 124349000193709511SVHF111LANL

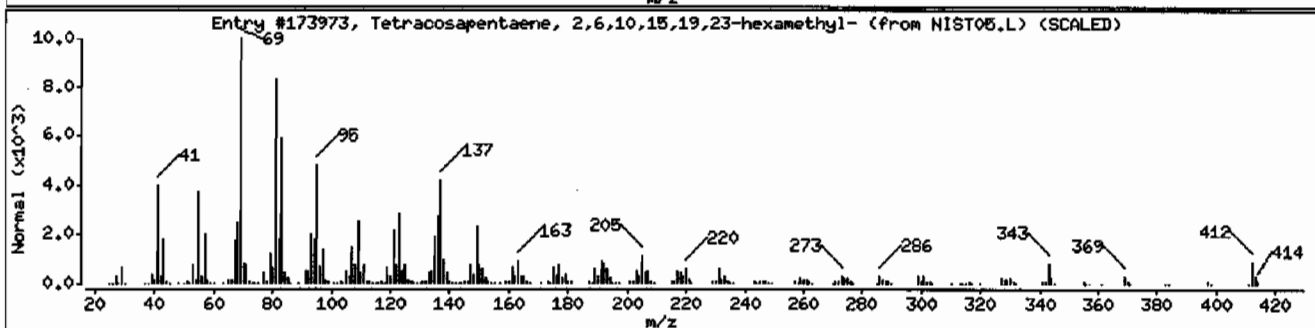
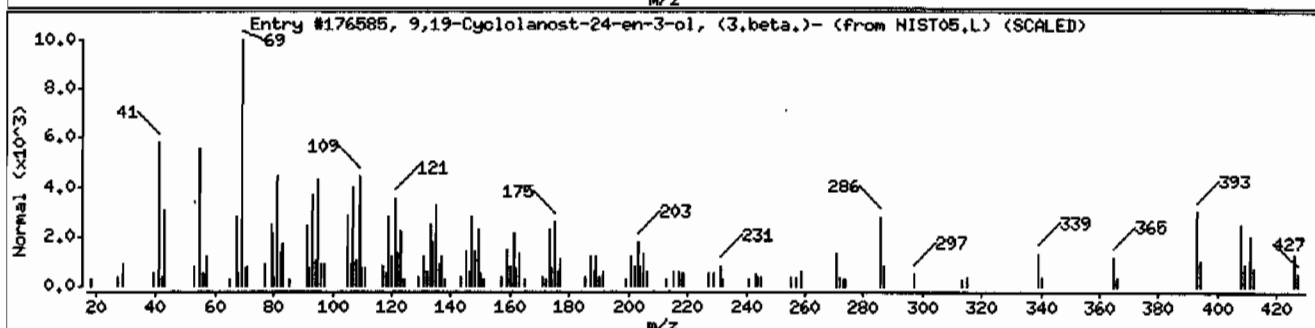
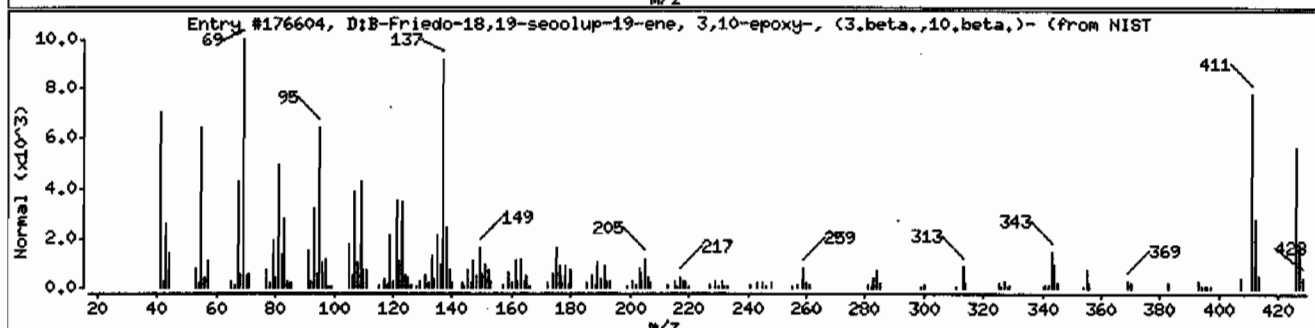
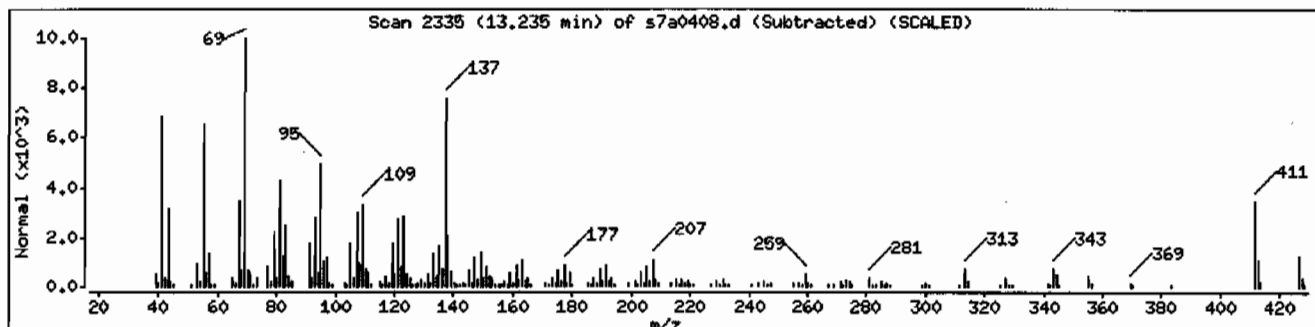
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
DiB-Friedo-18,19-secolup-19-ene, 3,10-ep	35060-26-5	NIST05.L	176604	86	C30H50O	426
9,19-Cyclolanost-24-en-3-ol, (3,beta.)-	469-38-5	NIST05.L	176585	55	C30H50O	426
Tetracosapentaene, 2,6,10,15,19,23-hexam	26266-08-0	NIST05.L	173973	53	C30H52	412



Date : 04-JAN-2010 13:34

Client ID: RE12-10-7288

Instrument: MSD7.i

Sample Info: 124349000193709511SVHF111LANL

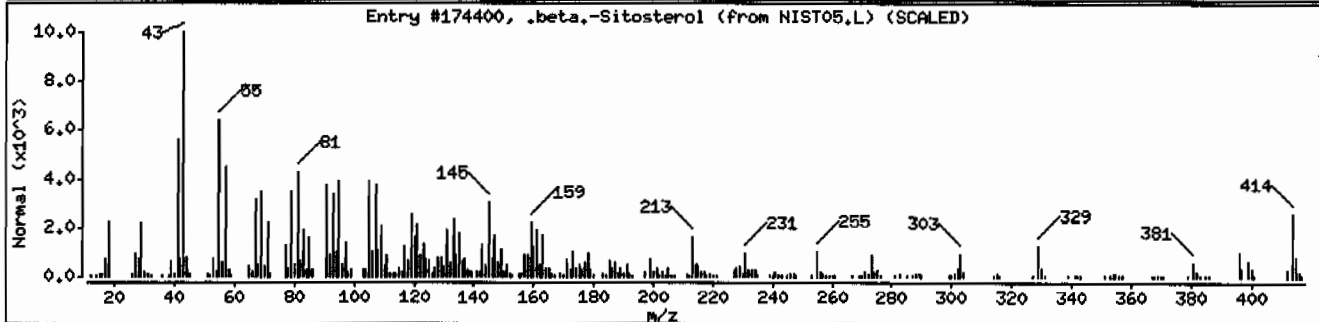
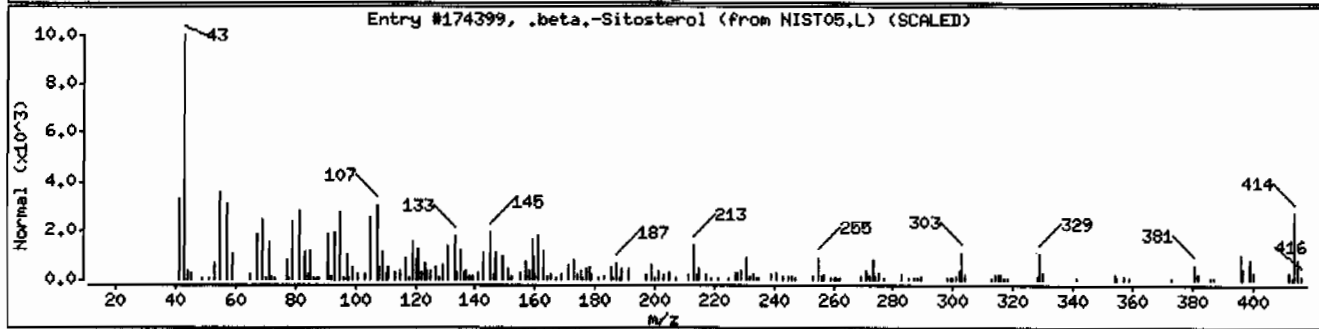
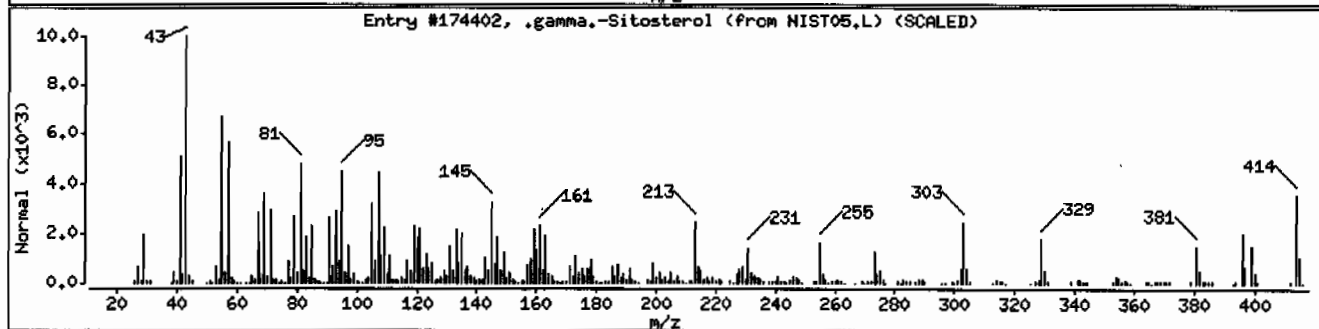
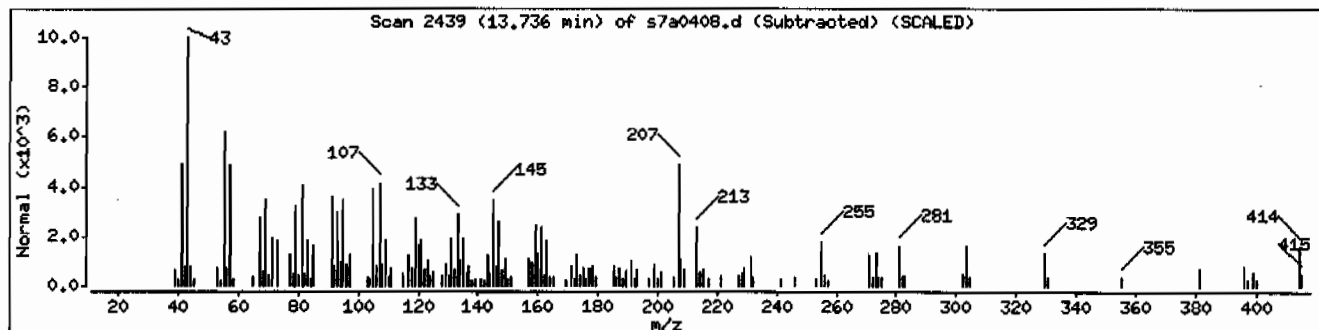
Volume Injected (UL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	97	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	78	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174400	64	C ₂₉ H ₅₀ O	414



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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7289
Batch ID: 937095
Run Date: 01/02/2010 20:48
Prep Date: 12/28/2009 21:32
Data File: s7a0215.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	369	ug/kg	73.9	369
108-95-2	Phenol	U	369	ug/kg	73.9	369
95-57-8	2-Chlorophenol	U	369	ug/kg	73.9	369
106-46-7	1,4-Dichlorobenzene	U	369	ug/kg	73.9	369
621-64-7	N-Nitrosodipropylamine	U	369	ug/kg	73.9	369
59-50-7	4-Chloro-3-methylphenol	U	369	ug/kg	73.9	369
83-32-9	Acenaphthene	U	36.9	ug/kg	12.2	36.9
121-14-2	2,4-Dinitrotoluene	U	369	ug/kg	36.9	369
100-02-7	4-Nitrophenol	U	369	ug/kg	122	369
87-86-5	Pentachlorophenol	U	369	ug/kg	92.4	369
129-00-0	Pyrene	U	36.9	ug/kg	11.1	36.9
110-86-1	Pyridine	U	369	ug/kg	73.9	369
62-53-3	Aniline	U	369	ug/kg	111	369
111-44-4	bis(2-Chloroethyl) ether	U	369	ug/kg	73.9	369
541-73-1	1,3-Dichlorobenzene	U	369	ug/kg	73.9	369
100-51-6	Benzyl alcohol	U	369	ug/kg	111	369
95-50-1	1,2-Dichlorobenzene	U	369	ug/kg	73.9	369
108-60-1	bis(2-Chloroisopropyl)ether	U	369	ug/kg	73.9	369
95-48-7	o-Cresol	U	369	ug/kg	73.9	369
65794-96-9	m,p-Cresols	U	369	ug/kg	111	369
67-72-1	Hexachloroethane	U	369	ug/kg	73.9	369
98-95-3	Nitrobenzene	U	369	ug/kg	73.9	369
78-59-1	Isophorone	U	369	ug/kg	73.9	369
88-75-5	2-Nitrophenol	U	369	ug/kg	73.9	369
105-67-9	2,4-Dimethylphenol	U	369	ug/kg	129	369
111-91-1	bis(2-Chloroethoxy)methane	U	369	ug/kg	73.9	369
120-83-2	2,4-Dichlorophenol	U	369	ug/kg	73.9	369
65-85-0	Benzoic acid	U	739	ug/kg	185	739
91-20-3	Naphthalene	U	36.9	ug/kg	11.1	36.9
106-47-8	4-Chloroaniline	U	369	ug/kg	73.9	369
87-68-3	Hexachlorobutadiene	U	369	ug/kg	73.9	369
91-57-6	2-Methylnaphthalene	U	36.9	ug/kg	7.39	36.9
77-47-4	Hexachlorocyclopentadiene	U	369	ug/kg	73.9	369
88-06-2	2,4,6-Trichlorophenol	U	369	ug/kg	73.9	369
95-95-4	2,4,5-Trichlorophenol	U	369	ug/kg	73.9	369
91-58-7	2-Chloronaphthalene	U	36.9	ug/kg	12.2	36.9
88-74-4	2-Nitroaniline	U	369	ug/kg	73.9	369
99-09-2	<i>o</i> -Nitroaniline 3-Nitroaniline	U	369	ug/kg	73.9	369

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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	369	ug/kg	73.9	369
606-20-2	2,6-Dinitrotoluene	U	369	ug/kg	36.9	369
208-96-8	Acenaphthylene	U	36.9	ug/kg	11.1	36.9
51-28-5	2,4-Dinitrophenol	U	739	ug/kg	140	739
132-64-9	Dibenzofuran	U	369	ug/kg	73.9	369
84-66-2	Diethylphthalate	U	369	ug/kg	73.9	369
86-73-7	Fluorene	U	36.9	ug/kg	11.1	36.9
7005-72-3	4-Chlorophenylphenylether	U	369	ug/kg	73.9	369
534-52-1	2-Methyl-4,6-dinitrophenol	U	369	ug/kg	73.9	369
100-01-6	4-Nitroaniline	U	369	ug/kg	111	369
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	369	ug/kg	73.9	369
122-66-7	Azobenzene	U	369	ug/kg	73.9	369
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	369	ug/kg	73.9	369
118-74-1	Hexachlorobenzene	U	369	ug/kg	73.9	369
85-01-8	Phenanthrene	U	36.9	ug/kg	11.1	36.9
120-12-7	Anthracene	U	36.9	ug/kg	7.39	36.9
84-74-2	Di-n-butylphthalate	U	369	ug/kg	73.9	369
206-44-0	Fluoranthene	U	36.9	ug/kg	11.1	36.9
85-68-7	Butylbenzylphthalate	U	369	ug/kg	73.9	369
56-55-3	Benzo(a)anthracene	U	36.9	ug/kg	11.1	36.9
91-94-1	3,3'-Dichlorobenzidine	U	369	ug/kg	111	369
218-01-9	Chrysene	U	36.9	ug/kg	11.1	36.9
117-81-7	bis(2-Ethylhexyl)phthalate	U	369	ug/kg	73.9	369
117-84-0	Di-n-octylphthalate	U	369	ug/kg	73.9	369
205-99-2	Benzo(b)fluoranthene	U	36.9	ug/kg	11.1	36.9
207-08-9	Benzo(k)fluoranthene	U	36.9	ug/kg	11.1	36.9
50-32-8	Benzo(a)pyrene	U	36.9	ug/kg	11.1	36.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.9	ug/kg	11.1	36.9
53-70-3	Dibenzo(a,h)anthracene	U	36.9	ug/kg	11.1	36.9
191-24-2	Benzo(ghi)perylene	U	36.9	ug/kg	11.1	36.9
120-82-1	1,2,4-Trichlorobenzene	U	369	ug/kg	73.9	369

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	213	ug/kg		J
	Unknown Aldol Condensate	3	272	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.04 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 9.9
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
5989-08-2	Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5.77	206	ug/kg	91	NJ
4630-07-3	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	5.81	1370	ug/kg	98	NJ
	Unknown	5.97	174	ug/kg		J
77-53-2	Cedrol	6.58	1490	ug/kg	94	NJ
	Unknown	6.89	221	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	8.9	172	ug/kg	98	NJ
	Unknown	9.01	2230	ug/kg		J
	Unknown	10.05	664	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	187	ug/kg	95	NJ
	Unknown	13.22	271	ug/kg		J

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Data file : /chem/MSD7.i/s010210.b/s7a0215.d
 Lab Smp Id: 243490003 Client Smp ID: RE12-10-7289
 Inj Date : 02-JAN-2010 20:48
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490003|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.04000	weight of sample
M	9.89310	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	267354	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	987624	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	557843	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.236	(1.000)	1085632	40.0000	
* 91 Chrysene-d12	240	9.634	9.638	(1.000)	1147439	40.0000	
* 98 Perylene-d12	264	11.290	11.295	(1.000)	991410	40.0000	
\$ 3 2-Fluorophenol	112	3.167	3.152	(0.798)	452683	63.2415	2340
\$ 5 Phenol-d5	99	3.672	3.672	(0.926)	572360	64.4932	2380
\$ 20 Nitrobenzene-d5	82	4.317	4.322	(0.895)	264224	34.8512	1290
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	557312	36.9251	1360
\$ 60 2,4,6-Tribromophenol	329	6.662	6.667	(1.098)	160347	85.2503	3150
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.894)	773821	40.2173	1480

ION RATIO REPORT

SV REPORT

Data file: s7a0215.d

Report Date: 01/04/2010 08:14

Lab. ID: 243490003

SampleType: SAMPLE

Injection Date: 02-JAN-2010 20:48

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490003|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	30703	3.67	3.74	80-120	100	(T)
93	893	3.74	3.74	221-281	3	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	39005	4.32	4.19	80-120	100	(T)
42	24372	4.32	4.19	43-103	62	(T)

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	24674	5.81	5.67	80-120	100	(T)
164	1017	5.81	5.67	3- 63	4	(T)
127	1934	5.81	5.67	7- 67	8	(T)

42 o-Nitroaniline		CAS#: 88-74-4				
65	29476	5.81	5.72	80-120	100	(T)
92	41102	5.81	5.72	34- 94	139	(QT)
138	1894	5.81	5.72	77-137	6	(QT)

43 Dimethylphthalate		CAS#: 131-11-3				
163	98162	6.07	5.83	80-120	100	(T)
164	557843	6.07	5.83	0- 40	568	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	73035	6.07	5.88	80-120	100	(T)
63	993	6.07	5.88	35- 95	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
50 2,4-Dinitrotoluene				CAS#: 121-14-2		
165	73035	6.07	6.18	80-120	100	(T)
89	1189	6.07	6.18	43-103	2	(QT)
63	993	6.07	6.18	20- 80	1	(QT)
<hr/>						
51 Diethylphthalate				CAS#: 84-66-2		
149	43659	6.58	6.34	80-120	100	(T)
177	11461	6.58	6.34	0- 52	26	(T)
150	159540	6.58	6.34	0- 42	365	(QT)
<hr/>						
53 Fluorene				CAS#: 86-73-7		
166	7569	6.58	6.48	80-120	100	(T)
165	22013	6.58	6.48	60-120	291	(QT)
167	2089	6.58	6.48	0- 44	28	(T)
<hr/>						
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	361	6.66	6.49	80-120	100	(T)
105	2869	6.61	6.49	13- 73	794	(QT)
51	1306	6.66	6.49	48-108	362	(QT)
<hr/>						
56 p-Nitroaniline				CAS#: 100-01-6		
138	451	6.52	6.48	80-120	100	()
108	1336	6.52	6.48	41-101	296	(Q)
92	808	6.52	6.48	16- 76	179	(Q)
<hr/>						
61 4-Bromophenylphenylether				CAS#: 101-55-3		
248	10011	6.66	6.85	80-120	100	(T)
141	66720	6.66	6.85	45-105	666	(QT)
250	19796	6.66	6.85	70-130	198	(QT)

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD7.i/s010210.b/s7a0215.d
 Lab Smp Id: 243490003 Client Smp ID: RE12-10-7289
 Inj Date : 02-JAN-2010 20:48
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490003|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270 S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.04000	weight of sample
M	9.89310	% moisture

Cpnd Variable Local Compound Variable

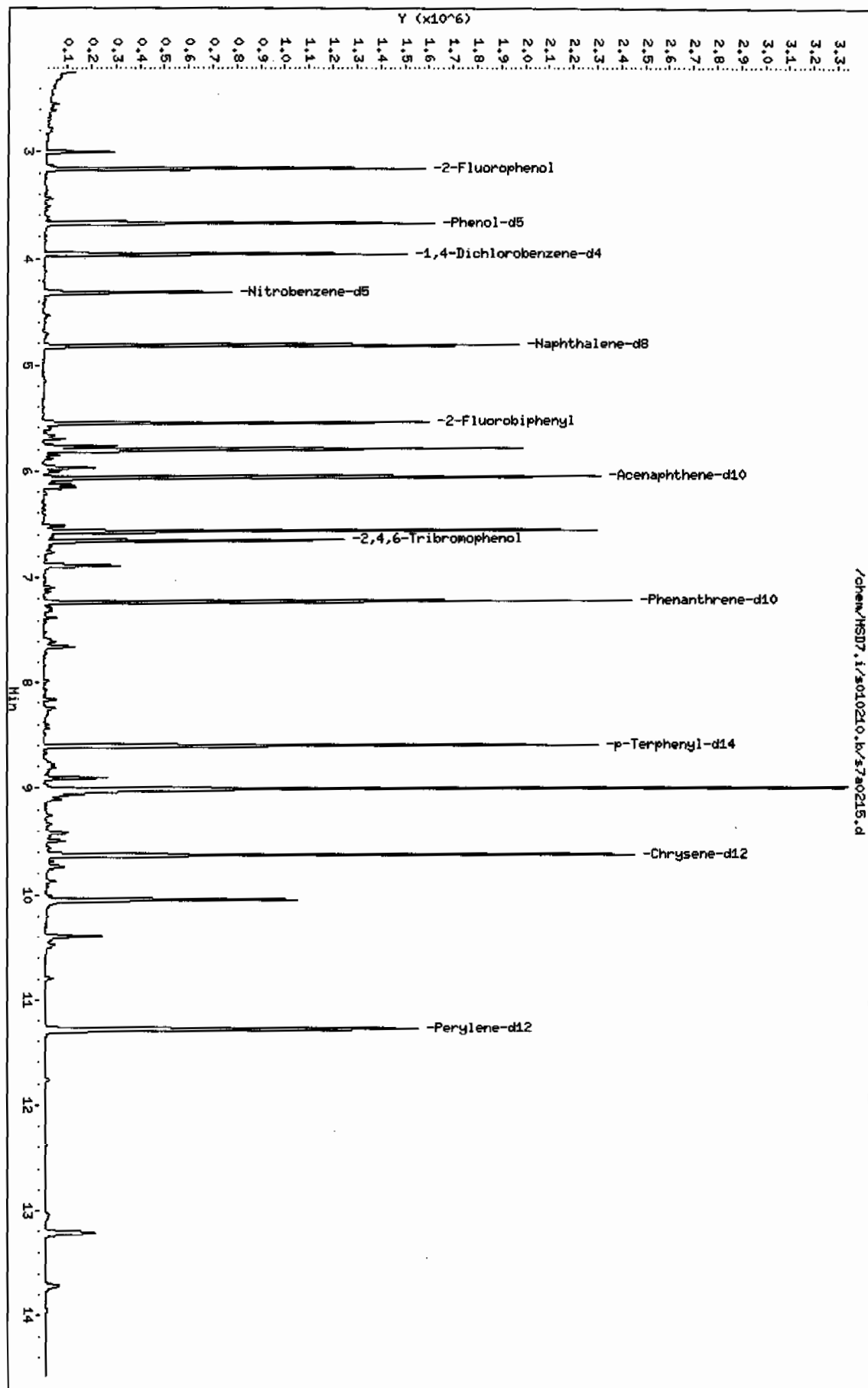
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	3.966	1611065	40.000
* 46 Acenaphthene-d10	6.070	2433274	40.000
* 67 Phenanthrene-d10	7.236	2681428	40.000
* 91 Chrysene-d12	9.634	3001916	40.000
* 98 Perylene-d12	11.290	2572517	40.000

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

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown					CAS #:		
2.107	232759	5.77901679	213	0		0	10
Unknown Aldol Condensate					CAS #:		
3.003	296264	7.35572689	272	0		0	10
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6					CAS #: 5989-08-2		
5.772	338396	5.56280862	206	91	NIST05.L	59909	46
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-					CAS #: 4630-07-3		
5.805	2249440	36.9779975	1370	98	NIST05.L	60047	46
Unknown					CAS #:		
5.969	287222	4.72158024	174	0		0	46
Cedrol					CAS #: 77-53-2		
6.576	2454231	40.3445109	1490	94	NIST05.L	72884	46
Unknown					CAS #:		
6.889	401879	5.99499119	221	0		0	67
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
8.902	349355	4.65509768	172	98	NIST05.L	116238	91
Unknown					CAS #:		
9.012	4530758	60.3715351	2230	0		0	91
Unknown					CAS #:		
10.052	1348057	17.9626224	664	0		0	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.394	380747	5.07338418	187	95	NIST05.L	112656	91
Unknown					CAS #:		
13.216	472061	7.34007064	271	0		0	98

Data File: /chem/HSD7.1/s010210.b/s7a0215.d
Date : 02-JAN-2010 20:48
Client ID: RE12-10-7289
Sample Info: 12434900031937095141SWF111LNL
Volume Injected (uL): 0.5
Column Phase: 3M DB-SHS

Instrument: HSD7.1
Operator: JHB3
Column diameter: 0.20



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7,i

Sample Info: 1243490003193709511ISVMF111LANL

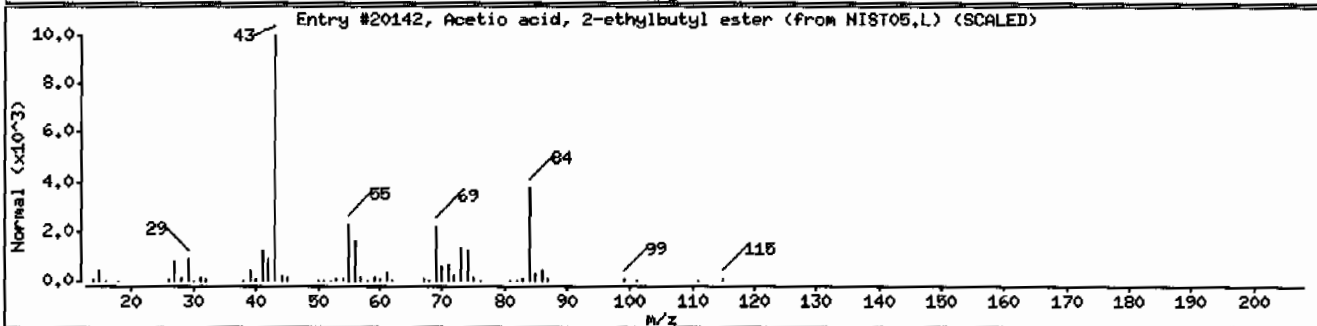
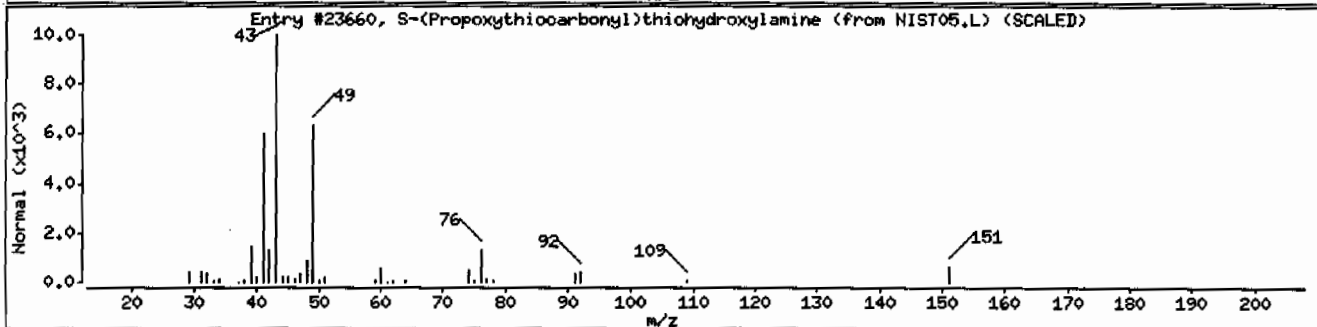
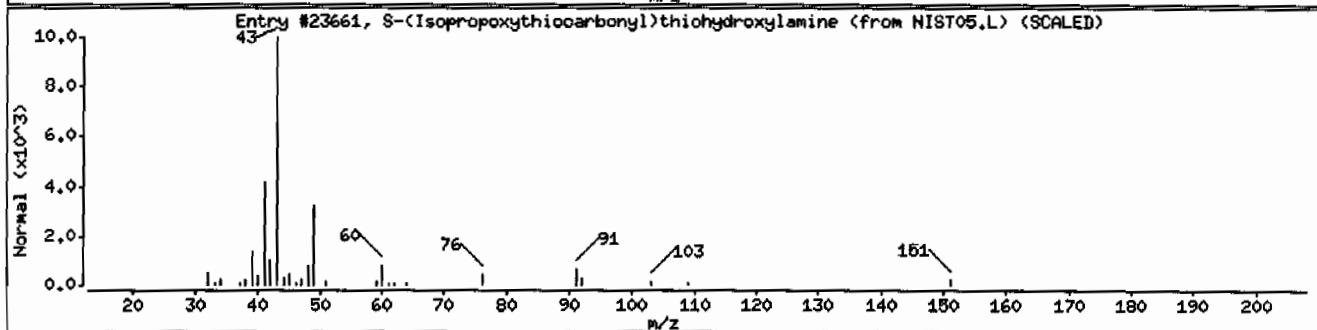
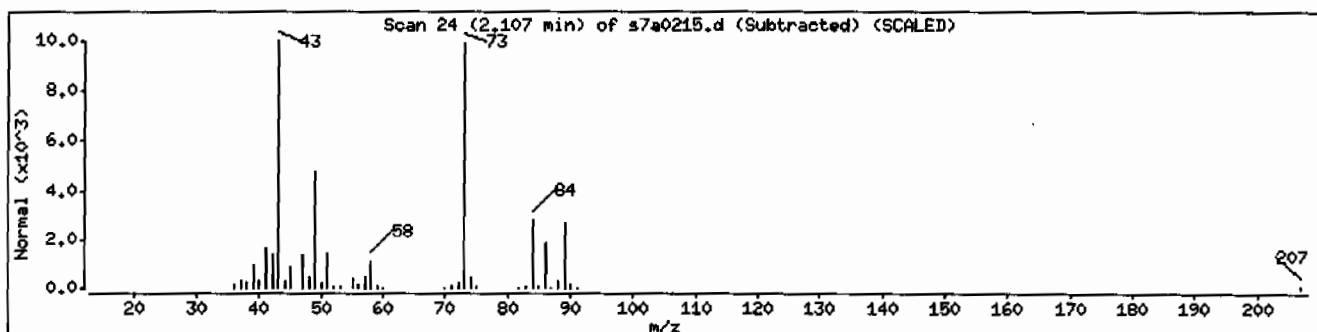
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
S-(Isopropoxythiocarbonyl)thiohydroxylam	35659-80-4	NIST05.L	23661	9	C4H9NOS2	151
S-(Propoxythiocarbonyl)thiohydroxylamine	35659-79-1	NIST05.L	23660	9	C4H9NOS2	151
Acetic acid, 2-ethylbutyl ester	10031-87-5	NIST05.L	20142	9	C8H16O2	144



Date: 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 12434900031937095111SVMF111LANL

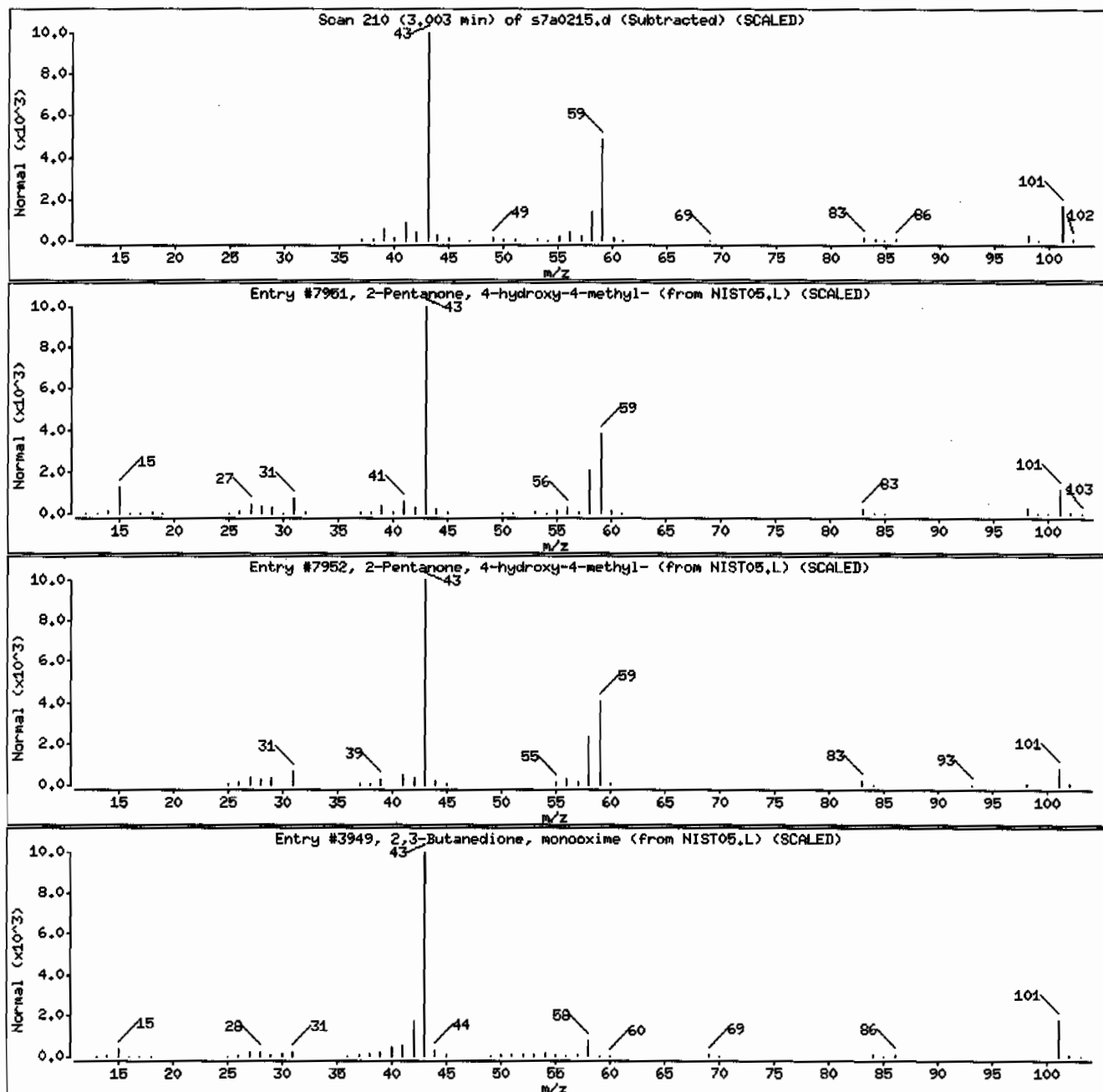
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3949	30	C4H7NO2	101



Date: 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 12434900031937095111SVHF111LANL

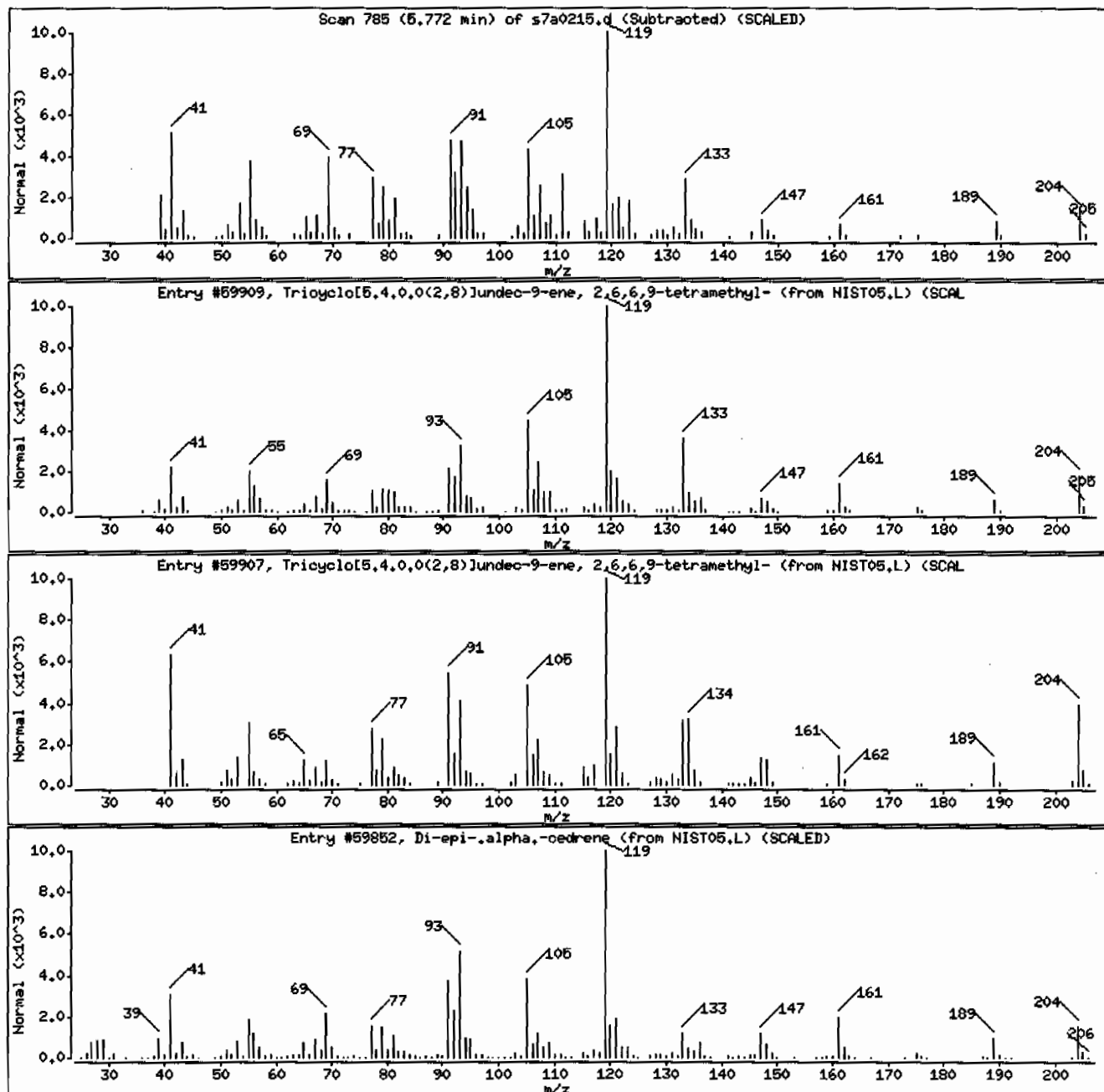
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	91	C15H24	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59907	86	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	58	C15H24	204



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: HSD7.i

Sample Info: 1243490003193709511SVHF111LANL

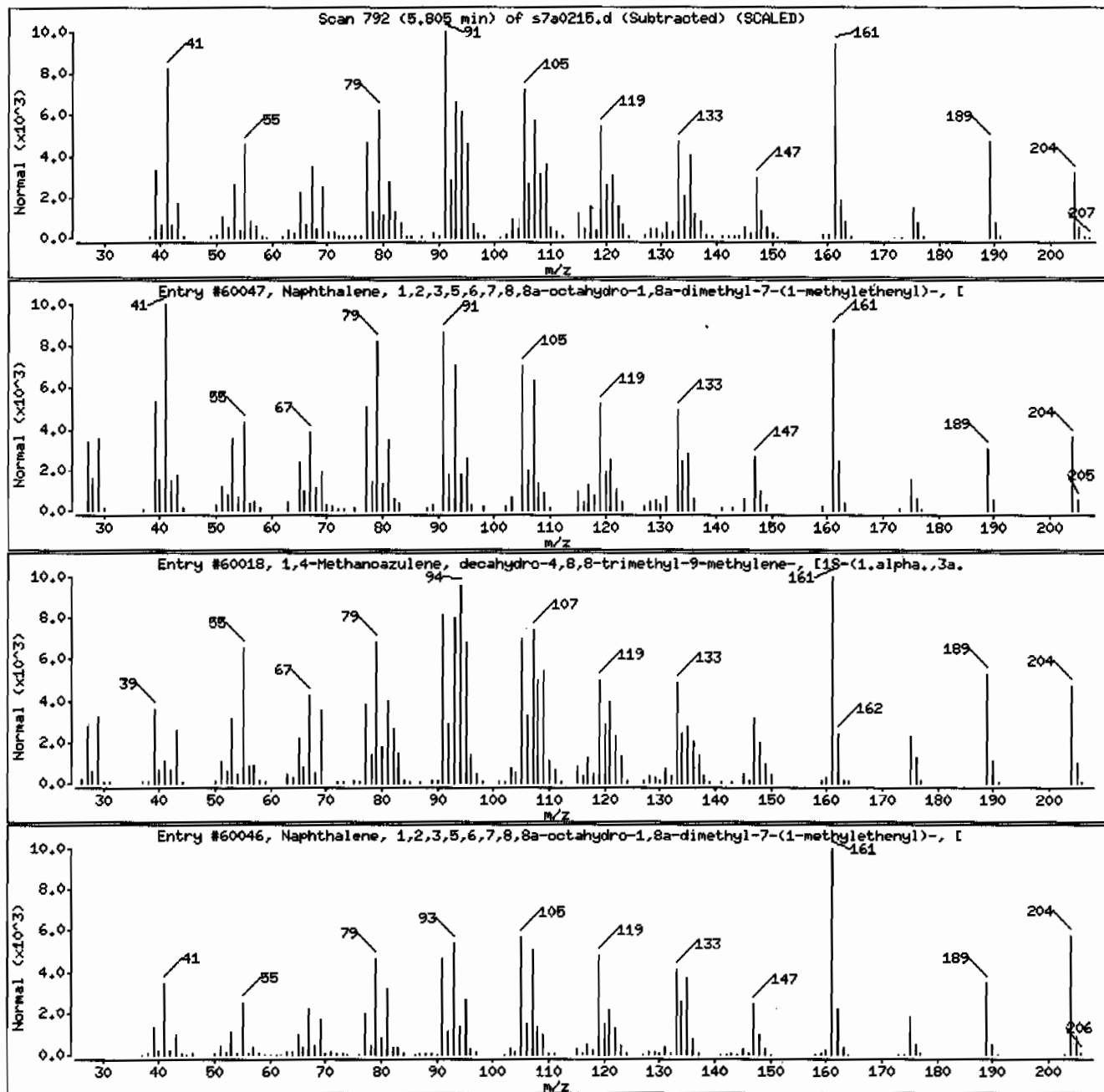
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60047	98	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	97	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	96	C15H24	204



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 1243490003193709811SVHF11ILANL

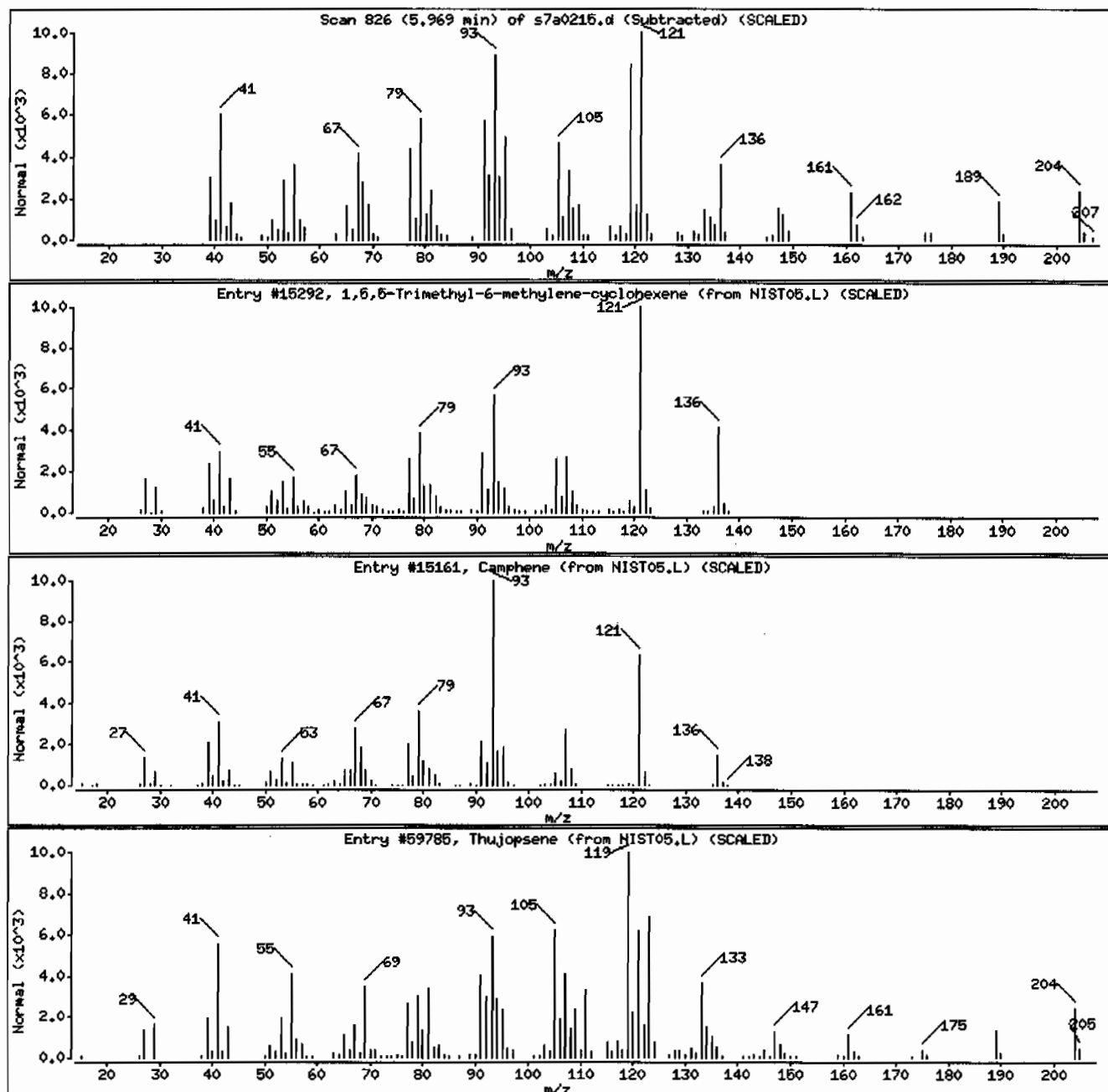
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-SMS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	78	C10H16	136
Camphene	79-92-5	NIST05.L	15161	70	C10H16	136
Thujopsene	470-40-6	NIST05.L	59785	64	C15H24	204



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 1243490003193709511SVMF11LANL

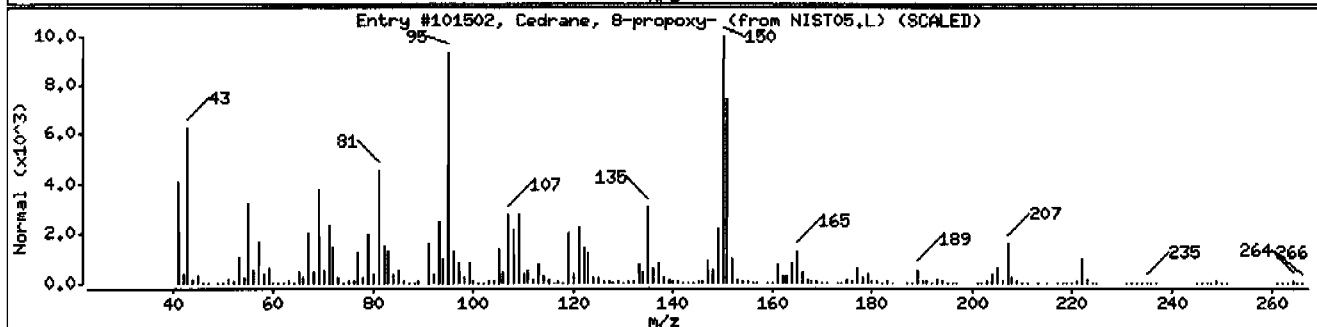
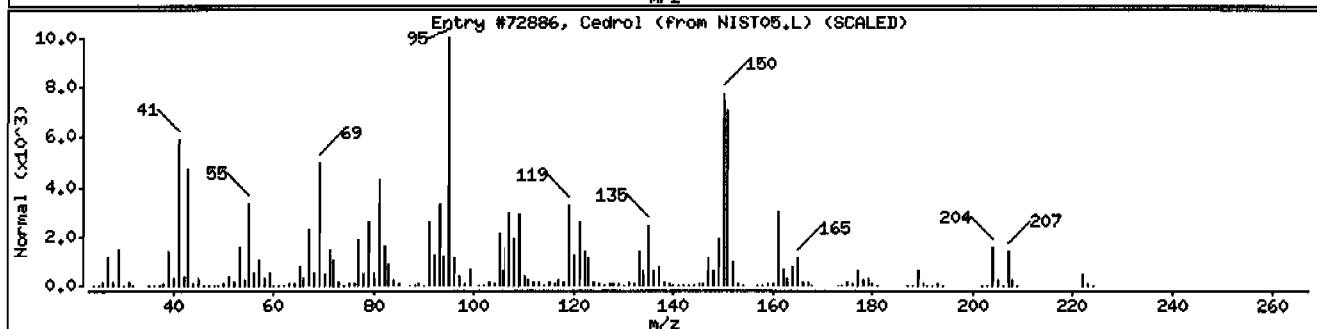
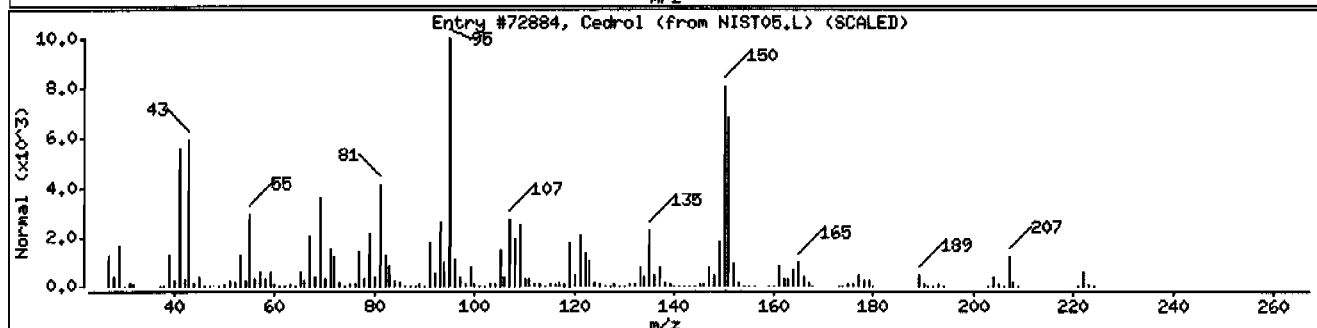
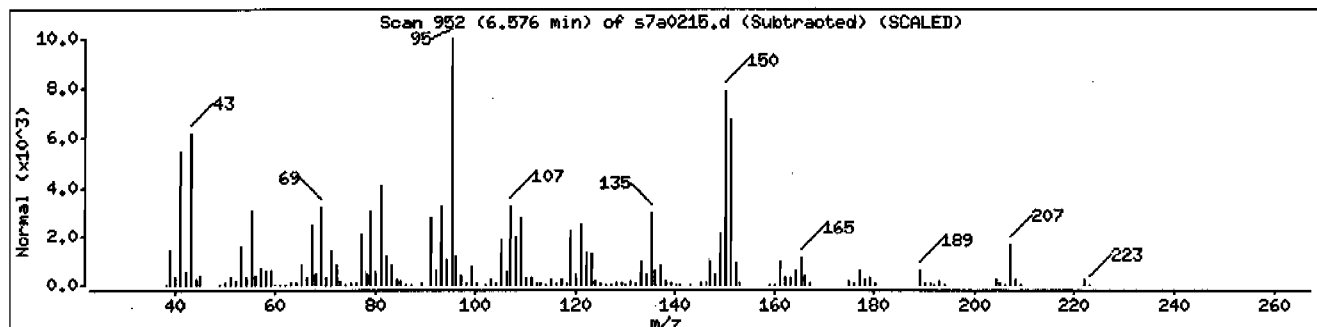
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C ₁₅ H ₂₆ O	222
Cedrol	77-53-2	NIST05.L	72886	91	C ₁₅ H ₂₆ O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	91	C ₁₈ H ₃₂ O	264



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 12434900031937095111SVMF111LANL

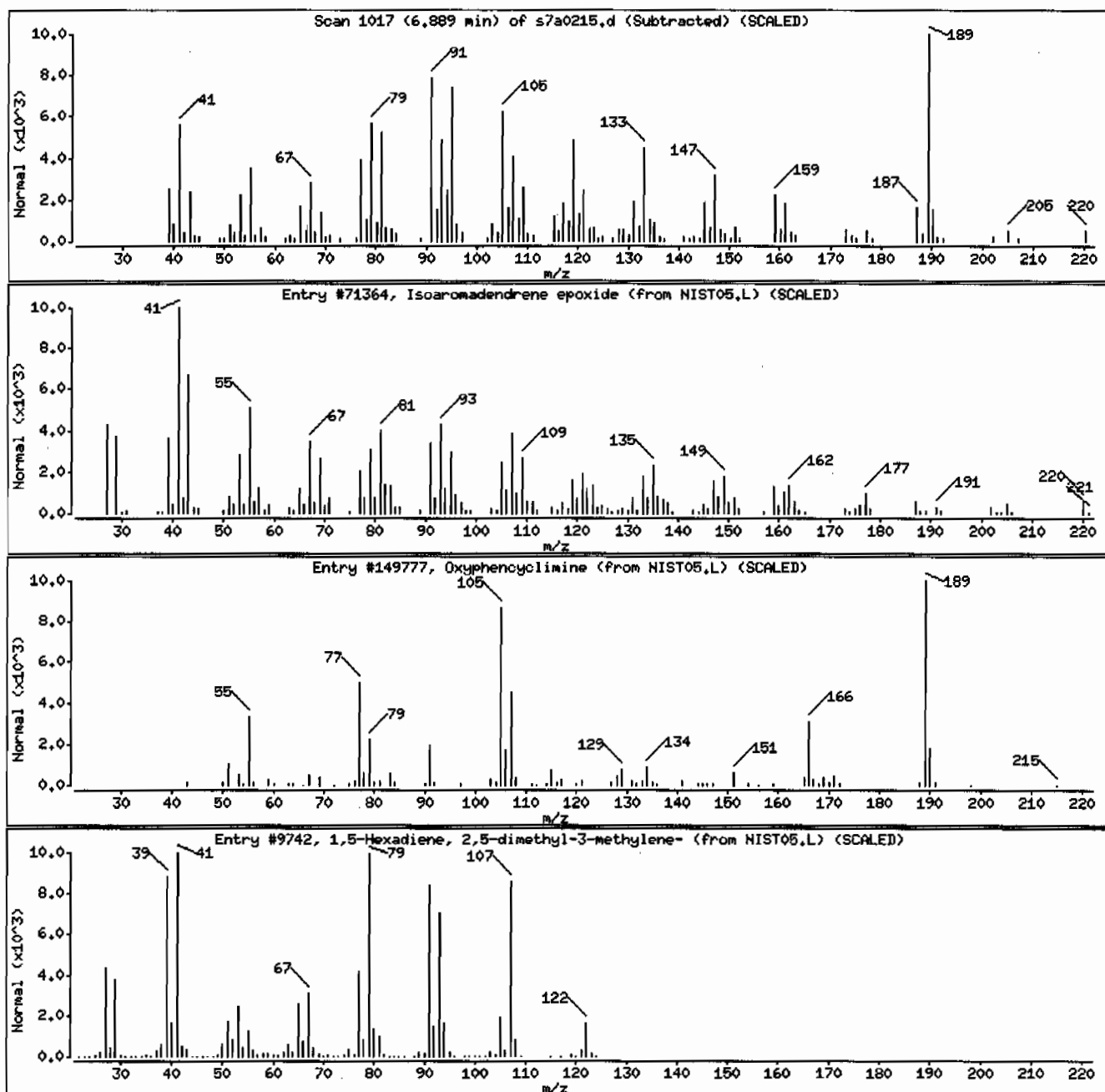
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Isoaromadendrene epoxide	1000159-36-6	NIST05.L	71364	27	C16H24O	220
Oxyphenacylimine	125-53-1	NIST05.L	149777	18	C20H28N2O3	344
1,5-Hexadiene, 2,5-dimethyl-3-methylene-	59131-13-4	NIST05.L	9742	11	C9H14	122



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: HSD7.i

Sample Info: 1243490003193709511SVHF111LANL

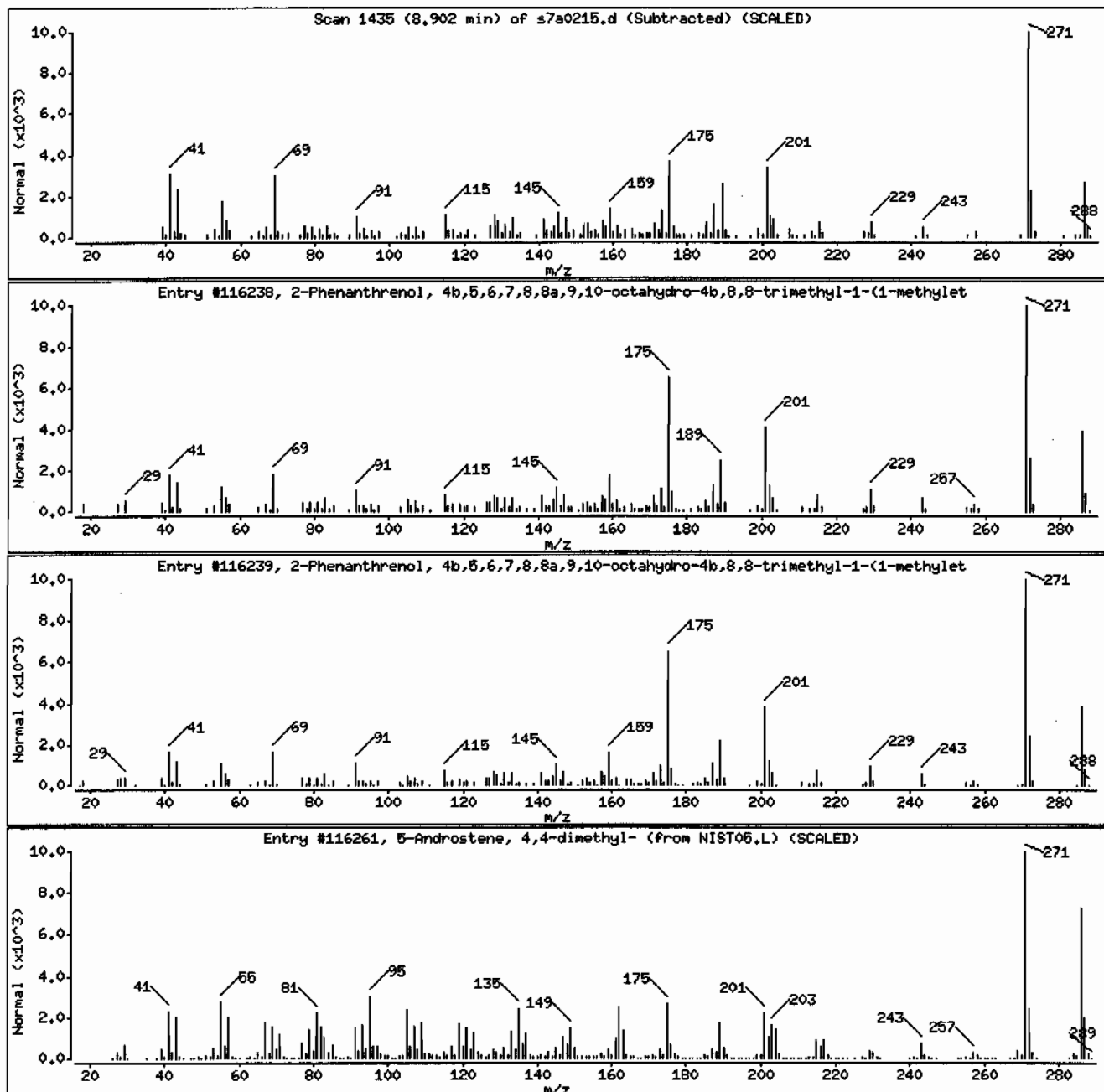
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	98	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	93	C20H30O	286
5-Androstene, 4,4-dimethyl-	1000194-15-4	NIST05.L	116261	45	C21H34	286



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.1

Sample Info: 1243490003193709511SVHF111LANL

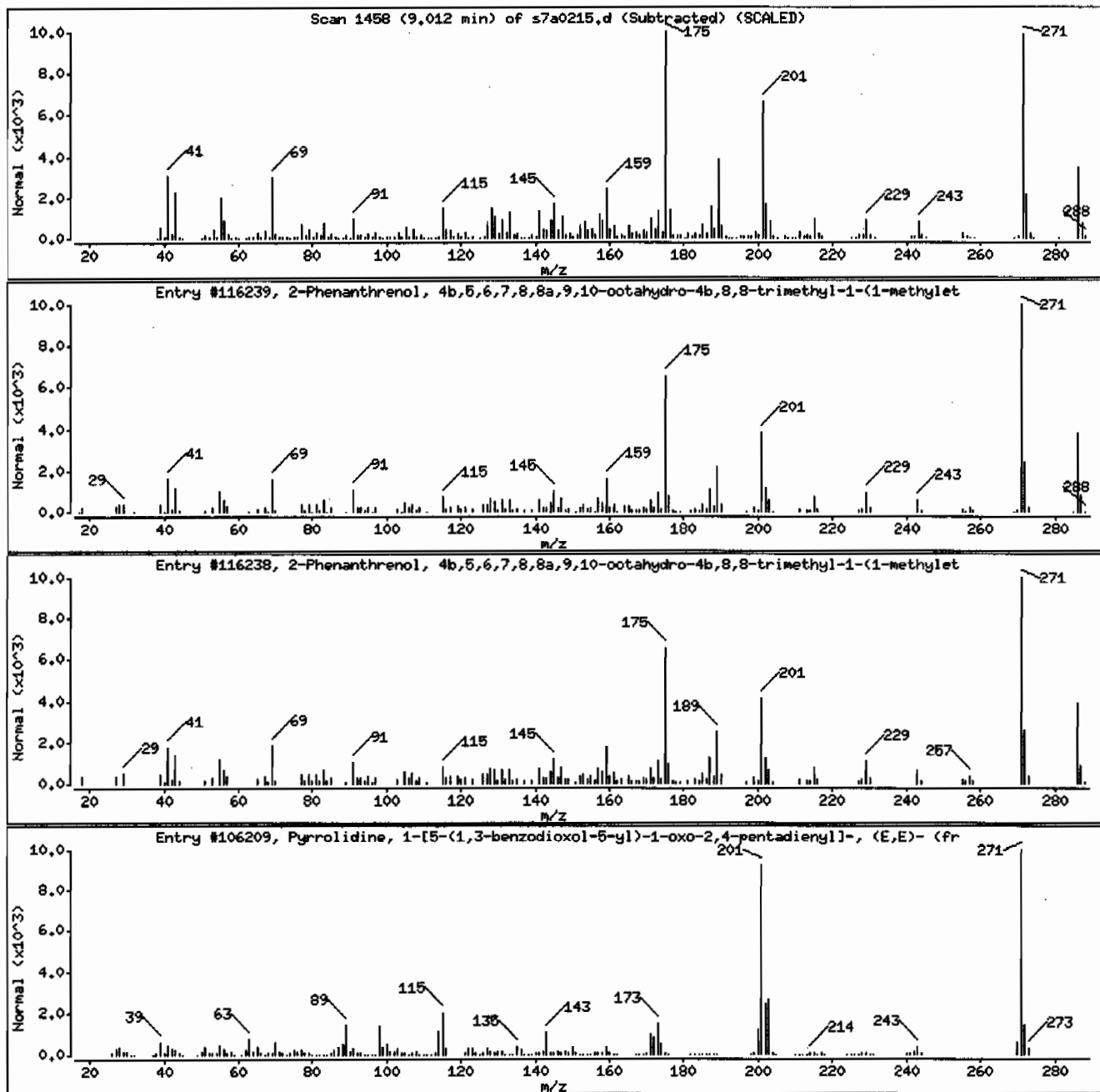
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	97	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	89	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	30	C16H17NO3	271



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: HSD7,i

Sample Info: 12434900031937095111SVHF111LANL

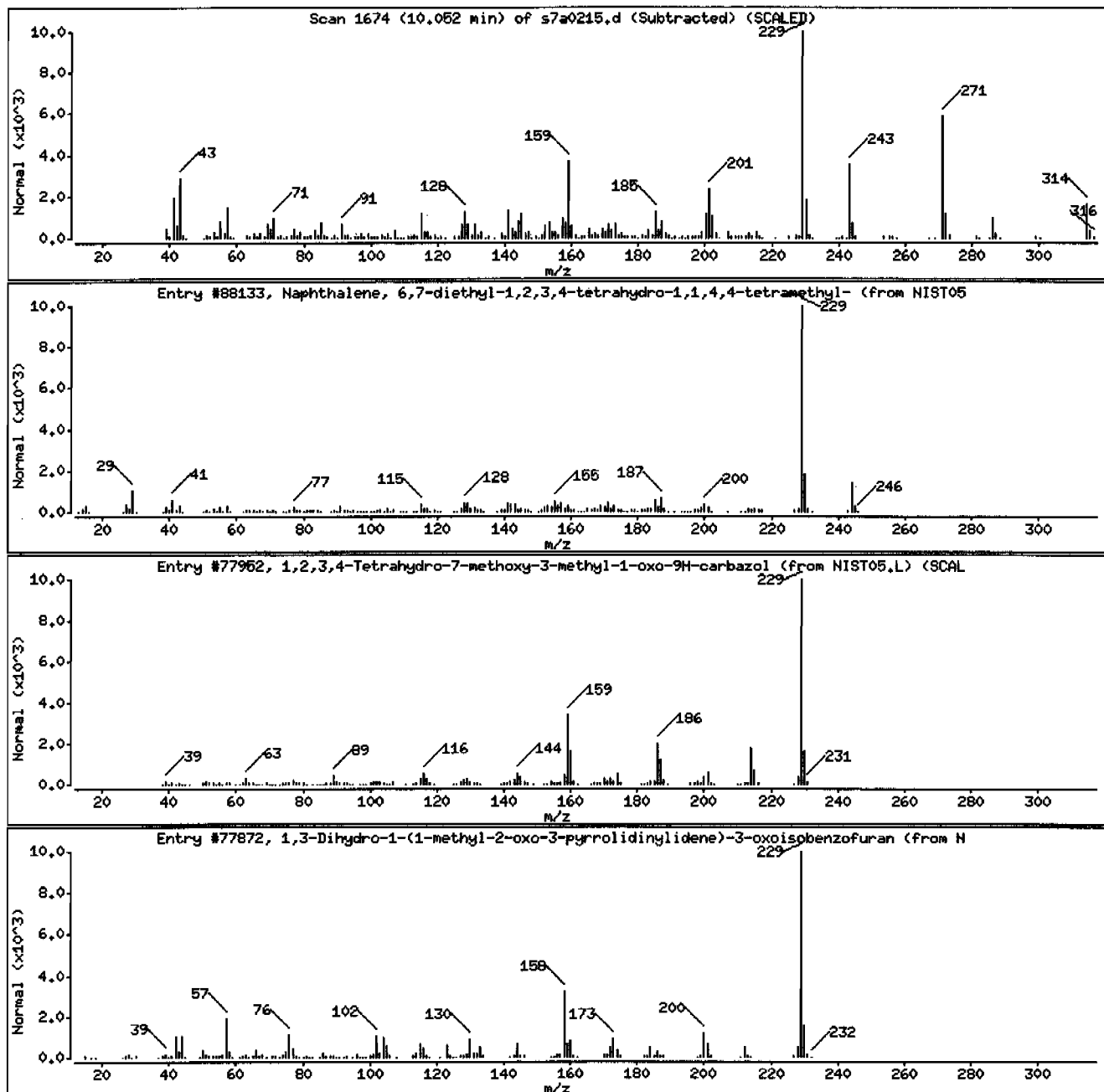
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	55741-10-1	NIST05.L	88133	50	C18H28	244
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-	32550-51-9	NIST05.L	77952	45	C14H15NO2	229
1,3-Dihydro-1-(1-methyl-2-oxo-3-pyrrolid	3988-53-2	NIST05.L	77872	35	C13H11NO3	229



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: MSD7.i

Sample Info: 1243490003193709511SVHF111LANL

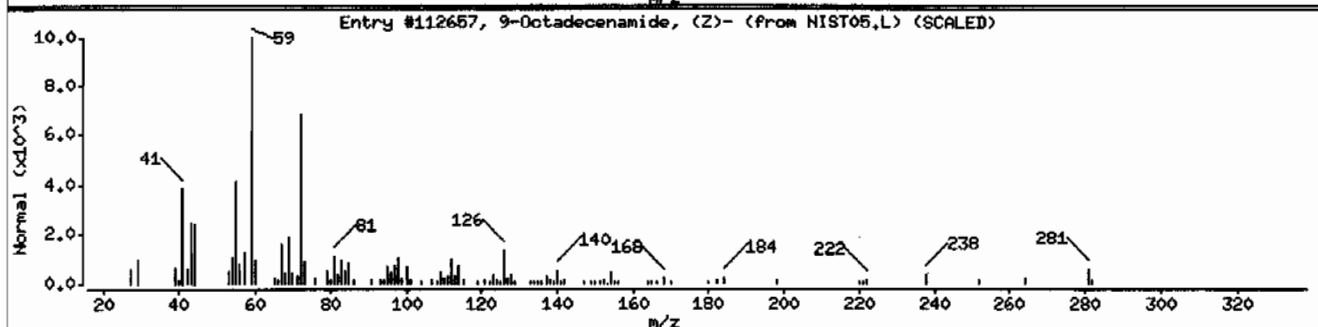
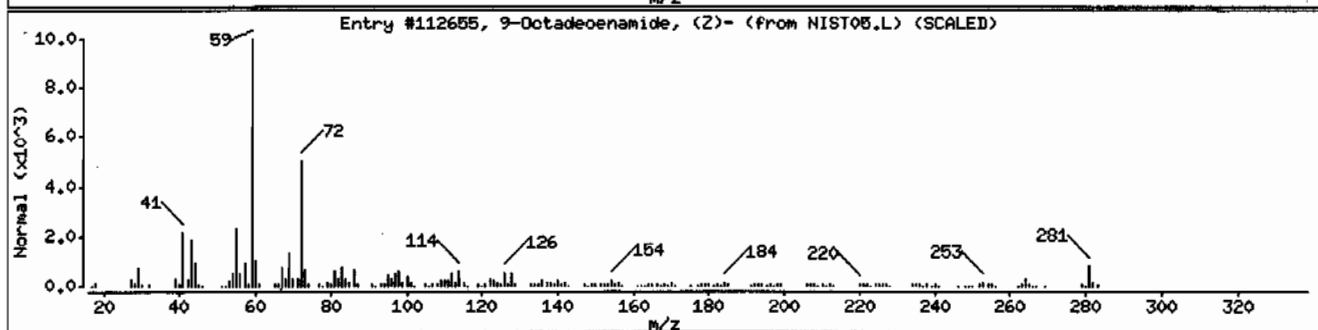
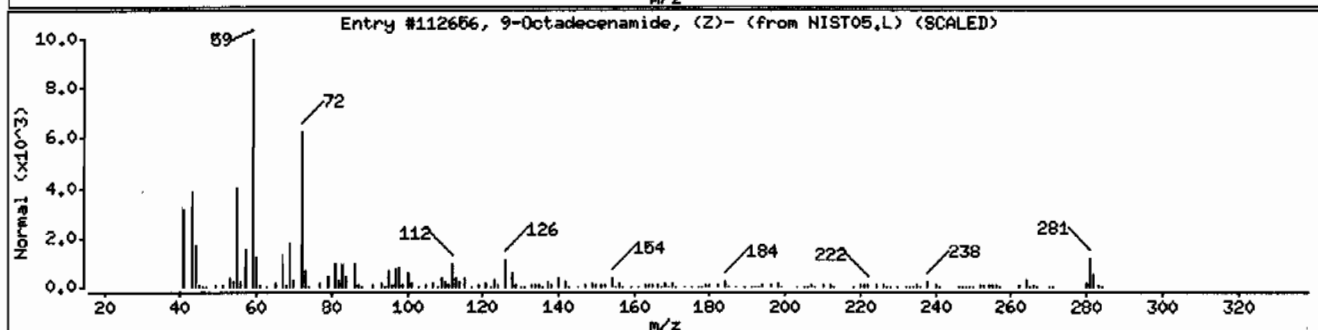
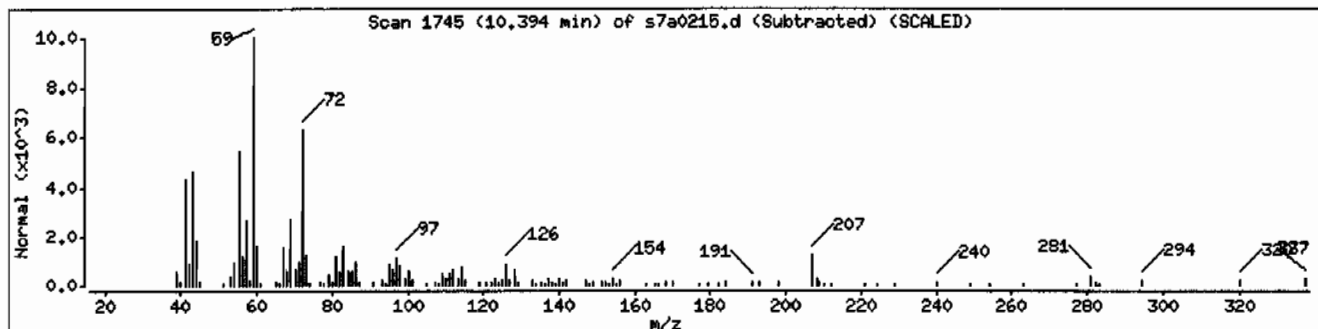
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-SMS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	93	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	86	C18H35NO	281



Date : 02-JAN-2010 20:48

Client ID: RE12-10-7289

Instrument: HSD7.i

Sample Info: 1243490003193709511ISVHF111LANL

Volume Injected (uL): 0.5

Operator: JHB3

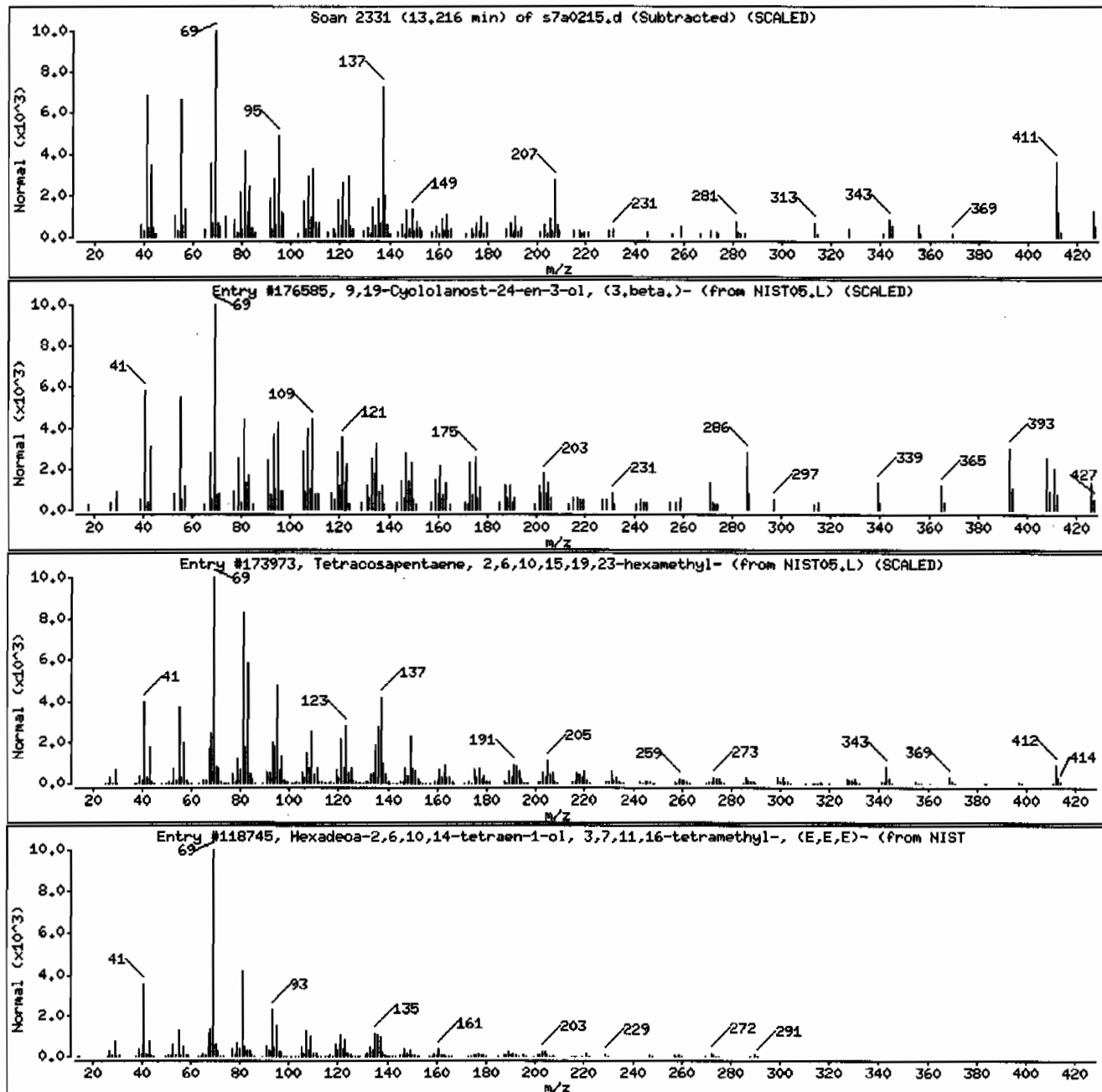
Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

Unknown

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,19-Cyclolanost-24-en-3-ol, (3,β)-	469-38-6	NIST05.L	176585	70	C ₃₀ H ₅₀ O	426
Tetracosapentaene, 2,6,10,15,19,23-hexam	26266-08-0	NIST05.L	173973	64	C ₃₀ H ₅₂	412
Hexadeca-2,6,10,14-tetraen-1-ol, 3,7,11,	7614-21-3	NIST05.L	118745	38	C ₂₀ H ₃₄ O	290



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

SDG Number: 10-1036
Lab Sample ID: 243490002

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	342	ug/kg	68.4	342
108-95-2	Phenol	U	342	ug/kg	68.4	342
95-57-8	2-Chlorophenol	U	342	ug/kg	68.4	342
106-46-7	1,4-Dichlorobenzene	U	342	ug/kg	68.4	342
621-64-7	N-Nitrosodipropylamine	U	342	ug/kg	68.4	342
59-50-7	4-Chloro-3-methylphenol	U	342	ug/kg	68.4	342
83-32-9	Acenaphthene	U	34.2	ug/kg	11.3	34.2
121-14-2	2,4-Dinitrotoluene	U	342	ug/kg	34.2	342
100-02-7	4-Nitrophenol	U	342	ug/kg	113	342
87-86-5	Pentachlorophenol	U	342	ug/kg	85.5	342
129-00-0	Pyrene	U	34.2	ug/kg	10.3	34.2
110-86-1	Pyridine	U	342	ug/kg	68.4	342
62-53-3	Aniline	U	342	ug/kg	103	342
111-44-4	bis(2-Chloroethyl) ether	U	342	ug/kg	68.4	342
541-73-1	1,3-Dichlorobenzene	U	342	ug/kg	68.4	342
100-51-6	Benzyl alcohol	U	342	ug/kg	103	342
95-50-1	1,2-Dichlorobenzene	U	342	ug/kg	68.4	342
108-60-1	bis(2-Chloroisopropyl)ether	U	342	ug/kg	68.4	342
95-48-7	o-Cresol	U	342	ug/kg	68.4	342
65794-96-9	m,p-Cresols	U	342	ug/kg	103	342
67-72-1	Hexachloroethane	U	342	ug/kg	68.4	342
98-95-3	Nitrobenzene	U	342	ug/kg	68.4	342
78-59-1	Isophorone	U	342	ug/kg	68.4	342
88-75-5	2-Nitrophenol	U	342	ug/kg	68.4	342
105-67-9	2,4-Dimethylphenol	U	342	ug/kg	120	342
111-91-1	bis(2-Chloroethoxy)methane	U	342	ug/kg	68.4	342
120-83-2	2,4-Dichlorophenol	U	342	ug/kg	68.4	342
65-85-0	Benzoic acid	U	684	ug/kg	171	684
91-20-3	Naphthalene	U	34.2	ug/kg	10.3	34.2
106-47-8	4-Chloroaniline	U	342	ug/kg	68.4	342
87-68-3	Hexachlorobutadiene	U	342	ug/kg	68.4	342
91-57-6	2-Methylnaphthalene	U	34.2	ug/kg	6.84	34.2
77-47-4	Hexachlorocyclopentadiene	U	342	ug/kg	68.4	342
88-06-2	2,4,6-Trichlorophenol	U	342	ug/kg	68.4	342
95-95-4	2,4,5-Trichlorophenol	U	342	ug/kg	68.4	342
91-58-7	2-Chloronaphthalene	U	34.2	ug/kg	11.3	34.2
88-74-4	2-Nitroaniline	U	342	ug/kg	68.4	342
99-09-2	o-Nitroaniline	U	342	ug/kg	68.4	342
	3-Nitroaniline					

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490002

Client ID: RE12-10-7290
Batch ID: 937095
Run Date: 01/02/2010 20:26
Prep Date: 12/28/2009 21:32
Data File: s7a0214.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	342	ug/kg	68.4	342
606-20-2	2,6-Dinitrotoluene	U	342	ug/kg	34.2	342
208-96-8	Acenaphthylene	U	34.2	ug/kg	10.3	34.2
51-28-5	2,4-Dinitrophenol	U	684	ug/kg	130	684
132-64-9	Dibenzofuran	U	342	ug/kg	68.4	342
84-66-2	Diethylphthalate	U	342	ug/kg	68.4	342
86-73-7	Fluorene	U	34.2	ug/kg	10.3	34.2
7005-72-3	4-Chlorophenylphenylether	U	342	ug/kg	68.4	342
534-52-1	2-Methyl-4,6-dinitrophenol	U	342	ug/kg	68.4	342
100-01-6	4-Nitroaniline	U	342	ug/kg	103	342
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	342	ug/kg	68.4	342
122-66-7	Azobenzene	U	342	ug/kg	68.4	342
	<i>1,2</i> -Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	342	ug/kg	68.4	342
118-74-1	Hexachlorobenzene	U	342	ug/kg	68.4	342
85-01-8	Phenanthrene	U	34.2	ug/kg	10.3	34.2
120-12-7	Anthracene	U	34.2	ug/kg	6.84	34.2
84-74-2	Di-n-butylphthalate	U	342	ug/kg	68.4	342
206-44-0	Fluoranthene	U	34.2	ug/kg	10.3	34.2
85-68-7	Butylbenzylphthalate	U	342	ug/kg	68.4	342
56-55-3	Benzo(a)anthracene	U	34.2	ug/kg	10.3	34.2
91-94-1	3,3'-Dichlorobenzidine	U	342	ug/kg	103	342
218-01-9	Chrysene	U	34.2	ug/kg	10.3	34.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	342	ug/kg	68.4	342
117-84-0	Di-n-octylphthalate	U	342	ug/kg	68.4	342
205-99-2	Benzo(b)fluoranthene	U	34.2	ug/kg	10.3	34.2
207-08-9	Benzo(k)fluoranthene	U	34.2	ug/kg	10.3	34.2
50-32-8	Benzo(a)pyrene	U	34.2	ug/kg	10.3	34.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.2	ug/kg	10.3	34.2
53-70-3	Dibenzo(a,h)anthracene	U	34.2	ug/kg	10.3	34.2
191-24-2	Benzo(ghi)perylene	U	34.2	ug/kg	10.3	34.2
120-82-1	1,2,4-Trichlorobenzene	U	342	ug/kg	68.4	342

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.12	171	ug/kg		J
	Unknown Aldol Condensate	3.01	194	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490002

Client ID: RE12-10-7290
Batch ID: 937095
Run Date: 01/02/2010 20:26
Prep Date: 12/28/2009 21:32
Data File: s7a0214.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
5131-66-8	2-Propanol, 1-butoxy-	3.51	219	ug/kg	90	NJ
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	358	ug/kg	99	NJ
77-53-2	Cedrol	6.58	359	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	535	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	10.39	161	ug/kg	95	NJ

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Data file : /chem/MSD7.i/s010210.b/s7a0214.d
Lab Smp Id: 243490002 Client Smp ID: RE12-10-7290
Inj Date : 02-JAN-2010 20:26
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490002|937095|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	3.11490	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN	FINAL
					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	347499	40.0000
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1255664	40.0000
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	734574	40.0000
* 67 Phenanthrene-d10	188	7.236	7.236	(1.000)	1395992	40.0000
* 91 Chrysene-d12	240	9.634	9.638	(1.000)	1490967	40.0000
* 98 Perylene-d12	264	11.295	11.295	(1.000)	1286883	40.0000
\$ 3 2-Fluorophenol	112	3.167	3.152	(0.798)	511679	54.9970 1880
\$ 5 Phenol-d5	99	3.672	3.672	(0.926)	623860	54.0835 1850
\$ 20 Nitrobenzene-d5	82	4.318	4.322	(0.895)	289640	30.0485 1030
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	626422	31.5186 1080
\$ 60 2,4,6-Tribromophenol	329	6.663	6.667	(1.098)	191772	77.4278 2650
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.894)	947740	37.9073 1300

ION RATIO REPORT

SV REPORT

Data file: s7a0214.d

Report Date: 01/04/2010 08:14

Lab. ID: 243490002

SampleType: SAMPLE

Injection Date: 02-JAN-2010 20:26

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490002|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

4 Aniline		CAS#: 62-53-3				
66	34518	3.67	3.74	80-120	100	(T)
93	379	3.55	3.74	221-281	1	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	42717	4.32	4.19	80-120	100	(T)
42	27171	4.32	4.19	43-103	64	(T)

40 2-Chloronaphthalene		CAS#: 91-58-7				
162	8523	5.81	5.67	80-120	100	(T)
164	296	5.81	5.67	3- 63	3	(T)
127	639	5.81	5.67	7- 67	7	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	130579	6.07	5.83	80-120	100	(T)
164	734574	6.07	5.83	0- 40	563	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	96325	6.07	5.88	80-120	100	(T)
63	1090	6.07	5.88	35- 95	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	96325	6.07	6.18	80-120	100	(T)
89	1210	6.07	6.18	43-103	1	(QT)
63	1090	6.07	6.18	20- 80	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53 Fluorene		CAS#: 86-73-7				
166	10070	6.66	6.48	80-120	100	(T)
165	10428	6.66	6.48	60-120	104	(T)
167	3518	6.66	6.48	0- 44	35	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	431	6.66	6.49	80-120	100	(T)
105	1497	6.66	6.49	13- 73	347	(QT)
51	1140	6.66	6.49	48-108	264	(QT)

56 p-Nitroaniline		CAS#: 100-01-6				
138	1079	6.58	6.48	80-120	100	(T)
108	13058	6.58	6.48	41-101	1210	(QT)
92	4125	6.58	6.48	16- 76	382	(QT)

 Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD7.i/s010210.b/s7a0214.d
 Lab Smp Id: 243490002 Client Smp ID: RE12-10-7290
 Inj Date : 02-JAN-2010 20:26
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490002|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270 S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	3.11490	% moisture

Cpnd Variable Local Compound Variable

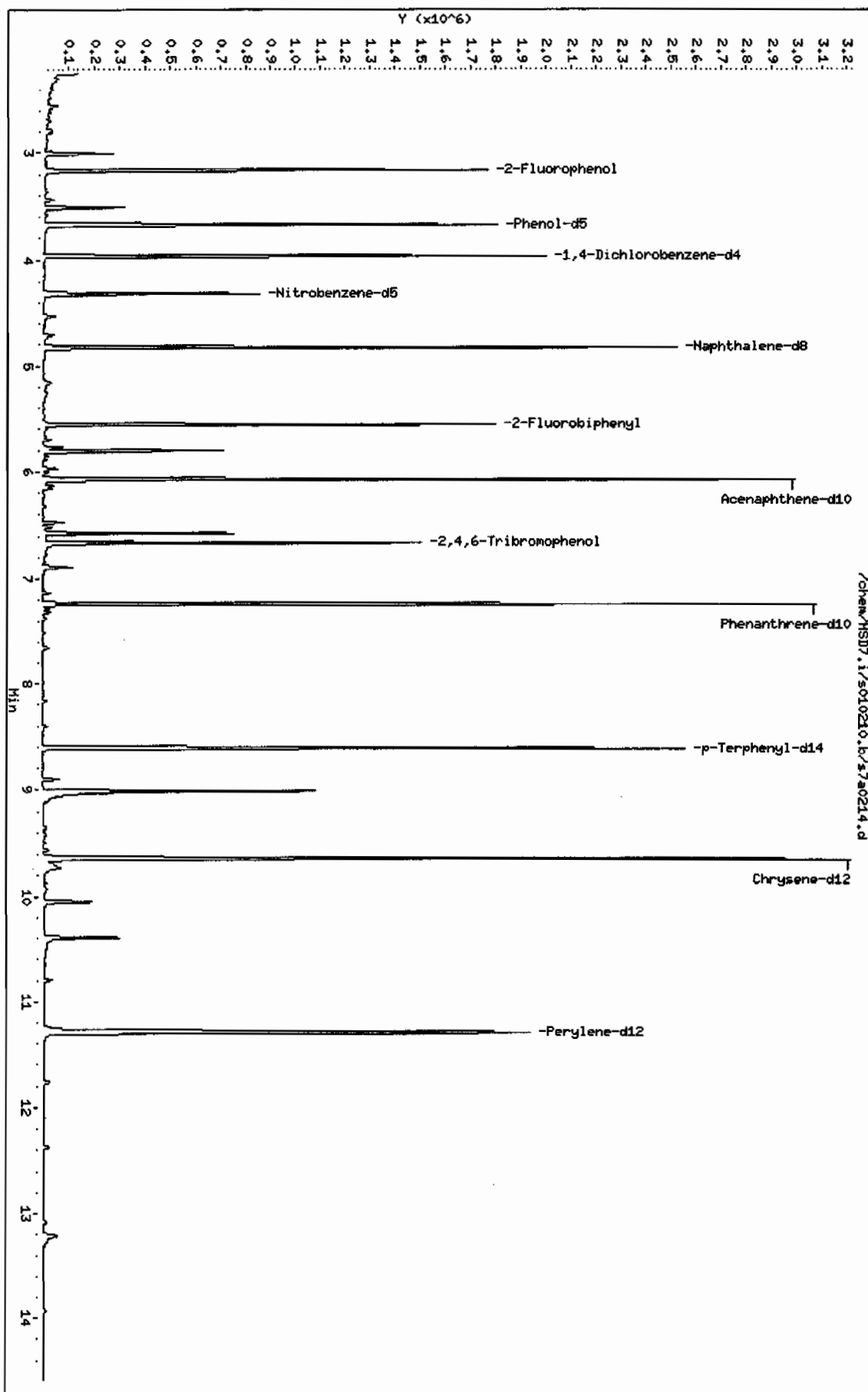
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.966	2092205	40.000
* 46 Acenaphthene-d10	6.070	3092437	40.000
* 91 Chrysene-d12	9.634	3861085	40.000

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

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
2.122	262172	5.01236043	171	0		0	10
Unknown Aldol Condensate				CAS #:			
3.008	296126	5.66151493	194	0		0	10
2-Propanol, 1-butoxy-				CAS #: 5131-66-8			
3.513	334331	6.39193760	218	90	NIST05.L	13973	10
1,4-Methanoazulene, decahydro-4,8,8-trim				CAS #: 475-20-7			
5.805	808930	10.4633295	358	99	NIST05.L	60020	46
Cedrol				CAS #: 77-53-2			
6.576	812523	10.5098034	359	94	NIST05.L	72884	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa				CAS #: 511-15-9			
9.012	1511089	15.6545510	535	97	NIST05.L	116239	91
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
10.394	455952	4.72356764	161	95	NIST05.L	112656	91

Data File: /chem/MSD7.i/s010210.b/s7a0214.d
Date: 02-JAN-2010 20:26
Client ID: REL2-10-7290
Sample Info: 1243490002193709511SVHF11LNL
Volume Injected (uL): 0.5
Column phase: JMW DB-5MS

Instrument: MSD7.i
Operator: JMB3
Column diameter: 0.20



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511ISVHF11ILANL

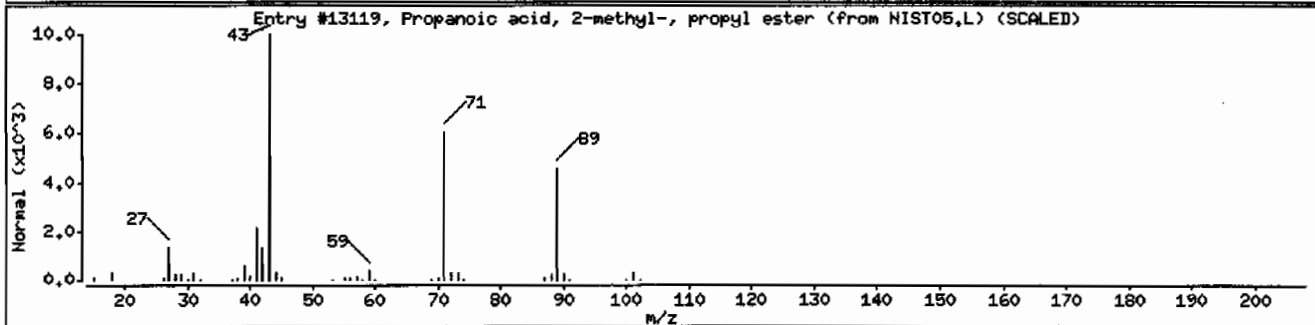
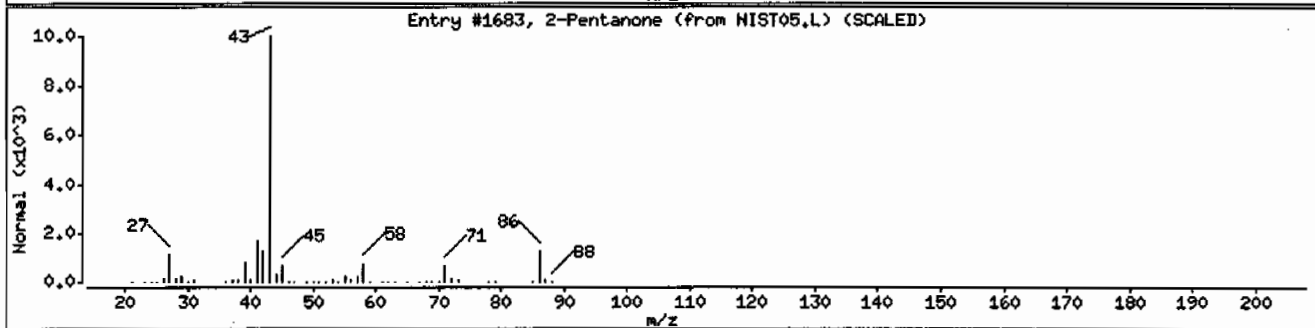
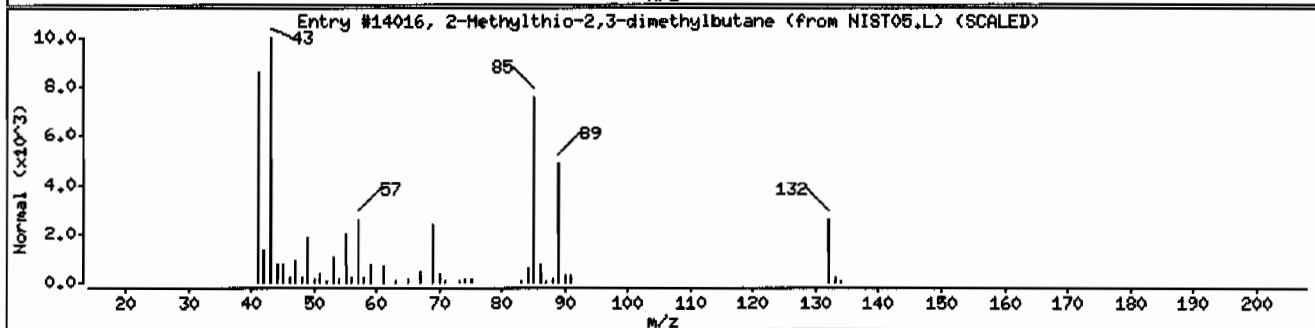
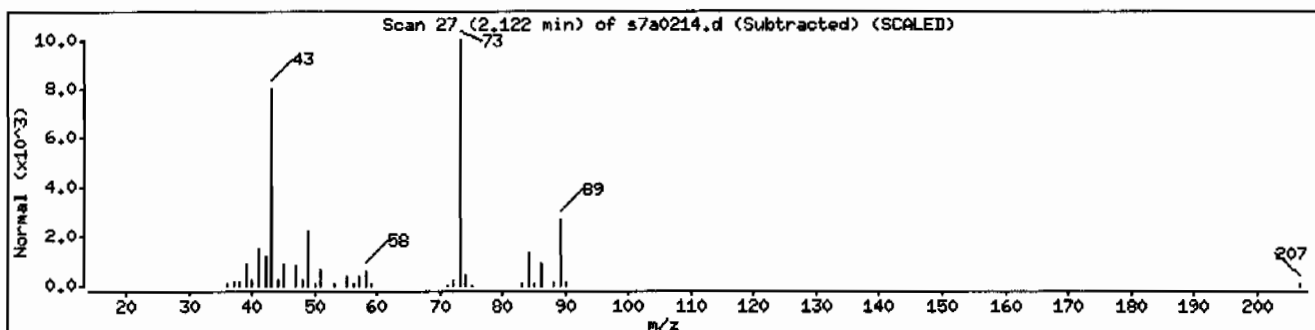
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Methylthio-2,3-dimethylbutane	1000314-01-2	NIST05.L	14016	12	C7H16S	132
2-Pentanone	107-87-9	NIST05.L	1683	10	C5H10O	86
Propanoic acid, 2-methyl-, propyl ester	644-49-5	NIST05.L	13119	10	C7H14O2	130



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511ISVMF11ILANL

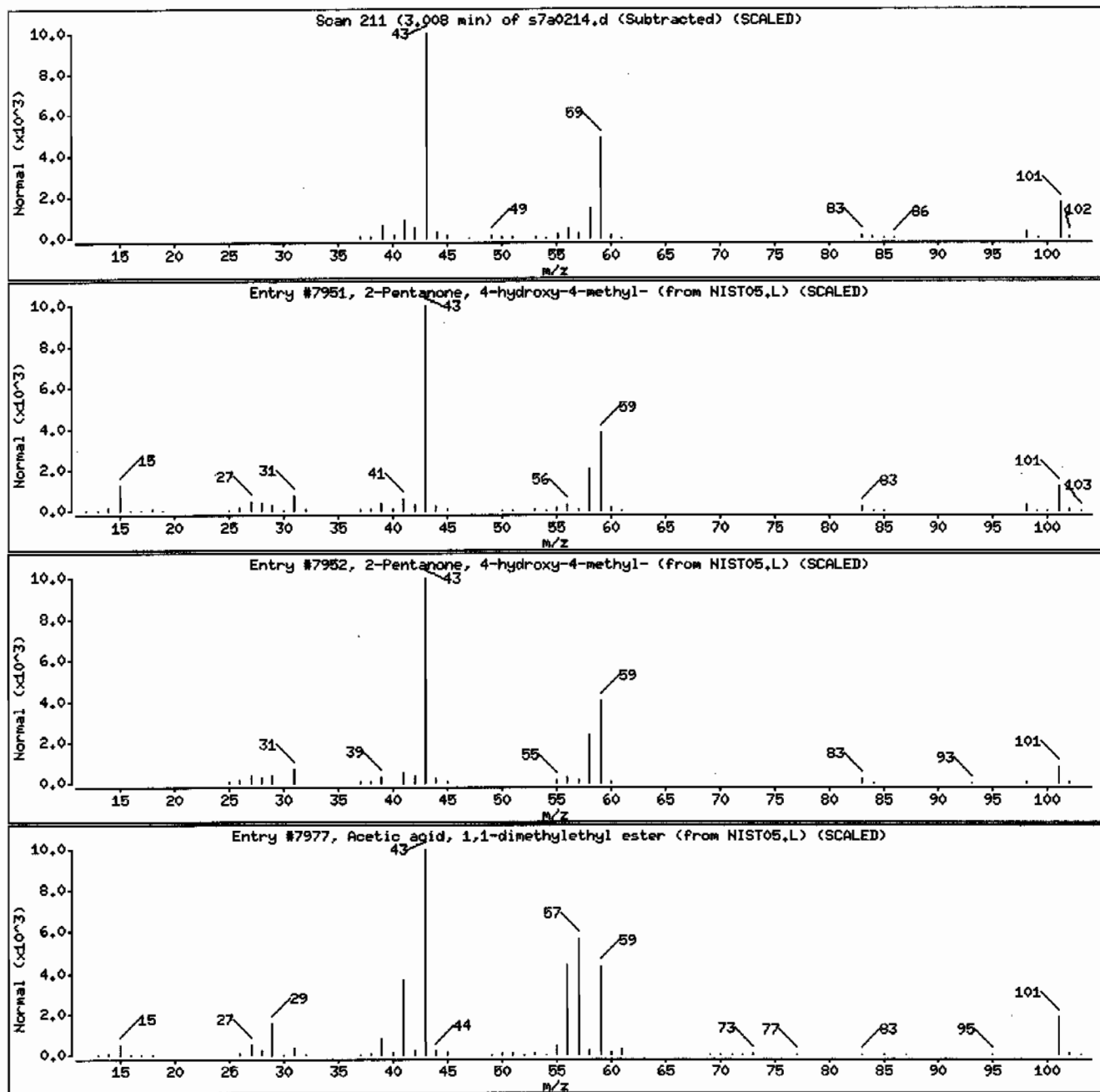
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	56	C ₆ H ₁₂ O ₂	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C ₆ H ₁₂ O ₂	116
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST05.L	7977	38	C ₆ H ₁₂ O ₂	116



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511SVHF111LANL

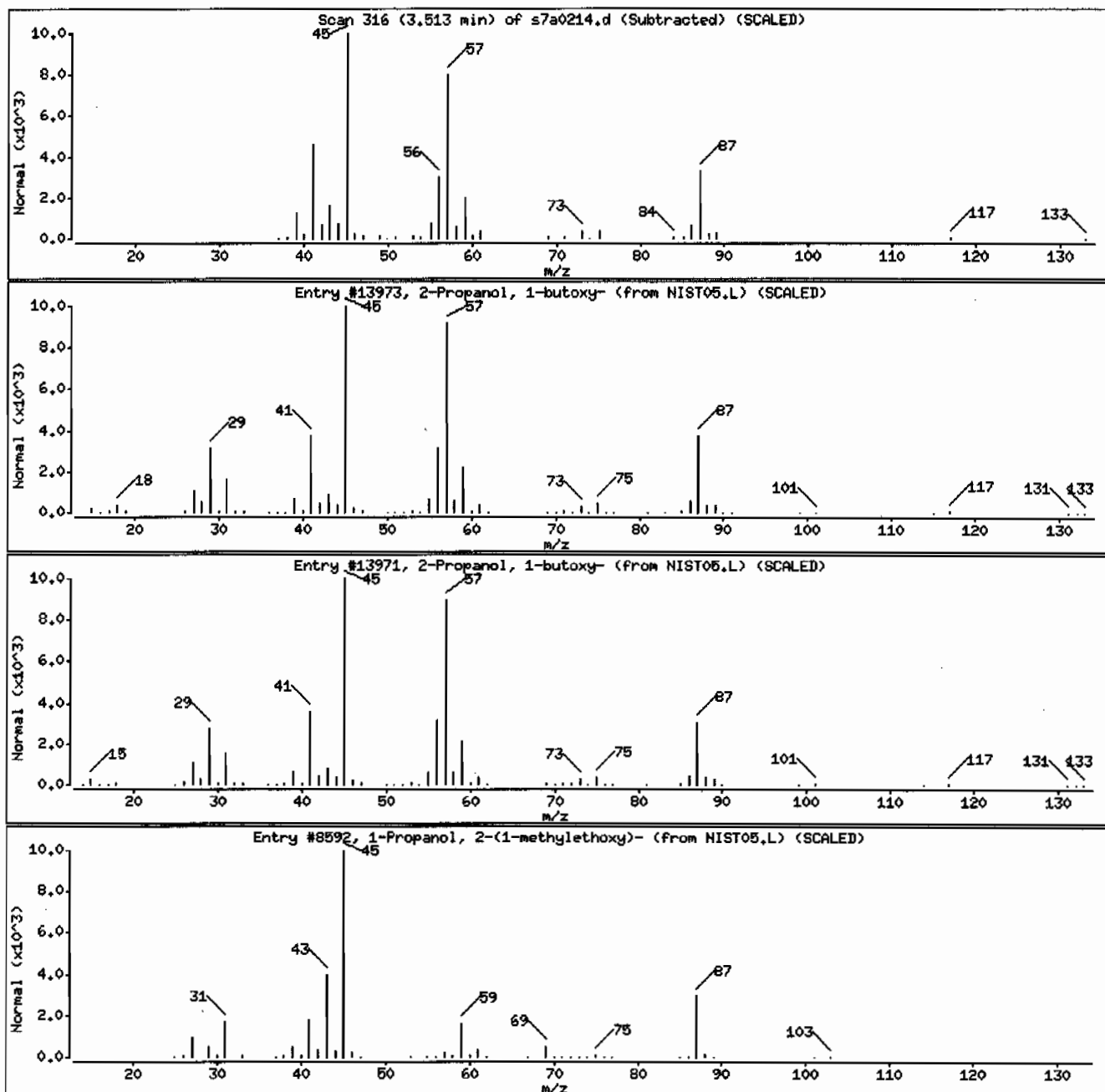
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propanol, 1-butoxy-	5131-66-8	NIST05.L	13973	90	C7H16O2	132
2-Propanol, 1-butoxy-	5131-66-8	NIST05.L	13971	83	C7H16O2	132
1-Propanol, 2-(1-methylethoxy)-	3944-37-4	NIST05.L	8592	53	C6H14O2	118



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511SVHF11ILANL

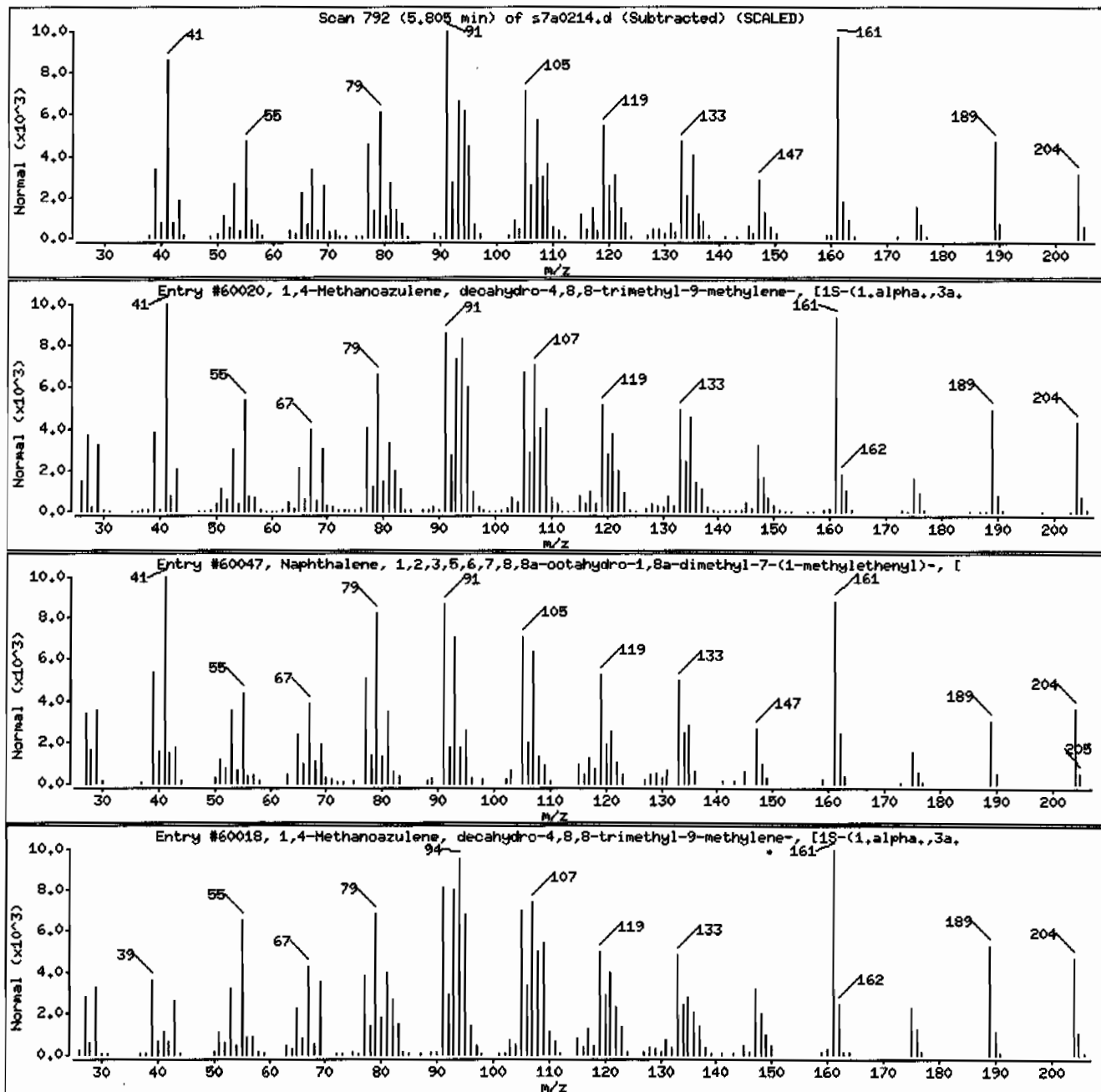
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.	475-20-7	NIST05.L	60020	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1S-(1.alpha.,3a.	4630-07-3	NIST05.L	60047	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.	475-20-7	NIST05.L	60018	98	C15H24	204



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: HSD7.i

Sample Info: 1243490002193709511SVHF11ILANL

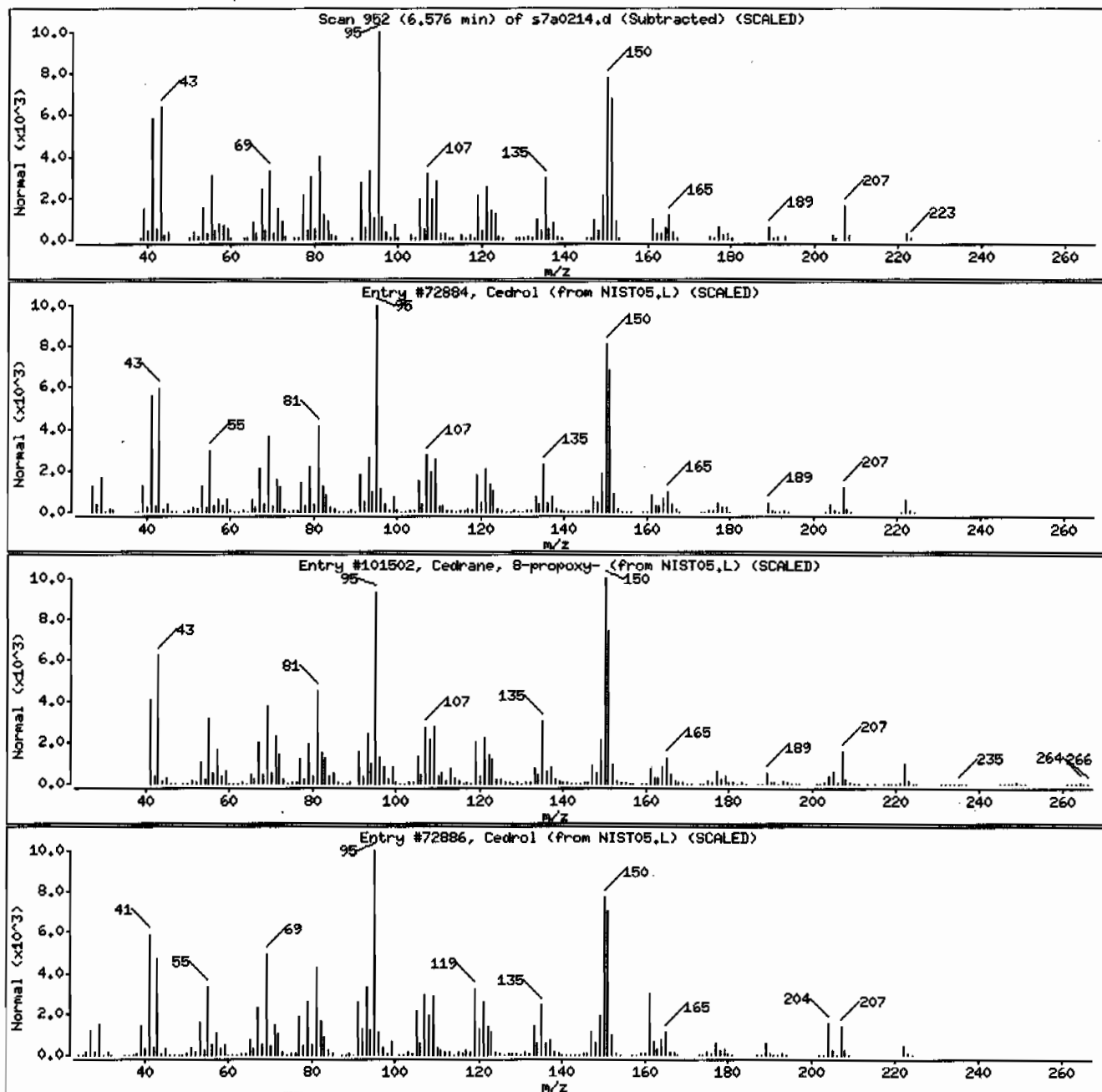
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C15H26O	222
Cedrane, 8-propoxy-	19870-78-8	NIST05.L	101502	94	C18H32O	264
Cedrol	77-53-2	NIST05.L	72886	91	C15H26O	222



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511SVHF111LANL

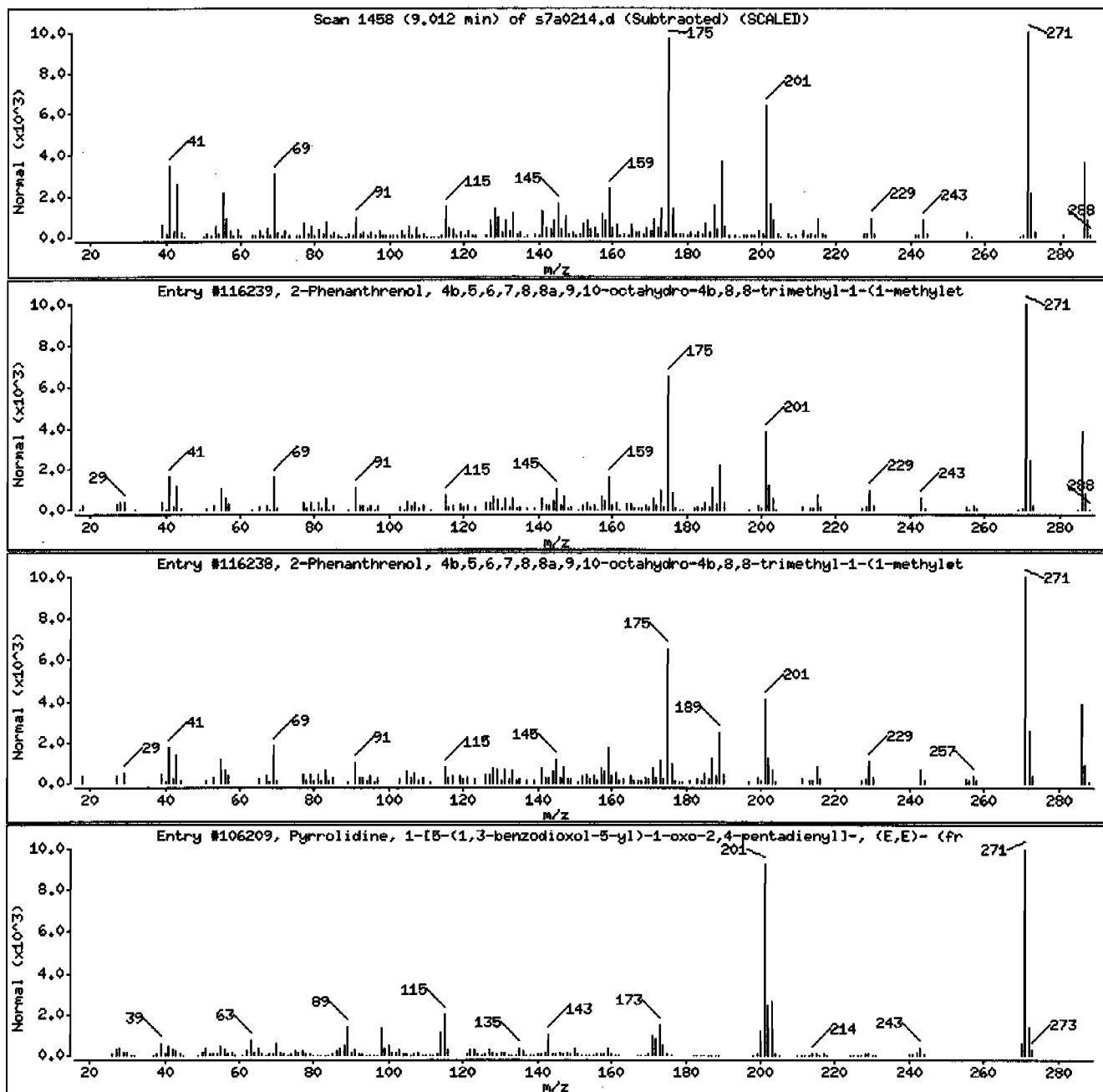
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	97	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	91	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	35	C16H17NO3	271



Date : 02-JAN-2010 20:26

Client ID: RE12-10-7290

Instrument: MSD7.i

Sample Info: 1243490002193709511SVHF111LANL

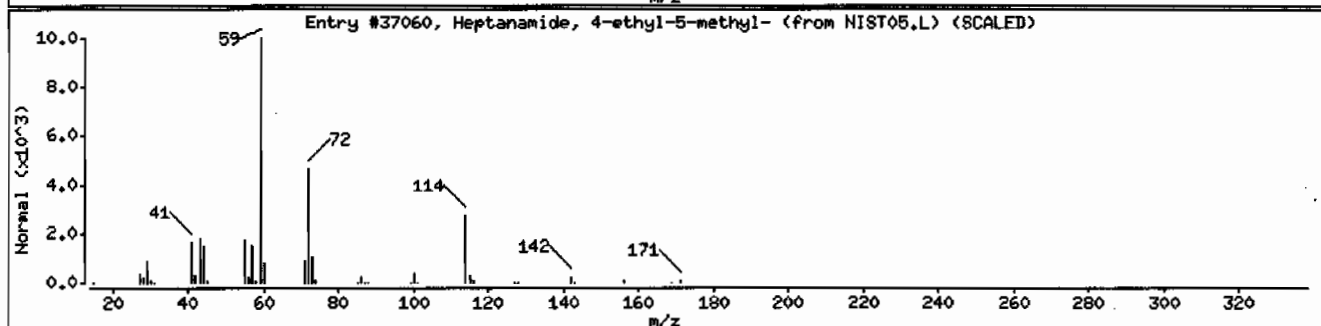
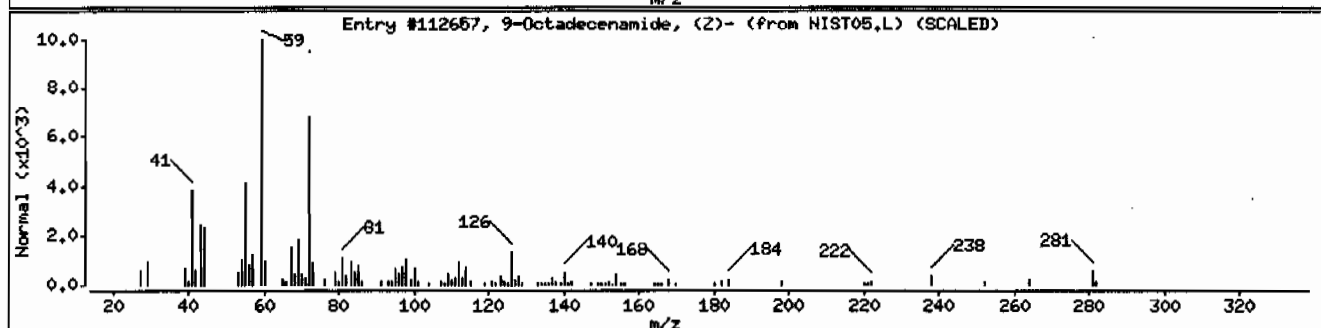
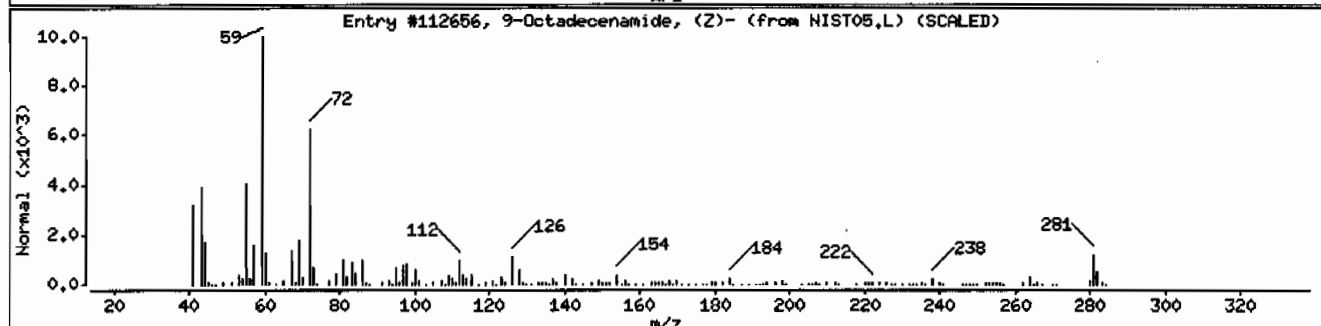
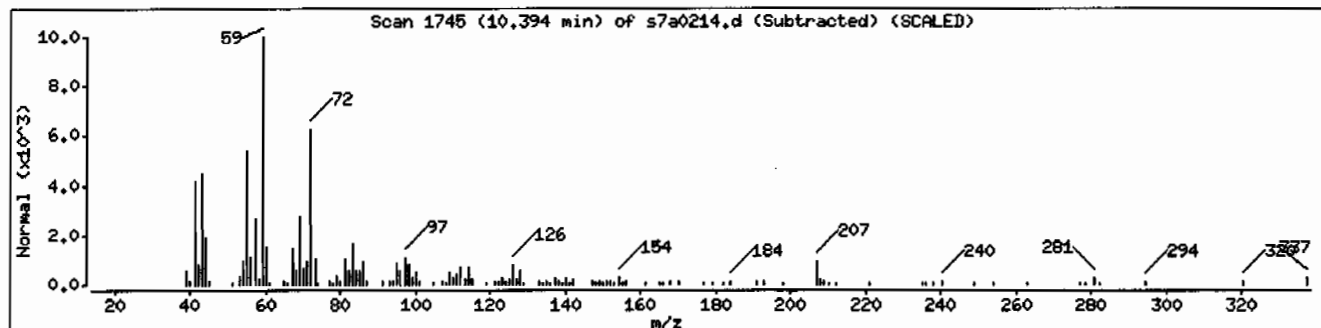
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	89	C18H35NO	281
Heptanamide, 4-ethyl-5-methyl-	54789-40-1	NIST05.L	37060	64	C10H21NO	171



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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7291
Batch ID: 937095
Run Date: 01/04/2010 14:39
Prep Date: 12/28/2009 21:32
Data File: s7a0411.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	363	ug/kg	72.5	363
108-95-2	Phenol	U	363	ug/kg	72.5	363
95-57-8	2-Chlorophenol	U	363	ug/kg	72.5	363
106-46-7	1,4-Dichlorobenzene	U	363	ug/kg	72.5	363
621-64-7	N-Nitrosodipropylamine	U	363	ug/kg	72.5	363
59-50-7	4-Chloro-3-methylphenol	U	363	ug/kg	72.5	363
83-32-9	Acenaphthene	U	36.3	ug/kg	12.0	36.3
121-14-2	2,4-Dinitrotoluene	U	363	ug/kg	36.3	363
100-02-7	4-Nitrophenol	U	363	ug/kg	120	363
87-86-5	Pentachlorophenol	U	363	ug/kg	90.7	363
129-00-0	Pyrene	U	36.3	ug/kg	10.9	36.3
110-86-1	Pyridine	U	363	ug/kg	72.5	363
62-53-3	Aniline	U	363	ug/kg	109	363
111-44-4	bis(2-Chloroethyl) ether	U	363	ug/kg	72.5	363
541-73-1	1,3-Dichlorobenzene	U	363	ug/kg	72.5	363
100-51-6	Benzyl alcohol	U	363	ug/kg	109	363
95-50-1	1,2-Dichlorobenzene	U	363	ug/kg	72.5	363
108-60-1	bis(2-Chloroisopropyl)ether	U	363	ug/kg	72.5	363
95-48-7	o-Cresol	U	363	ug/kg	72.5	363
65794-96-9	m,p-Cresols	U	363	ug/kg	109	363
67-72-1	Hexachloroethane	U	363	ug/kg	72.5	363
98-95-3	Nitrobenzene	U	363	ug/kg	72.5	363
78-59-1	Isophorone	U	363	ug/kg	72.5	363
88-75-5	2-Nitrophenol	U	363	ug/kg	72.5	363
105-67-9	2,4-Dimethylphenol	U	363	ug/kg	127	363
111-91-1	bis(2-Chloroethoxy)methane	U	363	ug/kg	72.5	363
120-83-2	2,4-Dichlorophenol	U	363	ug/kg	72.5	363
65-85-0	Benzoic acid	U	725	ug/kg	181	725
91-20-3	Naphthalene	U	36.3	ug/kg	10.9	36.3
106-47-8	4-Chloroaniline	U	363	ug/kg	72.5	363
87-68-3	Hexachlorobutadiene	U	363	ug/kg	72.5	363
91-57-6	2-Methylnaphthalene	U	36.3	ug/kg	7.25	36.3
77-47-4	Hexachlorocyclopentadiene	U	363	ug/kg	72.5	363
88-06-2	2,4,6-Trichlorophenol	U	363	ug/kg	72.5	363
95-95-4	2,4,5-Trichlorophenol	U	363	ug/kg	72.5	363
91-58-7	2-Chloronaphthalene	U	36.3	ug/kg	12.0	36.3
88-74-4	2-Nitroaniline	U	363	ug/kg	72.5	363
99-09-2	o-Nitroaniline	U	363	ug/kg	72.5	363
	3-Nitroaniline					

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490004

Client ID: RE12-10-7291
Batch ID: 937095
Run Date: 01/04/2010 14:39
Prep Date: 12/28/2009 21:32
Data File: s7a0411.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7J
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
% Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
606-20-2	Dimethylphthalate	U	363	ug/kg	72.5	363
208-96-8	2,6-Dinitrotoluene	U	363	ug/kg	36.3	363
51-28-5	Acenaphthylene	U	36.3	ug/kg	10.9	36.3
132-64-9	2,4-Dinitrophenol	U	725	ug/kg	138	725
84-66-2	Dibenzofuran	U	363	ug/kg	72.5	363
86-73-7	Diethylphthalate	U	363	ug/kg	72.5	363
7005-72-3	Fluorene	U	36.3	ug/kg	10.9	36.3
534-52-1	4-Chlorophenylphenylether	U	363	ug/kg	72.5	363
100-01-6	2-Methyl-4,6-dinitrophenol	U	363	ug/kg	72.5	363
122-39-4	4-Nitroaniline	U	363	ug/kg	109	363
122-66-7	<i>p</i> -Nitroaniline					
101-55-3	Diphenylamine	U	363	ug/kg	72.5	363
118-74-1	Azobenzene	U	363	ug/kg	72.5	363
85-01-8	<i>1,2</i> -Diphenylhydrazine					
120-12-7	4-Bromophenylphenylether	U	363	ug/kg	72.5	363
84-74-2	Hexachlorobenzene	U	363	ug/kg	72.5	363
206-44-0	Phenanthrene	U	36.3	ug/kg	10.9	36.3
85-68-7	Anthracene	U	36.3	ug/kg	7.25	36.3
56-55-3	Di-n-butylphthalate	U	363	ug/kg	72.5	363
91-94-1	Fluoranthene	U	36.3	ug/kg	10.9	36.3
218-01-9	Butylbenzylphthalate	U	363	ug/kg	72.5	363
117-81-7	Benzo(a)anthracene	U	36.3	ug/kg	10.9	36.3
117-84-0	3,3'-Dichlorobenzidine	U	363	ug/kg	109	363
205-99-2	Chrysene	U	36.3	ug/kg	10.9	36.3
207-08-9	bis(2-Ethylhexyl)phthalate	U	363	ug/kg	72.5	363
50-32-8	Di-n-octylphthalate	U	363	ug/kg	72.5	363
193-39-5	Benzo(b)fluoranthene	J	36.1	ug/kg	10.9	36.3
53-70-3	Benzo(k)fluoranthene	U	36.3	ug/kg	10.9	36.3
191-24-2	Benzo(a)pyrene	J	12.6	ug/kg	10.9	36.3
120-82-1	Indeno(1,2,3-cd)pyrene	J	16.3	ug/kg	10.9	36.3
	Dibenzo(a,h)anthracene	U	36.3	ug/kg	10.9	36.3
	Benzo(ghi)perylene	J	18.2	ug/kg	10.9	36.3
	1,2,4-Trichlorobenzene	U	363	ug/kg	72.5	363

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.1	376	ug/kg		J
	Unknown Aldol Condensate	3	369	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490004

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.02 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8.2
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	455	ug/kg	97	NJ
301-02-0	9-Octadecenamide, (Z)-	10.4	246	ug/kg	95	NJ
	Unknown	13.24	1340	ug/kg		J
	Unknown	13.74	232	ug/kg		J

Data File: /chem/MSD7.i/s010410.b/s7a0411.d
Report Date: 04-Jan-2010 16:13

Page 1

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GEL Laboratories, LLC

Data file : /chem/MSD7.i/s010410.b/s7a0411.d
Lab Smp Id: 243490004 Client Smp ID: RE12-10-7291
Inj Date : 04-JAN-2010 14:39
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490004|937095|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	8.16060	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	293940	40.0000	
* 29 Naphthalene-d8	136	4.818	4.823	(1.000)	1103324	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.075	(1.000)	642613	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.240	(1.000)	1234063	40.0000	
* 91 Chrysene-d12	240	9.634	9.643	(1.000)	1232555	40.0000	
* 98 Perylene-d12	264	11.300	11.309	(1.000)	1009129	40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.798)	538942	68.4823	2480
\$ 5 Phenol-d5	99	3.672	3.667	(0.927)	674555	69.1337	2510
\$ 20 Nitrobenzene-d5	82	4.317	4.317	(0.896)	317022	37.4303	1360
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	666651	38.3428	1390
\$ 60 2,4,6-Tribromophenol	329	6.663	6.667	(1.098)	212813	98.2190	3560
\$ 81 p-Terphenyl-d14	244	8.613	8.613	(0.894)	892965	43.2046	1570

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
95 Benzo(b)fluoranthene	252	10.784	10.794	(0.954)	24915		0.99454	36.1(a)
97 Benzo(a)pyrene	252	11.218	11.232	(0.993)	7732		0.34695	12.6(a)
99 Indeno(1,2,3-cd)pyrene	276	13.038	13.062	(1.154)	9981		0.44934	16.3(a)
101 Benzo(ghi)perylene	276	13.572	13.596	(1.201)	9531		0.50165	18.2(a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s7a0411.d

Report Date: 01/04/2010 15:52

Lab. ID: 243490004

SampleType: SAMPLE

Injection Date: 04-JAN-2010 14:39

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490004|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

4 Aniline CAS#: 62-53-3						
66	35932	3.67	3.74	80-120	100	(T)
93	333	3.73	3.74	185-245	1	(Q)

17 N-Nitrosodipropylamine CAS#: 621-64-7						
70	46876	4.32	4.19	80-120	100	(T)
42	28848	4.32	4.19	41-101	62	(T)

27 Benzoic acid CAS#: 65-85-0						
105	974	4.82	4.58	80-120	100	(T)
122	156	4.82	4.58	55-115	16	(QT)
77	3855	4.82	4.58	55-115	395	(QT)

43 Dimethylphthalate CAS#: 131-11-3						
163	112203	6.07	5.83	80-120	100	(T)
164	642613	6.07	5.83	0- 40	573	(QT)

44 2,6-Dinitrotoluene CAS#: 606-20-2						
165	84525	6.07	5.89	80-120	100	(T)
63	933	6.07	5.89	35- 95	1	(QT)

50 2,4-Dinitrotoluene CAS#: 121-14-2						
165	84525	6.07	6.19	80-120	100	(T)
89	1303	6.07	6.19	39- 99	2	(QT)
63	933	6.07	6.19	17- 77	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
53 Fluorene		CAS#: 86-73-7				
166	10779	6.66	6.48	80-120	100	(T)
165	11280	6.66	6.48	59-119	105	(T)
167	3675	6.66	6.48	0- 44	34	(T)

55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	650	6.66	6.49	80-120	100	(T)
105	1760	6.66	6.49	11- 71	271	(QT)
51	1370	6.66	6.49	34- 94	211	(QT)

61 4-Bromophenylphenylether		CAS#: 101-55-3				
248	13192	6.66	6.85	80-120	100	(T)
141	88521	6.66	6.85	42-102	671	(QT)
250	26963	6.66	6.85	68-128	204	(QT)

92 Chrysene		CAS#: 218-01-9				
228	8682	9.63	9.67	80-120	100	()
229	4575	9.62	9.67	0- 50	53	(Q)
226	1787	9.62	9.67	0- 60	21	()

95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	24915	10.78	10.79	80-120	100	()
253	6594	10.78	10.79	0- 52	26	()
125	3953	10.79	10.79	0- 40	16	()

96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	24915	10.78	10.83	80-120	100	()
253	6594	10.78	10.83	0- 52	26	()
125	3953	10.79	10.83	0- 41	16	()

97 Benzo(a)pyrene		CAS#: 50-32-8				
252	7732	11.22	11.23	80-120	100	()
253	2222	11.21	11.23	0- 52	29	()
125	1183	11.22	11.23	0- 42	15	()

99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	9981	13.04	13.06	80-120	100	()
138	2764	13.03	13.06	0- 59	28	()

101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	9531	13.57	13.60	80-120	100	()
138	2381	13.58	13.60	0- 55	25	()

Q qualifier indicates ion failed ratio requirement

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Data file : /chem/MSD7.i/s010410.b/s7a0411.d
Lab Smp Id: 243490004 Client Smp ID: RE12-10-7291
Inj Date : 04-JAN-2010 14:39
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490004|937095|1|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.02000	weight of sample
M	8.16060	% moisture

Cpnd Variable

Local Compound Variable

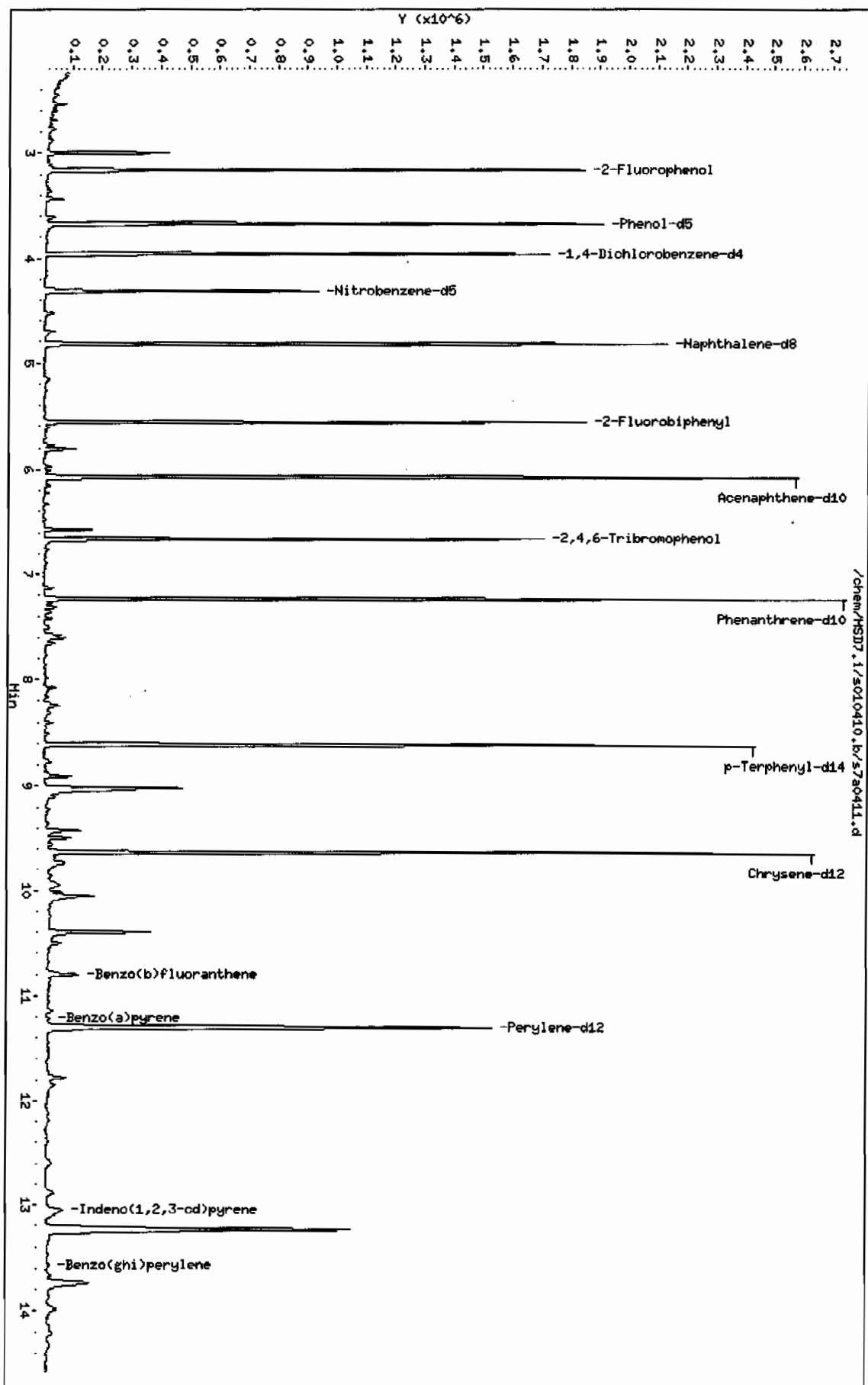
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.961	1760202	40.000
* 91 Chrysene-d12	9.634	3248267	40.000
* 98 Perylene-d12	11.300	2632686	40.000

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

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown					CAS #:		
2.098	456319	10.3697027	376	0		0	10
Unknown Aldol Condensate					CAS #:		
2.998	447838	10.1769756	369	0		0	10
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
9.017	1018346	12.5401733	455	97	NIST05.L	116239	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.399	550058	6.77355631	246	95	NIST05.L	112656	91
Unknown					CAS #:		
13.240	2427824	36.8873893	1340	0		0	98
Unknown					CAS #:		
13.736	420737	6.39251017	232	0		0	98

Data File: /chem/MSD7.1/s010410.b/s7a0411.d
 Date: 04-JAN-2010 14:39
 Client ID: RE12-10-7291
 Sample Info: 124390004193709511SUMF11LPMIL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: MSD7.1
 Operator: JHB3
 Column diameter: 0.20



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: MSD7.i

Sample Info: 1243490004193709511ISVHF11ILANL

Volume Injected (uL): 0.5

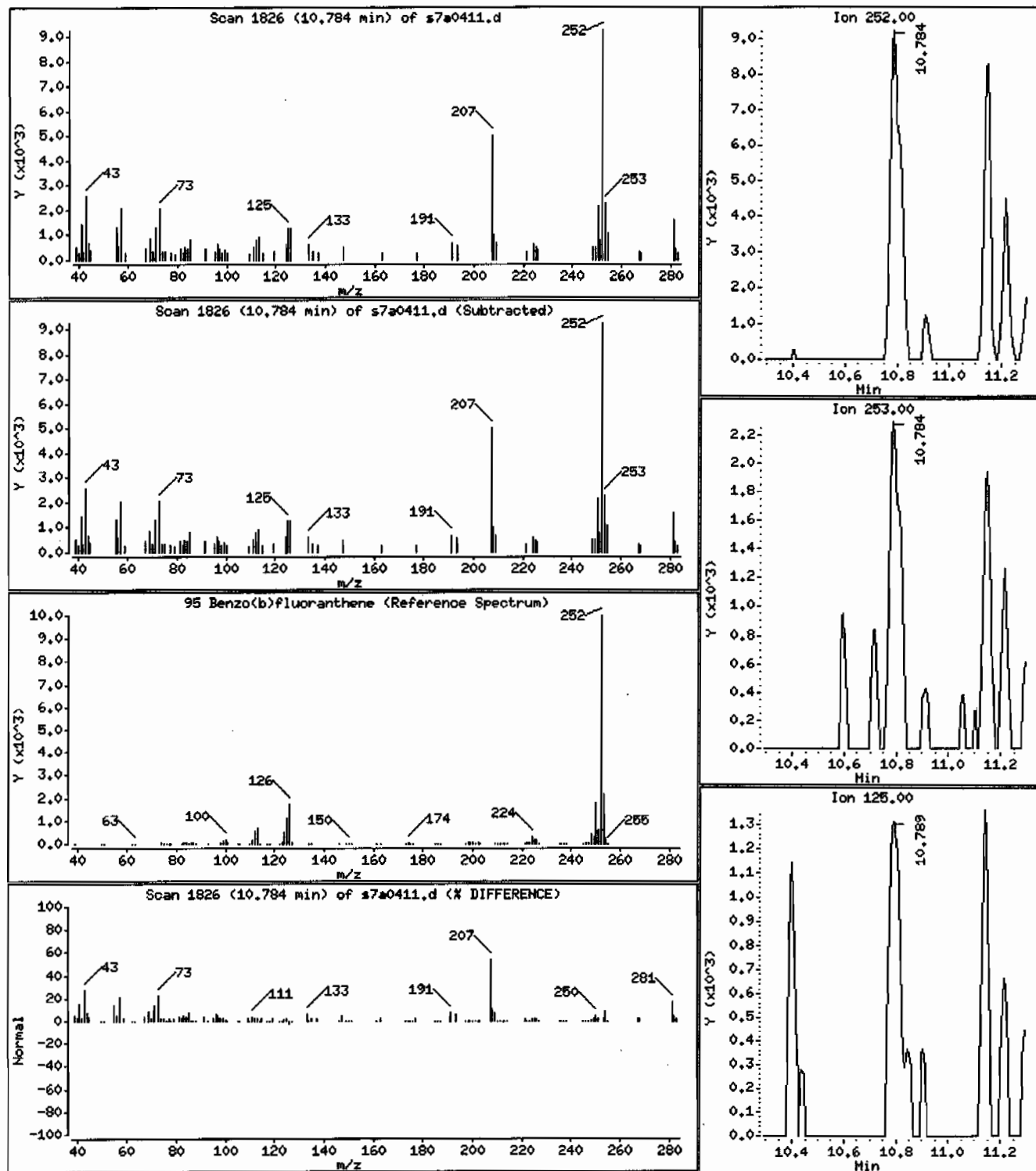
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 36,1 ug/Kg



Data File: /chem/HSD7.i/s010410.b/s7a0411.d

Page 3

Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.i

Sample Info: 1243490004|93709511|SVHF11|LANL

Volume Injected (uL): 0.5

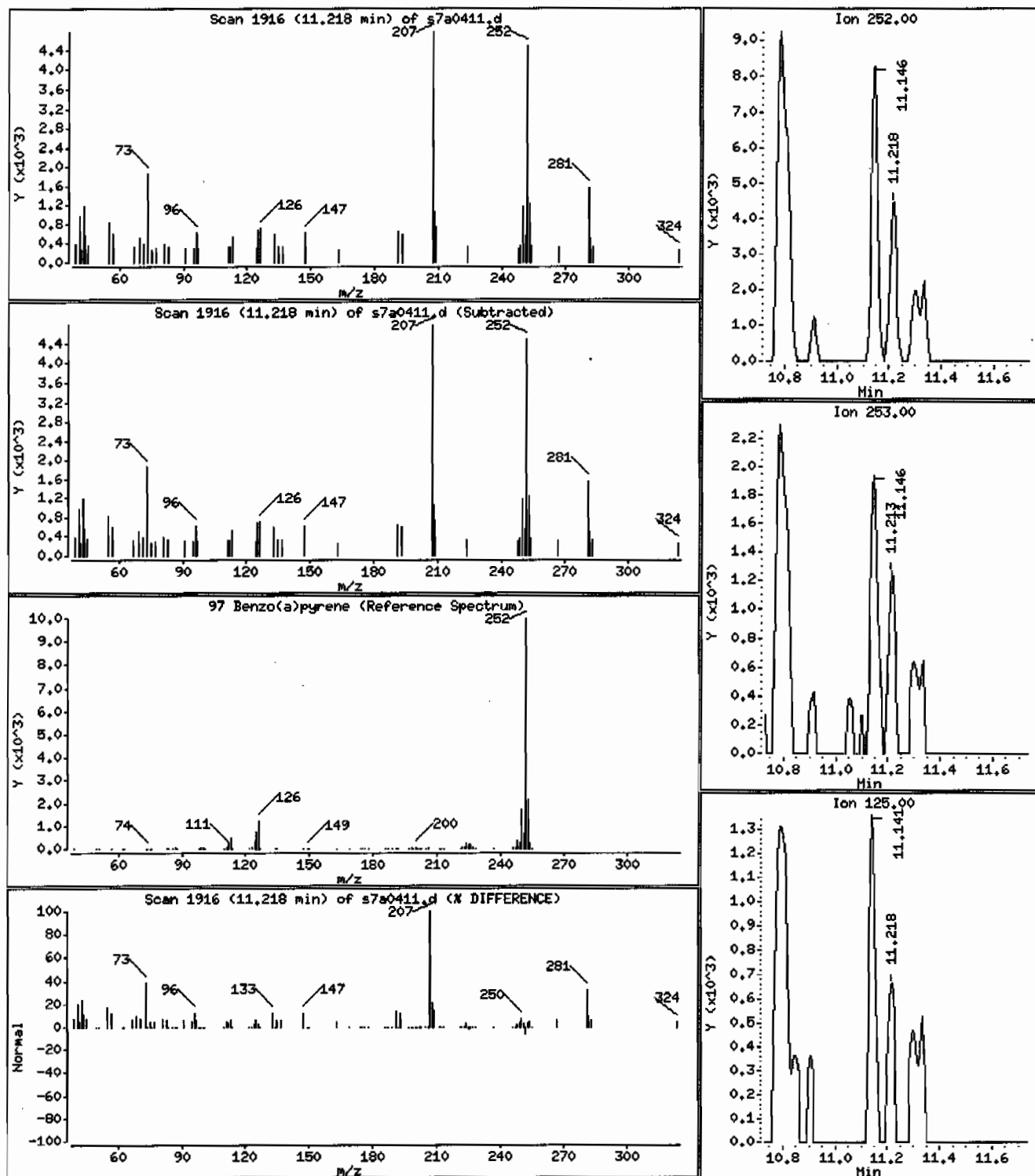
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 12.6 ug/Kg



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.i

Sample Info: 1243490004193709511|SVHF11|LANL

Volume Injected (uL): 0.5

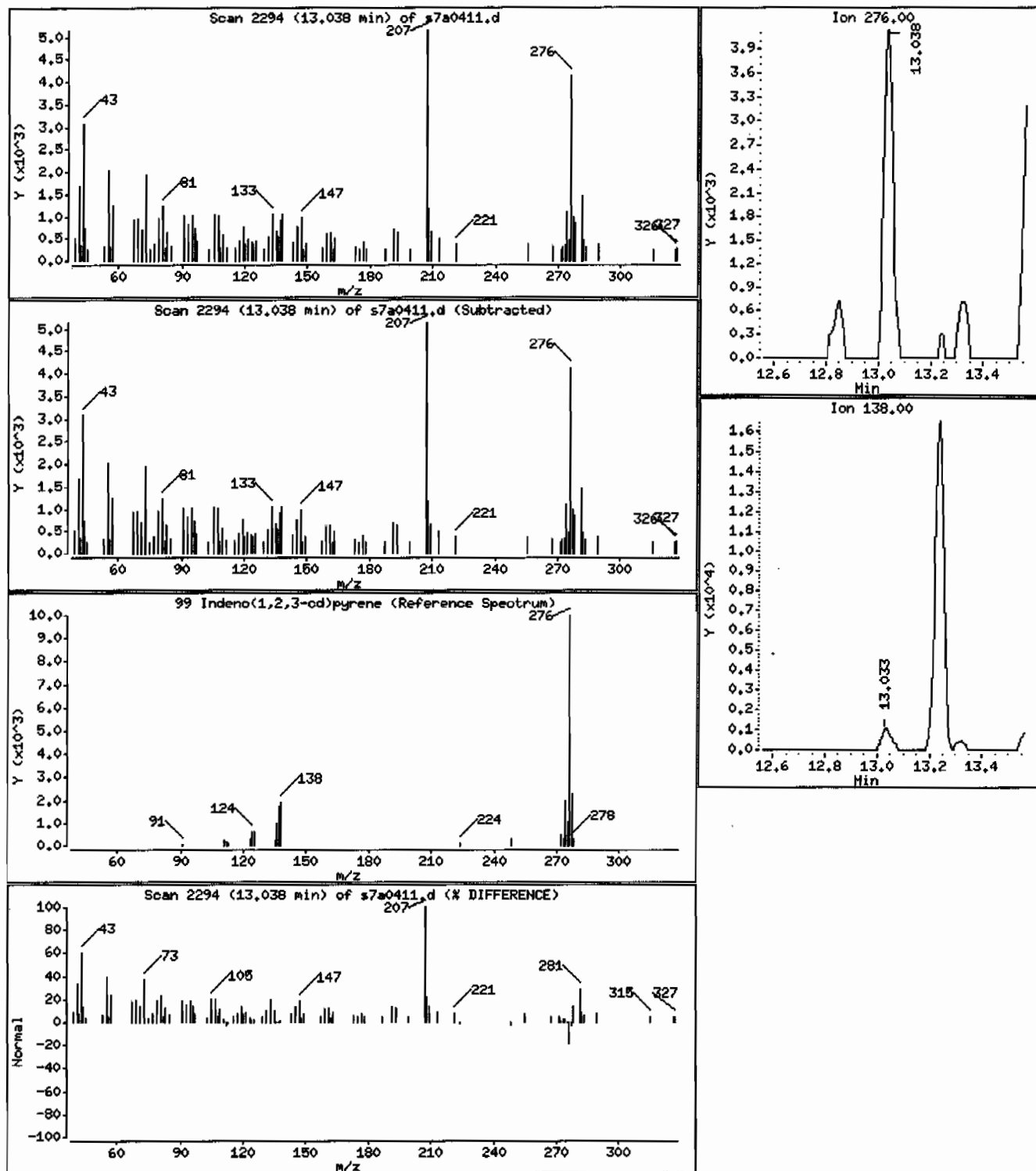
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 16.3 ug/Kg



Data File: /chem/HSD7.1/s010410,b/s7a0411.d

Page 5

Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.1

Sample Info: 1243490004193709511SVHF111LANL

Volume Injected (uL): 0.5

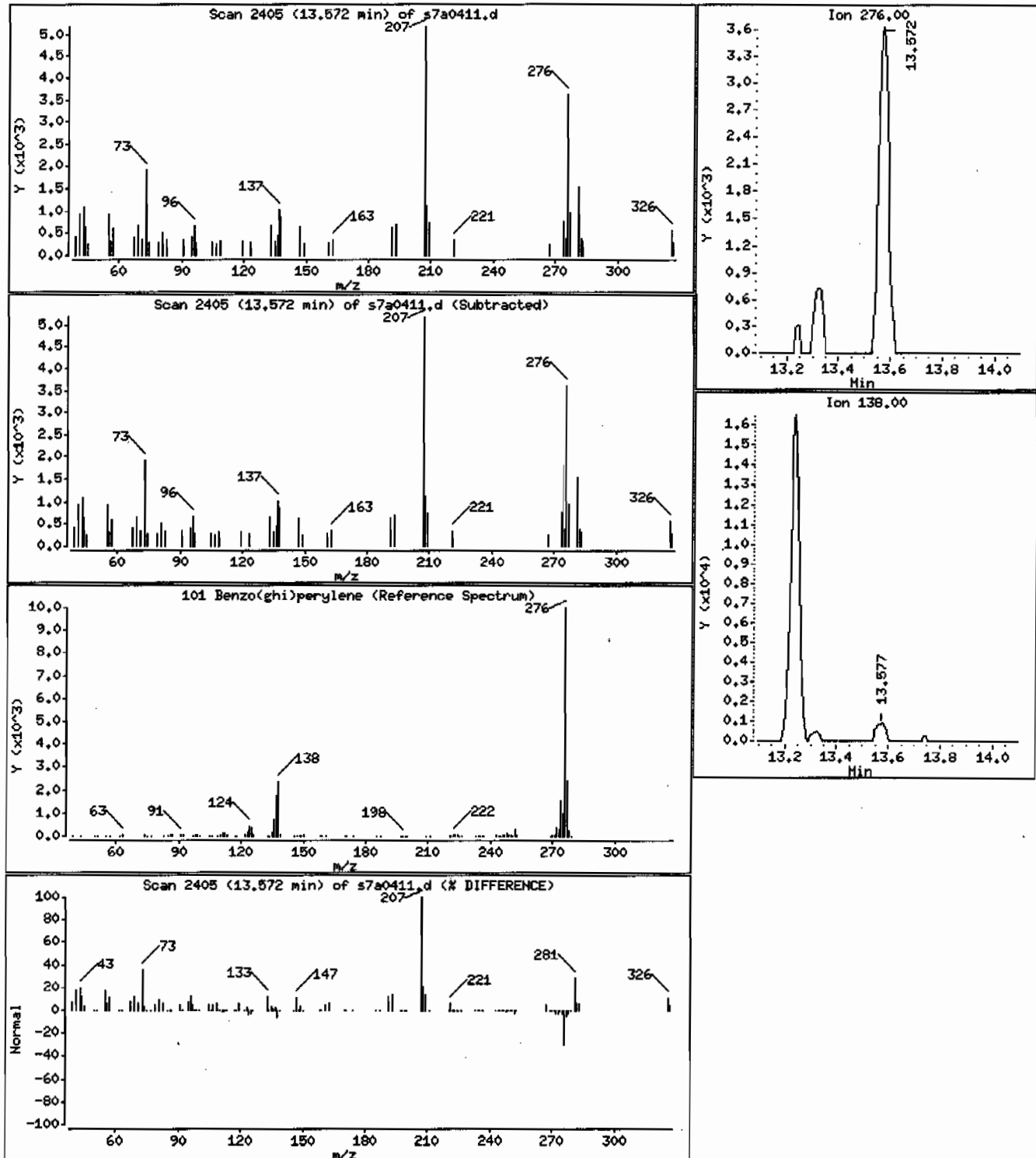
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 18.2 ug/Kg



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.i

Sample Info: 12434900041937095111SVMF111LANL

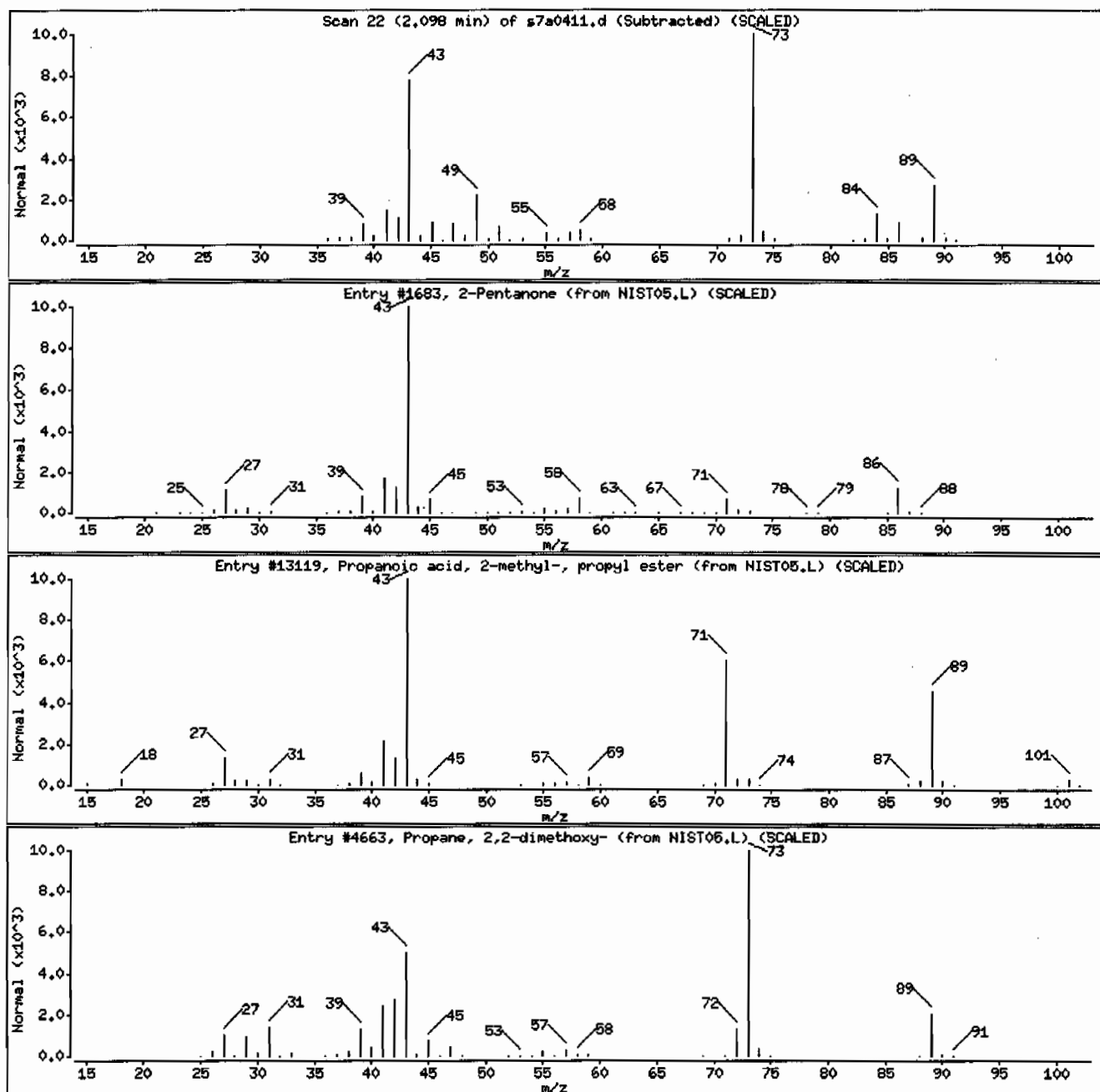
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentanone	107-87-9	NIST05.L	1683	10	C5H10O	86
Propanoic acid, 2-methyl-, propyl ester	644-49-5	NIST05.L	13119	10	C7H14O2	130
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	10	C5H12O2	104



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.1

Sample Info: 1243490004193709511SVHF111LANL

Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

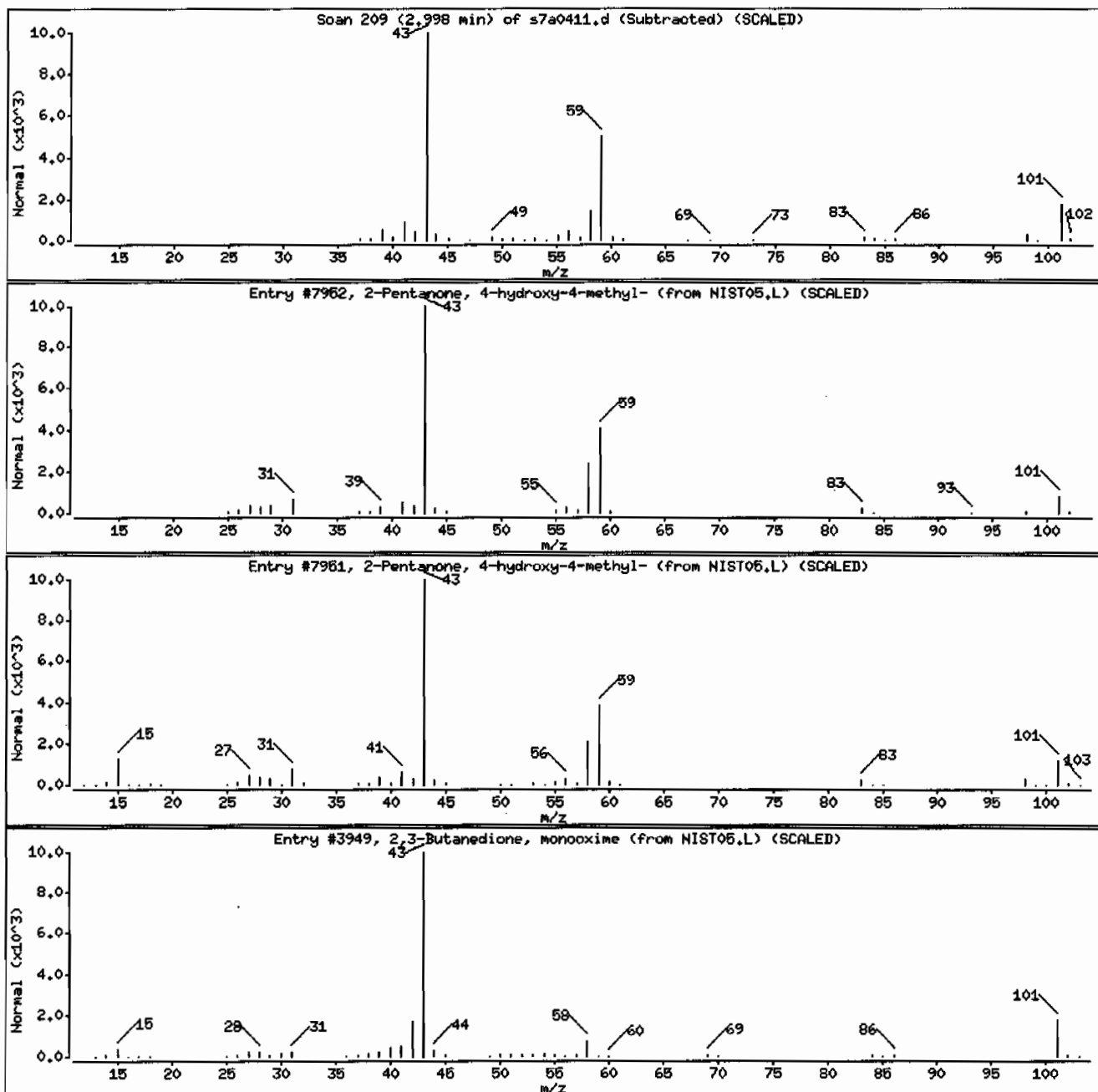
Unknown Aldol Condensate

2-Pentanone, 4-hydroxy-4-methyl-

2-Pentanone, 4-hydroxy-4-methyl-

2,3-Butanedione, monooxime

CAS Number	Library	Entry	Quality	Formula	Weight
123-42-2	NIST05.L	7952	50	C6H12O2	116
123-42-2	NIST05.L	7951	38	C6H12O2	116
57-71-6	NIST05.L	3949	27	C4H7NO2	101



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.i

Sample Info: I243490004I937095I1SVHF11ILANL

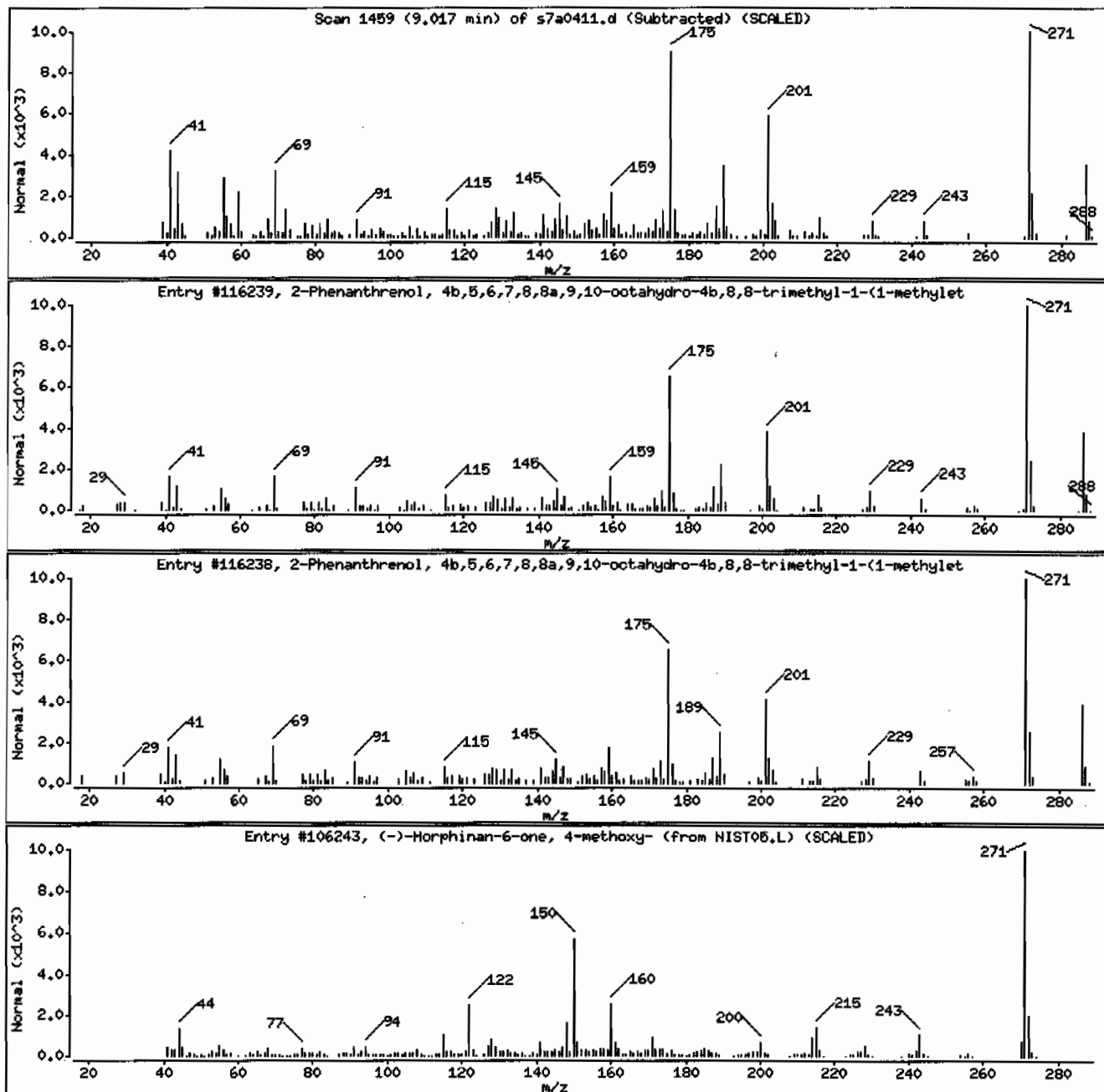
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	97	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	95	C20H30O	286
(-)-Morphinan-6-one, 4-methoxy-	1000129-09-1	NIST05.L	106243	25	C17H21NO2	271



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: MSD7.i

Sample Info: 1243490004193709511SVHF111LANL

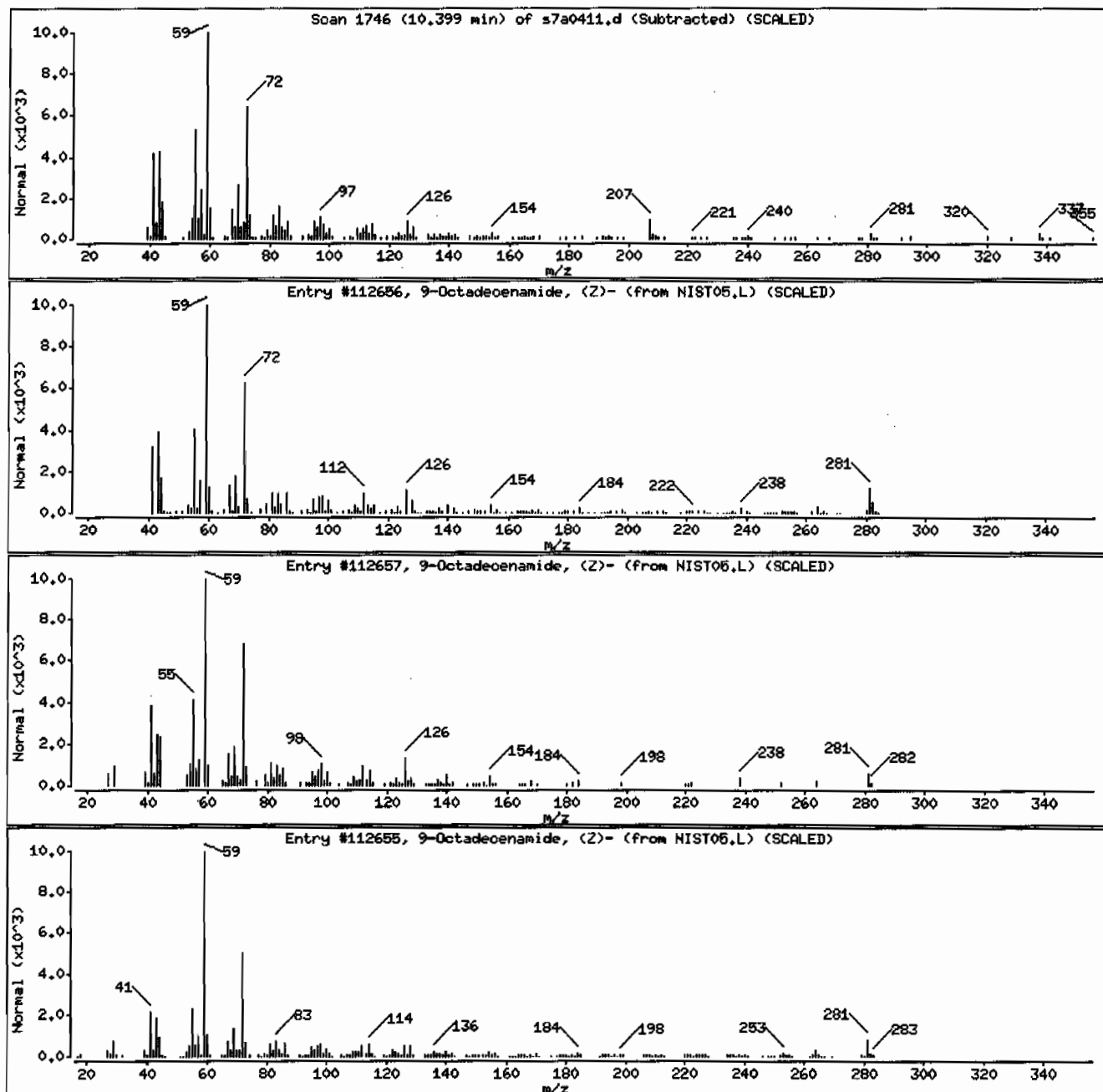
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	96	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	86	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	83	C18H35NO	281



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: HSD7.i

Sample Info: 12434900041937095111SVMF111LANL

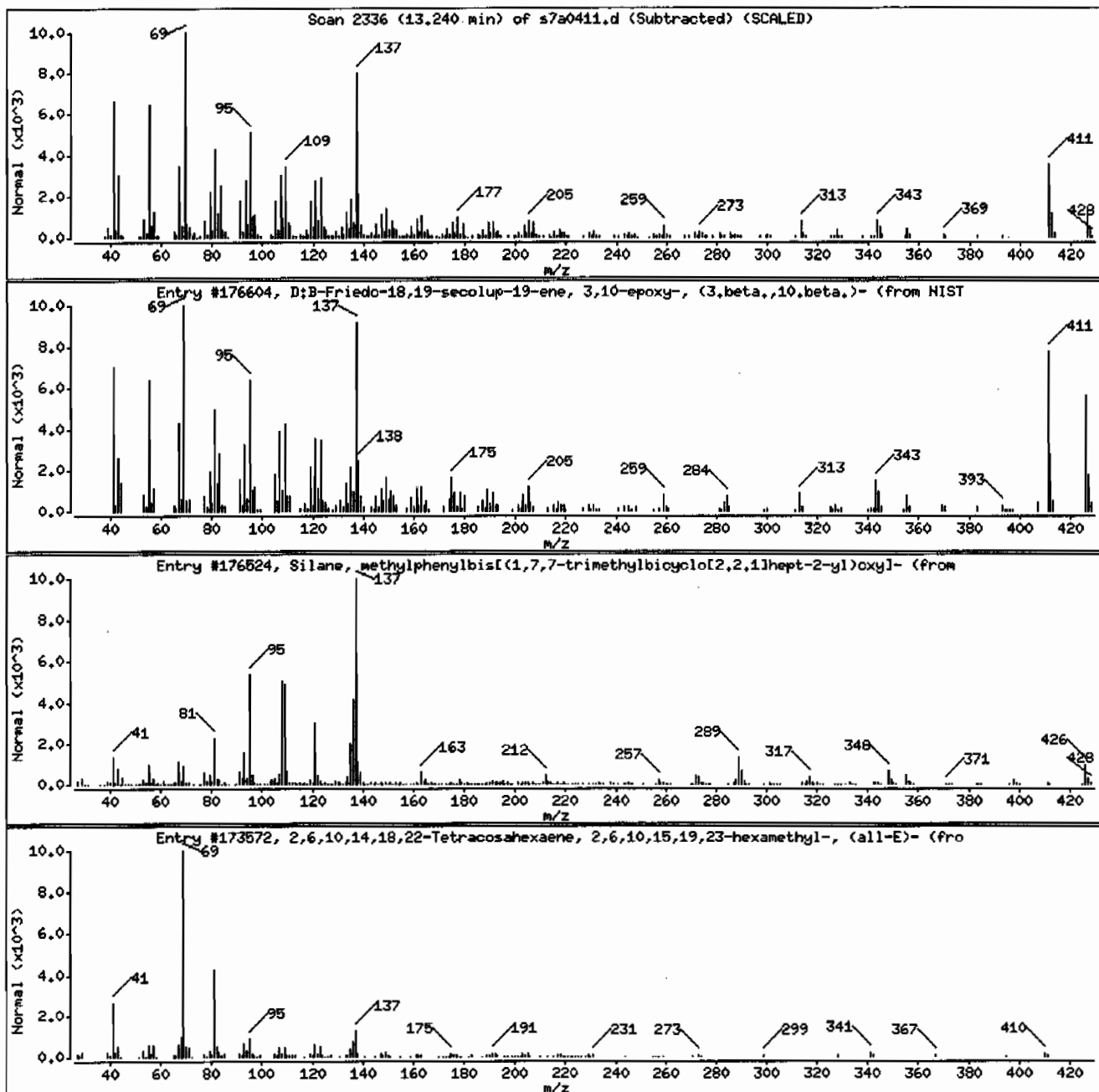
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
D;B-Friedo-18,19-secolup-19-ene, 3,10-ep	35060-26-5	NIST05.L	176604	72	C30H50O	426
Silane, methylphenylbis[(1,7,7-trimethyl	74806-99-8	NIST05.L	176524	43	C27H42O2Si	426
2,6,10,14,18,22-Tetracosahexaene, 2,6,10	111-02-4	NIST05.L	173572	38	C30H50	410



Date : 04-JAN-2010 14:39

Client ID: RE12-10-7291

Instrument: MSD7.i

Sample Info: 1243490004193709511SVHF111LANL

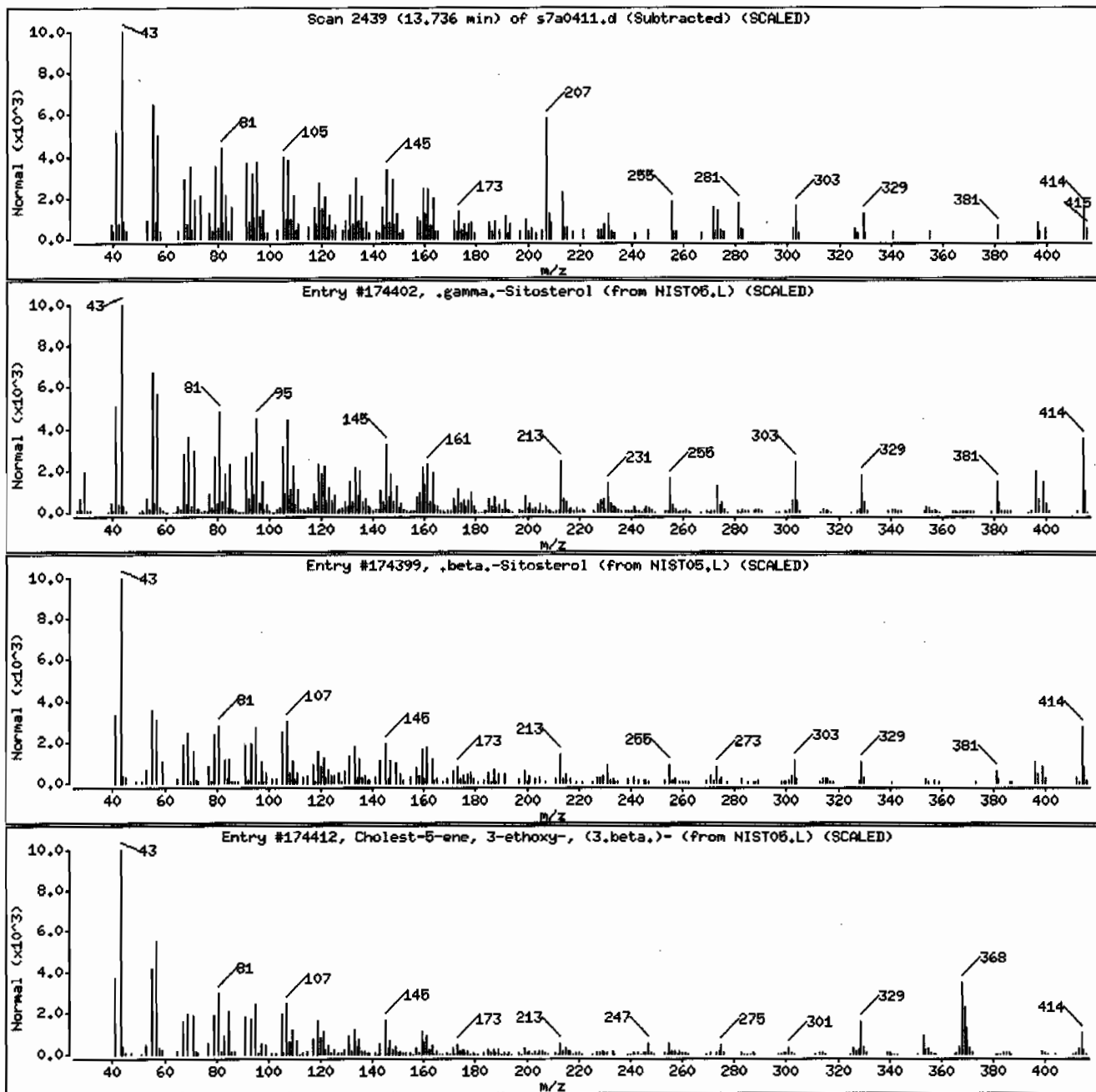
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
.gamma.-Sitosterol	83-47-6	NIST05.L	174402	60	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	49	C ₂₉ H ₅₀ O	414
Cholest-5-ene, 3-ethoxy-, (3.beta.)-	986-19-6	NIST05.L	174412	47	C ₂₉ H ₅₀ O	414



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

SDG Number: 10-1036
Lab Sample ID: 243490005

Client ID: RE12-10-7292
Batch ID: 937095
Run Date: 01/02/2010 21:31
Prep Date: 12/28/2009 21:32
Data File: s7a0217.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	352	ug/kg	70.5	352
108-95-2	Phenol	U	352	ug/kg	70.5	352
95-57-8	2-Chlorophenol	U	352	ug/kg	70.5	352
106-46-7	1,4-Dichlorobenzene	U	352	ug/kg	70.5	352
621-64-7	N-Nitrosodipropylamine	U	352	ug/kg	70.5	352
59-50-7	4-Chloro-3-methylphenol	U	352	ug/kg	70.5	352
83-32-9	Acenaphthene	U	35.2	ug/kg	11.6	35.2
121-14-2	2,4-Dinitrotoluene	U	352	ug/kg	35.2	352
100-02-7	4-Nitrophenol	U	352	ug/kg	116	352
87-86-5	Pentachlorophenol	U	352	ug/kg	88.1	352
129-00-0	Pyrene	U	35.2	ug/kg	10.6	35.2
110-86-1	Pyridine	U	352	ug/kg	70.5	352
62-53-3	Aniline	U	352	ug/kg	106	352
111-44-4	bis(2-Chloroethyl) ether	U	352	ug/kg	70.5	352
541-73-1	1,3-Dichlorobenzene	U	352	ug/kg	70.5	352
100-51-6	Benzyl alcohol	U	352	ug/kg	106	352
95-50-1	1,2-Dichlorobenzene	U	352	ug/kg	70.5	352
108-60-1	bis(2-Chloroisopropyl) ether	U	352	ug/kg	70.5	352
95-48-7	o-Cresol	U	352	ug/kg	70.5	352
65794-96-9	m,p-Cresols	U	352	ug/kg	106	352
67-72-1	Hexachloroethane	U	352	ug/kg	70.5	352
98-95-3	Nitrobenzene	U	352	ug/kg	70.5	352
78-59-1	Isophorone	U	352	ug/kg	70.5	352
88-75-5	2-Nitrophenol	U	352	ug/kg	70.5	352
105-67-9	2,4-Dimethylphenol	U	352	ug/kg	123	352
111-91-1	bis(2-Chloroethoxy)methane	U	352	ug/kg	70.5	352
120-83-2	2,4-Dichlorophenol	U	352	ug/kg	70.5	352
65-85-0	Benzoic acid	U	705	ug/kg	176	705
91-20-3	Naphthalene	U	35.2	ug/kg	10.6	35.2
106-47-8	4-Chloroaniline	U	352	ug/kg	70.5	352
87-68-3	Hexachlorobutadiene	U	352	ug/kg	70.5	352
91-57-6	2-Methylnaphthalene	U	35.2	ug/kg	7.05	35.2
77-47-4	Hexachlorocyclopentadiene	U	352	ug/kg	70.5	352
88-06-2	2,4,6-Trichlorophenol	U	352	ug/kg	70.5	352
95-95-4	2,4,5-Trichlorophenol	U	352	ug/kg	70.5	352
91-58-7	2-Chloronaphthalene	U	35.2	ug/kg	11.6	35.2
88-74-4	2-Nitroaniline	U	352	ug/kg	70.5	352
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	352	ug/kg	70.5	352

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

SDG Number: 10-1036
Lab Sample ID: 243490005

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	352	ug/kg	70.5	352
606-20-2	2,6-Dinitrotoluene	U	352	ug/kg	35.2	352
208-96-8	Acenaphthylene	U	35.2	ug/kg	10.6	35.2
51-28-5	2,4-Dinitrophenol	U	705	ug/kg	134	705
132-64-9	Dibenzofuran	U	352	ug/kg	70.5	352
84-66-2	Diethylphthalate	U	352	ug/kg	70.5	352
86-73-7	Fluorene	U	35.2	ug/kg	10.6	35.2
7005-72-3	4-Chlorophenylphenylether	U	352	ug/kg	70.5	352
534-52-1	2-Methyl-4,6-dinitrophenol	U	352	ug/kg	70.5	352
100-01-6	4-Nitroaniline	U	352	ug/kg	106	352
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	352	ug/kg	70.5	352
122-66-7	Azobenzene	U	352	ug/kg	70.5	352
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	352	ug/kg	70.5	352
118-74-1	Hexachlorobenzene	U	352	ug/kg	70.5	352
85-01-8	Phenanthrene	U	35.2	ug/kg	10.6	35.2
120-12-7	Anthracene	U	35.2	ug/kg	7.05	35.2
84-74-2	Di-n-butylphthalate	U	352	ug/kg	70.5	352
206-44-0	Fluoranthene	U	35.2	ug/kg	10.6	35.2
85-68-7	Butylbenzylphthalate	U	352	ug/kg	70.5	352
56-55-3	Benzo(a)anthracene	J	23.1	ug/kg	10.6	35.2
91-94-1	3,3'-Dichlorobenzidine	U	352	ug/kg	106	352
218-01-9	Chrysene	J	27.0	ug/kg	10.6	35.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	352	ug/kg	70.5	352
117-84-0	Di-n-octylphthalate	U	352	ug/kg	70.5	352
205-99-2	Benzo(b)fluoranthene	J	26.0	ug/kg	10.6	35.2
207-08-9	Benzo(k)fluoranthene	U	35.2	ug/kg	10.6	35.2
50-32-8	Benzo(a)pyrene	J	18.7	ug/kg	10.6	35.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.2	ug/kg	10.6	35.2
53-70-3	Dibenzo(a,h)anthracene	U	35.2	ug/kg	10.6	35.2
191-24-2	Benzo(ghi)perylene	U	35.2	ug/kg	10.6	35.2
120-82-1	1,2,4-Trichlorobenzene	U	352	ug/kg	70.5	352

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3	250	ug/kg		J
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	159	ug/kg	99	NJ

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 3 of 3

SDG Number: 10-1036
Lab Sample ID: 243490005

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.19 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
77-53-2	Cedrol	6.57	254	ug/kg	94	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.01	523	ug/kg	97	NJ
	Unknown	9.72	237	ug/kg		J
	Unknown	10.05	155	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.39	202	ug/kg	95	NJ
	Unknown	13.22	294	ug/kg		J

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Data file : /chem/MSD7.i/s010210.b/s7a0217.d
 Lab Smp Id: 243490005 Client Smp ID: RE12-10-7292
 Inj Date : 02-JAN-2010 21:31
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490005|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	5.97340	% moisture

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	221232	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	881274	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	509365	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.236	(1.000)	978604	40.0000	
* 91 Chrysene-d12	240	9.634	9.638	(1.000)	1029356	40.0000	
* 98 Perylene-d12	264	11.290	11.295	(1.000)	869465	40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.798)	367272	62.0061	2180
\$ 5 Phenol-d5	99	3.672	3.672	(0.927)	480291	65.4015	2300
\$ 20 Nitrobenzene-d5	82	4.317	4.322	(0.895)	222324	32.8634	1160
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	482066	34.9794	1230
\$ 60 2,4,6-Tribromophenol	329	6.663	6.667	(1.098)	138932	80.8947	2850
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.894)	660393	38.2594	1350

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
						(ng/ul)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
89 Benzo (a) anthracene	228	9.619	9.624	(0.998)	16326	0.65690	23.1 (a)
92 Chrysene	228	9.653	9.662	(1.002)	17548	0.76734	27.0 (a)
95 Benzo (b) fluoranthene	252	10.775	10.784	(0.954)	15953	0.73909	26.0 (a)
97 Benzo (a) pyrene	252	11.208	11.218	(0.993)	10195	0.53095	18.7 (a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s7a0217.d

Report Date: 01/04/2010 08:15

Lab. ID: 243490005

SampleType: SAMPLE

Injection Date: 02-JAN-2010 21:31

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490005|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

4 Aniline		CAS#: 62-53-3				
66	25422	3.67	3.74	80-120	100	(T)
93	190	3.55	3.74	221-281	1	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	32790	4.32	4.19	80-120	100	(T)
42	21168	4.32	4.19	43-103	65	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	91069	6.07	5.83	80-120	100	(T)
164	509365	6.07	5.83	0- 40	559	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	66241	6.07	5.88	80-120	100	(T)
63	729	6.07	5.88	35- 95	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	66241	6.07	6.18	80-120	100	(T)
89	880	6.07	6.18	43-103	1	(QT)
63	729	6.07	6.18	20- 80	1	(QT)

53 Fluorene		CAS#: 86-73-7				
166	7099	6.66	6.48	80-120	100	(T)
165	6938	6.66	6.48	60-120	98	(T)
167	2356	6.66	6.48	0- 44	33	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	288	6.66	6.49	80-120	100	(T)
105	885	6.66	6.49	13- 73	307	(QT)
51	1011	6.66	6.49	48-108	350	(QT)

56 p-Nitroaniline				CAS#: 100-01-6		
138	526	6.57	6.48	80-120	100	(T)
108	6009	6.57	6.48	41-101	1141	(QT)
92	2009	6.57	6.48	16- 76	381	(QT)

89 Benzo(a)anthracene				CAS#: 56-55-3		
228	16326	9.62	9.62	80-120	100	()
226	4160	9.62	9.62	0- 56	25	()
229	5309	9.62	9.62	0- 50	33	()

92 Chrysene				CAS#: 218-01-9		
228	17548	9.65	9.66	80-120	100	()
229	4098	9.65	9.66	0- 49	23	()
226	4895	9.65	9.66	0- 58	28	()

95 Benzo(b)fluoranthene				CAS#: 205-99-2		
252	15953	10.77	10.78	80-120	100	()
253	3246	10.77	10.78	0- 53	20	()
125	3014	10.77	10.78	0- 41	19	()

96 Benzo(k)fluoranthene				CAS#: 207-08-9		
252	9117	10.80	10.82	80-120	100	()
253	2520	10.80	10.82	0- 51	28	()
125	3014	10.77	10.82	0- 41	33	()

97 Benzo(a)pyrene				CAS#: 50-32-8		
252	10195	11.21	11.22	80-120	100	()
253	2128	11.21	11.22	0- 52	21	()
125	1184	11.20	11.22	0- 42	12	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD7.i/s010210.b/s7a0217.d
 Lab Smp Id: 243490005 Client Smp ID: RE12-10-7292
 Inj Date : 02-JAN-2010 21:31
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490005|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.19000	weight of sample
M	5.97340	% moisture

Cpnd Variable

Local Compound Variable

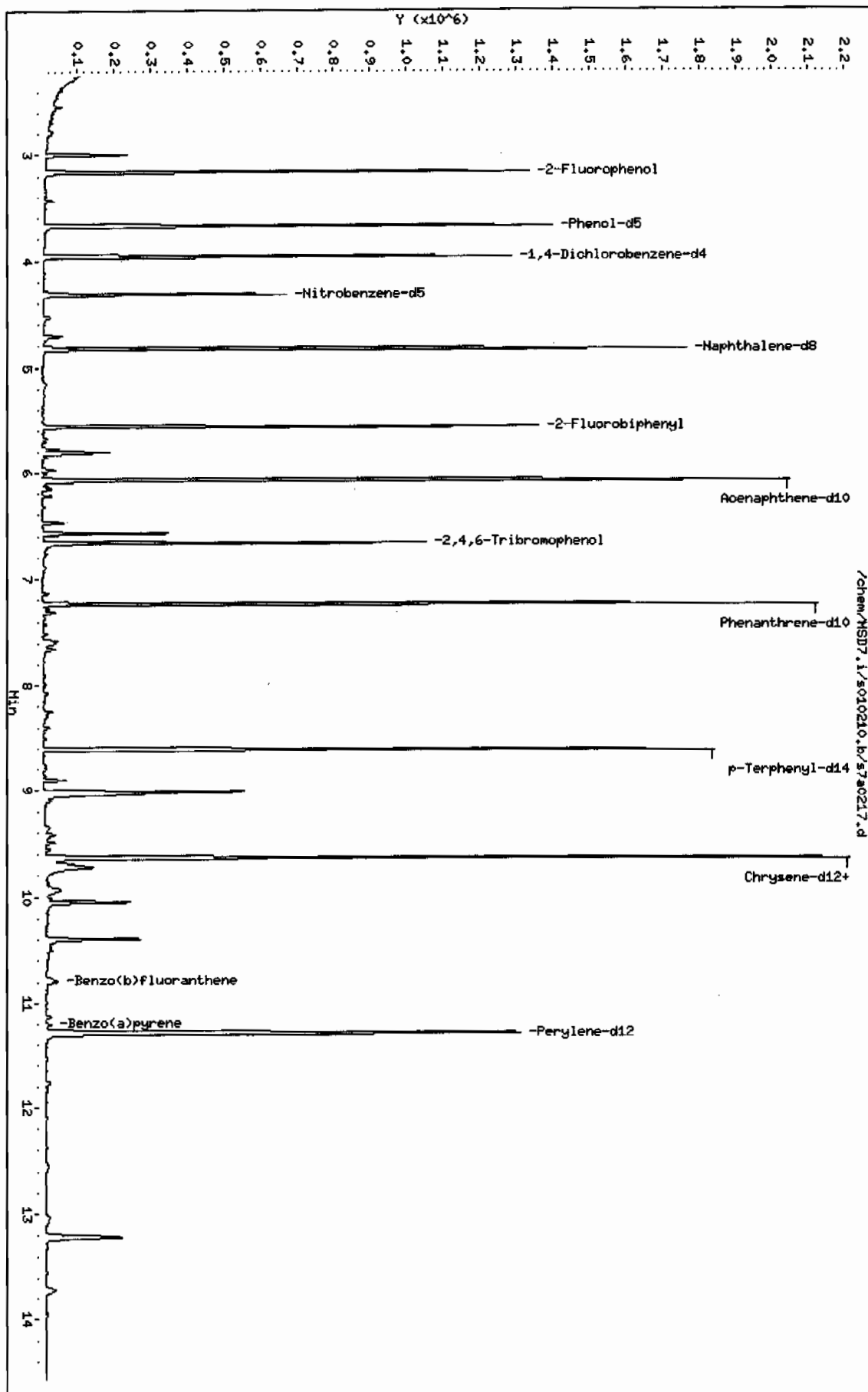
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	3.961	1334780	40.000
* 46 Acenaphthene-d10	6.070	2141471	40.000
* 91 Chrysene-d12	9.634	2766371	40.000
* 98 Perylene-d12	11.290	2229202	40.000

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

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown Aldol Condensate					CAS #:		
2.998	236410	7.08462023	250	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.805	241442	4.50982515	159	99	NIST05.L	60023	46
Cedrol					CAS #: 77-53-2		
6.571	385433	7.19940040	254	94	NIST05.L	72884	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
9.012	1025821	14.8327347	522	97	NIST05.L	116239	91
Unknown					CAS #:		
9.720	464913	6.72234765	237	0		0	91
Unknown					CAS #:		
10.048	304827	4.40760167	155	0		0	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.394	396783	5.73723960	202	95	NIST05.L	112656	91
Unknown					CAS #:		
13.216	465685	8.35608511	294	0		0	98

Data File: /chem/MSD7.i/s010210.b/s7a0217.d
 Date: 02-JAN-2010 21:31
 Client ID: RE12-10-7292
 Sample Info: 124390005193709511SVHF11L1LNL
 Volume Injected (uL): 0.5
 Column phase: 3uM DB-SMS

Instrument: MSD7.i
 Operator: JMB3
 Column diameter: 0.20



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: HSD7.i

Sample Info: 1243490005193709511|SVHF11|LANL

Volume Injected (uL): 0.5

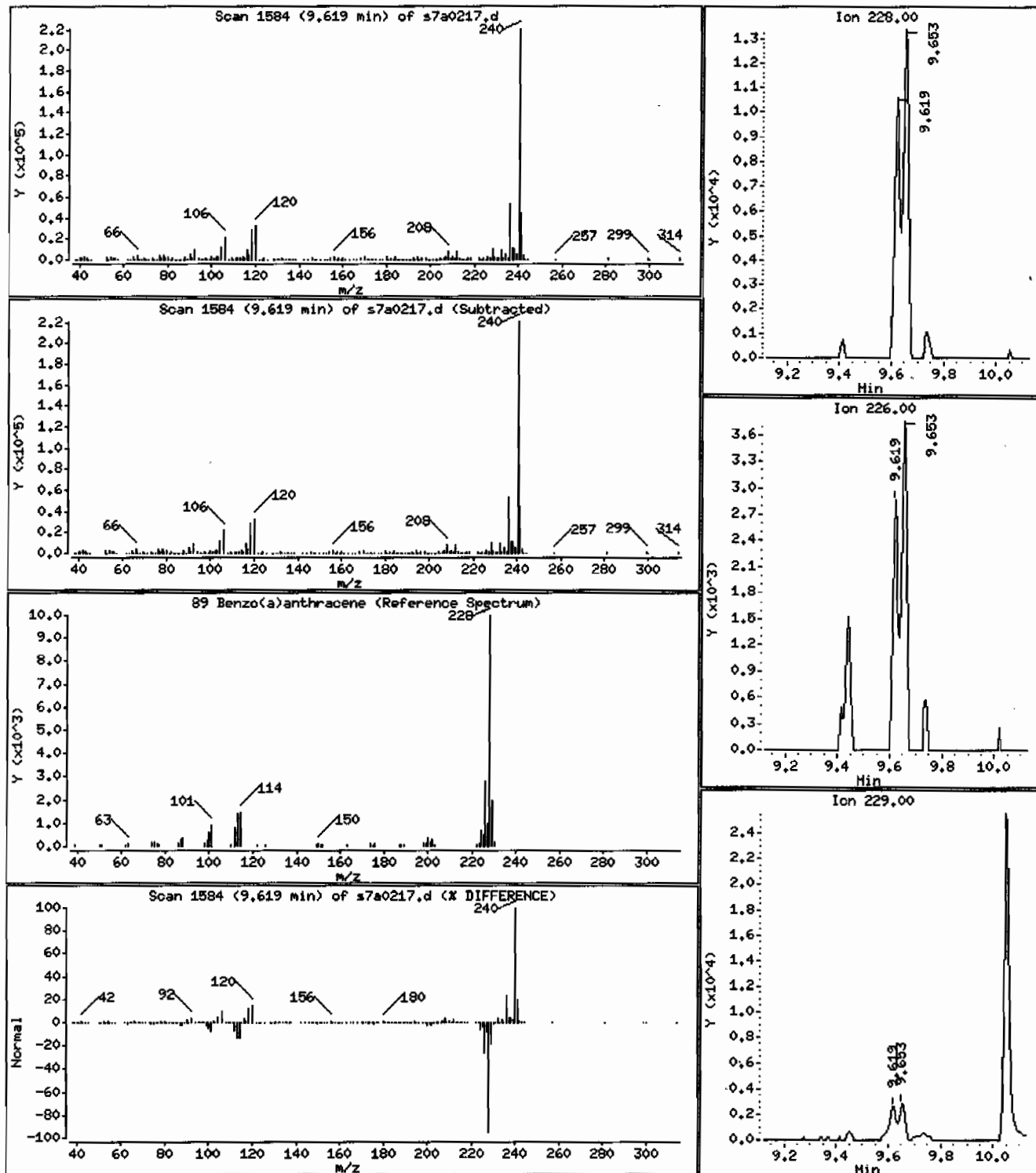
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

89 Benzo(a)anthracene

Concentration: 23.1 ug/Kg



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.i

Sample Info: 12434900051937095111SVHF111LANL

Volume Injected (uL): 0.5

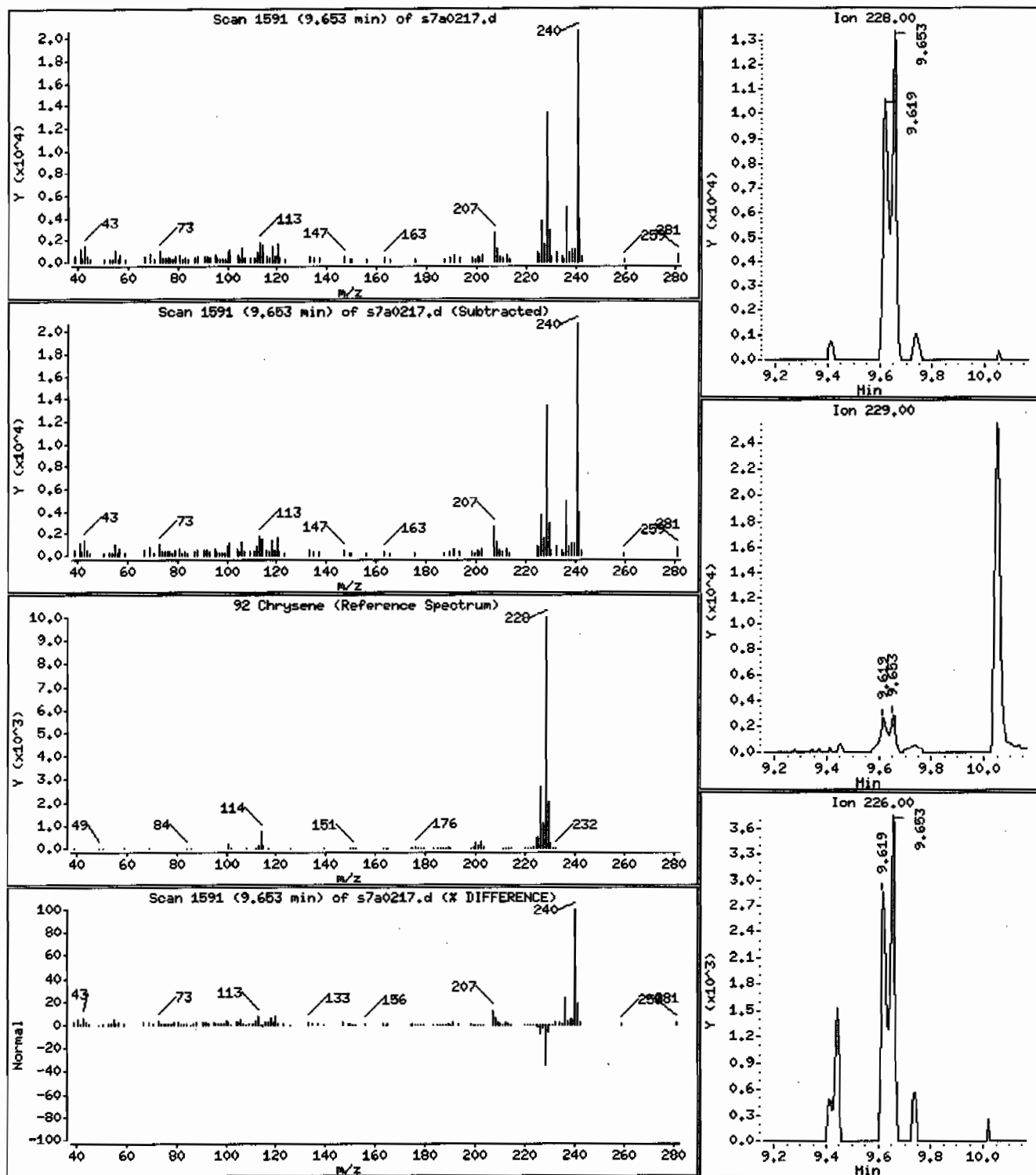
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

92 Chrysene

Concentration: 27.0 ug/Kg



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: HSD7.i

Sample Info: 12434900051937095111SVMF111LANL

Volume Injected (uL): 0.5

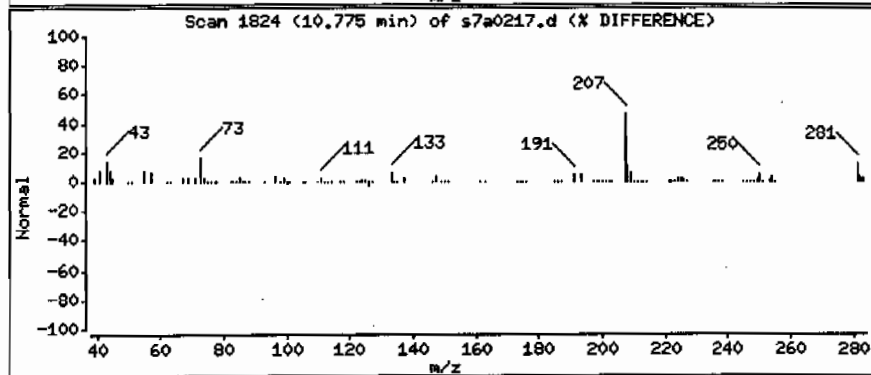
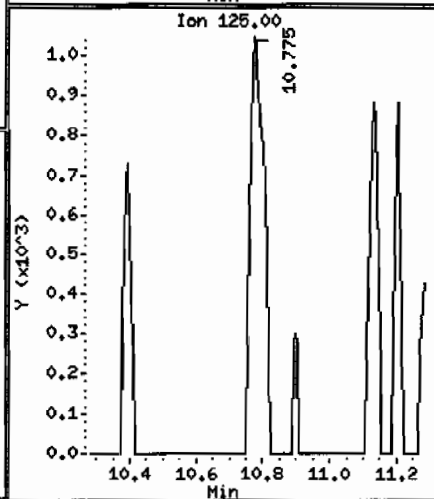
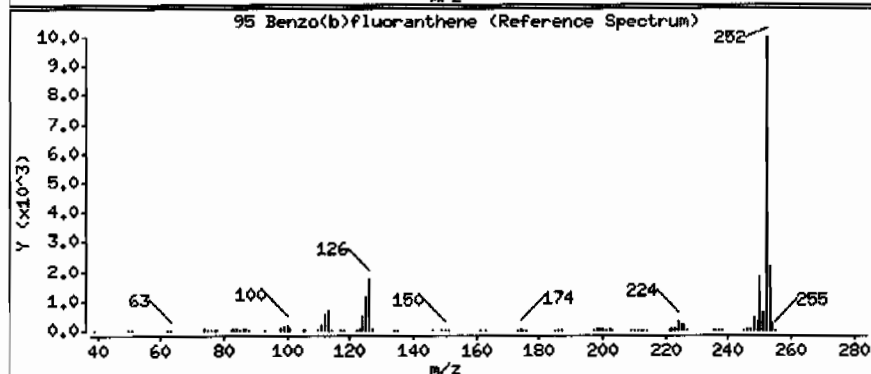
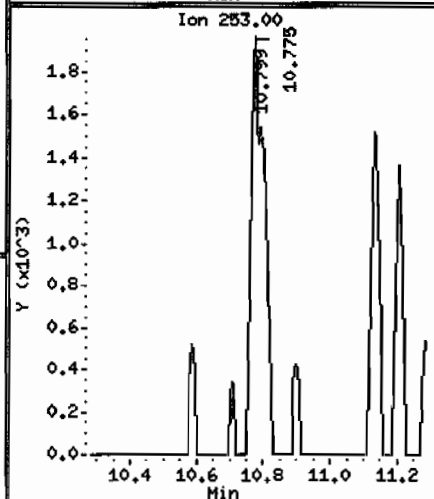
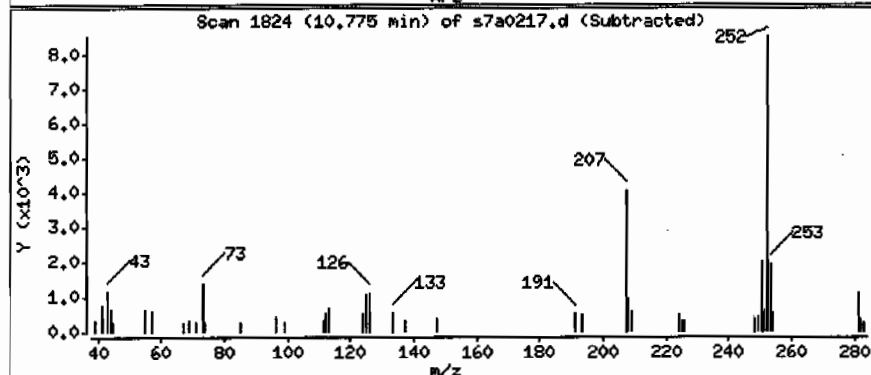
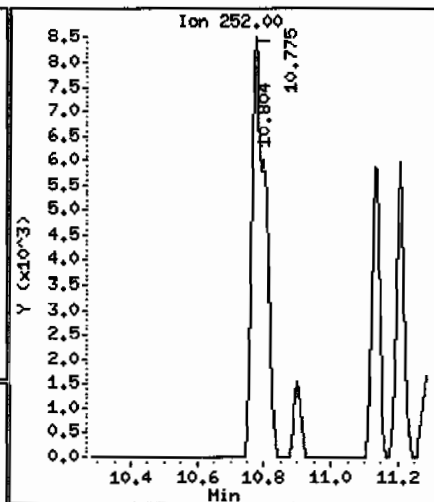
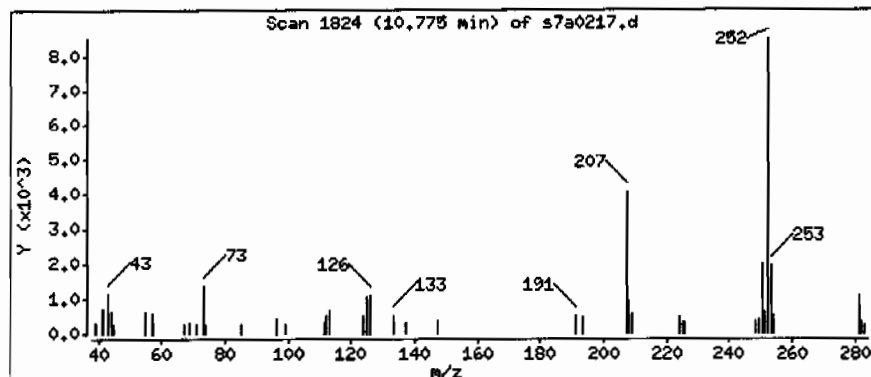
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 26.0 ug/Kg



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.i

Sample Info: 1243490005193709511SVHF111LANL

Volume Injected (uL): 0.5

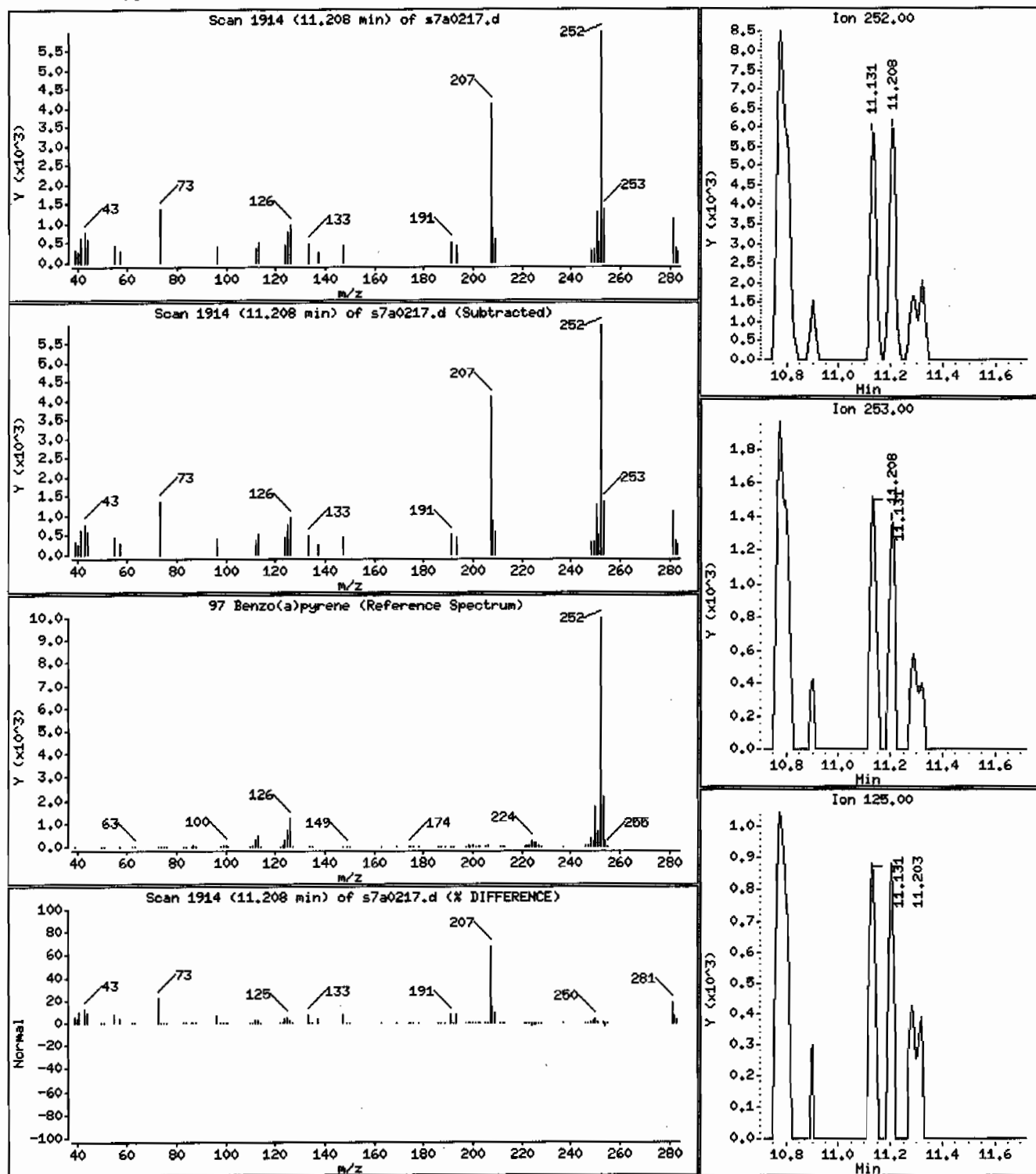
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 18.7 ug/Kg



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.1

Sample Info: 1243490005193709511SVHF11ILANL

Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

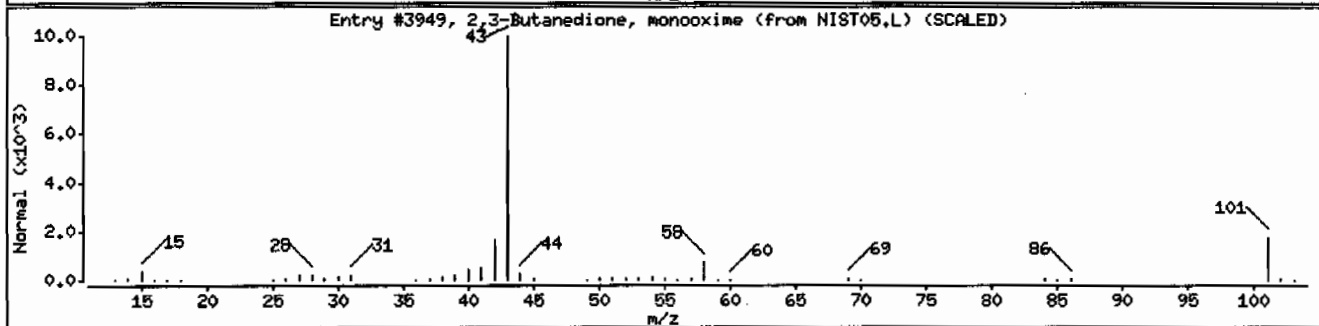
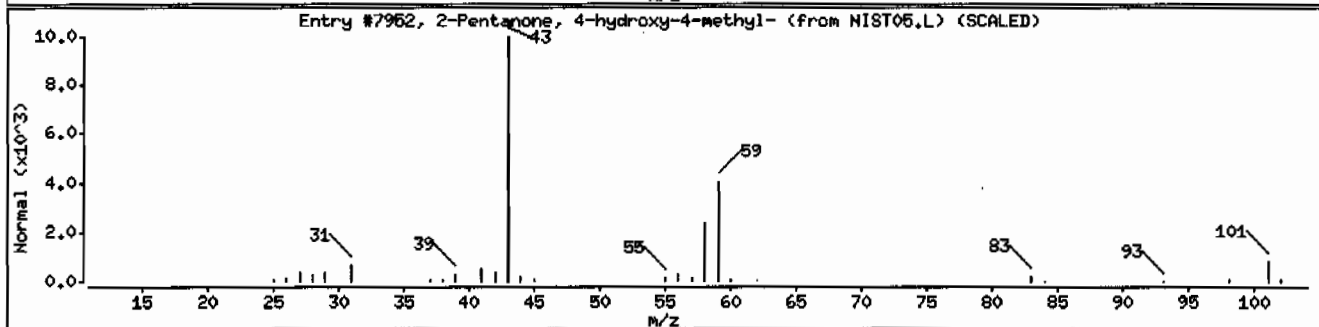
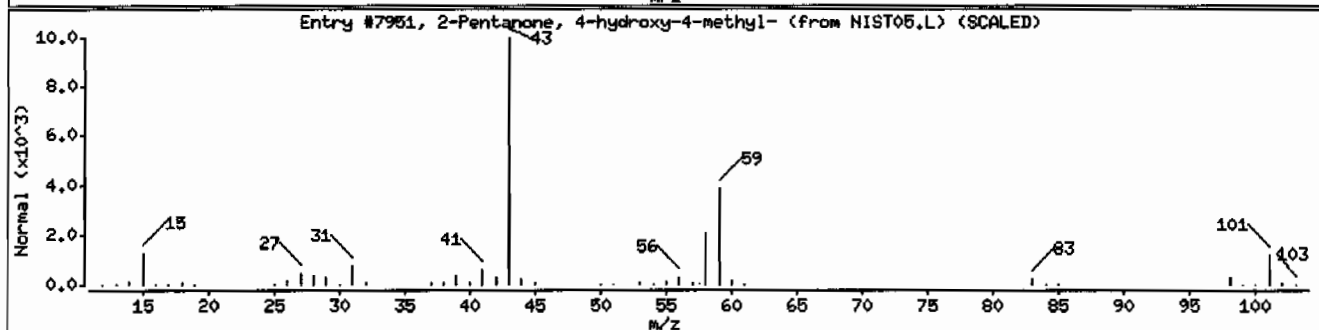
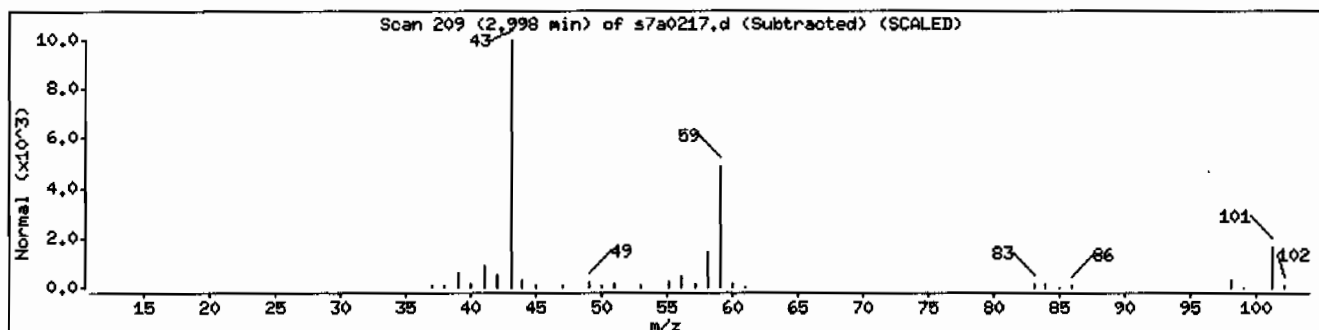
Unknown Aldol Condensate

2-Pentanone, 4-hydroxy-4-methyl-

2-Pentanone, 4-hydroxy-4-methyl-

2,3-Butanedione, monooxime

CAS Number	Library	Entry	Quality	Formula	Weight
123-42-2	NIST05.L	7951	53	C6H12O2	116
123-42-2	NIST05.L	7952	45	C6H12O2	116
57-71-6	NIST05.L	3949	30	C4H7NO2	101



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.i

Sample Info: 1243490005193709511SVMF111LANL

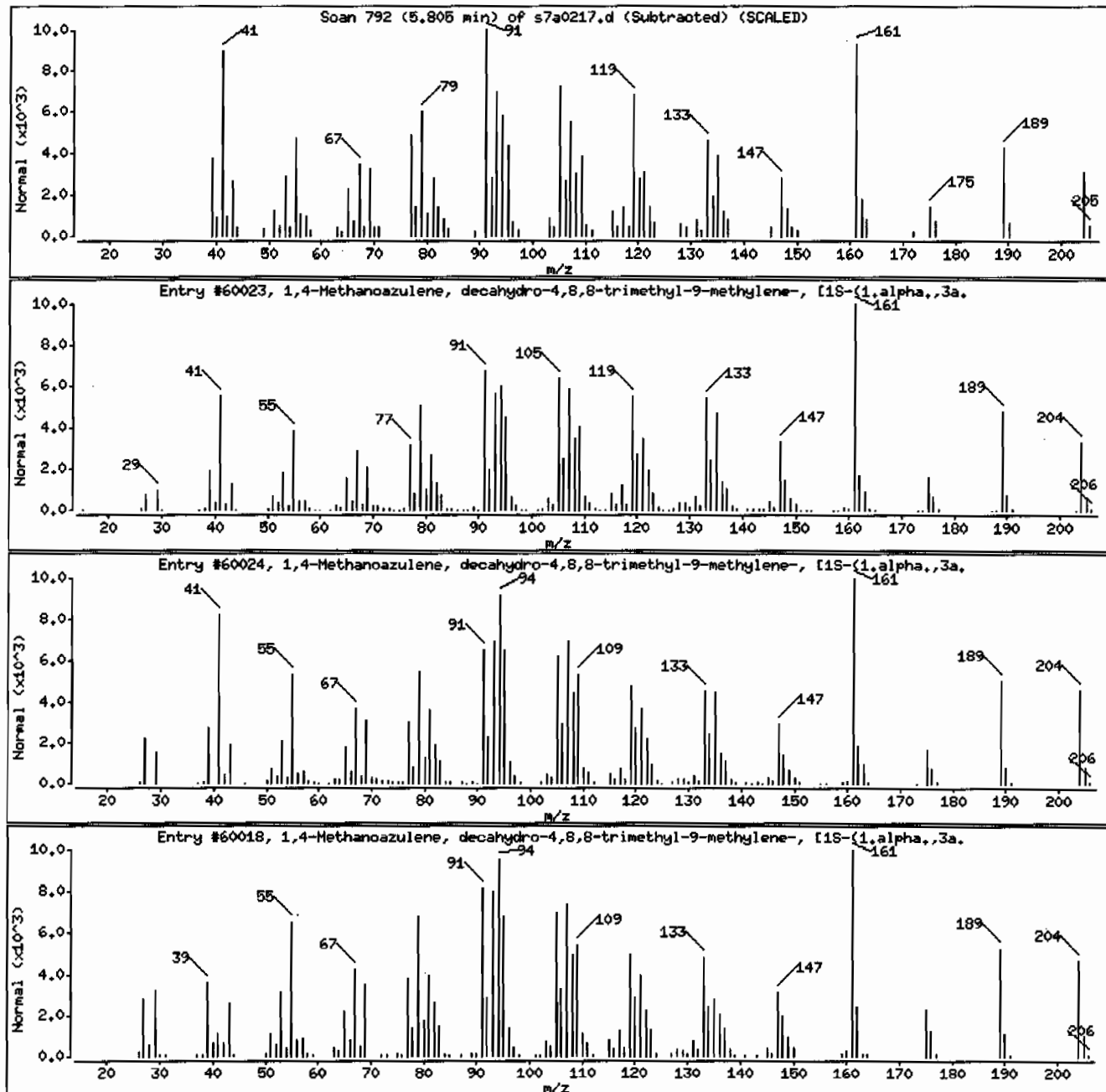
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60023	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	99	C15H24	204



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: HSD7.i

Sample Info: 1243490005193709511SVMF11/LANL

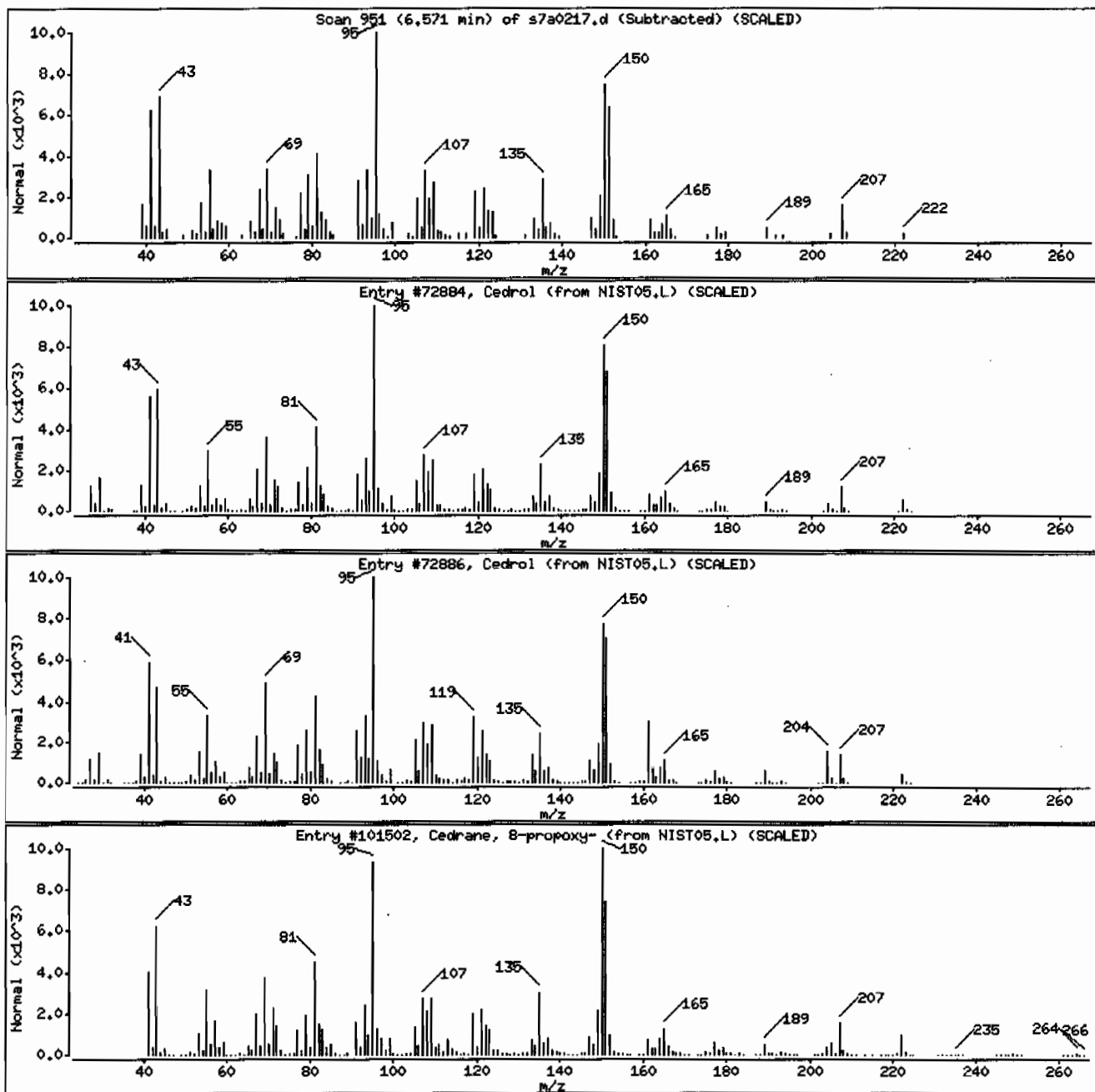
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72884	94	C ₁₅ H ₂₆ O	222
Cedrol	77-53-2	NIST05.L	72886	93	C ₁₅ H ₂₆ O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	91	C ₁₈ H ₃₂ O	264



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: HSD7.i

Sample Info: 12434900051937095111SVHF111LANL

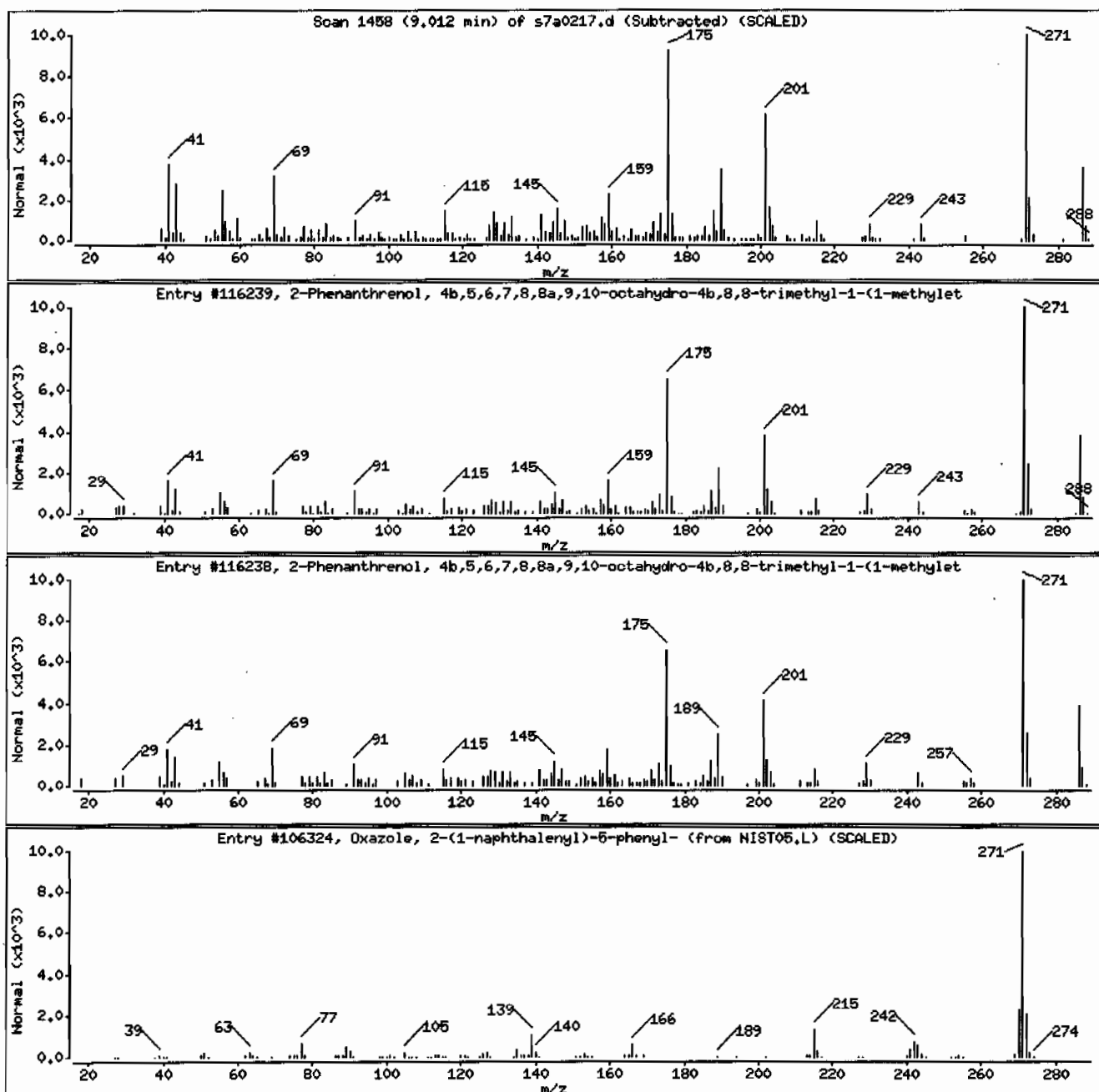
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	97	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	96	C20H30O	286
Oxazole, 2-(1-naphthalenyl)-5-phenyl-	846-63-9	NIST05.L	106324	30	C19H13NO	271



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.i

Sample Info: 1243490005193709511SVHF111LANL

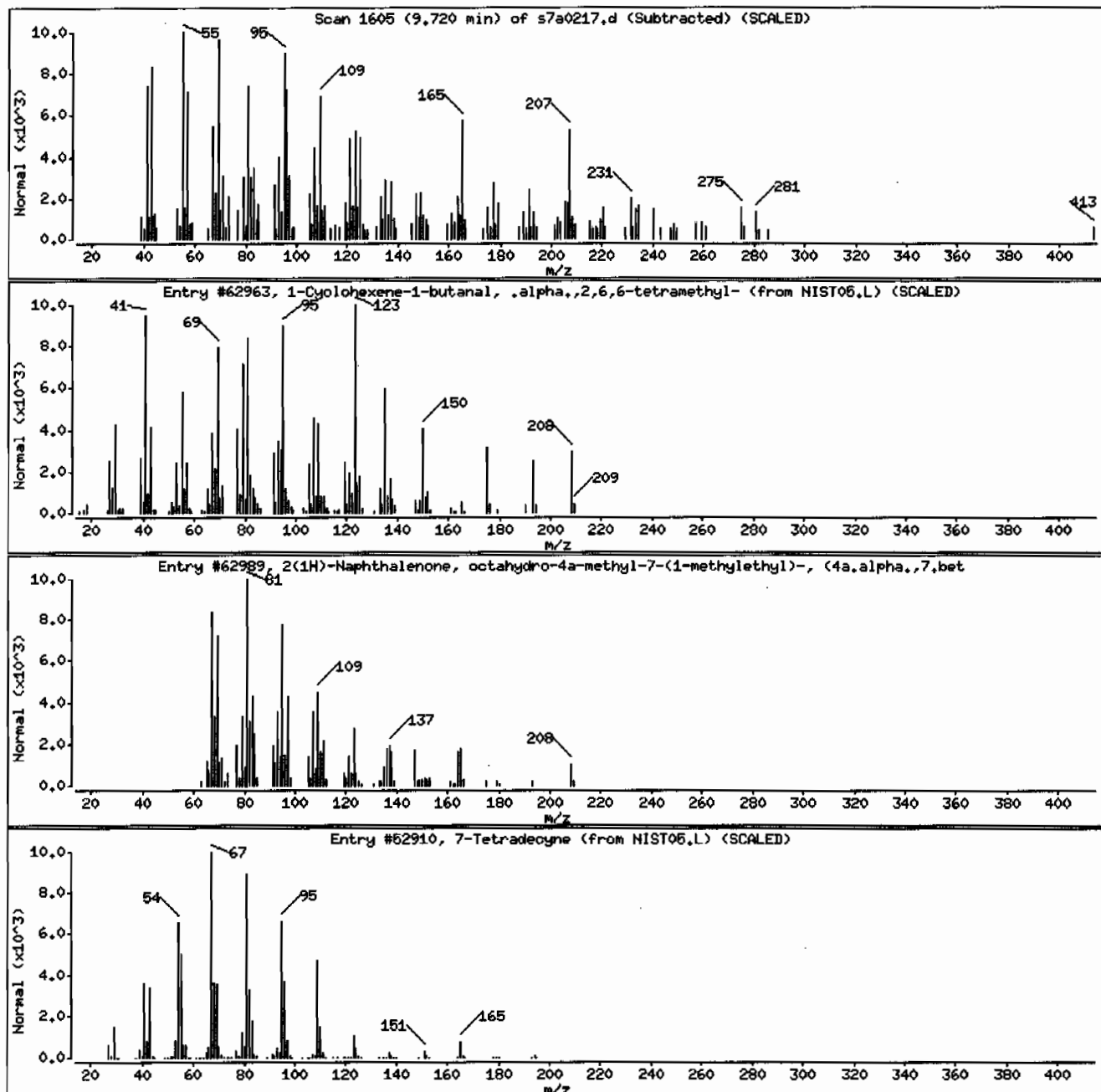
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Cyclohexene-1-butanol, .alpha.,2,6,6-t	21632-06-4	NIST05.L	62963	53	C14H24O	208
2(1H)-Naphthalenone, octahydro-4a-methyl	54594-42-2	NIST05.L	62989	51	C14H24O	208
7-Tetradecyne	35216-11-6	NIST05.L	52910	50	C14H26	194



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.1

Sample Info: I243490005193709511SVHF11ILANL

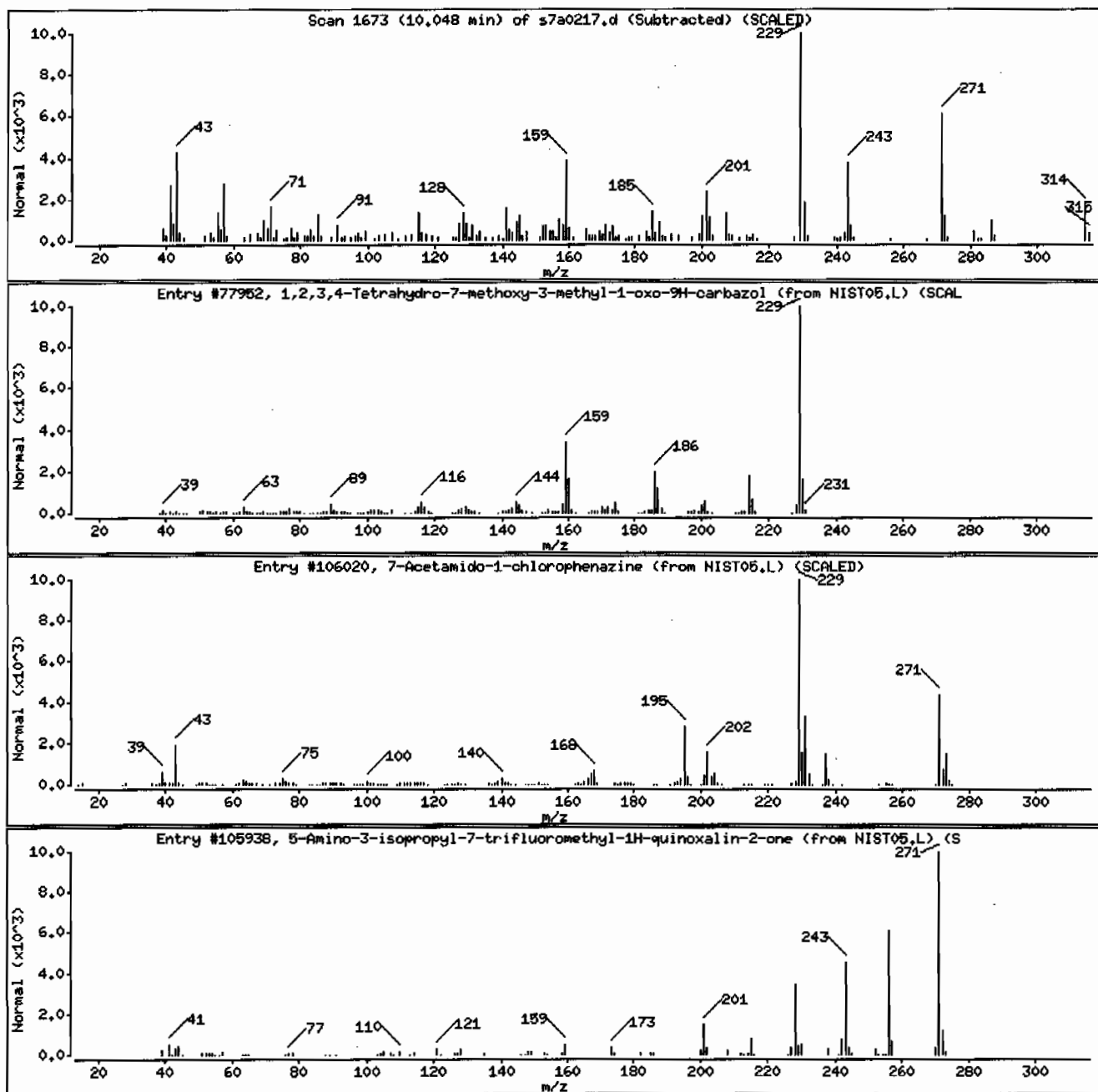
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-	32550-51-9	NIST05.L	77952	55	C14H15NO2	229
7-Acetamido-1-chlorophenazine	23677-12-5	NIST05.L	106020	43	C14H10ClN3O	271
5-Amino-3-isopropyl-7-trifluoromethyl-1H	1000318-49-1	NIST05.L	105938	38	C12H12F3N3O	271



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: MSD7.i

Sample Info: 12434900051937095111SVHF111LANL

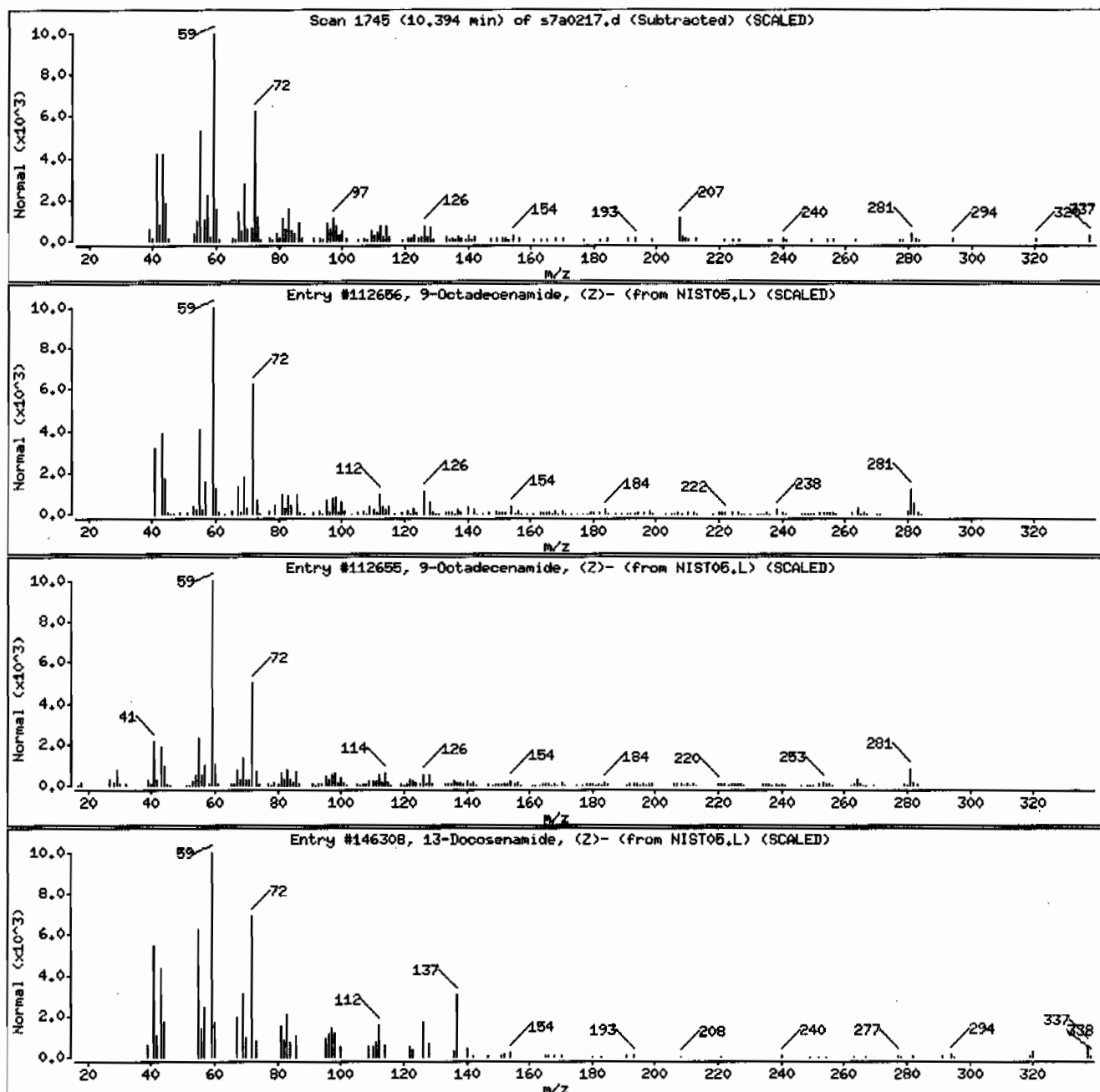
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112655	93	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337



Date : 02-JAN-2010 21:31

Client ID: RE12-10-7292

Instrument: HSD7.i

Sample Info: 1243490005193709511SVHF111LANL

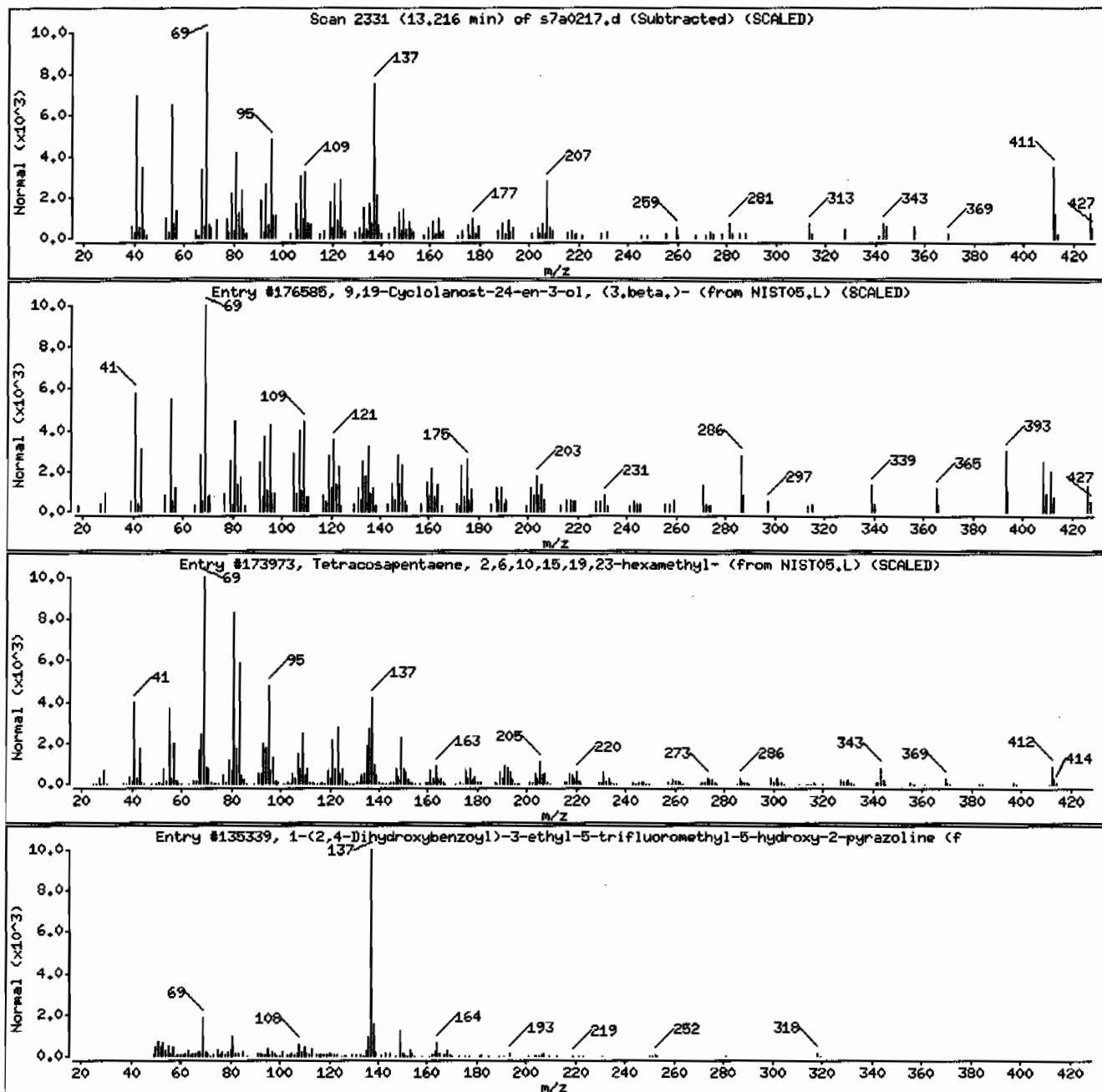
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	469-38-5	NIST05.L	176585	64	C30H50O	426
Tetracosapentaene, 2,6,10,15,19,23-hexam	26266-08-0	NIST05.L	173973	43	C30H52	412
1-(2,4-Dihydroxybenzoyl)-3-ethyl-5-trifl	331835-05-3	NIST05.L	135339	43	C13H13F3N2O4	318



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

SDG Number: 10-1036
Lab Sample ID: 243490006

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.5
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
62-75-9	N-Methyl-N-nitrosomethylamine	U	340	ug/kg	68.0	340
108-95-2	Phenol	U	340	ug/kg	68.0	340
95-57-8	2-Chlorophenol	U	340	ug/kg	68.0	340
106-46-7	1,4-Dichlorobenzene	U	340	ug/kg	68.0	340
621-64-7	N-Nitrosodipropylamine	U	340	ug/kg	68.0	340
59-50-7	4-Chloro-3-methylphenol	U	340	ug/kg	68.0	340
83-32-9	Acenaphthene	U	34.0	ug/kg	11.2	34.0
121-14-2	2,4-Dinitrotoluene	U	340	ug/kg	34.0	340
100-02-7	4-Nitrophenol	U	340	ug/kg	112	340
87-86-5	Pentachlorophenol	U	340	ug/kg	85.0	340
129-00-0	Pyrene	U	34.0	ug/kg	10.2	34.0
110-86-1	Pyridine	U	340	ug/kg	68.0	340
62-53-3	Aniline	U	340	ug/kg	102	340
111-44-4	bis(2-Chloroethyl) ether	U	340	ug/kg	68.0	340
541-73-1	1,3-Dichlorobenzene	U	340	ug/kg	68.0	340
100-51-6	Benzyl alcohol	U	340	ug/kg	102	340
95-50-1	1,2-Dichlorobenzene	U	340	ug/kg	68.0	340
108-60-1	bis(2-Chloroisopropyl)ether	U	340	ug/kg	68.0	340
95-48-7	o-Cresol	U	340	ug/kg	68.0	340
65794-96-9	m,p-Cresols	U	340	ug/kg	102	340
67-72-1	Hexachloroethane	U	340	ug/kg	68.0	340
98-95-3	Nitrobenzene	U	340	ug/kg	68.0	340
78-59-1	Isophorone	U	340	ug/kg	68.0	340
88-75-5	2-Nitrophenol	U	340	ug/kg	68.0	340
105-67-9	2,4-Dimethylphenol	U	340	ug/kg	119	340
111-91-1	bis(2-Chloroethoxy)methane	U	340	ug/kg	68.0	340
120-83-2	2,4-Dichlorophenol	U	340	ug/kg	68.0	340
65-85-0	Benzoic acid	U	680	ug/kg	170	680
91-20-3	Naphthalene	U	34.0	ug/kg	10.2	34.0
106-47-8	4-Chloroaniline	U	340	ug/kg	68.0	340
87-68-3	Hexachlorobutadiene	U	340	ug/kg	68.0	340
91-57-6	2-Methylnaphthalene	U	34.0	ug/kg	6.80	34.0
77-47-4	Hexachlorocyclopentadiene	U	340	ug/kg	68.0	340
88-06-2	2,4,6-Trichlorophenol	U	340	ug/kg	68.0	340
95-95-4	2,4,5-Trichlorophenol	U	340	ug/kg	68.0	340
91-58-7	2-Chloronaphthalene	U	34.0	ug/kg	11.2	34.0
88-74-4	2-Nitroaniline	U	340	ug/kg	68.0	340
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	340	ug/kg	68.0	340

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

SDG Number: 10-1036
Lab Sample ID: 243490006

Client ID: RE12-10-7293
Batch ID: 937095
Run Date: 01/02/2010 21:53
Prep Date: 12/28/2009 21:32
Data File: s7a0218.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 2.5
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
131-11-3	<i>m</i> -Nitroaniline					
	Dimethylphthalate	U	340	ug/kg	68.0	340
606-20-2	2,6-Dinitrotoluene	U	340	ug/kg	34.0	340
208-96-8	Acenaphthylene	U	34.0	ug/kg	10.2	34.0
51-28-5	2,4-Dinitrophenol	U	680	ug/kg	129	680
132-64-9	Dibenzofuran	U	340	ug/kg	68.0	340
84-66-2	Diethylphthalate	U	340	ug/kg	68.0	340
86-73-7	Fluorene	U	34.0	ug/kg	10.2	34.0
7005-72-3	4-Chlorophenylphenylether	U	340	ug/kg	68.0	340
534-52-1	2-Methyl-4,6-dinitrophenol	U	340	ug/kg	68.0	340
100-01-6	4-Nitroaniline	U	340	ug/kg	102	340
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	340	ug/kg	68.0	340
122-66-7	Azobenzene	U	340	ug/kg	68.0	340
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	340	ug/kg	68.0	340
118-74-1	Hexachlorobenzene	U	340	ug/kg	68.0	340
85-01-8	Phenanthrene	U	34.0	ug/kg	10.2	34.0
120-12-7	Anthracene	U	34.0	ug/kg	6.80	34.0
84-74-2	Di-n-butylphthalate	U	340	ug/kg	68.0	340
206-44-0	Fluoranthene	U	34.0	ug/kg	10.2	34.0
85-68-7	Butylbenzylphthalate	U	340	ug/kg	68.0	340
56-55-3	Benzo(a)anthracene	U	34.0	ug/kg	10.2	34.0
91-94-1	3,3'-Dichlorobenzidine	U	340	ug/kg	102	340
218-01-9	Chrysene	U	34.0	ug/kg	10.2	34.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	ug/kg	68.0	340
117-84-0	Di-n-octylphthalate	U	340	ug/kg	68.0	340
205-99-2	Benzo(b)fluoranthene	U	34.0	ug/kg	10.2	34.0
207-08-9	Benzo(k)fluoranthene	U	34.0	ug/kg	10.2	34.0
50-32-8	Benzo(a)pyrene	U	34.0	ug/kg	10.2	34.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.0	ug/kg	10.2	34.0
53-70-3	Dibenzo(a,h)anthracene	U	34.0	ug/kg	10.2	34.0
191-24-2	Benzo(ghi)perylene	U	34.0	ug/kg	10.2	34.0
120-82-1	1,2,4-Trichlorobenzene	U	340	ug/kg	68.0	340

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	184	ug/kg		J
	Unknown	2.14	162	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

Page 3 of 3

SDG Number: 10-1036
Lab Sample ID: 243490006Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.17 g
Column: J&W DB-5MSMatrix: R
%Moisture: 2.5
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	
Tentatively Identified Compound Summary				Estimated			
CAS No.	Tentatively Identified Compound (TIC)		RT		Units	Fit	Qual
	Unknown Aldol Condensate		3	245	ug/kg		J
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa		9.02	191	ug/kg	98	NJ
301-02-0	9-Octadecenamide, (Z)-		10.39	154	ug/kg	95	NJ

GEL Laboratories LLC

GEL Laboratories, LLC

Data file : /chem/MSD7.i/s010210.b/s7a0218.d
Lab Smp Id: 243490006 Client Smp ID: RE12-10-7293
Inj Date : 02-JAN-2010 21:53
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490006|937095|1|SVMF|1|LANL
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	2.52260	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	273463	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1024911	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	601301	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.236	(1.000)	1139765	40.0000	
* 91 Chrysene-d12	240	9.634	9.638	(1.000)	1117252	40.0000	
* 98 Perylene-d12	264	11.290	11.295	(1.000)	900923	40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.797)	439868	60.0784	2040
\$ 5 Phenol-d5	99	3.672	3.672	(0.926)	558736	61.5516	2090
\$ 20 Nitrobenzene-d5	82	4.318	4.322	(0.895)	250514	31.8407	1080
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	547618	33.6605	1140
\$ 60 2,4,6-Tribromophenol	329	6.663	6.667	(1.098)	160419	79.1245	2690
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.894)	757972	40.4580	1380

ION RATIO REPORT

SV REPORT

Data file: s7a0218.d

Report Date: 01/04/2010 08:15

Lab. ID: 243490006

SampleType: SAMPLE

Injection Date: 02-JAN-2010 21:53

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490006|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
=====						
4 Aniline		CAS#: 62-53-3				
66	30212	3.67	3.74	80-120	100	(T)
93	299	3.55	3.74	221-281	1	(QT)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	37375	4.32	4.19	80-120	100	(T)
42	24463	4.32	4.19	43-103	65	(T)

43 Dimethylphthalate		CAS#: 131-11-3				
163	106926	6.07	5.83	80-120	100	(T)
164	601301	6.07	5.83	0- 40	562	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	78154	6.07	5.88	80-120	100	(T)
63	794	6.07	5.88	35- 95	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	78154	6.07	6.18	80-120	100	(T)
89	978	6.07	6.18	43-103	1	(QT)
63	794	6.07	6.18	20- 80	1	(QT)

53 Fluorene		CAS#: 86-73-7				
166	7856	6.66	6.48	80-120	100	(T)
165	8388	6.66	6.48	60-120	107	(T)
167	2743	6.66	6.48	0- 44	35	(T)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
55 2-Methyl-4,6-dinitrophenol				CAS#: 534-52-1		
198	509	6.66	6.49	80-120	100	(T)
105	959	6.66	6.49	13- 73	189	(QT)
51	1090	6.66	6.49	48-108	214	(QT)

Q qualifier indicates ion failed ratio requirement

Data File: /chem/MSD7.i/s010210.b/s7a0218.d
Report Date: 04-Jan-2010 08:40

Page 1

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Data file : /chem/MSD7.i/s010210.b/s7a0218.d
Lab Smp Id: 243490006 Client Smp ID: RE12-10-7293
Inj Date : 02-JAN-2010 21:53
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |243490006|937095|1|SVMF|1|LANL
Misc Info : |MSD8270 S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.17000	weight of sample
M	2.52260	% moisture

Cpnd Variable

Local Compound Variable

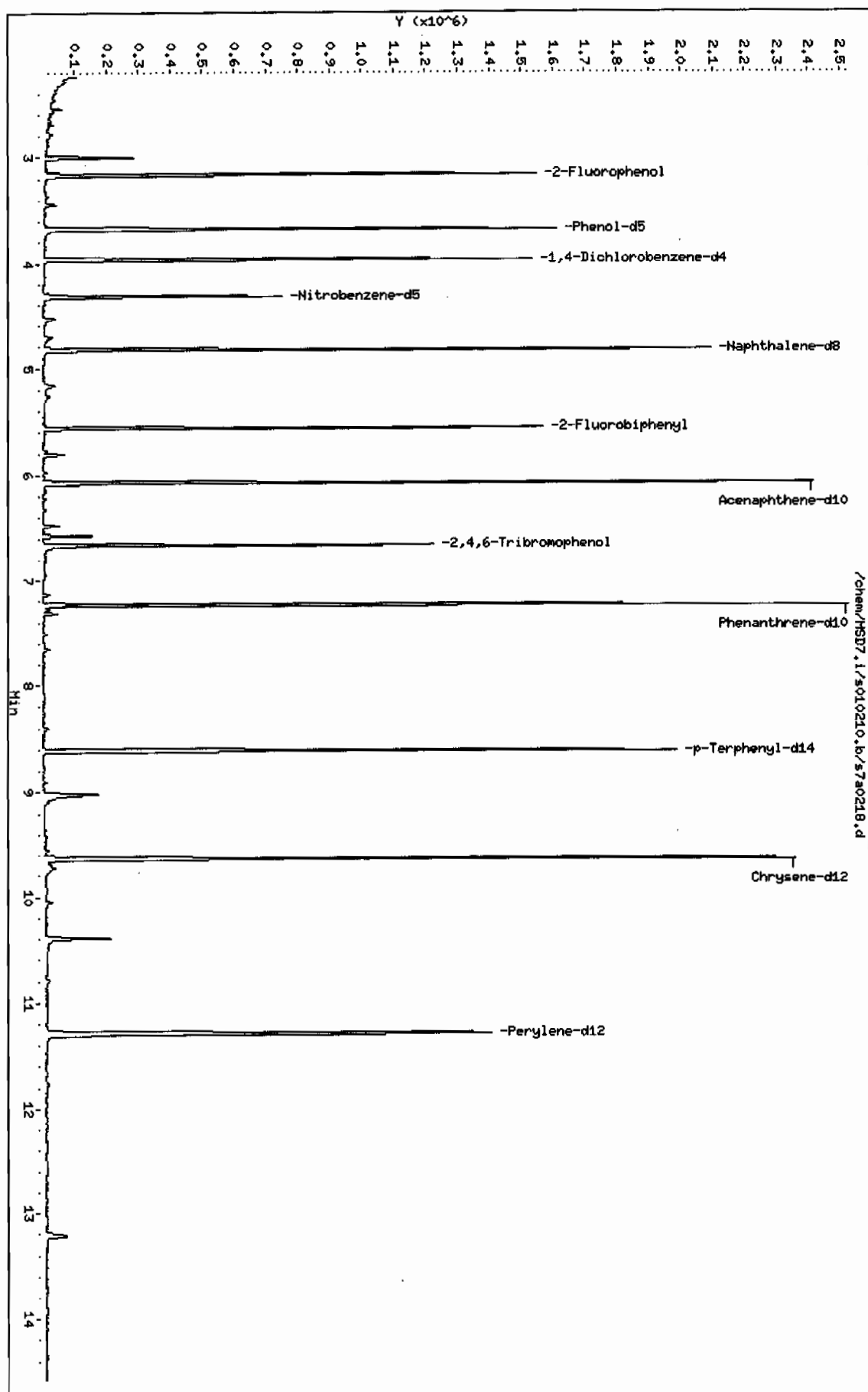
ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.966	1646915	40.000
* 91 Chrysene-d12	9.634	2846506	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
2.107	222326	5.39980818	184	0		0	10

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
<hr/>							
Unknown					CAS #:		
2.136	196287	4.76738811	162	0		0	10
<hr/>							
Unknown Aldol Condensate					CAS #:		
3.003	297009	7.21369429	245	0		0	10
<hr/>							
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
9.017	400224	5.62406970	191	98	NIST05.L	116239	91
<hr/>							
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.394	322384	4.53024702	154	95	NIST05.L	112656	91

Data File: /chem/HSD7.i/s010210.b/s7a0218.d
Date: 02-JAN-2010 21:53
Client ID: REL2-10-7293
Sample Info: 1243490006193709511SV#F11LALN
Volume Injected (uL): 0.5
Column phase: J&W DB-SHS

Instrument: HSD7.1
Operator: JMB3
Column diameter: 0.20



Date : 02-JAN-2010 21:53

Client ID: RE12-10-7293

Instrument: MSD7.i

Sample Info: 1243490006193709511SVHF111LANL

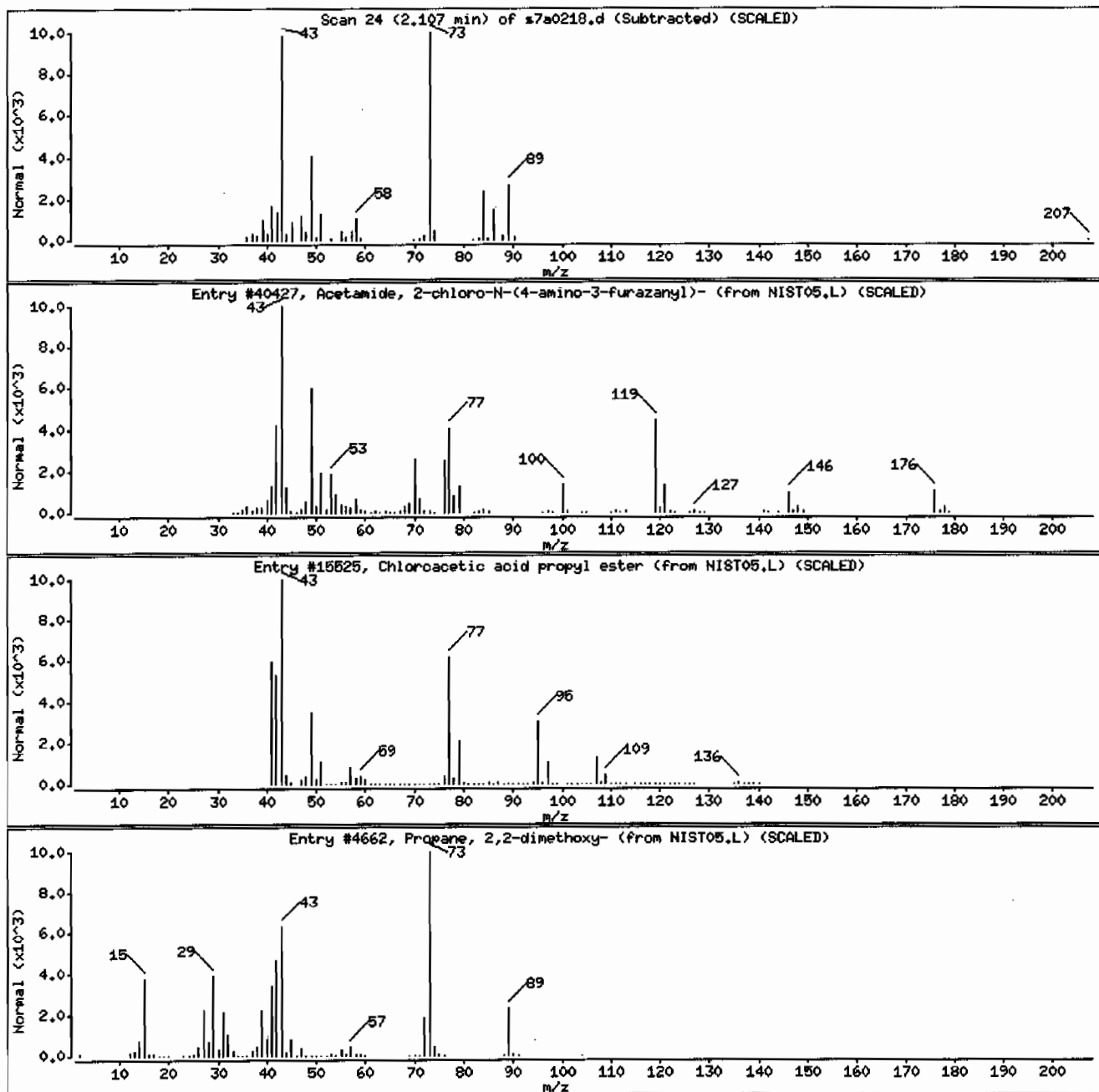
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, 2-chloro-N-(4-amino-3-furazan	101140-12-9	NIST05.L	40427	9	C4H5ClN4O2	176
Chloroacetic acid propyl ester	5396-24-7	NIST05.L	15525	9	C5H9ClO2	136
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4662	7	C5H12O2	104



Date : 02-JAN-2010 21:53

Client ID: RE12-10-7293

Instrument: HSD7.i

Sample Info: 1243490006193709511ISVHF11ILANL

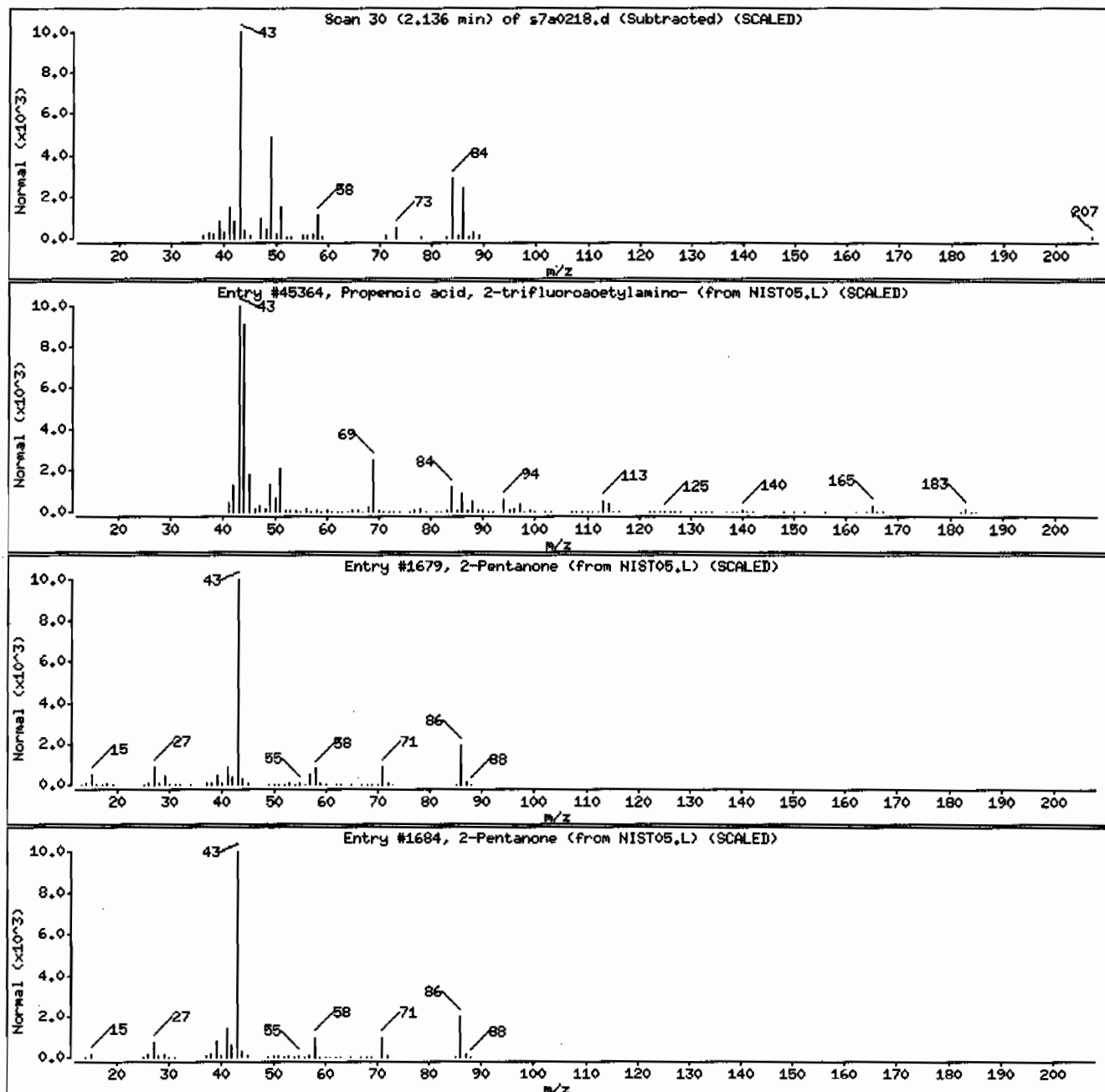
Volume Injected (ul): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propenoic acid, 2-trifluoroacetyl-amino-	675-00-3	NIST05.L	45364	39	C5H4F3NO3	183
2-Pentanone	107-87-9	NIST05.L	1679	10	C5H10O	86
2-Pentanone	107-87-9	NIST05.L	1684	10	C5H10O	86



Date : 02-JAN-2010 21:53

Client ID: RE12-10-7293

Instrument: MSD7.i

Sample Info: 1243490006193709511SVHF111LANL

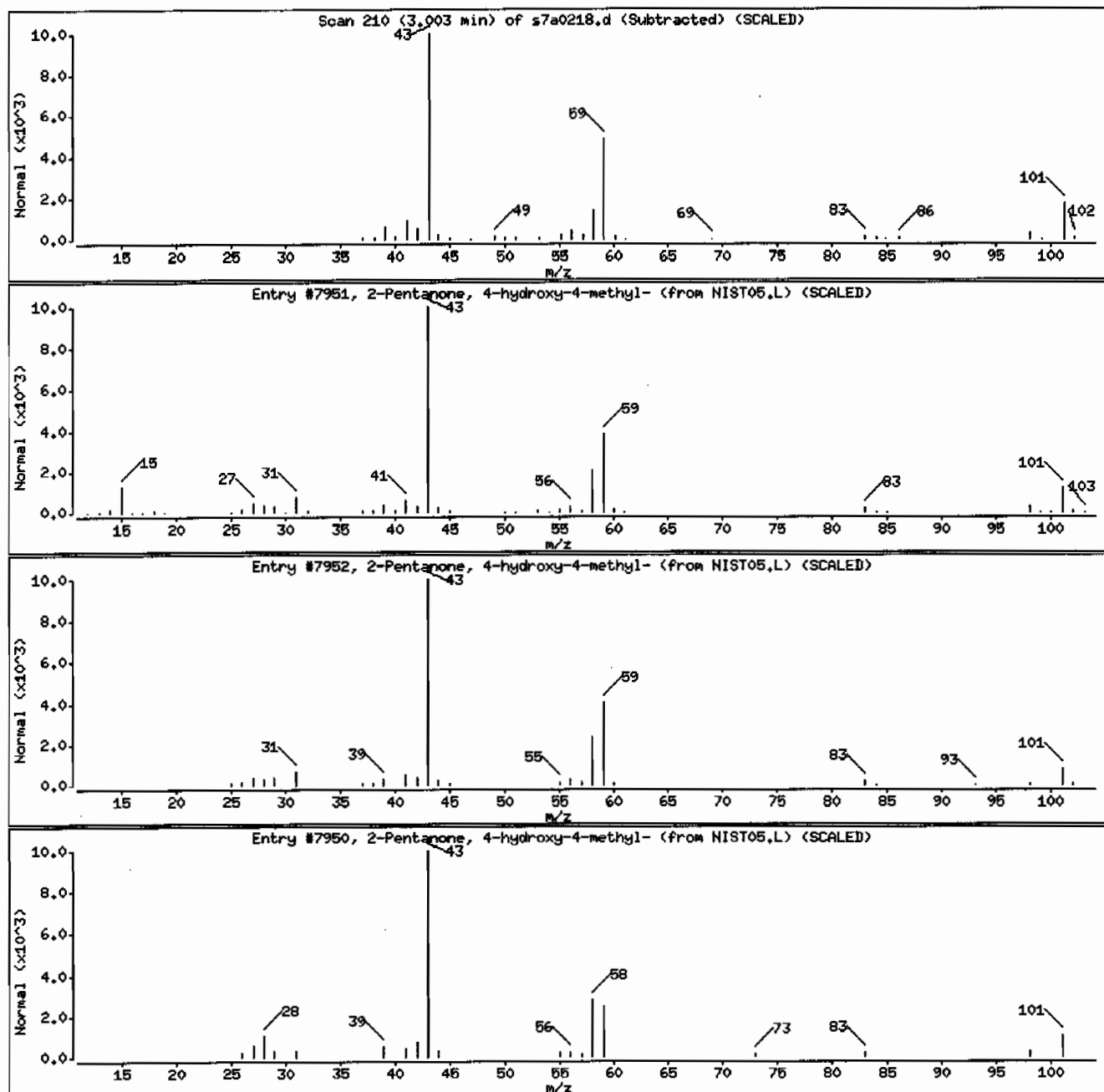
Volume Injected (uL): 0.5

Operator: JHB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	53	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7950	38	C6H12O2	116



Date: 02-JAN-2010 21:53

Client ID: RE12-10-7293

Instrument: MSD7.i

Sample Info: 12434900061937095111SVHF111LANL

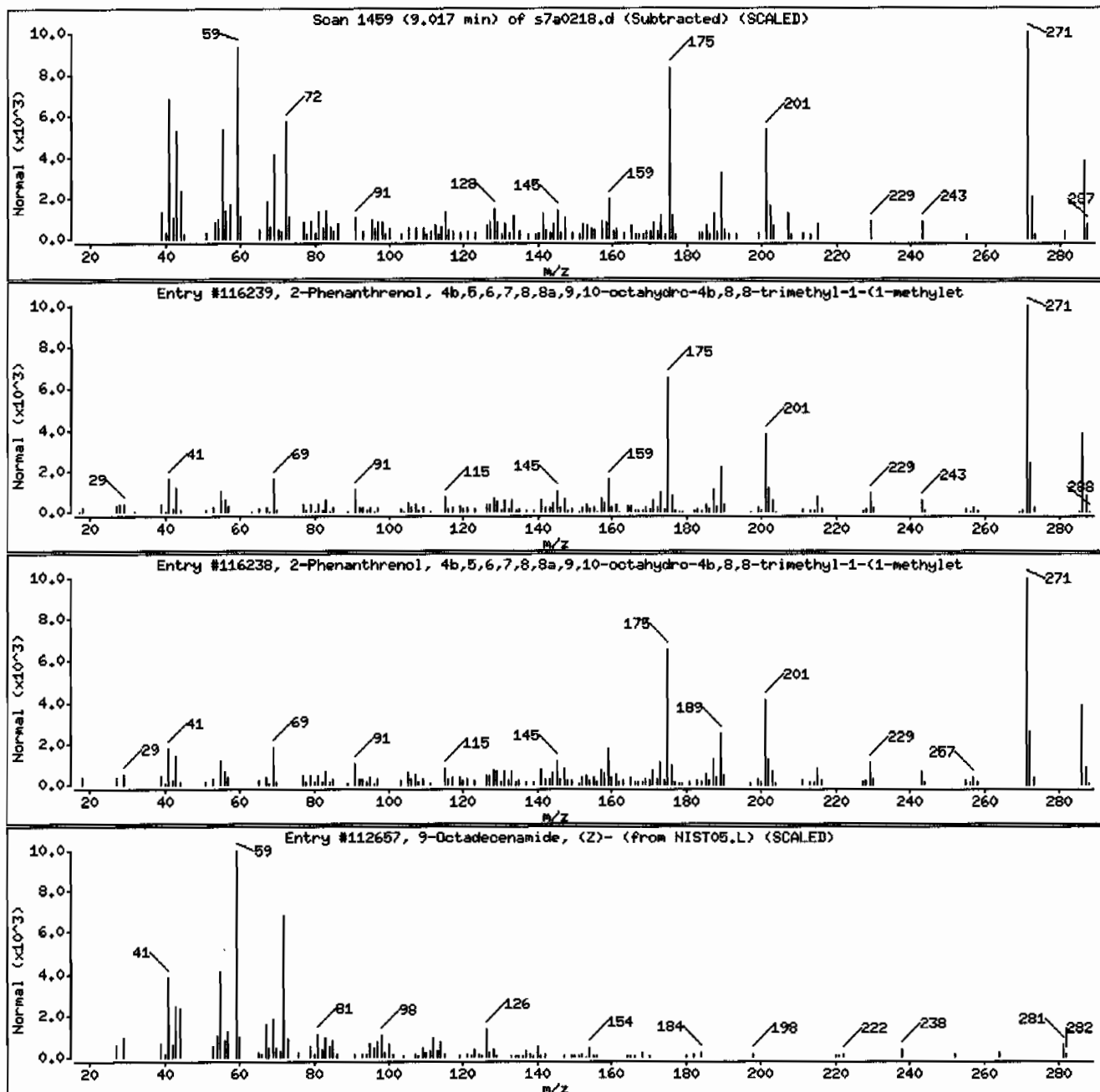
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	98	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	95	C20H30O	286
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	25	C18H35NO	281



Date: 02-JAN-2010 21:53

Client ID: RE12-10-7293

Instrument: MSD7.i

Sample Info: 1243490006193709511SVMF11ILANL

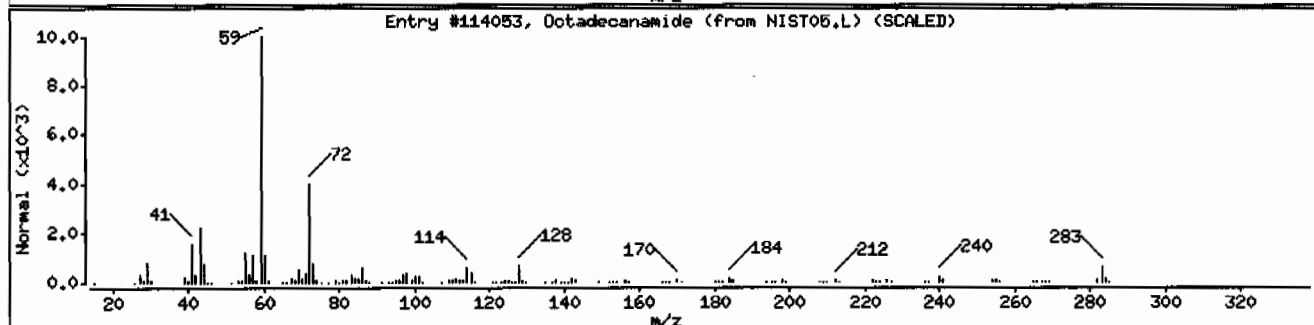
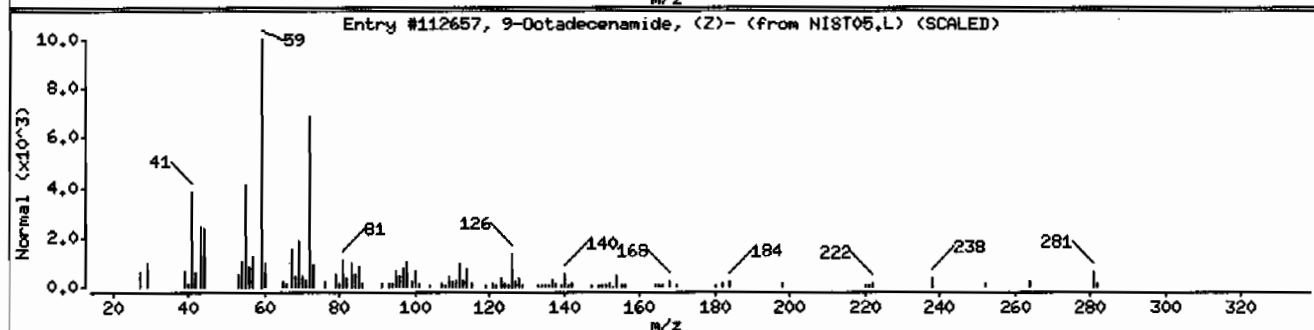
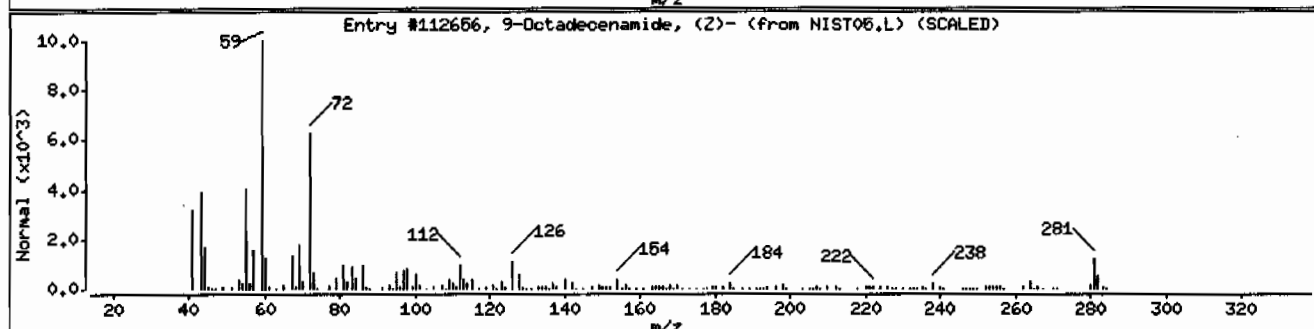
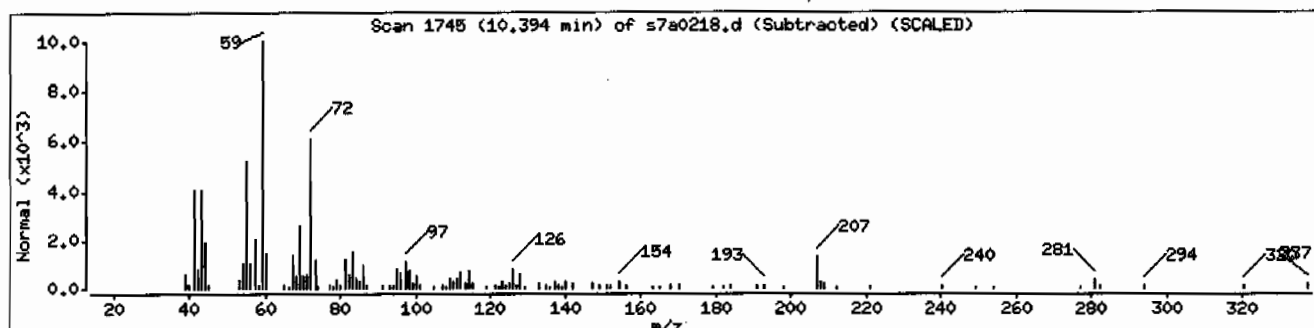
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-SMS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112657	89	C18H35NO	281
Octadecanamide	124-26-5	NIST05.L	114053	64	C18H37NO	283



Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490007

Client ID: RE12-10-7296
Batch ID: 937095
Run Date: 01/04/2010 15:01
Prep Date: 12/28/2009 21:32
Data File: s7a0412.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
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	362	ug/kg	72.4	362
108-95-2	Phenol	U	362	ug/kg	72.4	362
95-57-8	2-Chlorophenol	U	362	ug/kg	72.4	362
106-46-7	1,4-Dichlorobenzene	U	362	ug/kg	72.4	362
621-64-7	N-Nitrosodipropylamine	U	362	ug/kg	72.4	362
59-50-7	4-Chloro-3-methylphenol	U	362	ug/kg	72.4	362
83-32-9	Acenaphthene	U	36.2	ug/kg	11.9	36.2
121-14-2	2,4-Dinitrotoluene	U	362	ug/kg	36.2	362
100-02-7	4-Nitrophenol	U	362	ug/kg	119	362
87-86-5	Pentachlorophenol	U	362	ug/kg	90.5	362
129-00-0	Pyrene	U	36.2	ug/kg	10.9	36.2
110-86-1	Pyridine	U	362	ug/kg	72.4	362
62-53-3	Aniline	U	362	ug/kg	109	362
111-44-4	bis(2-Chloroethyl) ether	U	362	ug/kg	72.4	362
541-73-1	1,3-Dichlorobenzene	U	362	ug/kg	72.4	362
100-51-6	Benzyl alcohol	U	362	ug/kg	109	362
95-50-1	1,2-Dichlorobenzene	U	362	ug/kg	72.4	362
108-60-1	bis(2-Chloroisopropyl)ether	U	362	ug/kg	72.4	362
95-48-7	o-Cresol	U	362	ug/kg	72.4	362
65794-96-9	m,p-Cresols	U	362	ug/kg	109	362
67-72-1	Hexachloroethane	U	362	ug/kg	72.4	362
98-95-3	Nitrobenzene	U	362	ug/kg	72.4	362
78-59-1	Isophorone	U	362	ug/kg	72.4	362
88-75-5	2-Nitrophenol	U	362	ug/kg	72.4	362
105-67-9	2,4-Dimethylphenol	U	362	ug/kg	127	362
111-91-1	bis(2-Chloroethoxy)methane	U	362	ug/kg	72.4	362
120-83-2	2,4-Dichlorophenol	U	362	ug/kg	72.4	362
65-85-0	Benzoic acid	U	724	ug/kg	181	724
91-20-3	Naphthalene	U	36.2	ug/kg	10.9	36.2
106-47-8	4-Chloroaniline	U	362	ug/kg	72.4	362
87-68-3	Hexachlorobutadiene	U	362	ug/kg	72.4	362
91-57-6	2-Methylnaphthalene	U	36.2	ug/kg	7.24	36.2
77-47-4	Hexachlorocyclopentadiene	U	362	ug/kg	72.4	362
88-06-2	2,4,6-Trichlorophenol	U	362	ug/kg	72.4	362
95-95-4	2,4,5-Trichlorophenol	U	362	ug/kg	72.4	362
91-58-7	2-Chloronaphthalene	U	36.2	ug/kg	11.9	36.2
88-74-4	2-Nitroaniline	U	362	ug/kg	72.4	362
99-09-2	<i>o</i> -Nitroaniline	U	362	ug/kg	72.4	362
	3-Nitroaniline					

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

SDG Number: 10-1036
Lab Sample ID: 243490007

Client ID: RE12-10-7296
Batch ID: 937095
Run Date: 01/04/2010 15:01
Prep Date: 12/28/2009 21:32
Data File: s7a0412.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
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	362	ug/kg	72.4	362
606-20-2	2,6-Dinitrotoluene	U	362	ug/kg	36.2	362
208-96-8	Acenaphthylene	U	36.2	ug/kg	10.9	36.2
51-28-5	2,4-Dinitrophenol	U	724	ug/kg	138	724
132-64-9	Dibenzofuran	U	362	ug/kg	72.4	362
84-66-2	Diethylphthalate	U	362	ug/kg	72.4	362
86-73-7	Fluorene	U	36.2	ug/kg	10.9	36.2
7005-72-3	4-Chlorophenylphenylether	U	362	ug/kg	72.4	362
534-52-1	2-Methyl-4,6-dinitrophenol	U	362	ug/kg	72.4	362
100-01-6	4-Nitroaniline	U	362	ug/kg	109	362
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	362	ug/kg	72.4	362
122-66-7	Azobenzene	U	362	ug/kg	72.4	362
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether	U	362	ug/kg	72.4	362
118-74-1	Hexachlorobenzene	U	362	ug/kg	72.4	362
85-01-8	Phenanthrene	U	36.2	ug/kg	10.9	36.2
120-12-7	Anthracene	U	36.2	ug/kg	7.24	36.2
84-74-2	Di-n-butylphthalate	U	362	ug/kg	72.4	362
206-44-0	Fluoranthene	U	36.2	ug/kg	10.9	36.2
85-68-7	Butylbenzylphthalate	U	362	ug/kg	72.4	362
56-55-3	Benzo(a)anthracene	U	36.2	ug/kg	10.9	36.2
91-94-1	3,3'-Dichlorobenzidine	U	362	ug/kg	109	362
218-01-9	Chrysene	U	36.2	ug/kg	10.9	36.2
117-81-7	bis(2-Ethylhexyl)phthalate	U	362	ug/kg	72.4	362
117-84-0	Di-n-octylphthalate	U	362	ug/kg	72.4	362
205-99-2	Benzo(b)fluoranthene	J	25.8	ug/kg	10.9	36.2
207-08-9	Benzo(k)fluoranthene	U	36.2	ug/kg	10.9	36.2
50-32-8	Benzo(a)pyrene	J	11.5	ug/kg	10.9	36.2
193-39-5	Indeno(1,2,3-cd)pyrene	J	14.2	ug/kg	10.9	36.2
53-70-3	Dibenzo(a,h)anthracene	U	36.2	ug/kg	10.9	36.2
191-24-2	Benzo(ghi)perylene	J	16.4	ug/kg	10.9	36.2
120-82-1	1,2,4-Trichlorobenzene	U	362	ug/kg	72.4	362

Tentatively Identified Compound Summary

CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown	2.11	402	ug/kg		J
	Unknown Aldol Condensate	3	395	ug/kg		J

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

SDG Number: 10-1036
Lab Sample ID: 243490007

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30.03 g
Column: J&W DB-5MS

Matrix: R
%Moisture: 8
Project: LANL01004
SOP Ref: GL-OA-E-009
Dilution: 1
Inj. Vol: .5 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7296
Batch ID: 937095
Run Date: 01/04/2010 15:01
Prep Date: 12/28/2009 21:32
Data File: s7a0412.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	5.81	161	ug/kg	99	NJ
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	9.02	552	ug/kg	98	NJ
	Unknown	9.75	322	ug/kg		J
	Unknown	10.05	162	ug/kg		J
301-02-0	9-Octadecenamide, (Z)-	10.4	228	ug/kg	95	NJ
	Unknown	13.25	1800	ug/kg		J
1000214-20-7	Stigmasterol, 22,23-dihydro-	13.74	288	ug/kg	92	NJ

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Data file : /chem/MSD7.i/s010410.b/s7a0412.d
 Lab Smp Id: 243490007 Client Smp ID: RE12-10-7296
 Inj Date : 04-JAN-2010 15:01
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490007|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	7.99040	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	321122	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1183884	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.075	(1.000)	691773	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.240	(1.000)	1361784	40.0000	
* 91 Chrysene-d12	240	9.638	9.643	(1.000)	1297976	40.0000	
* 98 Perylene-d12	264	11.300	11.309	(1.000)	1026705	40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.798)	600705	69.8692	2530
\$ 5 Phenol-d5	99	3.672	3.667	(0.927)	738193	69.2518	2510
\$ 20 Nitrobenzene-d5	82	4.317	4.317	(0.895)	345606	38.0285	1380
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	748967	40.0161	1450
\$ 60 2,4,6-Tribromophenol	329	6.662	6.667	(1.098)	242005	103.755	3760
\$ 81 p-Terphenyl-d14	244	8.613	8.613	(0.894)	1000474	45.9665	1660

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
95 Benzo(b)fluoranthene	252	10.784	10.794	(0.954)	18190	0.71366	25.8 (a)
97 Benzo(a)pyrene	252	11.218	11.232	(0.993)	7193	0.31724	11.5 (a)
99 Indeno(1,2,3-cd)pyrene	276	13.033	13.062	(1.153)	8867	0.39235	14.2 (a)
101 Benzo(ghi)perylene	276	13.577	13.596	(1.202)	8752	0.45276	16.4 (a)

QC Flag Legend

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

ION RATIO REPORT

SV REPORT

Data file: s7a0412.d

Report Date: 01/04/2010 15:53

Lab. ID: 243490007

SampleType: SAMPLE

Injection Date: 04-JAN-2010 15:01

Operator: JMB3

Instrument: MSD7.i

Sample Info: |243490007|937095|1|SVMF|1|LANL

Miscellaneous Info: |MSD8270_S|WBN091223-01|

Comment:

Method used: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

Dilution Factor= 1.0

Integrator: HP RTE

Compound Sublist: 10-1036

Sample Matrix: SOIL

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL

4 Aniline		CAS#: 62-53-3				
66	39612	3.67	3.74	80-120	100	(T)
93	309	3.73	3.74	185-245	1	(Q)

17 N-Nitrosodipropylamine		CAS#: 621-64-7				
70	51568	4.32	4.19	80-120	100	(T)
42	31913	4.32	4.19	41-101	62	(T)

27 Benzoic acid		CAS#: 65-85-0				
105	1151	4.82	4.58	80-120	100	(T)
122	206	4.82	4.58	55-115	18	(QT)
77	4456	4.82	4.58	55-115	387	(QT)

43 Dimethylphthalate		CAS#: 131-11-3				
163	122110	6.07	5.83	80-120	100	(T)
164	691773	6.07	5.83	0- 40	567	(QT)

44 2,6-Dinitrotoluene		CAS#: 606-20-2				
165	89941	6.07	5.89	80-120	100	(T)
63	1104	6.07	5.89	35- 95	1	(QT)

50 2,4-Dinitrotoluene		CAS#: 121-14-2				
165	89941	6.07	6.19	80-120	100	(T)
89	1509	6.07	6.19	39- 99	2	(QT)
63	1104	6.07	6.19	17- 77	1	(QT)

MASS	RESPONSE	RT	EXPECT RT	TARGET RANGE	RATIO	QUAL
<hr/>						
53 Fluorene		CAS#: 86-73-7				
166	12558	6.66	6.48	80-120	100	(T)
165	13186	6.66	6.48	59-119	105	(T)
167	4519	6.66	6.48	0- 44	36	(T)
<hr/>						
55 2-Methyl-4,6-dinitrophenol		CAS#: 534-52-1				
198	716	6.66	6.49	80-120	100	(T)
105	2243	6.66	6.49	11- 71	313	(QT)
51	1960	6.66	6.49	34- 94	274	(QT)
<hr/>						
56 p-Nitroaniline		CAS#: 100-01-6				
138	597	6.57	6.48	80-120	100	(T)
108	6449	6.57	6.48	37- 97	1079	(QT)
92	2099	6.57	6.48	12- 72	351	(QT)
<hr/>						
61 4-Bromophenylphenylether		CAS#: 101-55-3				
248	15326	6.66	6.85	80-120	100	(T)
141	102318	6.66	6.85	42-102	668	(QT)
250	30636	6.66	6.85	68-128	200	(QT)
<hr/>						
92 Chrysene		CAS#: 218-01-9				
228	9327	9.64	9.67	80-120	100	()
229	5115	9.62	9.67	0- 50	55	(Q)
226	1678	9.62	9.67	0- 60	18	()
<hr/>						
95 Benzo(b)fluoranthene		CAS#: 205-99-2				
252	18190	10.78	10.79	80-120	100	()
253	5835	10.78	10.79	0- 52	32	()
125	4307	10.80	10.79	0- 40	24	()
<hr/>						
96 Benzo(k)fluoranthene		CAS#: 207-08-9				
252	18190	10.78	10.83	80-120	100	()
253	5835	10.78	10.83	0- 52	32	()
125	4307	10.80	10.83	0- 41	24	()
<hr/>						
97 Benzo(a)pyrene		CAS#: 50-32-8				
252	7193	11.22	11.23	80-120	100	()
253	2083	11.22	11.23	0- 52	29	()
125	987	11.22	11.23	0- 42	14	()
<hr/>						
99 Indeno(1,2,3-cd)pyrene		CAS#: 193-39-5				
276	8867	13.03	13.06	80-120	100	()
138	2714	13.04	13.06	0- 59	31	()
<hr/>						
101 Benzo(ghi)perylene		CAS#: 191-24-2				
276	8752	13.58	13.60	80-120	100	()
138	2354	13.58	13.60	0- 55	27	()

Q qualifier indicates ion failed ratio requirement

GEL Laboratories LLC

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Data file : /chem/MSD7.i/s010410.b/s7a0412.d
 Lab Smp Id: 243490007 Client Smp ID: RE12-10-7296
 Inj Date : 04-JAN-2010 15:01
 Operator : JMB3 Inst ID: MSD7.i
 Smp Info : |243490007|937095|1|SVMF|1|LANL
 Misc Info : |MSD8270_S|WBN091223-01|
 Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
 Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
 Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
 Cal Date : 30-DEC-2009 23:30 Cal File: s7l3040.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 10-1036.sub
 Target Version: 3.50
 Processing Host: kilroy

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.03000	weight of sample
M	7.99040	% moisture

Cpnd Variable Local Compound Variable

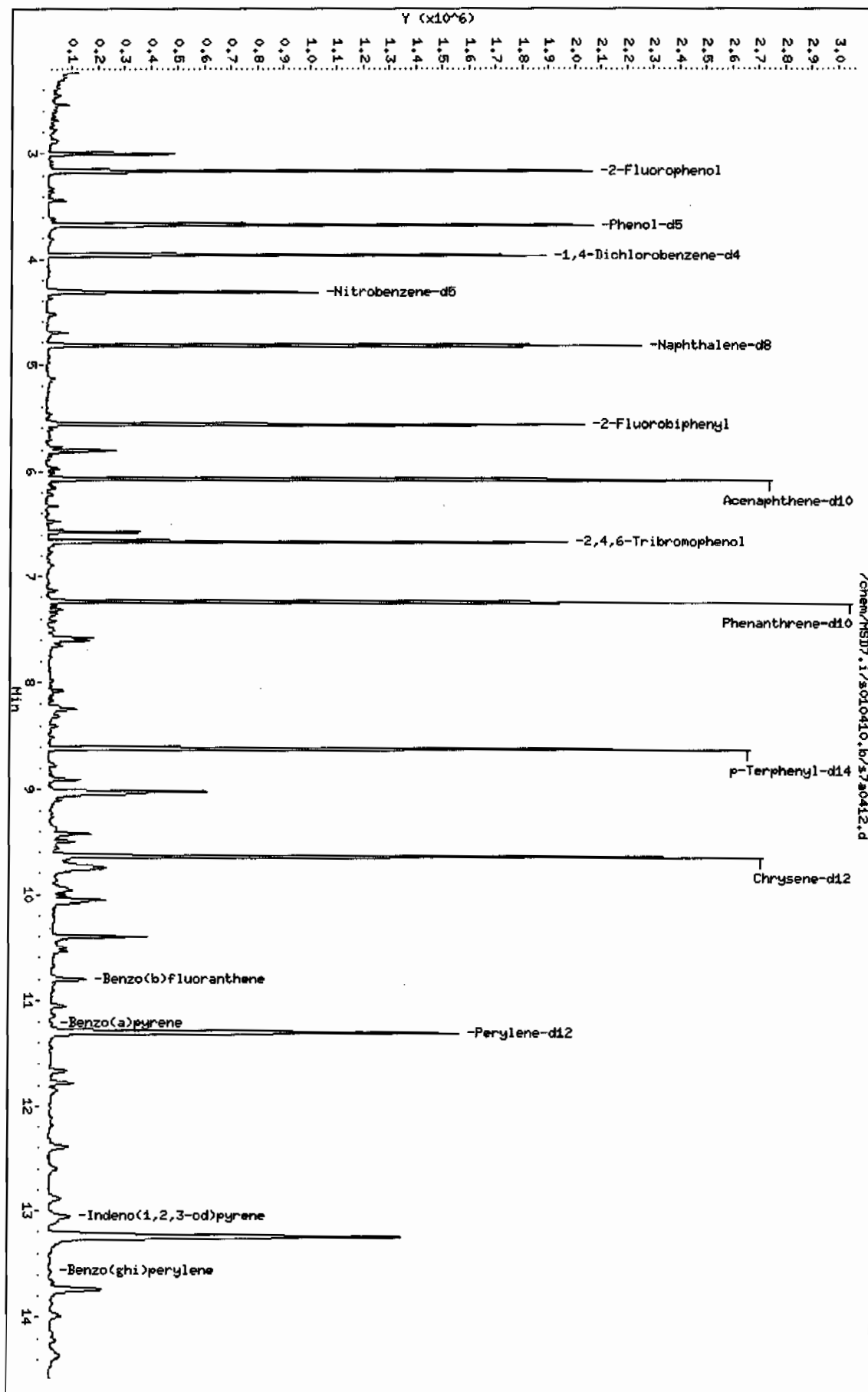
ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.961	1919199	40.000
* 46 Acenaphthene-d10	6.070	2902952	40.000
* 91 Chrysene-d12	9.638	3441250	40.000
* 98 Perylene-d12	11.300	2696591	40.000

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

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
Unknown					CAS #:		
2.107	532753	11.1036451	402	0		0	10
Unknown Aldol Condensate					CAS #:		
2.998	523195	10.9044494	395	0		0	10
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
5.805	322585	4.44491666	161	99	NIST05.L	60023	46
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
9.017	1313290	15.2652635	552	98	NIST05.L	116239	91
Unknown					CAS #:		
9.749	765543	8.89842637	322	0		0	91
Unknown					CAS #:		
10.052	384397	4.46810710	162	0		0	91
9-Octadecenamide, (Z)-					CAS #: 301-02-0		
10.399	541396	6.29301696	228	95	NIST05.L	112656	91
Unknown					CAS #:		
13.245	3357660	49.8059910	1800	0		0	98
Stigmasterol, 22,23-dihydro-					CAS #: 1000214-20-7		
13.736	536158	7.95312603	288	92	NIST05.L	174408	98

Data File: /chem/MSD7.1/s010410.b/s7a0412.d
 Date: 04-JAN-2010 15:01
 Client ID: RE12-10-7296
 Sample Info: 1243490007193709511SVHF111L9NL
 Volume Injected (uL): 0.5
 Column phase: 3M DB-SHS

Instrument: MSD7.1
 Operator: JMB3
 Column diameter: 0.20



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF111LANL

Volume Injected (uL): 0.5

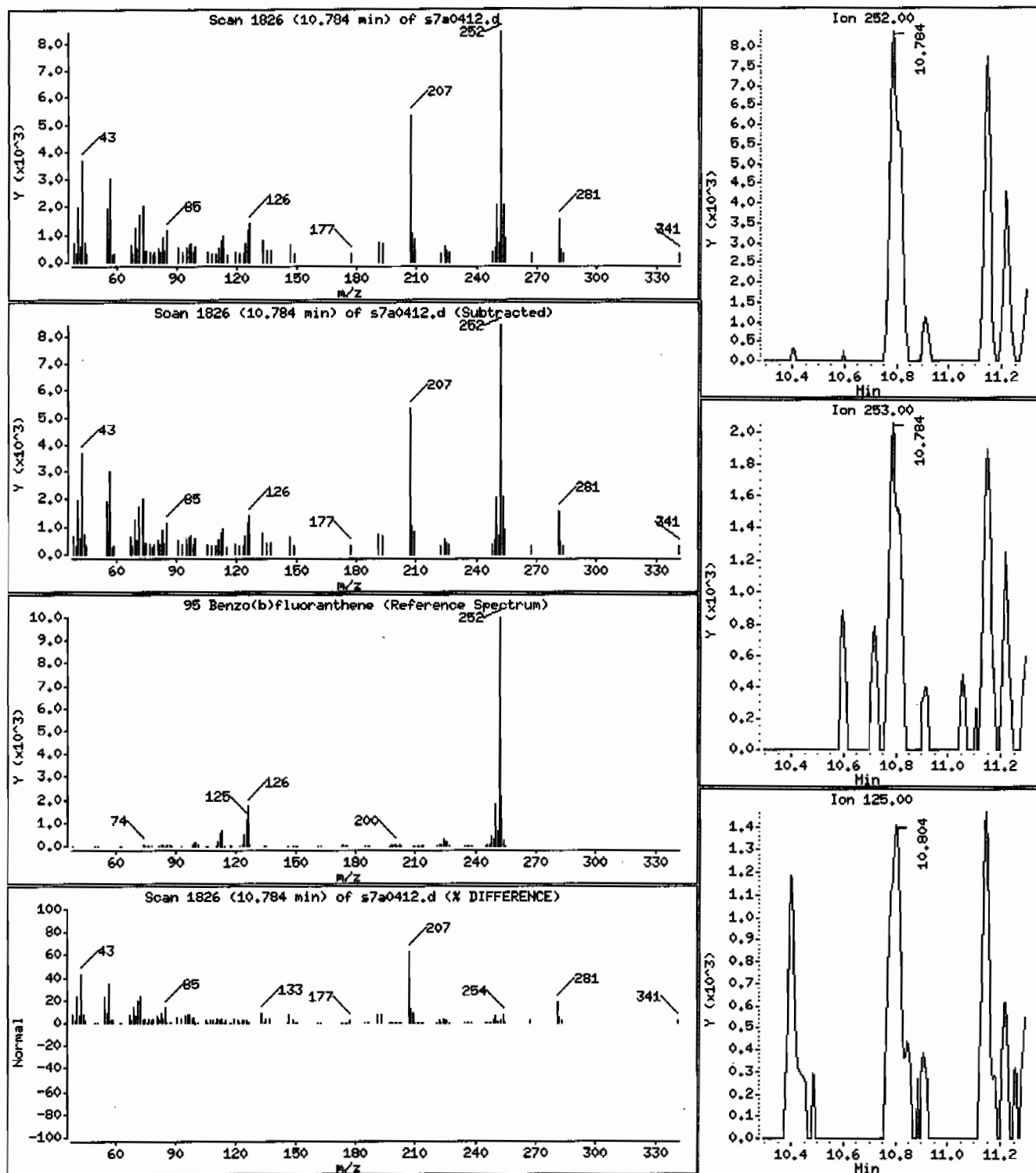
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

95 Benzo(b)fluoranthene

Concentration: 25.8 ug/Kg



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: HSD7.i

Sample Info: 12434900071937095111SVHF111LANL

Volume Injected (uL): 0.5

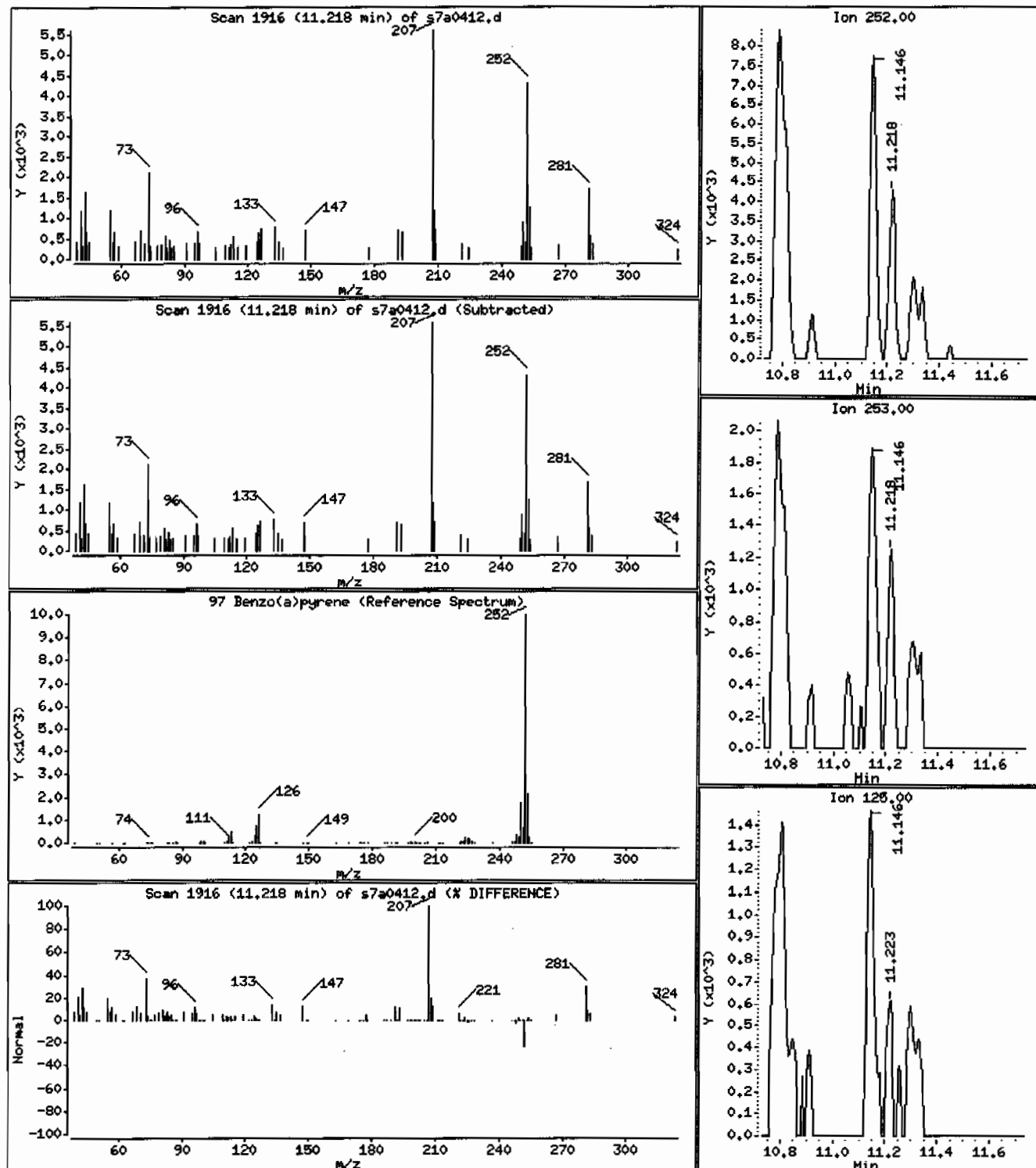
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

97 Benzo(a)pyrene

Concentration: 11.5 ug/Kg



Data File: /chem/MSD7.i/s010410.b/s7a0412.d

Page 4

Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF111LANL

Volume Injected (uL): 0.5

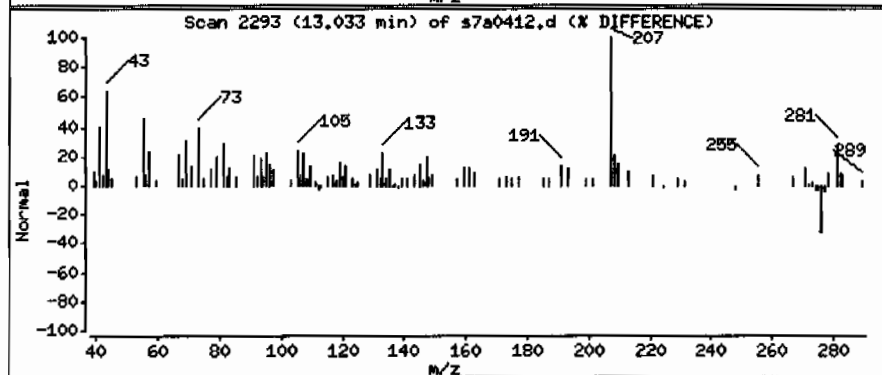
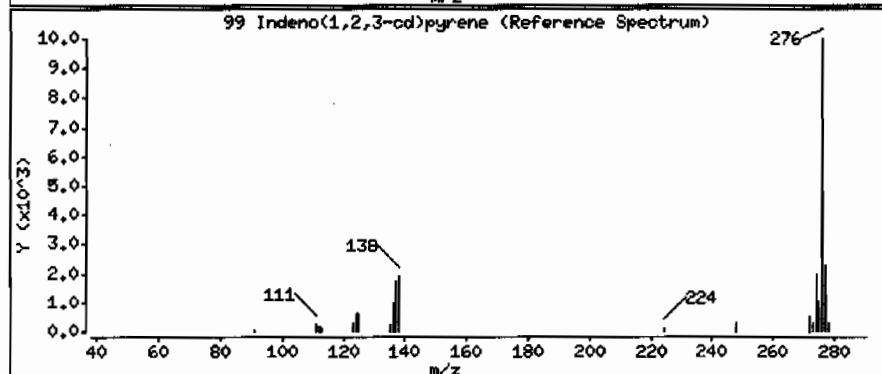
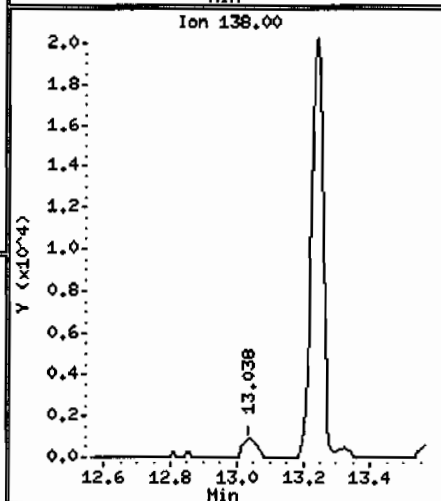
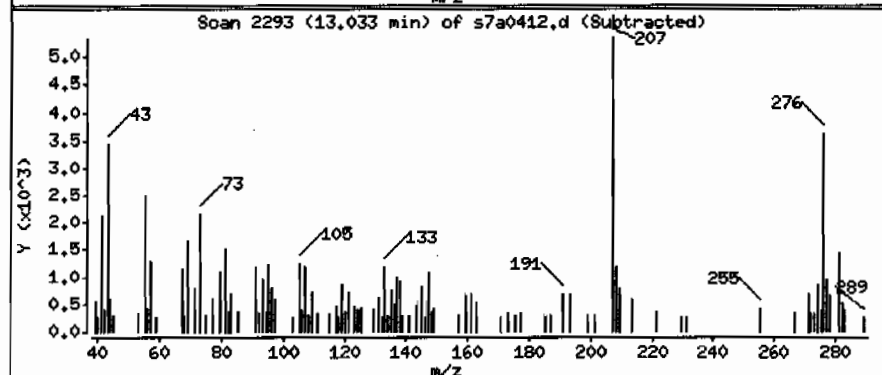
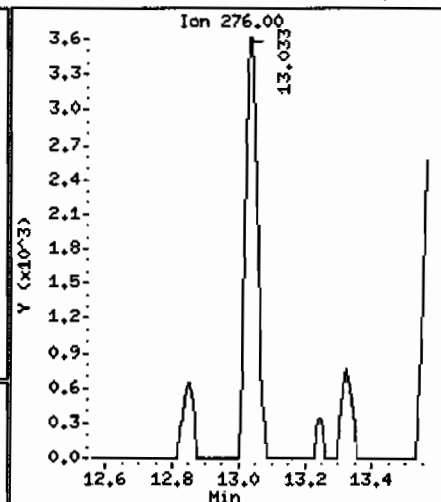
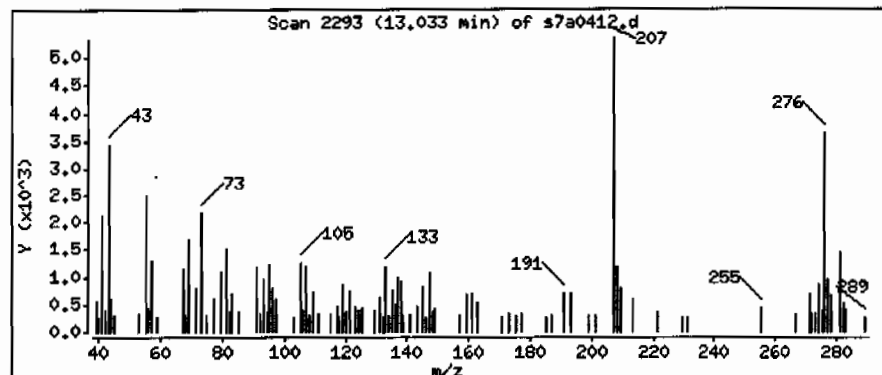
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

99 Indeno(1,2,3-cd)pyrene

Concentration: 14.2 ug/Kg



Date: 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: HSD7.1

Sample Info: 1243490007193709511SVHF111LANL

Volume Injected (uL): 0.5

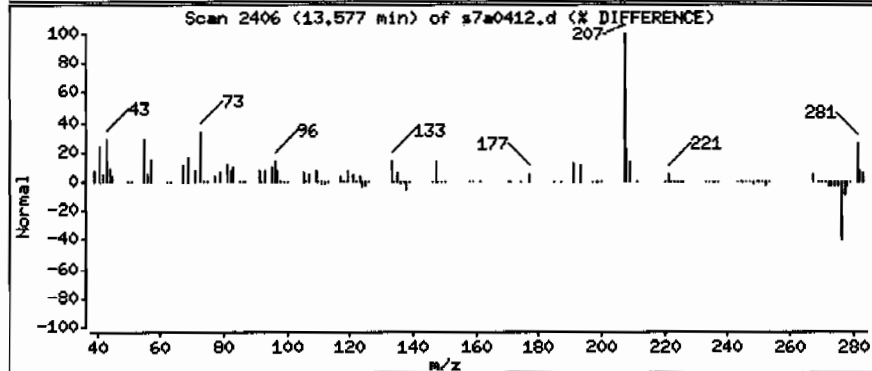
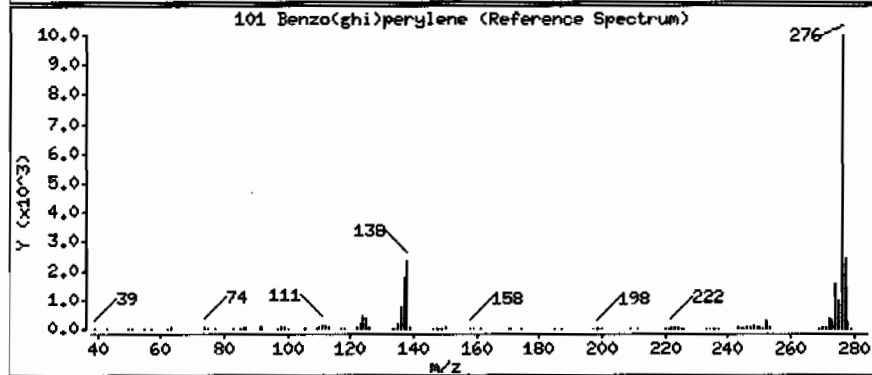
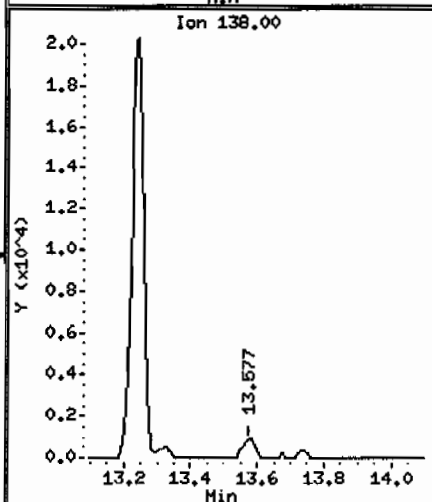
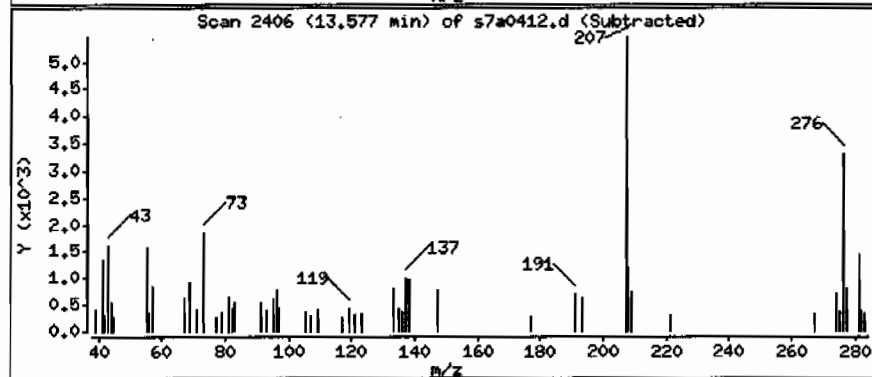
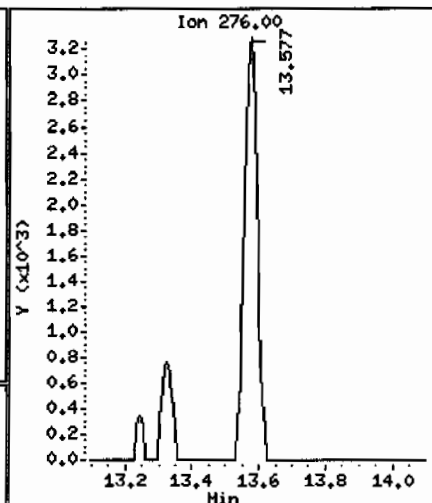
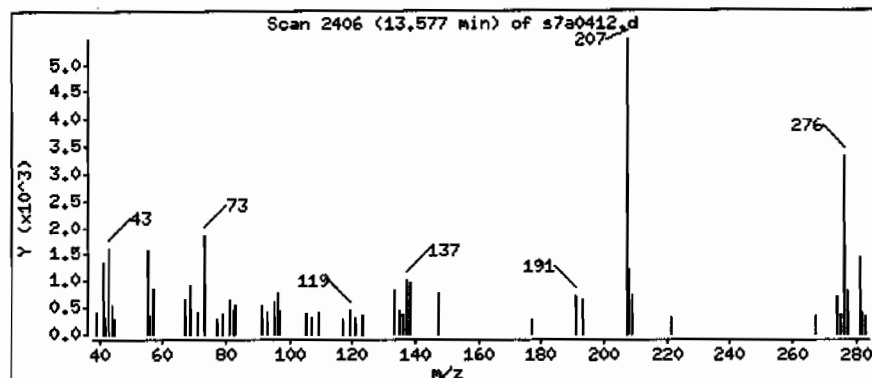
Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

101 Benzo(ghi)perylene

Concentration: 16.4 ug/Kg



Data File: /chem/MSD7.i/s010410,b/s7a0412.d

Page 1

Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVMF11ILANL

Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

Unknown

Propane, 2,2-dimethoxy-

CAS Number

77-76-9

Library

NIST05.L

Entry

4663

Quality

37

Formula

C5H12O2

Weight

104

Propane, 2,2-dimethoxy-

77-76-9

NIST05.L

4662

33

C5H12O2

104

Acetamide, N-methyl-

79-16-3

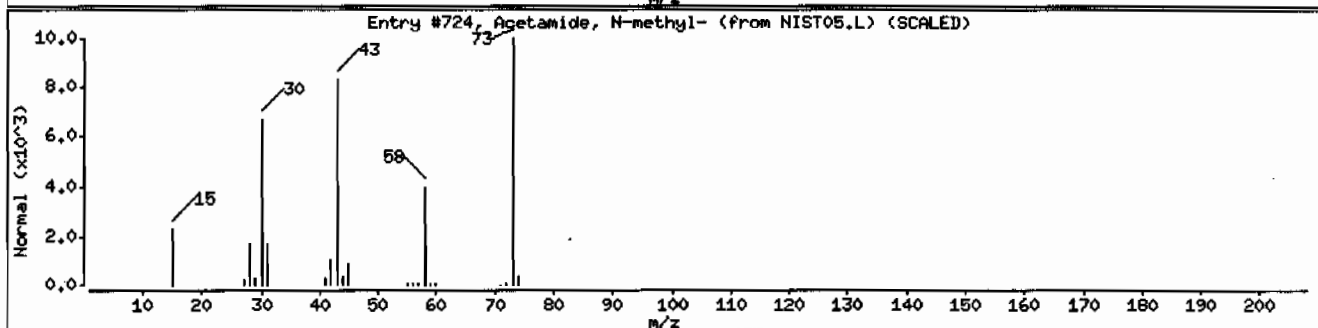
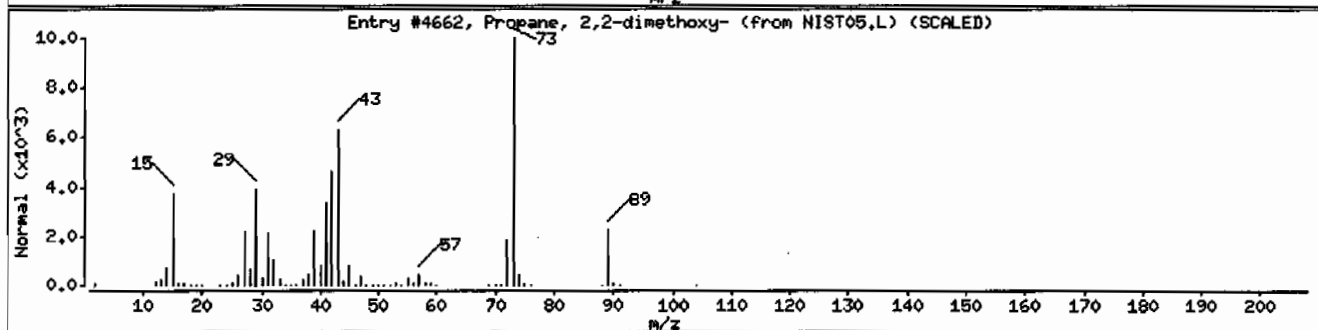
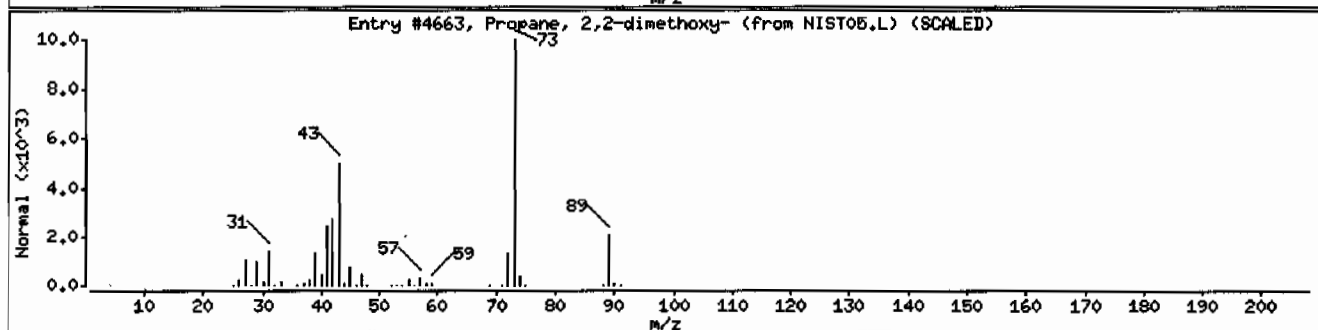
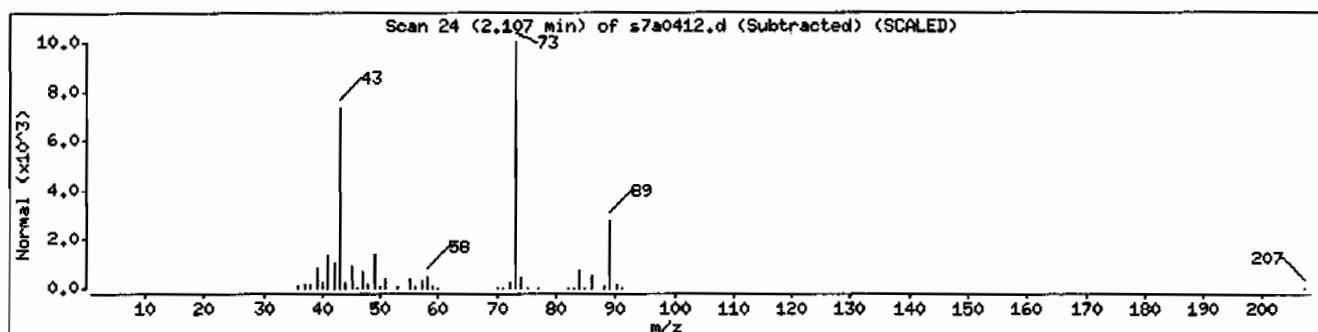
NIST05.L

724

32

C3H7NO

73



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 12434900071937095111SVHF111LANL

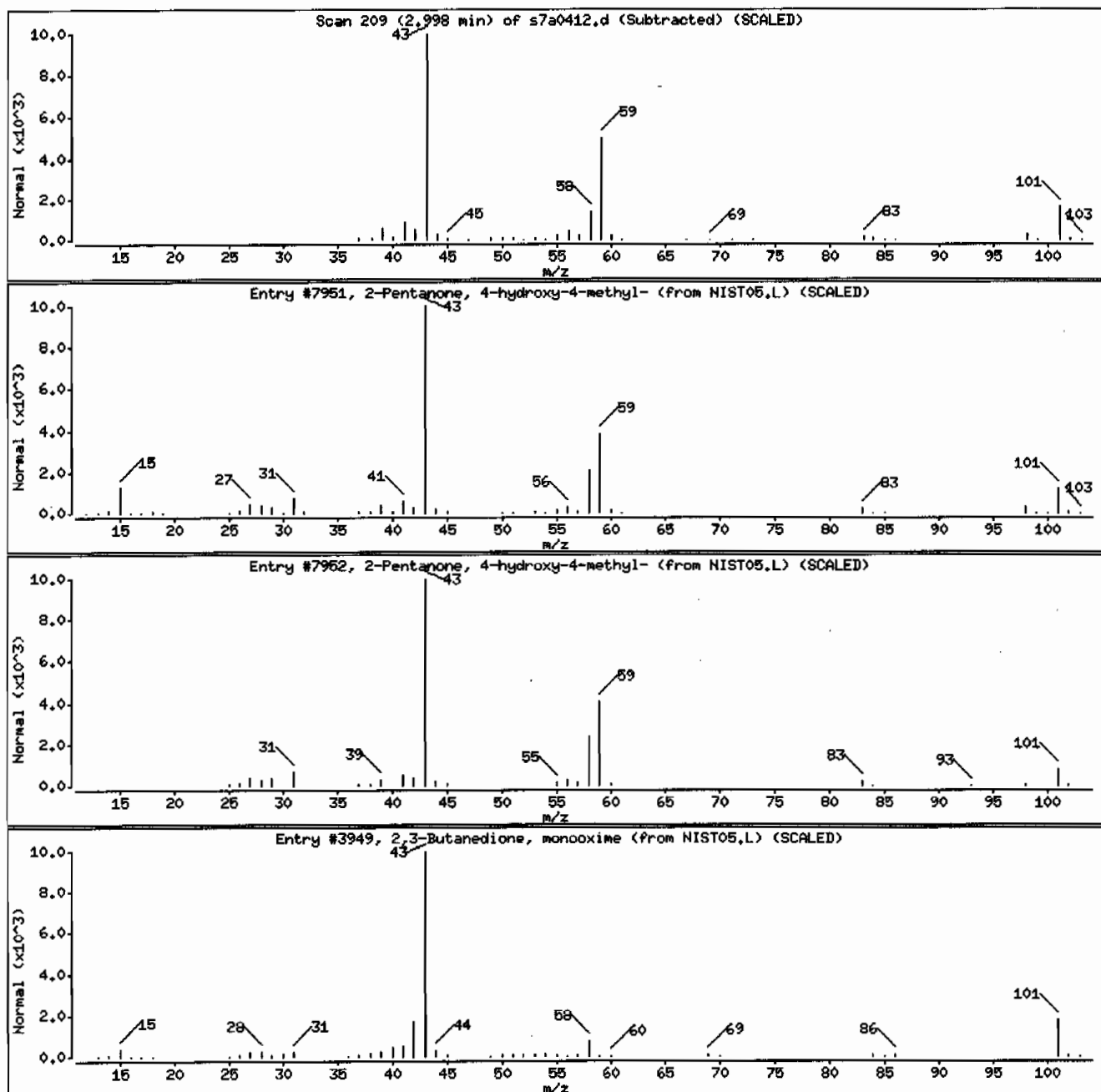
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3949	27	C4H7NO2	101



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF111LANL

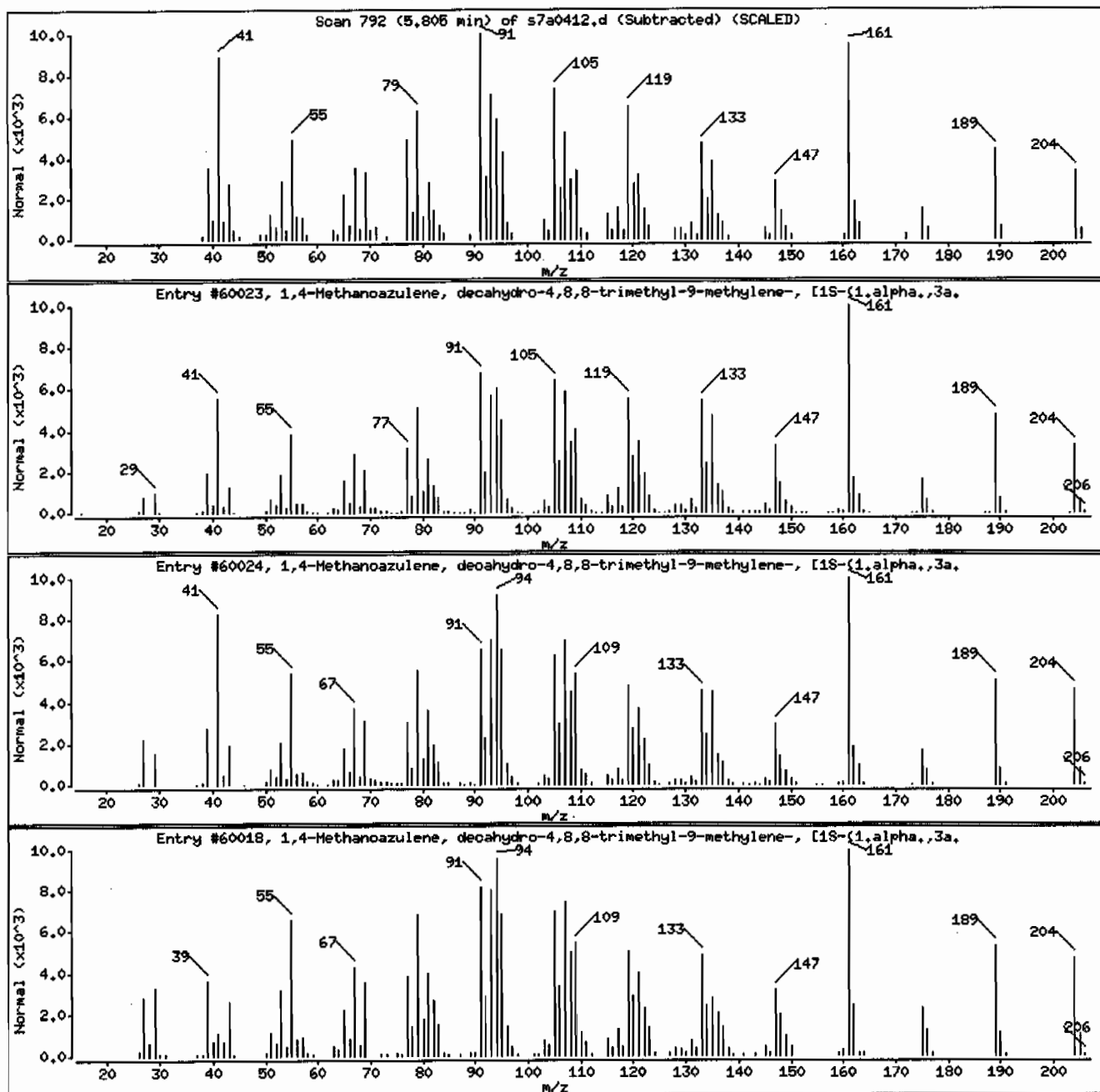
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60023	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	98	C15H24	204



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF11/LANL

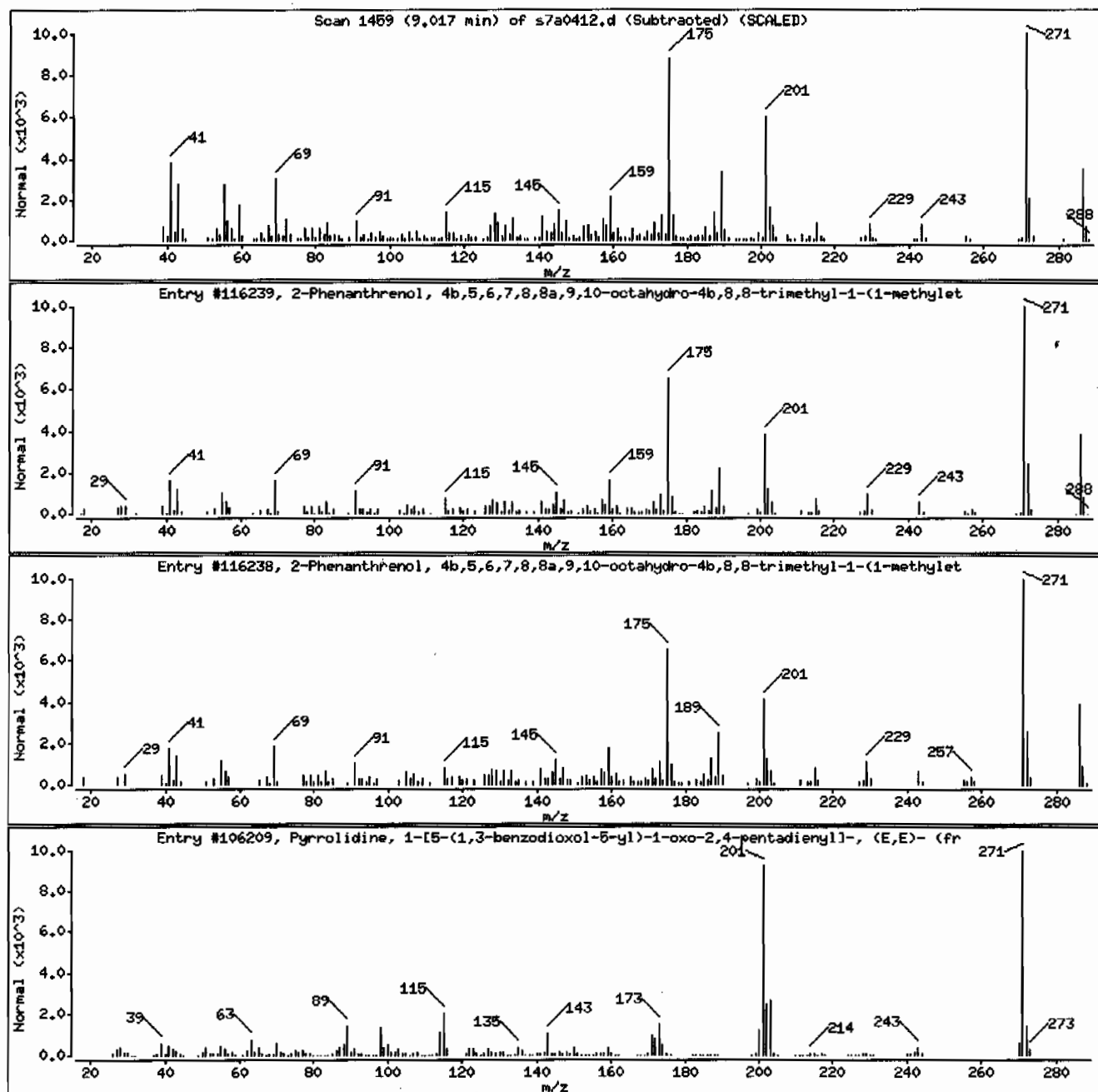
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	98	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116238	95	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	41	C16H17NO3	271



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF11ILANL

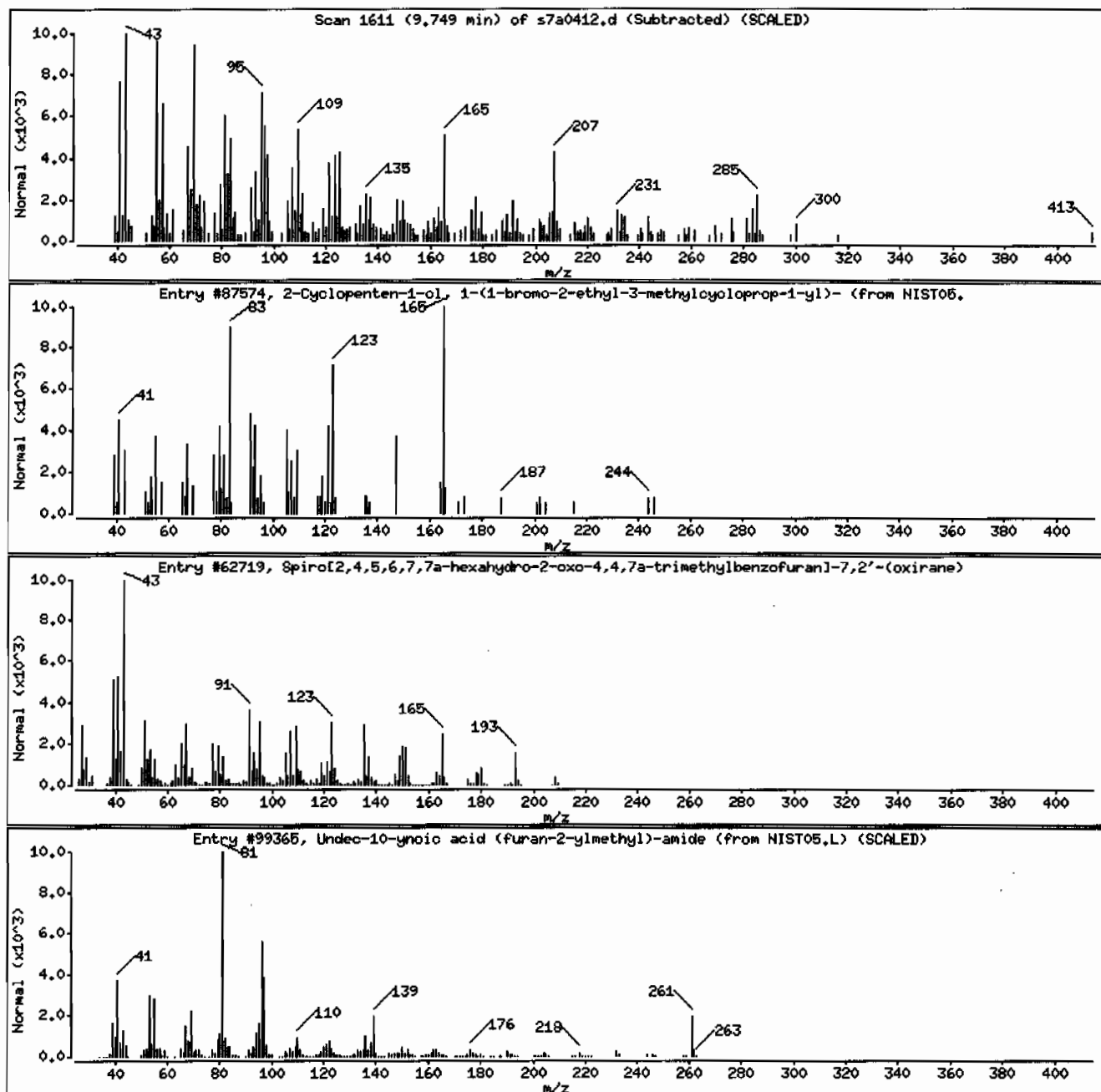
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Cyclopenten-1-ol, 1-(1-bromo-2-ethyl-3	79209-32-8	NIST05.L	87574	45	C11H17BrO	244
Spiro[2,4,5,6,7,7a-hexahydro-2-oxo-4,4,7	1000197-10-9	NIST05.L	62719	42	C12H16O3	208
Undec-10-ynoic acid (furan-2-ylmethyl)-a	332167-72-3	NIST05.L	99365	40	C16H23NO2	261



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511|SVHF11|LANL

Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match

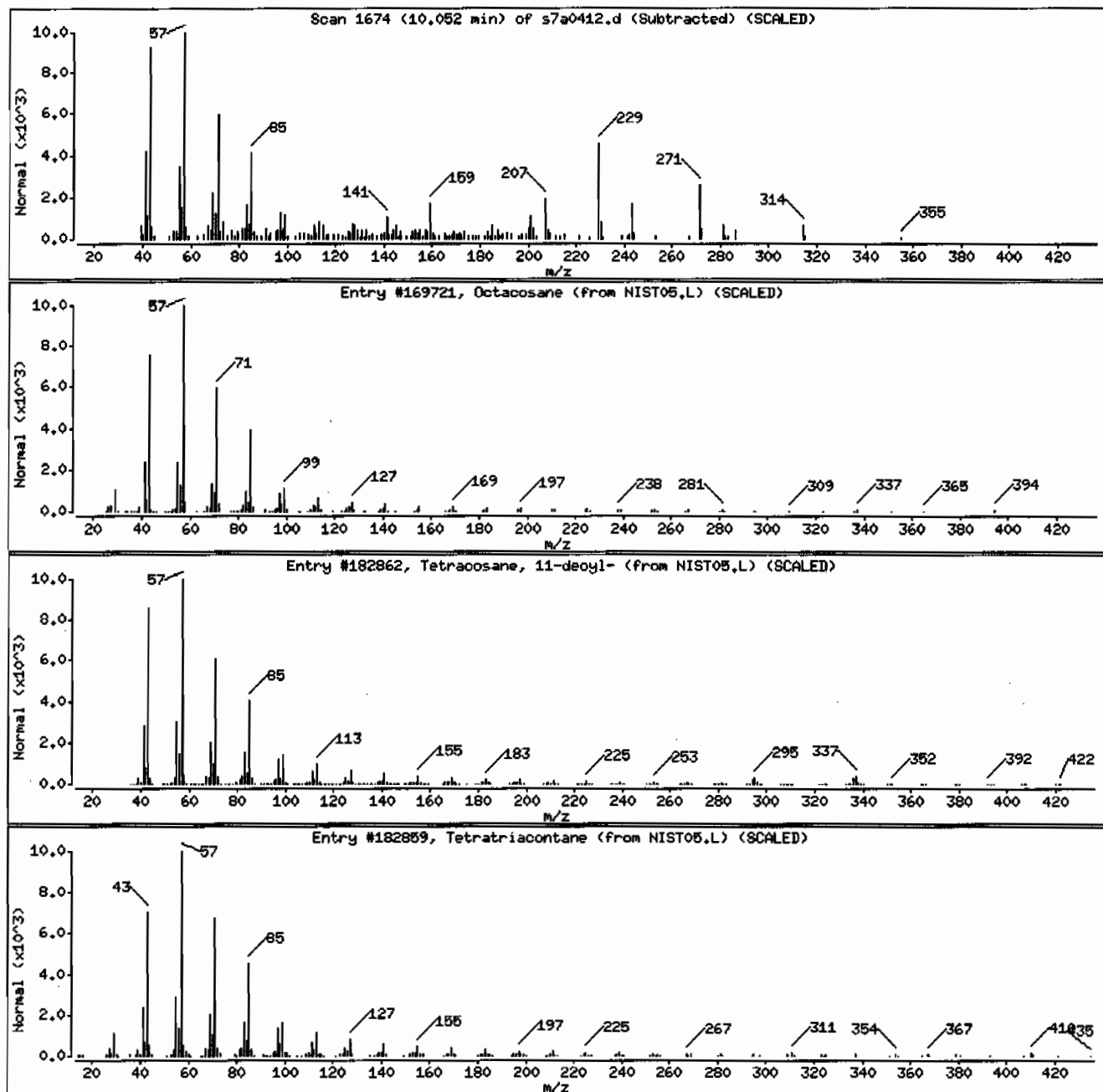
Unknown

Octacosane

Tetracosane, 11-decyl-

Tetratriacontane

CAS Number	Library	Entry	Quality	Formula	Weight
630-02-4	NIST05.L	169721	46	C28H58	394
58429-84-0	NIST05.L	182862	46	C34H70	479
14167-59-0	NIST05.L	182859	46	C34H70	479



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: HSD7,i

Sample Info: 12434900071937095111SVMF111LANL

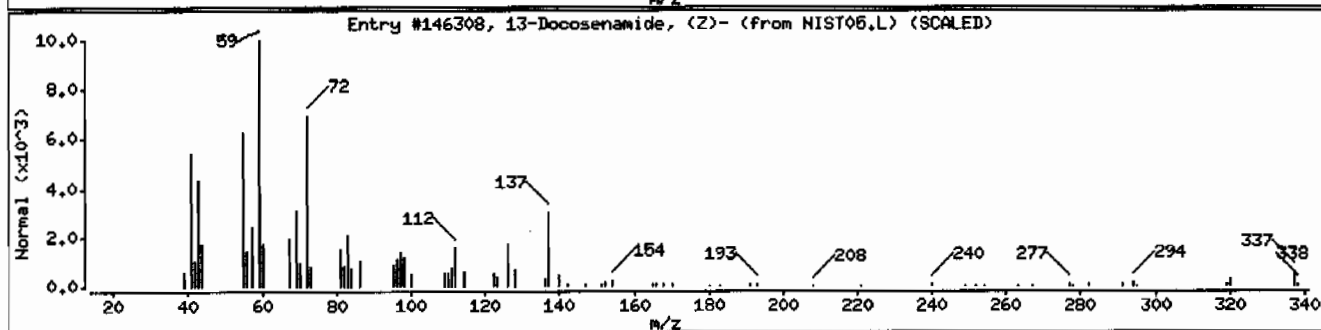
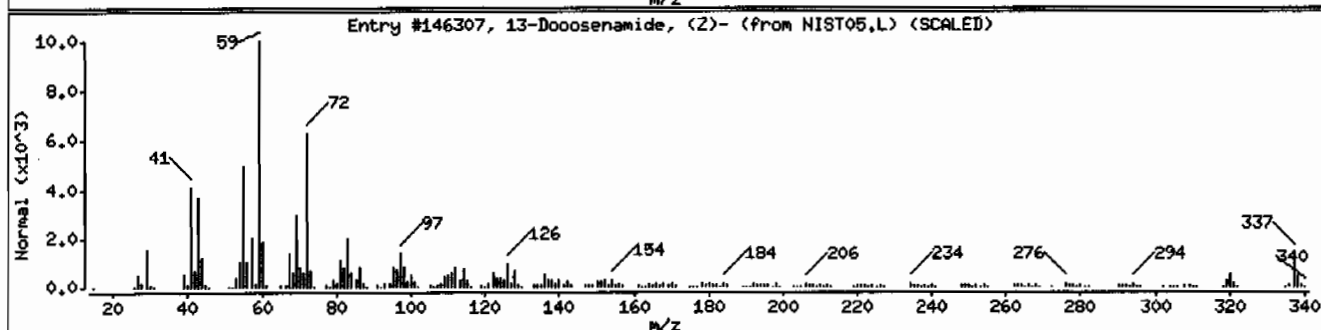
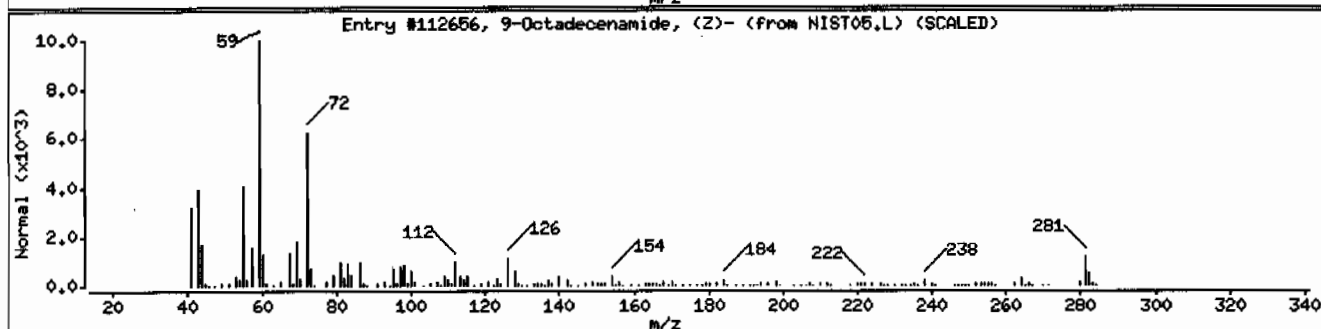
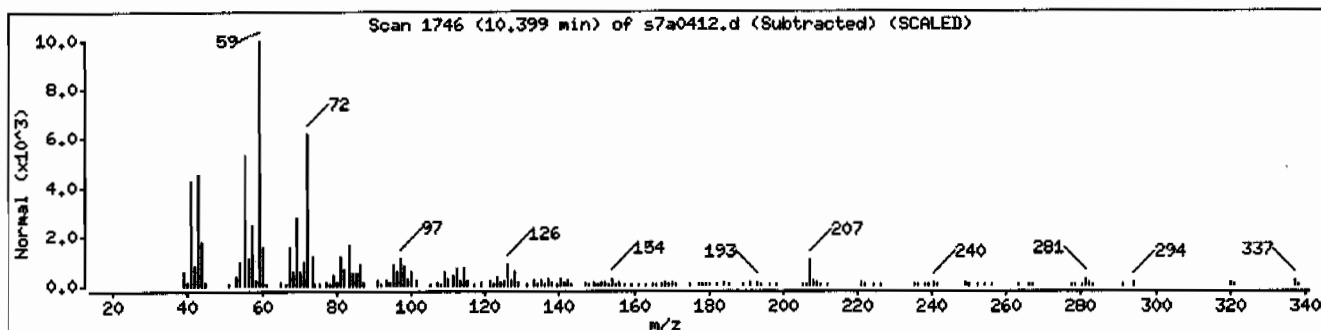
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NIST05.L	112656	95	C18H35NO	281
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146307	95	C22H43NO	337
13-Docosenamide, (Z)-	112-84-5	NIST05.L	146308	91	C22H43NO	337



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: MSD7.i

Sample Info: 1243490007193709511SVHF111LANL

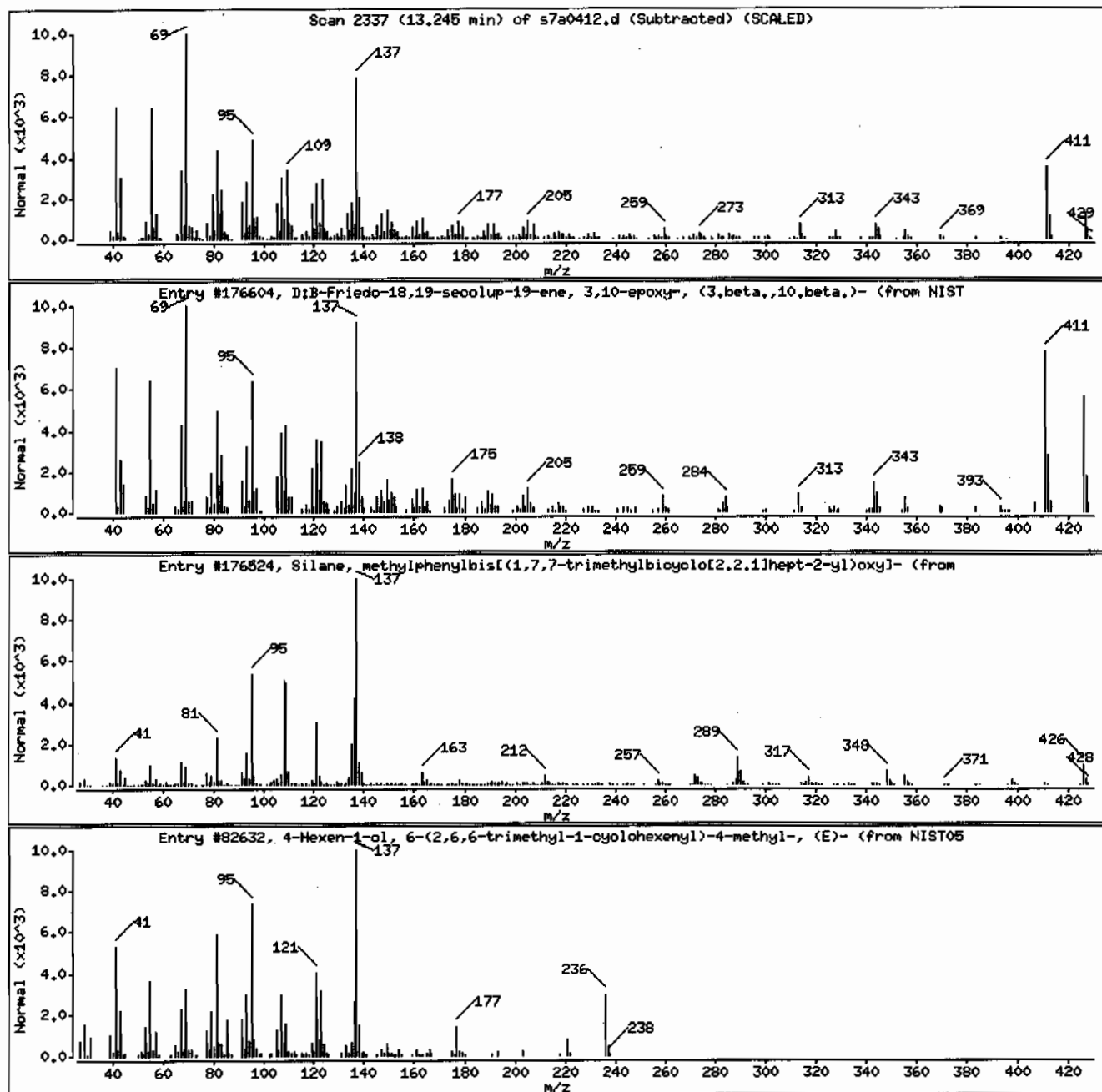
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dib-Friedo-18,19-secolup-19-ene, 3,10-ep	35060-26-5	NIST05.L	176604	46	C30H50O	426
Silane, methylphenylbis[(1,7,7-trimethyl	74806-99-8	NIST05.L	176524	43	C27H42O2Si	426
4-Hexen-1-ol, 6-(2,6,6-trimethyl-1-cyclo	1000221-57-6	NIST05.L	82632	38	C16H28O	236



Date : 04-JAN-2010 15:01

Client ID: RE12-10-7296

Instrument: HSD7.i

Sample Info: 1243490007193709511SVHF111LANL

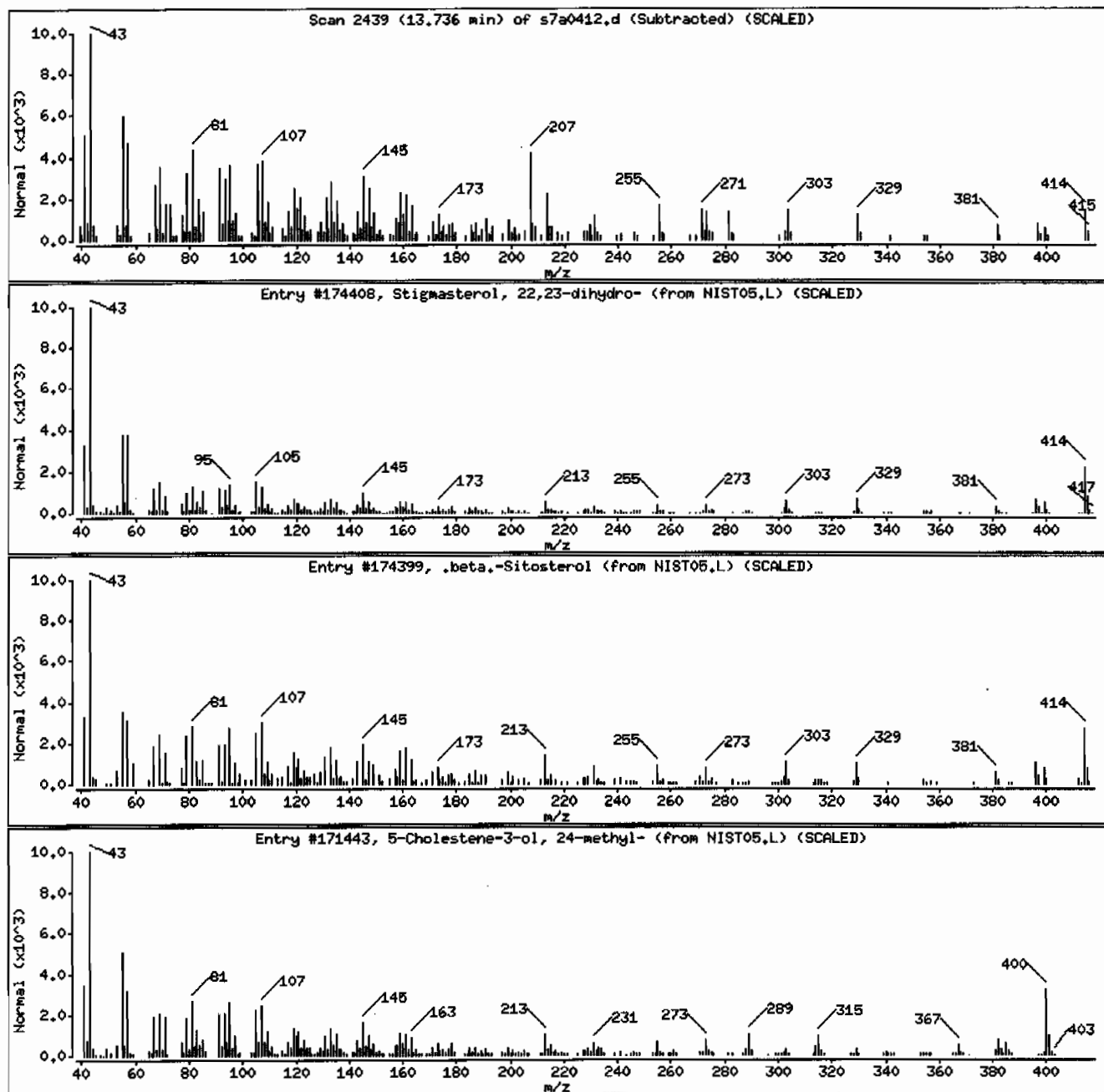
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Stigmasterol, 22,23-dihydro-	1000214-20-7	NIST05.L	174408	92	C ₂₉ H ₅₀ O	414
.beta.-Sitosterol	83-46-5	NIST05.L	174399	55	C ₂₉ H ₅₀ O	414
5-Cholestene-3-ol, 24-methyl-	1000214-17-4	NIST05.L	171443	38	C ₂₈ H ₄₈ O	400



Standard Data

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	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		10	20	40	50	80	100	120
Pyridine		10	20	40	50	80	100	120
Aniline		10	20	40	50	80	100	120
Benzaldehyde		10	20	40	50	80	100	120
Phenol		10	20	40	50	80	100	120
bis(2-Chloroethyl)ether	1	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
Acetophenone		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
Caprolactam		10	20	40	50	80	100	120

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	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
1,1'-Biphenyl		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
Tributylphosphate		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
Atrazine		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
Benzidine		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
3,3'-Dichlorobenzidine		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 8270C/8270D/EPA 625

Calibration Standard Concentration Levels*

	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
Carbazole	1	10	20	40	50	80	100	120

APPENDIX IX

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-Nitrosodilethylamine	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
Triethylphosphorothioate	10	20	40	50	80	100	120
2,6-Dichlorophenol	10	20	40	50	80	100	120
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
m-Dinitrobenzene	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
2,3,4,6-Tetrachlorophenol	10	20	40	50	80	100	120
5-Nitro-o-toluidine	10	20	40	50	80	100	120
Thionazin	10	20	40	50	80	100	120
Sulfotepp	10	20	40	50	80	100	120
Phorate	10	20	40	50	80	100	120
1,3,5-Trinitrobenzene	10	20	40	50	80	100	120
Phenacetin	10	20	40	50	80	100	120
Diallate (cis and trans)	10	20	40	50	80	100	120

SW846 8270C/8270D/EPA 625

Calibration Standard Concentration Levels*

	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Dimethoate	10	20	40	50	80	100	120	
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	
Dinoseb	10	20	40	50	80	100	120	
Disulfoton	10	20	40	50	80	100	120	
Methyl parathion	10	20	40	50	80	100	120	
4-Nitroquinoline oxide	10	20	40	50	80	100	120	
Methapyrilene	10	20	40	50	80	100	120	
Isodrin	10	20	40	50	80	100	120	
Aramite	10	20	40	50	80	100	120	
Kepone	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
Famphur	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
Hexachlorophene	500	1000	1250	1500	1750	2000	
p-Benzquinone	10	20	40	50	80	100	120
Parathion	10	20	40	50	80	100	120
Methoxychlor	10	20	40	50	80	100	120
2-Ethoxyethanol	50	75	100	125	150	200	250
cis-Diallate	1.5	3	6	7.5	12	15	18
trans-Diallate	8.5	17	34	42	68	85	102
Dibenzo(a,e)pyrene	50	75	100	125	150	200	250
Phthalic anhydride	50	75	100	125	150	200	250
1,4-Dinitrobenzene	50	75	100	125	150	200	250
(2,3-Dibromopropyl)phosphate	50	75	100	125	150	200	250
Methylenebis(2-chloroaniline)	50	75	100	125	150	200	250
p-Toluidine	10	20	40	50	80	100	120
m-Toluidine	10	20	40	50	80	10	120

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
bis(Chloromethyl)ether		10	20	40	50	80	100	120
Thiophenol		10	20	40	50	80	100	120
4-Chlorothio phenol		10	20	40	50	80	100	120
4-Chlorothio anisole		10	20	40	50	80	100	120
Phthalic acid		10	20	40	50	80	100	120
Hydroxymethyl phthalamide		10	20	40	50	80	100	120
Diphenyl sulfide		10	20	40	50	80	100	120
Diphenyl disulfide		10	20	40	50	80	100	120
Phenyl sulfone		10	20	40	50	80	100	120
Octachlorostyrene		10	20	40	50	80	100	120
2,2'-Dichlorobenzil		10	20	40	50	80	100	120
bis(p-Chlorophenyl)disulfide		10	20	40	50	80	100	120
bis(p-Chlorophenyl)sulfone		10	20	40	50	80	10	120

All values are mg/L without the prep factor.

Indicates the calibration verification concentration level used

* Usual calibration levels using SCAN methodology

Level 1 may be included at request of client

(06/08)

Report Date: 03-Jan-2010 13:46

Calibration History

Method : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
Start Cal Date: 30-DEC-2009 09:11
End Cal Date : 31-DEC-2009 00:58

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
30-DEC-2009 09:11	MEGA-1ppm	/chem/MSD7.i/s123009.b/s713003.d
Cal Level: 2 , Cal Amount: 10.00000		
30-DEC-2009 22:47	NEV	/chem/MSD7.i/s123009.b/s713038.d
30-DEC-2009 20:36	HEX	/chem/MSD7.i/s123009.b/s713032.d
30-DEC-2009 16:41	PEST	/chem/MSD7.i/s123009.b/s713021.d
30-DEC-2009 14:08	AP12	/chem/MSD7.i/s123009.b/s713014.d
30-DEC-2009 09:38	MEGA	/chem/MSD7.i/s123009.b/s713004.d
Cal Level: 3 , Cal Amount: 20.00000		
30-DEC-2009 23:09	NEV	/chem/MSD7.i/s123009.b/s713039.d
30-DEC-2009 20:58	HEX	/chem/MSD7.i/s123009.b/s713033.d
30-DEC-2009 17:03	PEST	/chem/MSD7.i/s123009.b/s713022.d
30-DEC-2009 14:30	AP12	/chem/MSD7.i/s123009.b/s713015.d
30-DEC-2009 11:53	MEGA	/chem/MSD7.i/s123009.b/s713009.d
Cal Level: 4 , Cal Amount: 40.00000		
30-DEC-2009 23:30	NEV	/chem/MSD7.i/s123009.b/s713040.d
30-DEC-2009 21:19	HEX	/chem/MSD7.i/s123009.b/s713034.d
30-DEC-2009 17:25	PEST	/chem/MSD7.i/s123009.b/s713023.d
30-DEC-2009 14:52	AP12	/chem/MSD7.i/s123009.b/s713016.d
30-DEC-2009 10:32	MEGA	/chem/MSD7.i/s123009.b/s713006.d
Cal Level: 5 , Cal Amount: 50.00000		
30-DEC-2009 23:52	NEV	/chem/MSD7.i/s123009.b/s713041.d
30-DEC-2009 21:41	HEX	/chem/MSD7.i/s123009.b/s713035.d
30-DEC-2009 17:47	PEST	/chem/MSD7.i/s123009.b/s713024.d
30-DEC-2009 15:14	AP12	/chem/MSD7.i/s123009.b/s713017.d
30-DEC-2009 10:59	MEGA	/chem/MSD7.i/s123009.b/s713007.d
Cal Level: 6 , Cal Amount: 80.00000		
31-DEC-2009 00:14	NEV	/chem/MSD7.i/s123009.b/s713042.d
30-DEC-2009 22:03	HEX	/chem/MSD7.i/s123009.b/s713036.d
30-DEC-2009 18:09	PEST	/chem/MSD7.i/s123009.b/s713025.d
30-DEC-2009 15:36	AP12	/chem/MSD7.i/s123009.b/s713018.d
30-DEC-2009 11:26	MEGA	/chem/MSD7.i/s123009.b/s713008.d
Cal Level: 7 , Cal Amount: 100.00000		

31-DEC-2009 00:36	NEV	/chem/MSD7.i/s123009.b/s713043.d
30-DEC-2009 22:25	HEX	/chem/MSD7.i/s123009.b/s713037.d
30-DEC-2009 18:31	PEST	/chem/MSD7.i/s123009.b/s713026.d
30-DEC-2009 15:58	AP12	/chem/MSD7.i/s123009.b/s713019.d
30-DEC-2009 12:20	MEGA	/chem/MSD7.i/s123009.b/s713010.d

Cal Level: 8 , Cal Amount: 120.00000

31-DEC-2009 00:58	NEV	/chem/MSD7.i/s123009.b/s713044.d
30-DEC-2009 18:53	PEST	/chem/MSD7.i/s123009.b/s713027.d
30-DEC-2009 16:20	AP12	/chem/MSD7.i/s123009.b/s713020.d
30-DEC-2009 12:47	MEGA	/chem/MSD7.i/s123009.b/s713011.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 13:41	MEGA	/chem/MSD7.i/s123009.b/s713013.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 19:15	AP12	/chem/MSD7.i/s123009.b/s713028.d
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Ccal Level: 4 , Ccal Amount: 40.0

31-DEC-2009 01:20	HEX	/chem/MSD7.i/s123009.b/s713045.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 21:19	HEX	/chem/MSD7.i/s123009.b/s713034.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 23:30	NEV	/chem/MSD7.i/s123009.b/s713040.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 19:36	PEST	/chem/MSD7.i/s123009.b/s713029.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 17:25	PEST	/chem/MSD7.i/s123009.b/s713023.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 14:52	AP12	/chem/MSD7.i/s123009.b/s713016.d
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Ccal Level: 4 , Ccal Amount: 40.0

30-DEC-2009 10:32	MEGA	/chem/MSD7.i/s123009.b/s713006.d
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GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11o00884

Calibration File Names:

Level 1: /chem/MSD7.i/s123009.b/s713003.d
 Level 2: /chem/MSD7.i/s123009.b/s713038.d
 Level 3: /chem/MSD7.i/s123009.b/s713039.d
 Level 4: /chem/MSD7.i/s123009.b/s713040.d
 Level 5: /chem/MSD7.i/s123009.b/s713041.d
 Level 6: /chem/MSD7.i/s123009.b/s713042.d
 Level 7: /chem/MSD7.i/s123009.b/s713043.d
 Level 8: /chem/MSD7.i/s123009.b/s713044.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	++++ 0.66373	0.68658 0.66986	0.69451	0.70150	0.70069	0.67515	AVRG		0.68458		2.22219
2 Pyridine	++++ 0.85832	0.79595 0.80228	0.82730	0.76536	0.85050	0.79361	AVRG		0.81333		4.11297
4 Aniline	++++ 0.55257	0.57049 0.54444	0.55608	0.55673	0.54622	0.55140	AVRG		0.55399		1.55322
209 Benzaldehyde	++++ 0.84720	0.97540 0.79804	1.03213	++++	0.96579	0.86701	AVRG		0.91426		9.84693
6 Phenol	++++ 1.29816	1.34105 1.30128	1.39119	1.37632	1.33829	1.31959	AVRG		1.33798		2.65678

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
7 bis (2-Chloroethyl) ether	1.10066	1.05725	1.05096	1.07548	1.03163	1.02643					
	0.99881	0.99735					AVRG		1.04232		3.45595
8 2-Chlorophenol	++++	1.15382	1.15591	1.14823	1.11649	1.08927					
	1.06655	1.06704					AVRG		1.11390		3.58874
203 n-Decane	++++	2.14466	2.09058	2.03394	1.94328	1.72352					
	1.64340	1.60915					AVRG		1.88408		11.78480
9 1,3-Dichlorobenzene	++++	1.32395	1.34288	1.31386	1.28398	1.23732					
	1.22110	1.21433					AVRG		1.27677		4.11716
11 1,4-Dichlorobenzene	++++	1.30519	1.29036	1.29213	1.24814	1.20243					
	1.17851	1.18200					AVRG		1.24268		4.41704
12 Benzyl alcohol	++++	0.70405	0.71754	0.72409	0.70936	0.71216					
	0.70310	0.71389					AVRG		0.71203		1.04112
13 1,2-Dichlorobenzene	++++	1.24741	1.20389	1.20387	1.15233	1.08107					
	1.06330	1.05764					AVRG		1.14422		6.75677
14 bis (2-Chloroisopropyl) ether	++++	2.78921	2.72033	2.70648	2.61175	2.42973					
	2.37307	2.33585					AVRG		2.56663		7.18804
15 o-Cresol	++++	0.88059	0.87191	0.87457	0.85597	0.80504					
	0.80071	0.79081					AVRG		0.83996		4.68508

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
16 Acetophenone	++++ 1.19816	1.26562 1.19114	1.35095	++++ 1.29193	1.21831	AVRG	1.25268	4.96048			
17 N-Nitrosodipropylamine	0.82877 0.76888	0.82048 0.78259	0.81031	0.81001	0.80447	0.78523	AVRG	0.80134	2.56146		
18 m,p-Cresols	++++ 1.10919	1.11114 1.12838	1.12865	1.14819	1.13818	1.11544	AVRG	1.12560	1.29108		
19 Hexachloroethane	++++ 0.50055	0.52376 0.50562	0.52796	0.52759	0.52645	0.50527	AVRG	0.51674	2.37618		
21 Nitrobenzene	++++ 0.26603	0.31004 0.24996	0.31521	0.29800	0.28167	0.27269	AVRG	0.28480	8.42999		
22 Isophorone	++++ 0.51803	0.59956 0.49473	0.59000	0.56910	0.55746	0.52879	AVRG	0.55110	7.02595		
23 2-Nitrophenol	++++ 0.12587	0.15588 0.12043	0.18280	0.14556	0.13967	0.13172	AVRG	0.14313	14.81513		
24 2,4-Dimethylphenol	++++ 0.22698	0.28542 0.21413	0.27843	0.26626	0.25739	0.23591	AVRG	0.25207	10.70220		
25 bis(2-Chloroethoxy)methane	++++ 0.28159	0.34786 0.26996	0.34919	0.32497	0.31470	0.29084	AVRG	0.31130	10.14143		

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
26 2,4-Dichlorophenol	++++ 0.20800	0.22887 0.19791	0.24532	0.23097	0.22429	0.21459	AVRG		0.22142		7.15438
27 Benzoic acid	++++ 370680	++++ 419975	42397	90340	142535	282314	LINEAR	0.26208	0.17116		0.99160
28 1,2,4-Trichlorobenzene	++++ 0.23917	0.30621 0.22479	0.30313	0.28247	0.27111	0.24872	AVRG		0.26794		11.78500
30 Naphthalene	0.93631 0.70841	0.88901 0.67548	0.87294	0.82579	0.79027	0.73543	AVRG		0.80421		11.56059
204 alpha-Terpineol	++++ 0.24166	0.31187 0.22745	0.30095	0.28701	0.27773	0.25123	AVRG		0.27113		11.67989
31 4-Chloroaniline	++++ 0.31733	0.34194 0.30921	0.33116	0.32844	0.34255	0.32468	AVRG		0.32790		3.72293
189 Caprolactam	++++ 0.08510	0.07746 0.08192	0.09166	++++	0.09028	0.08506	AVRG		0.08525		6.16806
32 Hexachlorobutadiene	++++ 0.13180	0.16299 0.12485	0.16044	0.15234	0.14802	0.13884	AVRG		0.14561		9.87446
33 4-Chloro-3-methylphenol	++++ 0.22322	0.23062 0.21288	0.25101	0.24082	0.23745	0.22694	AVRG		0.23185		5.39511

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Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	RSD or R ²
34 2-Methylnaphthalene	0.60976 0.48560	0.60117 0.46343	0.59187	0.56472	0.54240	0.50019	AVRG		0.54489		10.31916
35 1-Methylnaphthalene	0.61454 0.45862	0.58976 0.43783	0.57537	0.55069	0.52140	0.47425	AVRG		0.52781		12.39053
36 Hexachlorocyclopentadiene	++++ 0.23390	0.20546 0.22281	0.23096	0.24112	0.23360	0.24137	AVRG		0.22989		5.43328
208 1,1'-Biphenyl	++++ 1.1242	1.31989 1.08227	1.40550	++++	1.25736	1.13300	AVRG		1.22037		10.46118
205 2,3-Dichloroaniline	++++ 0.48880	0.54319 0.47342	0.54300	0.53208	0.51859	0.49143	AVRG		0.51293		5.52832
37 2,4,6-Trichlorophenol	++++ 0.28467	0.31506 0.28036	0.32173	0.31414	0.30736	0.29505	AVRG		0.30263		5.31191
38 2,4,5-Trichlorophenol	++++ 0.30411	0.31378 0.29505	0.34266	0.32564	0.32268	0.30513	AVRG		0.31558		5.09389
40 2-Chloronaphthalene	1.04453 0.90078	1.03677 0.87622	1.01563	1.00980	0.95498	0.92549	AVRG		0.97053		6.68556
42 o-Nitroaniline	++++ 0.32136	0.27803 0.31689	0.31550	0.31710	0.31361	0.32215	AVRG		0.31209		4.91059

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 Cal Date : 03-Jan-2010 13:29 11o00884

Compound	1	10	20	40	50	80	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
41 m-Nitroaniline	++++ 0.22900	0.17432 0.22266	0.16334	0.18148	0.19703	0.21873	AVRG		0.19808		13.09192
43 Dimethylphthalate	++++ 1.05462	1.19427 1.04519	1.18150	1.16376	1.12258	1.07325	AVRG		1.11931		5.56410
44 2,6-Dinitrotoluene	++++ 0.24913	0.26838 0.25069	0.27600	0.27277	0.26942	0.25693	AVRG		0.26333		4.14475
45 Acenaphthylene	1.59311 1.39954	1.61871 1.37195	1.59533	1.57432	1.50286	1.43578	AVRG		1.51145		6.47020
47 Acenaphthene	1.02116 0.89233	0.99670 0.88235	1.01648	0.98811	0.94816	0.90309	AVRG		0.95605		5.98674
48 2,4-Dinitrophenol	++++ 140863	++++ 168878	18116	35595	57209	106361	LINR	0.32035	0.13759		0.99714
49 Dibenzofuran	++++ 1.24625	1.40617 1.21583	1.40063	1.37469	1.32616	1.27038	AVRG		1.32002		5.84423
50 2,4-Dinitrotoluene	++++ 0.33979	0.31490 0.34237	0.34564	0.34340	0.34518	0.34156	AVRG		0.33898		3.18855
51 Diethylphthalate	++++ 1.05676	1.19530 1.04546	1.19236	1.16309	1.13729	1.08057	AVRG		1.12441		5.62910

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Compound	1	10	20	40	50	80	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	100	120									
	Level 7	Level 8									
52 4-Nitrophenol	++++ 222749	150781 265401	432551	752261	1065891	1774951	LINR	0.092691	0.199661		0.999721
53 Fluorene	1.212411 1.006951	1.198951 0.999511	1.187521	1.150261	1.102391	1.036351	AVRG		1.111791		7.922911
54 4-Chlorophenylphenylether	++++ 0.514361	0.584011 0.507511	0.584961	0.564401	0.556221	0.532441	AVRG		0.549131		5.760511
55 2-Methyl-4,6-dinitrophenol	++++ 214732	124611 2586401	348221	614571	934251	1629861	LINR	0.181161	0.108061		0.997461
56 p-Nitroaniline	++++ 2278101	178401 2769031	412391	622201	876911	1768151	LINR	0.203561	0.212821		0.990131
133 Diphenylamine	++++ 0.453571	0.555621 0.446921	0.529131	0.496761	0.473911	0.452361	AVRG		0.486901		8.662701
58 1,2-Diphenylhydrazine	++++ 0.622621	0.718591 0.605351	0.691741	0.671381	0.649991	0.623501	AVRG		0.654741		6.294761
59 Tributylphosphate	++++ 1.245861	1.389941 1.218211	1.486181	1.352721	1.291561	1.277571	AVRG		1.323151		7.034301
61 4-Bromophenylphenylether	++++ 0.167441	0.196031 0.165821	0.188071	0.184851	0.182251	0.171111	AVRG		0.179371		6.379841

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 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1 - m2	%RSD or R^2
63 Hexachlorobenzene	++++ 0.16311	0.20282 0.16009	0.18871	0.18229	0.17474	0.16487	AVRG	0.17666	8.83671	
207 Atrazine	++++ 0.04013	0.04761 0.03799	0.04973	++++	0.04583	0.04189	AVRG	0.04386	10.43221	
65 Pentachlorophenol	++++ 0.09956	0.08179 0.09871	0.09106	0.09684	0.09796	0.09821	AVRG	0.09488	6.76370	
206 n-Octadecane	++++ 0.44148	0.62600 ++++	0.58751	0.57359	0.54614	0.47586	AVRG	0.54176	12.95233	
68 Phenanthrene	0.96374 0.82625	0.94453 0.80370	0.93991	0.91864	0.90130	0.84334	AVRG	0.89268	6.75873	
69 Anthracene	0.94377 0.84549	0.94579 0.81859	0.95595	0.92977	0.90147	0.84943	AVRG	0.89878	5.97314	
72 Di-n-butylphthalate	++++ 1.02192	1.20069 0.99676	1.14608	1.16313	1.13368	1.05275	AVRG	1.10215	7.06097	
76 Fluoranthene	0.99561 0.95029	1.03503 0.90454	1.05237	1.04989	1.01441	0.95737	AVRG	0.99494	5.35645	
77 Benzidine	++++ 668158	76049 ++++	105996	++++	410097	514598	LINR	0.02714	0.29749	0.99021

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 Quant Method : ISTD
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 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 llo00884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
	100	120									
	Level 7	Level 8									
79 Pyrene	1.13337	1.25372	1.22515	1.17590	1.16457	1.10869					
	1.09073	1.04300				AVRG			1.14939		6.08396
85 Butylbenzylphthalate	++++	0.55451	0.54191	0.53909	0.54980	0.53712					
	0.52219	0.51523				AVRG			0.53712		2.62434
89 Benzo(a)anthracene	1.01560	0.99030	0.98455	0.98677	0.96102	0.93948					
	0.92692	0.92154				AVRG			0.96577		3.51289
90 3,3'-Dichlorobenzidine	++++	0.29694	0.33669	++++	0.34244	0.31986					
	0.31928	0.32363				AVRG			0.32314		4.92830
92 Chrysene	0.94266	0.92573	0.93584	0.91230	0.88720	0.84592					
	0.84249	0.81710				AVRG			0.88866		5.40632
93 bis(2-Ethylhexyl)phthalate	0.54158	0.80637	0.76054	0.76477	0.74448	0.71074					
	0.68055	0.66283				AVRG			0.70898		11.61613
94 Di-n-octylphthalate	++++	1.27704	1.20814	1.26850	1.26709	1.21384					
	1.14449	1.15560				AVRG			1.21924		4.47332
95 Benzo(b)fluoranthene	0.95486	0.98449	1.03093	1.01763	1.01349	0.98519					
	0.96297	0.99450				AVRG			0.99301		2.68001
96 Benzo(k)fluoranthene	0.95159	1.05551	1.03038	0.98006	0.96739	0.91008					
	0.89206	0.84225				AVRG			0.95367		7.44156

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 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
97 Benzo(a)pyrene	0.77570 0.87479	0.87998 0.86426	0.94623	0.92881	0.91190	0.88521	AVRG		0.88336		5.87857
99 Indeno(1,2,3-cd)pyrene	0.86167 0.89200	0.81951 0.85284	0.91560	0.93697	0.89463	0.87050	AVRG		0.88047		4.22613
100 Dibenzo(a,h)anthracene	0.70262 0.70136	0.65312 0.67536	0.73887	0.74938	0.71886	0.69043	AVRG		0.70375		4.52478
101 Benzo(ghi)perylene	0.76951 0.75887	0.72320 0.72394	0.76842	0.79488	0.75120	0.73478	AVRG		0.75310		3.31614
102 1,4-Dioxane	++++ 0.37584	0.38064 0.36713	0.44752	++++	0.40899	0.37132	AVRG		0.39191		7.91201
103 Methyl methacrylate	++++ 0.21133	0.21252 0.20754	0.24072	++++	0.22822	0.20576	AVRG		0.21768		6.34524
104 Ethyl methacrylate	++++ 0.81227	0.84860 0.79984	0.92888	++++	0.87952	0.81494	AVRG		0.84734		5.83485
105 2-Picoline	++++ 1.21551	1.26914 1.18973	1.41108	++++	1.32938	1.22430	AVRG		1.27319		6.55905
106 N-Nitrosomethylethylamine	++++ 0.48310	0.48954 0.49822	0.52815	++++	0.52688	0.48521	AVRG		0.50185		4.09489

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 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11o00884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	RSD or R ²
107 Methyl methanesulfonate	++++ 0.541771	0.5956 0.54868	0.60819	++++ 0.59171	0.54435	AVRG			0.56571		4.89756
108 N-Nitrosodiethylamine	++++ 0.505661	0.49236 0.51620	0.56115	++++ 0.54841	0.51163	AVRG			0.52257		5.07366
109 Ethyl Methanesulfonate	++++ 0.68339	0.69662 0.69627	0.75783	++++ 0.73176	0.69461	AVRG			0.71008		4.01952
110 Pentachloroethane	++++ 0.33892	0.34727 0.33294	0.38364	++++ 0.36328	0.34376	AVRG			0.35164		5.32359
111 N-Nitrosopyrrolidine	++++ 0.52438	0.47047 0.53645	0.55080	++++ 0.57104	0.53099	AVRG			0.53069		6.38005
113 N-Nitrosomorpholine	++++ 0.77856	0.78647 0.73318	0.86614	++++ 0.84407	0.78185	AVRG			0.79838		6.06872
114 o-Toluidine	++++ 1.71904	1.81860 1.66426	1.89959	++++ 1.74948	1.67800	AVRG			1.75483		5.12472
115 N-Nitrosopiperidine	++++ 0.14210	0.13766 0.14595	0.15748	++++ 0.15344	0.14226	AVRG			0.14648		5.14928
116 a,a-Dimethylphenethylamine	++++ 1.01997	0.80029 1.03785	0.94842	++++ 1.06314	1.00771	AVRG			0.97956		9.78265

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 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
117 Triethylphosphorothioate	++++ 0.14905	0.16037 0.14465	0.16479	0.15504	0.15337	0.14880	AVRG		0.15373		4.57542
118 2,6-Dichlorophenol	++++ 0.22422	0.20468 0.22580	0.23263	++++	0.23766	0.22401	AVRG		0.22483		5.00559
119 Hexachloropropene	++++ 0.12414	0.10381 0.12658	0.12504	++++	0.13292	0.12106	AVRG		0.12226		8.05865
120 p-Phenylenediamine	++++ 502699	33624 ++++	88337	++++	373649	435480	LINR	0.05779	0.24432		0.99146
121 N-Nitrosodi-n-Butylamine	++++ 0.19489	0.23593 0.20081	0.26606	++++	0.22071	0.19934	AVRG		0.21962		12.55365
122 Safrrole	++++ 0.19411	0.20625 0.18808	0.22186	++++	0.21024	0.19441	AVRG		0.20249		6.21720
123 1,2,4,5-Tetrachlorobenzene	++++ 0.41685	0.48116 0.39717	0.52306	++++	0.47606	0.42111	AVRG		0.45257		10.67643
124 Isosafrole	++++ 0.34025	0.34770 0.34150	0.39668	++++	0.37626	0.34074	AVRG		0.35719		6.64564
125 1,4-Naphthoquinone	++++ 0.27732	0.34497 0.24150	0.42160	++++	0.35348	0.29866	AVRG		0.32292		19.80730

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 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
126 m-Dinitrobenzene	++++ 0.18747	0.15847 0.18814	0.18742	0.18612	0.18572	0.18790	AVRG		0.18303		5.93852
127 Pentachlorobenzene	++++ 0.37175	0.41588 0.36834	0.45795	++++	0.40950	0.37700	AVRG		0.40007		8.68039
128 1-Naphthylamine	++++ 0.90205	0.90640 0.89907	0.93324	++++	0.98278	0.89473	AVRG		0.91971		3.67096
129 2-Naphthylamine	++++ 0.95146	0.98805 0.95585	1.06627	++++	1.05472	0.94173	AVRG		0.99301		5.50422
130 2,3,4,6-Tetrachlorophenol	++++ 0.25765	0.25683 0.25864	0.28243	0.28411	0.28286	0.26211	AVRG		0.26923		4.87199
131 5-Nitro-o-toluidine	++++ 0.29889	0.24789 0.30493	0.29700	++++	0.31702	0.29517	AVRG		0.29348		8.07519
132 Thionazin	++++ 0.17286	0.18215 0.17008	0.18934	0.18458	0.17765	0.17507	AVRG		0.17882		3.83581
134 Sulfotepp	++++ 0.08298	0.09487 0.08156	0.09653	0.08816	0.08409	0.08339	AVRG		0.08737		6.93676
135 Phorate	++++ 0.38082	0.39388 0.37139	0.42291	0.39499	0.37845	0.38277	AVRG		0.38931		4.36879

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
136 1,3,5-Trinitrobenzene	++++ 320207	19101 628654	57859	++++	218083	278044	LINR	0.07963	0.15410		0.99766
137 Phenacetin	++++ 0.28529	0.26534 0.29392	0.30655	++++	0.30841	0.28284	AVRG		0.29039		5.57183
138 Dillate	++++ 0.22249	0.25347 0.22479	0.26145	++++	0.24705	0.22777	AVRG		0.23950		6.93066
139 Dimethoate	++++ 0.23999	0.21311 0.23838	0.24041	0.23880	0.23311	0.24150	AVRG		0.23504		4.27200
140 4-Aminobiphenyl	++++ 0.59227	0.56894 0.56738	0.60878	++++	0.62038	0.59514	AVRG		0.59215		3.57057
141 Pentachloronitrobenzene	++++ 0.06455	0.07076 0.05928	0.07954	++++	0.07421	0.06657	AVRG		0.06915		10.45810
142 Pronamide	++++ 0.24150	0.28872 0.21681	0.30597	++++	0.27393	0.25180	AVRG		0.26312		12.42969
143 Dinoseb	++++ 321885	18372 381979	50470	94649	147341	245187	LINR	0.16155	0.16002		0.99876
144 Disulfoton	++++ 0.31821	0.32529 0.30836	0.35005	0.32816	0.31495	0.31908	AVRG		0.32344		4.14702

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
145 Methyl parathion	++++ 0.20711	0.15841 0.20739	0.19125	0.20074	0.19585	0.20903	AVRG		0.19568		9.04682
146 4-Nitroquinoline-1-oxide	++++ 52976	5752 ++++	15533	++++	37663	45952	WLNIR	-0.16036	0.02268		0.99367
147 Methapyrilene	++++ 0.47666	0.52693 0.42766	0.59638	++++	0.54752	0.49418	AVRG		0.51155		11.49270
148 Isodrin	++++ 0.10170	0.11080 0.09774	0.12360	++++	0.11253	0.10319	AVRG		0.10826		8.56130
149 Aramite	++++ 0.05265	0.04713 0.05254	0.05735	++++	0.05816	0.05336	AVRG		0.05353		7.41862
150 Kepone	++++ 0.07662	0.08140 0.07706	0.09000	++++	0.08070	0.07602	AVRG		0.08030		6.54097
151 p-(Dimethylamino)azobenzene	++++ 0.29473	0.28397 0.30449	0.32857	++++	0.31649	0.29799	AVRG		0.30437		5.26206
152 Chlorobenzilate	++++ 0.25102	0.27951 0.25703	0.31273	++++	0.27964	0.25812	AVRG		0.27301		8.39184
153 3,3'-Dimethylbenzidine	++++ 0.48070	0.54242 0.52917	0.51066	++++	0.51967	0.47142	AVRG		0.50900		5.45384

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 llo00884

Compound	1	10	20	40	50	80	Curve	b	Coeficients m1	m2	%RSD or R^2
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
100	120										
Level 7	Level 8										
154 Famphur	++++	0.333051	0.363441	0.362711	0.359281	0.353291					
	0.356391	0.350461					AVRG		0.354091		2.940811
155 2-Acetylaminofluorene	++++	0.266441	0.367541	++++	0.409111	0.398641					
	0.401841	0.410231					AVRG		0.375641		14.833091
157 7,12Dimethylbenz(a)anthracene	++++	0.451841	0.512911	++++	0.494801	0.444961					
	0.441041	0.444931					AVRG		0.465081		6.617021
158 3-Methylcholanthrene	++++	0.384091	0.441371	++++	0.440461	0.406591					
	0.411251	0.403961					AVRG		0.414621		5.398571
26 Phthalic anhydride	++++	197071	328351	848501	1251371	2010051					
	2503271	2995891					ILINR	0.063151	0.111441		0.995401
173 Carbazole	0.778361	0.708401	0.652641	0.563201	0.557501	0.641881					
	0.662301	0.645981					AVRG		0.651281		11.042351
174 Hexachlorophene	++++	0.036671	0.048981	0.056251	0.055031	0.055021					
	0.054981	++++					AVRG		0.051151		14.756781<-
179 Dibenzo(a,e)pyrene	++++	0.316901	0.385711	0.444391	0.393381	0.415981					
	0.473251	0.425391					AVRG		0.407861		12.241241
185 (2,3-Dibromopropyl)phosphate	++++	++++	++++	++++	++++	++++					
	++++	++++					AVRG		0.000e+001		0.000e+001<-

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/sl23009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11o00884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
184 p-Benzoquinone	++++ 0.09614	0.08319 0.10764	0.07850	0.09643	0.11109	0.10681	AVRG		0.09711		12.90125
191 Parathion	++++ 0.06646	0.05709 0.06628	0.06783	0.06658	0.06575	0.06755	AVRG		0.06538		5.69229
192 Methoxychlor	++++ 0.65201	0.61124 0.63999	0.63372	0.66420	0.66109	0.65810	AVRG		0.64576		2.92207
210 m-Toluidine	++++ 1.27805	1.23398 1.27693	1.25138	1.20040	1.16289	1.20332	AVRG		1.22813		3.49784
211 p-Toluidine	++++ 0.96542	1.00532 0.93679	0.90337	0.92575	0.91289	0.98966	AVRG		0.94846		4.12155
212 Cis Diallate	++++ 0.23817	0.26314 0.24647	0.27884	++++	0.26086	0.24380	AVRG		0.25521		5.94180
213 Trans Diallate	++++ 0.26175	0.29820 0.26445	0.30759	++++	0.29064	0.26796	AVRG		0.28177		6.93066
214 1,4-Dinitrobenzene	++++ 0.20968	0.15660 0.20777	0.19011	0.19353	0.19627	0.20434	AVRG		0.19404		9.31933
215 2-Ethoxyethanol	++++ 0.66934	0.68359 0.70887	0.71679	0.68201	0.77054	0.71038	AVRG		0.70593		4.74462

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/MSD7.i/sl123009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11000884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
216 Methylenebis(2-chloroaniline)	++++ 0.13650	0.11972 0.13903	0.12065 0.11211	0.11211 0.11520	0.11520 0.13010	0.13010 AVRG	AVRG		0.12476		8.42971
226 2,2'-Dichlorobenzil	++++ 0.62542	0.63734 0.60801	0.63123 0.65440	0.65440 0.67544	0.67544 0.63150	0.63150 AVRG	AVRG		0.63762		3.39757
227 4-Chlorothiophenol	++++ 0.26297	0.24560 0.25633	0.25953 0.26979	0.26979 0.26945	0.26945 0.27336	0.27336 AVRG	AVRG		0.26243		3.65482
228 4-Chlorothiophenol	++++ 536892	26223 515518	78945 223135	223135 294798	294798 453447	453447 LINR	LINR	0.15042	0.22616		0.99430
229 bis(p-Chlorophenyl)sulfone	++++ 0.35281	0.38982 0.34493	0.38311 0.37343	0.37343 0.38415	0.38415 0.36286	0.36286 AVRG	AVRG		0.37016		4.61572
230 bis(p-Chlorophenyl)disulfide	++++ 0.17482	0.19885 0.16904	0.18633 0.17482	0.18416 0.20373	0.20373 0.17944	0.17944 AVRG	AVRG		0.18520		6.73762
231 Diphenyl disulfide	++++ 0.22807	0.24593 0.22139	0.23788 0.23441	0.23655 0.25167	0.25167 0.23611	0.23611 AVRG	AVRG		0.23680		4.29157
232 Diphenyl sulfide	++++ 0.73489	0.84751 0.71463	0.82341 0.79052	0.79052 0.79559	0.79559 0.76442	0.76442 AVRG	AVRG		0.78157		6.03058
233 Phenyl sulfone	++++ 0.41114	0.46083 0.40318	0.44916 0.42915	0.42915 0.44117	0.44117 0.42494	0.42494 AVRG	AVRG		0.43137		4.76129

GEL Laboratories LLC
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 Integrator : HP RTE
 Method file : /chem/MSD7.i/sl23009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 llo00884

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
234 Hydroxymethyl phthalimide	++++ 0.16191	0.16428 0.16328	0.18138	0.17640	0.16108	0.16142	AVRG		0.16711		4.93740
235 Phthalic acid	++++ 3699661	18148 370505	44717	118189	201476	279371	LINR	0.24837	0.16163		0.99459
236 Thiophenol	++++ 757274	45508 748183	119221	323757	455006	651180	LINR	0.11158	1.16114		0.99747
237 bis (Chloromethyl) ether	++++ 0.92146	0.97351 0.91854	0.94972	0.94453	0.98428	0.98763	AVRG		0.95424		2.98017
238 Octachlorostyrene	++++ 0.06146	0.06968 0.06073	0.06717	0.06456	0.06527	0.06270	AVRG		0.06451		4.95329
IM 222 Trichlorophenols	++++ 0.294391	0.31442 0.287701	0.33220	0.31989	0.31502	0.30009	AVRG		0.30910		5.06147
IM 223 Tetrachlorophenols	++++ 0.257651	0.25683 0.25864	0.28243	0.28411	0.28286	0.26211	AVRG		0.26923		4.87199
IM 224 Benzo(b,k)fluoranthene	0.95322	1.02000	1.03066	0.99885	0.99044	0.94764	AVRG		0.97334		4.35744
IM 225 TTO Sum Semivolatiles	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
 End Cal Date : 31-DEC-2009 00:58
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 Target Version : 3.50
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 Method file : /chem/MSD7.i/sl23009.b/MSD7-M8270C-AQA-123009.m
 Cal Date : 03-Jan-2010 13:29 11o00884

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
\$ 3 2-Fluorophenol	++++ 1.06727	1.03557 1.08483	1.07293	1.08082	1.07640	1.07876	AVRG		1.07094		1.54843
\$ 5 Phenol-d5	++++ 1.31294	1.30014 1.32724	1.33775	1.36547	1.31860	1.33238	AVRG		1.32779		1.57081
\$ 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	++++ 0.27937	0.33823 0.25723	0.34762	0.32773	0.31465	0.28460	AVRG		0.30706		11.00766
\$ 39 2-Fluorobiphenyl	++++ 0.99692	1.20094 0.98290	1.15268	1.12417	1.08753	1.03056	AVRG		1.08224		7.60592
\$ 60 2,4,6-Tribromophenol	++++ 0.13374	0.12631 0.13459	0.13720	0.14020	0.13807	0.13398	AVRG		0.13487		3.30804
\$ 81 p-Terphenyl-d14	++++ 0.62553	0.73988 0.61623	0.71859	0.68300	0.67093	0.64106	AVRG		0.67075		6.97048

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2009 09:11
End Cal Date : 31-DEC-2009 00:58
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD7.i/sl23009.b/MSD7-M8270C-AQA-123009.m
Cal Date : 03-Jan-2010 13:29 11o00884

Curve	Formula	Units
Averaged	$\text{Amt} = \text{Rsp/ml}$	Response
Linear	$\text{Amt} = b + \text{Rsp/ml}$	Response
Wt Linear	$\text{Amt} = b + \text{Rsp/ml}$	Response

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 30-DEC-2009 13:41
Lab File ID: s713013.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091223-17.1 Quant Type: ISTD
Method: /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 2-Fluorophenol	1.07094	1.09322	1.09322	0.000	2.08082	60.00000	Averaged
5 Phenol-d5	1.32779	1.30530	1.30530	0.000	-1.69389	60.00000	Averaged
20 Nitrobenzene-d5	0.30706	0.32820	0.32820	0.000	6.88603	60.00000	Averaged
39 2-Fluorobiphenyl	1.08224	1.09188	1.09188	0.000	0.89030	60.00000	Averaged
60 2,4,6-Tribromophenol	0.13487	0.13545	0.13545	0.000	0.42749	60.00000	Averaged
81 p-Terphenyl-d14	0.67075	0.70126	0.70126	0.000	4.54957	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.68458	0.67785	0.67785	0.000	-0.98207	60.00000	Averaged
2 Pyridine	0.81333	0.81376	0.81376	0.000	0.05324	60.00000	Averaged
4 Aniline	0.55399	0.53921	0.53921	0.000	-2.66714	60.00000	Averaged
6 Phenol	1.33798	1.30177	1.30177	0.001	-2.70688	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.04232	0.99708	0.99708	0.000	-4.34049	60.00000	Averaged
8 2-Chlorophenol	1.11390	1.06847	1.06847	0.000	-4.07832	60.00000	Averaged
203 n-Decane	1.88408	1.83585	1.83585	0.000	-2.55985	60.00000	Averaged
9 1,3-Dichlorobenzene	1.27677	1.25271	1.25271	0.000	-1.88487	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24268	1.20445	1.20445	0.001	-3.07651	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.14422	1.09936	1.09936	0.000	-3.92058	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.56663	2.53126	2.53126	0.000	-1.37815	60.00000	Averaged
12 Benzyl alcohol	0.71203	0.70385	0.70385	0.000	-1.14795	60.00000	Averaged
15 o-Cresol	0.83996	0.80709	0.80709	0.000	-3.91312	60.00000	Averaged
18 m,p-Cresols	1.12560	1.13147	1.13147	0.000	0.52224	60.00000	Averaged
17 N-Nitrosodipropylamine	0.80134	0.77658	0.77658	0.050	-3.09031	60.00000	Averaged spcc
19 Hexachloroethane	0.51674	0.48350	0.48350	0.000	-6.43348	60.00000	Averaged
21 Nitrobenzene	0.28480	0.30220	0.30220	0.000	6.10761	60.00000	Averaged
22 Isophorone	0.55110	0.54198	0.54198	0.000	-1.65358	60.00000	Averaged
23 2-Nitrophenol	0.14313	0.14068	0.14068	0.001	-1.71529	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.25207	0.25450	0.25450	0.000	0.96384	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.31130	0.30848	0.30848	0.000	-0.90768	60.00000	Averaged
26 2,4-Dichlorophenol	0.22142	0.22183	0.22183	0.001	0.18458	20.00000	Averaged ccc
27 Benzoic acid	44.81373	40.00000	0.14690	0.000	12.03432	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.26794	0.26923	0.26923	0.000	0.47844	60.00000	Averaged
30 Naphthalene	0.80421	0.85242	0.85242	0.000	5.99546	60.00000	Averaged
204 alpha-Terpineol	0.27113	0.25315	0.25315	0.000	-6.63009	60.00000	Averaged
31 4-Chloroaniline	0.32790	0.34216	0.34216	0.000	4.34974	60.00000	Averaged
32 Hexachlorobutadiene	0.14561	0.15097	0.15097	0.001	3.68378	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23185	0.22902	0.22902	0.001	-1.22118	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.54489	0.61035	0.61035	0.000	12.01307	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 30-DEC-2009 13:41
Lab File ID: s713013.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091223-17.1 Quant Type: ISTD
Method: /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.52781	0.56358	0.56358	0.000	6.77700	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.22989	0.19968	0.19968	0.050	-13.14117	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.51293	0.50835	0.50835	0.000	-0.89246	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30263	0.29669	0.29669	0.001	-1.96031	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.31558	0.31564	0.31564	0.000	0.02141	60.00000	Averaged
40 2-Chloronaphthalene	0.97053	0.94996	0.94996	0.000	-2.11866	60.00000	Averaged
42 o-Nitroaniline	0.31209	0.30784	0.30784	0.000	-1.36271	60.00000	Averaged
41 m-Nitroaniline	0.19808	0.20486	0.20486	0.000	3.42477	60.00000	Averaged
43 Dimethylphthalate	1.11931	1.13372	1.13372	0.000	1.28732	60.00000	Averaged
44 2,6-Dinitrotoluene	0.26333	0.26211	0.26211	0.000	-0.46221	60.00000	Averaged
50 2,4-Dinitrotoluene	0.33898	0.34657	0.34657	0.000	2.24022	60.00000	Averaged
45 Acenaphthylene	1.51145	1.61014	1.61014	0.000	6.52934	60.00000	Averaged
47 Acenaphthene	0.95605	0.99920	0.99920	0.001	4.51314	20.00000	Averaged ccc
48 2,4-Dinitrophenol	41.29606	40.00000	0.09797	0.050	3.24015	60.00000	Linear spcc
49 Dibenzofuran	1.32002	1.30267	1.30267	0.000	-1.31439	60.00000	Averaged
51 Diethylphthalate	1.12441	1.12731	1.12731	0.000	0.25788	60.00000	Averaged
52 4-Nitrophenol	41.33889	40.00000	0.18783	0.050	3.34723	60.00000	Linear spcc
53 Fluorene	1.11179	1.17257	1.17257	0.000	5.46697	60.00000	Averaged
54 4-Chlorophenylphenylether	0.54913	0.53636	0.53636	0.000	-2.32469	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	48.38458	40.00000	0.11113	0.000	20.96146	60.00000	Linear
56 p-Nitroaniline	38.56130	40.00000	0.16185	0.000	-3.59676	60.00000	Linear
133 Diphenylamine	0.48690	0.44704	0.44704	0.001	-8.18495	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.65474	0.63838	0.63838	0.000	-2.49802	60.00000	Averaged
61 4-Bromophenylphenylether	0.17937	0.17156	0.17156	0.000	-4.35367	60.00000	Averaged
63 Hexachlorobenzene	0.17666	0.16674	0.16674	0.000	-5.61443	60.00000	Averaged
65 Pentachlorophenol	0.09488	0.09447	0.09447	0.001	-0.42766	20.00000	Averaged ccc
206 n-Octadecane	0.54176	0.50586	0.50586	0.000	-6.62742	60.00000	Averaged
68 Phenanthrene	0.89268	0.91927	0.91927	0.000	2.97882	60.00000	Averaged
69 Anthracene	0.89878	0.95668	0.95668	0.000	6.44157	60.00000	Averaged
72 Di-n-butylphthalate	1.10215	1.09560	1.09560	0.000	-0.59406	60.00000	Averaged
76 Fluoranthene	0.99494	1.07478	1.07478	0.001	8.02501	20.00000	Averaged ccc
79 Pyrene	1.14939	1.19444	1.19444	0.000	3.91943	60.00000	Averaged
85 Butylbenzylphthalate	0.53712	0.51957	0.51957	0.000	-3.26828	60.00000	Averaged
89 Benzo(a)anthracene	0.96577	1.01600	1.01600	0.000	5.20053	60.00000	Averaged
92 Chrysene	0.88866	0.93308	0.93308	0.000	4.99849	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.70898	0.70578	0.70578	0.000	-0.45182	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 30-DEC-2009 13:41
Lab File ID: s713013.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091223-17.1 Quant Type: ISTD
Method: /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.21924	1.18535	1.18535	0.001	-2.78033	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	0.99301	1.02988	1.02988	0.000	3.71333	60.00000	Averaged
96 Benzo(k)fluoranthene	0.95367	1.06244	1.06244	0.000	11.40580	60.00000	Averaged
97 Benzo(a)pyrene	0.88336	0.98777	0.98777	0.001	11.81999	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.88047	0.97285	0.97285	0.000	10.49246	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.70375	0.77528	0.77528	0.000	10.16485	60.00000	Averaged
101 Benzo(ghi)perylene	0.75310	0.83414	0.83414	0.000	10.76109	60.00000	Averaged
126 m-Dinitrobenzene	0.18303	0.18554	0.18554	0.000	1.36784	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.26923	0.26466	0.26466	0.000	-1.69739	60.00000	Averaged
143 Dinoseb	39.14872	40.00000	0.13076	0.000	-2.12819	60.00000	Linear
173 Carbazole	0.65128	0.56901	0.56901	0.000	-12.63164	60.00000	Averaged
184 p-Benzoquinone	0.09711	0.08580	0.08580	0.000	-11.65017	60.00000	Averaged
192 Methoxychlor	0.64576	0.63229	0.63229	0.000	-2.08653	60.00000	Averaged
211 p-Toluidine	0.94846	0.89438	0.89438	0.000	-5.70124	60.00000	Averaged
210 m-Toluidine	1.22813	0.93881	0.93881	0.000	-23.55803	60.00000	Averaged
215 2-Ethoxyethanol	0.70593	0.77440	0.77440	0.000	9.69890	60.00000	Averaged
179 Dibenzo(a,e)pyrene	0.40786	0.31792	0.31792	0.000	-22.05038	60.00000	Averaged
26 Phthalic anhydride	52.28939	40.00000	0.13864	0.000	30.72348	60.00000	Linear
214 1,4-Dinitrobenzene	0.19404	0.20084	0.20084	0.000	3.50427	60.00000	Averaged
216 Methylenebis(2-chloroanilin	0.12476	0.12221	0.12221	0.000	-2.04422	60.00000	Averaged
M 222 Trichlorophenols	0.30910	0.30617	0.30617	0.000	-0.94869	60.00000	Averaged
M 223 Tetrachlorophenols	0.26923	0.26466	0.26466	0.000	-1.69739	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	0.97334	1.04616	1.04616	0.000	7.48183	60.00000	Averaged

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Data file : /chem/MSD7.i/s123009.b/s713013.d
Lab Smp Id: WBN091223-17.1 Client Smp ID: MEGAICV
Inj Date : 30-DEC-2009 13:41
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN091223-17.1|40 PPM|1|SVMF|1|MEGAICV
Misc Info : |MSD8270|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 07:59 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.947	3.947	(1.000)	236494	40.0000	
* 29 Naphthalene-d8	136	4.809	4.809	(1.000)	934992	40.0000	
* 46 Acenaphthene-d10	164	6.061	6.061	(1.000)	502415	40.0000	
* 67 Phenanthrene-d10	188	7.226	7.226	(1.000)	908680	40.0000	
* 91 Chrysene-d12	240	9.629	9.629	(1.000)	845072	40.0000	
* 98 Perylene-d12	264	11.280	11.280	(1.000)	827825	40.0000	
\$ 3 2-Fluorophenol	112	3.128	3.128	(0.793)	258541	40.0000	40.8
\$ 5 Phenol-d5	99	3.653	3.653	(0.926)	308695	40.0000	39.3
\$ 20 Nitrobenzene-d5	82	4.303	4.303	(0.895)	306868	40.0000	42.8
\$ 39 2-Fluorobiphenyl	172	5.545	5.545	(0.915)	548576	40.0000	40.4
\$ 60 2,4,6-Tribromophenol	329	6.653	6.653	(1.098)	68050	40.0000	40.2
\$ 81 p-Terphenyl-d14	244	8.598	8.598	(0.893)	592617	40.0000	41.8
1 N-Methyl-N-nitrosomethylamine	74	2.430	2.430	(0.616)	160308	40.0000	39.6
2 Pyridine	79	2.464	2.464	(0.624)	192450	40.0000	40.0
4 Aniline	66	3.725	3.725	(0.944)	127521	40.0000	38.9
6 Phenol	94	3.663	3.663	(0.928)	307860	40.0000	38.9
7 bis(2-Chloroethyl) ether	63	3.745	3.745	(0.949)	235803	40.0000	38.3
8 2-Chlorophenol	128	3.807	3.807	(0.965)	252687	40.0000	38.4
203 n-Decane	43	3.793	3.793	(0.961)	434167	40.0000	39.0
9 1,3-Dichlorobenzene	146	3.913	3.913	(0.991)	296258	40.0000	39.2
11 1,4-Dichlorobenzene	146	3.956	3.956	(1.002)	284845	40.0000	38.8
13 1,2-Dichlorobenzene	146	4.062	4.062	(1.029)	259991	40.0000	38.4
14 bis(2-Chloroisopropyl)ether	45	4.086	4.086	(1.035)	598628	40.0000	39.4
12 Benzyl alcohol	108	4.009	4.009	(1.016)	166457	40.0000	39.5
15 o-Cresol	107	4.058	4.058	(1.028)	190872	40.0000	38.4
18 m,p-Cresols	107	4.159	4.159	(1.054)	267587	40.0000	40.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.183	4.183	(1.060)	183656	40.0000	38.8
19 Hexachloroethane	117	4.289	4.289	(1.087)	114344	40.0000	37.4
21 Nitrobenzene	77	4.318	4.318	(0.898)	282550	40.0000	42.4
22 Isophorone	82	4.472	4.472	(0.930)	506750	40.0000	39.3
23 2-Nitrophenol	139	4.529	4.529	(0.942)	131531	40.0000	39.3
24 2,4-Dimethylphenol	122	4.520	4.520	(0.940)	237958	40.0000	40.4
25 bis(2-Chloroethoxy)methane	93	4.592	4.592	(0.955)	288424	40.0000	39.6
26 2,4-Dichlorophenol	162	4.688	4.688	(0.975)	207408	40.0000	40.1
27 Benzoic acid	105	4.573	4.573	(0.951)	137349	40.0000	44.8
28 1,2,4-Trichlorobenzene	180	4.761	4.761	(0.990)	251724	40.0000	40.2
30 Naphthalene	128	4.828	4.828	(1.004)	797007	40.0000	42.4
204 alpha-Terpineol	59	4.799	4.799	(0.998)	236697	40.0000	37.3
31 4-Chloroaniline	127	4.838	4.838	(1.006)	319921	40.0000	41.7
32 Hexachlorobutadiene	225	4.891	4.891	(1.017)	141160	40.0000	41.5
33 4-Chloro-3-methylphenol	107	5.146	5.146	(1.070)	214129	40.0000	39.5
34 2-Methylnaphthalene	142	5.305	5.305	(1.103)	570675	40.0000	44.8
35 1-Methylnaphthalene	142	5.377	5.377	(1.118)	526939	40.0000	42.7
36 Hexachlorocyclopentadiene	237	5.406	5.406	(0.892)	100322	40.0000	34.7
205 2,3-Dichloroaniline	161	5.497	5.497	(0.907)	255404	40.0000	39.6
37 2,4,6-Trichlorophenol	196	5.488	5.488	(0.905)	149063	40.0000	39.2
38 2,4,5-Trichlorophenol	196	5.517	5.517	(0.910)	158584	40.0000	40.0
40 2-Chloronaphthalene	162	5.656	5.656	(0.933)	477276	40.0000	39.2
42 o-Nitroaniline	65	5.709	5.709	(0.942)	154662	40.0000	39.4
41 m-Nitroaniline	138	6.003	6.003	(0.990)	102927	40.0000	41.4
43 Dimethylphthalate	163	5.820	5.820	(0.960)	569598	40.0000	40.5
44 2,6-Dinitrotoluene	165	5.873	5.873	(0.969)	131690	40.0000	39.8
50 2,4-Dinitrotoluene	165	6.167	6.167	(1.017)	174122	40.0000	40.9
45 Acenaphthylene	152	5.960	5.960	(0.983)	808958	40.0000	42.6
47 Acenaphthene	154	6.085	6.085	(1.004)	502011	40.0000	41.8
48 2,4-Dinitrophenol	184	6.075	6.075	(1.002)	49224	40.0000	41.3
49 Dibenzofuran	168	6.210	6.210	(1.025)	654479	40.0000	39.5
51 Diethylphthalate	149	6.326	6.326	(1.044)	566375	40.0000	40.1
52 4-Nitrophenol	139	6.085	6.085	(1.004)	94371	40.0000	41.3
53 Fluorene	166	6.470	6.470	(1.068)	589118	40.0000	42.2
54 4-Chlorophenylphenylether	204	6.446	6.446	(1.064)	269477	40.0000	39.1
55 2-Methyl-4,6-dinitrophenol	198	6.480	6.480	(0.897)	100986	40.0000	48.4
56 p-Nitroaniline	138	6.460	6.460	(1.066)	81314	40.0000	38.6
133 Diphenylamine	169	6.533	6.533	(0.904)	406220	40.0000	36.7
58 1,2-Diphenylhydrazine	77	6.566	6.566	(0.909)	580086	40.0000	39.0
61 4-Bromophenylphenylether	248	6.831	6.831	(0.945)	155892	40.0000	38.2
63 Hexachlorobenzene	284	6.903	6.903	(0.955)	151517	40.0000	37.8
65 Pentachlorophenol	266	7.048	7.048	(0.975)	85843	40.0000	39.8
206 n-Octadecane	57	7.038	7.038	(0.974)	459664	40.0000	37.3
68 Phenanthrene	178	7.245	7.245	(1.003)	835320	40.0000	41.2
69 Anthracene	178	7.289	7.289	(1.009)	869314	40.0000	42.6
72 Di-n-butylphthalate	149	7.645	7.645	(1.058)	995548	40.0000	39.8
76 Fluoranthene	202	8.281	8.281	(1.146)	976634	40.0000	43.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	8.497	8.497	(0.882)	1009390	40.0000	41.6
85 Butylbenzylphthalate	149	9.027	9.027	(0.937)	439073	40.0000	38.7
89 Benzo(a)anthracene	228	9.614	9.614	(0.998)	858593	40.0000	42.1
92 Chrysene	228	9.653	9.653	(1.002)	788516	40.0000	42.0
93 bis(2-Ethylhexyl)phthalate	149	9.547	9.547	(0.991)	596434	40.0000	39.8
94 Di-n-octylphthalate	149	10.192	10.192	(0.904)	981259	40.0000	38.9
95 Benzo(b)fluoranthene	252	10.770	10.770	(0.955)	852563	40.0000	41.5
96 Benzo(k)fluoranthene	252	10.804	10.804	(0.958)	879514	40.0000	44.6
97 Benzo(a)pyrene	252	11.203	11.203	(0.993)	817703	40.0000	44.7
99 Indeno(1,2,3-cd)pyrene	276	13.014	13.014	(1.154)	805349	40.0000	44.2
100 Dibenzo(a,h)anthracene	278	13.033	13.033	(1.155)	641800	40.0000	44.1
101 Benzo(ghi)perylene	276	13.549	13.549	(1.201)	690523	40.0000	44.3
126 m-Dinitrobenzene	168	5.858	5.858	(0.967)	93217	40.0000	40.5
130 2,3,4,6-Tetrachlorophenol	232	6.287	6.287	(1.037)	132971	40.0000	39.3
143 Dinoseb	211	7.168	7.168	(0.992)	118822	40.0000	39.1
173 Carbazole	167	7.399	7.399	(1.024)	517051	40.0000	34.9
184 p-Benzoquinone	54	3.427	3.427	(0.868)	20291	40.0000	35.3
192 Methoxychlor	227	9.499	9.499	(0.986)	534330	40.0000	39.2
211 p-Toluidine	106	4.216	4.216	(1.068)	211516	40.0000	37.7
210 m-Toluidine	106	4.241	4.241	(1.074)	222023	40.0000	30.6
215 2-Ethoxyethanol	59	2.271	2.271	(0.575)	183141	40.0000	43.9
179 Dibenzo(a,e)pyrene	302	17.564	17.564	(1.557)	263185	40.0000	31.2
26 Phthalic anhydride	104	5.329	5.329	(1.108)	129631	40.0000	52.3
214 1,4-Dinitrobenzene	75	5.801	5.801	(0.957)	100906	40.0000	41.4
216 Methylenebis(2-chloroaniline)	231	9.557	9.557	(0.992)	103275	40.0000	39.2
M 222 Trichlorophenols	196				307647	80.0000	79.2
M 223 Tetrachlorophenols	232				132971	40.0000	39.3
M 224 Benzo(b,k)fluoranthene	252				1732077	80.0000	86.0

Data File: /chem/MSD7.1/s123009.b/s713013.d

Date: 30-DEC-2009 13:41

Client ID: HECAICV

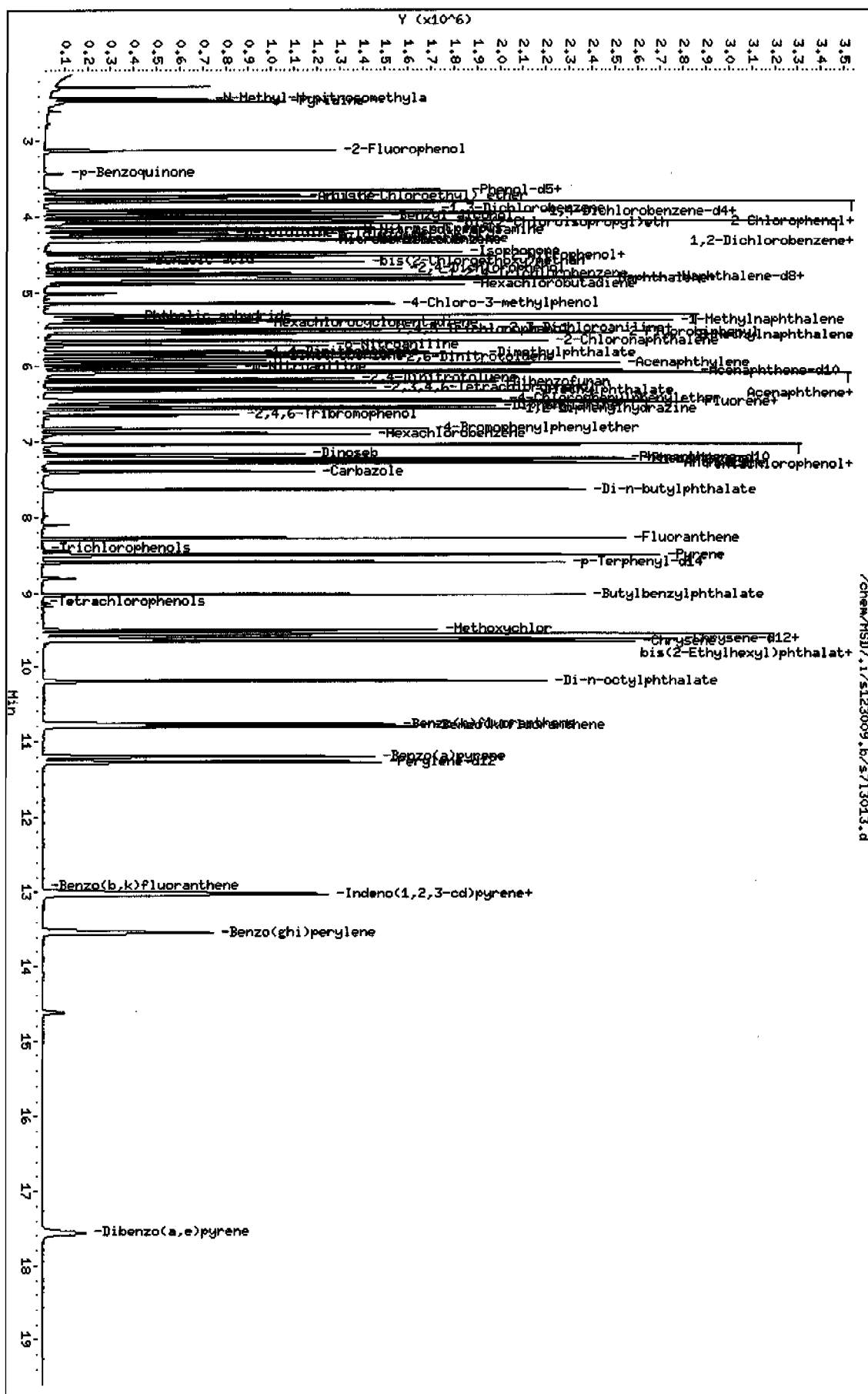
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Column phase: J&M DB-SMS

Instrument: MSD7.1

Operator: JMB

Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 30-DEC-2009 19:15
Lab File ID: s713028.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091201-08.1 Quant Type: ISTD
Method: /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.91426	0.79076	0.79076	0.000	-13.50871	60.00000	Averaged
16 Acetophenone	1.25268	1.24263	1.24263	0.000	-0.80255	60.00000	Averaged
189 Caprolactam	0.08525	0.09265	0.09265	0.000	8.69035	60.00000	Averaged
208 1,1'-Biphenyl	1.22037	1.31923	1.31923	0.000	8.10041	60.00000	Averaged
207 Atrazine	0.04386	0.04913	0.04913	0.000	12.01958	60.00000	Averaged
77 Benzidine	34.00994	40.00000	0.24487	0.000	-14.97514	60.00000	Linear
90 3,3'-Dichlorobenzidine	0.32314	0.33513	0.33513	0.000	3.71182	60.00000	Averaged
102 1,4-Dioxane	0.39191	0.50218	0.50218	0.000	28.13874	60.00000	Averaged
103 Methyl methacrylate	0.21768	0.26252	0.26252	0.000	20.59718	60.00000	Averaged
104 Ethyl methacrylate	0.84734	1.04394	1.04394	0.000	23.20171	60.00000	Averaged
105 2-Picoline	1.27319	1.23406	1.23406	0.000	-3.07331	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.50185	0.49605	0.49605	0.000	-1.15697	60.00000	Averaged
107 Methyl methanesulfonate	0.56571	0.61824	0.61824	0.000	9.28606	60.00000	Averaged
108 N-Nitrosodiethylamine	0.52257	0.50516	0.50516	0.000	-3.33017	60.00000	Averaged
109 Ethyl Methanesulfonate	0.71008	0.86521	0.86521	0.000	21.84703	60.00000	Averaged
110 Pentachloroethane	0.35164	0.48903	0.48903	0.000	39.07348	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.53069	0.49855	0.49855	0.000	-6.05621	60.00000	Averaged
113 N-Nitrosomorpholine	0.79838	0.78802	0.78802	0.000	-1.29808	60.00000	Averaged
114 o-Toluidine	1.75483	1.70295	1.70295	0.000	-2.95609	60.00000	Averaged
115 N-Nitrosopiperidine	0.14648	0.14337	0.14337	0.000	-2.12437	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.97956	0.98156	0.98156	0.000	0.20425	60.00000	Averaged
118 2,6-Dichlorophenol	0.22483	0.23550	0.23550	0.000	4.74464	60.00000	Averaged
119 Hexachloropropene	0.12226	0.19553	0.19553	0.000	59.93551	60.00000	Averaged
120 p-Phenylenediamine	42.91031	40.00000	0.24797	0.000	7.27578	60.00000	Linear
121 N-Nitrosodi-n-butylamine	0.21962	0.21795	0.21795	0.000	-0.76163	60.00000	Averaged
122 Safrole	0.20249	0.23886	0.23886	0.000	17.96036	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.45257	0.51729	0.51729	0.000	14.30098	60.00000	Averaged
124 Isosafrole	0.35719	0.48749	0.48749	0.000	36.48020	60.00000	Averaged
125 1,4-Naphthoquinone	0.32292	0.37648	0.37648	0.000	16.58716	60.00000	Averaged
127 Pentachlorobenzene	0.40007	0.43417	0.43417	0.000	8.52325	60.00000	Averaged
128 1-Naphthylamine	0.91971	0.94322	0.94322	0.000	2.55586	60.00000	Averaged
129 2-Naphthylamine	0.99301	1.01245	1.01245	0.000	1.95773	60.00000	Averaged
131 5-Nitro-o-toluidine	0.29348	0.30138	0.30138	0.000	2.69018	60.00000	Averaged
136 1,3,5-Trinitrobenzene	51.86948	40.00000	0.18756	0.000	29.67371	60.00000	Linear
137 Phenacetin	0.29039	0.31898	0.31898	0.000	9.84430	60.00000	Averaged
138 Diallate	0.23950	0.23072	0.23072	0.000	-3.66605	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 30-DEC-2009 19:15
Lab File ID: s713028.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091201-08.1 Quant Type: ISTD
Method: /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	
			RRF40	RRF	%D / %DRIFT	%D / %DRIFT
212 Cis Diallate	0.25521	0.32808	0.32808	0.000	28.55083	60.00000
213 Trans Diallate	0.28177	0.27144	0.27144	0.000	-3.66605	60.00000
140 4-Aminobiphenyl	0.59215	0.55760	0.55760	0.000	-5.83484	60.00000
141 Pentachloronitrobenzene	0.06915	0.07621	0.07621	0.000	10.20730	60.00000
142 Pronamide	0.26312	0.29550	0.29550	0.000	12.30482	60.00000
146 4-Nitroquinoline-1-oxide	55.64163	40.00000	0.03519	0.000	39.10407	60.00000
147 Methapyrilene	0.51155	0.57738	0.57738	0.000	12.86764	60.00000
148 Isodrin	0.10826	0.10621	0.10621	0.000	-1.89606	60.00000
149 Aramite	0.05353	0.04998	0.04998	0.000	-6.63568	60.00000
150 Kepone	0.08030	0.07913	0.07913	0.000	-1.46071	60.00000
151 p-(Dimethylamino)azobenzene	0.30437	0.29194	0.29194	0.000	-4.08427	60.00000
152 Chlorobenzilate	0.27301	0.27963	0.27963	0.000	2.42482	60.00000
153 3,3'-Dimethylbenzidine	0.50900	0.47575	0.47575	0.000	-6.53358	60.00000
155 2-Acetylaminofluorene	0.37564	0.37637	0.37637	0.000	0.19487	60.00000
157 7,12Dimethylbenz(a)anthracene	0.46508	0.45341	0.45341	0.000	-2.50797	60.00000
158 3-Methylcholanthrene	0.41462	0.43649	0.43649	0.000	5.27515	60.00000

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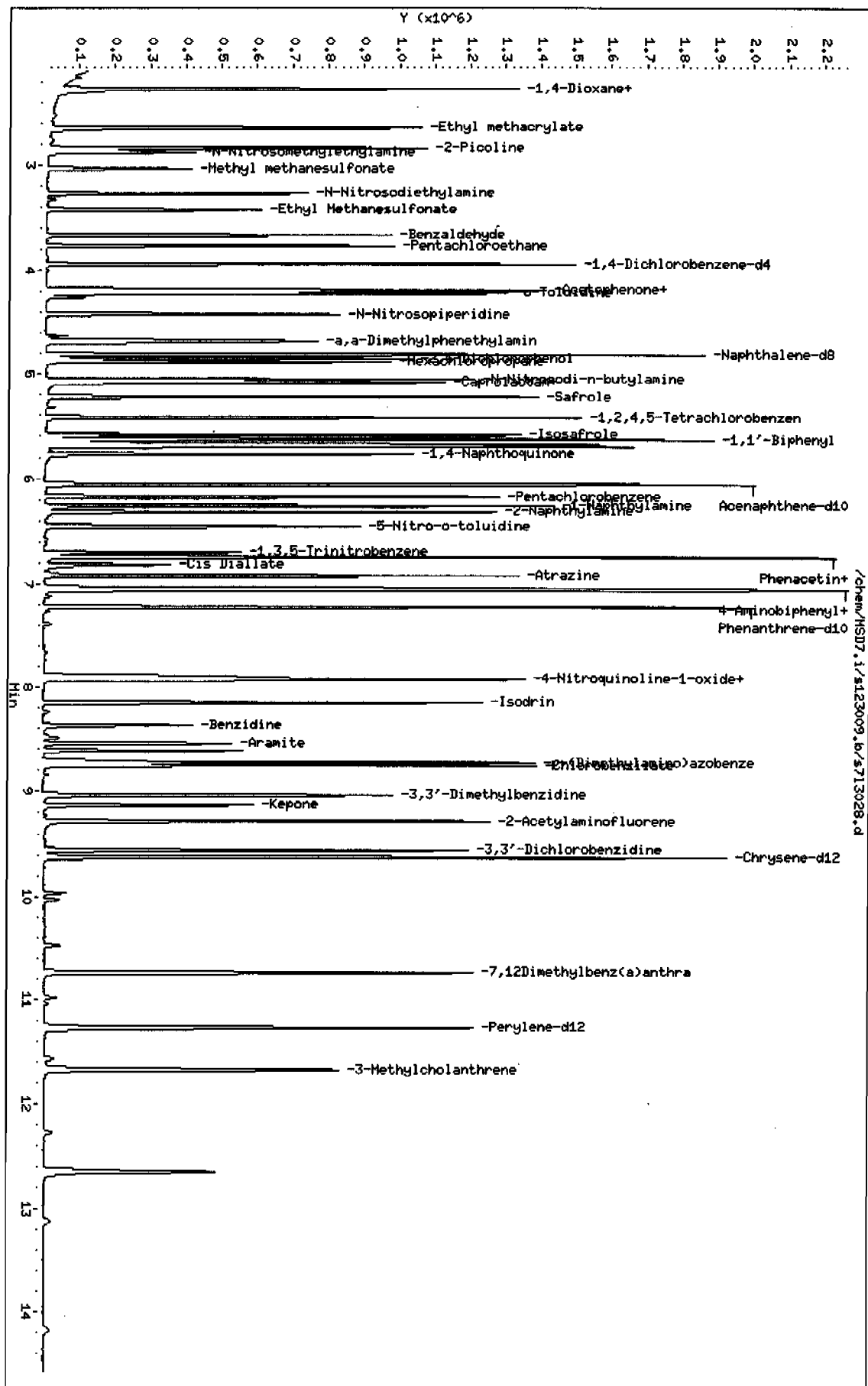
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Inj Date : 30-DEC-2009 19:15
Operator : JMB3 Inst ID: MSD7.i
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Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s123009.b/MSD7-M8270C-AQA-123009.m
Meth Date : 03-Jan-2010 13:23 hnm Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: hpcpl1

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.942	3.942	(1.000)	238952		40.0000	
* 29 Naphthalene-d8	136	4.809	4.809	(1.000)	872047		40.0000	
* 46 Acenaphthene-d10	164	6.056	6.056	(1.000)	492952		40.0000	
* 67 Phenanthrene-d10	188	7.226	7.226	(1.000)	875080		40.0000	
* 91 Chrysene-d12	240	9.624	9.624	(1.000)	885449		40.0000	
* 98 Perylene-d12	264	11.276	11.276	(1.000)	780482		40.0000	
209 Benzaldehyde	77	3.667	3.667	(0.930)	188953		40.0000	34.6
16 Acetophenone	105	4.192	4.192	(1.064)	296929		40.0000	39.7
189 Caprolactam	113	5.074	5.074	(1.055)	80799		40.0000	43.5
208 1,1'-Biphenyl	154	5.627	5.627	(0.929)	650317		40.0000	43.2
207 Atrazine	173	6.923	6.923	(0.958)	42996		40.0000	44.8
77 Benzidine	184	8.372	8.372	(0.870)	216818		40.0000	34.0
90 3,3'-Dichlorobenzidine	252	9.557	9.557	(0.993)	296743		40.0000	41.5
102 1,4-Dioxane	88	2.276	2.276	(0.577)	119998		40.0000	51.2
103 Methyl methacrylate	100	2.271	2.271	(0.576)	62729		40.0000	48.2
104 Ethyl methacrylate	69	2.647	2.647	(0.671)	249451		40.0000	49.3
105 2-Picoline	93	2.839	2.839	(0.720)	294881		40.0000	38.8
106 N-Nitrosomethylethylamine	88	2.883	2.883	(0.731)	118531		40.0000	39.5
107 Methyl methanesulfonate	80	3.037	3.037	(0.770)	147730		40.0000	43.7
108 N-Nitrosodiethylamine	102	3.273	3.273	(0.830)	120710		40.0000	38.7
109 Ethyl Methanesulfonate	79	3.427	3.427	(0.869)	206744		40.0000	48.7
110 Pentachloroethane	167	3.769	3.769	(0.956)	116855		40.0000	55.6
111 N-Nitrosopyrrolidine	100	4.178	4.178	(1.060)	119129		40.0000	37.6
113 N-Nitrosomorpholine	56	4.197	4.197	(1.065)	188298		40.0000	39.5
114 o-Toluidine	106	4.216	4.216	(1.070)	406924		40.0000	38.8
115 N-Nitrosopiperidine	114	4.419	4.419	(0.919)	125026		40.0000	39.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
116 a,a-Dimethylphenethylamine	58	4.679	4.679	(0.973)	855969	40.0000	40.1
118 2,6-Dichlorophenol	162	4.847	4.847	(1.008)	205369	40.0000	41.9
119 Hexachloropropene	213	4.881	4.881	(1.015)	170513	40.0000	64.0
120 p-Phenylenediamine	108	5.083	5.083	(1.057)	216243	40.0000	42.9
121 N-Nitrosodi-n-butylamine	84	5.049	5.049	(1.050)	190063	40.0000	39.7
122 Safrole	162	5.218	5.218	(1.085)	208297	40.0000	47.2
123 1,2,4,5-Tetrachlorobenzene	216	5.420	5.420	(0.895)	254999	40.0000	45.7
124 Isosafrole	162	5.584	5.584	(0.922)	240310	40.0000	54.6
125 1,4-Naphthoquinone	158	5.772	5.772	(0.953)	185589	40.0000	46.6
127 Pentachlorobenzene	250	6.176	6.176	(1.020)	214024	40.0000	43.4
128 1-Naphthylamine	143	6.263	6.263	(1.034)	464962	40.0000	41.0
129 2-Naphthylamine	143	6.321	6.321	(1.044)	499091	40.0000	40.8
131 5-Nitro-o-toluidine	152	6.455	6.455	(1.066)	148565	40.0000	41.1
136 1,3,5-Trinitrobenzene	75	6.701	6.701	(0.927)	164130	40.0000	51.9
137 Phenacetin	108	6.744	6.744	(0.933)	279133	40.0000	43.9
138 Diallate	86	6.740	6.740	(0.933)	201900	40.0000	38.5
212 Cis Diallate	86	6.817	6.817	(0.943)	43064	6.00000	7.7
213 Trans Diallate	86	6.740	6.740	(0.933)	201900	34.0000	32.8
140 4-Aminobiphenyl	169	7.043	7.043	(0.975)	487942	40.0000	37.7
141 Pentachloronitrobenzene	237	7.062	7.062	(0.977)	66691	40.0000	44.1
142 Pronamide	173	7.053	7.053	(0.976)	258586	40.0000	44.9
146 4-Nitroquinoline-1-oxide	101	7.890	7.890	(1.092)	30794	40.0000	55.6
147 Methapyrilene	58	7.924	7.924	(1.097)	505253	40.0000	45.1
148 Isodrin	193	8.150	8.150	(1.128)	92941	40.0000	39.2
149 Aramite	185	8.545	8.545	(1.183)	43735	40.0000	37.3
150 Kepone	272	9.133	9.133	(1.264)	69242	40.0000	39.4
151 p-(Dimethylamino)azobenzene	120	8.723	8.723	(0.906)	258498	40.0000	38.4
152 Chlorobenzilate	251	8.752	8.752	(0.909)	247596	40.0000	41.0
153 3,3'-Dimethylbenzidine	212	9.036	9.036	(0.939)	421251	40.0000	37.4
155 2-Acetylaminofluorene	181	9.282	9.282	(0.964)	333254	40.0000	40.1
157 7,12Dimethylbenz(a)anthracene	256	10.741	10.741	(0.953)	353881	40.0000	39.0
158 3-Methylcholanthrene	268	11.675	11.675	(1.035)	340673	40.0000	42.1

Data File: /chem/MSD7.1/s123009.b/s713028.d
 Date: 30-DEC-2009 19:15
 Client ID: APICV
 Sample Info: IABN091201-08.11CV11.SMF11.APICV
 Column phase: J&W DB-SHS

Instrument: MSD7.1
 Operator: JHB3
 Column diameter: 0.20



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 02-JAN-2010 15:54
Lab File ID: s7a0205.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF %D / %DRIFT	%D / %DRIFT	
\$ 3 2-Fluorophenol	1.07094	0.81827	0.81827 0.000	-23.59333	60.00000	Averaged
\$ 5 Phenol-d5	1.32779	1.08021	1.08021 0.000	-18.64618	60.00000	Averaged
\$ 20 Nitrobenzene-d5	0.30706	0.29921	0.29921 0.000	-2.55489	60.00000	Averaged
\$ 39 2-Fluorobiphenyl	1.08224	1.03680	1.03680 0.000	-4.19934	60.00000	Averaged
\$ 60 2,4,6-Tribromophenol	0.13487	0.14376	0.14376 0.000	6.59239	60.00000	Averaged
\$ 81 p-Terphenyl-d14	0.67075	0.63359	0.63359 0.000	-5.53938	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.68458	0.59344	0.59344 0.000	-13.31315	60.00000	Averaged
2 Pyridine	0.81333	0.71608	0.71608 0.000	-11.95648	60.00000	Averaged
4 Aniline	0.55399	0.42411	0.42411 0.000	-23.44510	60.00000	Averaged
6 Phenol	1.33798	1.09064	1.09064 0.001	-18.48668	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.04232	0.86175	0.86175 0.000	-17.32396	60.00000	Averaged
8 2-Chlorophenol	1.11390	0.91682	0.91682 0.000	-17.69238	60.00000	Averaged
203 n-Decane	1.88408	1.47032	1.47032 0.000	-21.96071	60.00000	Averaged
9 1,3-Dichlorobenzene	1.27677	1.19200	1.19200 0.000	-6.63984	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24268	1.17472	1.17472 0.001	-5.46874	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.14422	1.10950	1.10950 0.000	-3.03419	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.56663	1.76520	1.76520 0.000	-31.22514	60.00000	Averaged
12 Benzyl alcohol	0.71203	0.53578	0.53578 0.000	-24.75303	60.00000	Averaged
15 o-Cresol	0.83996	0.71974	0.71974 0.000	-14.31271	60.00000	Averaged
18 m,p-Cresols	1.12560	0.84943	0.84943 0.000	-24.53501	60.00000	Averaged
17 N-Nitrosodipropylamine	0.80134	0.68942	0.68942 0.050	-13.96711	60.00000	Averaged spcc
19 Hexachloroethane	0.51674	0.46904	0.46904 0.000	-9.23143	60.00000	Averaged
21 Nitrobenzene	0.28480	0.26658	0.26658 0.000	-6.39876	60.00000	Averaged
22 Isophorone	0.55110	0.55401	0.55401 0.000	0.52867	60.00000	Averaged
23 2-Nitrophenol	0.14313	0.11964	0.11964 0.001	-16.41007	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.25207	0.23630	0.23630 0.000	-6.25823	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.31130	0.29405	0.29405 0.000	-5.54219	60.00000	Averaged
26 2,4-Dichlorophenol	0.22142	0.19934	0.19934 0.001	-9.97033	20.00000	Averaged ccc
27 Benzoic acid	21.76429	40.00000	0.04827 0.000	-45.58927	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.26794	0.26306	0.26306 0.000	-1.82288	60.00000	Averaged
30 Naphthalene	0.80421	0.73660	0.73660 0.000	-8.40637	60.00000	Averaged
204 alpha-Terpineol	0.27113	0.25190	0.25190 0.000	-7.09208	60.00000	Averaged
31 4-Chloroaniline	0.32790	0.22586	0.22586 0.000	-31.11884	60.00000	Averaged
32 Hexachlorobutadiene	0.14561	0.15148	0.15148 0.001	4.03043	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23185	0.21506	0.21506 0.001	-7.24212	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.54489	0.54220	0.54220 0.000	-0.49468	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 02-JAN-2010 15:54
Lab File ID: s7a0205.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRE / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.52781	0.54280	0.54280	0.000	2.84144	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.22989	0.25028	0.25028	0.050	8.86830	60.00000	Averaged spcc
205 2,3-Dichloroaniline	0.51293	0.48470	0.48470	0.000	-5.50443	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30263	0.27895	0.27895	0.001	-7.82491	20.00000	Averaged ccc
38 2,4,5-Trichlorophenol	0.31558	0.28348	0.28348	0.000	-10.17147	60.00000	Averaged
40 2-Chloronaphthalene	0.97053	0.84611	0.84611	0.000	-12.81893	60.00000	Averaged
42 o-Nitroaniline	0.31209	0.26644	0.26644	0.000	-14.62642	60.00000	Averaged
41 m-Nitroaniline	0.19808	0.08484	0.08484	0.000	-57.17103	60.00000	Averaged
43 Dimethylphthalate	1.11931	1.06043	1.06043	0.000	-5.26041	60.00000	Averaged
44 2,6-Dinitrotoluene	0.26333	0.24451	0.24451	0.000	-7.14901	60.00000	Averaged
50 2,4-Dinitrotoluene	0.33898	0.30786	0.30786	0.000	-9.18051	60.00000	Averaged
45 Acenaphthylene	1.51145	1.46116	1.46116	0.000	-3.32730	60.00000	Averaged
47 Acenaphthene	0.95605	0.88164	0.88164	0.001	-7.78254	20.00000	Averaged ccc
48 2,4-Dinitrophenol	27.48891	40.00000	0.05048	0.050	-31.27772	60.00000	Linear spcc
49 Dibenzofuran	1.32002	1.24043	1.24043	0.000	-6.02953	60.00000	Averaged
51 Diethylphthalate	1.12441	1.09500	1.09500	0.000	-2.61544	60.00000	Averaged
52 4-Nitrophenol	34.70422	40.00000	0.15472	0.050	-13.23945	60.00000	Linear spcc
53 Fluorene	1.11179	1.07175	1.07175	0.000	-3.60170	60.00000	Averaged
54 4-Chlorophenylphenylether	0.54913	0.51875	0.51875	0.000	-5.53164	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	27.40380	40.00000	0.05446	0.000	-31.49051	60.00000	Linear
56 p-Nitroaniline	36.14611	40.00000	0.14900	0.000	-9.63472	60.00000	Linear
133 Diphenylamine	0.48690	0.44783	0.44783	0.001	-8.02421	20.00000	Averaged ccc
58 1,2-Diphenylhydrazine	0.65474	0.55538	0.55538	0.000	-15.17530	60.00000	Averaged
61 4-Bromophenylphenylether	0.17937	0.16769	0.16769	0.000	-6.51312	60.00000	Averaged
63 Hexachlorobenzene	0.17666	0.18253	0.18253	0.000	3.31973	60.00000	Averaged
65 Pentachlorophenol	0.09488	0.08765	0.08765	0.001	-7.61317	20.00000	Averaged ccc
206 n-Octadecane	0.54176	0.42813	0.42813	0.000	-20.97417	60.00000	Averaged
68 Phenanthrene	0.89268	0.80640	0.80640	0.000	-9.66470	60.00000	Averaged
69 Anthracene	0.89878	0.80501	0.80501	0.000	-10.43356	60.00000	Averaged
72 Di-n-butylphthalate	1.10215	1.08066	1.08066	0.000	-1.94932	60.00000	Averaged
76 Fluoranthene	0.99494	0.95650	0.95650	0.001	-3.86298	20.00000	Averaged ccc
79 Pyrene	1.14939	1.04220	1.04220	0.000	-9.32563	60.00000	Averaged
85 Butylbenzylphthalate	0.53712	0.46385	0.46385	0.000	-13.64173	60.00000	Averaged
89 Benzo(a)anthracene	0.96577	0.87366	0.87366	0.000	-9.53775	60.00000	Averaged
92 Chrysene	0.88866	0.81109	0.81109	0.000	-8.72825	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.70898	0.63014	0.63014	0.000	-11.11992	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 02-JAN-2010 15:54
Lab File ID: s7a0205.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.21924	1.09524	1.09524	0.001	-10.17069	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	0.99301	0.90074	0.90074	0.000	-9.29177	60.00000	Averaged
96 Benzo(k)fluoranthene	0.95367	0.96363	0.96363	0.000	1.04508	60.00000	Averaged
97 Benzo(a)pyrene	0.88336	0.84485	0.84485	0.001	-4.35895	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.88047	0.84792	0.84792	0.000	-3.69649	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.70375	0.69800	0.69800	0.000	-0.81703	60.00000	Averaged
101 Benzo(ghi)perylene	0.75310	0.70967	0.70967	0.000	-5.76650	60.00000	Averaged
126 m-Dinitrobenzene	0.18303	0.16375	0.16375	0.000	-10.53720	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.26923	0.26260	0.26260	0.000	-2.46503	60.00000	Averaged
143 Dinoseb	31.86813	40.00000	0.10164	0.000	-20.32967	60.00000	Linear
173 Carbazole	0.65128	0.51241	0.51241	0.000	-21.32313	60.00000	Averaged
184 p-Benzoquinone	0.09711	0.05616	0.05616	0.000	-42.16582	60.00000	Averaged
192 Methoxychlor	0.64576	0.59801	0.59801	0.000	-7.39500	60.00000	Averaged
211 p-Toluidine	0.94846	0.47141	0.47141	0.000	-50.29760	60.00000	Averaged
210 m-Toluidine	1.22813	0.89899	0.89899	0.000	-26.80027	60.00000	Averaged
215 2-Ethoxyethanol	0.70593	0.41449	0.41449	0.000	-41.28518	60.00000	Averaged
179 Dibenzo(a,e)pyrene	0.40786	0.44101	0.44101	0.000	8.12792	60.00000	Averaged
26 Phthalic anhydride	9.27497	40.00000	0.01880	0.000	-76.81257	60.00000	Linear <-
214 1,4-Dinitrobenzene	0.19404	0.17923	0.17923	0.000	-7.63419	60.00000	Averaged
216 Methylenebis(2-chloroanilin	0.12476	0.08255	0.08255	0.000	-33.83002	60.00000	Averaged
M 222 Trichlorophenols	0.30910	0.28121	0.28121	0.000	-9.02277	60.00000	Averaged
M 223 Tetrachlorophenols	0.26923	0.26260	0.26260	0.000	-2.46503	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	0.97334	0.93219	0.93219	0.000	-4.22780	60.00000	Averaged

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Data file : /chem/MSD7.i/s010210.b/s7a0205.d
Lab Smp Id: WBN091225-12.2 Client Smp ID: MEGACVS
Inj Date : 02-JAN-2010 15:54
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN091225-12.2|CVS|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 09:07 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	217575	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	798340	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	464697	40.0000	
* 67 Phenanthrene-d10	188	7.236	7.236	(1.000)	876904	40.0000	
* 91 Chrysene-d12	240	9.638	9.638	(1.000)	863955	40.0000	
* 98 Perylene-d12	264	11.295	11.295	(1.000)	746635	40.0000	
\$ 3 2-Fluorophenol	112	3.152	3.152	(0.796)	178035	40.0000	30.6
\$ 5 Phenol-d5	99	3.672	3.672	(0.927)	235026	40.0000	32.5
\$ 20 Nitrobenzene-d5	82	4.322	4.322	(0.896)	238875	40.0000	39.0
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	481796	40.0000	38.3(H)
\$ 60 2,4,6-Tribromophenol	329	6.667	6.667	(1.098)	66805	40.0000	42.6
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.893)	547394	40.0000	37.8
1 N-Methyl-N-nitrosomethylamine	74	2.488	2.488	(0.628)	129117	40.0000	34.7
2 Pyridine	79	2.517	2.517	(0.635)	155802	40.0000	35.2
4 Aniline	66	3.744	3.744	(0.945)	92275	40.0000	30.6
6 Phenol	94	3.677	3.677	(0.928)	237295	40.0000	32.6
7 bis(2-Chloroethyl) ether	63	3.759	3.759	(0.949)	187495	40.0000	33.1
8 2-Chlorophenol	128	3.826	3.826	(0.966)	199478	40.0000	32.9
203 n-Decane	43	3.812	3.812	(0.962)	319905	40.0000	31.2
9 1,3-Dichlorobenzene	146	3.927	3.927	(0.991)	259349	40.0000	37.3
11 1,4-Dichlorobenzene	146	3.976	3.976	(1.004)	255590	40.0000	37.8
13 1,2-Dichlorobenzene	146	4.077	4.077	(1.029)	241399	40.0000	38.8
14 bis(2-Chloroisopropyl)ether	45	4.101	4.101	(1.035)	384063	40.0000	27.5(H)
12 Benzyl alcohol	108	4.024	4.024	(1.016)	116572	40.0000	30.1
15 o-Cresol	107	4.072	4.072	(1.028)	156597	40.0000	34.3
18 m,p-Cresols	107	4.168	4.168	(1.052)	184815	40.0000	30.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
17 N-Nitrosodipropylamine	70	4.192	4.192	(1.058)	150000	40.0000	34.4
19 Hexachloroethane	117	4.308	4.308	(1.088)	102051	40.0000	36.3
21 Nitrobenzene	77	4.332	4.332	(0.898)	212819	40.0000	37.4
22 Isophorone	82	4.486	4.486	(0.930)	442288	40.0000	40.2
23 2-Nitrophenol	139	4.549	4.549	(0.943)	95516	40.0000	33.4
24 2,4-Dimethylphenol	122	4.534	4.534	(0.940)	188646	40.0000	37.5
25 bis(2-Chloroethoxy)methane	93	4.602	4.602	(0.954)	234752	40.0000	37.8
26 2,4-Dichlorophenol	162	4.703	4.703	(0.975)	159144	40.0000	36.0
27 Benzoic acid	105	4.573	4.573	(0.948)	38537	40.0000	21.8
28 1,2,4-Trichlorobenzene	180	4.770	4.770	(0.989)	210011	40.0000	39.3
30 Naphthalene	128	4.838	4.838	(1.003)	588058	40.0000	36.6
204 alpha-Terpineol	59	4.809	4.809	(0.997)	201103	40.0000	37.2
31 4-Chloroaniline	127	4.838	4.838	(1.003)	180315	40.0000	27.6
32 Hexachlorobutadiene	225	4.905	4.905	(1.017)	120932	40.0000	41.6
33 4-Chloro-3-methylphenol	107	5.155	5.155	(1.069)	171689	40.0000	37.1
34 2-Methylnaphthalene	142	5.319	5.319	(1.103)	432859	40.0000	39.8
35 1-Methylnaphthalene	142	5.391	5.391	(1.118)	433342	40.0000	41.1
36 Hexachlorocyclopentadiene	237	5.420	5.420	(0.893)	116303	40.0000	43.5
205 2,3-Dichloroaniline	161	5.512	5.512	(0.908)	225237	40.0000	37.8
37 2,4,6-Trichlorophenol	196	5.502	5.502	(0.906)	129625	40.0000	36.9
38 2,4,5-Trichlorophenol	196	5.526	5.526	(0.910)	131731	40.0000	35.9
40 2-Chloronaphthalene	162	5.666	5.666	(0.933)	393187	40.0000	34.9
42 o-Nitroaniline	65	5.724	5.724	(0.943)	123815	40.0000	34.1
41 m-Nitroaniline	138	6.022	6.022	(0.992)	39423	40.0000	17.1
43 Dimethylphthalate	163	5.830	5.830	(0.960)	492779	40.0000	37.9
44 2,6-Dinitrotoluene	165	5.882	5.882	(0.969)	113621	40.0000	37.1
50 2,4-Dinitrotoluene	165	6.181	6.181	(1.018)	143060	40.0000	36.3
45 Acenaphthylene	152	5.974	5.974	(0.984)	678997	40.0000	38.7
47 Acenaphthene	154	6.094	6.094	(1.004)	409697	40.0000	36.9
48 2,4-Dinitrophenol	184	6.090	6.090	(1.003)	23458	40.0000	27.5
49 Dibenzofuran	168	6.220	6.220	(1.025)	576422	40.0000	37.6
51 Diethylphthalate	149	6.340	6.340	(1.044)	508842	40.0000	39.0
52 4-Nitrophenol	139	6.099	6.099	(1.005)	71897	40.0000	34.7
53 Fluorene	166	6.480	6.480	(1.067)	498038	40.0000	38.6
54 4-Chlorophenylphenylether	204	6.455	6.455	(1.063)	241063	40.0000	37.8
55 2-Methyl-4,6-dinitrophenol	198	6.494	6.494	(0.898)	47752	40.0000	27.4
56 p-Nitroaniline	138	6.480	6.480	(1.067)	69238	40.0000	36.1 (H)
133 Diphenylamine	169	6.542	6.542	(0.904)	392701	40.0000	36.8
58 1,2-Diphenylhydrazine	77	6.581	6.581	(0.909)	487015	40.0000	33.9
61 4-Bromophenylphenylether	248	6.846	6.846	(0.946)	147044	40.0000	37.4
63 Hexachlorobenzene	284	6.918	6.918	(0.956)	160059	40.0000	41.3
65 Pentachlorophenol	266	7.062	7.062	(0.976)	76863	40.0000	37.0
206 n-Octadecane	57	7.053	7.053	(0.975)	375432	40.0000	31.6
68 Phenanthrene	178	7.260	7.260	(1.003)	707137	40.0000	36.1
69 Anthracene	178	7.303	7.303	(1.009)	705914	40.0000	35.8
72 Di-n-butylphthalate	149	7.654	7.654	(1.058)	947636	40.0000	39.2
76 Fluoranthene	202	8.295	8.295	(1.146)	838763	40.0000	38.4

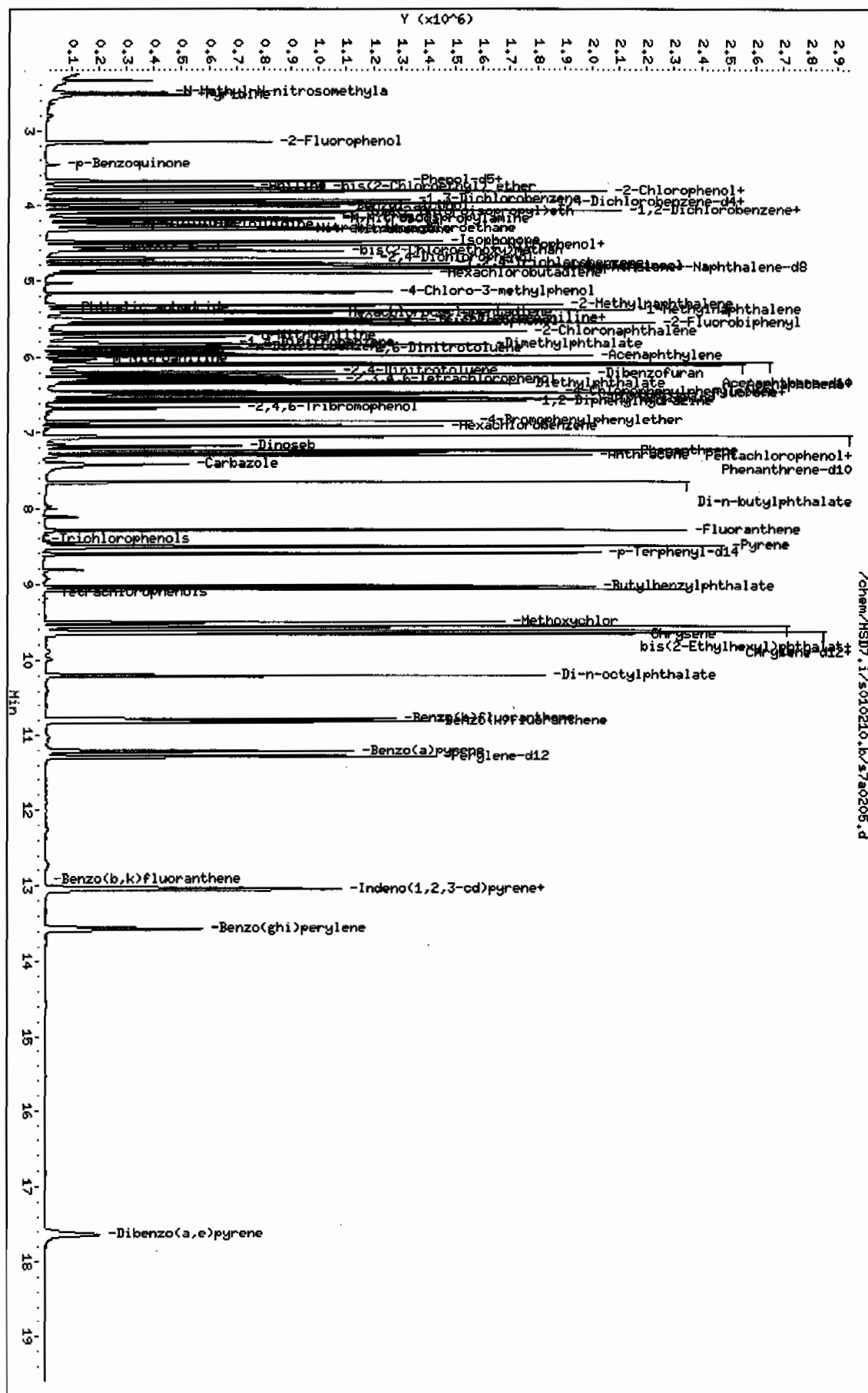
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	8.512	8.512	(0.883)	900418	40.0000	36.3
85 Butylbenzylphthalate	149	9.037	9.037	(0.938)	400746	40.0000	34.5
89 Benzo(a)anthracene	228	9.624	9.624	(0.998)	754804	40.0000	36.2
92 Chrysene	228	9.662	9.662	(1.002)	700747	40.0000	36.5
93 bis(2-Ethylhexyl)phthalate	149	9.561	9.561	(0.992)	544416	40.0000	35.6
94 Di-n-octylphthalate	149	10.207	10.207	(0.904)	817744	40.0000	35.9
95 Benzo(b)fluoranthene	252	10.784	10.784	(0.955)	672525	40.0000	36.3
96 Benzo(k)fluoranthene	252	10.818	10.818	(0.958)	719482	40.0000	40.4
97 Benzo(a)pyrene	252	11.218	11.218	(0.993)	630798	40.0000	38.2
99 Indeno(1,2,3-cd)pyrene	276	13.043	13.043	(1.155)	633087	40.0000	38.5
100 Dibenzo(a,h)anthracene	278	13.057	13.057	(1.156)	521151	40.0000	39.7
101 Benzo(ghi)perylene	276	13.573	13.573	(1.202)	529866	40.0000	37.7
126 m-Dinitrobenzene	168	5.868	5.868	(0.967)	76093	40.0000	35.8
130 2,3,4,6-Tetrachlorophenol	232	6.297	6.297	(1.037)	122028	40.0000	39.0
143 Dinoseb	211	7.183	7.183	(0.993)	89126	40.0000	31.9
173 Carbazole	167	7.419	7.419	(1.025)	449332	40.0000	31.5
184 p-Benzoquinone	54	3.451	3.451	(0.871)	12220	40.0000	23.1
192 Methoxychlor	227	9.508	9.508	(0.986)	516653	40.0000	37.0
211 p-Toluidine	106	4.236	4.236	(1.069)	102566	40.0000	19.9
210 m-Toluidine	106	4.255	4.255	(1.074)	195598	40.0000	29.3(H)
215 2-Ethoxyethanol	59	2.334	2.334	(0.589)	90182	40.0000	23.5
179 Dibenzo(a,e)pyrene	302	17.632	17.632	(1.561)	329272	40.0000	43.2
26 Phthalic anhydride	104	5.343	5.343	(1.108)	15011	40.0000	9.3
214 1,4-Dinitrobenzene	75	5.810	5.810	(0.957)	83287	40.0000	36.9
216 Methylenebis(2-chloroaniline)	231	9.571	9.571	(0.993)	71322	40.0000	26.5
M 222 Trichlorophenols	196				261356	80.0000	72.8
M 223 Tetrachlorophenols	232				122028	40.0000	39.0
M 224 Benzo(b,k)fluoranthene	252				1392007	80.0000	76.6

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/MSD7.i/s010210.k/s7a0205.d
 Date: 02-JAN-2010 15:54
 Client ID: MECACVS
 Sample Info: IJBN091225-12.21CVS111SWF111MECACVS
 Column phase: J&W DB-5MS

Instrument: MSD7.1
 Operator: JMB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 02-JAN-2010 16:21
Lab File ID: s7a0206.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091201-08.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.91426	0.73825	0.73825	0.000	-19.25209	60.00000	Averaged
16 Acetophenone	1.25268	1.08230	1.08230	0.000	-13.60185	60.00000	Averaged
189 Caprolactam	0.08525	0.08888	0.08888	0.000	4.26693	60.00000	Averaged
208 1,1'-Biphenyl	1.22037	1.22843	1.22843	0.000	0.66021	60.00000	Averaged
207 Atrazine	0.04386	0.04510	0.04510	0.000	2.83072	60.00000	Averaged
77 Benzidine	15.95609	40.00000	0.11060	0.000	-60.10979	60.00000	Linear <-
90 3,3'-Dichlorobenzidine	0.32314	0.30565	0.30565	0.000	-5.41295	60.00000	Averaged
102 1,4-Dioxane	0.39191	0.38602	0.38602	0.000	-1.50220	60.00000	Averaged
103 Methyl methacrylate	0.21768	0.21048	0.21048	0.000	-3.30852	60.00000	Averaged
104 Ethyl methacrylate	0.84734	0.93411	0.93411	0.000	10.24043	60.00000	Averaged
105 2-Picoline	1.27319	1.10346	1.10346	0.000	-13.33111	60.00000	Averaged
106 N-Nitrosomethylethylamine	0.50185	0.43829	0.43829	0.000	-12.66554	60.00000	Averaged
107 Methyl methanesulfonate	0.56571	0.52722	0.52722	0.000	-6.80309	60.00000	Averaged
108 N-Nitrosodiethylamine	0.52257	0.44278	0.44278	0.000	-15.26845	60.00000	Averaged
109 Ethyl Methanesulfonate	0.71008	0.74327	0.74327	0.000	4.67407	60.00000	Averaged
110 Pentachloroethane	0.35164	0.46431	0.46431	0.000	32.04349	60.00000	Averaged
111 N-Nitrosopyrrolidine	0.53069	0.46917	0.46917	0.000	-11.59134	60.00000	Averaged
113 N-Nitrosomorpholine	0.79838	0.58144	0.58144	0.000	-27.17265	60.00000	Averaged
114 o-Toluidine	1.75483	1.45855	1.45855	0.000	-16.88338	60.00000	Averaged
115 N-Nitrosopiperidine	0.14648	0.13421	0.13421	0.000	-8.38043	60.00000	Averaged
116 a,a-Dimethylphenethylamine	0.97956	0.73926	0.73926	0.000	-24.53201	60.00000	Averaged
118 2,6-Dichlorophenol	0.22483	0.22086	0.22086	0.000	-1.76680	60.00000	Averaged
119 Hexachloropropene	0.12226	0.19990	0.19990	0.000	63.50548	60.00000	Averaged <-
120 p-Phenylenediamine	31.48233	40.00000	0.17817	0.000	-21.29418	60.00000	Linear
121 N-Nitrosodi-n-butylamine	0.21962	0.19045	0.19045	0.000	-13.28496	60.00000	Averaged
122 Safrole	0.20249	0.23597	0.23597	0.000	16.53550	60.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.45257	0.49953	0.49953	0.000	10.37578	60.00000	Averaged
124 Isosafrole	0.35719	0.45472	0.45472	0.000	27.30485	60.00000	Averaged
125 1,4-Naphthoquinone	0.32292	0.34692	0.34692	0.000	7.43095	60.00000	Averaged
127 Pentachlorobenzene	0.40007	0.44016	0.44016	0.000	10.02002	60.00000	Averaged
128 1-Naphthylamine	0.91971	0.91644	0.91644	0.000	-0.35588	60.00000	Averaged
129 2-Naphthylamine	0.99301	0.92585	0.92585	0.000	-6.76389	60.00000	Averaged
131 5-Nitro-o-toluidine	0.29348	0.30343	0.30343	0.000	3.39043	60.00000	Averaged
136 1,3,5-Trinitrobenzene	46.50957	40.00000	0.16691	0.000	16.27393	60.00000	Linear
137 Phenacetin	0.29039	0.28391	0.28391	0.000	-2.23162	60.00000	Averaged
138 Diallate	0.23950	0.21465	0.21465	0.000	-10.37468	60.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 02-JAN-2010 16:21
 Lab File ID: s7a0206.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
 Analysis Type: Init. Cal. Times: 09:11 00:58
 Lab Sample ID: WBN091201-08.2 Quant Type: ISTD
 Method: /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.25521	0.29069	0.29069	0.000	13.90108	60.00000	Averaged
213 Trans Diallate	0.28177	0.25253	0.25253	0.000	-10.37468	60.00000	Averaged
140 4-Aminobiphenyl	0.59215	0.44791	0.44791	0.000	-24.35895	60.00000	Averaged
141 Pentachloronitrobenzene	0.06915	0.08130	0.08130	0.000	17.56896	60.00000	Averaged
142 Pronamide	0.26312	0.30074	0.30074	0.000	14.29581	60.00000	Averaged
146 4-Nitroquinoline-1-oxide	48.56211	40.00000	0.03118	0.000	21.40527	60.00000	Wt Linear
147 Methapyrilene	0.51155	0.44354	0.44354	0.000	-13.29549	60.00000	Averaged
148 Isodrin	0.10826	0.09855	0.09855	0.000	-8.96858	60.00000	Averaged
149 Aramite	0.05353	0.04429	0.04429	0.000	-17.26503	60.00000	Averaged
150 Kepone	0.08030	0.08291	0.08291	0.000	3.25055	60.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.30437	0.27106	0.27106	0.000	-10.94434	60.00000	Averaged
152 Chlorobenzilate	0.27301	0.26902	0.26902	0.000	-1.45889	60.00000	Averaged
153 3,3'-Dimethylbenzidine	0.50900	0.32634	0.32634	0.000	-35.88694	60.00000	Averaged
155 2-Acetylaminofluorene	0.37564	0.32866	0.32866	0.000	-12.50664	60.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.46508	0.43901	0.43901	0.000	-5.60390	60.00000	Averaged
158 3-Methylcholanthrene	0.41462	0.42418	0.42418	0.000	2.30705	60.00000	Averaged

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Data file : /chem/MSD7.i/s010210.b/s7a0206.d
Lab Smp Id: WBN091201-08.2 Client Smp ID: APCVS
Inj Date : 02-JAN-2010 16:21
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN091201-08.2|CVS|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 09:07 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP12.sub
Target Version: 3.50
Processing Host: kilroy

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	319191	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1144958	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	676544	40.0000	
* 67 Phenanthrene-d10	188	7.240	7.240	(1.000)	1284604	40.0000	
* 91 Chrysene-d12	240	9.634	9.634	(1.000)	1268214	40.0000	
* 98 Perylene-d12	264	11.295	11.295	(1.000)	1072369	40.0000	
209 Benzaldehyde	77	3.691	3.691	(0.932)	235642	40.0000	32.3
16 Acetophenone	105	4.212	4.212	(1.063)	345459	40.0000	34.6
189 Caprolactam	113	5.093	5.093	(1.056)	101768	40.0000	41.7
208 1,1'-Biphenyl	154	5.642	5.642	(0.929)	831088	40.0000	40.3
207 Atrazine	173	6.937	6.937	(0.958)	57940	40.0000	41.1
77 Benzidine	184	8.386	8.386	(0.871)	140259	40.0000	16.0
90 3,3'-Dichlorobenzidine	252	9.571	9.571	(0.994)	387626	40.0000	37.8
102 1,4-Dioxane	88	2.348	2.348	(0.593)	123214	40.0000	39.4 (H)
103 Methyl methacrylate	100	2.338	2.338	(0.590)	67183	40.0000	38.7
104 Ethyl methacrylate	69	2.695	2.695	(0.680)	298160	40.0000	44.1
105 2-Picoline	93	2.882	2.882	(0.728)	352214	40.0000	34.7
106 N-Nitrosomethylethylamine	88	2.921	2.921	(0.737)	139898	40.0000	34.9 (H)
107 Methyl methanesulfonate	80	3.070	3.070	(0.775)	168285	40.0000	37.3
108 N-Nitrosodiethylamine	102	3.301	3.301	(0.833)	141331	40.0000	33.9
109 Ethyl Methanesulfonate	79	3.451	3.451	(0.871)	237245	40.0000	41.9
110 Pentachloroethane	167	3.793	3.793	(0.957)	148204	40.0000	52.8
111 N-Nitrosopyrrolidine	100	4.197	4.197	(1.060)	149756	40.0000	35.4
113 N-Nitrosomorpholine	56	4.216	4.216	(1.064)	185590	40.0000	29.1
114 o-Toluidine	106	4.236	4.236	(1.069)	465557	40.0000	33.2 (H)
115 N-Nitrosopiperidine	114	4.433	4.433	(0.919)	153661	40.0000	36.6

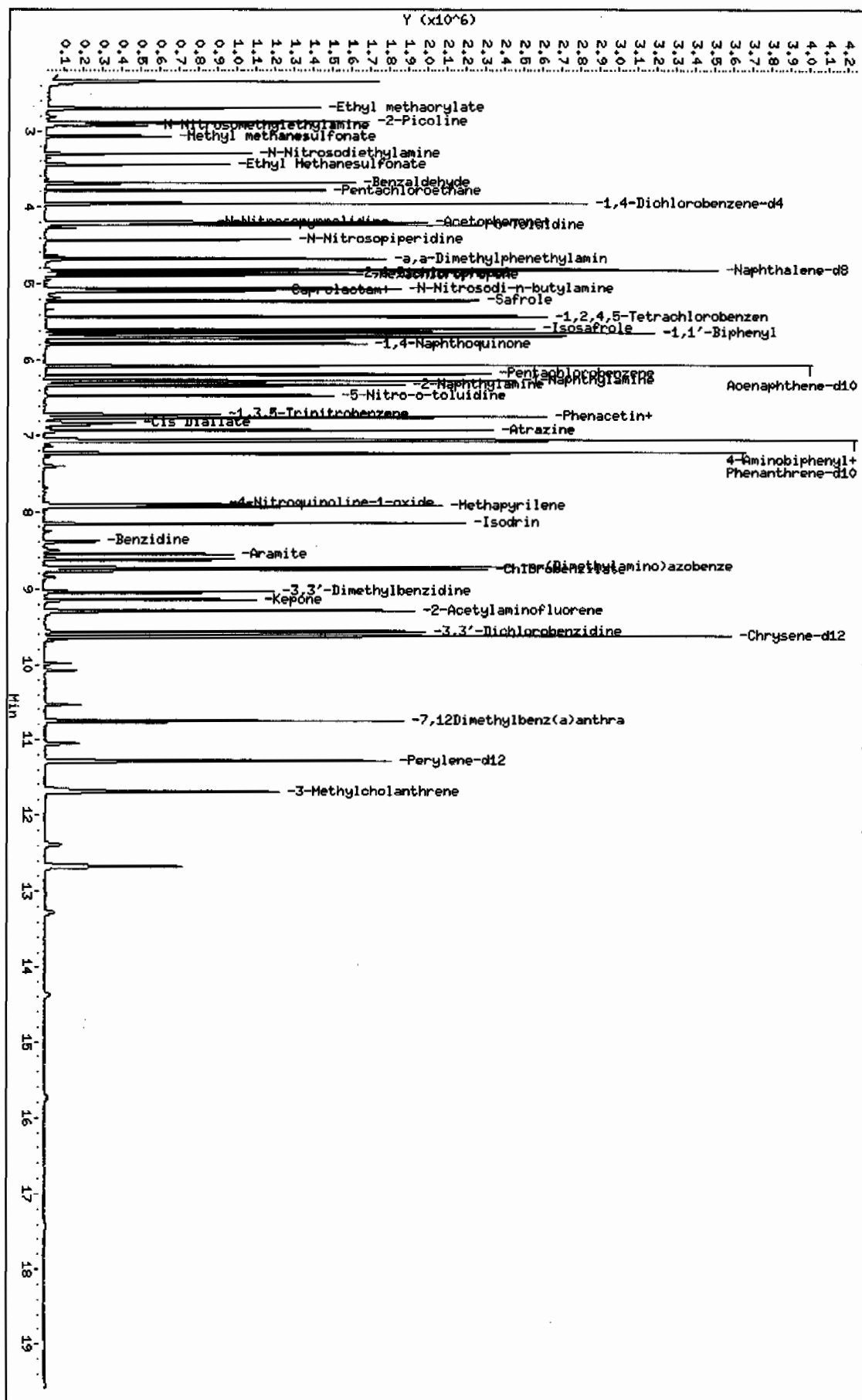
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.679	4.679	(0.970)	846417	40.0000	30.2
118 2,6-Dichlorophenol	162	4.866	4.866	(1.009)	252878	40.0000	39.3
119 Hexachloropropene	213	4.895	4.895	(1.015)	228873	40.0000	65.4
120 p-Phenylenediamine	108	5.102	5.102	(1.058)	203998	40.0000	31.5
121 N-Nitrosodi-n-butylamine	84	5.064	5.064	(1.050)	218053	40.0000	34.7
122 Safrole	162	5.232	5.232	(1.085)	270181	40.0000	46.6
123 1,2,4,5-Tetrachlorobenzene	216	5.435	5.435	(0.895)	337951	40.0000	44.2
124 Isosafrole	162	5.598	5.598	(0.922)	307637	40.0000	50.9
125 1,4-Naphthoquinone	158	5.786	5.786	(0.953)	234705	40.0000	43.0
127 Pentachlorobenzene	250	6.191	6.191	(1.020)	297785	40.0000	44.0
128 1-Naphthylamine	143	6.272	6.272	(1.033)	620012	40.0000	39.8
129 2-Naphthylamine	143	6.330	6.330	(1.043)	626376	40.0000	37.3
131 5-Nitro-o-toluidine	152	6.470	6.470	(1.066)	205286	40.0000	41.4
136 1,3,5-Trinitrobenzene	75	6.715	6.715	(0.928)	214414	40.0000	46.5
137 Phenacetin	108	6.764	6.764	(0.934)	364715	40.0000	39.1
138 Diallate	86	6.749	6.749	(0.932)	275746	40.0000	35.8
212 Cis Diallate	86	6.826	6.826	(0.943)	56013	6.00000	6.8
213 Trans Diallate	86	6.749	6.749	(0.932)	275746	34.0000	30.5
140 4-Aminobiphenyl	169	7.053	7.053	(0.974)	575383	40.0000	30.2
141 Pentachloronitrobenzene	237	7.072	7.072	(0.977)	104441	40.0000	47.0
142 Pronamide	173	7.067	7.067	(0.976)	386330	40.0000	45.7
146 4-Nitroquinoline-1-oxide	101	7.905	7.905	(1.092)	40048	40.0000	48.6
147 Methapyrilene	58	7.939	7.939	(1.096)	569774	40.0000	34.7
148 Isodrin	193	8.160	8.160	(1.127)	126600	40.0000	36.4
149 Aramite	185	8.555	8.555	(1.182)	56893	40.0000	33.1
150 Kepone	272	9.147	9.147	(1.263)	106506	40.0000	41.3
151 p-(Dimethylamino)azobenzene	120	8.733	8.733	(0.907)	343762	40.0000	35.6
152 Chlorobenzilate	251	8.767	8.767	(0.910)	341181	40.0000	39.4
153 3,3'-Dimethylbenzidine	212	9.051	9.051	(0.940)	413867	40.0000	25.6
155 2-Acetylaminofluorene	181	9.296	9.296	(0.965)	416806	40.0000	35.0
157 7,12Dimethylbenz(a)anthracene	256	10.756	10.756	(0.952)	470786	40.0000	37.8
158 3-Methylcholanthrene	268	11.695	11.695	(1.035)	454882	40.0000	40.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/MSD7.1/5010210.b/57a0206.d
 Date: 02-JAN-2010 16:21
 Client ID: APCVS
 Sample Info: I4BN094201-08.21CVS111SMF111APCVS
 Column phase: J&W DB-SMS

Instrument: MSD7.1
 Operator: JMB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 04-JAN-2010 11:41
Lab File ID: s7a0403.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
RRF	%D	%DRIFT	%D	%DRIFT		
\$ 3 2-Fluorophenol	1.07094	0.89868	0.89868 0.000	-16.08454	60.00000	Averaged
\$ 5 Phenol-d5	1.32779	1.14045	1.14045 0.000	-14.10875	60.00000	Averaged
\$ 20 Nitrobenzene-d5	0.30706	0.31231	0.31231 0.000	1.70876	60.00000	Averaged
\$ 39 2-Fluorobiphenyl	1.08224	1.05420	1.05420 0.000	-2.59116	60.00000	Averaged
\$ 60 2,4,6-Tribromophenol	0.13487	0.16104	0.16104 0.000	19.40235	60.00000	Averaged
\$ 81 p-Terphenyl-d14	0.67075	0.68748	0.68748 0.000	2.49491	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.68458	0.62527	0.62527 0.000	-8.66372	60.00000	Averaged
2 Pyridine	0.81333	0.73933	0.73933 0.000	-9.09809	60.00000	Averaged
4 Aniline	0.55399	0.44685	0.44685 0.000	-19.34033	60.00000	Averaged
6 Phenol	1.33798	1.15634	1.15634 0.001	-13.57611	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.04232	0.84246	0.84246 0.000	-19.17494	60.00000	Averaged
8 2-Chlorophenol	1.11390	0.98428	0.98428 0.000	-11.63670	60.00000	Averaged
203 n-Decane	1.88408	1.37126	1.37126 0.000	-27.21871	60.00000	Averaged
9 1,3-Dichlorobenzene	1.27677	1.22375	1.22375 0.000	-4.15316	60.00000	Averaged
11 1,4-Dichlorobenzene	1.24268	1.17631	1.17631 0.001	-5.34072	20.00000	Averaged ccc
13 1,2-Dichlorobenzene	1.14422	1.12779	1.12779 0.000	-1.43586	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.56663	1.66195	1.66195 0.000	-35.24792	60.00000	Averaged
12 Benzyl alcohol	0.71203	0.56461	0.56461 0.000	-20.70360	60.00000	Averaged
15 o-Cresol	0.83996	0.73927	0.73927 0.000	-11.98723	60.00000	Averaged
18 m,p-Cresols	1.12560	0.92298	0.92298 0.000	-18.00052	60.00000	Averaged
17 N-Nitrosodipropylamine	0.80134	0.70500	0.70500 0.050	-12.02288	60.00000	Averaged spcc
19 Hexachloroethane	0.51674	0.47448	0.47448 0.000	-8.17830	60.00000	Averaged
21 Nitrobenzene	0.28480	0.27299	0.27299 0.000	-4.14651	60.00000	Averaged
22 Isophorone	0.55110	0.57531	0.57531 0.000	4.39321	60.00000	Averaged
23 2-Nitrophenol	0.14313	0.13715	0.13715 0.001	-4.17708	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.25207	0.25888	0.25888 0.000	2.70207	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.31130	0.31141	0.31141 0.000	0.03526	60.00000	Averaged
26 2,4-Dichlorophenol	0.22142	0.22361	0.22361 0.001	0.98781	20.00000	Averaged ccc
27 Benzoic acid	38.74558	40.00000	0.12093 0.000	-3.13606	60.00000	Linear
28 1,2,4-Trichlorobenzene	0.26794	0.27132	0.27132 0.000	1.26092	60.00000	Averaged
30 Naphthalene	0.80421	0.74496	0.74496 0.000	-7.36676	60.00000	Averaged
204 alpha-Terpineol	0.27113	0.25066	0.25066 0.000	-7.54907	60.00000	Averaged
31 4-Chloroaniline	0.32790	0.23871	0.23871 0.000	-27.20132	60.00000	Averaged
32 Hexachlorobutadiene	0.14561	0.15707	0.15707 0.001	7.87040	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.23185	0.23836	0.23836 0.001	2.80684	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.54489	0.57459	0.57459 0.000	5.45062	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 04-JAN-2010 11:41
Lab File ID: s7a0403.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE	
			RRF40	RRF	%D / %DRIFT	%D / %DRIFT	
35 1-Methylnaphthalene	0.52781	0.56420	0.56420	0.000	6.89439	60.00000	Averaged
36 Hexachlorocyclopentadiene	0.22989	0.24561	0.24561	0.050	6.84024	60.00000	Averaged
205 2,3-Dichloroaniline	0.51293	0.49580	0.49580	0.000	-3.34007	60.00000	Averaged
37 2,4,6-Trichlorophenol	0.30263	0.30065	0.30065	0.001	-0.65128	20.00000	Averaged
38 2,4,5-Trichlorophenol	0.31558	0.31303	0.31303	0.000	-0.80593	60.00000	Averaged
40 2-Chloronaphthalene	0.97053	0.87422	0.87422	0.000	-9.92347	60.00000	Averaged
42 o-Nitroaniline	0.31209	0.26137	0.26137	0.000	-16.25177	60.00000	Averaged
41 m-Nitroaniline	0.19808	0.08305	0.08305	0.000	-58.07245	60.00000	Averaged
43 Dimethylphthalate	1.11931	1.11080	1.11080	0.000	-0.76000	60.00000	Averaged
44 2,6-Dinitrotoluene	0.26333	0.25429	0.25429	0.000	-3.43513	60.00000	Averaged
50 2,4-Dinitrotoluene	0.33898	0.32694	0.32694	0.000	-3.55133	60.00000	Averaged
45 Acenaphthylene	1.51145	1.51456	1.51456	0.000	0.20596	60.00000	Averaged
47 Acenaphthene	0.95605	0.91807	0.91807	0.001	-3.97232	20.00000	Averaged
48 2,4-Dinitrophenol	40.03962	40.00000	0.09365	0.050	0.09905	60.00000	Linear
49 Dibenzofuran	1.32002	1.30198	1.30198	0.000	-1.36622	60.00000	Averaged
51 Diethylphthalate	1.12441	1.14368	1.14368	0.000	1.71456	60.00000	Averaged
52 4-Nitrophenol	36.38109	40.00000	0.16309	0.050	-9.04728	60.00000	Linear
53 Fluorene	1.11179	1.11713	1.11713	0.000	0.47992	60.00000	Averaged
54 4-Chlorophenylphenylether	0.54913	0.54628	0.54628	0.000	-0.51894	60.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	37.37628	40.00000	0.08140	0.000	-6.55930	60.00000	Linear
56 p-Nitroaniline	29.06774	40.00000	0.11133	0.000	-27.33066	60.00000	Linear
133 Diphenylamine	0.48690	0.43600	0.43600	0.001	-10.45324	20.00000	Averaged
58 1,2-Diphenylhydrazine	0.65474	0.55724	0.55724	0.000	-14.89138	60.00000	Averaged
61 4-Bromophenylphenylether	0.17937	0.17595	0.17595	0.000	-1.90665	60.00000	Averaged
63 Hexachlorobenzene	0.17666	0.18624	0.18624	0.000	5.42063	60.00000	Averaged
65 Pentachlorophenol	0.09488	0.10868	0.10868	0.001	14.54707	20.00000	Averaged
206 n-Octadecane	0.54176	0.41720	0.41720	0.000	-22.99275	60.00000	Averaged
68 Phenanthrene	0.89268	0.81386	0.81386	0.000	-8.82912	60.00000	Averaged
69 Anthracene	0.89878	0.81507	0.81507	0.000	-9.31448	60.00000	Averaged
72 Di-n-butylphthalate	1.10215	1.09406	1.09406	0.000	-0.73352	60.00000	Averaged
76 Fluoranthene	0.99494	0.98953	0.98953	0.001	-0.54373	20.00000	Averaged
79 Pyrene	1.14939	1.11551	1.11551	0.000	-2.94821	60.00000	Averaged
85 Butylbenzylphthalate	0.53712	0.55442	0.55442	0.000	3.22084	60.00000	Averaged
89 Benzo(a)anthracene	0.96577	0.90337	0.90337	0.000	-6.46205	60.00000	Averaged
92 Chrysene	0.88866	0.80976	0.80976	0.000	-8.87778	60.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.70898	0.75158	0.75158	0.000	6.00866	60.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 04-JAN-2010 11:41
Lab File ID: s7a0403.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN091225-12.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.21924	1.31658	1.31658	0.001	7.98357	20.00000	Averaged ccc
95 Benzo(b)fluoranthene	0.99301	0.97027	0.97027	0.000	-2.29020	60.00000	Averaged
96 Benzo(k)fluoranthene	0.95367	0.90381	0.90381	0.000	-5.22741	60.00000	Averaged
97 Benzo(a)pyrene	0.88336	0.84742	0.84742	0.001	-4.06867	20.00000	Averaged ccc
99 Indeno(1,2,3-cd)pyrene	0.88047	0.77579	0.77579	0.000	-11.88929	60.00000	Averaged
100 Dibenzo(a,h)anthracene	0.70375	0.62445	0.62445	0.000	-11.26880	60.00000	Averaged
101 Benzo(ghi)perylene	0.75310	0.64947	0.64947	0.000	-13.76088	60.00000	Averaged
126 m-Dinitrobenzene	0.18303	0.17332	0.17332	0.000	-5.30850	60.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.26923	0.29389	0.29389	0.000	9.15817	60.00000	Averaged
143 Dinoseb	41.25604	40.00000	0.13919	0.000	3.14011	60.00000	Linear
173 Carbazole	0.65128	0.46222	0.46222	0.000	-29.02852	60.00000	Averaged
184 p-Benzoquinone	0.09711	0.09234	0.09234	0.000	-4.91632	60.00000	Averaged
192 Methoxychlor	0.64576	0.68016	0.68016	0.000	5.32589	60.00000	Averaged
211 p-Toluidine	0.94846	0.58684	0.58684	0.000	-38.12641	60.00000	Averaged
210 m-Toluidine	1.22813	0.93008	0.93008	0.000	-24.26912	60.00000	Averaged
215 2-Ethoxyethanol	0.70593	0.54774	0.54774	0.000	-22.40885	60.00000	Averaged
179 Dibenzo(a,e)pyrene	0.40786	0.41063	0.41063	0.000	0.67907	60.00000	Averaged
26 Phthalic anhydride	37.34119	40.00000	0.09700	0.000	-6.64701	60.00000	Linear
214 1,4-Dinitrobenzene	0.19404	0.17463	0.17463	0.000	-10.00304	60.00000	Averaged
216 Methylenebis(2-chloroanilin	0.12476	0.09699	0.09699	0.000	-22.25648	60.00000	Averaged
M 222 Trichlorophenols	0.30910	0.30684	0.30684	0.000	-0.73023	60.00000	Averaged
M 223 Tetrachlorophenols	0.26923	0.29389	0.29389	0.000	9.15817	60.00000	Averaged
M 224 Benzo(b,k)fluoranthene	0.97334	0.93704	0.93704	0.000	-3.72912	60.00000	Averaged

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Data file : /chem/MSD7.i/s010410.b/s7a0403.d
Lab Smp Id: WBN091225-12.2 Client Smp ID: MEGACVS
Inj Date : 04-JAN-2010 11:41
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN091225-12.2|CVS|1|SVMF|1|MEGACVS
Misc Info : |MSD8270|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 13:20 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: MEGA.sub
Target Version: 3.50
Processing Host: hpclpl1

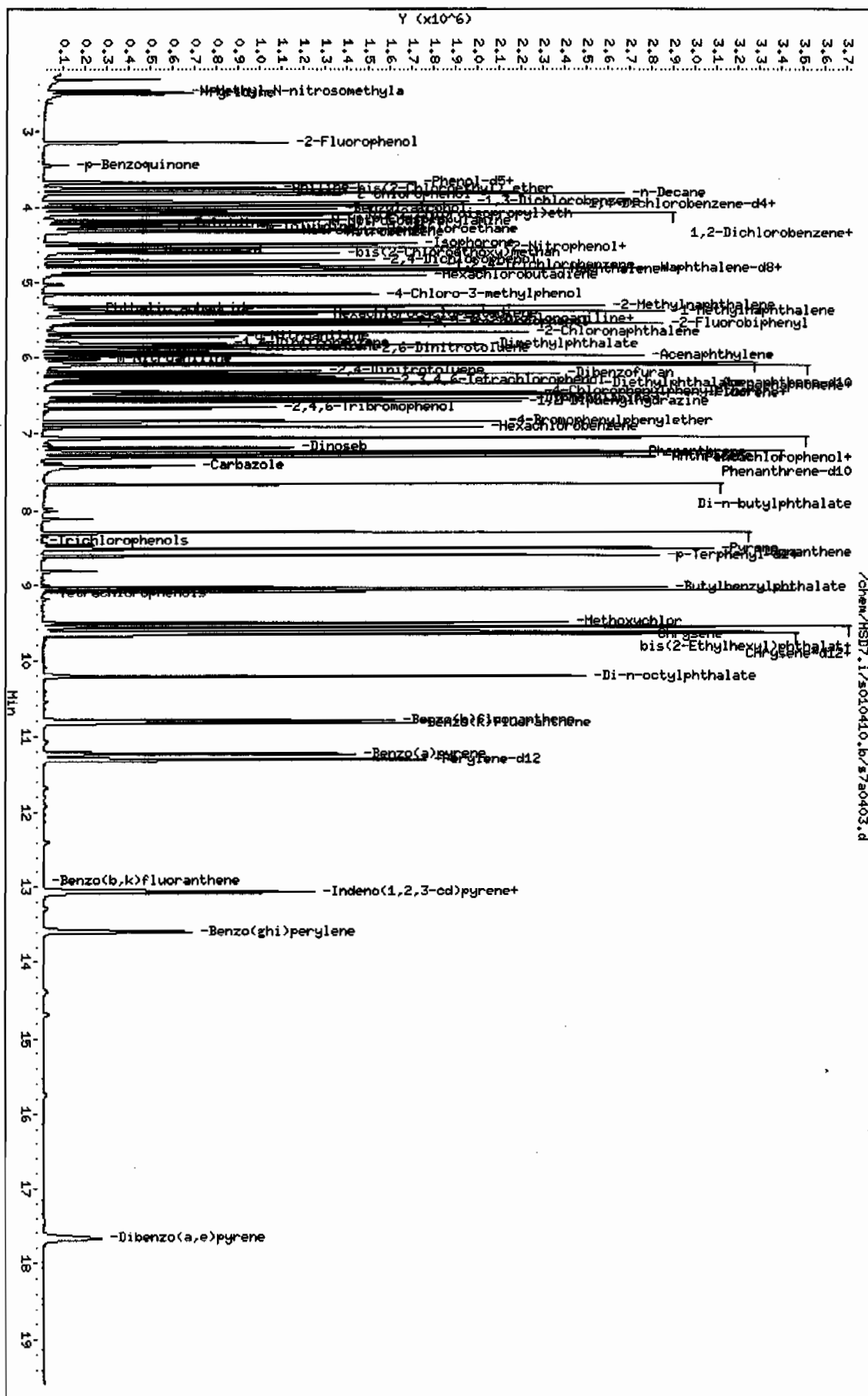
Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/ul)	ON-COL (ng/ul)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961 (1.000)	277706	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823 (1.000)	988090	40.0000	
* 46 Acenaphthene-d10	164	6.075	6.075 (1.000)	595807	40.0000	
* 67 Phenanthrene-d10	188	7.240	7.240 (1.000)	1152466	40.0000	
* 91 Chrysene-d12	240	9.643	9.643 (1.000)	1073914	40.0000	
* 98 Perylene-d12	264	11.309	11.309 (1.000)	960433	40.0000	
\$ 3 2-Fluorophenol	112	3.152	3.152 (0.796)	249570	40.0000	33.6
\$ 5 Phenol-d5	99	3.667	3.667 (0.926)	316711	40.0000	34.4
\$ 20 Nitrobenzene-d5	82	4.317	4.317 (0.895)	308587	40.0000	40.7
\$ 39 2-Fluorobiphenyl	172	5.560	5.560 (0.915)	628100	40.0000	39.0
\$ 60 2,4,6-Tribromophenol	329	6.667	6.667 (1.097)	95947	40.0000	47.8
\$ 81 p-Terphenyl-d14	244	8.613	8.613 (0.893)	738295	40.0000	41.0
1 N-Methyl-N-nitrosomethylamine	74	2.478	2.478 (0.626)	173640	40.0000	36.5
2 Pyridine	79	2.512	2.512 (0.634)	205317	40.0000	36.4
4 Aniline	66	3.744	3.744 (0.945)	124092	40.0000	32.3
6 Phenol	94	3.677	3.677 (0.928)	321122	40.0000	34.6
7 bis(2-Chloroethyl) ether	63	3.759	3.759 (0.949)	233955	40.0000	32.3
8 2-Chlorophenol	128	3.826	3.826 (0.966)	273340	40.0000	35.3
203 n-Decane	43	3.812	3.812 (0.962)	380806	40.0000	29.1
9 1,3-Dichlorobenzene	146	3.927	3.927 (0.991)	339842	40.0000	38.3
11 1,4-Dichlorobenzene	146	3.971	3.971 (1.002)	326669	40.0000	37.9
13 1,2-Dichlorobenzene	146	4.077	4.077 (1.029)	313193	40.0000	39.4
14 bis(2-Chloroisopropyl)ether	45	4.101	4.101 (1.035)	461533	40.0000	25.9
12 Benzyl alcohol	108	4.024	4.024 (1.016)	156796	40.0000	31.7
15 o-Cresol	107	4.072	4.072 (1.028)	205300	40.0000	35.2
18 m,p-Cresols	107	4.173	4.173 (1.053)	256318	40.0000	32.8

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	=====	=====	=====	=====	=====	=====
17 N-Nitrosodipropylamine	70	4.192	4.192	(1.058)	195782	40.0000	35.2
19 Hexachloroethane	117	4.303	4.303	(1.086)	131766	40.0000	36.7
21 Nitrobenzene	77	4.332	4.332	(0.898)	269740	40.0000	38.3
22 Isophorone	82	4.486	4.486	(0.930)	568455	40.0000	41.8
23 2-Nitrophenol	139	4.544	4.544	(0.942)	135519	40.0000	38.3
24 2,4-Dimethylphenol	122	4.534	4.534	(0.940)	255801	40.0000	41.1
25 bis(2-Chloroethoxy)methane	93	4.601	4.601	(0.954)	307704	40.0000	40.0
26 2,4-Dichlorophenol	162	4.703	4.703	(0.975)	220944	40.0000	40.4
27 Benzoic acid	105	4.582	4.582	(0.950)	119493	40.0000	38.7
28 1,2,4-Trichlorobenzene	180	4.770	4.770	(0.989)	268091	40.0000	40.5
30 Naphthalene	128	4.837	4.837	(1.003)	736089	40.0000	37.0
204 alpha-Terpineol	59	4.813	4.813	(0.998)	247677	40.0000	37.0
31 4-Chloroaniline	127	4.837	4.837	(1.003)	235865	40.0000	29.1
32 Hexachlorobutadiene	225	4.905	4.905	(1.017)	155200	40.0000	43.1
33 4-Chloro-3-methylphenol	107	5.160	5.160	(1.070)	235517	40.0000	41.1
34 2-Methylnaphthalene	142	5.319	5.319	(1.103)	567751	40.0000	42.2
35 1-Methylnaphthalene	142	5.391	5.391	(1.118)	557476	40.0000	42.8
36 Hexachlorocyclopentadiene	237	5.420	5.420	(0.892)	146339	40.0000	42.7
205 2,3-Dichloroaniline	161	5.512	5.512	(0.907)	295400	40.0000	38.7
37 2,4,6-Trichlorophenol	196	5.502	5.502	(0.906)	179132	40.0000	39.7
38 2,4,5-Trichlorophenol	196	5.531	5.531	(0.910)	186507	40.0000	39.7
40 2-Chloronaphthalene	162	5.670	5.670	(0.933)	520864	40.0000	36.0
42 o-Nitroaniline	65	5.723	5.723	(0.942)	155726	40.0000	33.5
41 m-Nitroaniline	138	6.022	6.022	(0.991)	49482	40.0000	16.8
43 Dimethylphthalate	163	5.834	5.834	(0.960)	661825	40.0000	39.7
44 2,6-Dinitrotoluene	165	5.887	5.887	(0.969)	151505	40.0000	38.6
50 2,4-Dinitrotoluene	165	6.186	6.186	(1.018)	194792	40.0000	38.6
45 Acenaphthylene	152	5.974	5.974	(0.983)	902388	40.0000	40.1
47 Acenaphthene	154	6.099	6.099	(1.004)	546993	40.0000	38.4
48 2,4-Dinitrophenol	184	6.089	6.089	(1.002)	55799	40.0000	40.0
49 Dibenzofuran	168	6.219	6.219	(1.024)	775730	40.0000	39.4
51 Diethylphthalate	149	6.340	6.340	(1.044)	681415	40.0000	40.7
52 4-Nitrophenol	139	6.104	6.104	(1.005)	97169	40.0000	36.4
53 Fluorene	166	6.484	6.484	(1.067)	665592	40.0000	40.2
54 4-Chlorophenylphenylether	204	6.460	6.460	(1.063)	325477	40.0000	39.8
55 2-Methyl-4,6-dinitrophenol	198	6.494	6.494	(0.897)	93806	40.0000	37.4
56 p-Nitroaniline	138	6.484	6.484	(1.067)	66334	40.0000	29.1
133 Diphenylamine	169	6.547	6.547	(0.904)	502475	40.0000	35.8
58 1,2-Diphenylhydrazine	77	6.581	6.581	(0.909)	642199	40.0000	34.0
61 4-Bromophenylphenylether	248	6.845	6.845	(0.945)	202774	40.0000	39.2
63 Hexachlorobenzene	284	6.918	6.918	(0.955)	214634	40.0000	42.2
65 Pentachlorophenol	266	7.067	7.067	(0.976)	125247	40.0000	45.8
206 n-Octadecane	57	7.052	7.052	(0.974)	480806	40.0000	30.8
68 Phenanthrene	178	7.264	7.264	(1.003)	937947	40.0000	36.5
69 Anthracene	178	7.303	7.303	(1.009)	939335	40.0000	36.3
72 Di-n-butylphthalate	149	7.659	7.659	(1.058)	1260868	40.0000	39.7
76 Fluoranthene	202	8.300	8.300	(1.146)	1140399	40.0000	39.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/ul)	ON-COL (ng/ul)
79 Pyrene	202	8.516	8.516	(0.883)	1197958	40.0000	38.8
85 Butylbenzylphthalate	149	9.041	9.041	(0.938)	595403	40.0000	41.3
89 Benzo(a)anthracene	228	9.629	9.629	(0.998)	970137	40.0000	37.4
92 Chrysene	228	9.667	9.667	(1.002)	869616	40.0000	36.4
93 bis(2-Ethylhexyl)phthalate	149	9.566	9.566	(0.992)	807135	40.0000	42.4
94 Di-n-octylphthalate	149	10.216	10.216	(0.903)	1264491	40.0000	43.2
95 Benzo(b)fluoranthene	252	10.794	10.794	(0.954)	931877	40.0000	39.1
96 Benzo(k)fluoranthene	252	10.832	10.832	(0.958)	868053	40.0000	37.9
97 Benzo(a)pyrene	252	11.232	11.232	(0.993)	813889	40.0000	38.4
99 Indeno(1,2,3-cd)pyrene	276	13.062	13.062	(1.155)	745090	40.0000	35.2
100 Dibenzo(a,h)anthracene	278	13.076	13.076	(1.156)	599738	40.0000	35.5
101 Benzo(ghi)perylene	276	13.596	13.596	(1.202)	623769	40.0000	34.5
126 m-Dinitrobenzene	168	5.873	5.873	(0.967)	103264	40.0000	37.9
130 2,3,4,6-Tetrachlorophenol	232	6.301	6.301	(1.037)	175102	40.0000	43.7
143 Dinoseb	211	7.187	7.187	(0.993)	160416	40.0000	41.2
173 Carbazole	167	7.418	7.418	(1.025)	532697	40.0000	28.4
184 p-Benzoquinone	54	3.451	3.451	(0.871)	25643	40.0000	38.0
192 Methoxychlor	227	9.513	9.513	(0.987)	730429	40.0000	42.1
211 p-Toluidine	106	4.231	4.231	(1.068)	162970	40.0000	24.7
210 m-Toluidine	106	4.255	4.255	(1.074)	258288	40.0000	30.3
215 2-Ethoxyethanol	59	2.324	2.324	(0.587)	152111	40.0000	31.0
179 Dibenzo(a,e)pyrene	302	17.675	17.675	(1.563)	394380	40.0000	40.3
26 Phthalic anhydride	104	5.343	5.343	(1.108)	95842	40.0000	37.3
214 1,4-Dinitrobenzene	75	5.815	5.815	(0.957)	104047	40.0000	36.0
216 Methylenebis(2-chloroaniline)	231	9.576	9.576	(0.993)	104161	40.0000	31.1
M 222 Trichlorophenols	196				365639	80.0000	79.4
M 223 Tetrachlorophenols	232				175102	40.0000	43.7
M 224 Benzo(b,k)fluoranthene	252				1799930	80.0000	77.0

Data File: /chem/HSD7.i/s010410.b/s7a0403.d
 Date: 04-JAN-2010 11:41
 Client ID: MECACVS
 Sample Info: IABN091225-12.21CVS115MFI11MECACVS
 Column phase: J&W DB-5MS

Instrument: HSD7.i
 Operator: JHB3
 Column diameter: 0.20



GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 04-JAN-2010 12:07
Lab File ID: s7a0404.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN100103-03.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF	%D / %DRIFT	
209 Benzaldehyde	0.91426	0.87556	0.87556	0.000	-4.23369	Averaged
16 Acetophenone	1.25268	0.96538	0.96538	0.000	-22.93504	Averaged
189 Caprolactam	0.08525	0.09274	0.09274	0.000	8.79336	Averaged
208 1,1'-Biphenyl	1.22037	1.17885	1.17885	0.000	-3.40260	Averaged
207 Atrazine	0.04386	0.04346	0.04346	0.000	-0.90631	Averaged
77 Benzidine	14.90899	40.00000	0.10281	0.000	-62.72753	Linear
90 3,3'-Dichlorobenzidine	0.32314	0.29232	0.29232	0.000	-9.53836	Averaged
102 1,4-Dioxane	0.39191	0.36008	0.36008	0.000	-8.12110	Averaged
103 Methyl methacrylate	0.21768	0.19755	0.19755	0.000	-9.24566	Averaged
104 Ethyl methacrylate	0.84734	0.77655	0.77655	0.000	-8.35498	Averaged
105 2-Picoline	1.27319	1.15297	1.15297	0.000	-9.44195	Averaged
106 N-Nitrosomethylethylamine	0.50185	0.44202	0.44202	0.000	-11.92280	Averaged
107 Methyl methanesulfonate	0.56571	0.49757	0.49757	0.000	-12.04449	Averaged
108 N-Nitrosodiethylamine	0.52257	0.47070	0.47070	0.000	-9.92443	Averaged
109 Ethyl Methanesulfonate	0.71008	0.56833	0.56833	0.000	-19.96297	Averaged
110 Pentachloroethane	0.35164	0.34497	0.34497	0.000	-1.89560	Averaged
111 N-Nitrosopyrrolidine	0.53069	0.47022	0.47022	0.000	-11.39430	Averaged
113 N-Nitrosomorpholine	0.79838	0.59354	0.59354	0.000	-25.65715	Averaged
114 o-Toluidine	1.75483	1.41606	1.41606	0.000	-19.30462	Averaged
115 N-Nitrosopiperidine	0.14648	0.15101	0.15101	0.000	3.09174	Averaged
116 a,a-Dimethylphenethylamine	0.97956	0.77277	0.77277	0.000	-21.11034	Averaged
118 2,6-Dichlorophenol	0.22483	0.24344	0.24344	0.000	8.27590	Averaged
119 Hexachloropropene	0.12226	0.14440	0.14440	0.000	18.10947	Averaged
120 p-Phenylenediamine	30.63434	40.00000	0.17299	0.000	-23.41416	Linear
121 N-Nitrosodi-n-butylamine	0.21962	0.21145	0.21145	0.000	-3.72145	Averaged
122 Safrole	0.20249	0.21676	0.21676	0.000	7.04626	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.45257	0.46818	0.46818	0.000	3.44982	Averaged
124 Isosafrole	0.35719	0.32872	0.32872	0.000	-7.96965	Averaged
125 1,4-Naphthoquinone	0.32292	0.36512	0.36512	0.000	13.06779	Averaged
127 Pentachlorobenzene	0.40007	0.42779	0.42779	0.000	6.92922	Averaged
128 1-Naphthylamine	0.91971	0.86846	0.86846	0.000	-5.57304	Averaged
129 2-Naphthylamine	0.99301	0.87365	0.87365	0.000	-12.02048	Averaged
131 5-Nitro-o-toluidine	0.29348	0.28889	0.28889	0.000	-1.56530	Averaged
136 1,3,5-Trinitrobenzene	38.73861	40.00000	0.13697	0.000	-3.15347	Linear
137 Phenacetin	0.29039	0.25254	0.25254	0.000	-13.03407	Averaged
138 Diallylate	0.23950	0.22654	0.22654	0.000	-5.41399	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD7.i Injection Date: 04-JAN-2010 12:07
Lab File ID: s7a0404.d Init. Cal. Date(s): 30-DEC-2009 31-DEC-2009
Analysis Type: Init. Cal. Times: 09:11 00:58
Lab Sample ID: WBN100103-03.2 Quant Type: ISTD
Method: /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m

COMPOUND	RRF / AMOUNT	RF40	CCAL	MIN	MAX	CURVE TYPE
			RRF40	RRF	%D / %DRIFT	%D / %DRIFT
212 Cis Diallate	0.25521	0.22885	0.22885	0.000	-10.32785	60.00000
213 Trans Diallate	0.28177	0.26651	0.26651	0.000	-5.41399	60.00000
140 4-Aminobiphenyl	0.59215	0.39573	0.39573	0.000	-33.17066	60.00000
141 Pentachloronitrobenzene	0.06915	0.07875	0.07875	0.000	13.87276	60.00000
142 Pronamide	0.26312	0.28821	0.28821	0.000	9.53432	60.00000
146 4-Nitroquinoline-1-oxide	42.02935	40.00000	0.02747	0.000	5.07338	60.00000
147 Methapyrilene	0.51155	0.38527	0.38527	0.000	-24.68677	60.00000
148 Isodrin	0.10826	0.11119	0.11119	0.000	2.70574	60.00000
149 Aramite	0.05353	0.05333	0.05333	0.000	-0.36966	60.00000
150 Kepone	0.08030	0.09838	0.09838	0.000	22.51983	60.00000
151 p-(Dimethylamino)azobenzene	0.30437	0.26965	0.26965	0.000	-11.40771	60.00000
152 Chlorobenzilate	0.27301	0.28726	0.28726	0.000	5.22228	60.00000
153 3,3'-Dimethylbenzidine	0.50900	0.35197	0.35197	0.000	-30.85176	60.00000
155 2-Acetylaminofluorene	0.37564	0.32985	0.32985	0.000	-12.18765	60.00000
157 7,12Dimethylbenz(a)anthrace	0.46508	0.45672	0.45672	0.000	-1.79601	60.00000
158 3-Methylcholanthrene	0.41462	0.41660	0.41660	0.000	0.47780	60.00000

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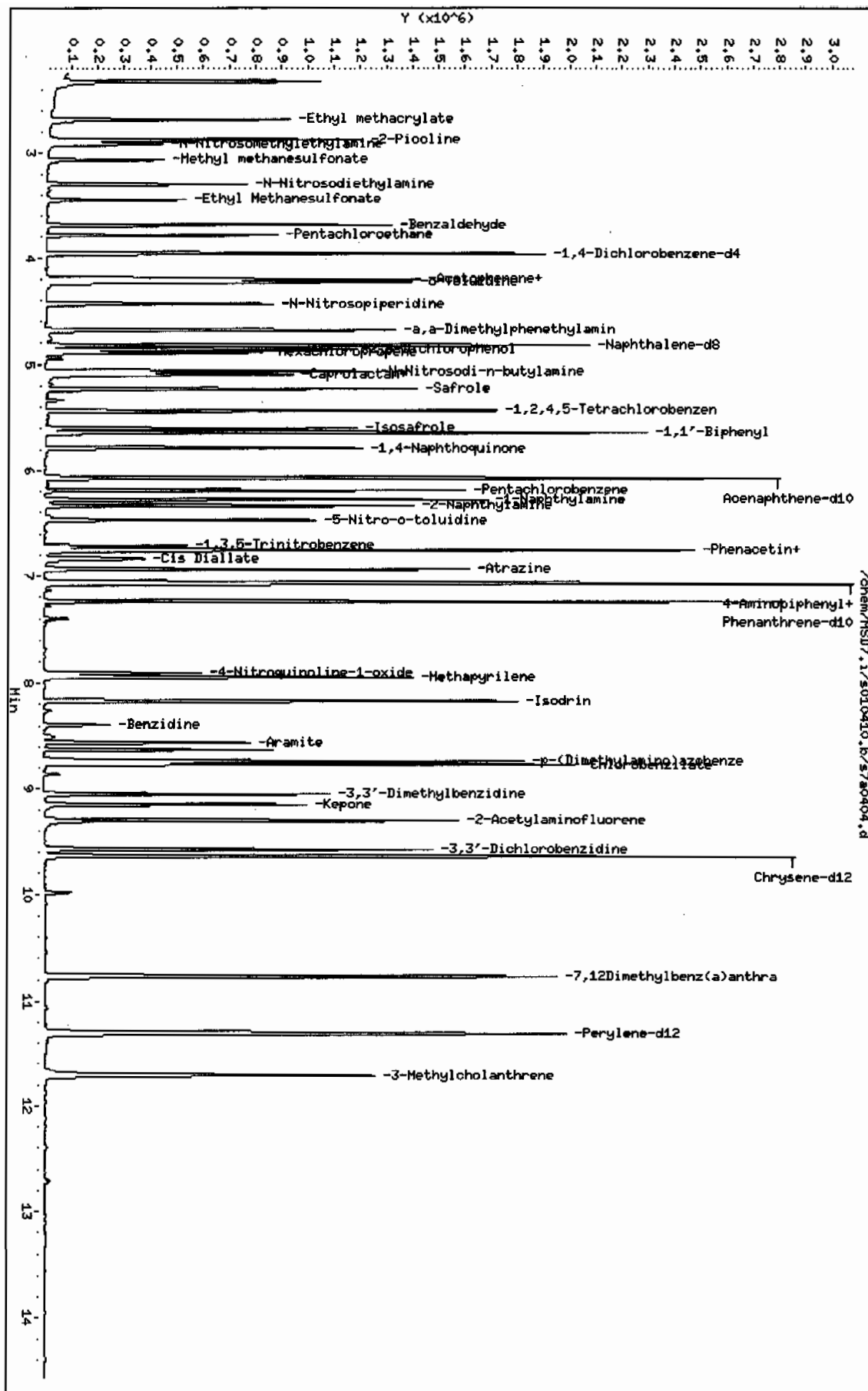
Data file : /chem/MSD7.i/s010410.b/s7a0404.d
Lab Smp Id: WBN100103-03.2 Client Smp ID: APCVS
Inj Date : 04-JAN-2010 12:07
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |WBN100103-03.2|CVS|1|SVMF|1|APCVS
Misc Info : |MSD8270|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 12:28 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.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	ON-COL
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	331361	40.0000
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1073583	40.0000
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	688151	40.0000
* 67 Phenanthrene-d10	188	7.240	7.240	(1.000)	1300874	40.0000
* 91 Chrysene-d12	240	9.638	9.638	(1.000)	1351556	40.0000
* 98 Perylene-d12	264	11.304	11.304	(1.000)	1308412	40.0000
209 Benzaldehyde	77	3.687	3.687	(0.931)	290125	38.3
16 Acetophenone	105	4.207	4.207	(1.062)	319890	30.8
189 Caprolactam	113	5.088	5.088	(1.055)	99566	43.5
208 1,1'-Biphenyl	154	5.637	5.637	(0.929)	811228	38.6
207 Atrazine	173	6.937	6.937	(0.958)	56541	39.6
77 Benzidine	184	8.391	8.391	(0.871)	138950	14.9
90 3,3'-Dichlorobenzidine	252	9.571	9.571	(0.993)	395081	36.2
102 1,4-Dioxane	88	2.333	2.333	(0.589)	119316	36.8
103 Methyl methacrylate	100	2.324	2.324	(0.587)	65462	36.3
104 Ethyl methacrylate	69	2.685	2.685	(0.678)	257317	36.6
105 2-Picoline	93	2.878	2.878	(0.726)	382051	36.2
106 N-Nitrosomethylethylamine	88	2.916	2.916	(0.736)	146467	35.2
107 Methyl methanesulfonate	80	3.065	3.065	(0.774)	164876	35.2
108 N-Nitrosodiethylamine	102	3.297	3.297	(0.832)	155973	36.0
109 Ethyl Methanesulfonate	79	3.446	3.446	(0.870)	188321	32.0
110 Pentachloroethane	167	3.788	3.788	(0.956)	114309	39.2
111 N-Nitrosopyrrolidine	100	4.192	4.192	(1.058)	155812	35.4
113 N-Nitrosomorpholine	56	4.211	4.211	(1.063)	196675	29.7
114 o-Toluidine	106	4.231	4.231	(1.068)	469229	32.3
115 N-Nitrosopiperidine	114	4.433	4.433	(0.919)	162123	41.2

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
=====	=====	==	=====	=====	=====	=====	=====
116 a,a-Dimethylphenethylamine	58	4.678	4.678	(0.970)	829636	40.0000	31.6
118 2,6-Dichlorophenol	162	4.861	4.861	(1.008)	261355	40.0000	43.3
119 Hexachloropropene	213	4.890	4.890	(1.014)	155021	40.0000	47.2
120 p-Phenylenediamine	108	5.097	5.097	(1.057)	185720	40.0000	30.6
121 N-Nitrosodi-n-butylamine	84	5.064	5.064	(1.050)	227009	40.0000	38.5
122 Safrole	162	5.227	5.227	(1.084)	232709	40.0000	42.8
123 1,2,4,5-Tetrachlorobenzene	216	5.435	5.435	(0.895)	322179	40.0000	41.4
124 Isosafrole	162	5.598	5.598	(0.922)	226210	40.0000	36.8
125 1,4-Naphthoquinone	158	5.786	5.786	(0.953)	251258	40.0000	45.2
127 Pentachlorobenzene	250	6.186	6.186	(1.019)	294385	40.0000	42.8
128 1-Naphthylamine	143	6.272	6.272	(1.033)	597630	40.0000	37.8
129 2-Naphthylamine	143	6.330	6.330	(1.043)	601202	40.0000	35.2
131 5-Nitro-o-toluidine	152	6.470	6.470	(1.066)	198799	40.0000	39.4
136 1,3,5-Trinitrobenzene	75	6.715	6.715	(0.928)	178183	40.0000	38.7
137 Phenacetin	108	6.764	6.764	(0.934)	328526	40.0000	34.8
138 Diallate	86	6.754	6.754	(0.933)	294694	40.0000	37.8
212 Cis Diallate	86	6.831	6.831	(0.943)	44656	6.00000	5.4
213 Trans Diallate	86	6.754	6.754	(0.933)	294694	34.0000	32.2
140 4-Aminobiphenyl	169	7.057	7.057	(0.975)	514793	40.0000	26.7
141 Pentachloronitrobenzene	237	7.077	7.077	(0.977)	102438	40.0000	45.5
142 Pronamide	173	7.067	7.067	(0.976)	374925	40.0000	43.8
146 4-Nitroquinoline-1-oxide	101	7.905	7.905	(1.092)	35736	40.0000	42.0
147 Methapyrilene	58	7.943	7.943	(1.097)	501185	40.0000	30.1
148 Isodrin	193	8.165	8.165	(1.128)	144644	40.0000	41.1
149 Aramite	185	8.560	8.560	(1.182)	69378	40.0000	39.8
150 Kepone	272	9.147	9.147	(1.263)	127983	40.0000	49.0
151 p-(Dimethylamino)azobenzene	120	8.738	8.738	(0.907)	364446	40.0000	35.4
152 Chlorobenzilate	251	8.767	8.767	(0.910)	388254	40.0000	42.1
153 3,3'-Dimethylbenzidine	212	9.051	9.051	(0.939)	475704	40.0000	27.6
155 2-Acetylaminofluorene	181	9.296	9.296	(0.965)	445816	40.0000	35.1
157 7,12Dimethylbenz(a)anthracene	256	10.770	10.770	(0.953)	597584	40.0000	39.3
158 3-Methylcholanthrene	268	11.709	11.709	(1.036)	545084	40.0000	40.2

Data File: /chem/MSD7.i/s010410.b/s7a0404.d
 Date : 04-JAN-2010 12:07
 Client ID: APCVS
 Sample Info: I18N400103-03.21CVS111SVHF11APCVS
 Column phase: J&W DB-5MS

Instrument: MSD7.1
 Operator: JHB3
 Column diameter: 0.20



QC Data

Data File: /chem/HSD7.i/s123009.b/s713001.d

Page 1

Date : 30-DEC-2009 08:32

Client ID: DFTPP

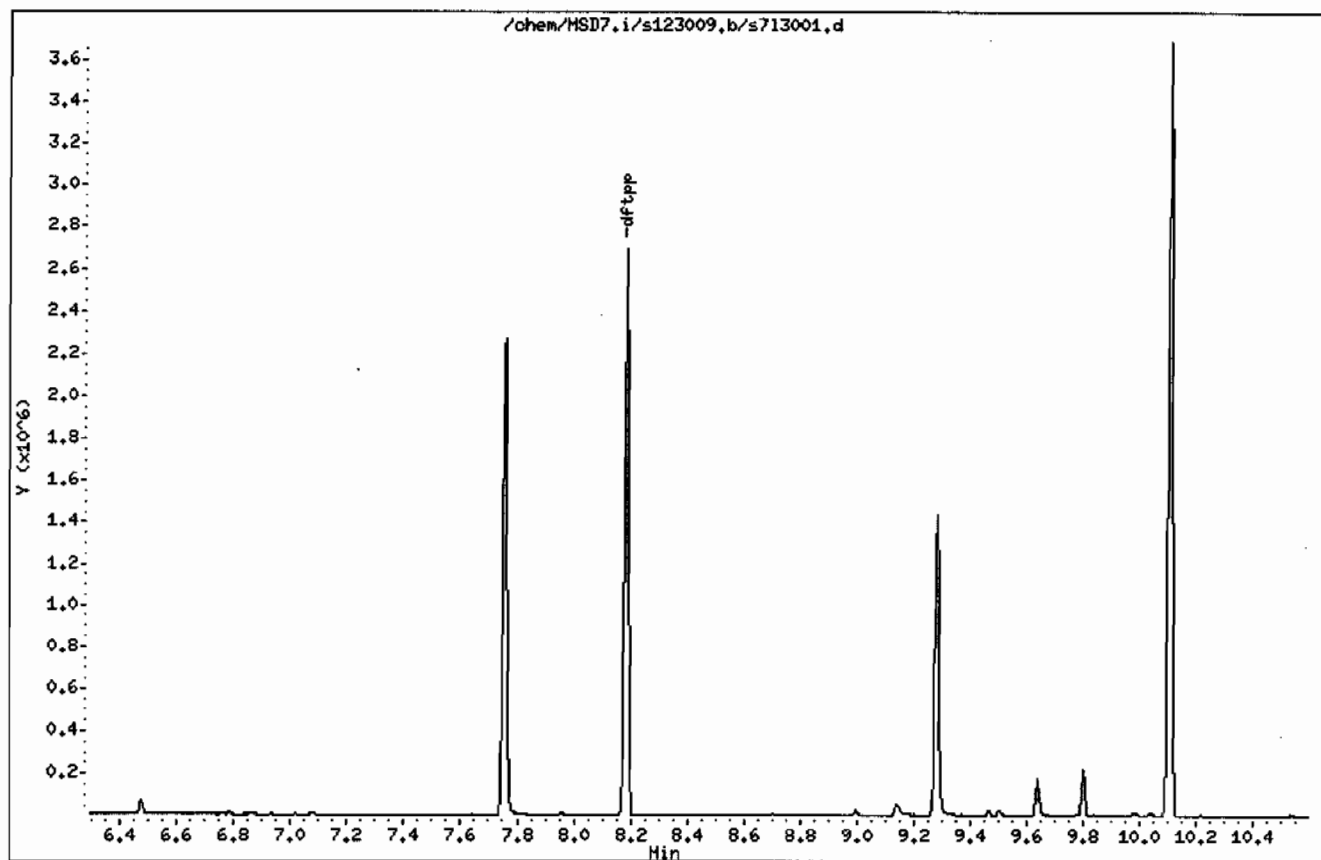
Instrument: HSD7.i

Sample Info: IWBEN091213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 30-DEC-2009 08:32

Client ID: DFTPP

Instrument: MSD7.i

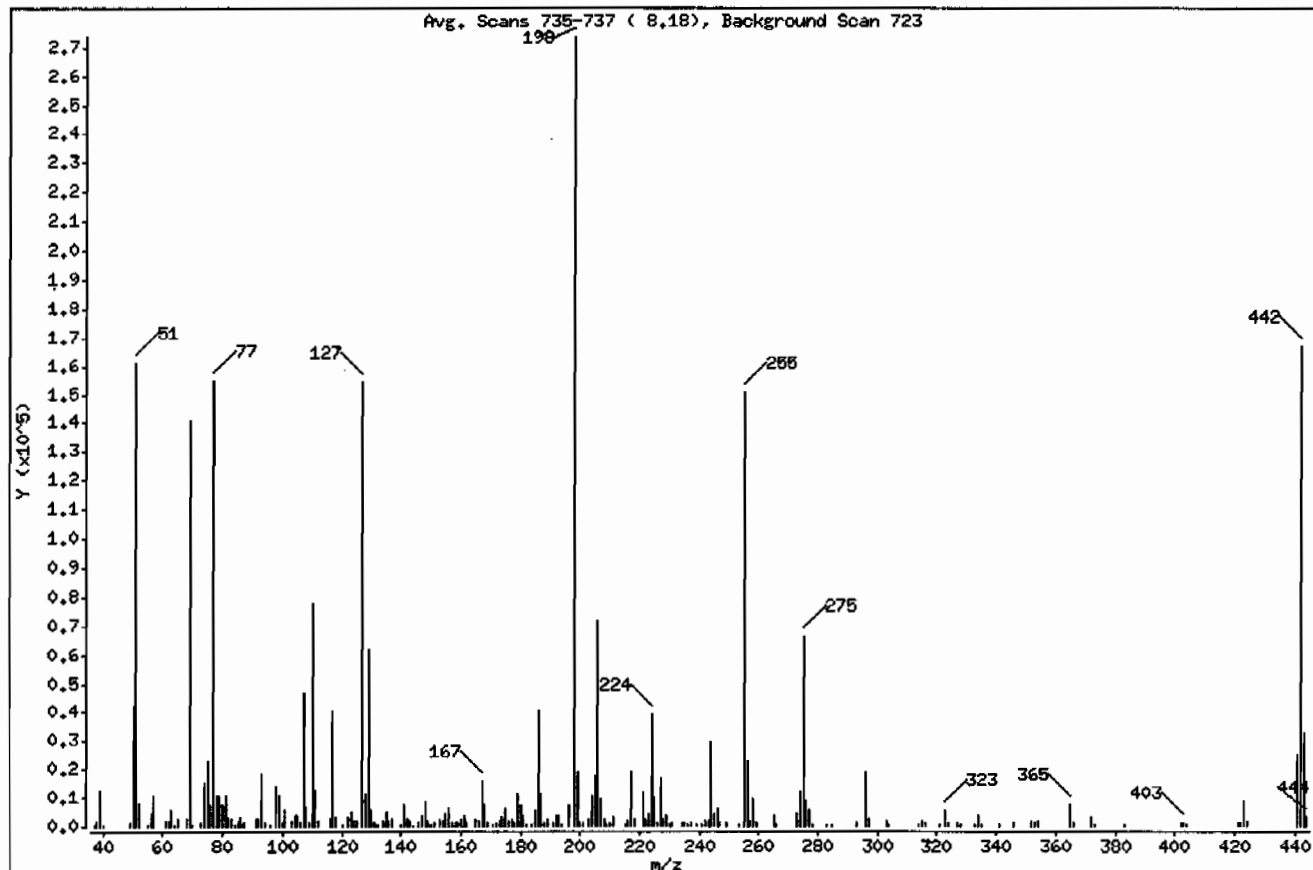
Sample Info: IWB091213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5HS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.81
68	Less than 2.00% of mass 69	0.93 (1.81)
69	Mass 69 relative abundance	51.44
70	Less than 2.00% of mass 69	0.29 (0.56)
127	40.00 - 60.00% of mass 198	56.36
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	24.18
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	9.22
442	Greater than 40.00% of mass 198	60.94
443	17.00 - 23.00% of mass 442	11.90 (19.53)

Date : 30-DEC-2009 08:32

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IWBNO91213-01|DFTPP|1|SVMF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s713001.d

Spectrum: Avg. Scans 735-737 (8.18), Background Scan 723

Location of Maximum: 198.00

Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	727	117.00	40512	182.00	595	255.00	150080
38.00	2179	118.00	2836	184.00	820	256.00	22400
39.00	12271	120.00	554	185.00	5401	257.00	1798
40.00	703	122.00	3301	186.00	39960	258.00	9611
49.00	974	123.00	4724	187.00	11522	259.00	1482
50.00	42112	124.00	2036	188.00	1159	265.00	3804
51.00	160896	125.00	2050	189.00	2740	266.00	578
52.00	8139	127.00	154176	191.00	1006	273.00	4664
55.00	591	128.00	11245	192.00	3503	274.00	12062
56.00	4232	129.00	61344	193.00	3859	275.00	66160
57.00	10553	130.00	5362	194.00	850	276.00	8994
61.00	1931	131.00	1087	196.00	7628	277.00	5623
62.00	2126	132.00	356	198.00	273600	278.00	856
63.00	5565	134.00	1933	199.00	18728	283.00	616
64.00	746	135.00	4814	200.00	1506	285.00	942
65.00	2791	136.00	1965	201.00	1231	293.00	1177
68.00	2545	137.00	2281	203.00	2268	296.00	18672
69.00	140736	140.00	740	204.00	10873	297.00	2669
70.00	784	141.00	7681	205.00	17608	303.00	2134
73.00	1164	142.00	2502	206.00	71776	304.00	554
74.00	15025	143.00	1697	207.00	9614	314.00	941
75.00	22672	144.00	179	208.00	2465	315.00	1871
76.00	7757	146.00	1374	209.00	915	316.00	1034
77.00	155008	147.00	3647	210.00	1110	321.00	399
78.00	10414	148.00	9107	211.00	2909	323.00	5380
79.00	10387	149.00	1976	215.00	833	324.00	1009
80.00	7703	150.00	598	216.00	1737	327.00	1085
81.00	10851	151.00	1200	217.00	19040	328.00	378
82.00	2909	153.00	2457	218.00	2619	333.00	376
83.00	2551	154.00	1907	221.00	12041	334.00	3793
84.00	617	155.00	4264	222.00	2340	335.00	900
85.00	1879	156.00	6243	223.00	4225	341.00	579
86.00	3277	157.00	1177	224.00	38992	346.00	1208
87.00	1404	158.00	1397	225.00	10161	352.00	1730
91.00	2436	159.00	1102	226.00	1092	353.00	1106

Date : 30-DEC-2009 08:32

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IWBNO91213-01IDFTPP11ISVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s713001.d

Spectrum: Avg. Scans 735-737 (8.18), Background Scan 723

Location of Maximum: 198.00

Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	2796	160.00	2281	227.00	17232	364.00	1653
93.00	18344	161.00	3566	228.00	2389	365.00	7811
94.00	1318	162.00	1001	229.00	3506	366.00	990
96.00	857	165.00	2745	230.00	369	372.00	2999
98.00	14094	166.00	2169	231.00	1366	373.00	638
99.00	10486	167.00	15717	234.00	1088	383.00	694
100.00	974	168.00	7435	235.00	1091	402.00	1047
101.00	5918	169.00	1184	236.00	932	403.00	1460
103.00	2074	171.00	733	237.00	1182	404.00	423
104.00	3690	172.00	1337	239.00	753	421.00	1233
105.00	3838	173.00	1655	241.00	843	422.00	1222
106.00	1192	174.00	2859	242.00	2037	423.00	8926
107.00	46824	175.00	5987	243.00	2193	424.00	1684
108.00	6820	176.00	1602	244.00	29576	441.00	25240
109.00	1382	177.00	2710	245.00	4235	442.00	166720
110.00	77576	178.00	954	246.00	6407	443.00	32560
111.00	12274	179.00	11200	247.00	1216	444.00	3081
112.00	1716	180.00	7574	249.00	1137		
116.00	2727	181.00	3499	253.00	701		

Data File: /chem/HSD7.i/s010410.b/s7a0402.d

Page 1

Date : 04-JAN-2010 11:28

Client ID: DFTPP

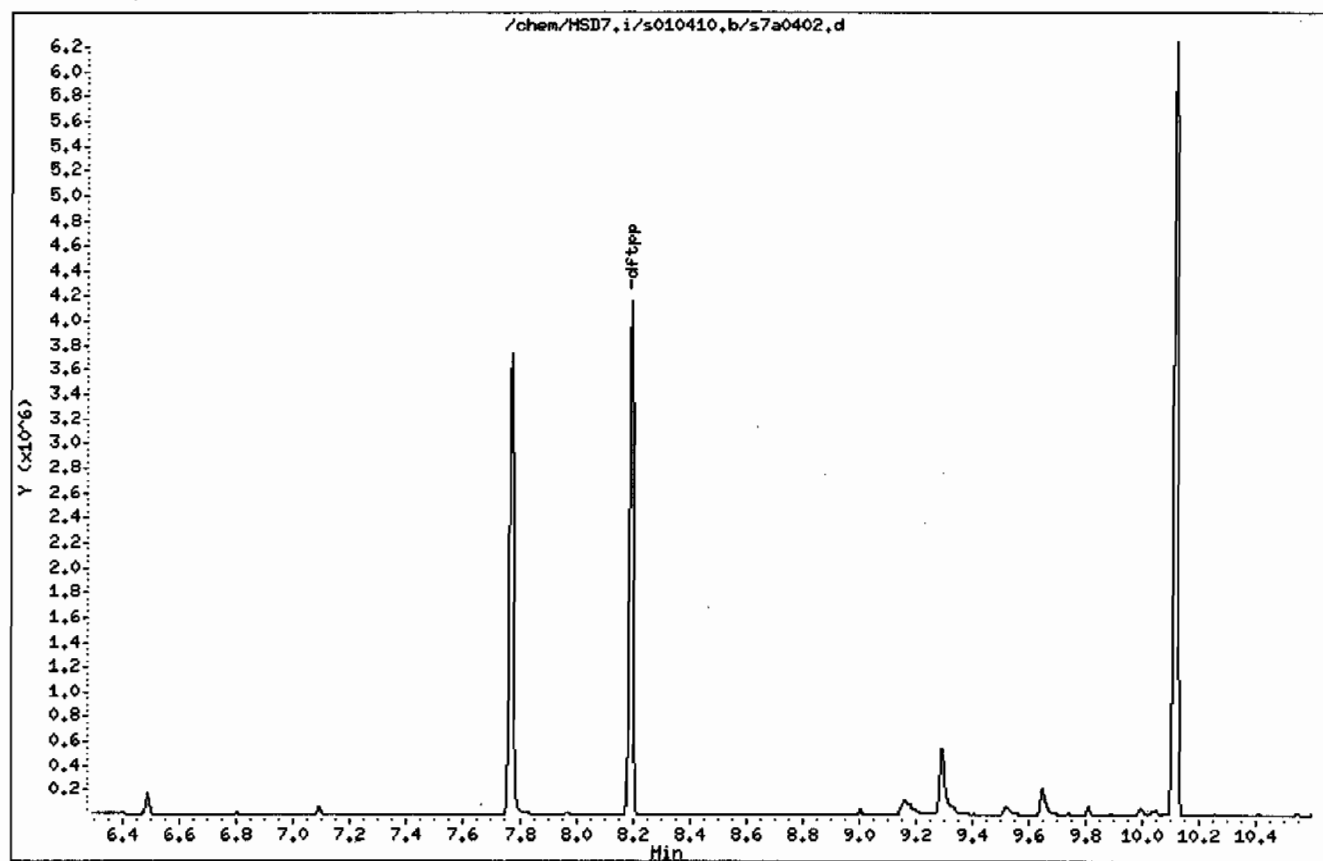
Instrument: HSD7.i

Sample Info: IWB091213-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20



Date : 04-JAN-2010 11:28

Client ID: DFTPP

Instrument: HSD7.1

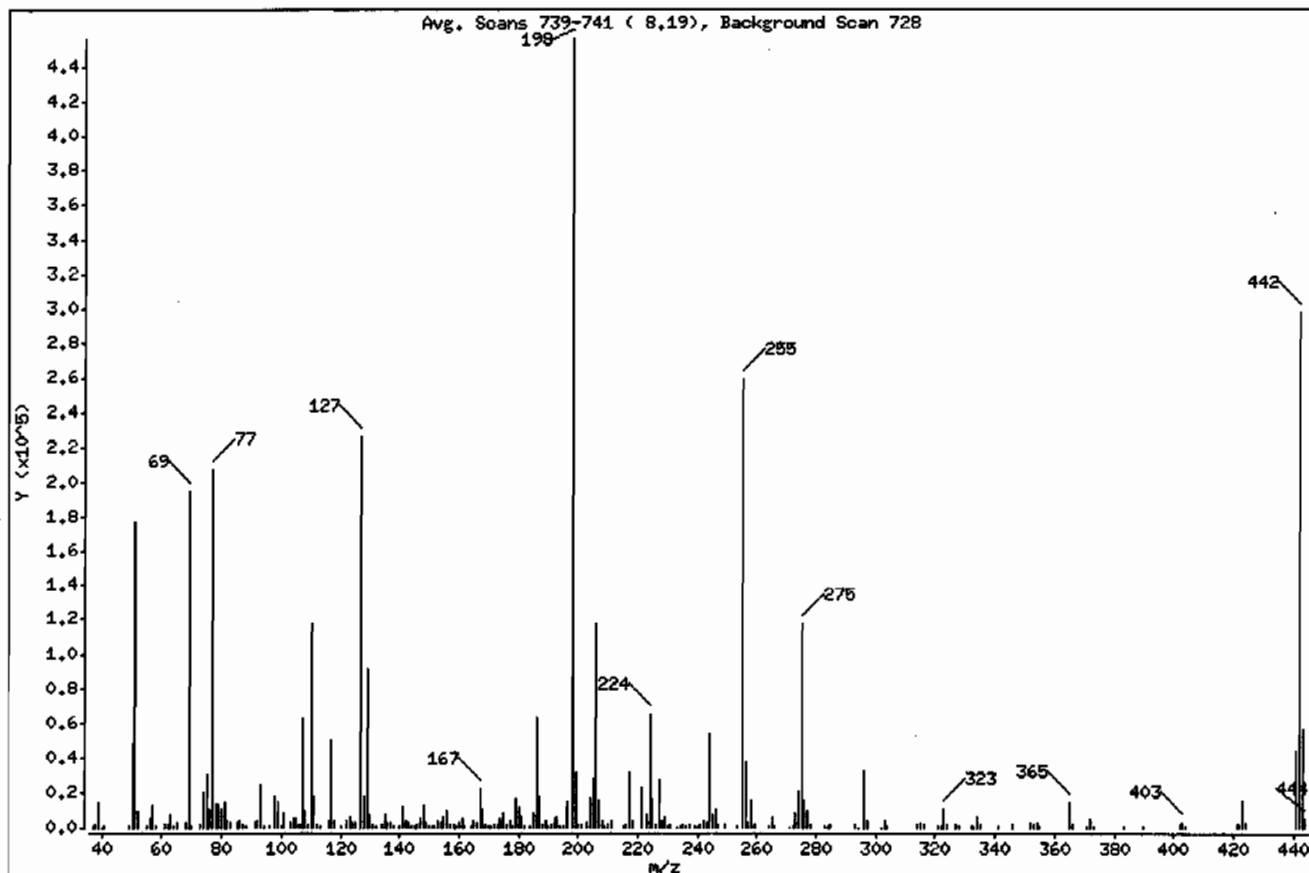
Sample Info: IWBNO91213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.94
68	Less than 2.00% of mass 69	0.78 (1.75)
69	Mass 69 relative abundance	42.69
70	Less than 2.00% of mass 69	0.21 (0.50)
127	40.00 - 60.00% of mass 198	49.60
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	25.69
365	Greater than 1.00% of mass 198	3.11
441	Present, but less than mass 443	9.63
442	Greater than 40.00% of mass 198	65.29
443	17.00 - 23.00% of mass 442	12.39 (18.98)

Date : 04-JAN-2010 11:28

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IMBN091213-01IDFTPP11SVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7a0402.d

Spectrum: Avg. Scans 739-741 (8.19), Background Scan 728

Location of Maximum: 198.00

Number of points: 236

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	764	122.00	4320	187.00	17936	266.00	1139
38.00	2213	123.00	6456	188.00	1808	271.00	369
39.00	14397	124.00	2965	189.00	4076	272.00	751
40.00	297	125.00	2903	190.00	703	273.00	8277
41.00	547	127.00	226112	191.00	1836	274.00	21088
49.00	1556	128.00	17504	192.00	5173	275.00	117080
50.00	48064	129.00	91360	193.00	6021	276.00	15441
51.00	177472	130.00	7400	194.00	1231	277.00	9508
52.00	9234	131.00	1617	195.00	626	278.00	1734
55.00	1038	132.00	849	196.00	14186	283.00	1142
56.00	5425	134.00	2521	198.00	455808	284.00	808
57.00	12707	135.00	7236	199.00	31616	285.00	1854
58.00	566	136.00	2653	200.00	2542	293.00	2343
61.00	2189	137.00	3509	201.00	2179	294.00	386
62.00	2530	138.00	729	203.00	3208	296.00	32400
63.00	7327	140.00	1154	204.00	16348	297.00	4493
64.00	1058	141.00	11123	205.00	28152	302.00	389
65.00	3888	142.00	3794	206.00	117224	303.00	3901
68.00	3412	143.00	2684	207.00	16196	304.00	1008
69.00	194560	144.00	765	208.00	3881	314.00	1611
70.00	967	145.00	692	209.00	1299	315.00	3579
73.00	1650	146.00	2080	210.00	1754	316.00	2094
74.00	19656	147.00	5741	211.00	4456	321.00	982
75.00	30816	148.00	12631	215.00	1226	322.00	616
76.00	10378	149.00	2827	216.00	2304	323.00	10586
77.00	207168	150.00	731	217.00	31528	324.00	1810
78.00	14053	151.00	1385	218.00	3883	327.00	2147
79.00	14101	152.00	874	221.00	23032	328.00	1130
80.00	10716	153.00	3717	223.00	7043	332.00	804
81.00	15043	154.00	2754	224.00	64728	333.00	949
82.00	3762	155.00	6325	225.00	16361	334.00	6621
83.00	3253	156.00	9202	226.00	1735	335.00	1795
85.00	2678	157.00	1909	227.00	26960	341.00	1094
86.00	4427	158.00	2031	228.00	3958	346.00	2366
87.00	1906	159.00	1526	229.00	5850	352.00	3023

Date : 04-JAN-2010 11:28

Client ID: DFTPP

Instrument: MSD7.i

Sample Info: IWBNO91213-01IDFTPP11SVMF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-SMS

Column diameter: 0.20

Data File: s7a0402.d

Spectrum: Avg. Scans 739-741 (8.19), Background Scan 728

Location of Maximum: 198.00

Number of points: 236

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

88.00	691	160.00	3510	230.00	812	353.00	2061
91.00	3650	161.00	5028	231.00	2617	354.00	3196
92.00	3843	162.00	1542	233.00	350	355.00	668
93.00	23720	164.00	568	234.00	1566	365.00	14158
94.00	1510	165.00	4002	235.00	2214	366.00	2023

96.00	1179	166.00	3208	236.00	1285	371.00	767
98.00	17912	167.00	21896	237.00	2233	372.00	5000
99.00	14663	168.00	10417	239.00	1010	373.00	1400
100.00	1198	169.00	2142	240.00	910	383.00	1325
101.00	8240	170.00	713	241.00	1588	390.00	607

103.00	2744	171.00	936	242.00	3712	402.00	1953
104.00	5564	172.00	2078	243.00	3532	403.00	2657
105.00	4896	173.00	2515	244.00	53400	404.00	909
106.00	1685	174.00	4817	245.00	7457	421.00	2090
107.00	63256	175.00	8833	246.00	10578	422.00	2111

108.00	9896	176.00	2603	247.00	2022	423.00	15650
109.00	2147	177.00	4031	249.00	1827	424.00	3371
110.00	117152	178.00	1457	253.00	1115	441.00	43904
111.00	17952	179.00	16632	255.00	258560	442.00	297600
112.00	2259	180.00	11111	256.00	37640	443.00	56496

113.00	751	181.00	5898	257.00	3039	444.00	5503
116.00	3696	182.00	906	258.00	15303		
117.00	50096	184.00	1429	259.00	2537		
118.00	3834	185.00	8160	264.00	632		
120.00	746	186.00	63248	265.00	6033		

Data File: /chem/HSD7.i/s010210.b/s7a0204.d

Page 1

Date : 02-JAN-2010 15:42

Client ID: DFTPP

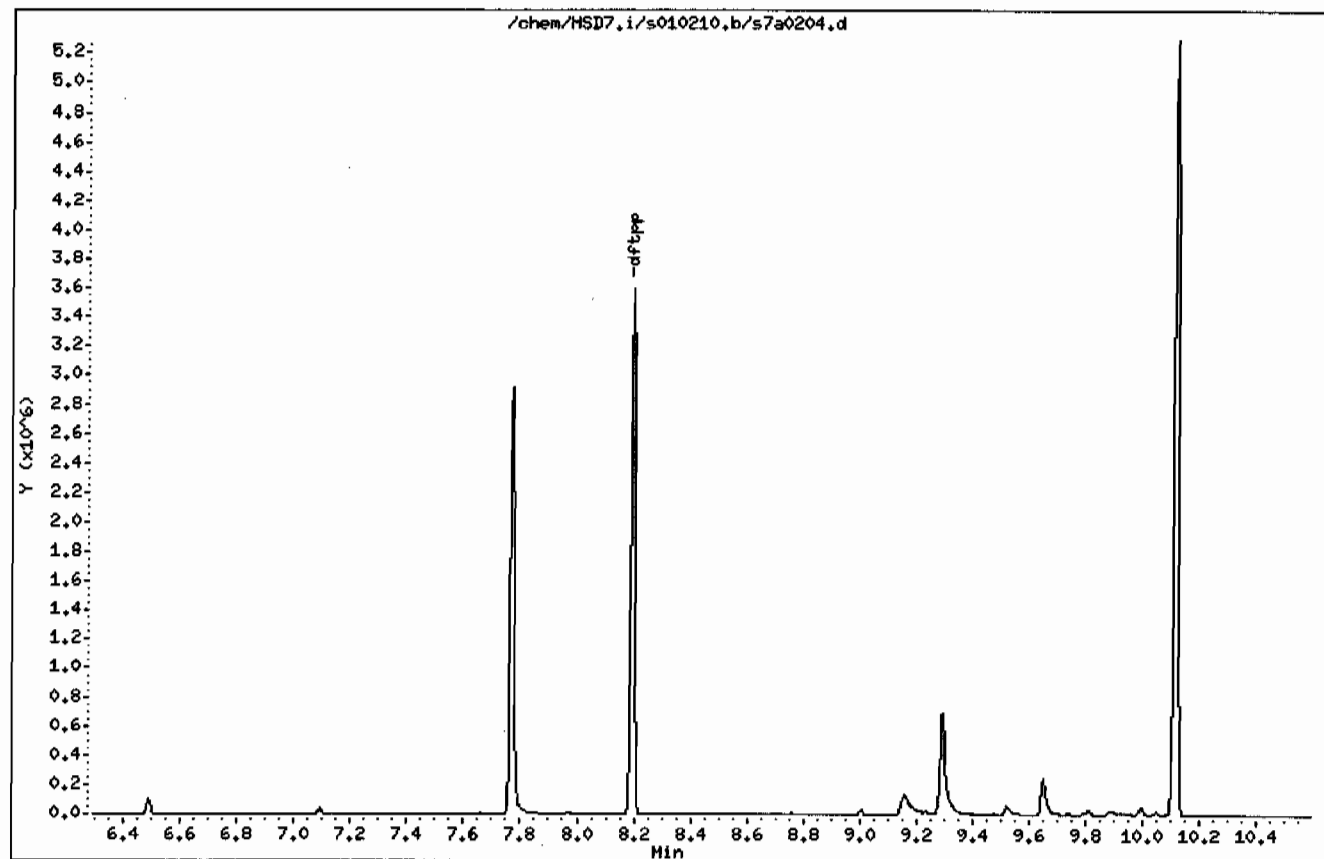
Instrument: HSD7.i

Sample Info: IWB091213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-SMS

Column diameter: 0.20



Date : 02-JAN-2010 15:42

Client ID: DFTPP

Instrument: MSD7.i

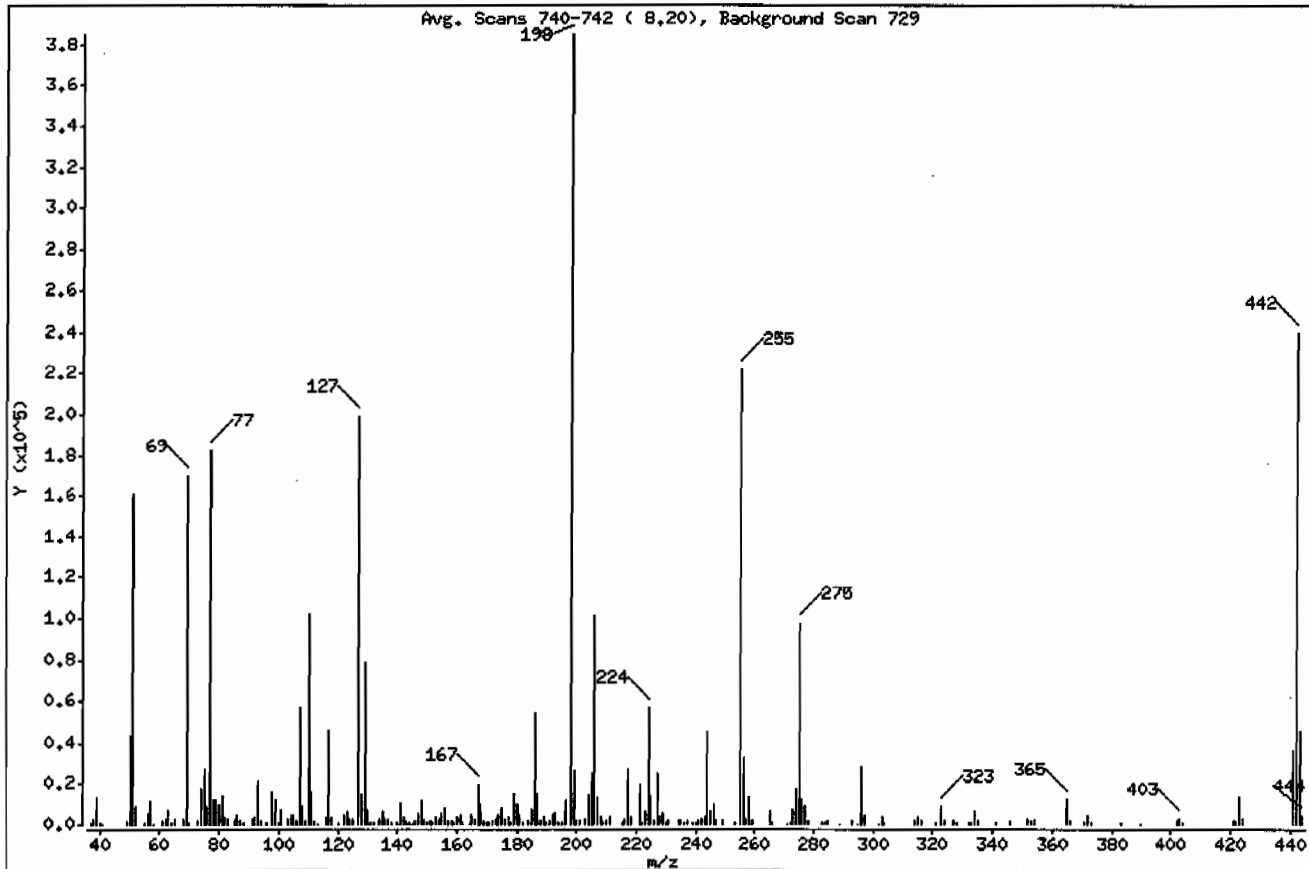
Sample Info: IWB091213-01|DFTPP|1|SVHF|1|DFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5HS

Column diameter: 0.20

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.83
68	Less than 2.00% of mass 69	0.73 (1.66)
69	Mass 69 relative abundance	44.07
70	Less than 2.00% of mass 69	0.19 (0.43)
127	40.00 - 60.00% of mass 198	51.69
197	Less than 1.00% of mass 198	0.00
199	8.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	25.28
365	Greater than 1.00% of mass 198	3.19
441	Present, but less than mass 443	9.46
442	Greater than 40.00% of mass 198	62.33
443	17.00 - 23.00% of mass 442	11.94 (19.16)

Date : 02-JAN-2010 15:42

Client ID: DFTPP

Instrument: HSD7.i

Sample Info: IWBH091213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-SHS

Column diameter: 0.20

Data File: s7a0204.d

Spectrum: Avg. Scans 740-742 (8.20), Background Scan 729

Location of Maximum: 198.00

Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	683	120.00	737	185.00	7427	259.00	2186
38.00	2224	122.00	4018	186.00	53840	265.00	5765
39.00	13020	123.00	6025	187.00	15395	266.00	1053
40.00	756	124.00	2718	188.00	1784	271.00	374
41.00	347	125.00	2385	189.00	3726	272.00	705
49.00	1339	127.00	199040	190.00	600	273.00	7156
50.00	43152	128.00	14776	191.00	1589	274.00	17840
51.00	161088	129.00	78688	192.00	4588	275.00	97344
52.00	8517	130.00	6890	193.00	5316	276.00	12802
55.00	824	131.00	1309	194.00	1025	277.00	8869
56.00	5023	132.00	693	196.00	560	278.00	1388
57.00	11117	134.00	2334	196.00	11710	283.00	1092
58.00	370	135.00	6486	198.00	385088	284.00	721
61.00	2079	136.00	2590	199.00	26240	285.00	1368
62.00	2382	137.00	3020	200.00	2141	289.00	354
63.00	6719	138.00	658	201.00	1816	293.00	1998
64.00	921	140.00	1158	203.00	2873	295.00	191
65.00	3082	141.00	10417	204.00	14579	296.00	28696
68.00	2812	142.00	3176	205.00	24760	297.00	4392
69.00	169728	143.00	2058	206.00	100856	302.00	343
70.00	722	144.00	606	207.00	13681	303.00	3135
73.00	1443	145.00	389	208.00	3653	304.00	934
74.00	17504	146.00	1768	209.00	1169	314.00	1487
75.00	27368	147.00	4883	210.00	1496	315.00	3488
76.00	9221	148.00	11836	211.00	3962	316.00	1911
77.00	182784	149.00	2251	215.00	996	321.00	896
78.00	12726	150.00	600	216.00	2263	323.00	9147
79.00	12636	151.00	1338	217.00	27712	324.00	1894
80.00	9731	152.00	776	218.00	3628	327.00	1693
81.00	14152	153.00	3159	221.00	19048	328.00	878
82.00	3201	154.00	2388	222.00	1060	332.00	619
83.00	2978	155.00	5362	223.00	6234	333.00	922
85.00	2130	156.00	8279	224.00	56216	334.00	5820
86.00	4076	157.00	1706	225.00	14187	335.00	1469
87.00	1654	158.00	1891	226.00	1422	341.00	960

Date : 02-JAN-2010 15:42

Client ID: DFTPP

Instrument: HSD7.i

Sample Info: IWB091213-01IDFTPP11SVHF11IDFTPP

Operator: JMB3

Column phase: Phenomenex ZB-5MS

Column diameter: 0.20

Data File: s7a0204.d

Spectrum: Avg. Scans 740-742 (8.20), Background Scan 729

Location of Maximum: 198.00

Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	645	159.00	1285	227.00	24480	346.00	2076
91.00	2829	160.00	3121	228.00	3535	352.00	2431
92.00	3287	161.00	4676	229.00	5072	353.00	1710
93.00	20816	162.00	1308	230.00	663	354.00	2665
94.00	1534	164.00	400	231.00	2039	365.00	12269
96.00	960	165.00	4024	234.00	1638	366.00	1782
98.00	16222	166.00	3078	235.00	1596	371.00	613
99.00	12297	167.00	19864	236.00	1116	372.00	4301
100.00	1166	168.00	9384	237.00	2005	373.00	1125
101.00	7405	169.00	1652	239.00	934	383.00	1239
103.00	2269	170.00	709	240.00	724	390.00	172
104.00	4666	171.00	863	241.00	1351	402.00	1455
105.00	4579	172.00	1806	242.00	3067	403.00	2276
106.00	1493	173.00	2467	243.00	3184	404.00	813
107.00	56712	174.00	4234	244.00	45200	421.00	1840
108.00	8688	175.00	7733	245.00	6035	422.00	1714
109.00	1575	176.00	2475	246.00	9435	423.00	13146
110.00	101672	177.00	3423	247.00	1647	424.00	2698
111.00	15561	178.00	1283	249.00	1574	441.00	36432
112.00	1993	179.00	15349	253.00	1023	442.00	240064
113.00	381	180.00	10174	255.00	222144	443.00	45992
116.00	3178	181.00	4459	256.00	32712	444.00	4382
117.00	46016	182.00	740	257.00	2652		
118.00	3383	184.00	1360	258.00	13667		

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 1202005230
Client Sample: QC for batch 937094
Client ID: MB for batch 937094
Batch ID: 937095
Run Date: 01/04/2010 12:51
Prep Date: 12/28/2009 21:32
Data File: s7a0406-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine	U	333	ug/kg	66.7	333
108-95-2	Phenol	U	333	ug/kg	66.7	333
95-57-8	2-Chlorophenol	U	333	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene	U	333	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine	U	333	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol	U	333	ug/kg	66.7	333
83-32-9	Acenaphthene	U	33.3	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene	U	333	ug/kg	33.3	333
100-02-7	4-Nitrophenol	U	333	ug/kg	110	333
87-86-5	Pentachlorophenol	U	333	ug/kg	83.3	333
129-00-0	Pyrene	U	33.3	ug/kg	10.0	33.3
110-86-1	Pyridine	U	333	ug/kg	66.7	333
62-53-3	Aniline	U	333	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether	U	333	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene	U	333	ug/kg	66.7	333
100-51-6	Benzyl alcohol	U	333	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene	U	333	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether	U	333	ug/kg	66.7	333
95-48-7	o-Cresol	U	333	ug/kg	66.7	333
65794-96-9	m,p-Cresols	U	333	ug/kg	100	333
67-72-1	Hexachloroethane	U	333	ug/kg	66.7	333
98-95-3	Nitrobenzene	U	333	ug/kg	66.7	333
78-59-1	Isophorone	U	333	ug/kg	66.7	333
88-75-5	2-Nitrophenol	U	333	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol	U	333	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane	U	333	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol	U	333	ug/kg	66.7	333
65-85-0	Benzoic acid	U	667	ug/kg	167	667
91-20-3	Naphthalene	U	33.3	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline	U	333	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene	U	333	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene	U	33.3	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene	U	333	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol	U	333	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol	U	333	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene	U	33.3	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline	U	333	ug/kg	66.7	333
	<i>o</i> -Nitroaniline					
99-09-2	3-Nitroaniline	U	333	ug/kg	66.7	333

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

SDG Number: 10-1036

Matrix: SOIL

Lab Sample ID: 1202005230

Client Sample: QC for batch 937094

Client: LANL010

Project: QC

Client ID: MB for batch 937094

Method: SW846 8270C

SOP Ref: GL-OA-E-009

Batch ID: 937095

Inst: MSD7.I

Dilution: 1

Run Date: 01/04/2010 12:51

Analyst: JMB3

Inj. Vol: .5 uL

Prep Date: 12/28/2009 21:32

Aliquot: 30 g

Final Volume: 1 mL

Data File: s7a0406-1.d

Column: J&W DB-5MS

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate	U	333	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene	U	333	ug/kg	33.3	333
208-96-8	Acenaphthylene	U	33.3	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol	U	667	ug/kg	127	667
132-64-9	Dibenzofuran	U	333	ug/kg	66.7	333
84-66-2	Diethylphthalate	U	333	ug/kg	66.7	333
86-73-7	Fluorene	U	33.3	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether	U	333	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol	U	333	ug/kg	66.7	333
100-01-6	4-Nitroaniline	U	333	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine	U	333	ug/kg	66.7	333
122-66-7	Azobenzene	U	333	ug/kg	66.7	333
	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	Fit	Qual
	Unknown	2.1	6010	ug/kg		J
	Unknown	2.23	134	ug/kg		J

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 1202005230
Client Sample: QC for batch 937094
Client ID: MB for batch 937094
Batch ID: 937095
Run Date: 01/04/2010 12:51
Prep Date: 12/28/2009 21:32
Data File: s7a0406-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.I
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
Tentatively Identified Compound Summary						
CAS No.	Tentatively Identified Compound (TIC)	RT	Estimated	Units	Fit	Qual
	Unknown Aldol Condensate	3	322	ug/kg		J

Data File: /chem/MSD7.i/s010410.b/s7a0406.d
Report Date: 04-Jan-2010 14:40

Page 1

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Data file : /chem/MSD7.i/s010410.b/s7a0406.d
Lab Smp Id: 1202005230 Client Smp ID: SBLK01
Inj Date : 04-JAN-2010 12:51
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202005230|937095|1|SVMF|1|MB
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.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				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.961	3.961	(1.000)	273737	40.0000
* 29 Naphthalene-d8	136	4.818	4.823	(1.000)	1016006	40.0000
* 46 Acenaphthene-d10	164	6.070	6.075	(1.000)	593334	40.0000
* 67 Phenanthrene-d10	188	7.236	7.240	(1.000)	1121045	40.0000
* 91 Chrysene-d12	240	9.634	9.643	(1.000)	1019263	40.0000
* 98 Perylene-d12	264	11.300	11.309	(1.000)	889221	40.0000
\$ 3 2-Fluorophenol	112	3.157	3.152	(0.797)	501113	68.3750 2280
\$ 5 Phenol-d5	99	3.672	3.667	(0.927)	629017	69.2245 2310
\$ 20 Nitrobenzene-d5	82	4.318	4.317	(0.896)	297265	38.1140 1270
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	628775	39.1680 1300
\$ 60 2,4,6-Tribromophenol	329	6.663	6.667	(1.098)	183424	91.6862 3060
\$ 81 p-Terphenyl-d14	244	8.613	8.613	(0.894)	826300	48.3452 1610

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Data file : /chem/MSD7.i/s010410.b/s7a0406.d
Lab Smp Id: 1202005230 Client Smp ID: SBLK01
Inj Date : 04-JAN-2010 12:51
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202005230|937095|1|SVMF|1|MB
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010410.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 14:38 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.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

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 10 1,4-Dichlorobenzene-d4	3.961	1645398	40.000

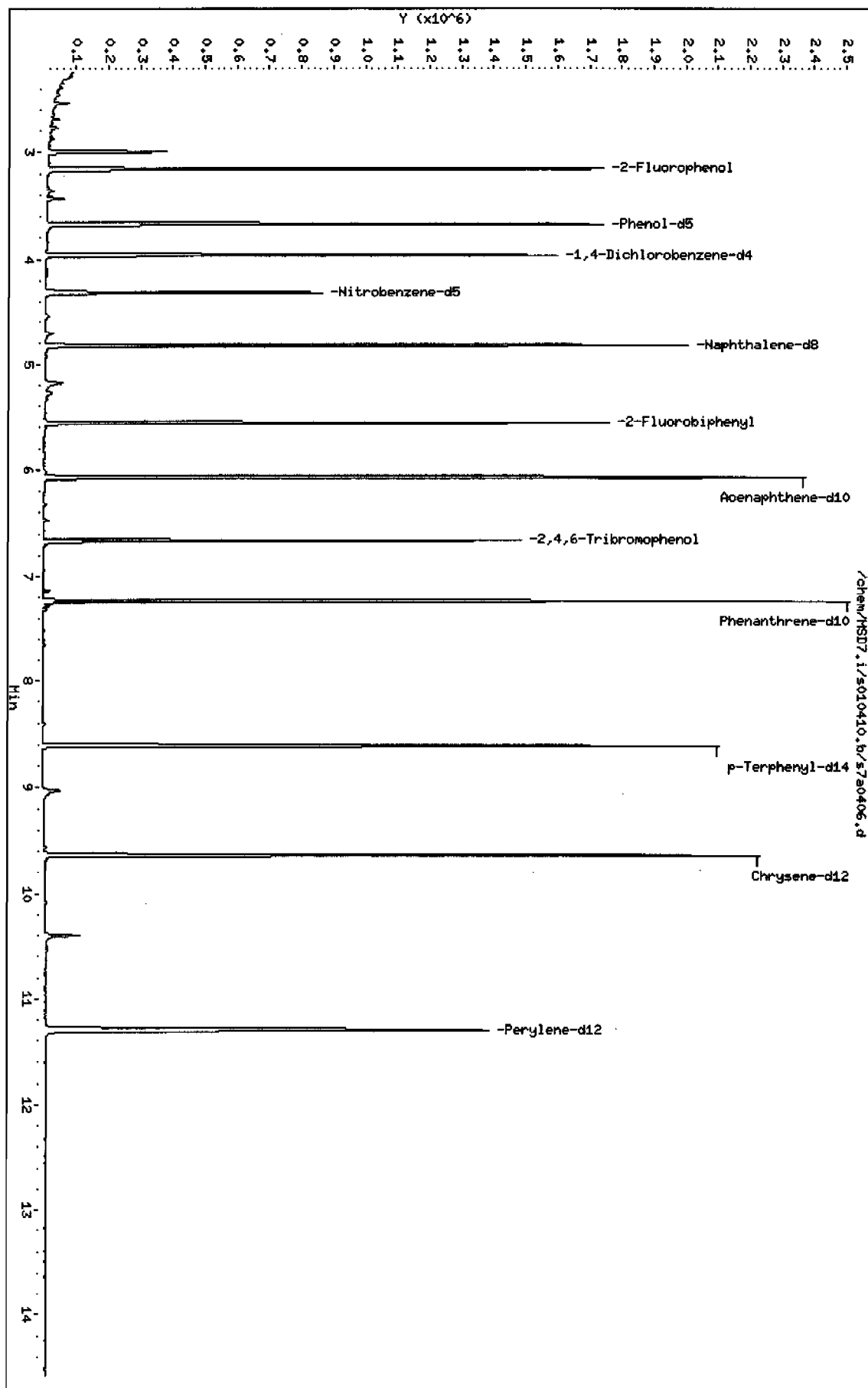
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RT	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown				CAS #:			
2.098	7421146	180.409733	6010	0		0	10
Unknown				CAS #:			
2.228	165492	4.02314910	134	0		0	10

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ng/ul)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
2.998	397154	9.65490407	322	0	0	10	

Unknown Aldol Condensate CAS #:

Data File: /chem/HSD7.i/s010410.b/s7a0406.d
 Date : 04-JAN-2010 12:51
 Client ID: SBLK01
 Sample Info: 112020052301937095111SUMF111MB
 Volume Injected (uL): 0.5
 Column Phase: 3uM DB-SMS

Instrument: MSD7.1
 Operator: JHB3
 Column diameter: 0.20



Date : 04-JAN-2010 12:51

Client ID: SBLK01

Instrument: MSD7.i

Sample Info: I12020052301937095111SVHF111HB

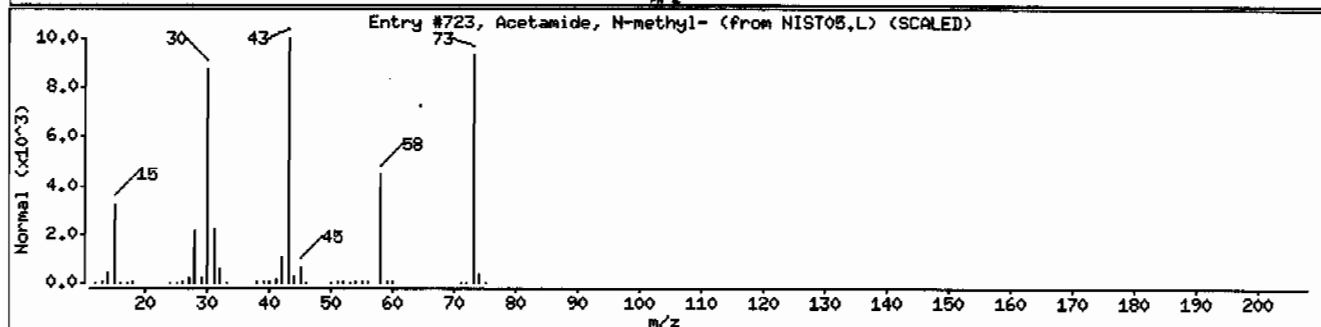
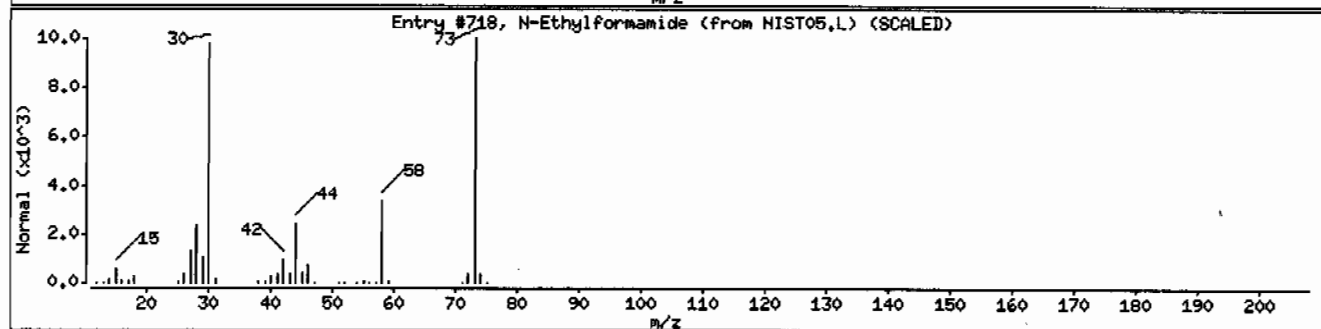
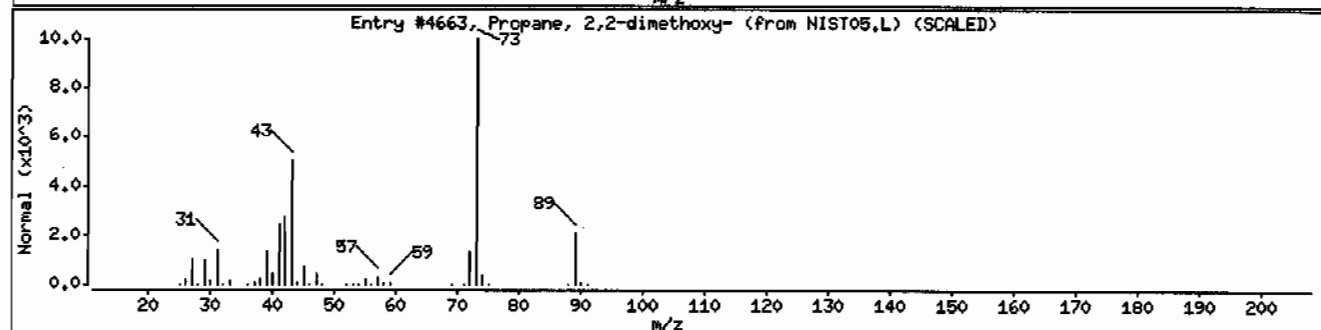
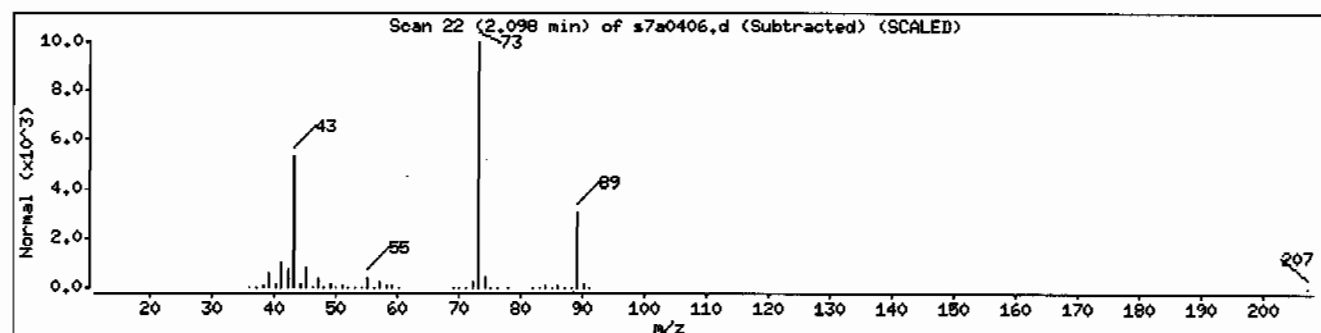
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 2,2-dimethoxy-	77-76-9	NIST05.L	4663	64	C5H12O2	104
N-Ethylformamide	627-46-2	NIST05.L	718	9	C3H7NO	73
Acetamide, N-methyl-	79-16-3	NIST05.L	723	9	C3H7NO	73



Date : 04-JAN-2010 12:51

Client ID: SBLK01

Instrument: HSD7.i

Sample Info: I1202005230193709511|SVMF|11MB

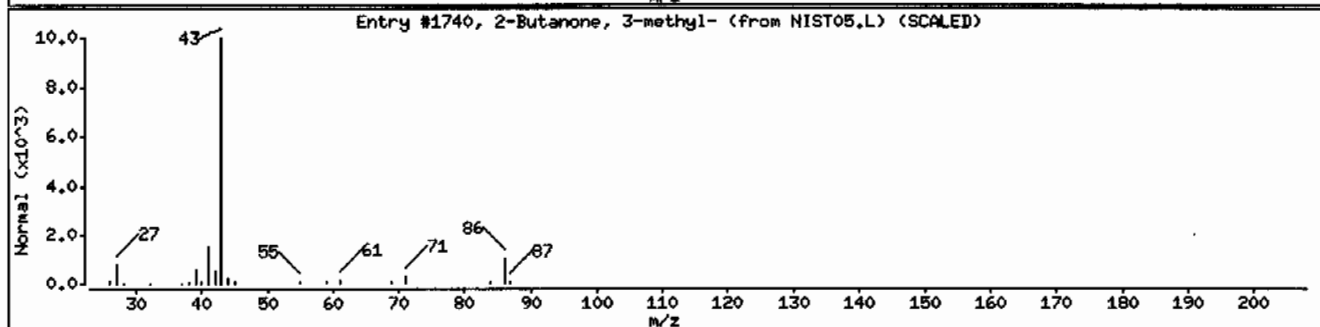
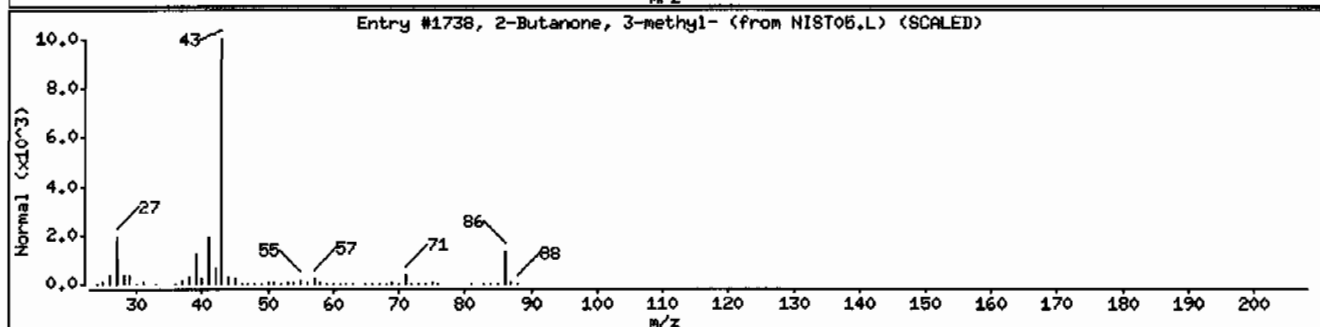
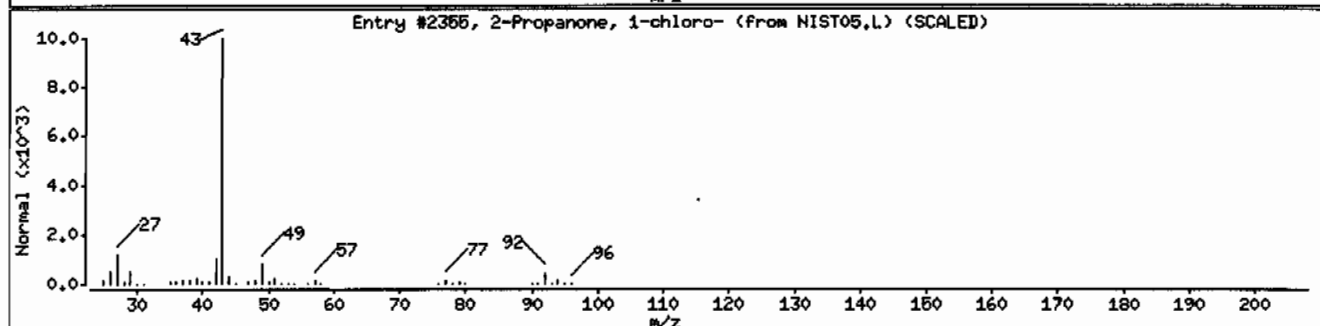
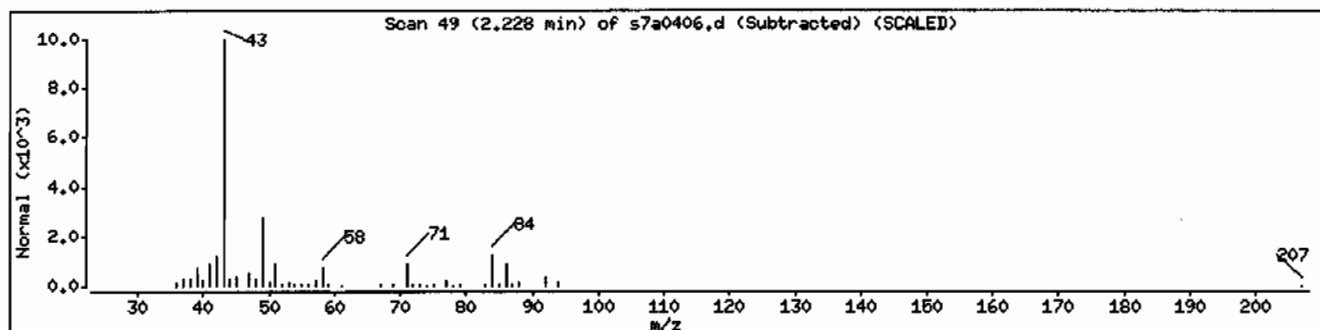
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanone, 1-chloro-	78-95-5	NIST05.L	2355	18	C3H5ClO	92
2-Butanone, 3-methyl-	563-80-4	NIST05.L	1738	14	C5H10O	86
2-Butanone, 3-methyl-	563-80-4	NIST05.L	1740	9	C5H10O	86



Date : 04-JAN-2010 12:51

Client ID: SBLK01

Instrument: MSD7.i

Sample Info: I1202005230193709511SVHF11MB

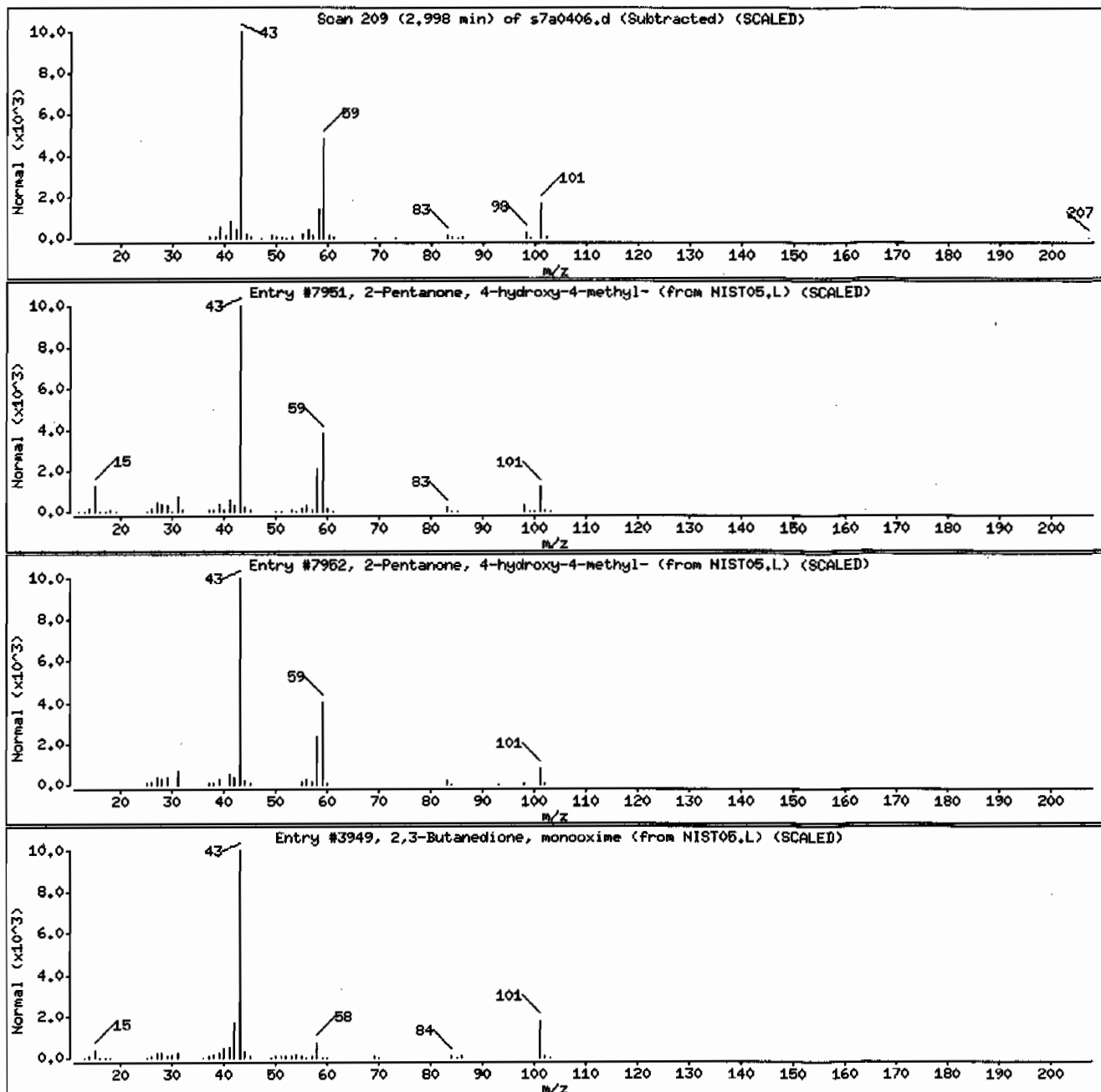
Volume Injected (uL): 0.5

Operator: JMB3

Column phase: J&W DB-5MS

Column diameter: 0.20

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7961	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7962	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3949	16	C4H7NO2	101



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

SDG Number: 10-1036
Lab Sample ID: 1202005231
Client Sample: QC for batch 937094
Client ID: LCS for batch 937094
Batch ID: 937095
Run Date: 01/02/2010 18:38
Prep Date: 12/28/2009 21:32
Data File: s7a0209-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.1
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
62-75-9	N-Methyl-N-nitrosomethylamine		1040	ug/kg	66.7	333
108-95-2	Phenol		1140	ug/kg	66.7	333
95-57-8	2-Chlorophenol		1110	ug/kg	66.7	333
106-46-7	1,4-Dichlorobenzene		1140	ug/kg	66.7	333
621-64-7	N-Nitrosodipropylamine		1090	ug/kg	66.7	333
59-50-7	4-Chloro-3-methylphenol		1260	ug/kg	66.7	333
83-32-9	Acenaphthene		1170	ug/kg	11.0	33.3
121-14-2	2,4-Dinitrotoluene		1270	ug/kg	33.3	333
100-02-7	4-Nitrophenol		1440	ug/kg	110	333
87-86-5	Pentachlorophenol		1430	ug/kg	83.3	333
129-00-0	Pyrene		1150	ug/kg	10.0	33.3
110-86-1	Pyridine		1360	ug/kg	66.7	333
62-53-3	Aniline		899	ug/kg	100	333
111-44-4	bis(2-Chloroethyl) ether		965	ug/kg	66.7	333
541-73-1	1,3-Dichlorobenzene		1140	ug/kg	66.7	333
100-51-6	Benzyl alcohol		1310	ug/kg	100	333
95-50-1	1,2-Dichlorobenzene		1190	ug/kg	66.7	333
108-60-1	bis(2-Chloroisopropyl)ether		848	ug/kg	66.7	333
95-48-7	o-Cresol		1100	ug/kg	66.7	333
65794-96-9	m,p-Cresols		1210	ug/kg	100	333
67-72-1	Hexachloroethane		1070	ug/kg	66.7	333
98-95-3	Nitrobenzene		1200	ug/kg	66.7	333
78-59-1	Isophorone		1200	ug/kg	66.7	333
88-75-5	2-Nitrophenol		1080	ug/kg	66.7	333
105-67-9	2,4-Dimethylphenol		1210	ug/kg	117	333
111-91-1	bis(2-Chloroethoxy)methane		1120	ug/kg	66.7	333
120-83-2	2,4-Dichlorophenol		1230	ug/kg	66.7	333
65-85-0	Benzoic acid		2030	ug/kg	167	667
91-20-3	Naphthalene		1170	ug/kg	10.0	33.3
106-47-8	4-Chloroaniline		949	ug/kg	66.7	333
87-68-3	Hexachlorobutadiene		1360	ug/kg	66.7	333
91-57-6	2-Methylnaphthalene		1260	ug/kg	6.67	33.3
77-47-4	Hexachlorocyclopentadiene		1480	ug/kg	66.7	333
88-06-2	2,4,6-Trichlorophenol		1250	ug/kg	66.7	333
95-95-4	2,4,5-Trichlorophenol		1380	ug/kg	66.7	333
91-58-7	2-Chloronaphthalene		1150	ug/kg	11.0	33.3
88-74-4	2-Nitroaniline		1120	ug/kg	66.7	333
	o-Nitroaniline					
99-09-2	3-Nitroaniline		1300	ug/kg	66.7	333

Semi-Volatile
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 1202005231
Client Sample: QC for batch 937094
Client ID: LCS for batch 937094
Batch ID: 937095
Run Date: 01/02/2010 18:38
Prep Date: 12/28/2009 21:32
Data File: s7a0209-1.d

Client: LANL010
Method: SW846 8270C
Inst: MSD7.J
Analyst: JMB3
Aliquot: 30 g
Column: J&W DB-5MS

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
	<i>m</i> -Nitroaniline					
131-11-3	Dimethylphthalate		1280	ug/kg	66.7	333
606-20-2	2,6-Dinitrotoluene		1210	ug/kg	33.3	333
208-96-8	Acenaphthylene		1270	ug/kg	10.0	33.3
51-28-5	2,4-Dinitrophenol		1080	ug/kg	127	667
132-64-9	Dibenzofuran		1520	ug/kg	66.7	333
84-66-2	Diethylphthalate		1350	ug/kg	66.7	333
86-73-7	Fluorene		1270	ug/kg	10.0	33.3
7005-72-3	4-Chlorophenylphenylether		1290	ug/kg	66.7	333
534-52-1	2-Methyl-4,6-dinitrophenol		1020	ug/kg	66.7	333
100-01-6	4-Nitroaniline		1700	ug/kg	100	333
	<i>p</i> -Nitroaniline					
122-39-4	Diphenylamine		1290	ug/kg	66.7	333
122-66-7	Azobenzene		1140	ug/kg	66.7	333
	1,2-Diphenylhydrazine					
101-55-3	4-Bromophenylphenylether		1240	ug/kg	66.7	333
118-74-1	Hexachlorobenzene		1350	ug/kg	66.7	333
85-01-8	Phenanthrene		1200	ug/kg	10.0	33.3
120-12-7	Anthracene		1210	ug/kg	6.67	33.3
84-74-2	Di-n-butylphthalate		1330	ug/kg	66.7	333
206-44-0	Fluoranthene		1350	ug/kg	10.0	33.3
85-68-7	Butylbenzylphthalate		1200	ug/kg	66.7	333
56-55-3	Benzo(a)anthracene		1250	ug/kg	10.0	33.3
91-94-1	3,3'-Dichlorobenzidine		1120	ug/kg	100	333
218-01-9	Chrysene		1320	ug/kg	10.0	33.3
117-81-7	bis(2-Ethylhexyl)phthalate		1250	ug/kg	66.7	333
117-84-0	Di-n-octylphthalate		1260	ug/kg	66.7	333
205-99-2	Benzo(b)fluoranthene		1390	ug/kg	10.0	33.3
207-08-9	Benzo(k)fluoranthene		1360	ug/kg	10.0	33.3
50-32-8	Benzo(a)pyrene		1370	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		1320	ug/kg	10.0	33.3
191-24-2	Benzo(ghi)perylene		1200	ug/kg	10.0	33.3
120-82-1	1,2,4-Trichlorobenzene		1200	ug/kg	66.7	333

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Data file : /chem/MSD7.i/s010210.b/s7a0209.d
Lab Smp Id: 1202005231 Client Smp ID: SBLK01LCS
Inj Date : 02-JAN-2010 18:38
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202005231|937095|1|SVMF|1|LCS
Misc Info : |MSD8270_S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-1036.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.00000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN	FINAL
					(ng/ul)	(ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	269967	40.0000
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1022970	40.0000
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	568992	40.0000
* 67 Phenanthrene-d10	188	7.240	7.236	(1.000)	1109679	40.0000
* 91 Chrysene-d12	240	9.638	9.638	(1.000)	1155468	40.0000
* 98 Perylene-d12	264	11.295	11.295	(1.000)	1018181	40.0000
\$ 3 2-Fluorophenol	112	3.167	3.152	(0.798)	486273	67.2766
\$ 5 Phenol-d5	99	3.677	3.672	(0.927)	587635	65.5734
\$ 20 Nitrobenzene-d5	82	4.322	4.322	(0.896)	291240	37.0873
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	560072	36.3809
\$ 60 2,4,6-Tribromophenol	329	6.667	6.667	(1.098)	180689	94.1830
\$ 81 p-Terphenyl-d14	244	8.613	8.608	(0.894)	813348	41.9779

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.687	3.677	(0.930)	308132	34.1221	1140
8 2-Chlorophenol	128	3.831	3.826	(0.966)	249600	33.2008	1110
11 1,4-Dichlorobenzene	146	3.976	3.976	(1.002)	286911	34.2087	1140
17 N-Nitrosodipropylamine	70	4.197	4.192	(1.058)	176354	32.6075	1090 (Q)
28 1,2,4-Trichlorobenzene	180	4.775	4.770	(0.990)	245864	35.8796	1200
33 4-Chloro-3-methylphenol	107	5.165	5.155	(1.071)	223355	37.6694	1260
47 Acenaphthene	154	6.099	6.094	(1.005)	479051	35.2254	1170
50 2,4-Dinitrotoluene	165	6.181	6.181	(1.018)	183291	38.0124	1270
52 4-Nitrophenol	139	6.109	6.099	(1.006)	111900	43.1077	1440
65 Pentachlorophenol	266	7.067	7.062	(0.976)	113070	42.9591	1430
79 Pyrene	202	8.512	8.512	(0.883)	1144515	34.4711	1150
2 Pyridine	79	2.536	2.517	(0.639)	223584	40.7308	1360
4 Aniline	66	3.749	3.744	(0.945)	100792	26.9571	898 (Q)
7 bis(2-Chloroethyl) ether	63	3.764	3.759	(0.949)	203577	28.9386	965 (Q)
9 1,3-Dichlorobenzene	146	3.932	3.927	(0.992)	293478	34.0574	1140
12 Benzyl alcohol	108	4.028	4.024	(1.016)	188298	39.1831	1310
13 1,2-Dichlorobenzene	146	4.077	4.077	(1.028)	276812	35.8448	1190
14 bis(2-Chloroisopropyl) ether	45	4.106	4.101	(1.035)	440525	25.4306	848
15 o-Cresol	107	4.077	4.072	(1.028)	187682	33.1065	1100
18 m,p-Cresols	107	4.173	4.168	(1.052)	274933	36.1904	1210
19 Hexachloroethane	117	4.308	4.308	(1.086)	111909	32.0879	1070
21 Nitrobenzene	77	4.337	4.332	(0.899)	262320	36.0153	1200
22 Isophorone	82	4.486	4.486	(0.930)	506168	35.9141	1200
23 2-Nitrophenol	139	4.549	4.549	(0.943)	119140	32.5477	1080
24 2,4-Dimethylphenol	122	4.539	4.534	(0.941)	234257	36.3382	1210
25 bis(2-Chloroethoxy) methane	93	4.606	4.602	(0.955)	267035	33.5414	1120
26 2,4-Dichlorophenol	162	4.707	4.703	(0.976)	208588	36.8358	1230
27 Benzoic acid	105	4.592	4.573	(0.952)	220552	60.8694	2030
30 Naphthalene	128	4.837	4.838	(1.003)	722449	35.1267	1170
31 4-Chloroaniline	127	4.852	4.838	(1.006)	238620	28.4551	948
32 Hexachlorobutadiene	225	4.905	4.905	(1.017)	152070	40.8364	1360
34 2-Methylnaphthalene	142	5.319	5.319	(1.103)	526490	37.7811	1260
36 Hexachlorocyclopentadiene	237	5.420	5.420	(0.893)	144802	44.2801	1480
37 2,4,6-Trichlorophenol	196	5.502	5.502	(0.906)	161208	37.4486	1250
38 2,4,5-Trichlorophenol	196	5.531	5.526	(0.911)	186077	41.4517	1380
40 2-Chloronaphthalene	162	5.670	5.666	(0.934)	476898	34.5440	1150
42 o-Nitroaniline	65	5.723	5.724	(0.943)	149713	33.7236	1120
41 m-Nitroaniline	138	6.017	6.022	(0.991)	109770	38.9579	1300
43 Dimethylphthalate	163	5.829	5.830	(0.960)	609258	38.2652	1280
44 2,6-Dinitrotoluene	165	5.887	5.882	(0.970)	136504	36.4416	1210
45 Acenaphthylene	152	5.974	5.974	(0.984)	820057	38.1420	1270
48 2,4-Dinitrophenol	184	6.089	6.090	(1.003)	38608	32.5395	1080 (Q)
49 Dibenzofuran	168	6.219	6.220	(1.025)	856395	45.6088	1520
51 Diethylphthalate	149	6.340	6.340	(1.044)	645693	40.3698	1340
53 Fluorene	166	6.479	6.480	(1.067)	603474	38.1583	1270
54 4-Chlorophenylphenylether	204	6.455	6.455	(1.063)	302678	38.7490	1290
55 2-Methyl-4,6-dinitrophenol	198	6.494	6.494	(0.897)	70339	30.7100	1020

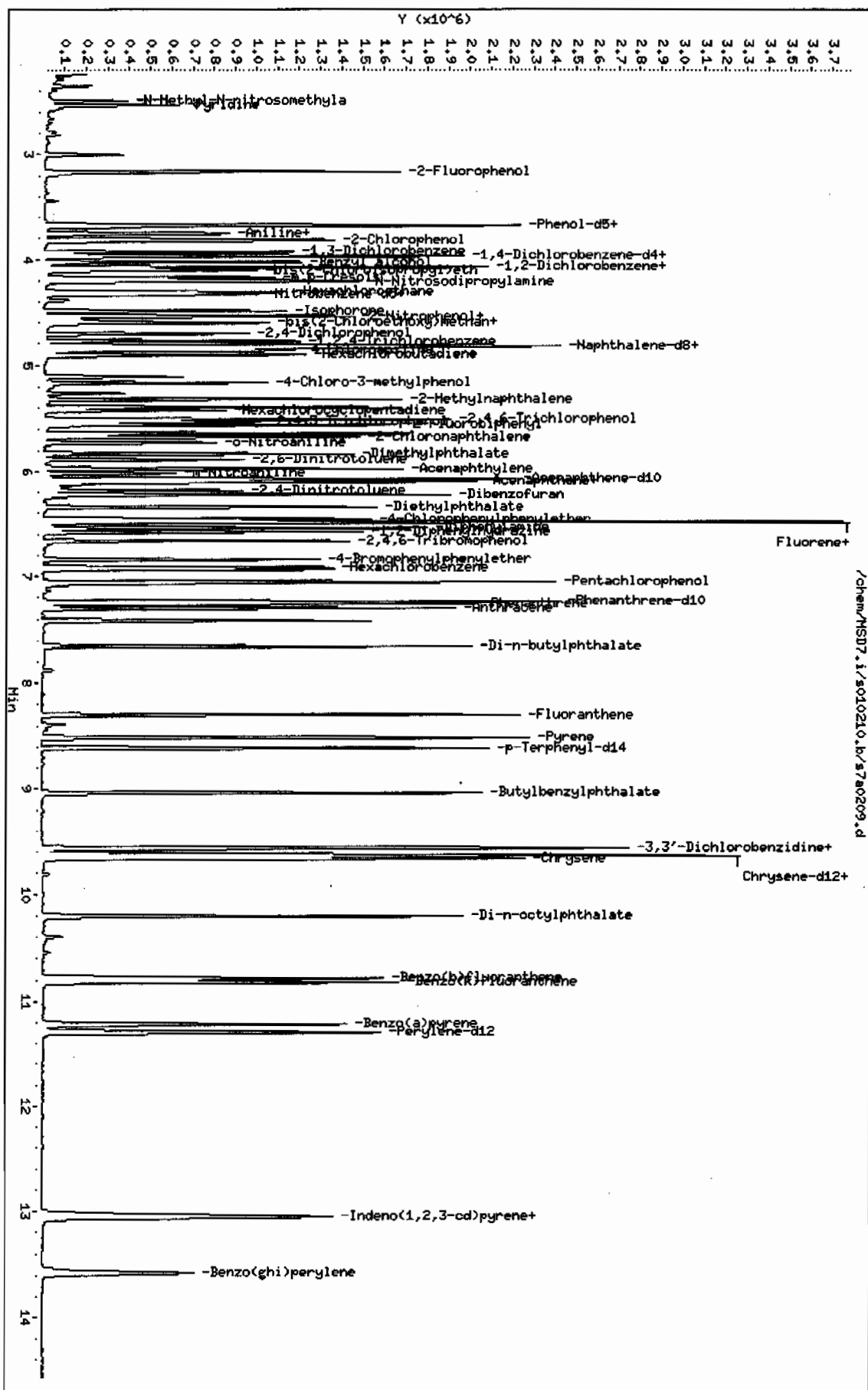
Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
=====	=====	==	=====	=====	=====		=====	=====
56 p-Nitroaniline	138	6.479	6.480	(1.067)	129401		50.8860	1700
133 Diphenylamine	169	6.542	6.542	(0.904)	523713		38.7721	1290
58 1,2-Diphenylhydrazine	77	6.581	6.581	(0.909)	619521		34.1076	1140
61 4-Bromophenylphenylether	248	6.845	6.846	(0.945)	184458		37.0694	1240
63 Hexachlorobenzene	284	6.918	6.918	(0.955)	198612		40.5250	1350
68 Phenanthrene	178	7.260	7.260	(1.003)	890553		35.9607	1200
69 Anthracene	178	7.303	7.303	(1.009)	907336		36.3895	1210
72 Di-n-butylphthalate	149	7.654	7.654	(1.057)	1215899		39.7669	1320
76 Fluoranthene	202	8.295	8.295	(1.146)	1115149		40.4016	1350
85 Butylbenzylphthalate	149	9.036	9.037	(0.938)	560890		36.1498	1200
89 Benzo(a)anthracene	228	9.624	9.624	(0.998)	1042349		37.3628	1240
90 3,3'-Dichlorobenzidine	252	9.571	9.571	(0.993)	313346		33.5689	1120
92 Chrysene	228	9.662	9.662	(1.002)	1013867		39.4957	1320
93 bis(2-Ethylhexyl)phthalate	149	9.561	9.561	(0.992)	770299		37.6120	1250
94 Di-n-octylphthalate	149	10.207	10.207	(0.904)	1175837		37.8871	1260
95 Benzo(b)fluoranthene	252	10.784	10.784	(0.955)	1057427		41.8343	1390
96 Benzo(k)fluoranthene	252	10.818	10.818	(0.958)	990181		40.7900	1360
97 Benzo(a)pyrene	252	11.218	11.218	(0.993)	921228		40.9699	1360
99 Indeno(1,2,3-cd)pyrene	276	13.043	13.043	(1.155)	861153		38.4240	1280
100 Dibenzo(a,h)anthracene	278	13.057	13.057	(1.156)	710673		39.6722	1320
101 Benzo(ghi)perylene	276	13.577	13.573	(1.202)	690014		35.9949	1200
1 N-Methyl-N-nitrosomethylamine	74	2.497	2.488	(0.630)	144248		31.2204	1040

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/MSD7.i/s010210.b/s7a0209.d
 Date: 02-JAN-2010 18:38
 Client ID: SBLK01LCS
 Sample Info: 11202005231.19370951.11.SNH.F11.LCS
 Volume Injected (uL): 0.5
 Column phase: JMW DB-SHS

Instrument: MSD7.1
 Operator: JMB3
 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: 937094 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)
1202005230 MB	28-DEC-2009 21:32:43	30	1	0.03333
1202005231 LCS	28-DEC-2009 21:32:43	30	1	0.03333
243472001	28-DEC-2009 21:32:43	30.14	1	0.03318
243472002	28-DEC-2009 21:32:43	30.05	1	0.03328
243472003	28-DEC-2009 21:32:43	30.06	1	0.03327
243490001	28-DEC-2009 21:32:43	30.03	1	0.0333
243490002	28-DEC-2009 21:32:43	30.19	1	0.03312
243490003	28-DEC-2009 21:32:43	30.04	1	0.03329
243490004	28-DEC-2009 21:32:43	30.02	1	0.03331
243490005	28-DEC-2009 21:32:43	30.19	1	0.03312
243490006	28-DEC-2009 21:32:43	30.17	1	0.03315
243490007	28-DEC-2009 21:32:43	30.03	1	0.0333
243509001	28-DEC-2009 21:32:43	30.03	1	0.0333
243509002	28-DEC-2009 21:32:43	30.04	1	0.03329
243509003	28-DEC-2009 21:32:43	30.18	1	0.03313

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202005231	BNA LCS w/o Benzidine 50ppm	UE991217-12	1	mL	Verified By: AJS
LCS	1202005231	BENZIDINE LCS	UE991223-21	1	mL	Final Solvent: CH2Cl2
SURR	All	BNA for all Surrogate	UE991217-10	1	mL	
REGNT	All	Acetone	1233927	150	mL	
REGNT	All	Methylene Chloride	1246976-D	150	mL	
SOURC	All	SODIUM SULFATE	1242582	30	g	

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD/

DATE: 12/31/2009

METHOD: See raw data

OPERATOR: jld1

REVIEWED BY:

DATE:

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1202440-D

Multiplier Voltage: 1788 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN091213-01 Internal Std ID: WBN091223-01

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/MSD7.i/s123009.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s713001-D.d	WBN091213-01	JMB3	30-DEC-2009 08:32	DFTPP	1s123009	1.0	DFTPP	Tune for mega/ap/pest
s713001.d	WBN091213-01	JMB3	30-DEC-2009 08:32	DFTPP	1s123009	1.0	DFTPP	Tune for mega/ap/pest
s713002.d	INSTBLANK	JMB3	30-DEC-2009 08:44	-----	1s123009	1.0	INSTBLANK	
s713003.d	WBN091225-09	JMB3	30-DEC-2009 09:11	11 PPM	1s121709a	1.0	MEGA001	
s713004.d	WBN091225-10	JMB3	30-DEC-2009 09:38	110 PPM	1s121709a	1.0	MEGA010	
s713005.d	WBN091225-11	JMB3	30-DEC-2009 10:05	120 PPM	1s121709a	1.0	MEGA020	DOSE see s713009
s713006.d	WBN091225-12.1	JMB3	30-DEC-2009 10:32	140 PPM	1s123009	1.0	MEGA040	
s713007.d	WBN091225-13	JMB3	30-DEC-2009 10:59	150 PPM	1s123009	1.0	MEGA050	
s713008.d	WBN091225-14	JMB3	30-DEC-2009 11:26	180 PPM	1s123009	1.0	MEGA080	
s713009-D.d	WBN091225-11	JMB3	30-DEC-2009 11:53	120 PPM	1s123009	1.0	MEGA020	
s713009.d	WBN091225-11	JMB3	30-DEC-2009 11:53	120 PPM	1s123009	1.0	MEGA020	
s713010.d	WBN091225-15	JMB3	30-DEC-2009 12:20	1100 PPM	1s123009	1.0	MEGA100	
s713011.d	WBN091225-16	JMB3	30-DEC-2009 12:47	1120 PPM	1s123009	1.0	MEGA120	
s713012.d	INSTBLANK	JMB3	30-DEC-2009 13:14	-----	1s123009	1.0	INSTBLANK	
s713013-D.d	WBN091223-17.1	JMB3	30-DEC-2009 13:41	140 PPM	1s123009	1.0	MEGA1CV	
s713013.d	WBN091223-17.1	JMB3	30-DEC-2009 13:41	140 PPM	1s123009	1.0	MEGA1CV	
s713014.d	WBN091201-01	JMB3	30-DEC-2009 14:08	110 PPM	1s123009	1.0	AP010	
s713015.d	WBN091201-02	JMB3	30-DEC-2009 14:30	120 PPM	1s123009	1.0	AP020	
s713016.d	WBN091201-03.1	JMB3	30-DEC-2009 14:52	140 PPM	1s123009	1.0	AP040	DOSE-to get c77 to pass

1s713017.d	WBN091201-04	JMB3	30-DEC-2009 15:14	150 PPM	1s123009	1.0 AP050	
1s713018.d	WBN091201-05	JMB3	30-DEC-2009 15:36	180 PPM	1s123009	1.0 AP080	
1s713019.d	WBN091201-06	JMB3	30-DEC-2009 15:58	100 PPM	1s123009	1.0 AP100	
1s713020.d	WBN091201-07	JMB3	30-DEC-2009 16:20	120 PPM	1s123009	1.0 AP120	
1s713021.d	WBN091202-25	JMB3	30-DEC-2009 16:41	110 PPM	1s123009	1.0 PEST010	
1s713022.d	WBN091202-24	JMB3	30-DEC-2009 17:03	120 PPM	1s123009	1.0 PEST020	
1s713023.d	WBN091202-23.1	JMB3	30-DEC-2009 17:25	140 PPM	1s123009	1.0 PEST040	
1s713024.d	WBN091202-22	JMB3	30-DEC-2009 17:47	150 PPM	1s123009	1.0 PEST050	
1s713025.d	WBN091202-21	JMB3	30-DEC-2009 18:09	180 PPM	1s123009	1.0 PEST080	
1s713026.d	WBN091202-20	JMB3	30-DEC-2009 18:31	100 PPM	1s123009	1.0 PEST100	
1s713027.d	WBN091202-19	JMB3	30-DEC-2009 18:53	120 PPM	1s123009	1.0 PEST120	
1s713028-D.d	WBN091201-08.1	JMB3	30-DEC-2009 19:15	ICV	1s123009	1.0 APICV	
1s713028.d	WBN091201-08.1	JMB3	30-DEC-2009 19:15	ICV	1s123009	1.0 APICV	
1s713029-D.d	WBN091202-26.1	JMB3	30-DEC-2009 19:36	ICV	1s123009	1.0 PESTICV	
1s713029.d	WBN091202-26.1	JMB3	30-DEC-2009 19:36	ICV	1s123009	1.0 PESTICV	
1s713030-D.d	WBN091213-01	JMB3	30-DEC-2009 20:01	DFTPP	1s123009	1.0 DFTPP	tune for hex/hev
1s713030.d	WBN091213-01	JMB3	30-DEC-2009 20:01	DFTPP	1s123009	1.0 DFTPP	tune for hex/hev
1s713031.d	INSTBLANK	JMB3	30-DEC-2009 20:14	-----	1s123009	1.0 INSTBLANK	
1s713032.d	WBN091202-16	JMB3	30-DEC-2009 20:36	500 PPM	1s123009	1.0 HEX500	
1s713033.d	WBN091202-15	JMB3	30-DEC-2009 20:58	1000 PPM	1s123009	1.0 HEX1000	
1s713034.d	WBN091202-14	JMB3	30-DEC-2009 21:19	1250 PPM	1s123009	1.0 HEX1250	
1s713035.d	WBN091202-13	JMB3	30-DEC-2009 21:41	1500 PPM	1s123009	1.0 HEX1500	
1s713036.d	WBN091202-12	JMB3	30-DEC-2009 22:03	1750 PPM	1s123009	1.0 HEX1750	
1s713037.d	UBN090828-02.6	JMB3	30-DEC-2009 22:25	12000 PPM	1s123009	1.0 HEX2000	
1s713038.d	UBN091117-01	JMB3	30-DEC-2009 22:47	110 PPM	1s123009	1.0 NEV010	
1s713039.d	UBN091117-02	JMB3	30-DEC-2009 23:09	120 PPM	1s123009	1.0 NEV020	
1s713040.d	UBN091117-03	JMB3	30-DEC-2009 23:30	140 PPM	1s123009	1.0 NEV040	

ls713041.d	UBN091117-04	JMB3	30-DEC-2009 23:52	150 PPM	ls123009	1.0 NEV050	
ls713042.d	UBN091117-05	JMB3	31-DEC-2009 00:14	180 PPM	ls123009	1.0 NEV080	
ls713043.d	UBN091117-03	JMB3	31-DEC-2009 00:36	1100 PPM	ls123009	1.0 NEV100	
ls713044.d	UBN091117-02	JMB3	31-DEC-2009 00:58	1120 PPM	ls123009	1.0 NEV120	
ls713045-D.d	WEN090827-10.3	JMB3	31-DEC-2009 01:20	ICV	ls123009	1.0 HEXICV	
ls713045.d	WEN090827-10.3	JMB3	31-DEC-2009 01:20	ICV	ls123009	1.0 HEXICV	

Instrument Batch: /chem/MSD7.i/s123009.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD/

DATE: 01/02/2010

METHOD: See raw data

OPERATOR: JMB3

REVIEWED BY:

DATE:

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1202440-D

Multiplier Voltage: 1788 Emv Extr. Injection Volume: 0.5, 1.0 ul

DFTPP Solution ID: WBN091213-01 Internal Std ID: WBN091223-01

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/MSD7.i/s010210.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s7a0201.d	WBN091213-01	JMB3	02-JAN-2010 09:24	DFTPP	s010210	1.0	DFTPP	DUSE
s7a0202.d	WBN091213-01	JMB3	02-JAN-2010 09:39	DFTPP	s010210	1.0	DFTPP	DUSE
s7a0203.d	WBN091213-01	JMB3	02-JAN-2010 09:55	DFTPP	s010210	1.0	DFTPP	DUSE
s7a0204.d	WBN091213-01	JMB3	02-JAN-2010 15:42	DFTPP	s010210	1.0	DFTPP	8270c TUNE: PASSES
s7a0205-625.d	WBN091225-12.2	JMB3	02-JAN-2010 15:54	CVS	s010210	1.0	MEGACVS	DUSE: 625 MEGA CVS fails >20% for some analytes
s7a0205.d	WBN091225-12.2	JMB3	02-JAN-2010 15:54	CVS	s010210	1.0	MEGACVS	8270c MEGA CVS (IS1: 217575)
s7a0206.d	WBN091201-08.2	JMB3	02-JAN-2010 16:21	CVS	s010210	1.0	APCVS	8270c AP CVS
s7a0207.d	WBN091202-26.3	JMB3	02-JAN-2010 16:48	CVS	s010210	1.0	PESTCVS	8270c PEST CVS
s7a0208-1.d	1202005230	JMB3	02-JAN-2010 18:17	937095	10-1057	1.0	MB	DUSE: PAH hits <RDL (c99/100/101) - see rerun s7a0406
s7a0208-2.d	1202005230	JMB3	02-JAN-2010 18:17	937095	10-1069	1.0	MB	DUSE: PAH hits <RDL (c99/100/101) - see rerun s7a0406
s7a0208.d	1202005230	JMB3	02-JAN-2010 18:17	937095	10-1036	1.0	MB	DUSE: PAH hits <RDL (c99/100/101) - see rerun s7a0406
s7a0209-1.d	1202005231	JMB3	02-JAN-2010 18:38	937095	10-1057	1.0	LCS	REPORT
s7a0209-2.d	1202005231	JMB3	02-JAN-2010 18:38	937095	10-1069	1.0	LCS	REPORT
s7a0209.d	1202005231	JMB3	02-JAN-2010 18:38	937095	10-1036	1.0	LCS	REPORT
s7a0210.d	1243472001	JMB3	02-JAN-2010 19:00	937095	10-1057	1.0	LANL	REPORT: hits in MB not detected in sample
s7a0211.d	1243472002	JMB3	02-JAN-2010 19:21	937095	10-1057	1.0	LANL	REPORT: hits in MB not detected in sample
s7a0212.d	1243472003	JMB3	02-JAN-2010 19:43	937095	10-1057	1.0	LANL	DUSE: no ISTD added - see rerun s4a0407
s7a0213.d	1243490001	JMB3	02-JAN-2010 20:05	937095	10-1036	1.0	LANL	DUSE ISTD high, surr low - see rerun s6a0408
s7a0214.d	1243490002	JMB3	02-JAN-2010 20:26	937095	10-1036	1.0	LANL	REPORT

s7a0215.d	243490003	JMB3	02-JAN-2010 20:48	937095	10-1036	1.0 LANL	REPORT	
s7a0216.d	243490004	JMB3	02-JAN-2010 21:09	937095	10-1036	1.0 LANL	DUSE: c99/101 <RDL - rerun s7a0411	
s7a0217.d	243490005	JMB3	02-JAN-2010 21:31	937095	10-1036	1.0 LANL	REPORT	
s7a0218.d	243490006	JMB3	02-JAN-2010 21:53	937095	10-1036	1.0 LANL	REPORT	
s7a0219.d	243490007	JMB3	02-JAN-2010 22:15	937095	10-1036	1.0 LANL	DUSE: c99/101 <RDL - rerun s7a0412	
s7a0220.d	243501001	JMB3	02-JAN-2010 22:36	937095	10-947	1.0 LANL	DUSE: SDG removed from batch - analyzed for MS/MSD only	
s7a0221.d	1202005232	JMB3	02-JAN-2010 22:58	937095	10-947	1.0 MS	DUSE: SDG removed from batch - analyzed for MS/MSD only	
s7a0222.d	1202005233	JMB3	02-JAN-2010 23:19	937095	10-947	1.0 MSD	DUSE: SDG removed from batch - analyzed for MS/MSD only	
s7a0223.d	243509001	JMB3	02-JAN-2010 23:41	937095	10-1069	1.0 LANL	DUSE: c99/c100/c101 >RDL - rerun s7a0413	
s7a0224.d	243509002	JMB3	03-JAN-2010 00:03	937095	10-1069	1.0 LANL	DUSE: c99/c100/c101 >RDL - rerun s7a0414 ; 4x s7a0409	
s7a0225.d	243509003	JMB3	03-JAN-2010 00:25	937095	10-1069	1.0 LANL	DUSE: possible carryover - see rerun s7a0410	

Instrument Batch: /chem/MSD7.i/s010210.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: MSD/

DATE: 01/04/2010 METHOD: See raw data OPERATOR: JMB3 REVIEWED BY: DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: 1202440-D
Multiplier Voltage: 1788 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN091213-01 Internal Std ID: WBN091223-01
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/MSD7.i/s010410.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s7a0401.d	WBN091213-01	JMB3	04-JAN-2010 09:45	IDFTPP	s010410	1.0	IDFTPP	DUSE
s7a0402.d	WBN091213-01	JMB3	04-JAN-2010 11:28	IDFTPP	s010410	1.0	IDFTPP	8270c TUNE: PASSES
s7a0403.d	WBN091225-12.2	JMB3	04-JAN-2010 11:41	ICVS	s010410	1.0	MEGACVS	8270c MEGA CVS (IS1: 277706)
s7a0404.d	WBN100103-03.2	JMB3	04-JAN-2010 12:07	ICVS	s010410	1.0	APCVS	8270c AP CVS
s7a0405.d	WBN100103-23.2	JMB3	04-JAN-2010 12:29	ICVS	s010410	1.0	PESTCVS	8270c PEST CVS
s7a0406-1.d	1202005230	JMB3	04-JAN-2010 12:51	937095	10-1057	1.0	MB	REPORT
s7a0406-2.d	1202005230	JMB3	04-JAN-2010 12:51	937095	10-1069	1.0	MB	REPORT
s7a0406.d	1202005230	JMB3	04-JAN-2010 12:51	937095	10-1036	1.0	MB	REPORT
s7a0407.d	1243472003	JMB3	04-JAN-2010 13:13	937095	10-1057	1.0	LANL	REPORT
s7a0408.d	1243490001	JMB3	04-JAN-2010 13:34	937095	10-1036	1.0	LANL	REPORT
s7a0409.d	1243509002	JMB3	04-JAN-2010 13:56	937095	10-1069	4.0	LANL_4X	REPORT: OR hits from s7a0414 only
s7a0410.d	1243509003	JMB3	04-JAN-2010 14:17	937095	10-1069	1.0	LANL	REPORT
s7a0411.d	1243490004	JMB3	04-JAN-2010 14:39	937095	10-1036	1.0	LANL	REPORT
s7a0412.d	1243490007	JMB3	04-JAN-2010 15:01	937095	10-1036	1.0	LANL	REPORT
s7a0413.d	1243509001	JMB3	04-JAN-2010 15:23	937095	10-1069	1.0	LANL	REPORT
s7a0414.d	1243509002	JMB3	04-JAN-2010 15:45	937095	10-1069	1.0	LANL	REPORT: all except OR hits - see s7a0409 for 4x run

Instrument Batch: /chem/MSD7.i/s010410.b

DATA EXCEPTION REPORT

Mo.Day Yr. 05-JAN-10	Division: Federal	Quality Criteria: SOP	Type: Process
Instrument Type: SEMIVOA GC/MS	Test / Method: SW 846 EPA 8270C	Matrix Type: Solid	Client Code: LANL
Batch ID: 937095	Sample Numbers: See below		
Potentially affected work order(s)(SDG): 243472(10-1057),243490(10-1036),243509(10-1069) Application Issues: Other			
Specification and Requirements Exception Description:		DER Disposition:	
1. Sample 243501001 was selected for analysis as the Matrix Spike and Matrix Spike Duplicate.		1. The sample was a re-log sample from a previous work-order and will not be reported to the client. Due to software limitations, the other SDGs in this batch not associated with work-order 243501 will not have a reportable MS and MSD in their data package. The sample and MS/MSD pair were extracted, analyzed and displayed acceptable results. The raw data files and a manually generated spike recovery report have been placed in the Miscellaneous Sections of the SDGs reported from this batch.	

Originator's Name:

Daniel Beacham 05-JAN-10

Data Validator/Group Leader:

Barbara Bailey 05-JAN-10

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
N-Methyl-N-nitrosomethy	1660	0.0	860	52	32- 90
Pyridine	1660	0.0	1010	61	30- 95
Aniline	1660	0.0	915	55	34-111
Phenol	1660	0.0	965	58	32-105
bis(2-Chloroethyl) ethe	1660	0.0	810	49	34-101
2-Chlorophenol	1660	0.0	923	56	33-106
1,3-Dichlorobenzene	1660	0.0	941	57	31- 97
1,4-Dichlorobenzene	1660	0.0	939	56	33- 95
Benzyl alcohol	1660	0.0	1110	67	17-120
1,2-Dichlorobenzene	1660	0.0	975	59	32-102
bis(2-Chloroisopropyl)e	1660	0.0	703	42	32-113
o-Cresol	1660	0.0	958	58	31-119
N-Nitrosodipropylamine	1660	0.0	916	55	31-109
m,p-Cresols	1660	0.0	1060	64	35-125
Hexachloroethane	1660	0.0	874	53	30-100
Nitrobenzene	1660	0.0	997	60	33-108
Isophorone	1660	0.0	1020	61	34-110
2-Nitrophenol	1660	0.0	988	60	32-108
2,4-Dimethylphenol	1660	0.0	1070	64	32-115
bis(2-Chloroethoxy)meth	1660	0.0	983	59	35-108
2,4-Dichlorophenol	1660	0.0	1090	66	38-110
Benzoic acid	3330	0.0	2150	64	18-134
1,2,4-Trichlorobenzene	1660	0.0	1010	61	31-105
Naphthalene	1660	0.0	1000	60	31-105
4-Chloroaniline	1660	0.0	965	58	29-123
Hexachlorobutadiene	1660	0.0	1140	69	31-108
4-Chloro-3-methylphenol	1660	0.0	1120	67	38-119
2-Methylnaphthalene	1660	0.0	1080	65	32-110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Hexachlorocyclopentadie	1660	0.0	991	60	21-122
2,4,6-Trichlorophenol	1660	0.0	1100	66	37-108
2,4,5-Trichlorophenol	1660	0.0	1230	74	37-116
2-Chloronaphthalene	1660	0.0	985	59	37-103
o-Nitroaniline	1660	0.0	988	60	36-115
m-Nitroaniline	1660	0.0	1220	73	39-117
Dimethylphthalate	1660	0.0	1080	65	41-105
2,6-Dinitrotoluene	1660	0.0	1040	63	41-103
Acenaphthylene	1660	0.0	1100	66	40-103
Acenaphthene	1660	0.0	990	60	39-101
2,4-Dinitrophenol	1660	0.0	919	55	25-104
Dibenzofuran	1660	0.0	1310	79	40-114
2,4-Dinitrotoluene	1660	0.0	1080	65	42-106
Diethylphthalate	1660	0.0	1140	69	43-110
4-Nitrophenol	1660	0.0	1240	75	24-120
Fluorene	1660	0.0	1100	66	48- 99
4-Chlorophenylphenyleth	1660	0.0	1110	67	42-110
2-Methyl-4,6-dinitrophe	1660	0.0	841	51	19-118
p-Nitroaniline	1660	0.0	1630	98	35-139
Diphenylamine	1660	0.0	1120	67	41-112
1,2-Diphenylhydrazine	1660	0.0	979	59	36-118
4-Bromophenylphenylethe	1660	0.0	1070	64	38-112
Hexachlorobenzene	1660	0.0	1170	70	38-113
Pentachlorophenol	1660	0.0	1280	77	26-121
Phenanthrene	1660	0.0	1020	61	38-110
Anthracene	1660	0.0	1030	62	38-112
Di-n-butylphthalate	1660	0.0	1110	67	42-119
Fluoranthene	1660	0.0	1120	67	38-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Pyrene	1660	0.0	985	59	34-120
Butylbenzylphthalate	1660	0.0	1040	63	38-126
Benzo(a)anthracene	1660	0.0	1050	63	39-110
3,3'-Dichlorobenzidine	1660	0.0	928	56	35-106
Chrysene	1660	0.0	1090	66	39-109
bis(2-Ethylhexyl)phthal	1660	0.0	1080	65	40-125
Di-n-octylphthalate	1660	0.0	1140	69	30-147
Benzo(b)fluoranthene	1660	0.0	1200	72	38-116
Benzo(k)fluoranthene	1660	0.0	1160	70	39-120
Benzo(a)pyrene	1660	0.0	1140	69	40-115
Indeno(1,2,3-cd)pyrene	1660	0.0	964	58	32-120
Dibenzo(a,h)anthracene	1660	0.0	1000	60	38-124
Benzo(ghi)perylene	1660	0.0	872	52	28-119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
N-Methyl-N-nitrosomethy	1660	863	52	0	30	32- 90
Pyridine	1660	1040	63	3	30	30- 95
Aniline	1660	955	58	5	30	34-111
Phenol	1660	960	58	0	30	32-105
bis(2-Chloroethyl) ethe	1660	788	47	4	30	34-101
2-Chlorophenol	1660	923	56	0	30	33-106
1,3-Dichlorobenzene	1660	909	55	4	30	31- 97
1,4-Dichlorobenzene	1660	915	55	2	30	33- 95
Benzyl alcohol	1660	1090	66	2	30	17-120
1,2-Dichlorobenzene	1660	952	57	3	30	32-102
bis(2-Chloroisopropyl)e	1660	678	41	2	30	32-113
o-Cresol	1660	949	57	2	30	31-119
N-Nitrosodipropylamine	1660	942	57	4	30	31-109
m,p-Cresols	1660	1060	64	0	30	35-125
Hexachloroethane	1660	864	52	2	30	30-100
Nitrobenzene	1660	1000	60	0	30	33-108
Isophorone	1660	1010	61	0	30	34-110
2-Nitrophenol	1660	989	60	0	30	32-108
2,4-Dimethylphenol	1660	1060	64	0	30	32-115
bis(2-Chloroethoxy)meth	1660	943	57	3	30	35-108
2,4-Dichlorophenol	1660	1110	67	2	30	38-110
Benzoic acid	3320	2420	73	13	30	18-134
1,2,4-Trichlorobenzene	1660	983	59	3	30	31-105
Naphthalene	1660	978	59	2	30	31-105
4-Chloroaniline	1660	930	56	4	30	29-123
Hexachlorobutadiene	1660	1110	67	3	30	31-108
4-Chloro-3-methylphenol	1660	1130	68	1	30	38-119
2-Methylnaphthalene	1660	1060	64	2	30	32-110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Hexachlorocyclopentadie	1660	1030	62	3	30	21-122
2,4,6-Trichlorophenol	1660	1180	71	7	30	37-108
2,4,5-Trichlorophenol	1660	1200	72	3	30	37-116
2-Chloronaphthalene	1660	972	58	2	30	37-103
o-Nitroaniline	1660	1010	61	2	30	36-115
m-Nitroaniline	1660	1180	71	3	30	39-117
Dimethylphthalate	1660	1090	66	2	30	41-105
2,6-Dinitrotoluene	1660	1060	64	2	30	41-103
Acenaphthylene	1660	1090	66	0	30	40-103
Acenaphthene	1660	1010	61	2	30	39-101
2,4-Dinitrophenol	1660	1060	64	15	30	25-104
Dibenzofuran	1660	1310	79	0	30	40-114
2,4-Dinitrotoluene	1660	1090	66	2	30	42-106
Diethylphthalate	1660	1120	67	3	30	43-110
4-Nitrophenol	1660	1350	81	8	30	24-120
Fluorene	1660	1090	66	0	30	48- 99
4-Chlorophenylphenyleth	1660	1110	67	0	30	42-110
2-Methyl-4,6-dinitrophe	1660	942	57	11	30	19-118
p-Nitroaniline	1660	1630	98	0	30	35-139
Diphenylamine	1660	1150	69	3	30	41-112
1,2-Diphenylhydrazine	1660	997	60	2	30	36-118
4-Bromophenylphenylethe	1660	1100	66	3	30	38-112
Hexachlorobenzene	1660	1180	71	1	30	38-113
Pentachlorophenol	1660	1370	82	6	30	26-121
Phenanthrene	1660	1030	62	2	30	38-110
Anthracene	1660	1060	64	3	30	38-112
Di-n-butylphthalate	1660	1110	67	0	30	42-119
Fluoranthene	1660	1150	69	3	30	38-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.:

Matrix Spike - Sample No.: RE16-10-2877 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Pyrene	1660	999	60	2	30	34-120
Butylbenzylphthalate	1660	1050	63	0	30	38-126
Benzo(a)anthracene	1660	1090	66	5	30	39-110
3,3'-Dichlorobenzidine	1660	1030	62	10	30	35-106
Chrysene	1660	1090	66	0	30	39-109
bis(2-Ethylhexyl)phthal	1660	1090	66	2	30	40-125
Di-n-octylphthalate	1660	1120	67	3	30	30-147
Benzo(b)fluoranthene	1660	1140	69	4	30	38-116
Benzo(k)fluoranthene	1660	1210	73	4	30	39-120
Benzo(a)pyrene	1660	1160	70	1	30	40-115
Indeno(1,2,3-cd)pyrene	1660	1030	62	7	30	32-120
Dibenzo(a,h)anthracene	1660	1060	64	6	30	38-124
Benzo(ghi)perylene	1660	937	56	7	30	28-119

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 69 outside limits

Spike Recovery: 0 out of 138 outside limits

COMMENTS:

Data File: /chem/MSD7.i/s010210.b/s7a0220.d
Report Date: 04-Jan-2010 08:43

Page 1

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Data file : /chem/MSD7.i/s010210.b/s7a0220.d
Lab Smp Id: 243501001 Client Smp ID: RE16-10-2877
Inj Date : 02-JAN-2010 22:36
Operator : JMB3 Inst ID: MSD7.i
Smp Info : 243501001|937095|1|SVMF|1|LANL
Misc Info : MSD8270 S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s7l3040.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-947.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

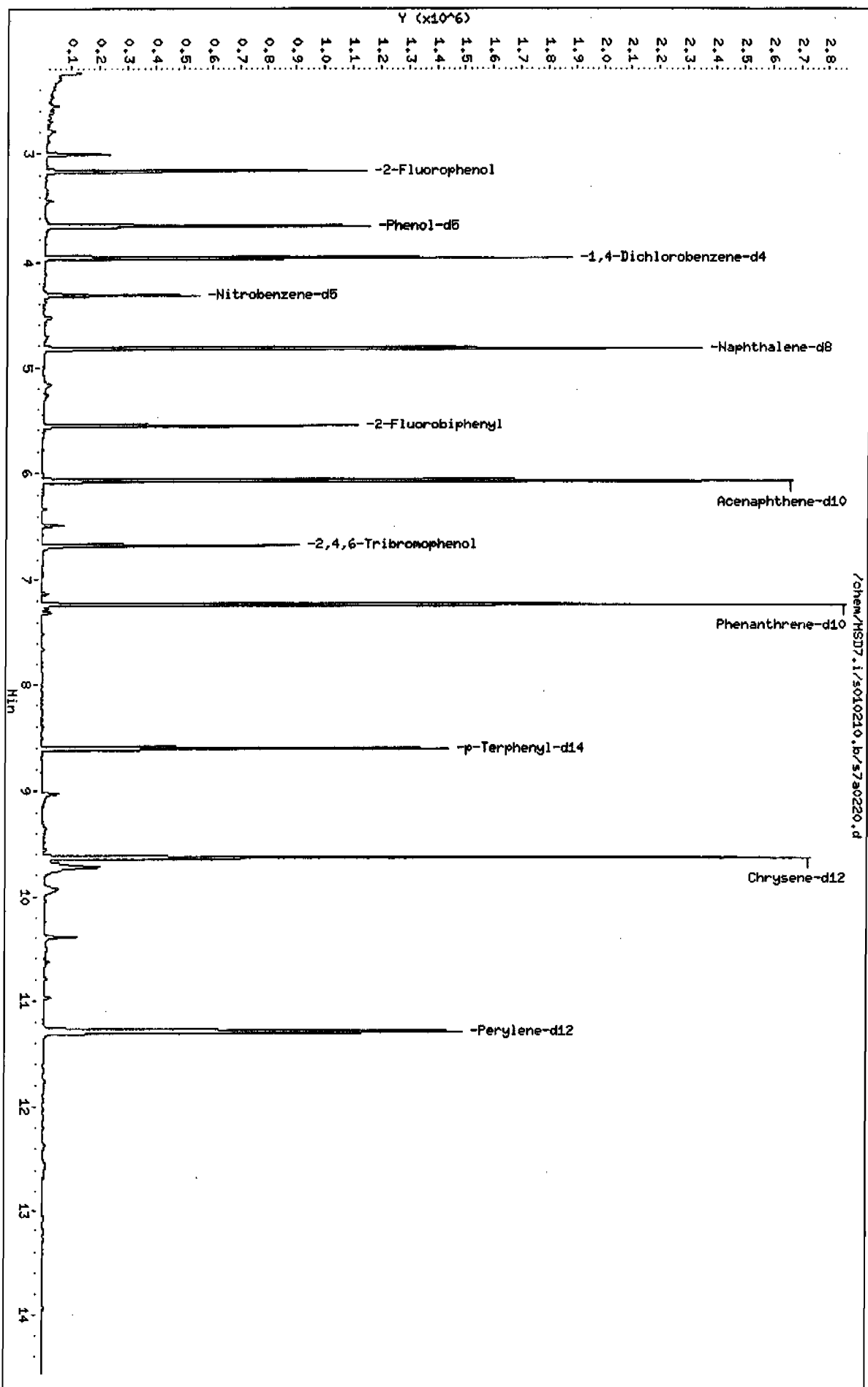
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.05000	weight of sample
M	0.00000	% moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
*****	----	---	---	-----	-----	-----	-----	-----
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)		323060	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)		1161220	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)		672049	40.0000	
* 67 Phenanthrene-d10	188	7.235	7.236	(1.000)		1286463	40.0000	
* 91 Chrysene-d12	240	9.633	9.638	(1.000)		1257225	40.0000	
* 98 Perylene-d12	264	11.290	11.295	(1.000)		986387	40.0000	
\$ 3 2-Fluorophenol	112	3.162	3.152	(0.797)		323377	37.3870	1240
\$ 5 Phenol-d5	99	3.672	3.672	(0.926)		398164	37.1287	1240
\$ 20 Nitrobenzene-d5	82	4.317	4.322	(0.895)		184477	20.6950	689
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)		398478	21.9149	729
\$ 60 2,4,6-Tribromophenol	329	6.662	6.667	(1.098)		120703	53.2677	1770
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.894)		547782	25.9834	865

Data File: /chem/HSD7.i/s010210.b/s7a0220.d
 Date: 02-JAN-2010 22:36
 Client ID: RE16-10-2877
 Sample Info: 12435010011937095111SYMF111LANL
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD7.1
 Operator: JMB3
 Column diameter: 0.20



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Data file : /chem/MSD7.i/s010210.b/s7a0221.d
Lab Smp Id: 1202005232 Client Smp ID: RE16-10-2877MS
Inj Date : 02-JAN-2010 22:58
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202005232|937095|1|SVMF|1|MS
Misc Info : |MSD8270 S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s7l3040.d
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-947.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.06000	weight of sample
M	0.00000	% moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	306468	40.0000	
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1173445	40.0000	
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	678611	40.0000	
* 67 Phenanthrene-d10	188	7.235	7.236	(1.000)	1350807	40.0000	
* 91 Chrysene-d12	240	9.638	9.638	(1.000)	1341620	40.0000	
* 98 Perylene-d12	264	11.300	11.295	(1.000)	1095812	40.0000	
\$ 3 2-Fluorophenol	112	3.167	3.152	(0.798)	455082	55.4625	1840
\$ 5 Phenol-d5	99	3.677	3.672	(0.927)	569549	55.9857	1860
\$ 20 Nitrobenzene-d5	82	4.322	4.322	(0.896)	272740	30.2777	1010
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	546783	29.7803	991
\$ 60 2,4,6-Tribromophenol	329	6.667	6.667	(1.098)	192046	83.9327	2790
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.893)	811452	36.0691	1200

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
6 Phenol	94	3.687	3.677	(0.930)	297326	29.0039	965
8 2-Chlorophenol	128	3.831	3.826	(0.966)	236787	27.7451	923
11 1,4-Dichlorobenzene	146	3.976	3.976	(1.002)	268848	28.2372	939
17 N-Nitrosodipropylamine	70	4.192	4.192	(1.057)	169142	27.5492	916 (Q)
28 1,2,4-Trichlorobenzene	180	4.775	4.770	(0.990)	239478	30.4663	1010
33 4-Chloro-3-methylphenol	107	5.165	5.155	(1.071)	229769	33.7820	1120
47 Acenaphthene	154	6.094	6.094	(1.004)	482953	29.7759	990
50 2,4-Dinitrotoluene	165	6.181	6.181	(1.018)	186833	32.4880	1080
52 4-Nitrophenol	139	6.114	6.099	(1.007)	113262	37.1453	1240
65 Pentachlorophenol	266	7.067	7.062	(0.977)	123500	38.5459	1280
79 Pyrene	202	8.512	8.512	(0.883)	1141595	29.6124	985
2 Pyridine	79	2.536	2.517	(0.639)	189008	30.3311	1010
4 Aniline	66	3.749	3.744	(0.945)	116786	27.5146	915 (Q)
7 bis(2-Chloroethyl) ether	63	3.764	3.759	(0.949)	194464	24.3508	810 (Q)
9 1,3-Dichlorobenzene	146	3.932	3.927	(0.991)	276663	28.2821	941
12 Benzyl alcohol	108	4.028	4.024	(1.016)	181554	33.2801	1110
13 1,2-Dichlorobenzene	146	4.077	4.077	(1.028)	256876	29.3015	975
14 bis(2-Chloroisopropyl)ether	45	4.101	4.101	(1.034)	415672	21.1379	703
15 o-Cresol	107	4.077	4.072	(1.028)	185420	28.8120	958
18 m,p-Cresols	107	4.173	4.168	(1.052)	274789	31.8634	1060
19 Hexachloroethane	117	4.308	4.308	(1.086)	104050	26.2811	874
21 Nitrobenzene	77	4.332	4.332	(0.898)	250425	29.9733	997
22 Isophorone	82	4.486	4.486	(0.930)	497683	30.7838	1020
23 2-Nitrophenol	139	4.549	4.549	(0.943)	124660	29.6886	988
24 2,4-Dimethylphenol	122	4.534	4.534	(0.940)	237655	32.1379	1070
25 bis(2-Chloroethoxy)methane	93	4.606	4.602	(0.955)	269825	29.5458	983
26 2,4-Dichlorophenol	162	4.707	4.703	(0.976)	212537	32.7201	1090
27 Benzoic acid	105	4.597	4.573	(0.953)	271318	64.5187	2150
30 Naphthalene	128	4.837	4.838	(1.003)	712460	30.1989	1000
31 4-Chloroaniline	127	4.852	4.838	(1.006)	279108	29.0152	965
32 Hexachlorobutadiene	225	4.905	4.905	(1.017)	146628	34.3258	1140
34 2-Methylnaphthalene	142	5.319	5.319	(1.103)	518416	32.4312	1080
36 Hexachlorocyclopentadiene	237	5.420	5.420	(0.893)	116179	29.7884	991
37 2,4,6-Trichlorophenol	196	5.502	5.502	(0.906)	169421	32.9990	1100
38 2,4,5-Trichlorophenol	196	5.536	5.526	(0.912)	197591	36.9065	1230
40 2-Chloronaphthalene	162	5.670	5.666	(0.934)	487440	29.6042	985
42 o-Nitroaniline	65	5.723	5.724	(0.943)	157237	29.6971	988
41 m-Nitroaniline	138	6.017	6.022	(0.991)	123199	36.6610	1220
43 Dimethylphthalate	163	5.829	5.830	(0.960)	618771	32.5850	1080
44 2,6-Dinitrotoluene	165	5.882	5.882	(0.969)	139576	31.2426	1040
45 Acenaphthylene	152	5.974	5.974	(0.984)	846814	33.0243	1100
48 2,4-Dinitrophenol	184	6.089	6.090	(1.003)	34569	27.6228	919 (Q)
49 Dibenzofuran	168	6.219	6.220	(1.025)	883453	39.4497	1310
51 Diethylphthalate	149	6.340	6.340	(1.044)	654463	34.3085	1140
53 Fluorene	166	6.479	6.480	(1.067)	623507	33.0565	1100
54 4-Chlorophenylphenylether	204	6.455	6.455	(1.063)	311839	33.4730	1110
55 2-Methyl-4,6-dinitrophenol	198	6.494	6.494	(0.898)	65819	25.2829	841

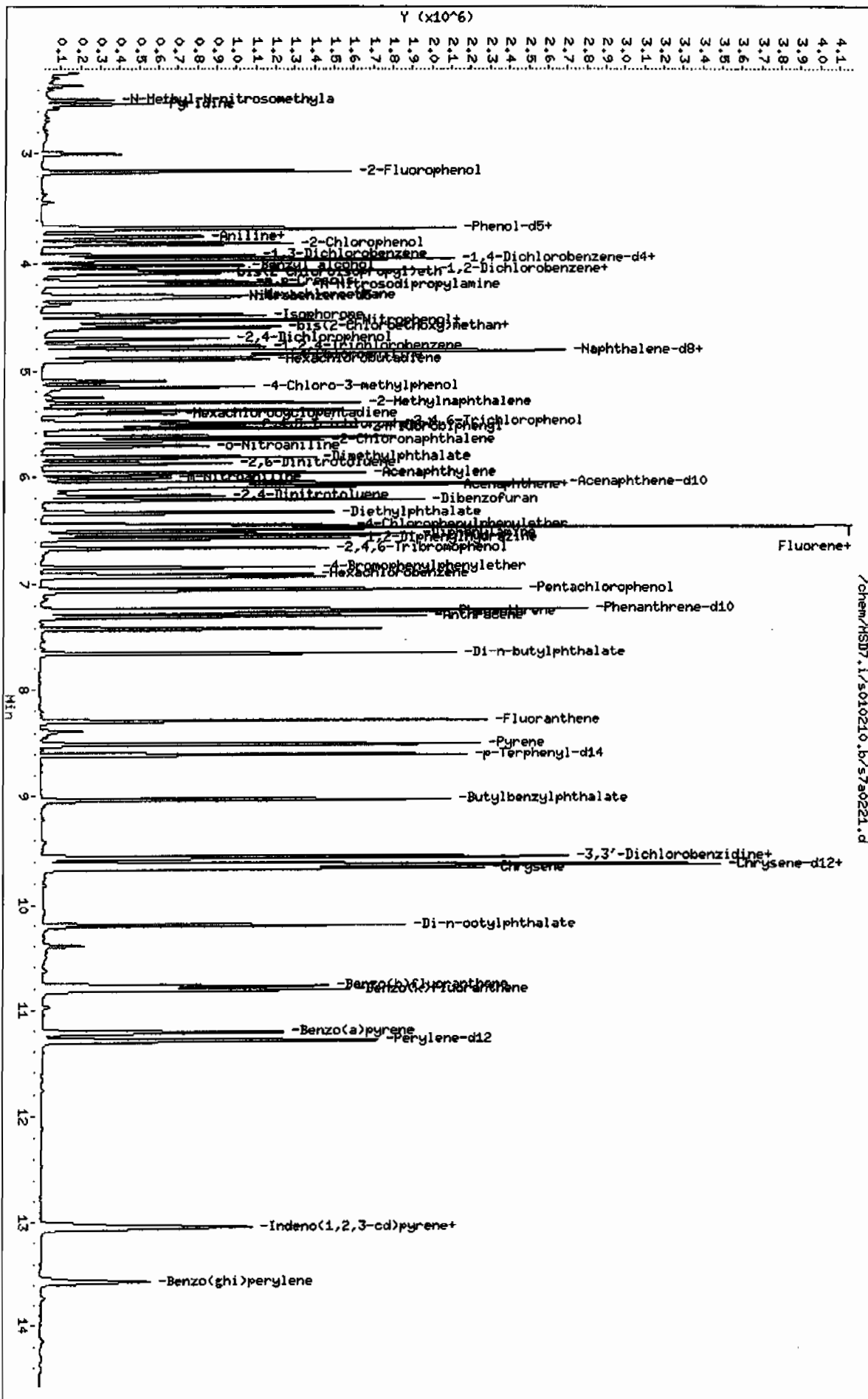
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/ul)	FINAL (ug/Kg)
-----	----	--	-----	-----	-----	-----	-----
56 p-Nitroaniline	138	6.479	6.480	(1.067)	147375	48.9596	1630
133 Diphenylamine	169	6.542	6.542	(0.904)	555460	33.7818	1120
58 1,2-Diphenylhydrazine	77	6.581	6.581	(0.909)	650889	29.4378	979
61 4-Bromophenylphenylether	248	6.841	6.846	(0.945)	194354	32.0860	1070
63 Hexachlorobenzene	284	6.913	6.918	(0.955)	209321	35.0861	1170
68 Phenanthrene	178	7.260	7.260	(1.003)	926209	30.7243	1020
69 Anthracene	178	7.303	7.303	(1.009)	942770	31.0612	1030
72 Di-n-butylphthalate	149	7.654	7.654	(1.058)	1239569	33.3042	1110
76 Fluoranthene	202	8.295	8.295	(1.146)	1135188	33.7861	1120
85 Butylbenzylphthalate	149	9.036	9.037	(0.938)	561811	31.1851	1040
89 Benzo(a)anthracene	228	9.624	9.624	(0.998)	1025515	31.6590	1050
90 3,3'-Dichlorobenzidine	252	9.571	9.571	(0.993)	302282	27.8904	928
92 Chrysene	228	9.662	9.662	(1.002)	980306	32.8896	1090
93 bis(2-Ethylhexyl)phthalate	149	9.556	9.561	(0.992)	771102	32.4270	1080
94 Di-n-octylphthalate	149	10.202	10.207	(0.903)	1149172	34.4047	1140
95 Benzo(b)fluoranthene	252	10.784	10.784	(0.954)	980874	36.0565	1200
96 Benzo(k)fluoranthene	252	10.818	10.818	(0.957)	911687	34.8958	1160
97 Benzo(a)pyrene	252	11.223	11.218	(0.993)	831649	34.3658	1140
99 Indeno(1,2,3-cd)pyrene	276	13.038	13.043	(1.154)	698790	28.9706	964
100 Dibenzo(a,h)anthracene	278	13.052	13.057	(1.155)	579926	30.0800	1000
101 Benzo(ghi)perylene	276	13.572	13.573	(1.201)	540709	26.2081	872
1 N-Methyl-N-nitrosomethylamine	74	2.497	2.488	(0.630)	135665	25.8655	860

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD7.i/s010210.b/s7a0221.d
 Date: 02-JAN-2010 22:58
 Client ID: RE16-10-2877HS
 Sample Info: 112020052321937095111SVHF11HS
 Volume Injected (uL): 0.5
 Column Phase: J&W DB-5HS

Instrument: HSD7.i
 Operator: JMB3
 Column diameter: 0.20



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Data file : /chem/MSD7.i/s010210.b/s7a0222.d
Lab Smp Id: 1202005233 Client Smp ID: RE16-10-2877MSD
Inj Date : 02-JAN-2010 23:19
Operator : JMB3 Inst ID: MSD7.i
Smp Info : |1202005233|937095|1|SVMF|1|MSD
Misc Info : |MSD8270 S|WBN091223-01|
Comment : Column: J&W Scientific DB-5MS 25m x 0.2mm x 0.33um film thickness
Method : /chem/MSD7.i/s010210.b/MSD7-M8270C-AQA-123009.m
Meth Date : 04-Jan-2010 08:10 jos00786 Quant Type: ISTD
Cal Date : 30-DEC-2009 23:30 Cal File: s713040.d
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10-947.sub
Target Version: 3.50
Processing Host: kilroy

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	500.00000	ng unit correction factor
Vt	1.00000	volume of final ext
Vi	0.50000	volume injected
Ws	30.11000	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 (ng/ul)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	3.966	3.961	(1.000)	377166	40.0000		
* 29 Naphthalene-d8	136	4.823	4.823	(1.000)	1435151	40.0000		
* 46 Acenaphthene-d10	164	6.070	6.070	(1.000)	824074	40.0000		
* 67 Phenanthrene-d10	188	7.240	7.236	(1.000)	1591678	40.0000		
* 91 Chrysene-d12	240	9.643	9.638	(1.000)	1602816	40.0000		
* 98 Perylene-d12	264	11.300	11.295	(1.000)	1376343	40.0000		
\$ 3 2-Fluorophenol	112	3.167	3.152	(0.798)	551711	54.6354	1810	
\$ 5 Phenol-d5	99	3.677	3.672	(0.927)	690353	55.1404	1830	
\$ 20 Nitrobenzene-d5	82	4.322	4.322	(0.896)	329722	29.9287	994	
\$ 39 2-Fluorobiphenyl	172	5.560	5.560	(0.916)	651685	29.2285	971	
\$ 60 2,4,6-Tribromophenol	329	6.667	6.667	(1.098)	228612	82.2773	2730	
\$ 81 p-Terphenyl-d14	244	8.608	8.608	(0.893)	958577	35.6652	1180	

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/ul)	(ug/Kg)
6 Phenol		94	3.687	3.677	(0.930)	364812	28.9165	960
8 2-Chlorophenol		128	3.831	3.826	(0.966)	292025	27.8036	923
11 1,4-Dichlorobenzene		146	3.976	3.976	(1.002)	322683	27.5387	915
17 N-Nitrosodipropylamine		70	4.197	4.192	(1.058)	214280	28.3590	942 (Q)
28 1,2,4-Trichlorobenzene		180	4.775	4.770	(0.990)	284464	29.5901	983
33 4-Chloro-3-methylphenol		107	5.165	5.155	(1.071)	283857	34.1239	1130
47 Acenaphthene		154	6.099	6.094	(1.005)	599353	30.4296	1010
50 2,4-Dinitrotoluene		165	6.181	6.181	(1.018)	228615	32.7363	1090
52 4-Nitrophenol		139	6.114	6.099	(1.007)	152025	40.6668	1350
65 Pentachlorophenol		266	7.067	7.062	(0.976)	155569	41.2072	1370
79 Pyrene		202	8.512	8.512	(0.883)	1385640	30.0856	999
2 Pyridine		79	2.550	2.517	(0.643)	239858	31.2763	1040
4 Aniline		66	3.749	3.744	(0.945)	150191	28.7521	955 (Q)
7 bis(2-Chloroethyl) ether		63	3.764	3.759	(0.949)	233262	23.7340	788 (Q)
9 1,3-Dichlorobenzene		146	3.932	3.927	(0.991)	329624	27.3799	909
12 Benzyl alcohol		108	4.029	4.024	(1.016)	221301	32.9621	1090
13 1,2-Dichlorobenzene		146	4.082	4.077	(1.029)	309235	28.6621	952
14 bis(2-Chloroisopropyl) ether		45	4.106	4.101	(1.035)	494264	20.4231	678
15 o-Cresol		107	4.077	4.072	(1.028)	226350	28.5792	949
18 m,p-Cresols		107	4.178	4.168	(1.053)	339410	31.9793	1060
19 Hexachloroethane		117	4.308	4.308	(1.086)	126762	26.0162	864
21 Nitrobenzene		77	4.337	4.332	(0.899)	309302	30.2694	1000
22 Isophorone		82	4.486	4.486	(0.930)	599042	30.2965	1010
23 2-Nitrophenol		139	4.549	4.549	(0.943)	152916	29.7770	989
24 2,4-Dimethylphenol		122	4.539	4.534	(0.941)	290277	32.0958	1060
25 bis(2-Chloroethoxy)methane		93	4.606	4.602	(0.955)	317111	28.3916	943
26 2,4-Dichlorophenol		162	4.708	4.703	(0.976)	266200	33.5084	1110
27 Benzoic acid		105	4.606	4.573	(0.955)	383909	72.9996	2420
30 Naphthalene		128	4.842	4.838	(1.004)	849887	29.4548	978
31 4-Chloroaniline		127	4.852	4.838	(1.006)	329633	28.0188	930
32 Hexachlorobutadiene		225	4.905	4.905	(1.017)	175149	33.5256	1110
34 2-Methylnaphthalene		142	5.319	5.319	(1.103)	624221	31.9292	1060
36 Hexachlorocyclopentadiene		237	5.420	5.420	(0.893)	147536	31.1510	1030
37 2,4,6-Trichlorophenol		196	5.507	5.502	(0.907)	221507	35.5284	1180
38 2,4,5-Trichlorophenol		196	5.536	5.526	(0.912)	235523	36.2262	1200
40 2-Chloronaphthalene		162	5.671	5.666	(0.934)	585237	29.2697	972
42 o-Nitroaniline		65	5.724	5.724	(0.943)	196260	30.5243	1010
41 m-Nitroaniline		138	6.017	6.022	(0.991)	145208	35.5830	1180
43 Dimethylphthalate		163	5.829	5.830	(0.960)	757374	32.8438	1090
44 2,6-Dinitrotoluene		165	5.887	5.882	(0.970)	174048	32.0819	1060
45 Acenaphthylene		152	5.974	5.974	(0.984)	1024109	32.8886	1090
48 2,4-Dinitrophenol		184	6.094	6.090	(1.004)	54054	31.8825	1060 (Q)
49 Dibenzofuran		168	6.220	6.220	(1.025)	1070385	39.3599	1310
51 Diethylphthalate		149	6.340	6.340	(1.044)	784824	33.8800	1120
53 Fluorene		166	6.480	6.480	(1.067)	750310	32.7575	1090
54 4-Chlorophenylphenylether		204	6.455	6.455	(1.063)	379111	33.5109	1110
55 2-Methyl-4,6-dinitrophenol		198	6.494	6.494	(0.897)	90754	28.3524	942

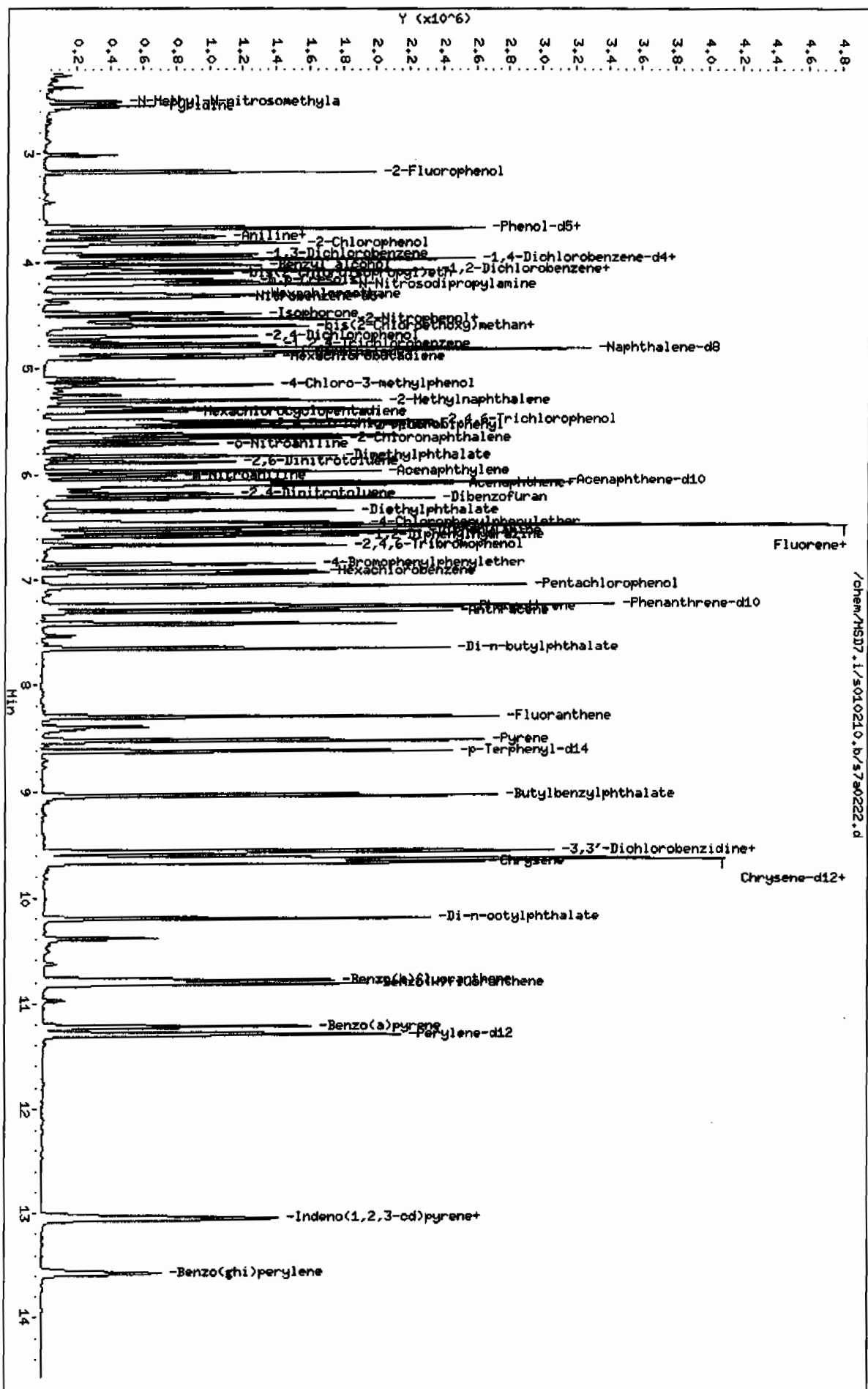
Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/ul)	FINAL (ug/Kg)
=====	----	--	-----	-----	-----	-----	-----
56 p-Nitroaniline	138	6.480	6.480	(1.067)	179869	49.1657	1630
133 Diphenylamine	169	6.542	6.542	(0.904)	673208	34.7470	1150
58 1,2-Diphenylhydrazine	77	6.581	6.581	(0.909)	782021	30.0162	997
61 4-Bromophenylphenylether	248	6.846	6.846	(0.945)	235461	32.9898	1100
63 Hexachlorobenzene	284	6.918	6.918	(0.955)	249223	35.4526	1180
68 Phenanthrene	178	7.260	7.260	(1.003)	1106883	31.1611	1030
69 Anthracene	178	7.303	7.303	(1.009)	1145246	32.0220	1060
72 Di-n-butylphthalate	149	7.654	7.654	(1.057)	1469572	33.5086	1110
76 Fluoranthene	202	8.295	8.295	(1.146)	1368047	34.5549	1150
85 Butylbenzylphthalate	149	9.036	9.037	(0.937)	681350	31.6572	1050
89 Benzo(a)anthracene	228	9.624	9.624	(0.998)	1271395	32.8535	1090
90 3,3'-Dichlorobenzidine	252	9.576	9.571	(0.993)	400123	30.9016	1030
92 Chrysene	228	9.662	9.662	(1.002)	1171397	32.8963	1090
93 bis(2-Ethylhexyl)phthalate	149	9.557	9.561	(0.991)	932575	32.8265	1090
94 Di-n-octylphthalate	149	10.207	10.207	(0.903)	1421385	33.8808	1120
95 Benzo(b)fluoranthene	252	10.789	10.784	(0.955)	1168079	34.1863	1140
96 Benzo(k)fluoranthene	252	10.823	10.818	(0.958)	1196893	36.4747	1210
97 Benzo(a)pyrene	252	11.223	11.218	(0.993)	1062160	34.9450	1160
99 Indeno(1,2,3-cd)pyrene	276	13.048	13.043	(1.155)	936814	30.9224	1030
100 Dibenzo(a,h)anthracene	278	13.062	13.057	(1.156)	775878	32.0412	1060
101 Benzo(ghi)perylene	276	13.577	13.573	(1.202)	730815	28.2025	937
1 N-Methyl-N-nitrosomethylamine	74	2.507	2.488	(0.632)	167693	25.9789	863

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/HSD7.1/s010210.b/s7a0222.d
 Date: 02-JAN-2010 23:19
 Client ID: RE16-10-2877MSD
 Sample Info: 11202005233193709611SYMF11.HSD
 Volume Injected (uL): 0.5
 Column phase: J&W DB-5MS

Instrument: HSD7.1
 Operator: JHB3
 Column diameter: 0.20



LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1036**

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: 936890

Prep Batch Number: 936888

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
243490001	RE12-10-7288
243490002	RE12-10-7290
243490003	RE12-10-7289
243490004	RE12-10-7291
243490005	RE12-10-7292
243490006	RE12-10-7293
243490007	RE12-10-7296
1202004626	Method Blank (MB)
1202004627	Laboratory Control Sample (LCS)
1202004628	243490001(RE12-10-7288) Matrix Spike (MS)
1202004629	243490001(RE12-10-7288) Matrix Spike Duplicate (MSD)

10-1036-EXPLCMS

Page 1 of 6

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 243490001 (RE12-10-7288) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

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Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Samples 243490001 (RE12-10-7288), 243490002 (RE12-10-7290), 243490003 (RE12-10-7289), 243490004 (RE12-10-7291), 243490005 (RE12-10-7292), 243490006 (RE12-10-7293), 1202004626(MB), 1202004627(LCS), 1202004628 (RE12-10-7288MS) and 1202004629 (RE12-10-7288MSD) were reanalyzed due to a bracketing CRI that did not meet acceptance criteria. The re-analysis passed acceptance criteria and is reported. The reanalysis data are reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS recovered 2,4-Diamino-6-nitrotoluene at 63.6% with recovery limits of 65-128%, 2,6-Diamino-4-nitrotoluene at 65.2% with recovery limits of 70-133% and TATB at 304% with limits of 47-166%. Since the Matrix Spike and Matrix Spike Duplicate both met acceptance limits for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, the data are reported. While TATB exhibited a high bias in the LCS and MS, the MSD met recovery limits, thus establishing method accuracy. Since TATB was not detected in the associated samples, the data are reported. Please see data exception report 779316.

QC Sample Designation

Sample 243490001 (RE12-10-7288) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered TATB at 308%. The recovery limits are 44-166%. While TATB exhibited a high bias in the LCS and MS, the MSD met recovery limits, thus establishing method accuracy. Since TATB was not detected in the associated samples, the data are reported. Please see data exception report 779316.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for TATB was 72.8%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 779316.

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

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Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 779316 was generated for this SDG.

The LCS recovered 2,4-Diamino-6-nitrotoluene at 63.6% with recovery limits of 65-128%, 2,6-Diamino-4-nitrotoluene at 65.2% with recovery limits of 70-133% and TATB at 304% with limits of 47-166%. Since the Matrix Spike and Matrix Spike Duplicate both met acceptance limits for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, the data are reported. While TATB exhibited a high bias in the LCS and MS, the MSD met recovery limits, thus establishing method accuracy. Since TATB was not detected in the associated samples, the data are reported.

The MS recovered TATB at 308%. The recovery limits are 44-166%. While TATB exhibited a high bias in the LCS and MS, the MSD met recovery limits, thus establishing method accuracy. Since TATB was not detected in the associated samples, the data are reported.

The MS/MSD RPD for TATB was 72.8%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

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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: 01/13/10

SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108139a

Date Analyzed: 11-JAN-10 13:07

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: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050100.wiff

Date Analyzed: 06-JAN-10 16:31

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7290

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108142a

Date Analyzed: 11-JAN-10 14:36

Units: ug/kg

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

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7290

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050103.wiff

Date Analyzed: 06-JAN-10 17:18

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108143a

Date Analyzed: 11-JAN-10 15:05

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050104.wiff

Date Analyzed: 06-JAN-10 17:34

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108144a

Date Analyzed: 11-JAN-10 15:35

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXSQ1050105.wiff

Date Analyzed: 06-JAN-10 17:49

Units: ug/kg

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

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108145a

Date Analyzed: 11-JAN-10 16:04

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050106.wiff

Date Analyzed: 06-JAN-10 18:05

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: RE12-10-7293

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108146a

Date Analyzed: 11-JAN-10 16:34

Units: ug/kg

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

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7293

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050107.wiff

Date Analyzed: 06-JAN-10 18:21

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108094a

Date Analyzed: 10-JAN-10 14:59

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: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050111.wiff

Date Analyzed: 06-JAN-10 19:24

Units: ug/kg

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

*Concentration =

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

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1036Lab Code: GELHPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
243490001	RE12-10-7288	99.9	73.7 - 133.3	
243490001	RE12-10-7288	104	73.7 - 133.3	
243490002	RE12-10-7290	98.4	73.7 - 133.3	
243490002	RE12-10-7290	105	73.7 - 133.3	
243490003	RE12-10-7289	97.9	73.7 - 133.3	
243490003	RE12-10-7289	106	73.7 - 133.3	
243490004	RE12-10-7291	99.7	73.7 - 133.3	
243490004	RE12-10-7291	107	73.7 - 133.3	
243490005	RE12-10-7292	106	73.7 - 133.3	
243490005	RE12-10-7292	111	73.7 - 133.3	
243490006	RE12-10-7293	106	73.7 - 133.3	
243490006	RE12-10-7293	107	73.7 - 133.3	
243490007	RE12-10-7296	101	73.7 - 133.3	
243490007	RE12-10-7296	107	73.7 - 133.3	
1202004626	MB for batch 936888	120	73.7 - 133.3	
1202004626	MB for batch 936888	111	73.7 - 133.3	
1202004627	LCS for batch 936888	111	73.7 - 133.3	
1202004627	LCS for batch 936888	109	73.7 - 133.3	
1202004628	RE12-10-7288(243490001MS)	106	73.7 - 133.3	
1202004628	RE12-10-7288(243490001MS)	103	73.7 - 133.3	
1202004629	RE12-10-7288(243490001MSD)	96.5	73.7 - 133.3	
1202004629	RE12-10-7288(243490001MSD)	104	73.7 - 133.3	

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) 10-1036

Extract Batch Code: 936888

Date Extracted: 30-DEC-09

GEL LCS ID: 1202004627

GEL LCSDUP ID:

Analysis Date/Time: 11-JAN-10 12:38

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	5000	5100	102					62.1 – 124
2,4,6-Trinitrotoluene	5000	5730	115					78.3 – 132
2,4-Dinitrotoluene	5000	4700	93.9					82.7 – 132
2,6-Dinitrotoluene	5000	4610	92.2					86.9 – 122
2-Amino-4,6-dinitrotoluene	5000	5570	111					84.2 – 149
4-Amino-2,6-dinitrotoluene	5000	5050	101					85.6 – 133
HMX	5000	4950	98.9					66.5 – 142
Nitrobenzene	5000	4210	84.1					71.8 – 126
PETN	5000	5250	105					64.6 – 147
RDX	5000	5190	104					78.7 – 144
Tetryl	5000	4000	80.1					31.2 – 119
m-Dinitrobenzene	5000	4720	94.4					80.9 – 127
m-Nitrotoluene	5000	3820	76.4					71.9 – 126
o-Nitrotoluene	5000	4320	86.4					75 – 123
p-Nitrotoluene	5000	4190	83.8					73.7 – 124

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) 10-1036

Extract Batch Code: 936888

Date Extracted: 30-DEC-09

GEL LCS ID: 1202004627

GEL LCSDUP ID:

Analysis Date/Time: 06-JAN-10 16:15

DUP Analysis Date/Time:

Reporting Units: ug/kg

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec	#	LCSD Conc	LCSD Rec	#	RPD	#	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	5000	3180	63.6	*							64.8 – 128
2,6-Diamino-4-nitrotoluene	5000	3260	65.2	*							69.6 – 133
3,5-Dinitroaniline	5000	5540	111								77.3 – 123
tris(o-cresyl) phosphate	5000	5330	107								84.3 – 120
TATB	5000	15200	304	*							46.8 – 166

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: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Extract Batch Code: 936888

Date Extracted: 30-DEC-09

GEL Spike ID: 1202004628

GEL SpikeDup ID: 1202004629

Analysis Date/Time: 11-JAN-10 13:37

MSD Analysis Date/Time:

Reporting Units: µg/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	4540	90.7	4730	94.5	4.14	30	70.7 - 130
2,4,6-Trinitrotoluene	5000	0	5410	108	4970	99.3	8.53	30	83.4 - 138
2,4-Dinitrotoluene	5000	0	5130	103	5330	107	3.7	30	79.1 - 137
2,6-Dinitrotoluene	5000	0	4770	95.4	4800	96	.63	30	85.4 - 125
2-Amino-4,6-dinitrotoluene	5000	0	5520	110	5990	120	8.17	30	77.4 - 154
4-Amino-2,6-dinitrotoluene	5000	0	4940	98.8	4910	98.3	.539	30	77.3 - 140
HMX	5000	0	4610	92.3	4980	99.6	7.68	30	66.7 - 144
Nitrobenzene	5000	0	4140	82.8	4260	85.3	2.9	30	70.4 - 129
PETN	5000	0	5740	115	5240	105	9.04	30	61.9 - 153
RDX	5000	0	4770	95.5	5130	103	7.15	30	73 - 140
Tetryl	5000	0	2410	48.2	2350	46.9	2.81	30	46.8 - 138
m-Dinitrobenzene	5000	0	4520	90.4	4900	98	8.05	30	83.5 - 126
m-Nitrotoluene	5000	0	4090	81.9	4280	85.7	4.54	30	68.6 - 135
o-Nitrotoluene	5000	0	4640	92.7	4360	87.2	6.11	30	71.2 - 131
p-Nitrotoluene	5000	0	4360	87.2	4560	91.2	4.58	30	69.3 - 133

#Column to be used to flag recovery and RPD values with an asterisk

3
High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Extract Batch Code: 936888

Date Extracted: 30-DEC-09

GEL Spike ID: 1202004628

GEL SpikeDup ID: 1202004629

Analysis Date/Time: 06-JAN-10 16:47

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Diamino-6-nitrotoluene	5000	0	3820	76.4	4210	84.2	9.71	30	51.6 - 127
2,6-Diamino-4-nitrotoluene	5000	0	3660	73.2	4380	87.6	17.9	30	58.9 - 135
3,5-Dinitroaniline	5000	0	5310	106	5620	112	5.67	30	72.8 - 125
tris(o-cresyl) phosphate	5000	0	5330	107	5200	104	2.47	30	79.1 - 124
TATB	5000	0	15400	308 *	7180	144	72.8 *	30	43.9 - 166

#Column to be used to flag recovery and RPD values with an asterisk

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1036Lab Code: GELLab Sample ID: XIBLK01Analysis Date: 08-JAN-10 17:15GEL Data File: EXP0108001aInstrument ID: LCMSMSColumn: 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	483.878
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	501.47
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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Calibration: Untitled, Time: Sat Jan 09 12:01:37 2010

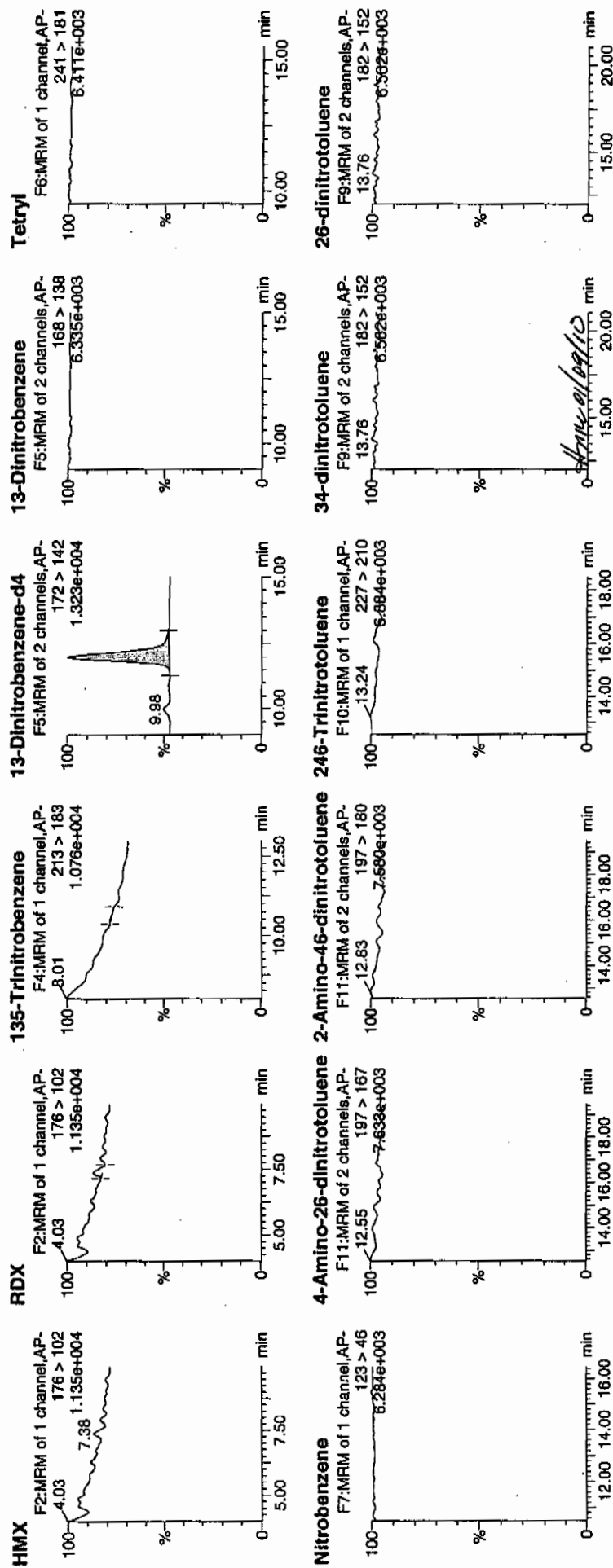
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Date: 08-Jan-2010

Time: 17:15:04

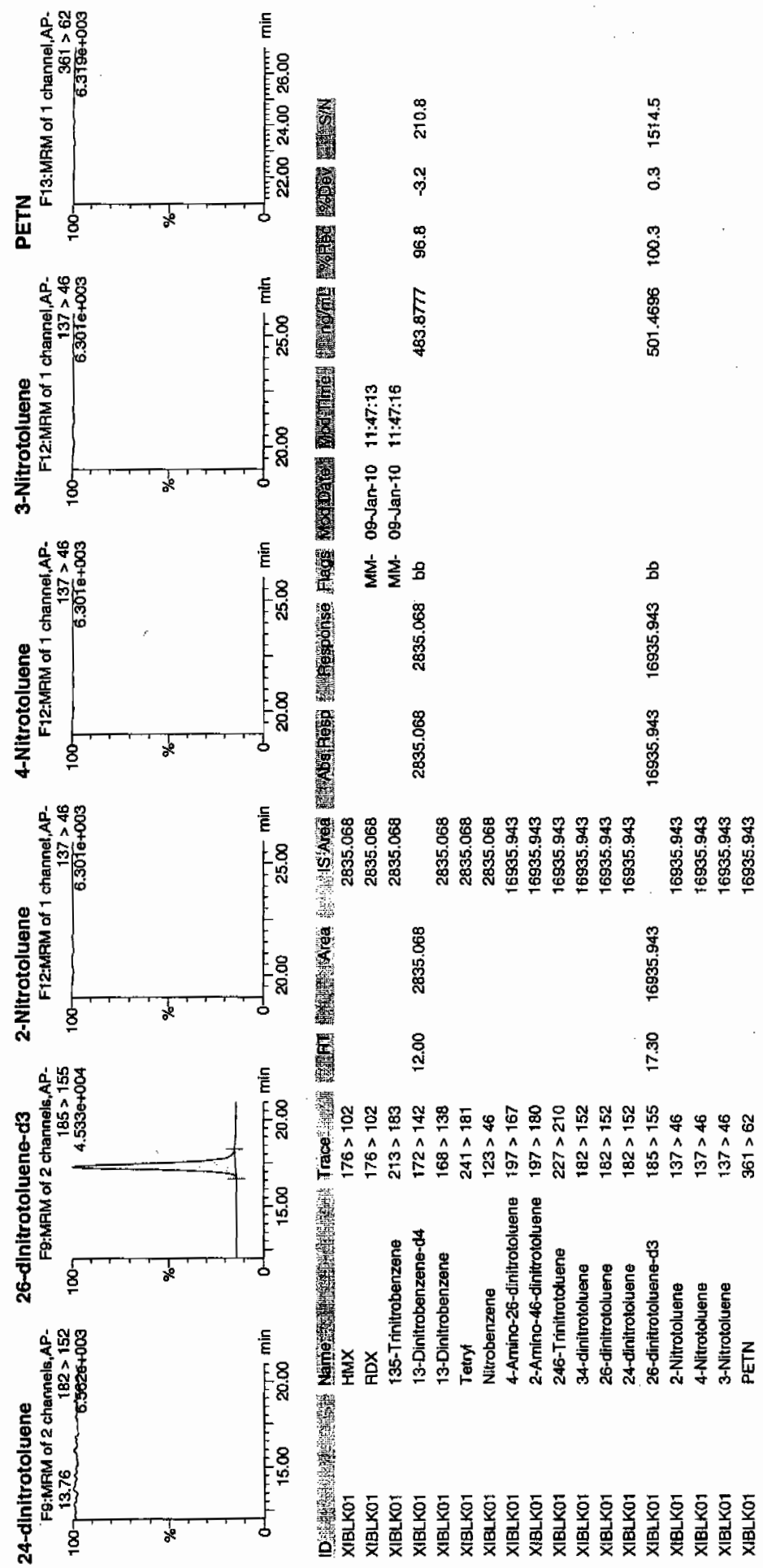
ID: XIBLK01

Vial: 1:1,A

WAP
1/9/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV010810expA.qld, Time: Sat Jan 09 12:01:37 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1036Lab Code: GELLab Sample ID: XIBLK01Analysis Date: 08-JAN-10 17:44GEL Data File: EXP0108002aInstrument ID: LCMSMSColumn: 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	481.722
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	602.181
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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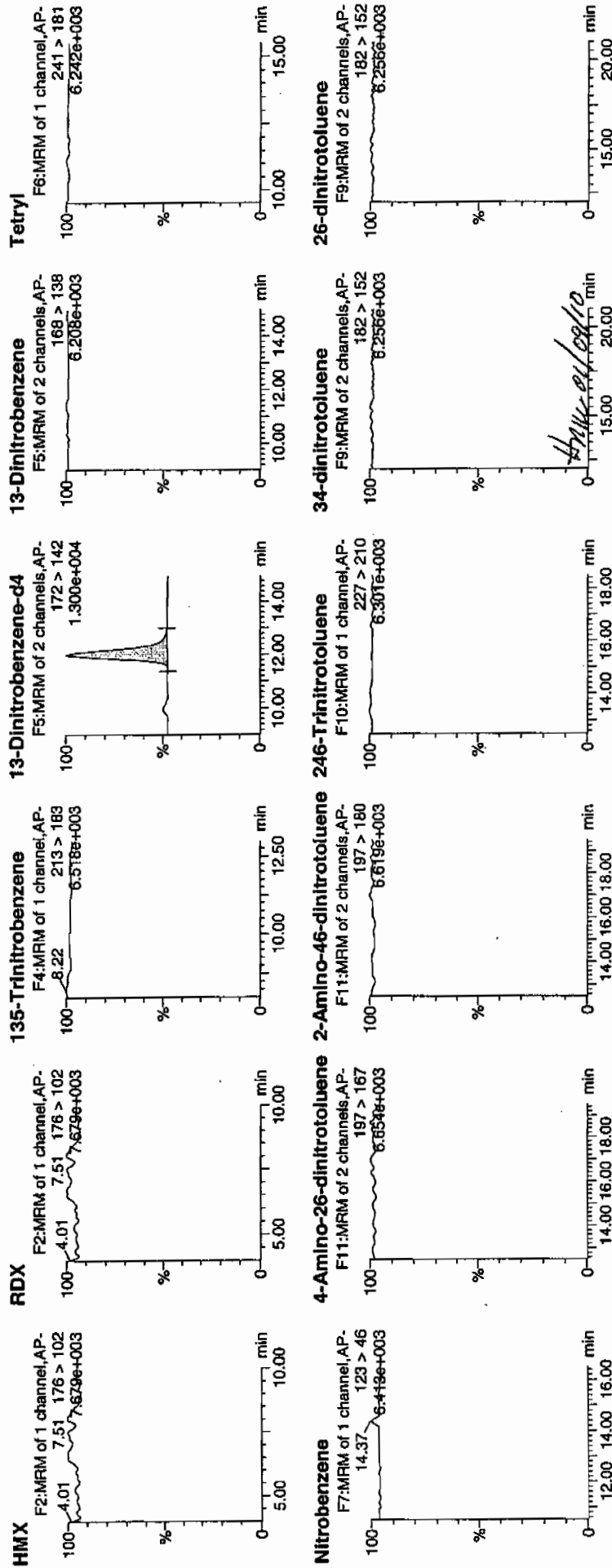
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Time: 17:44:36

ID: XIBLK01

Vial: 1:1,A

1/9/10
1/9/10

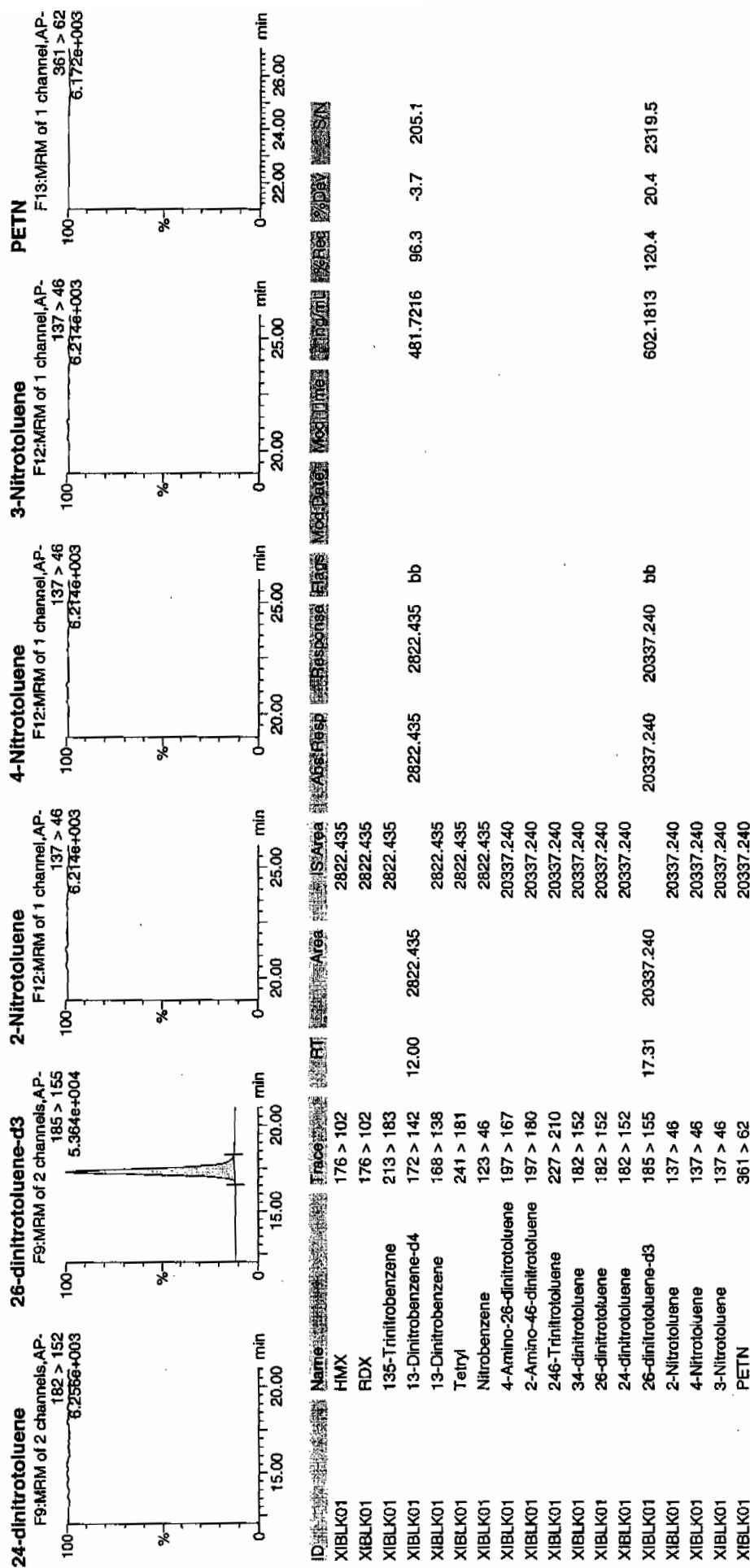


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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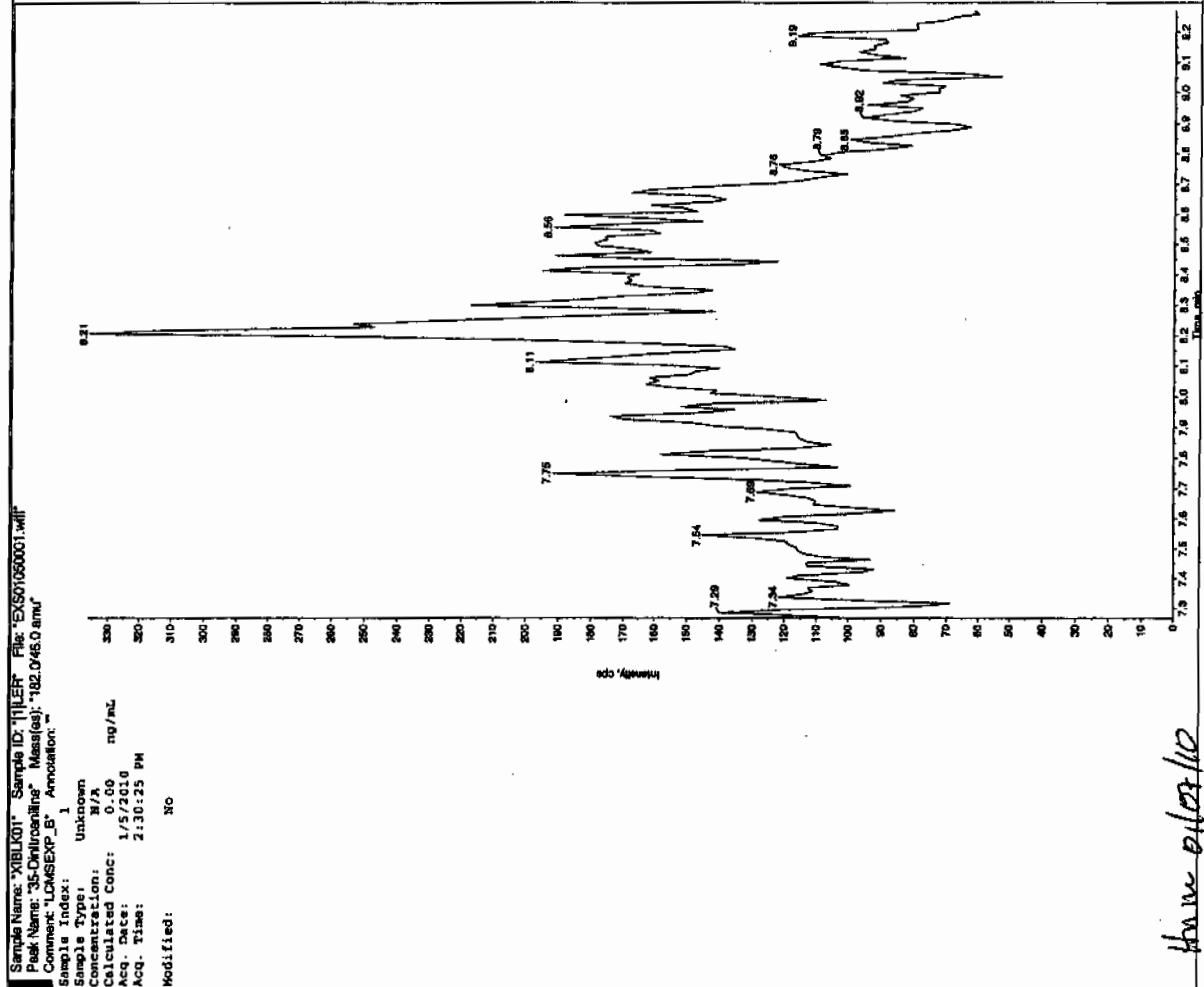


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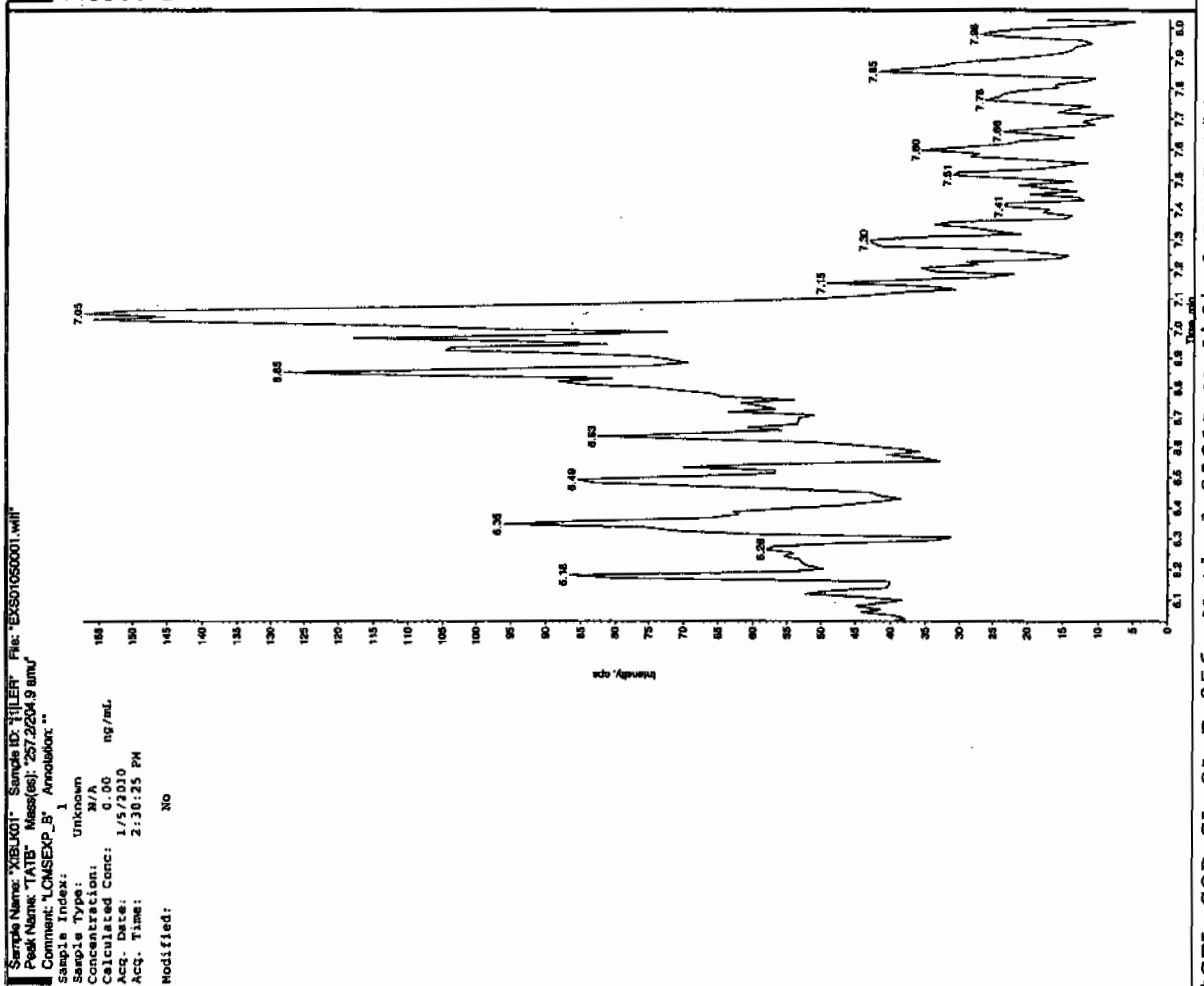
Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1036Lab Code: GELLab Sample ID: XIBLK01Analysis Date: 05-JAN-10 14:30GEL Data File: EXS01050001.wiffInstrument ID: LCMSMSColumn: Phenomenex Ultracarb 5u ODS(20)

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

8/11/11
JAG



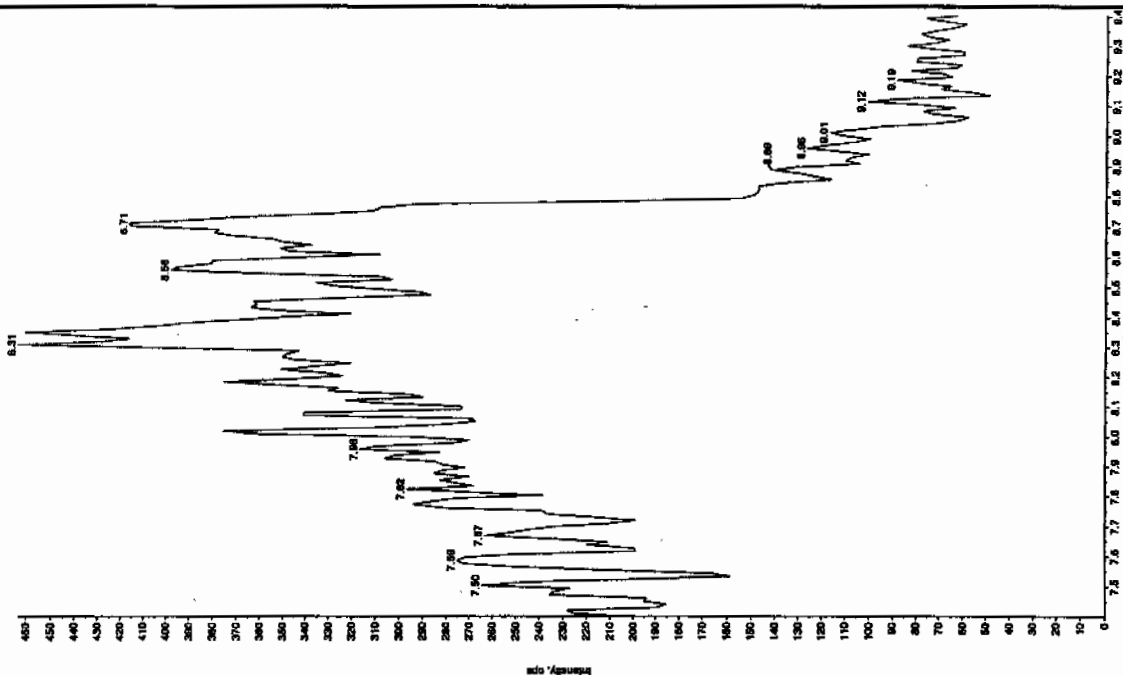
have after 10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

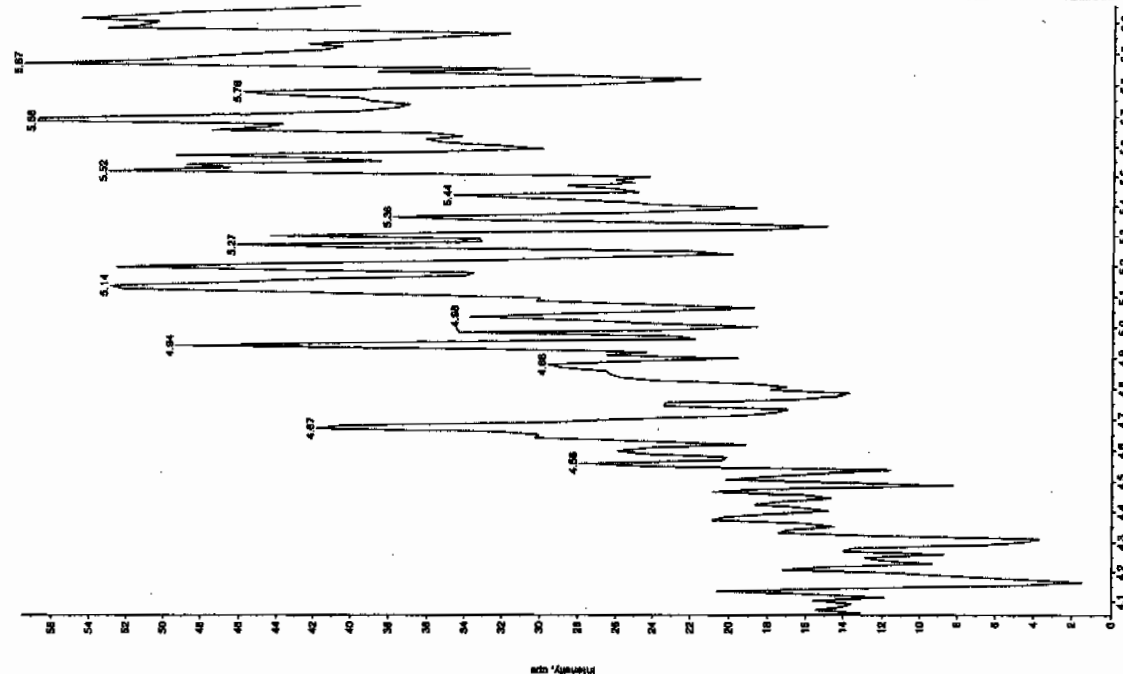
Sample Name: "XBLX01" Sample ID: "111111" File: "EXS01050001.wht"
 Peak Name: "34-Dinitrobenzo" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 2:30:25 PM
 Modified: No



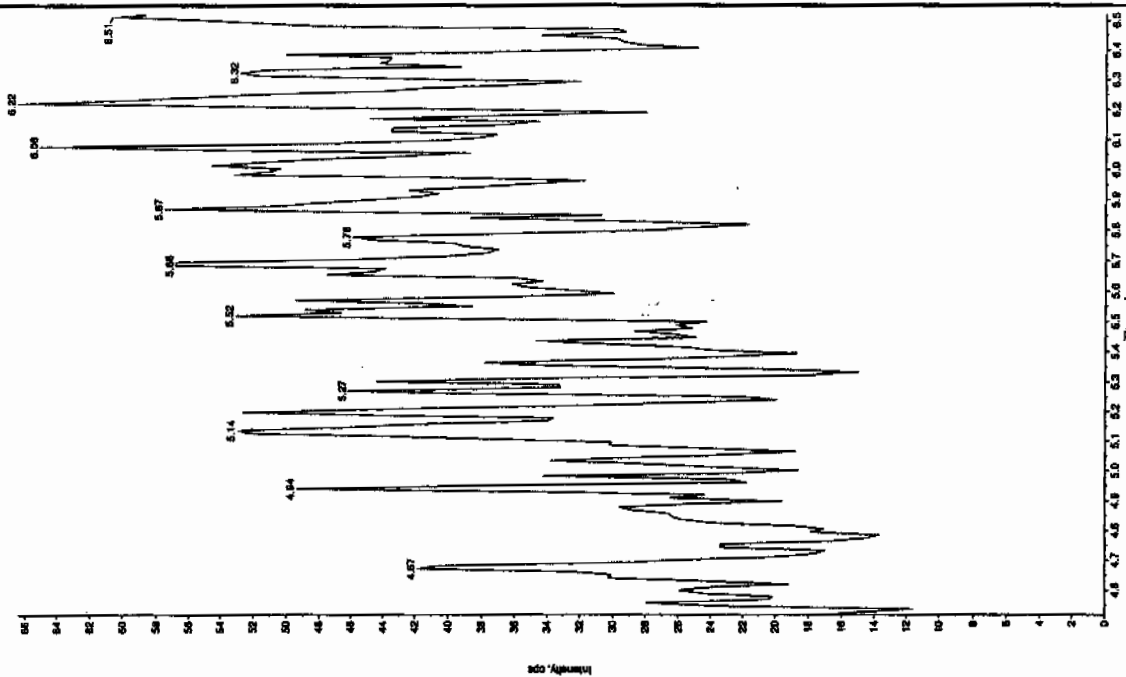
Sample Name: "XBLX01" Sample ID: "111111" File: "EXS01050001.wht"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "165.0/145.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 2:30:25 PM
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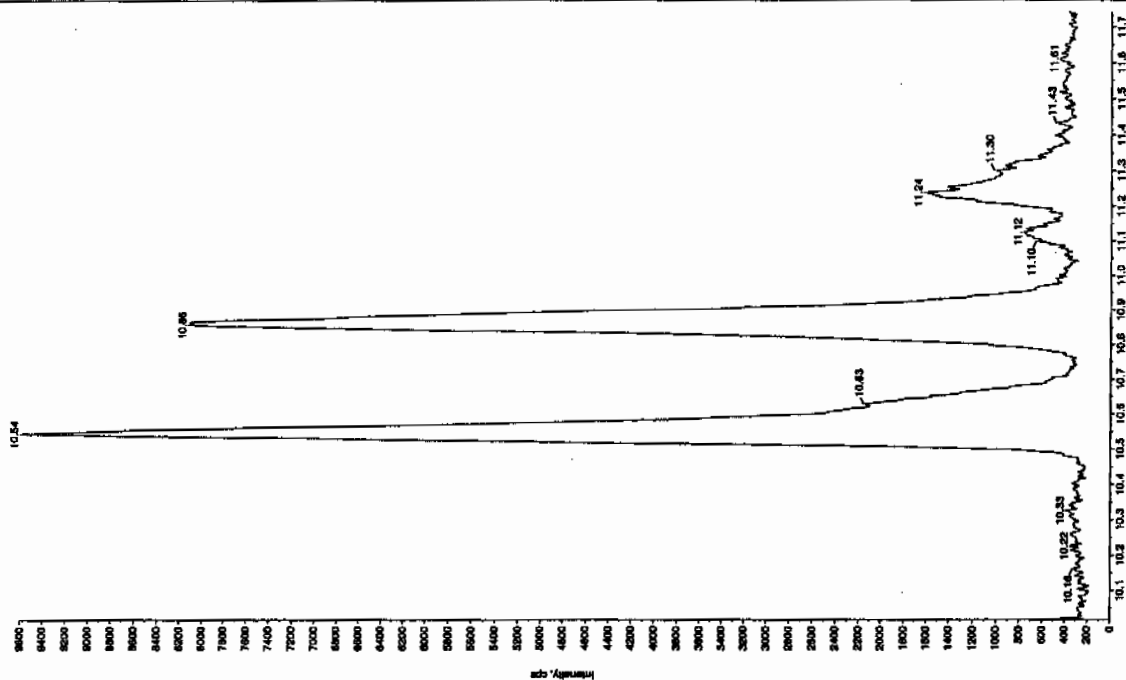
Sample Name: "XBLUGT" Sample ID: "11LEP" File: "EX301660001.wif"
 Peak Name: "24-Dinitro-2-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 2:30:25 PM
 Acq. Time: No
 Modified:



Sample Name: "XBLUGT" Sample ID: "11LEP" File: "EX301660001.wif"
 Peak Name: "tri(o-cresyl) phosphate" Mass(es): "358.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 2:30:25 PM
 Acq. Time: No
 Modified:



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1036Lab Code: GELLab Sample ID: XTBLK01Analysis Date: 05-JAN-10 14:46GEL Data File: EXS01050002.wiffInstrument ID: LCMSMSColumn: 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

802-11/12/10

Sample Name: "XBLK01" Sample ID: "111ER" File: "EXS01050002.wml"

Peak Name: "1A1B" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

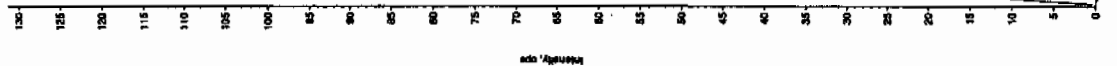
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 1/5/2010

Acq. Time: 2:46:12 PM

Modified: No



Sample Name: "XBLK01" Sample ID: "111ER" File: "EXS01050002.wml"

Peak Name: "35-Dinitroanis" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 1/5/2010

Acq. Time: 2:46:12 PM

Modified: No



47mL 21/07/10

Sample Name: "XIBUX01" Sample ID: "1111ER" File: "EX501050002.wif"

Peak Name: "34-Dinitro-4-nitrotoluene" Mass(es): "182.11519 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

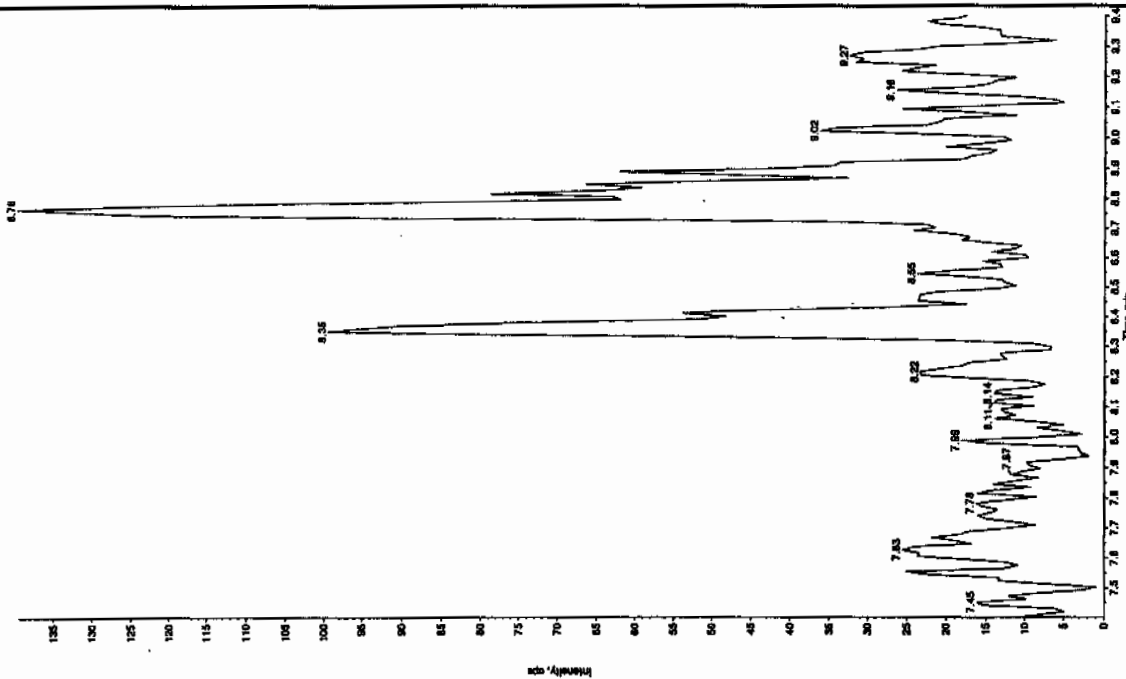
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 1/5/2010

Acq. Time: 2:46:12 PM

Modified: No



Sample Name: "XIBUX01" Sample ID: "1111ER" File: "EX501050002.wif"

Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "166.0460 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

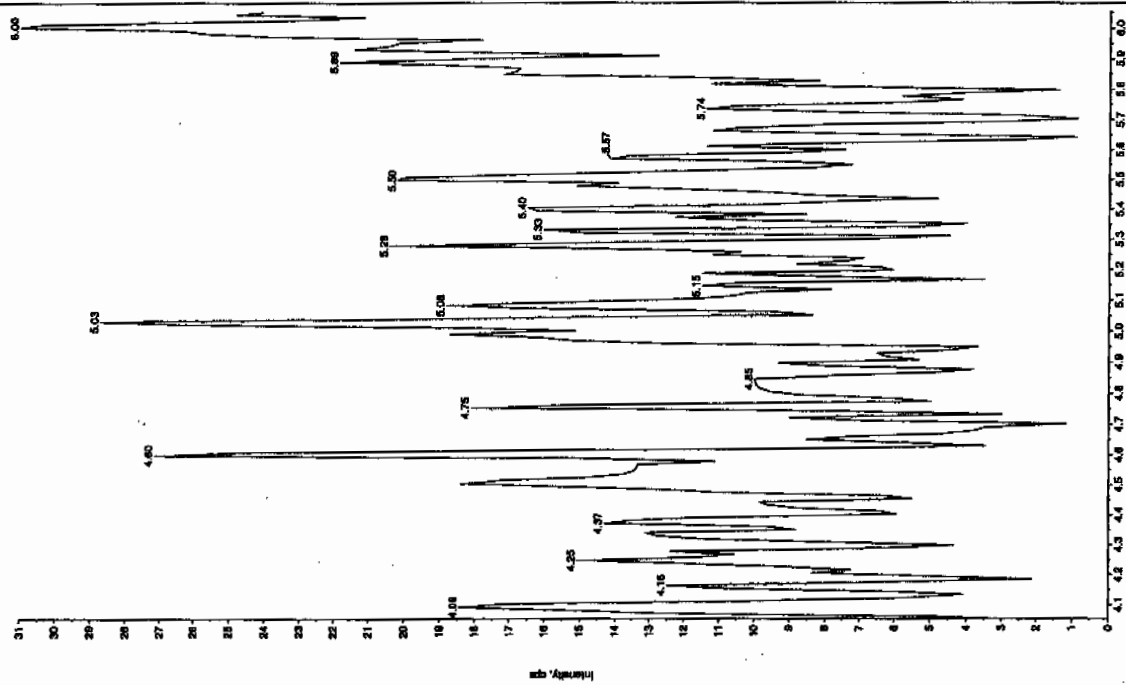
Concentration: N/A ng/mL

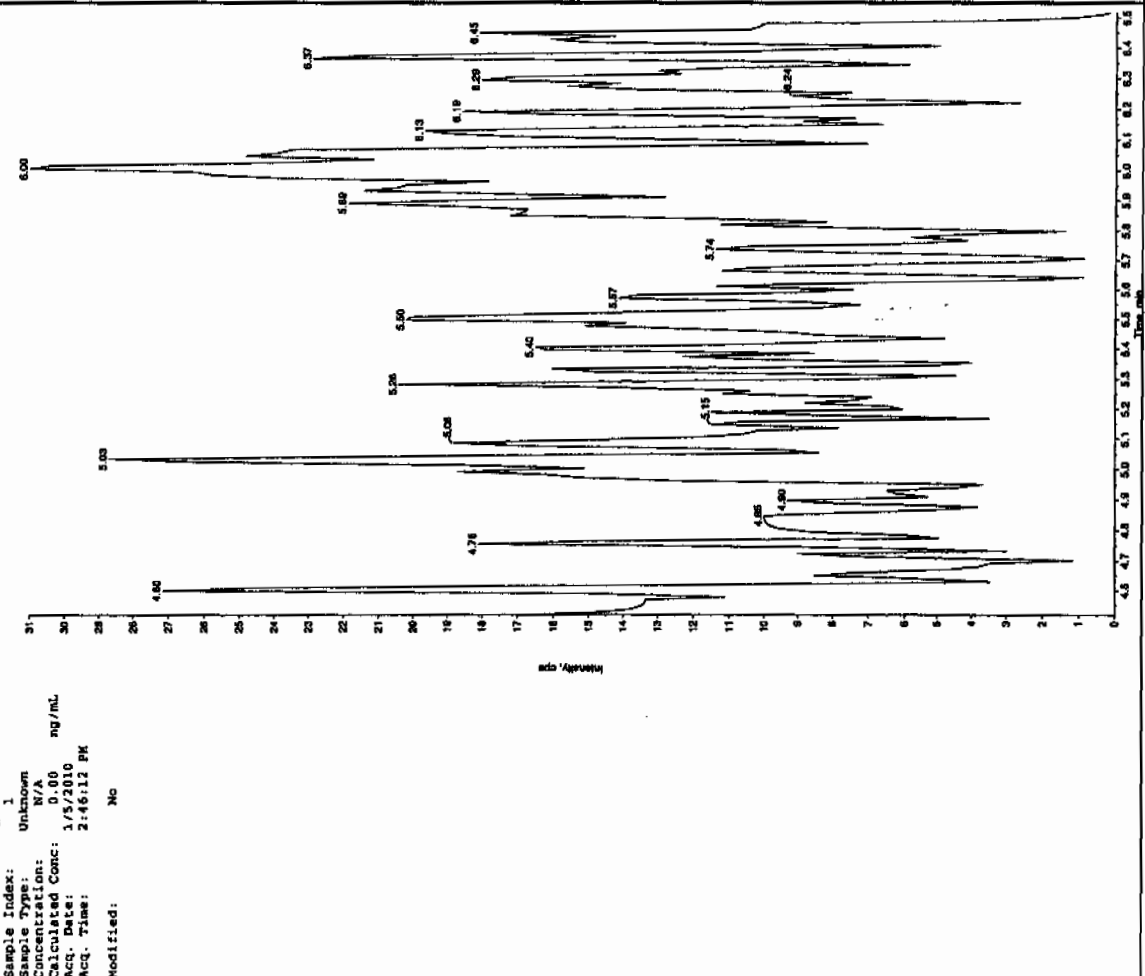
Calculated Conc: 0.00

Acq. Date: 1/5/2010

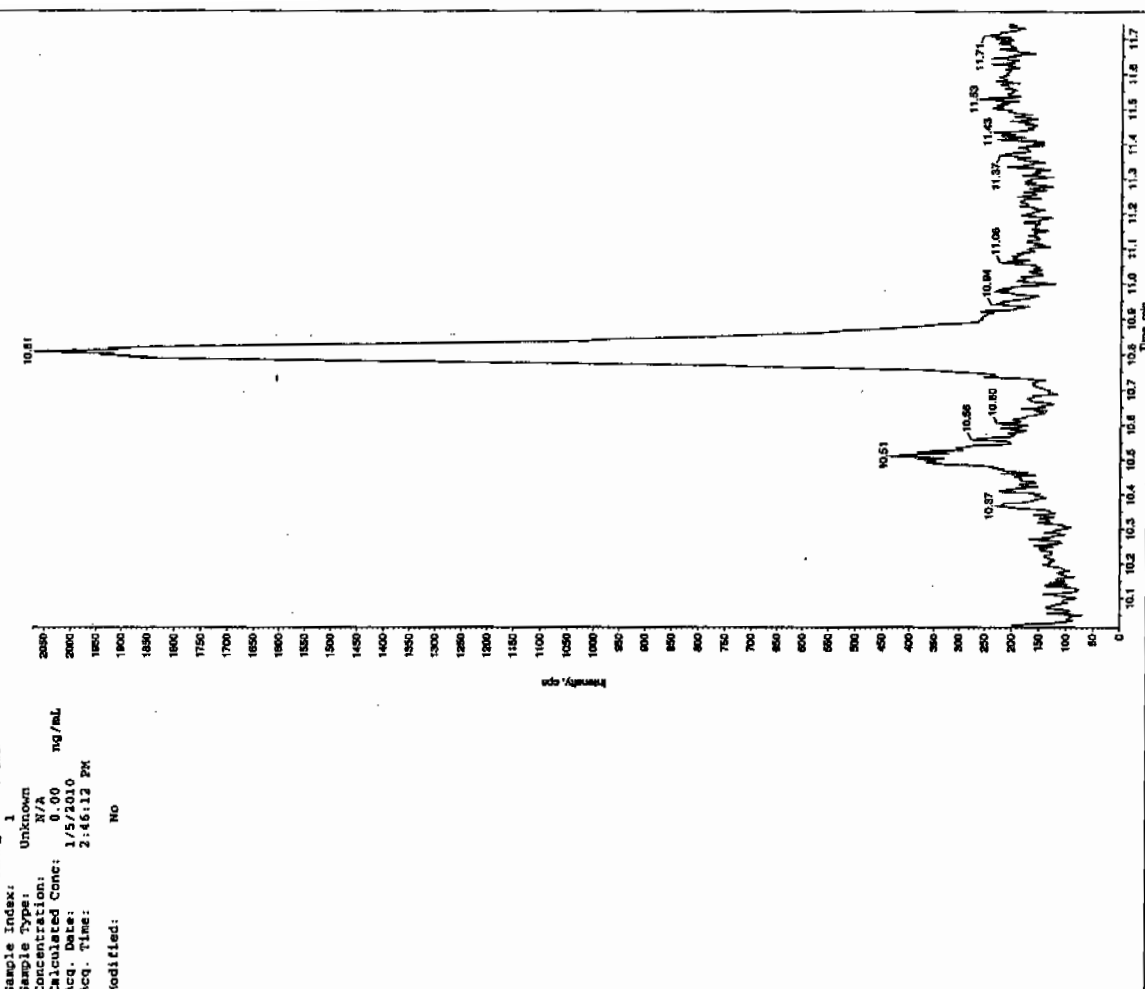
Acq. Time: 2:46:12 PM

Modified: No





Sample Name: "XIEUK01" Sample ID: "J1LER" File: "EXSD1050002.wiff"
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "359.1791.0 amu"
Comment: "LONSEXP_B" Annotation: ""



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 08-JAN-10 21:11

GEL Data File: EXP0108009a

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	521.887
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	494.811
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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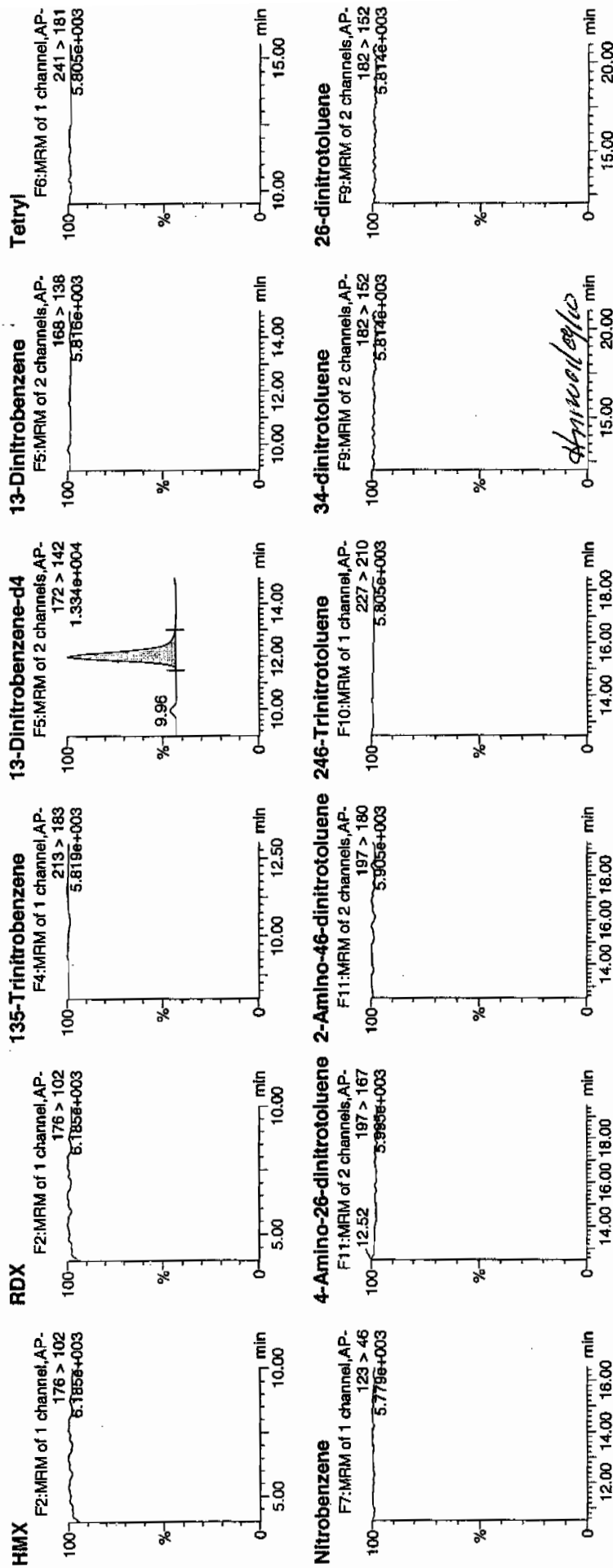
Date: 08-Jan-2010

Time: 21:11:10

ID: XIBLK02

Vial: 1:1,A

1/9/10

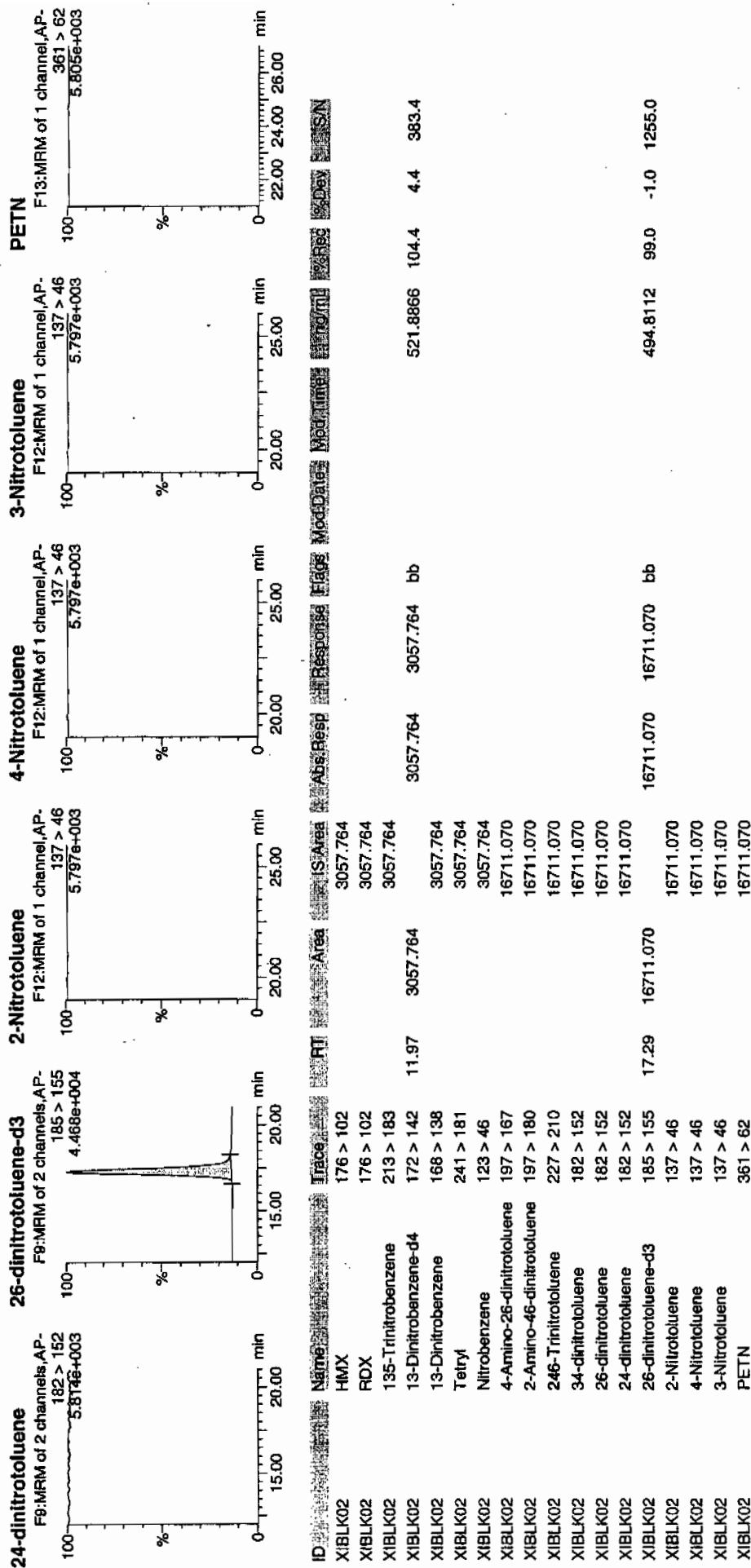


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Jan 09 12:02:23 2010, Page 18 of 61

Dataset: C:\MASSLYNX\New_Exp\PRO010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 08-JAN-10 22:10

GEL Data File: EXP0108011a

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	480.456
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	502.281
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108011a

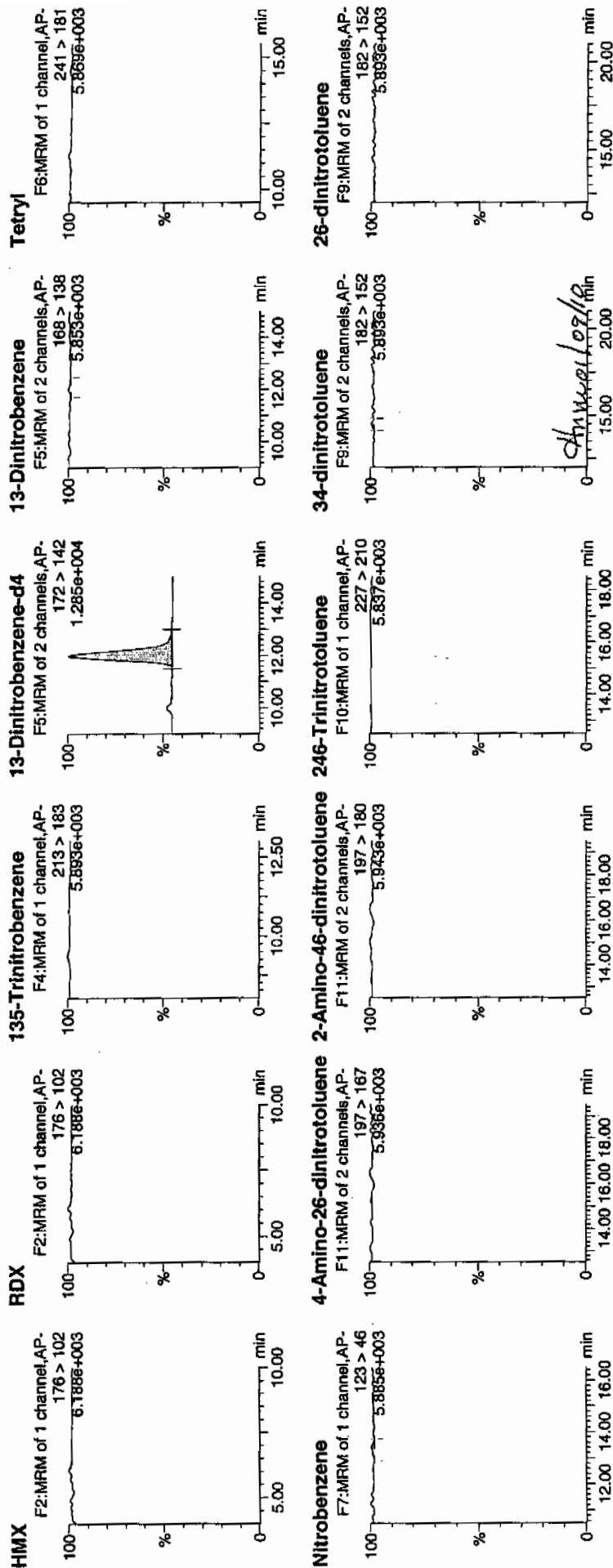
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Time: 22:10:07

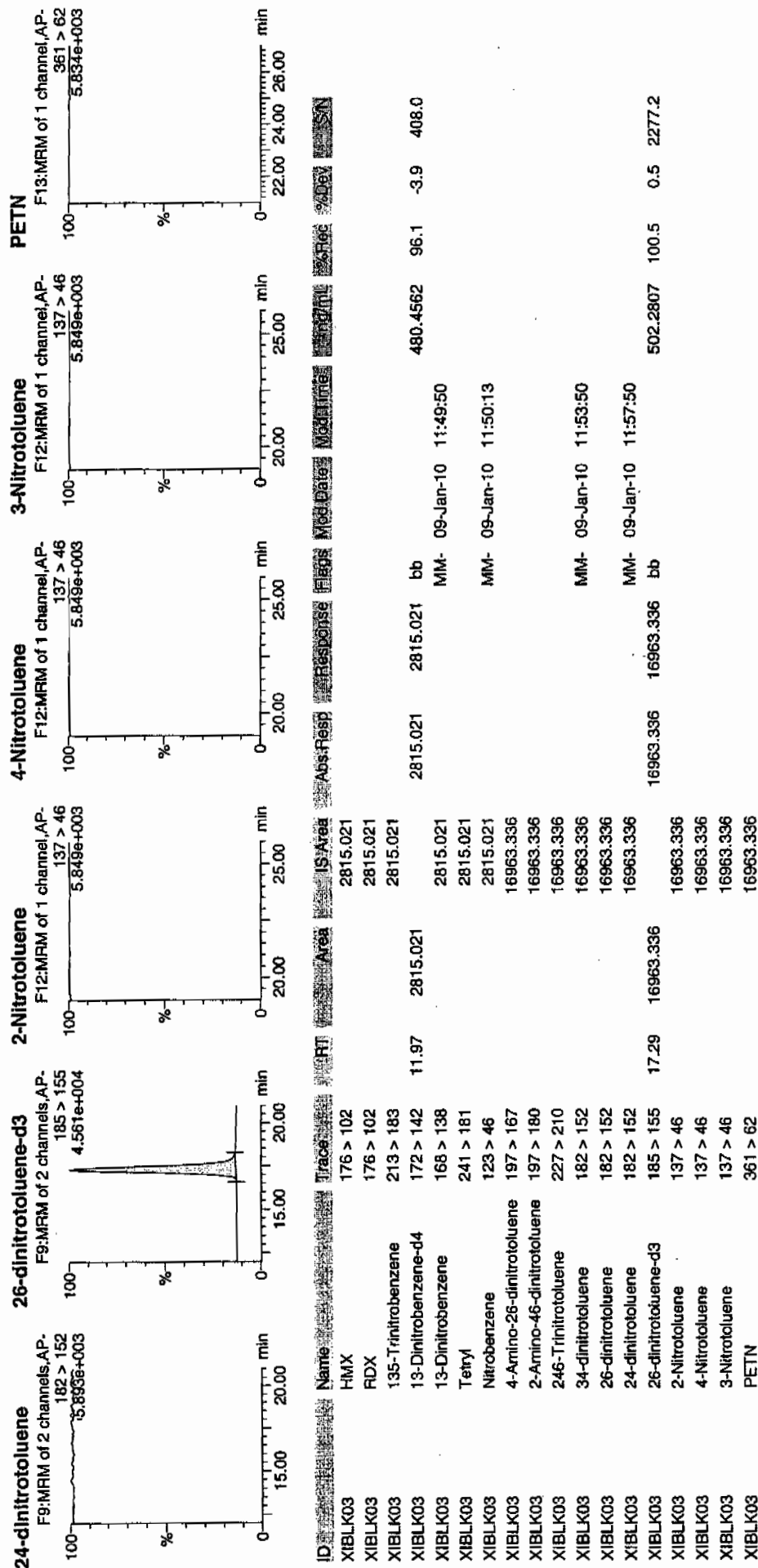
ID: XIBLK03

Vial: 1:1,A

1/9/10



Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 09-JAN-10 02:05

GEL Data File: EXP0108019a

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	564.671
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	483.622
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108019a

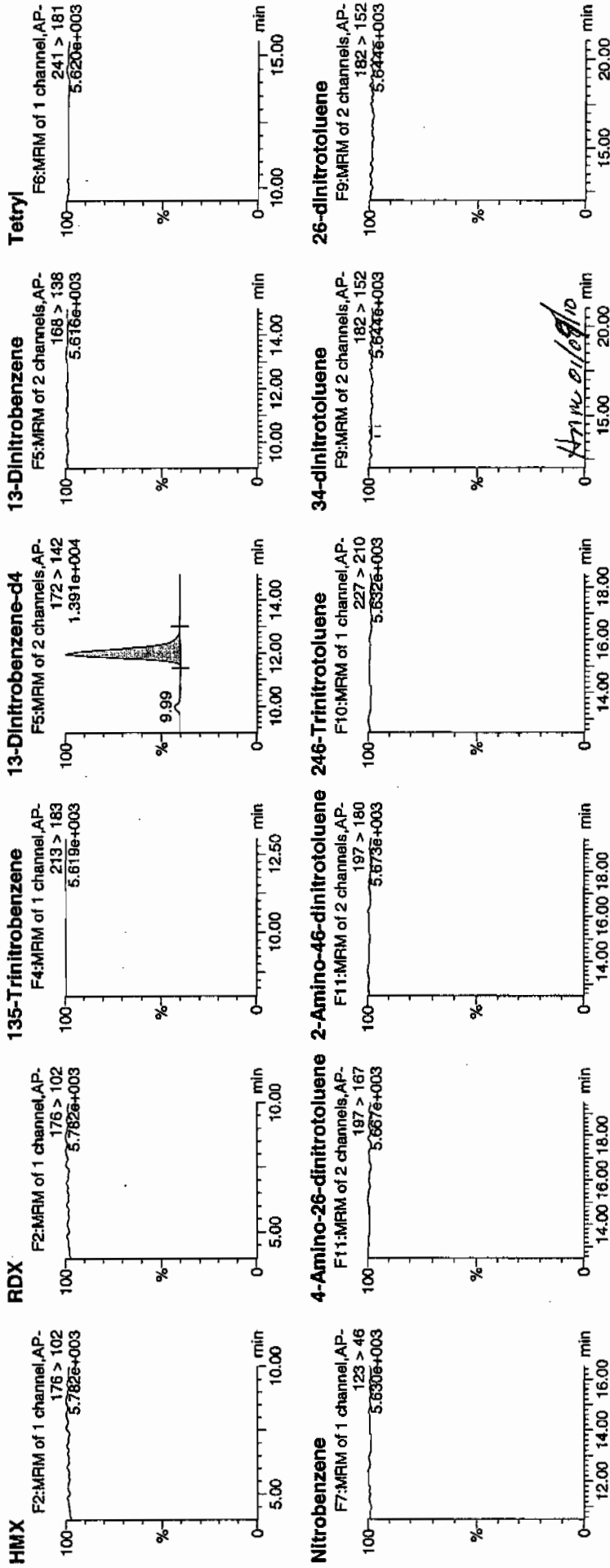
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Time: 02:05:56

ID: XIBLK04

Vial: 1:1,A

WFF
1/9/10

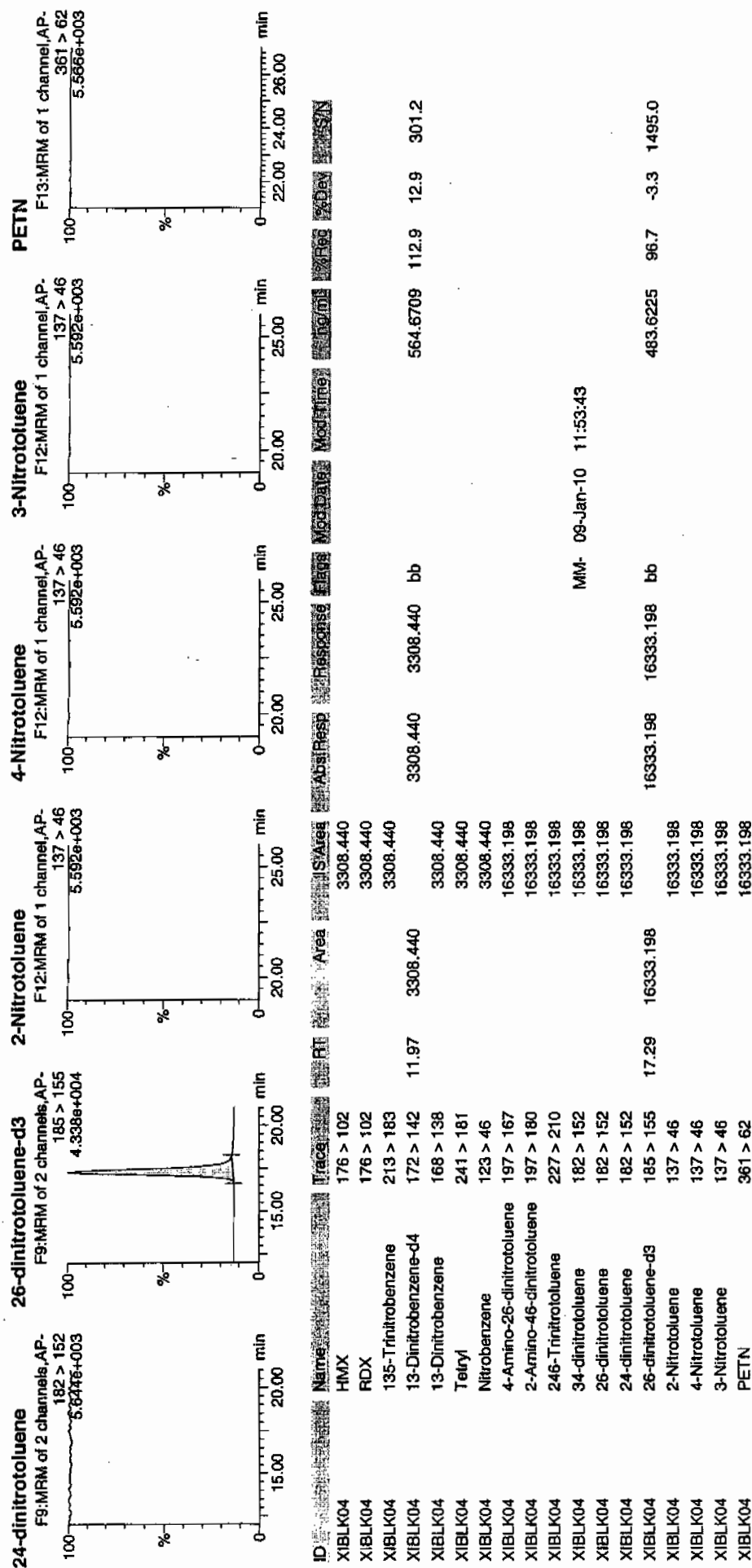


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Jan 09 12:02:23 2010, Page 38 of 61

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 09-JAN-10 07:00

GEL Data File: EXP0108029a

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	508.018
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	560.152
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108029a

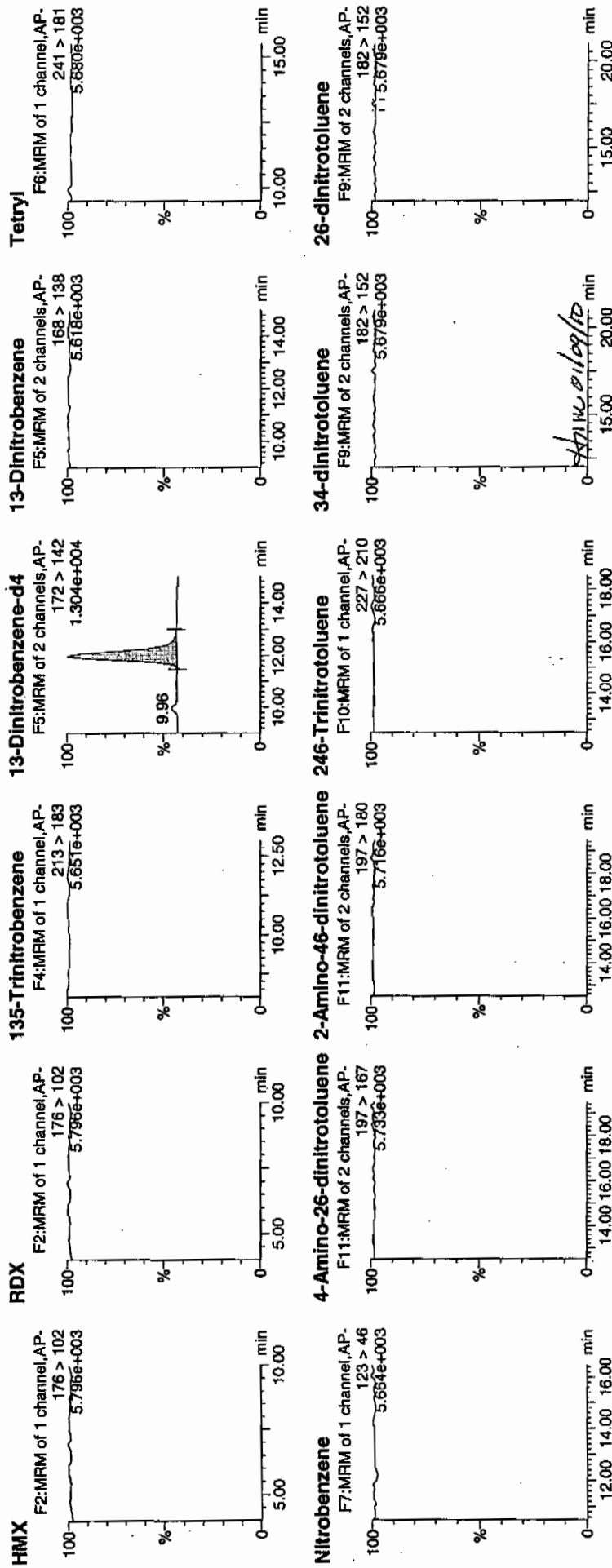
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Time: 07:00:47

ID: XIBLK05

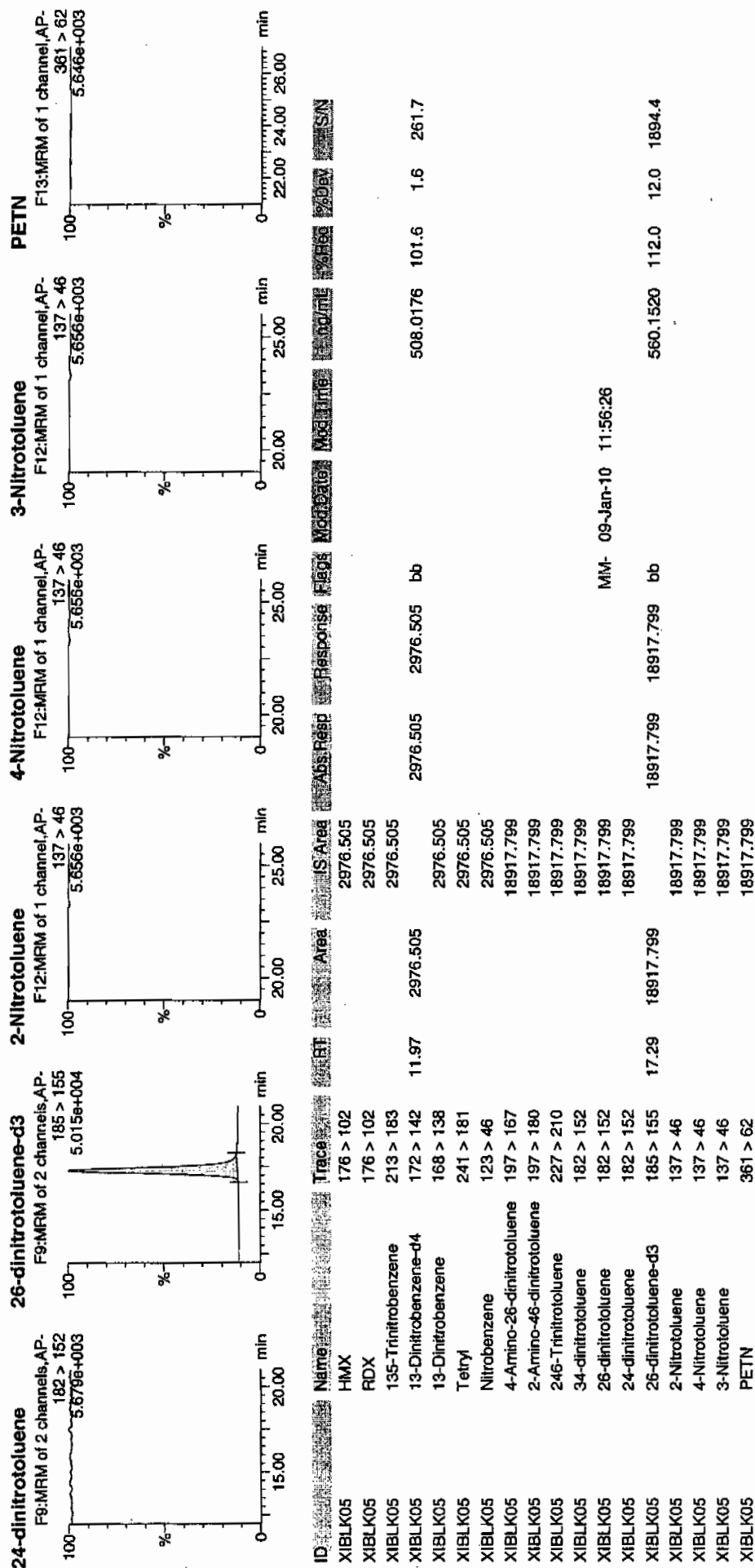
Vial: 11.A

11/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 09-JAN-10 13:24

GEL Data File: EXP0108042a

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	515.137
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	427.876
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108042a

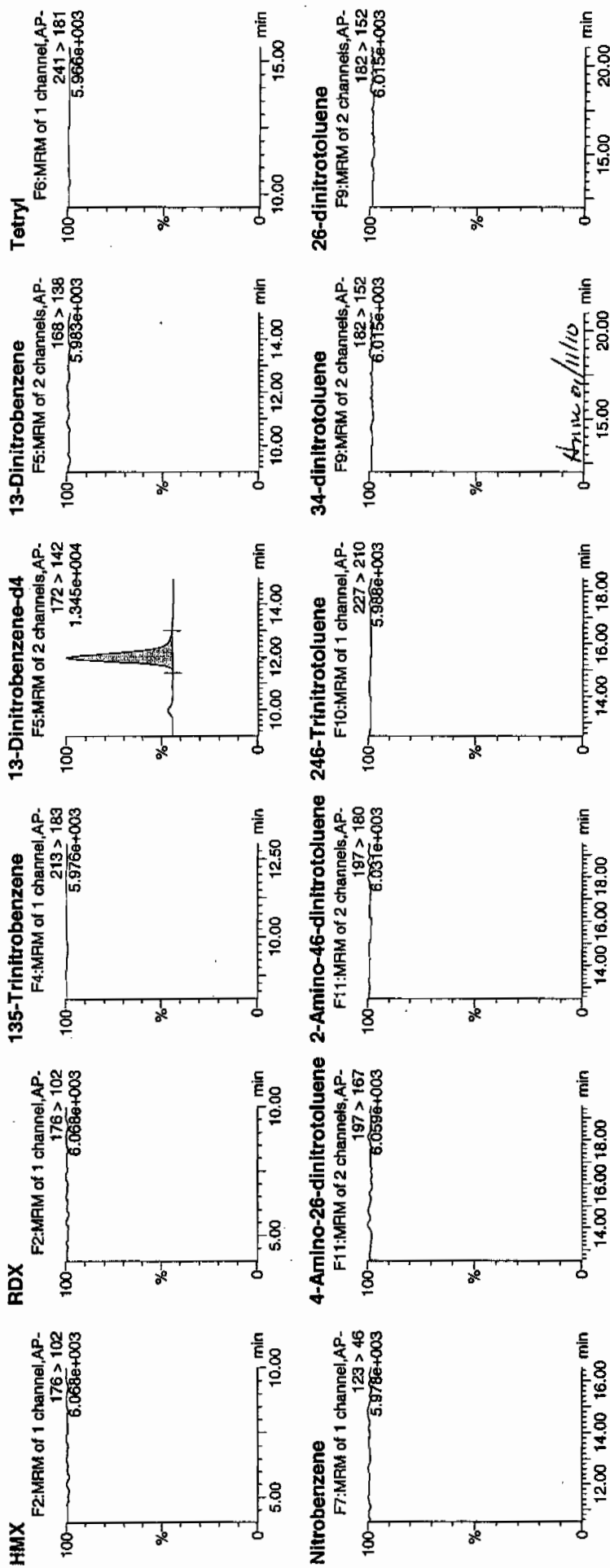
Date: 09-Jan-2010

Time: 13:24:19

ID: XIBLK06

Vial: 1:1,A

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1.111e+003

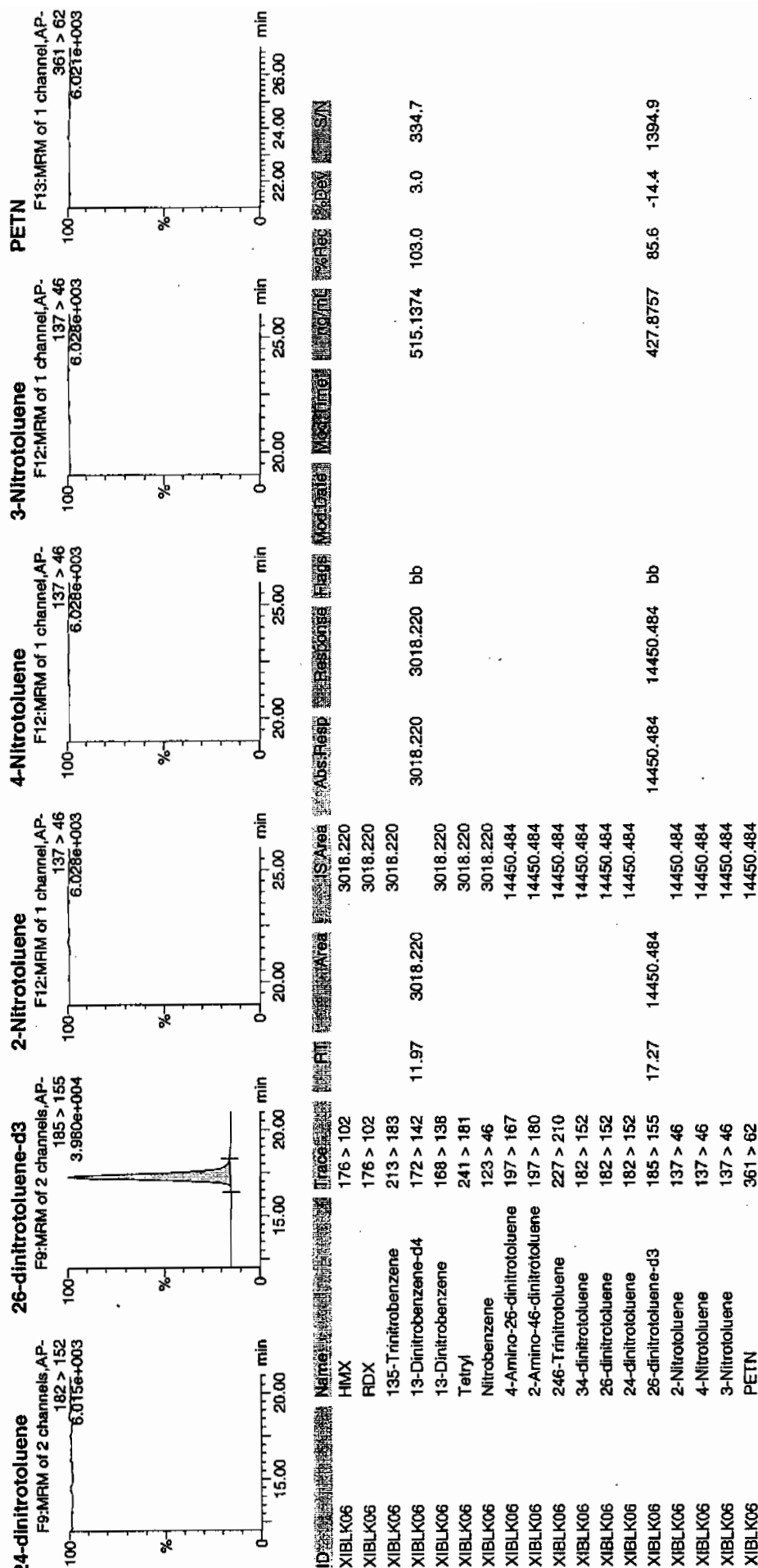


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 24 of 189

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XTBLK07

Analysis Date: 09-JAN-10 19:47

GEL Data File: EXP0108055a

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	364.583
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	439.777
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108055a

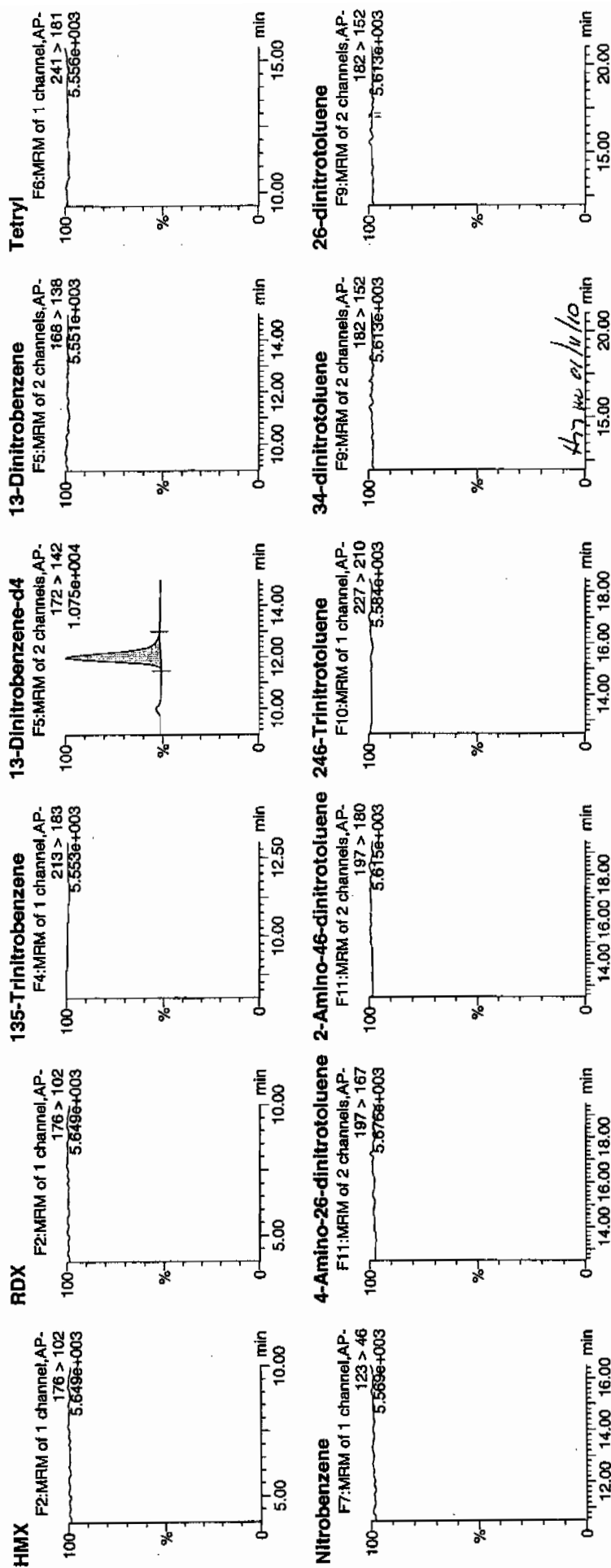
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Time: 19:47:54

ID: XIBLK07

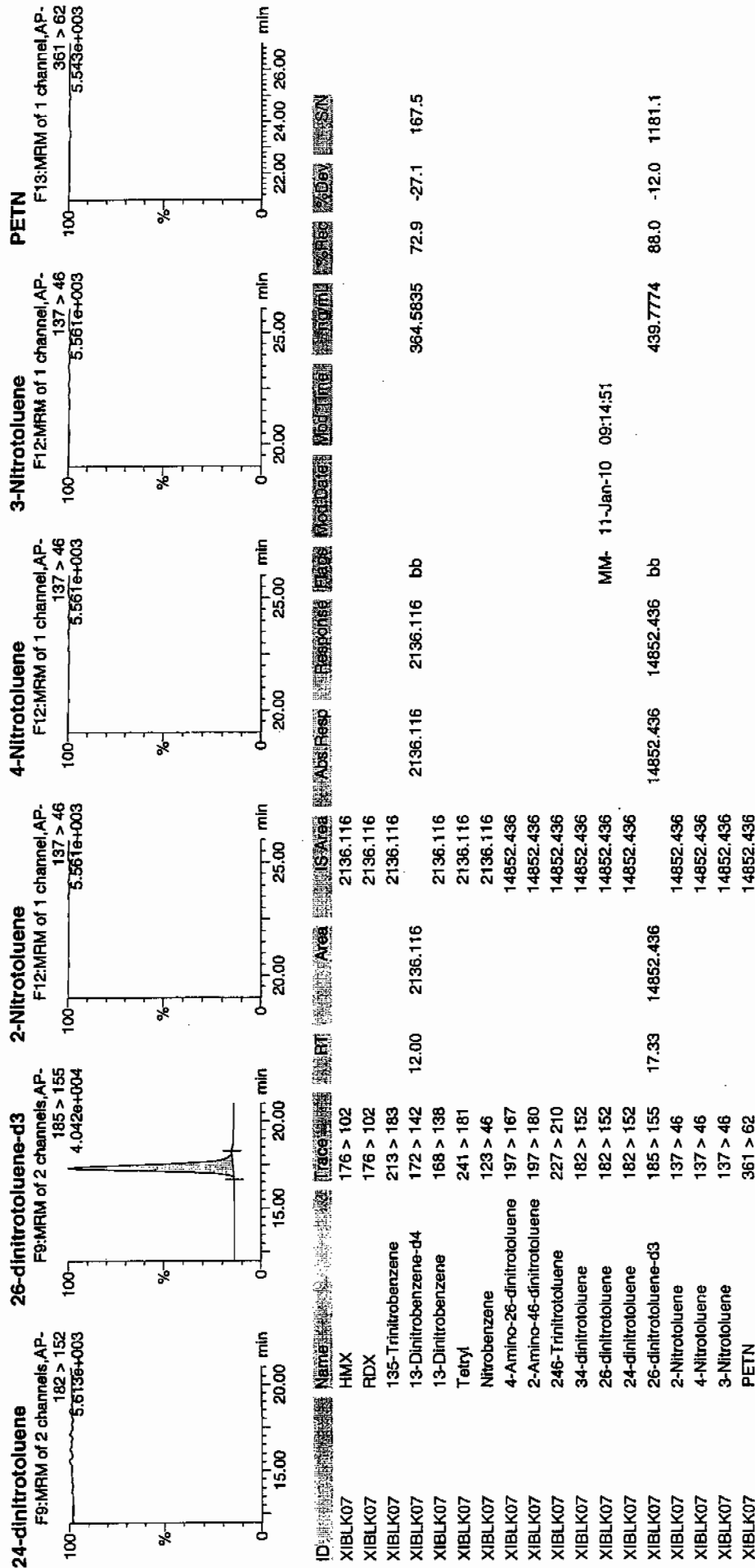
Vial: 1:1,A

1/11/10
MJP



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 09-JAN-10 21:16

GEL Data File: EXP0108058a

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	392.477
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	402.473
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108058a

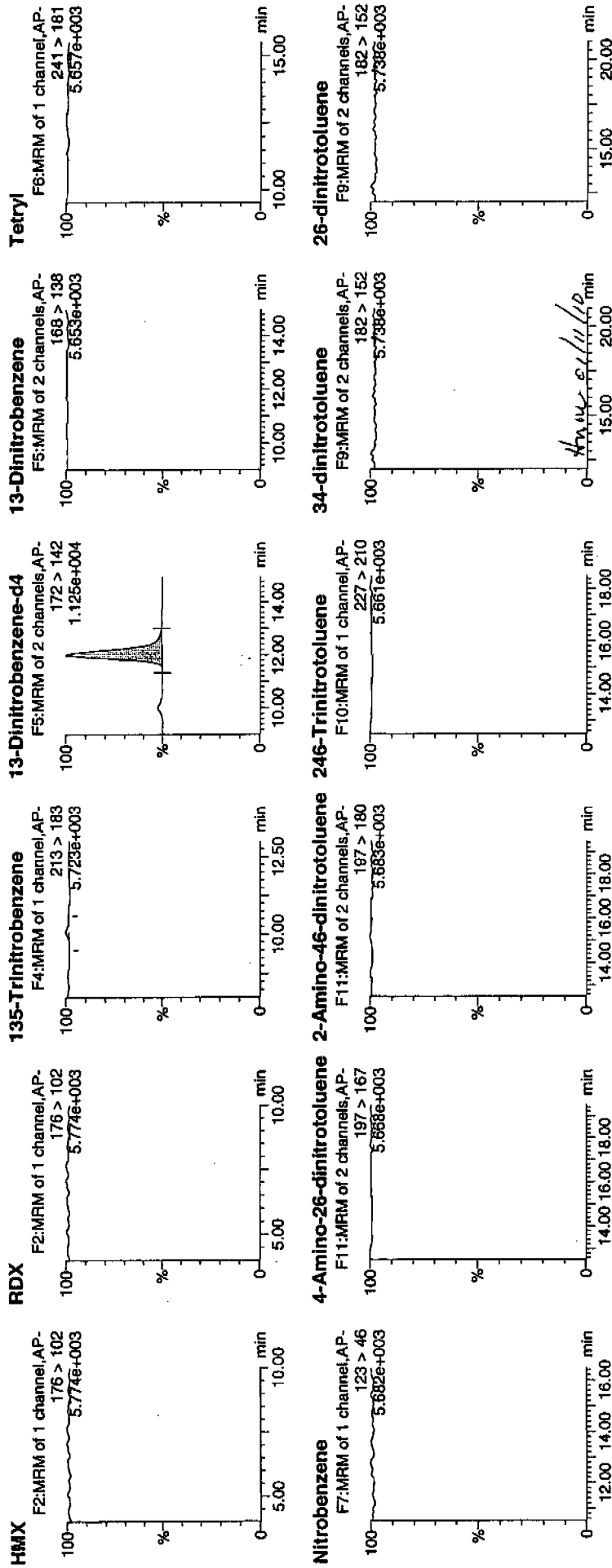
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Time: 21:16:54

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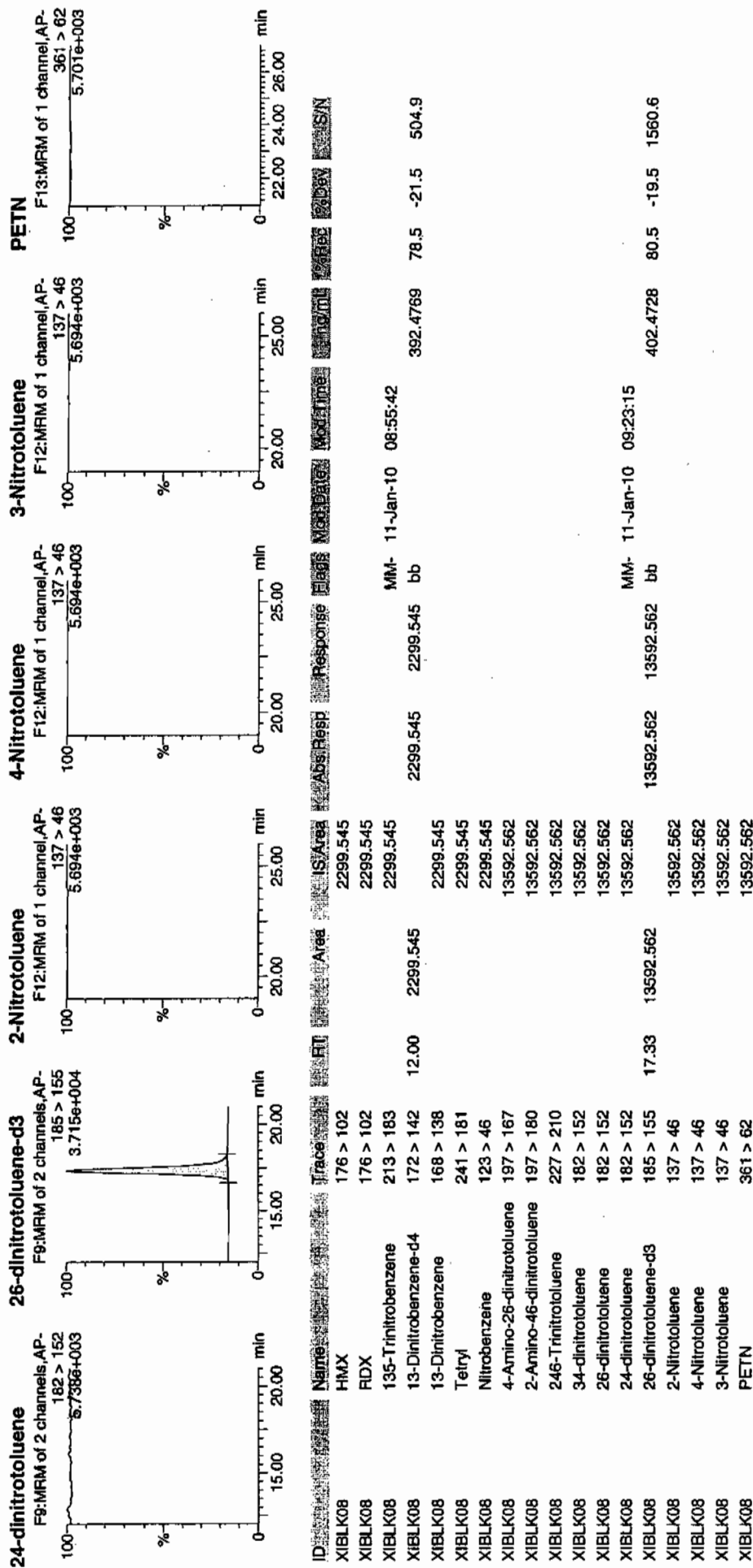
Vial: 1:1,A

11/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 10-JAN-10 01:43

GEL Data File: EXP0108067a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	442.74
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	480.722
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108067a

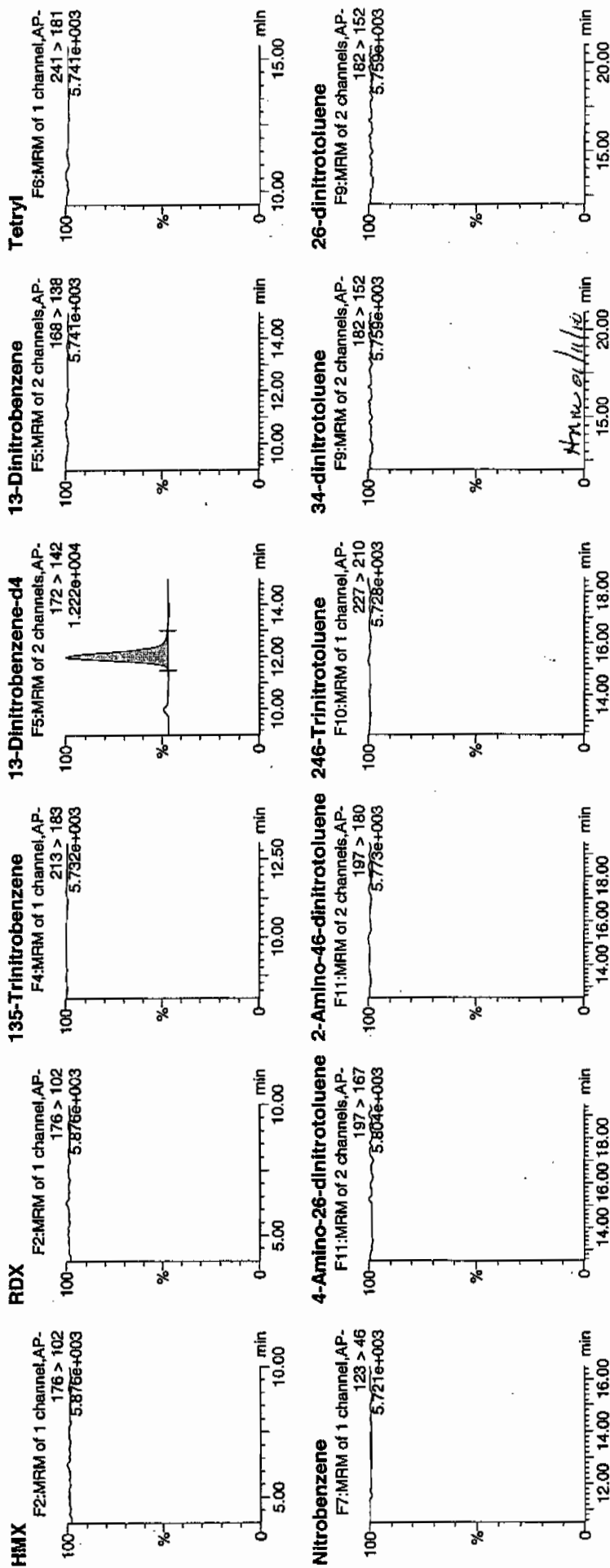
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Time: 01:43:07

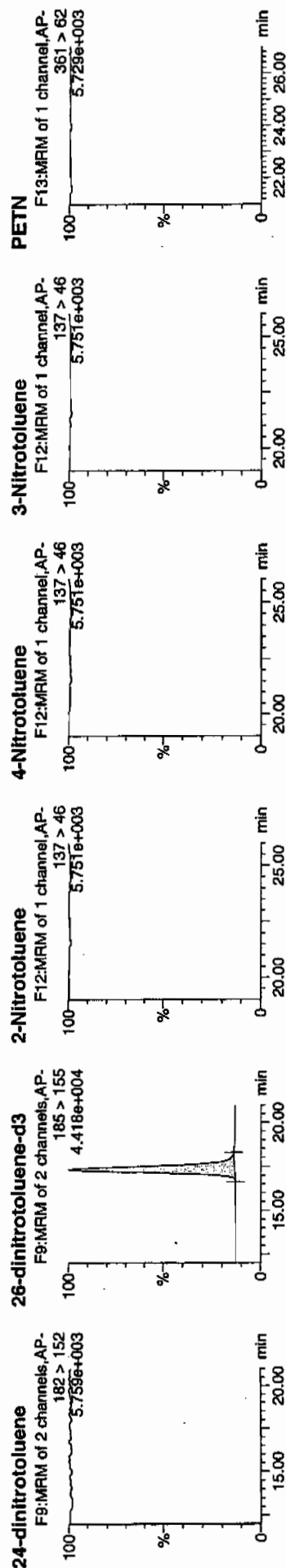
ID: XIBLK09

Vial: 1:1,A

WAT
1/11/10



Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

[illegible]

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 10-JAN-10 07:37

GEL Data File: EXP0108079a

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	477.367
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	488.988
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108079a

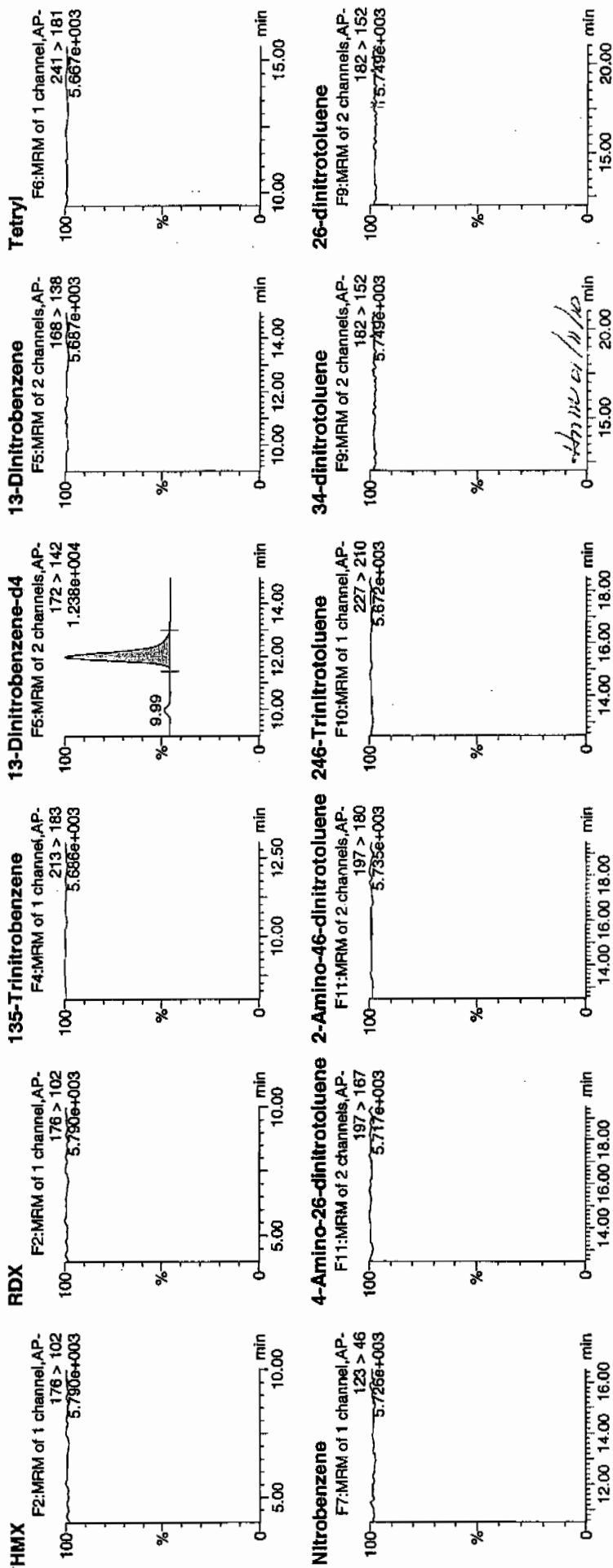
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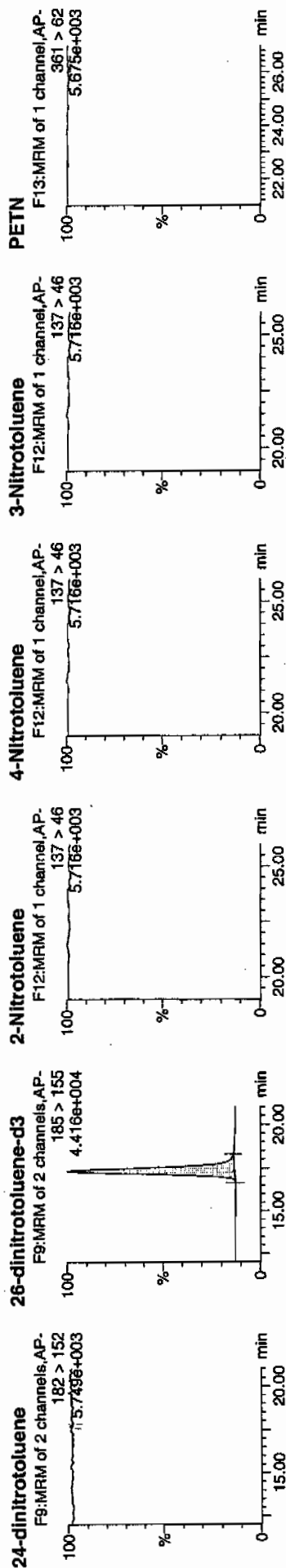
Time: 07:37:25

ID: XIBLK10

Vial: 1:1,A

1/11/10



[illegible]

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 10-JAN-10 14:00

GEL Data File: EXP0108092a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	495.181
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	480.925
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108092a

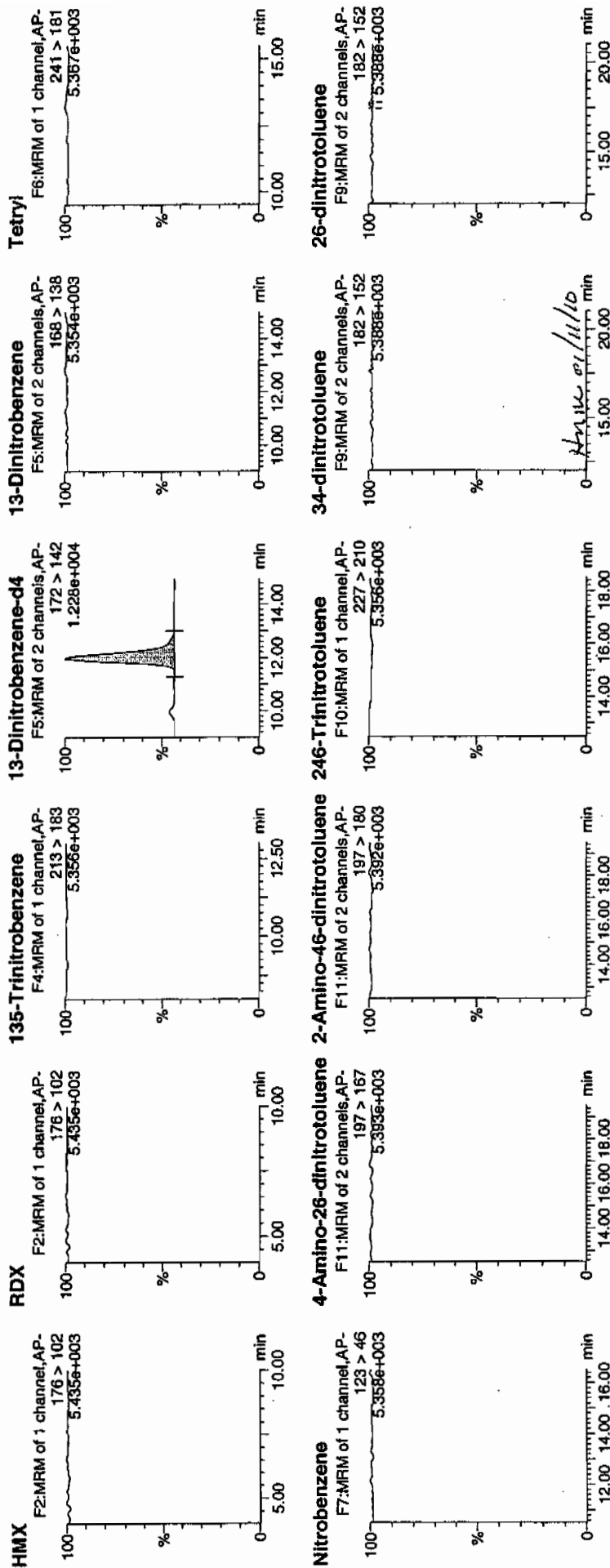
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Time: 14:00:53

ID: XIBLK11

Vial: 1:1,A

1/11/10

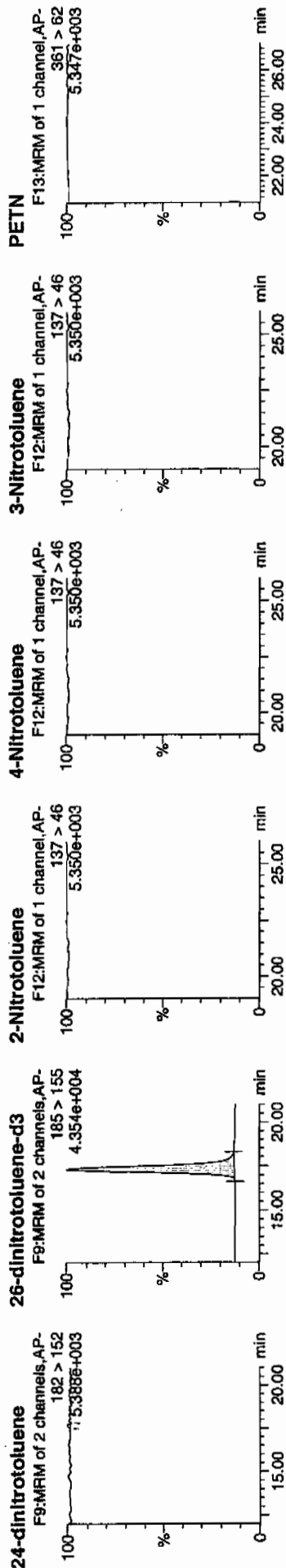


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 124 of 189

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod	Date	%Rec	%Dy	%SN
XIBLK11	HMX	176 > 102			2901.297								
XIBLK11	ROX	176 > 102			2901.297								
XIBLK11	135-Trinitrobenzene	213 > 183			2901.297								
XIBLK11	13-Dinitrobenzene-d4	172 > 142	11.97	2901.297		2901.297	2901.297	bb			495.1814	99.0	-1.0 162.2
XIBLK11	13-Dinitrobenzene	168 > 138			2901.297								
XIBLK11	Tetryl	241 > 181			2901.297								
XIBLK11	Nitrobenzene	123 > 46			2901.297								
XIBLK11	4-Amino-26-dinitrotoluene	197 > 167			16242.088								
XIBLK11	2-Amino-46-dinitrotoluene	197 > 180			16242.088								
XIBLK11	246-Trinitrotoluene	227 > 210			16242.088								
XIBLK11	34-dinitrotoluene	182 > 152			16242.088								
XIBLK11	26-dinitrotoluene	182 > 152			16242.088								
XIBLK11	24-dinitrotoluene	182 > 152			16242.088								
XIBLK11	26-dinitrotoluene-d3	185 > 155	17.31	16242.088		16242.088	16242.088		MM-	11-Jan-10 09:17:29			
XIBLK11	2-Nitrotoluene	137 > 46			16242.088				MM-	11-Jan-10 09:21:02			
XIBLK11	4-Nitrotoluene	137 > 46			16242.088								
XIBLK11	3-Nitrotoluene	137 > 46			16242.088								
XIBLK11	PETN	361 > 62			16242.088								
											480.9247	96.2	-3.8 1572.6

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 10-JAN-10 15:58

GEL Data File: EXP0108096a

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	506.439
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	508.733
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108096a

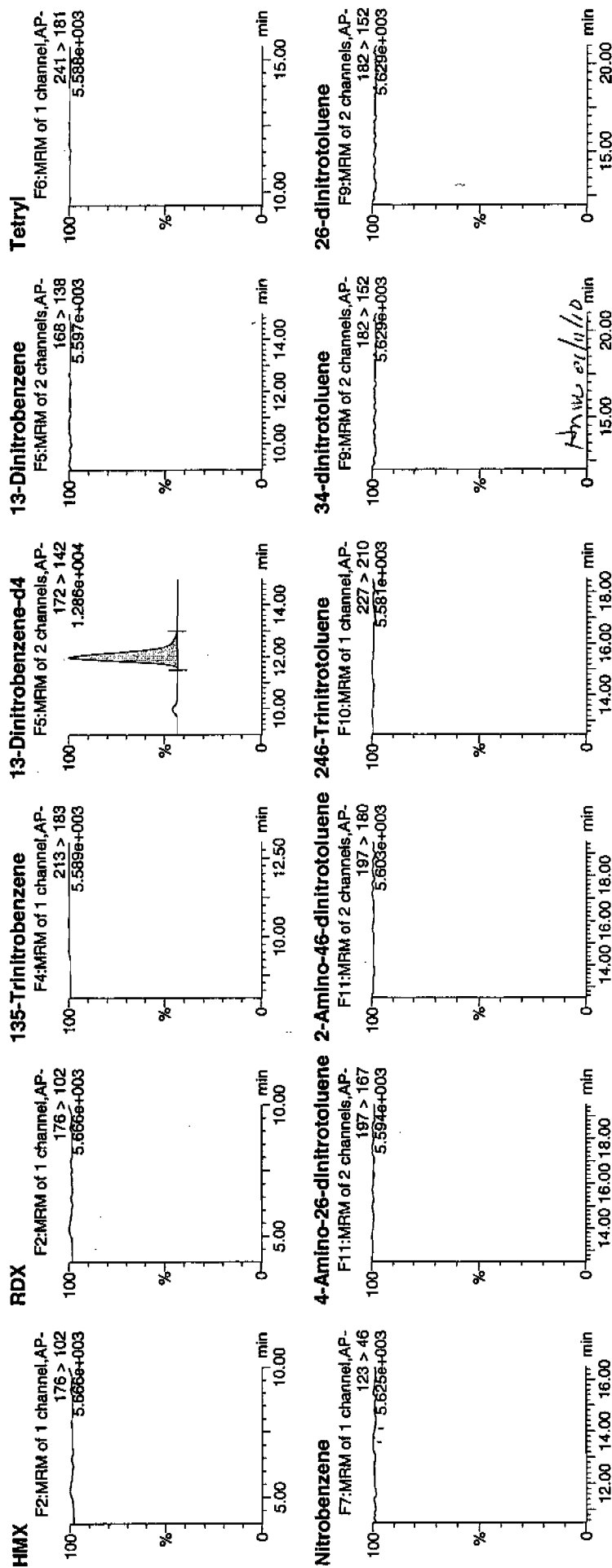
Date: 10-Jan-2010

Time: 15:58:48

ID: XIBLK11

Vial: 1:1,A

1/11/10

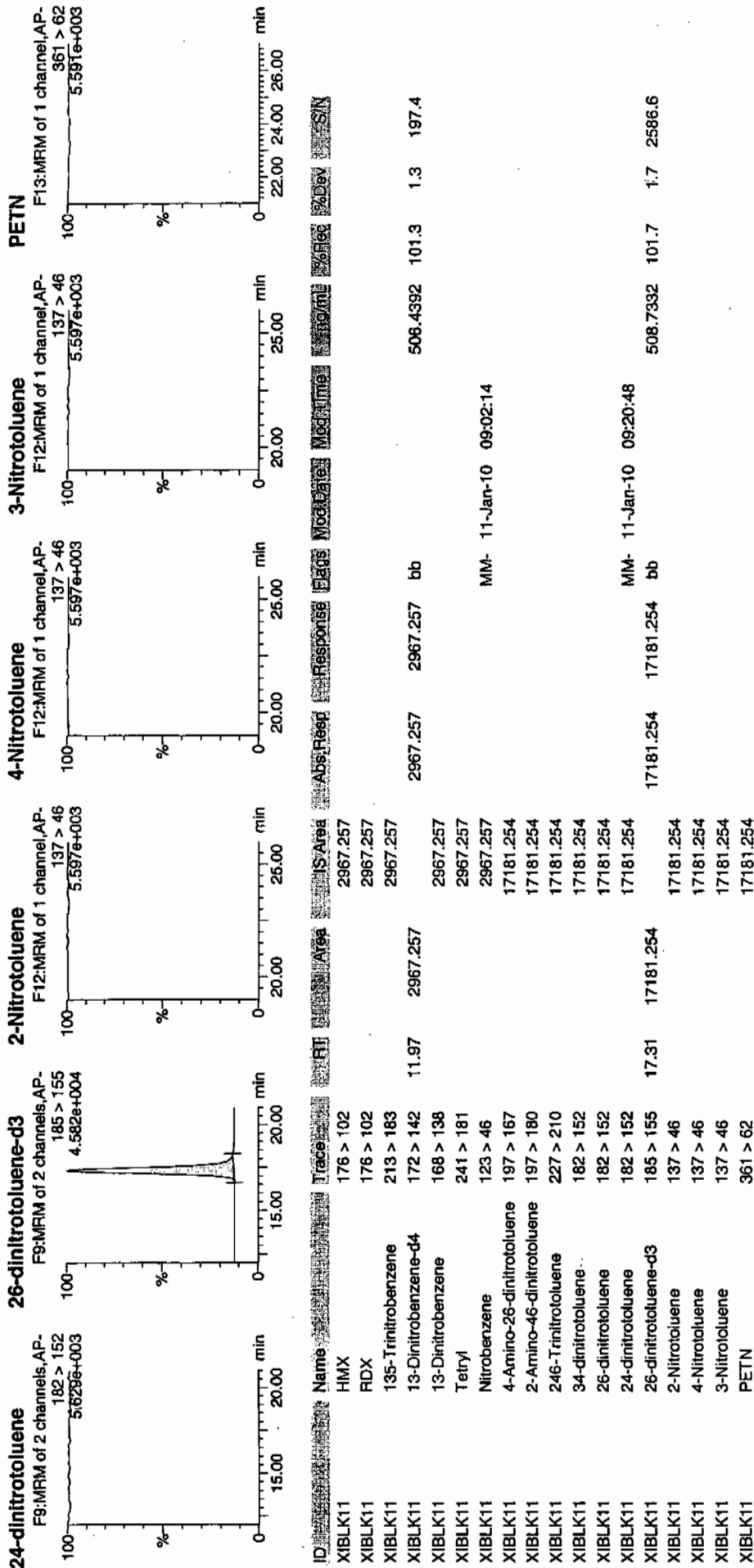


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 132 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 10-JAN-10 20:24

GEL Data File: EXP0108105a

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	491.015
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	500.079
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 149 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108105a

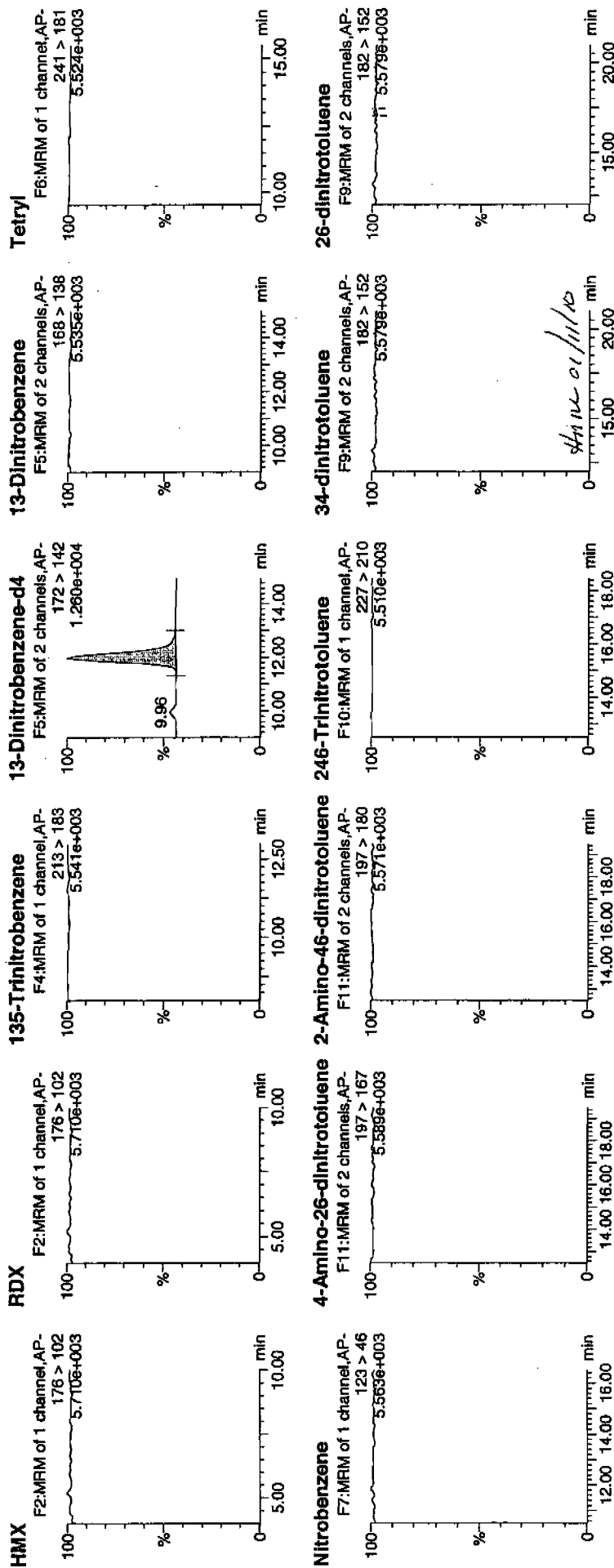
Date: 10-Jan-2010

Time: 20:24:23

ID: XIBLK12

Vial: 1:1,A

11/10
11/10

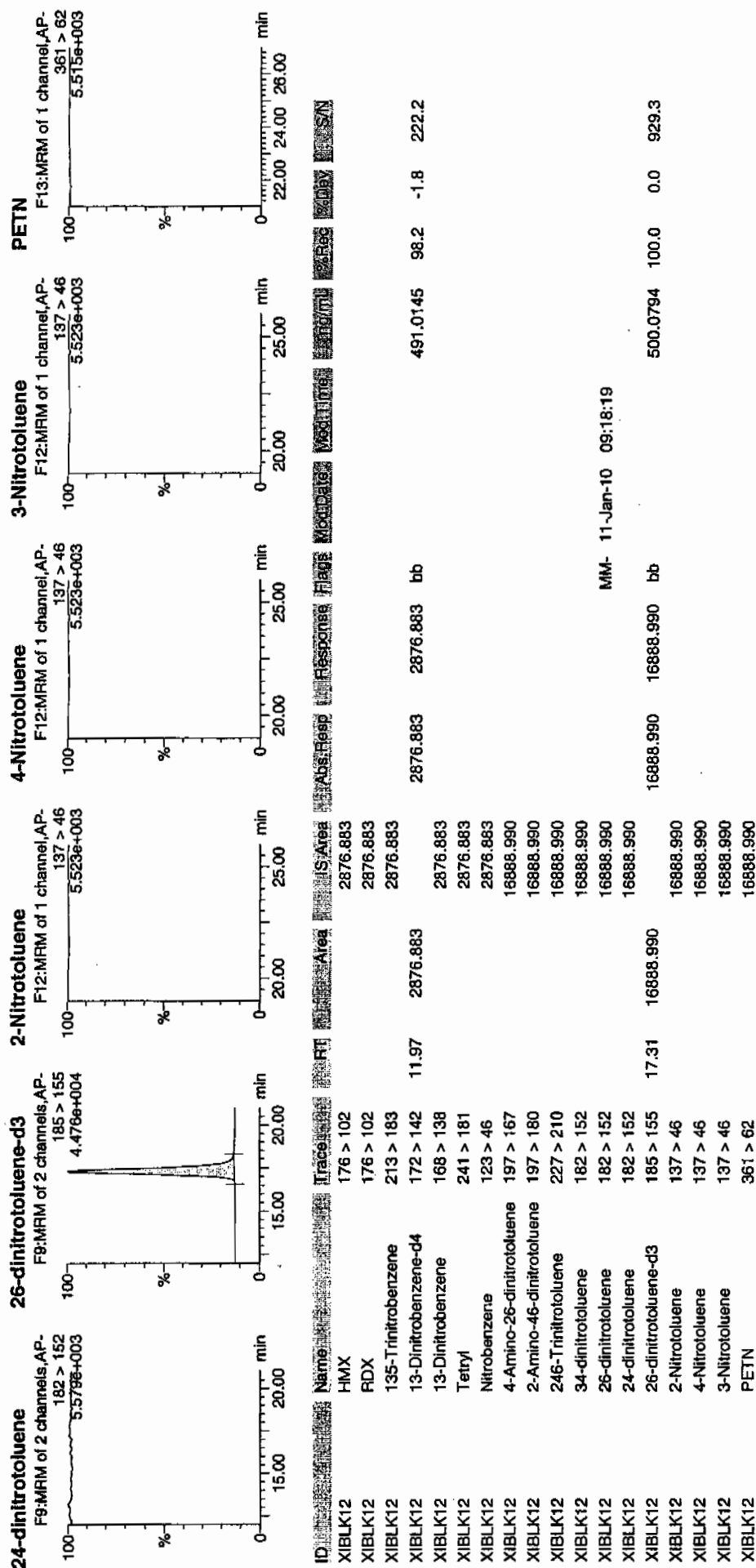


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 150 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 11-JAN-10 02:18

GEL Data File: EXP0108117a

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	514.672
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	519.983
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\1010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108117a

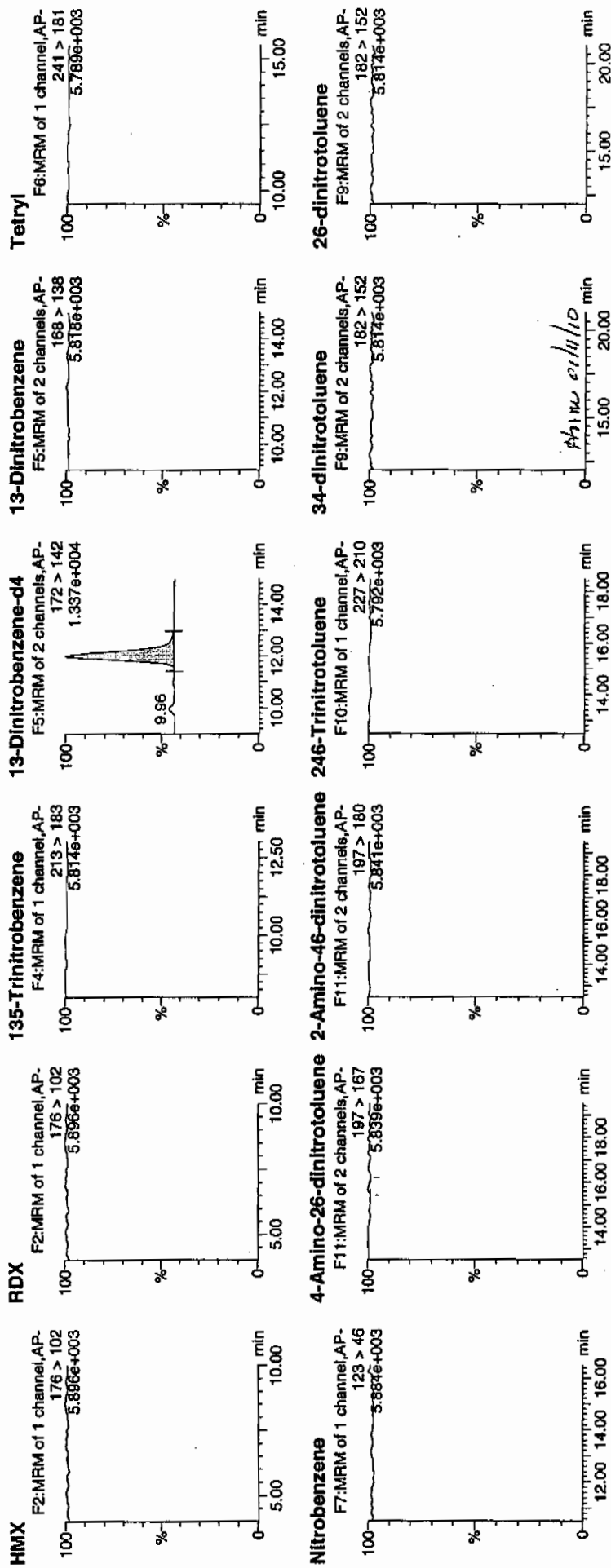
Date: 11-Jan-2010

Time: 02:18:22

ID: XIBLK13

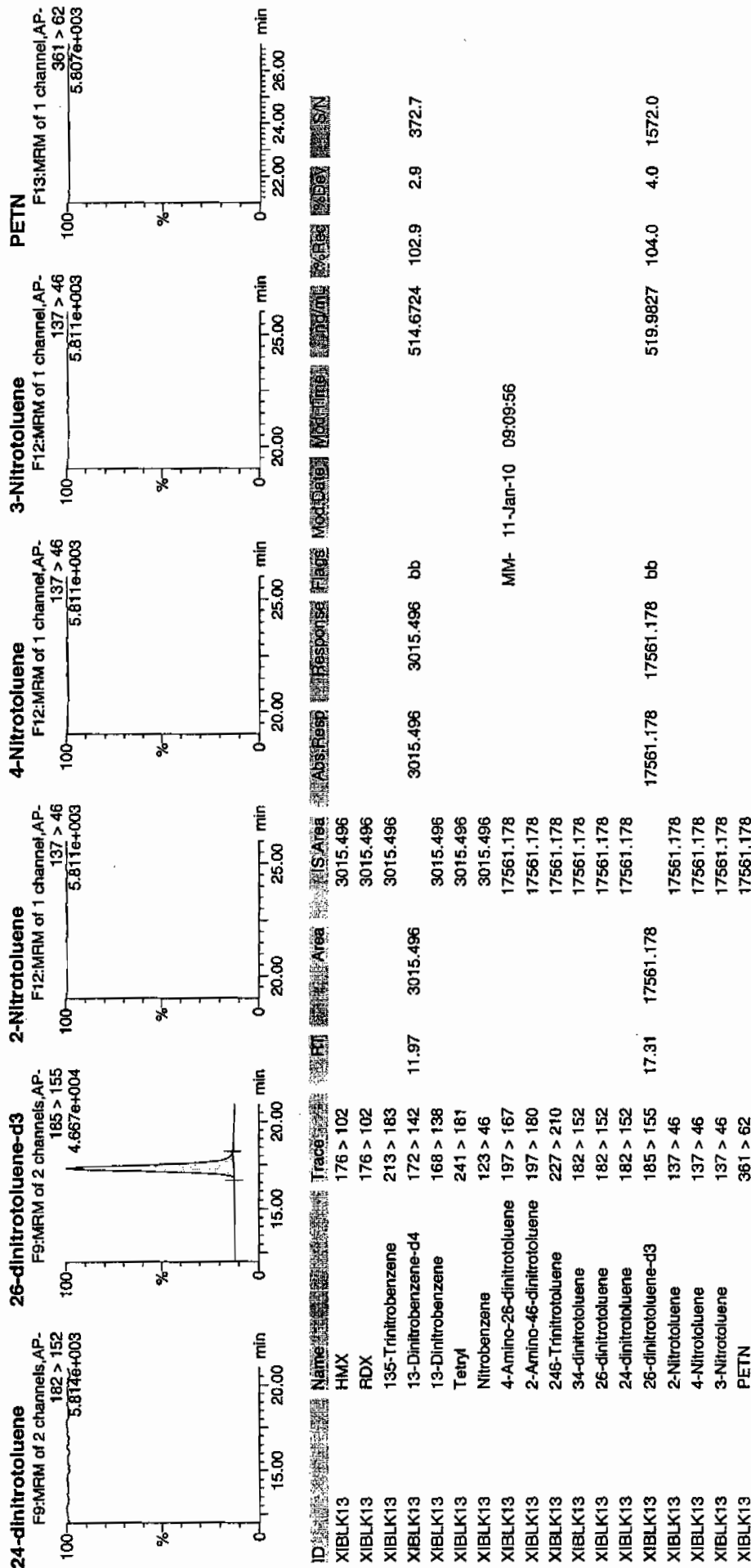
Vial: 1:1,A

1/11/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 11-JAN-10 05:15

GEL Data File: EXP0108123a

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	603.359
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	513.701
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

Quantity Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0108123a

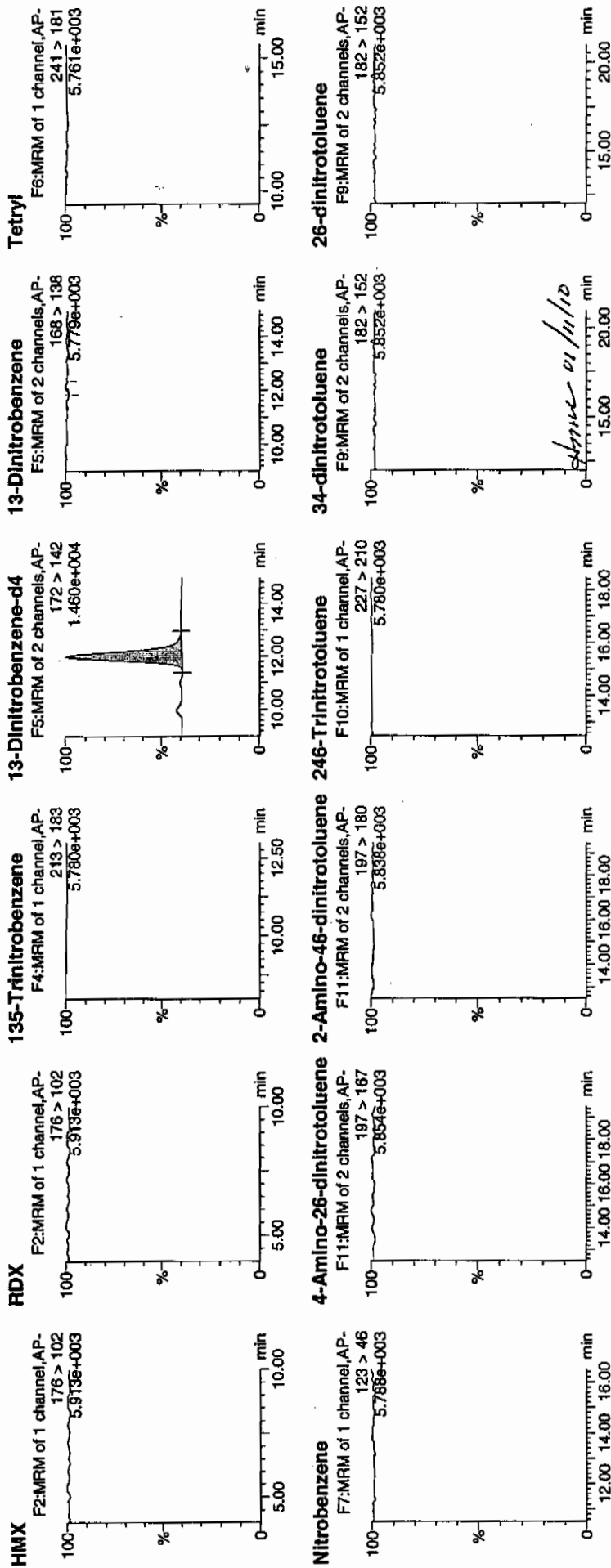
Date: 11-Jan-2010

Time: 05:15:40

ID: XIBLK14

Vial: 1:1,A

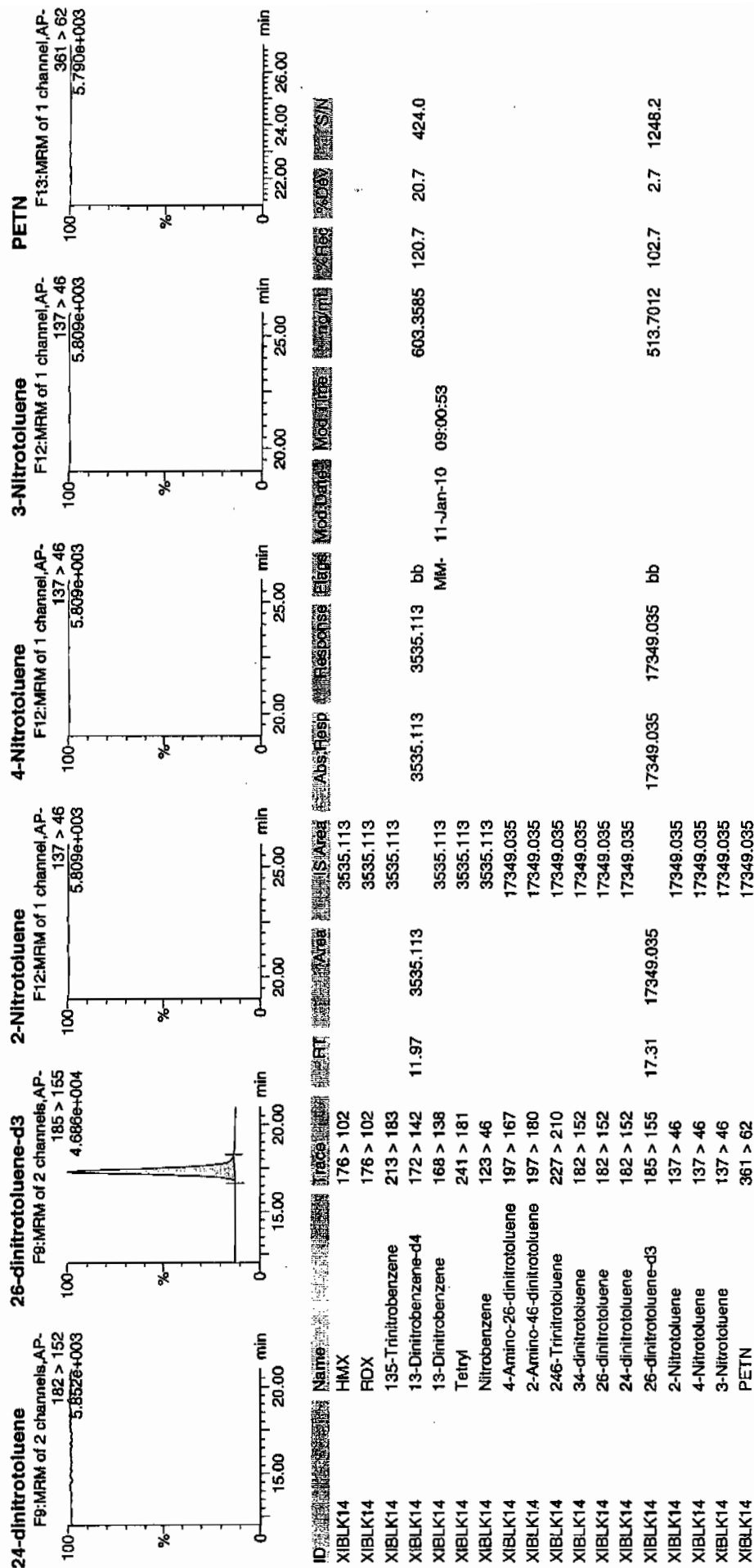
11/10
11/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 11-JAN-10 11:09

GEL Data File: EXP0108135a

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	509.717
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	481.725
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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

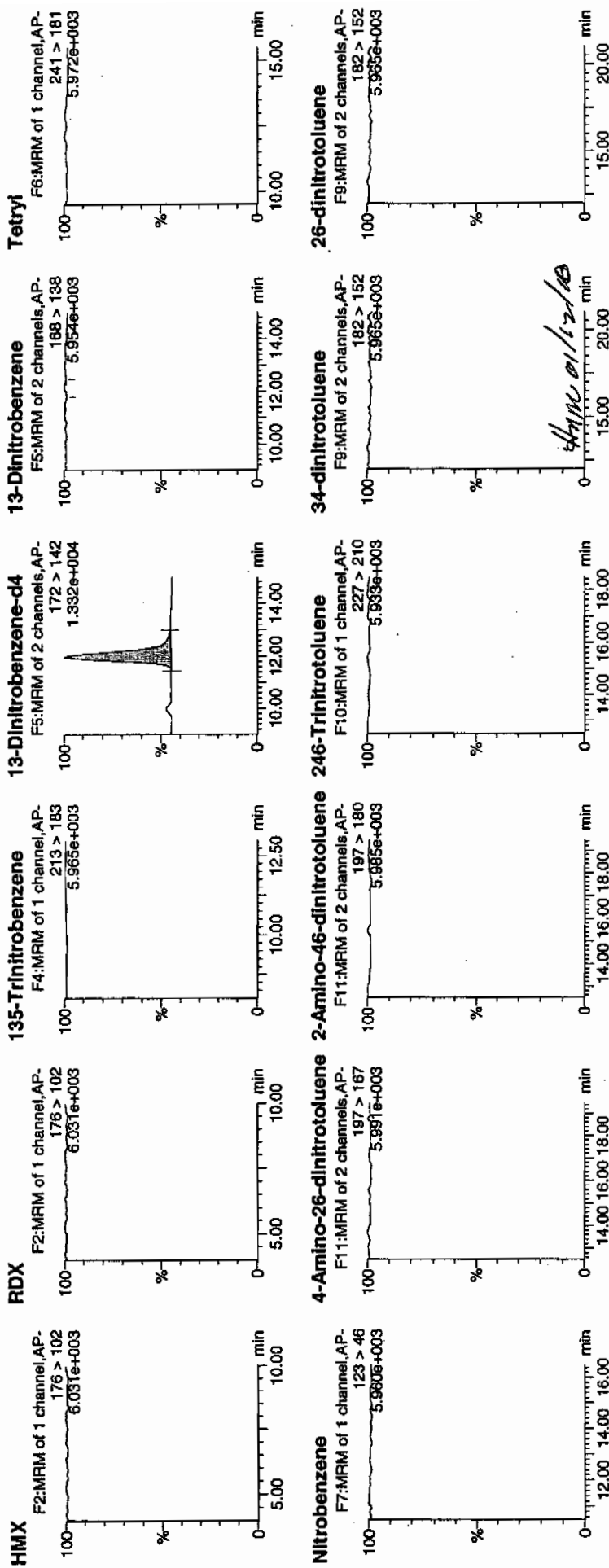
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108135a

Date: 11-Jan-2010

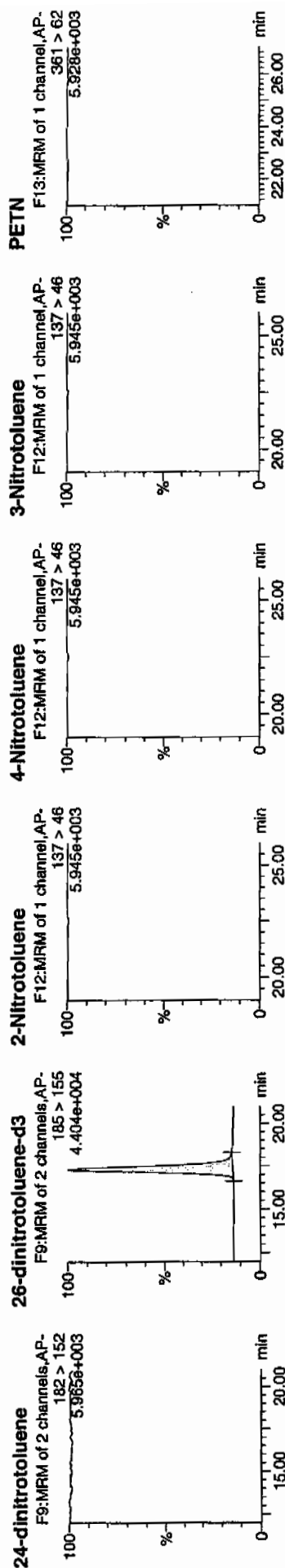
Time: 11:09:55

ID: XIBLK15

Vial: 1:1,A

WRT
1/10/10

Dataset: C:\MASSLYN\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



ID	Name	Trace	FID	Area	%IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/ml	% Rec	% Dev
XIBLK15	HMX	176 > 102			2986.460								
XIBLK15	RDX	176 > 102			2986.460								
XIBLK15	135-Trinitrobenzene	213 > 183			2986.460								
XIBLK15	13-Dinitrobenzene-d4	172 > 142	11.97	2986.460		2986.460	2986.460	bb			509.7167	101.9	1.9
XIBLK15	13-Dinitrobenzene	168 > 138							MM-	12-Jan-10	10:02:53		302.4
XIBLK15	Tetryl	241 > 181			2986.460								
XIBLK15	Nitrobenzene	123 > 46			2986.460								
XIBLK15	4-Amino-26-dinitrotoluene	197 > 167			16269.122								
XIBLK15	2-Amino-46-dinitrotoluene	197 > 180			16269.122								
XIBLK15	246-Trinitrotoluene	227 > 210			16269.122								
XIBLK15	34-dinitrotoluene	182 > 152			16269.122								
XIBLK15	26-dinitrotoluene	182 > 152			16269.122								
XIBLK15	24-dinitrotoluene	182 > 152			16269.122								
XIBLK15	26-dinitrotoluene-d3	185 > 155	17.31	16269.122		16269.122	16269.122	bb			481.7252	96.3	-3.7
XIBLK15	2-Nitrotoluene	137 > 46			16269.122								1301.1
XIBLK15	4-Nitrotoluene	137 > 46			16269.122								
XIBLK15	3-Nitrotoluene	137 > 46			16269.122								
XIBLK15	PETN	361 > 62			16269.122								

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 11-JAN-10 17:33

GEL Data File: EXP0108148a

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	534.634
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	520.835
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108148a

Date: 11-Jan-2010

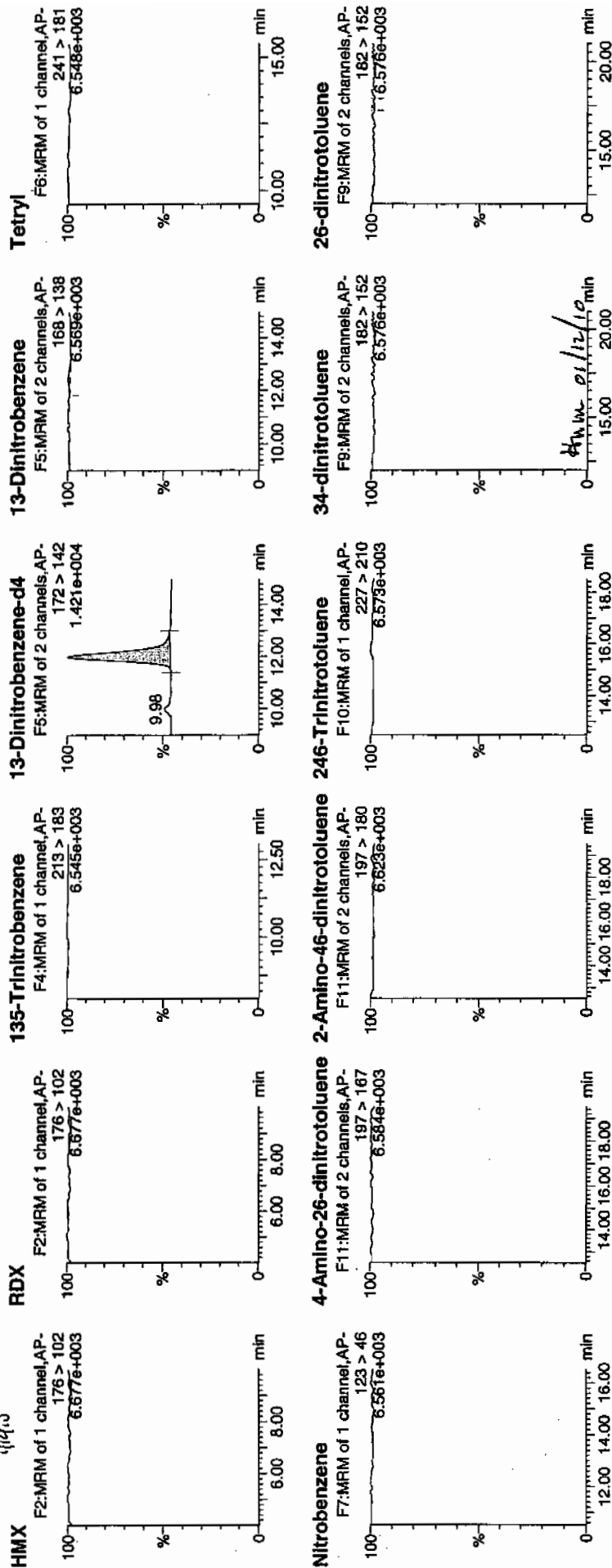
Time: 17:33:12

ID: XIBLKJ116

Vial: 1:1,A

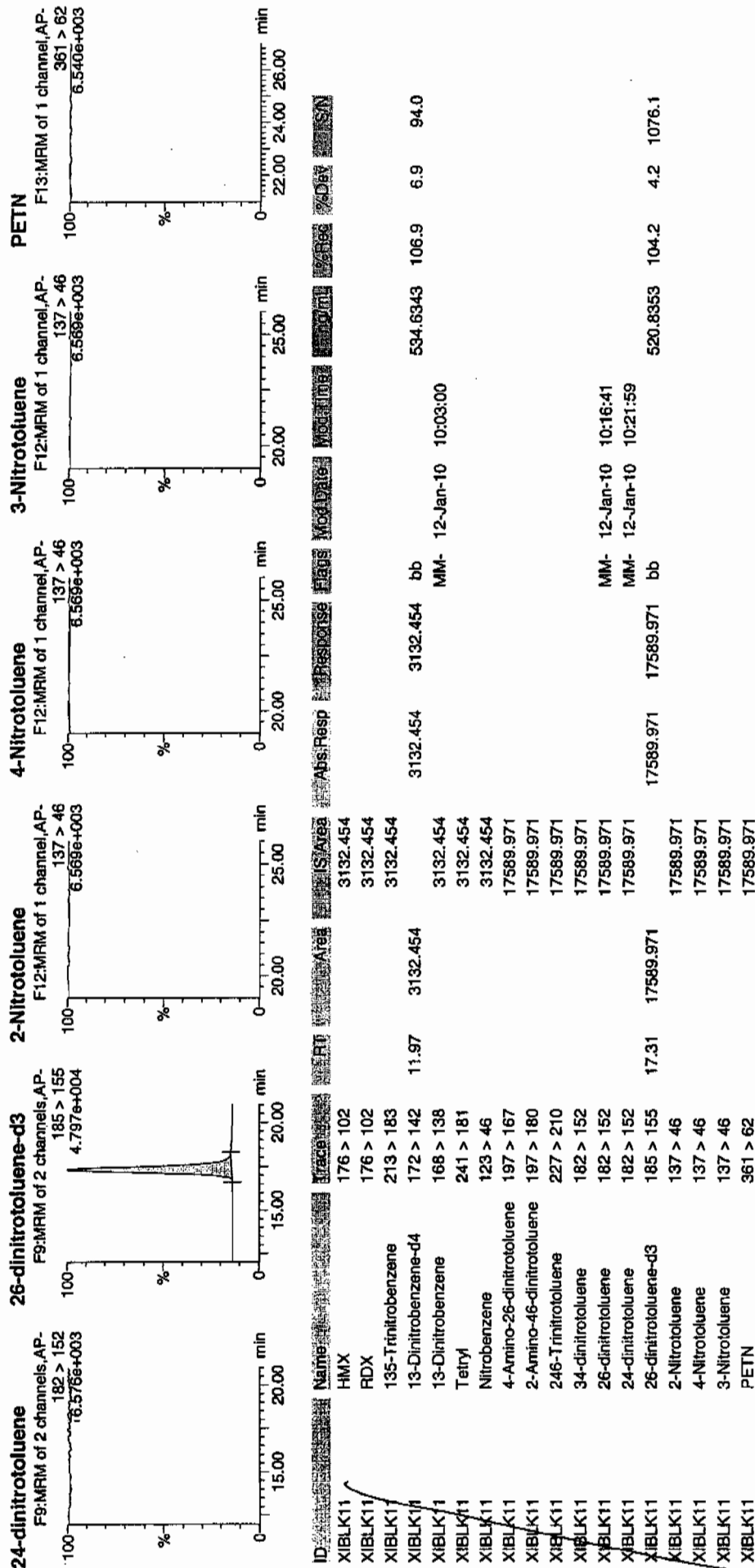
1/12/10

1/12/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 05-JAN-10 16:51

GEL Data File: EXS01050010.wiff

Instrument ID: LCMSMS

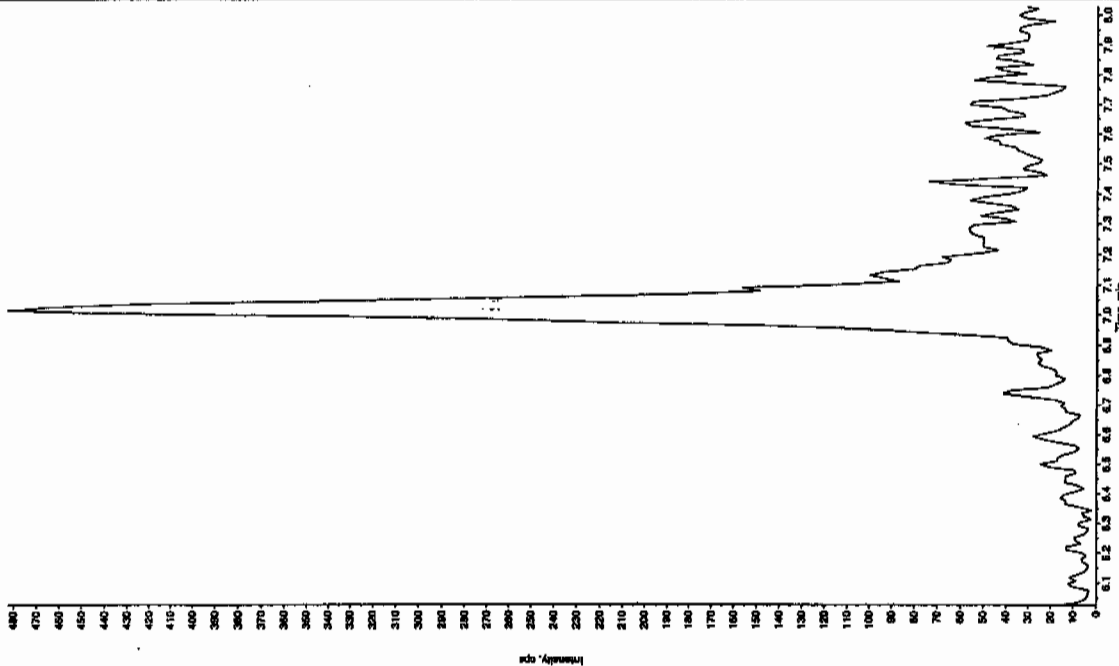
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/12/10
mrg

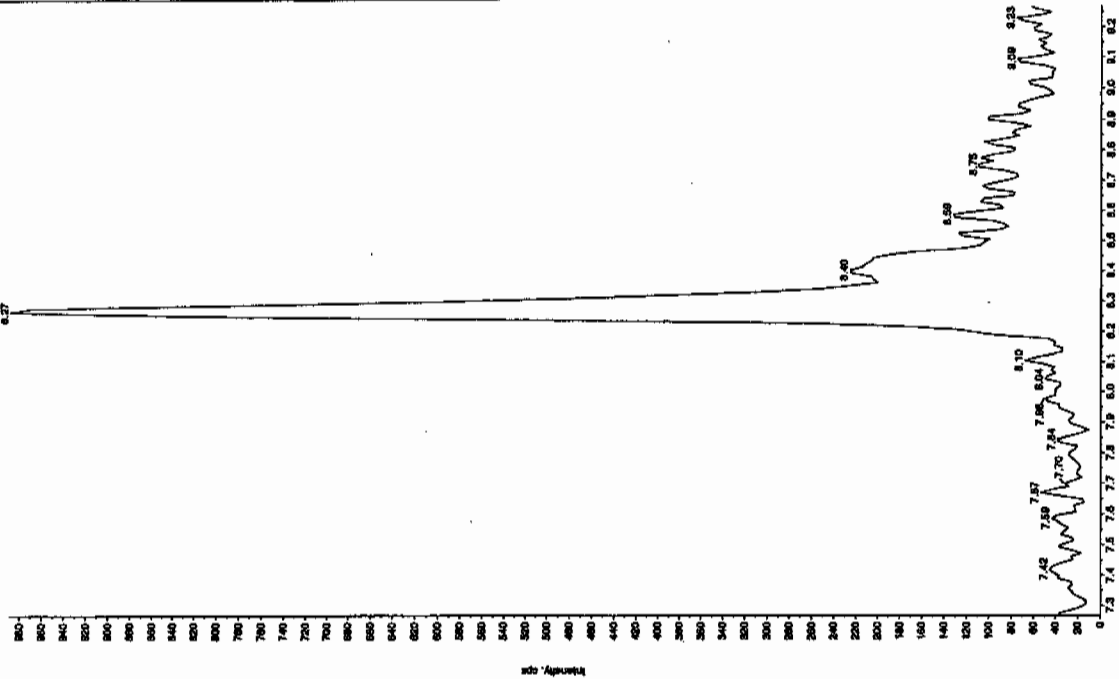
Sample Name: "XBL102" Sample ID: "111EF" File: "EXSD1050010.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSXP_B" Annotation: "1"

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/5/2010
Acq. Date: 4:51:46 PM
Acq. Time: 4:51:46 PM
Modified: No



Sample Name: "XBL102" Sample ID: "111EF" File: "EXSD1050010.wif"
Peak Name: "35-Phenanthrene" Mass(es): "182.046.0 amu"
Comment: "LCMSXP_B" Annotation: "1"

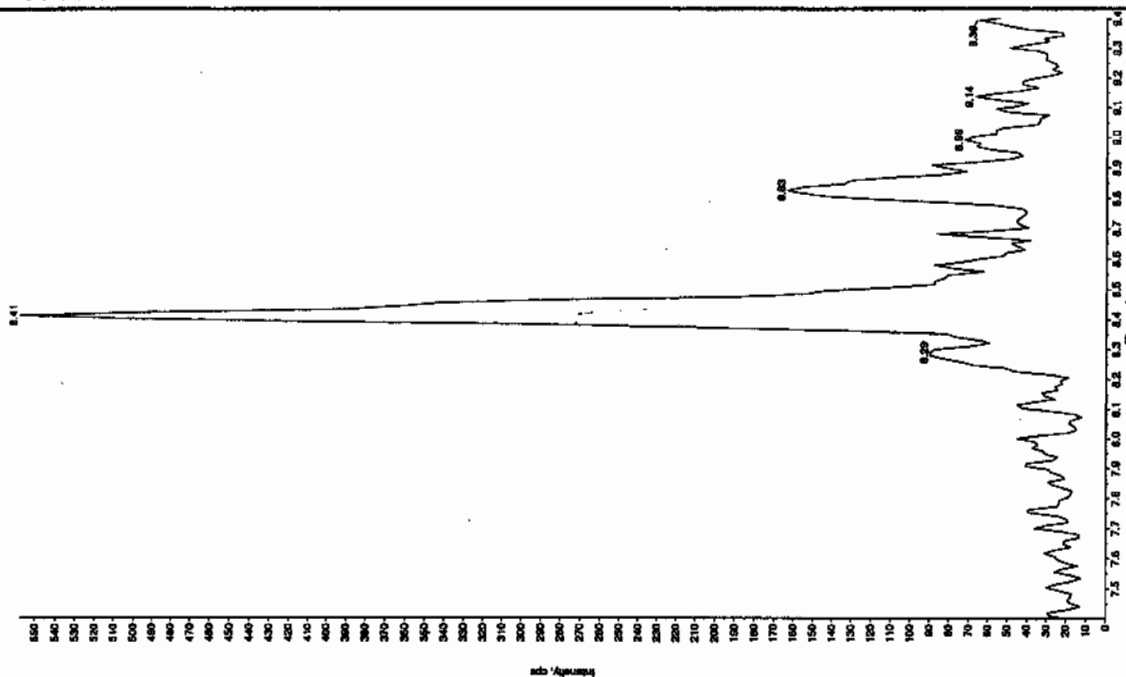
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/5/2010
Acq. Date: 4:51:46 PM
Acq. Time: 4:51:46 PM
Modified: No



HPM 01/02/10

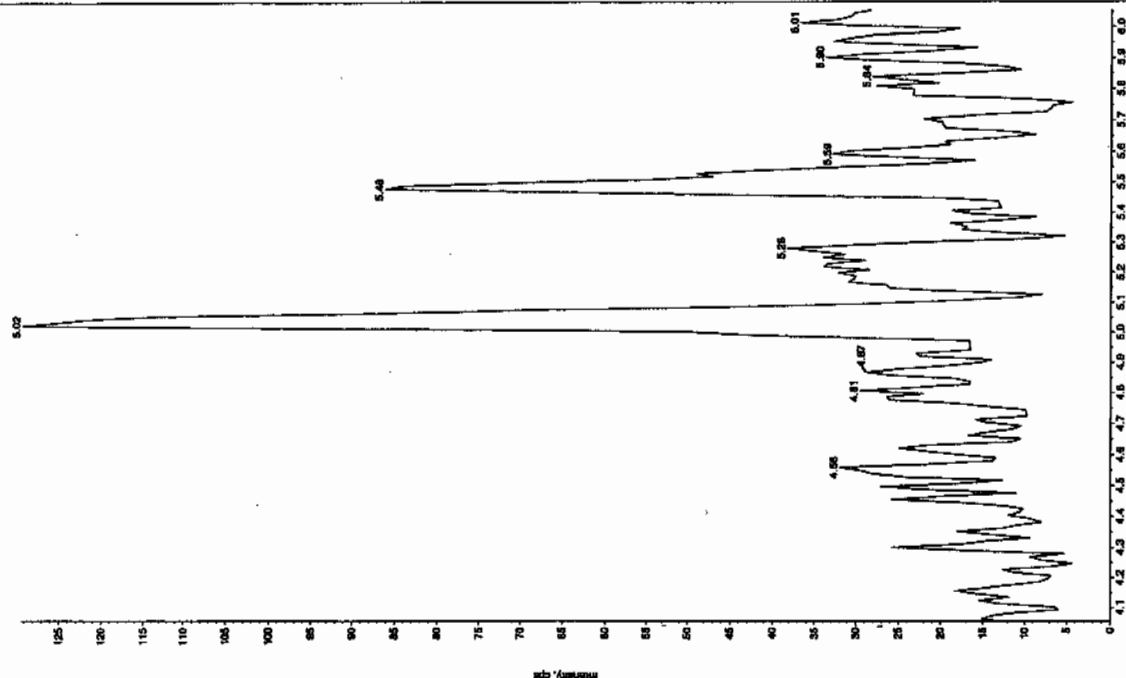
Sample Name: "XIBLK02" Sample ID: "11111" File: "EX301050010.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

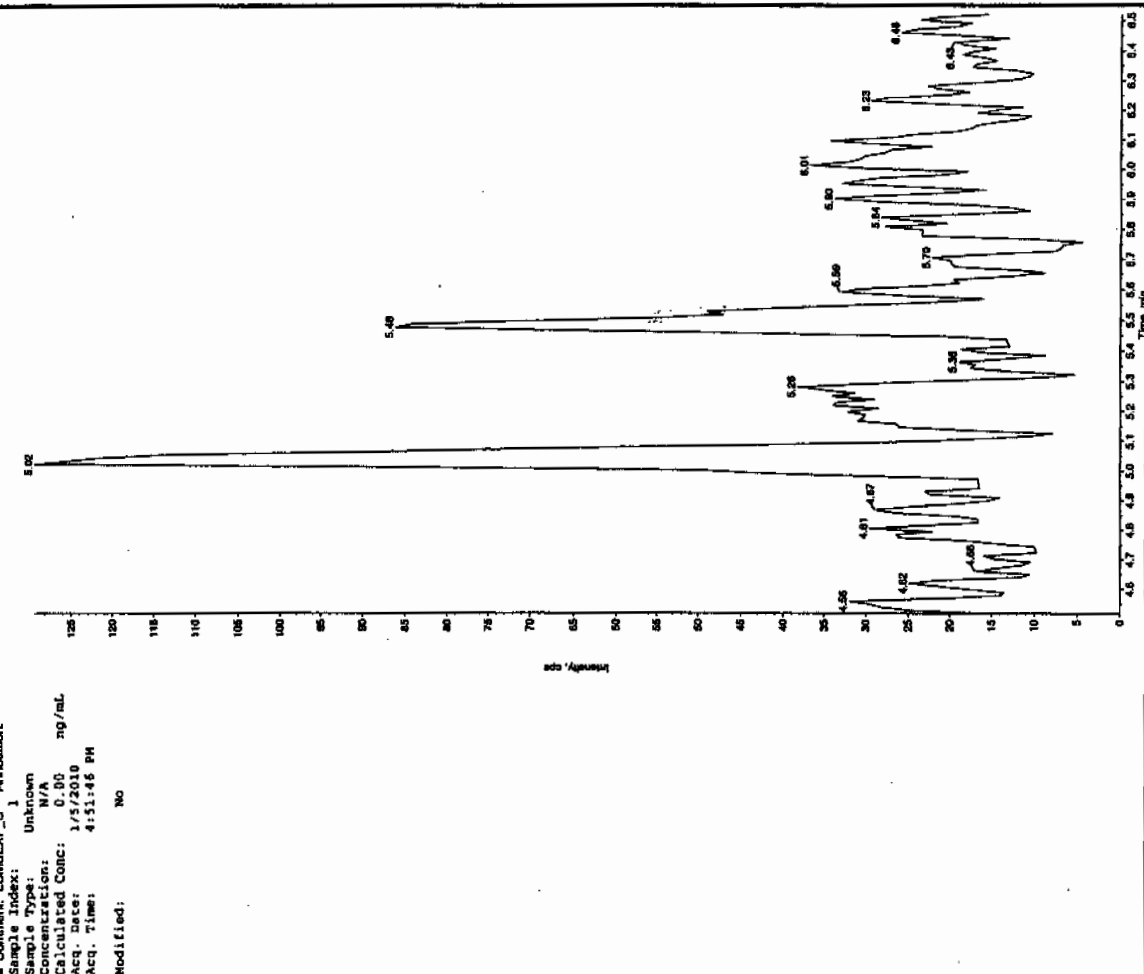
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 1/5/2010
 Acq. Time: 4:51:46 PM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "11111" File: "EX301050010.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

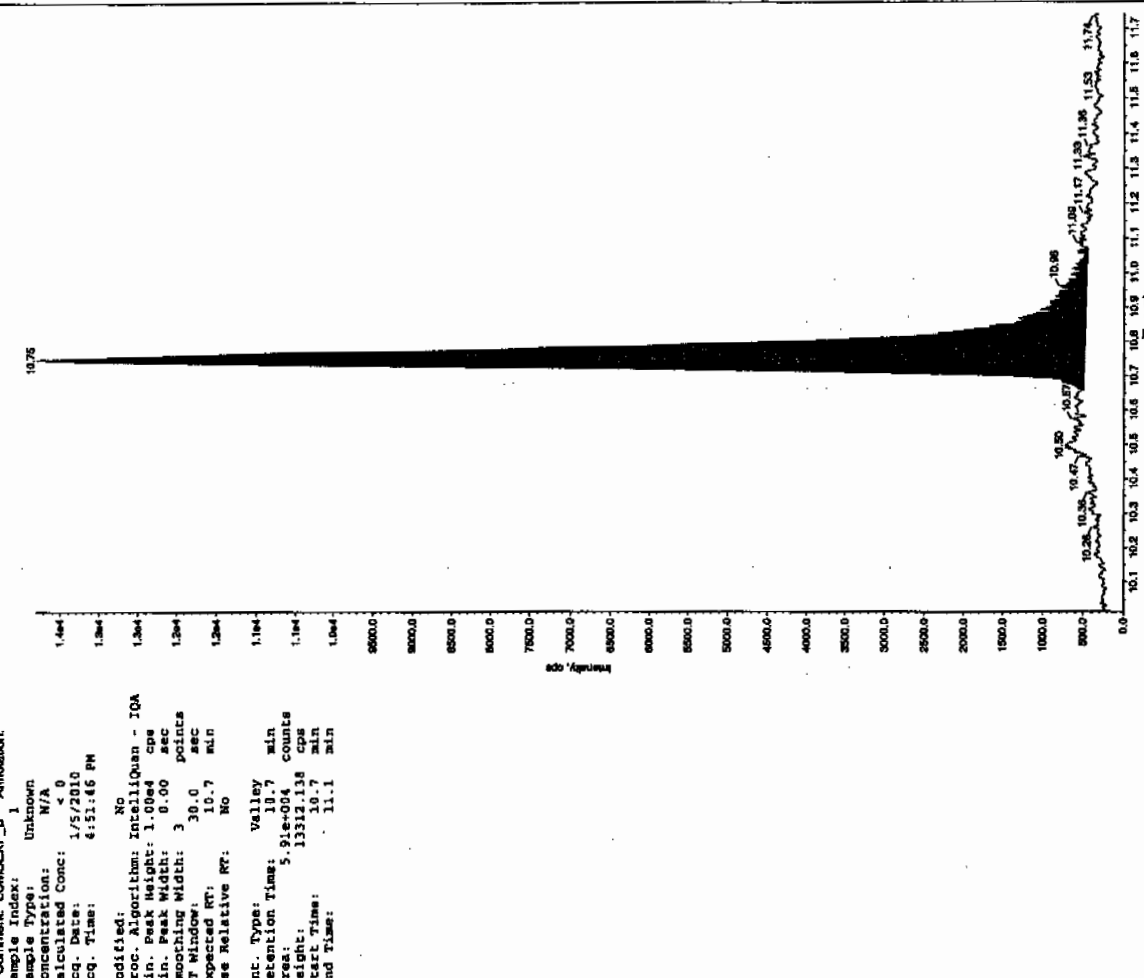
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 1/5/2010
 Acq. Time: 4:51:46 PM
 Modified: No





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK02" Sample ID: "JILER" File: "EXS01050010.wiff"
Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369, 1791.0 amu"
Comment: "1 CLASCPA R" Annotation: "



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 05-JAN-10 17:23

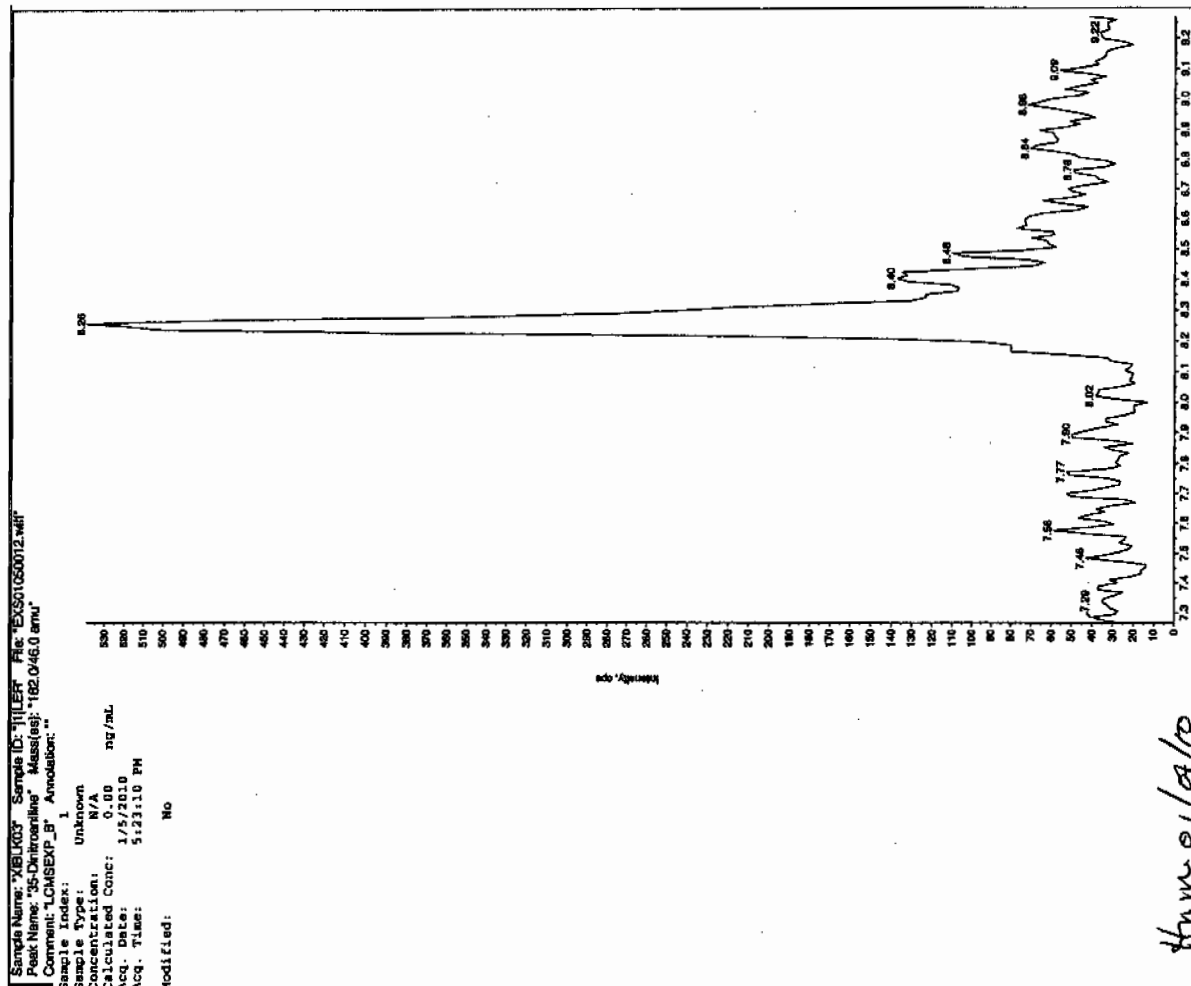
GEL Data File: EXS01050012.wiff

Instrument ID: LCMSMS

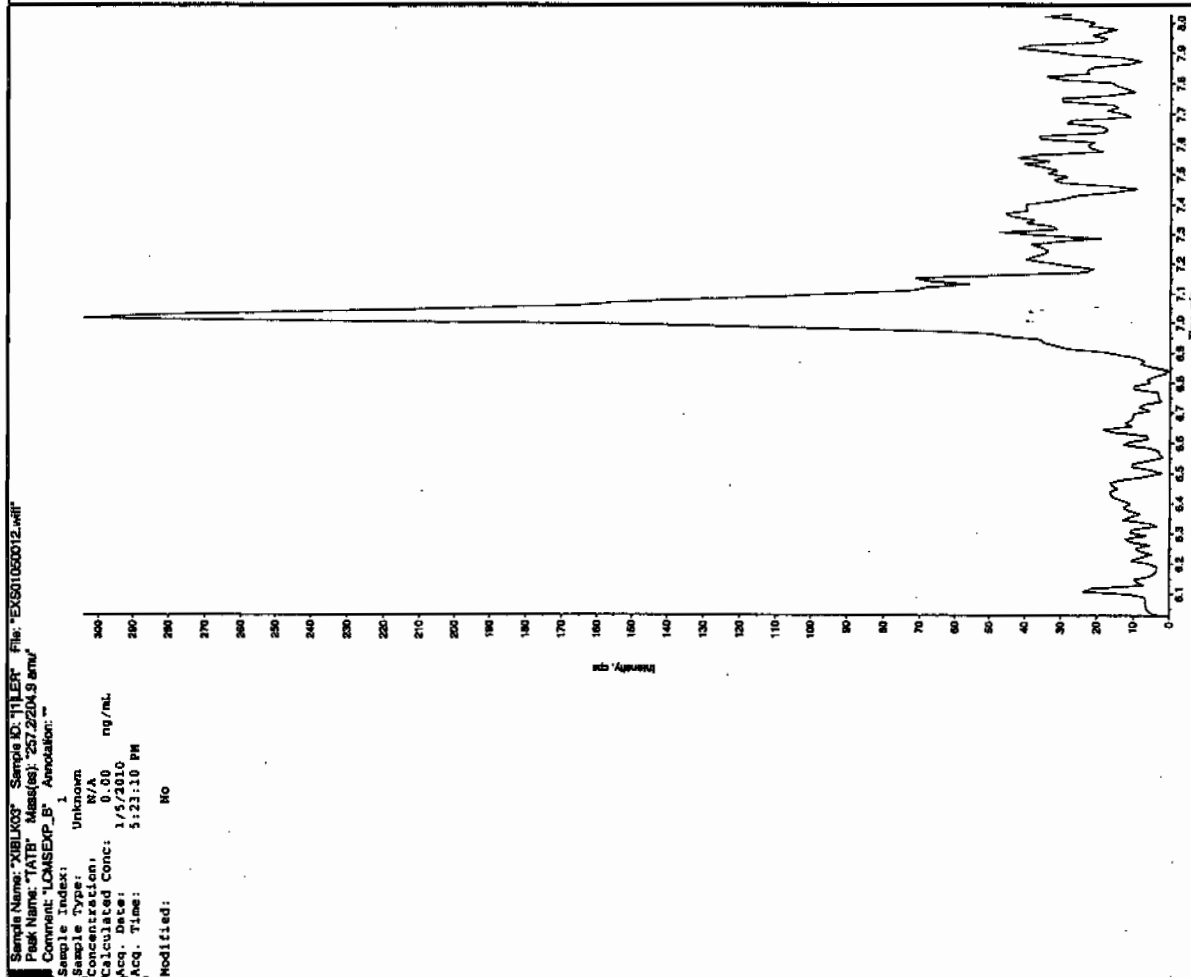
Column: Phenomenex Ultracarb 5u ODS(20)

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

02/11/10

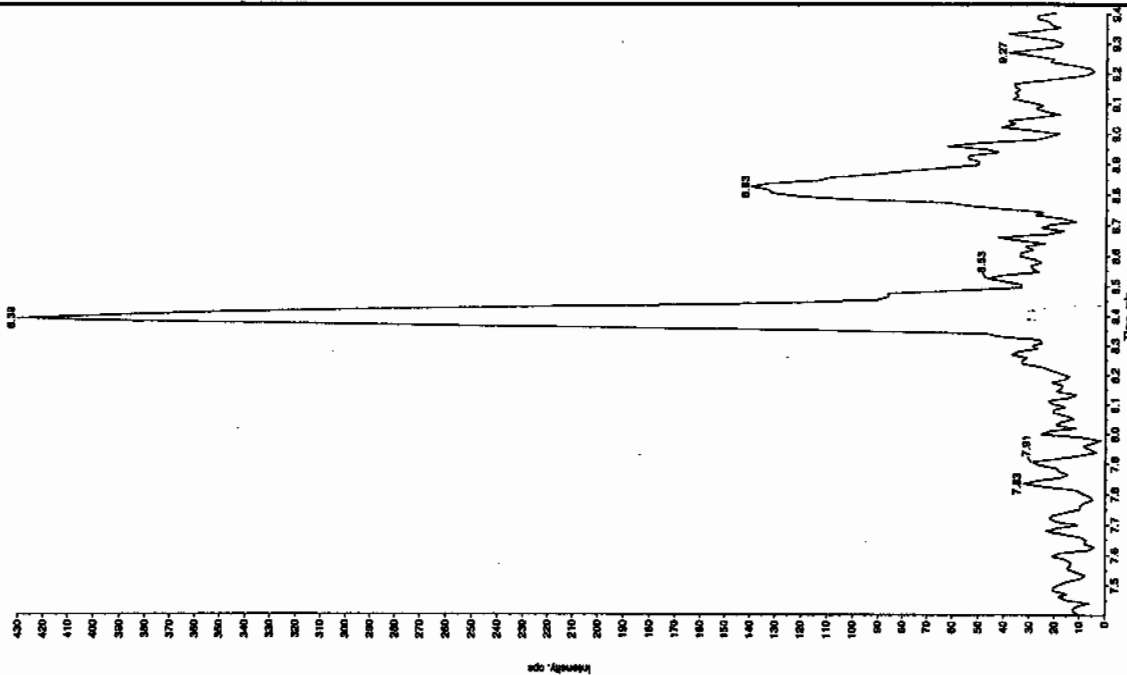


thm o/a/o



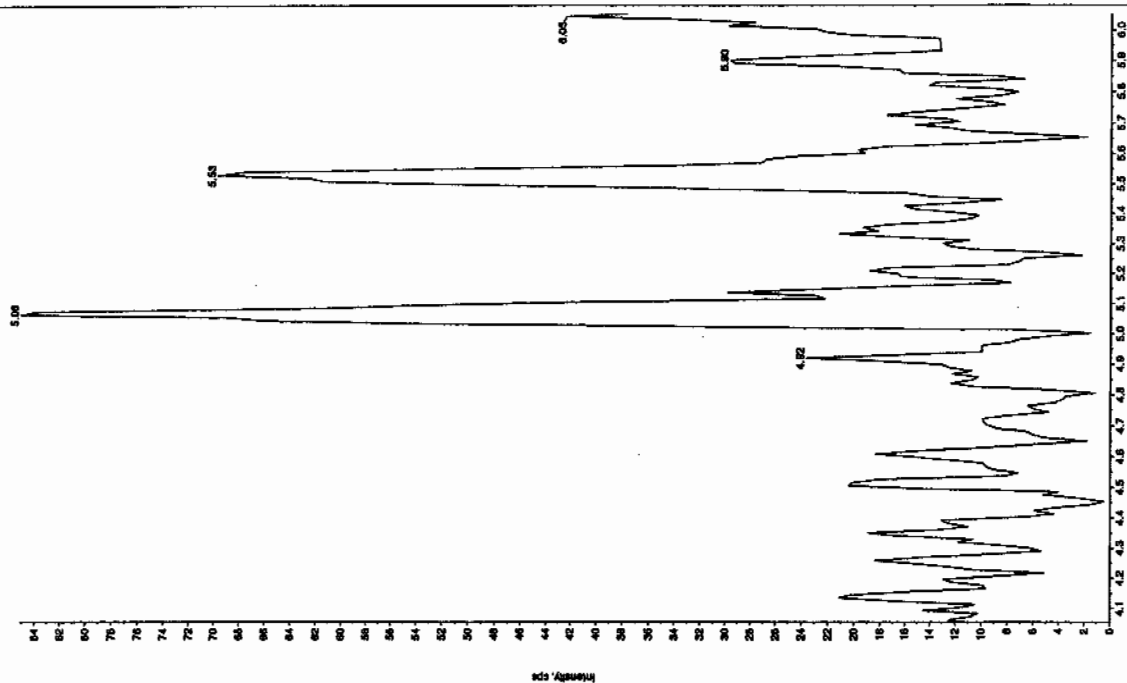
Sample Name: YBLK03 Sample ID: J1LEF File: EX501050012.wif
 Peak Name: 25-Diamid-4-nitrobenzo Mass(es): 182.1151.9 amu
 Comment: LCMSEXP_B Annotation: 1

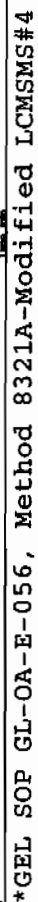
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 5:23:10 PM
 Acq. Time: 5:23:10 PM
 Modified: No



Sample Name: YBLK03 Sample ID: J1LEF File: EX501050012.wif
 Peak Name: 25-Diamid-4-nitrobenzo Mass(es): 186.046.0 amu
 Comment: LCMSEXP_B Annotation: 1

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 5:23:10 PM
 Acq. Time: 5:23:10 PM
 Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 05-JAN-10 20:47

GEL Data File: EXS01050025.wiff

Instrument ID: LCMSMS

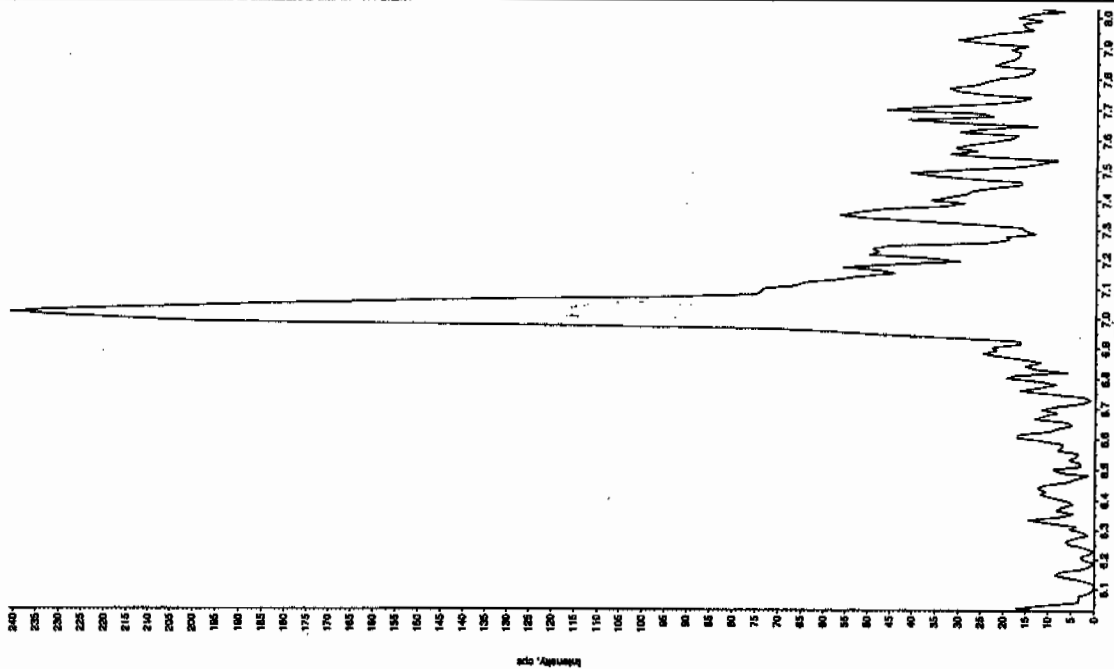
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0

11/21/10
2008

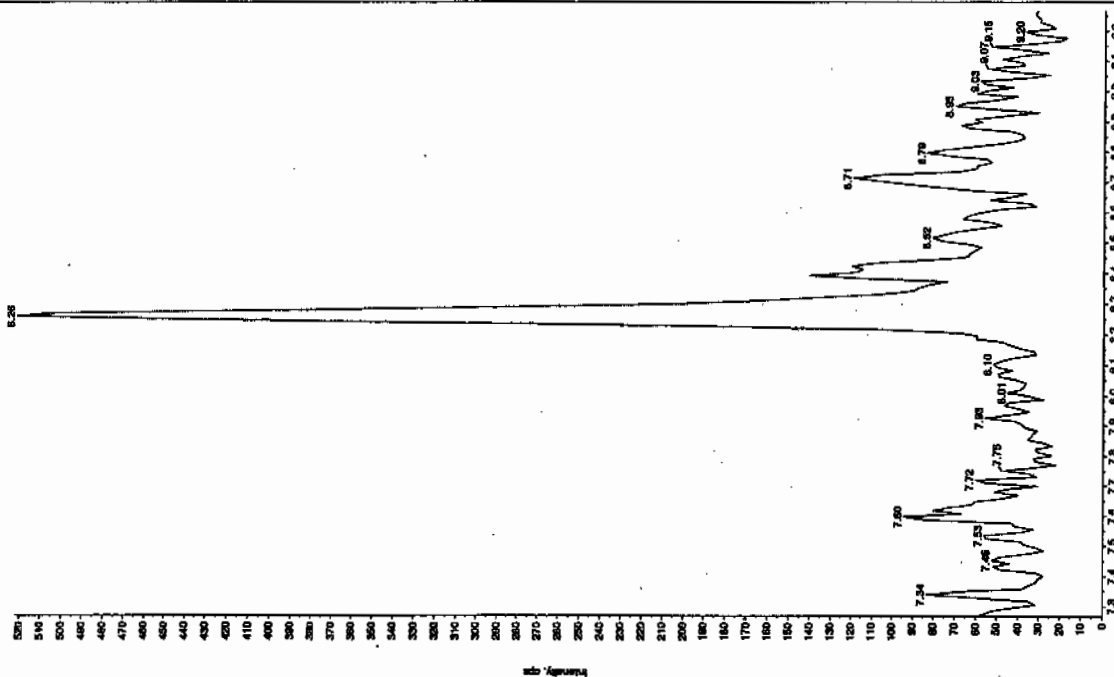
Sample Name: "XBL104" Sample ID: "11111" File: "EX501050025.will"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Concentration: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 8:47:17 PM
Modified: No



Sample Name: "XBL104" Sample ID: "11111" File: "EX501050025.will"
Peak Name: "TATB" Mass(es): "192.046.0 amu"
Concentration: "LCMSEXP_B" Annotation: ""

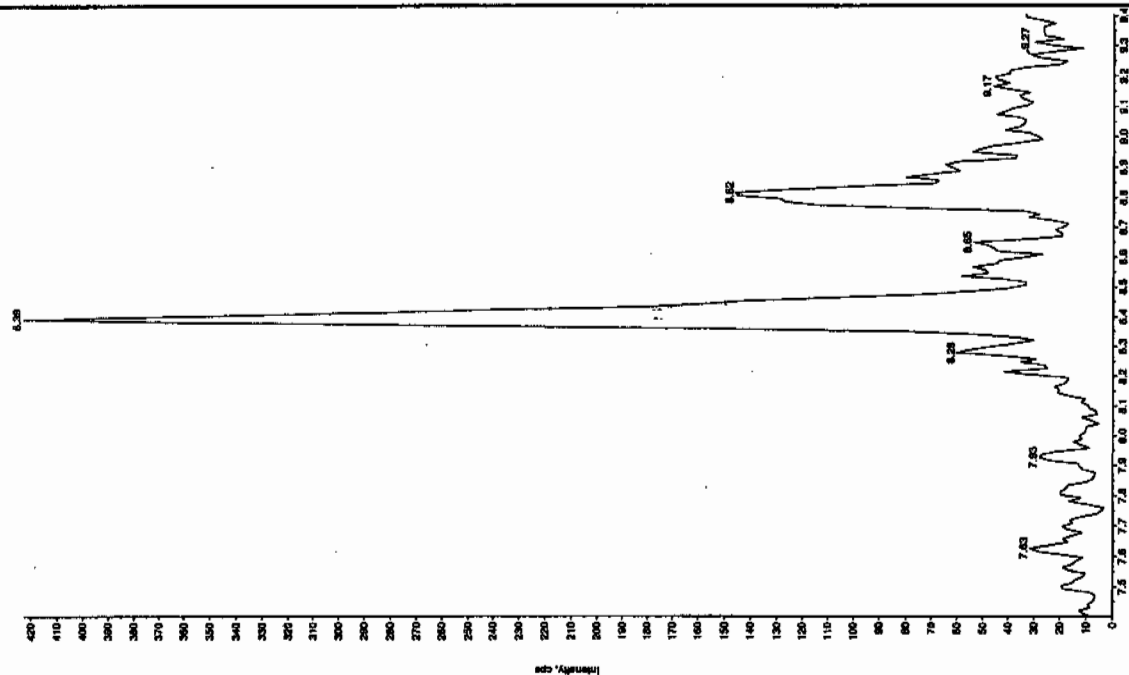
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 8:47:17 PM
Modified: No



11/21/10
2008

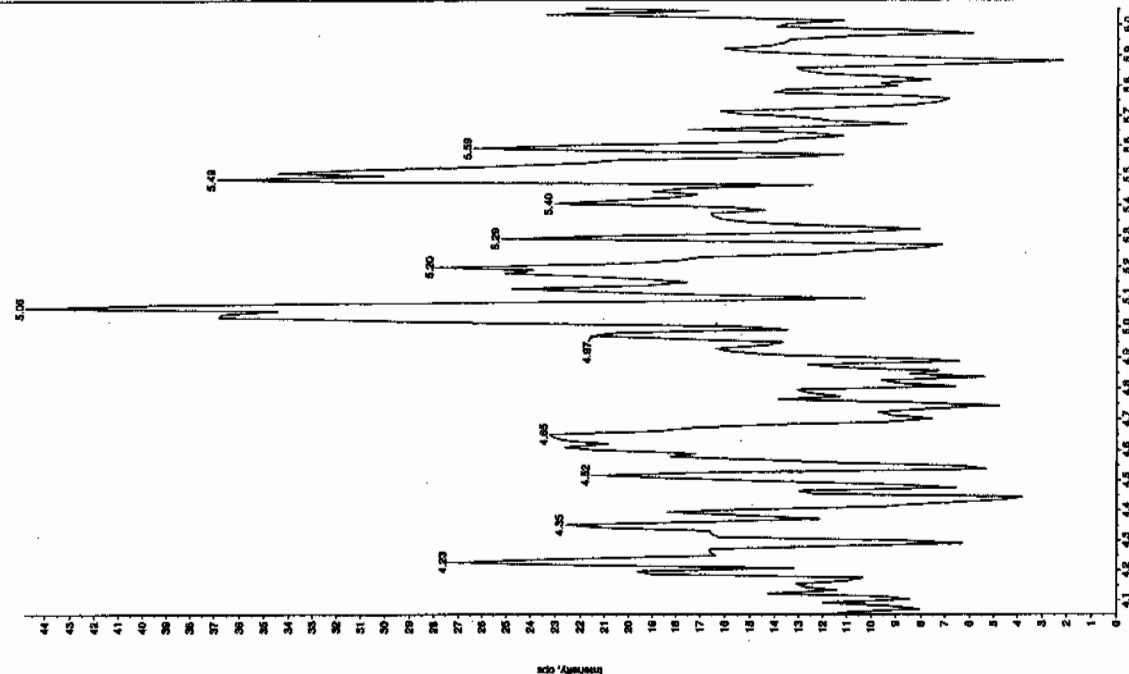
Sample Name: "YBLV04" Sample ID: "YBLV" File: "E5301050028.wif"
 Peak Name: "74-Dichlorobenzene" Mass (m/z): "182.1751.9 amu"
 Concent: "LCMSSEXP_B" Annotation: "

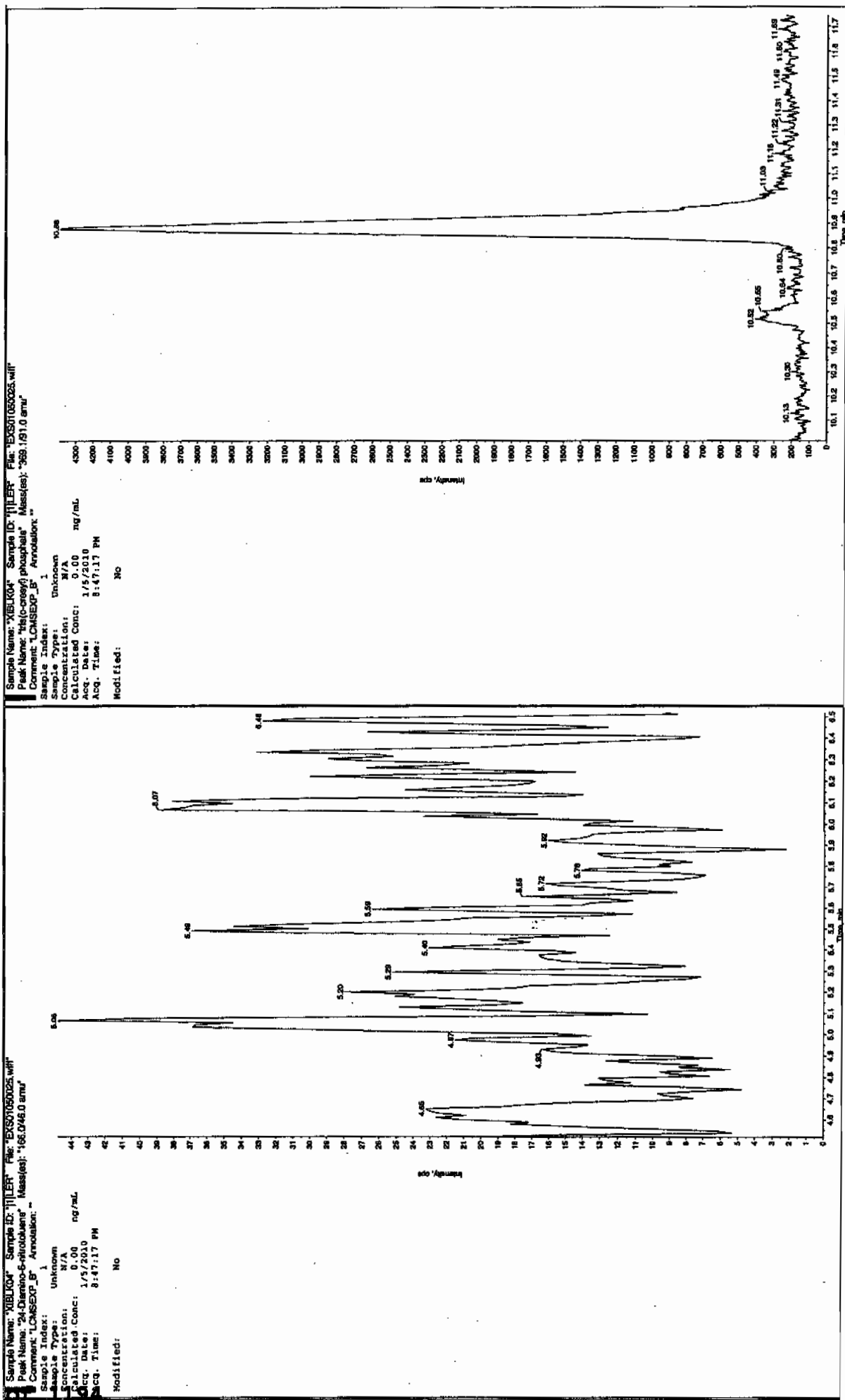
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/5/2010
 Acq. Time: 8:47:17 PM
 Modified: No



Sample Name: "YBLV04" Sample ID: "YBLV" File: "E5301050028.wif"
 Peak Name: "26-Dichlorobenzene" Mass (m/z): "186.0461.0 amu"
 Concent: "LCMSSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ug/mL
 Calculated Conc: 0.00
 Acq. Date: 1/5/2010
 Acq. Time: 8:47:17 PM
 Modified: No





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1036Lab Code: GELLab Sample ID: XIBLK05Analysis Date: 06-JAN-10 00:11GEL Data File: EXS01050038.wiffInstrument ID: LCMSMSColumn: 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

8/12/10
2/1/10

Sample Name: "XIBLK05" Sample ID: "11111" File: "EX01050038.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

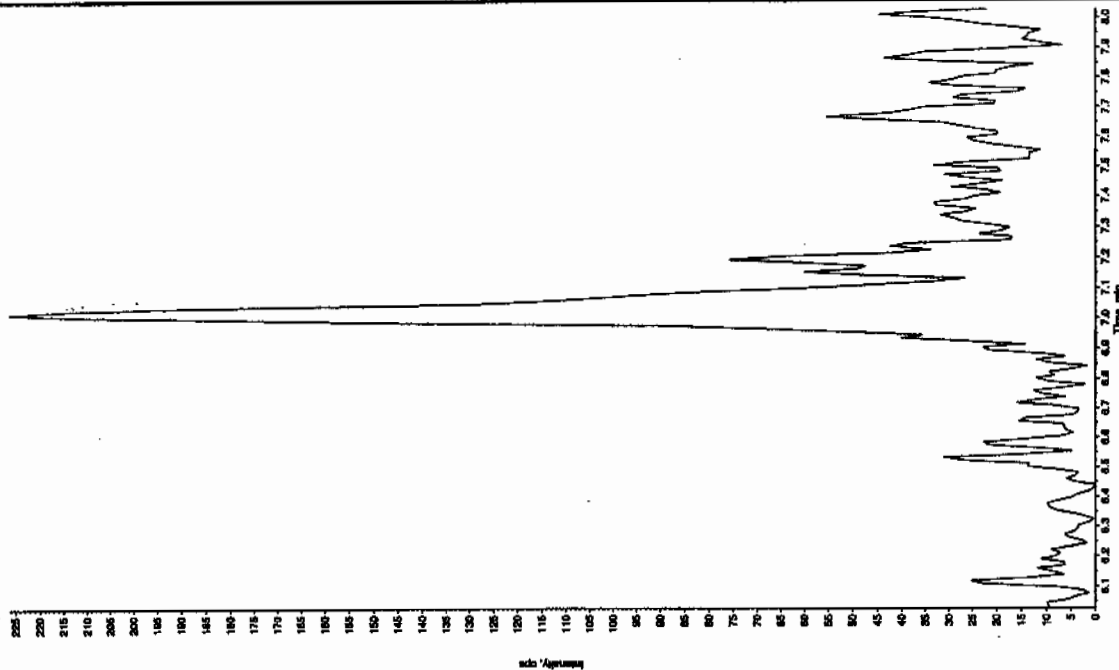
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 12:11:27 AM

Modified: No



Sample Name: "XIBLK05" Sample ID: "11111" File: "EX01050038.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "192.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

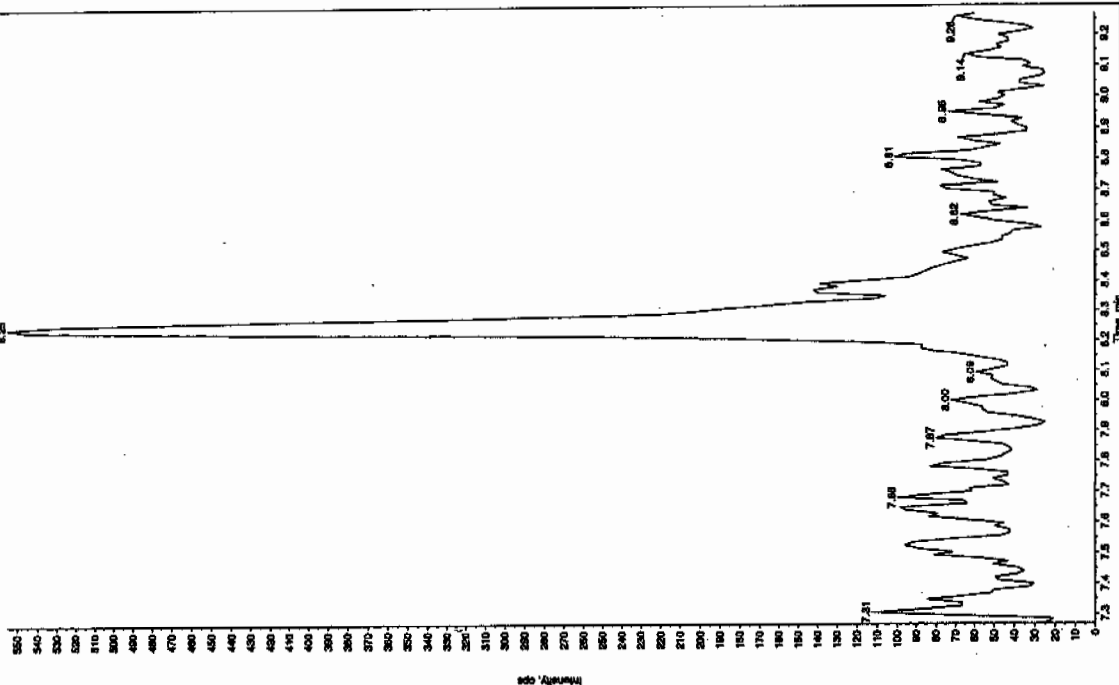
Concentration: N/A

Calculated Conc: 0.00 ng/mL

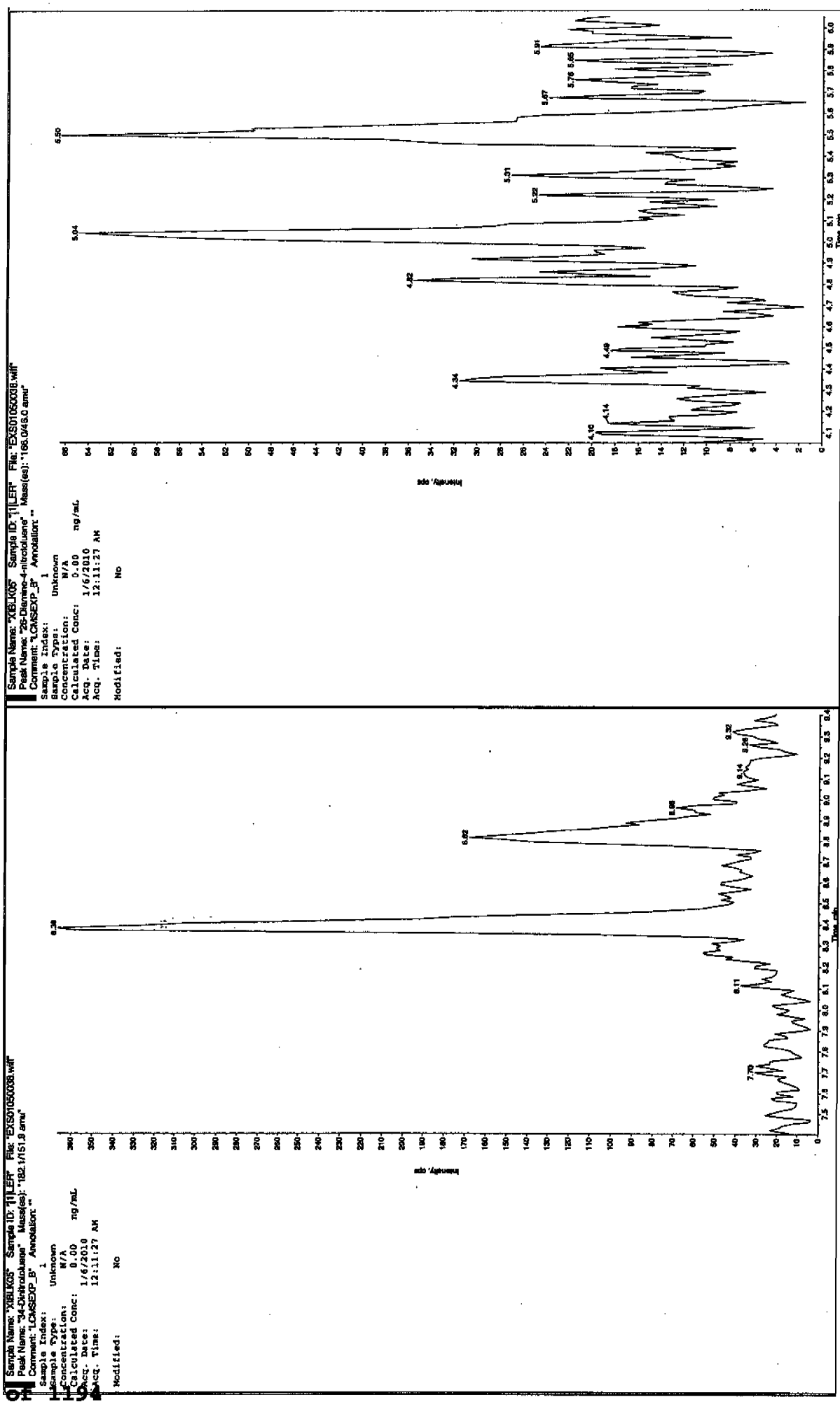
Acq. Date: 1/6/2010

Acq. Time: 12:11:27 AM

Modified: No



4/11/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK05" Sample ID: "TILER" File: "EX0105038.wiff"

Peak Name: "24-Diamino-6-phosphate" Mass(es): "165.046.0 amu"

Comment: "LCMS-EXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

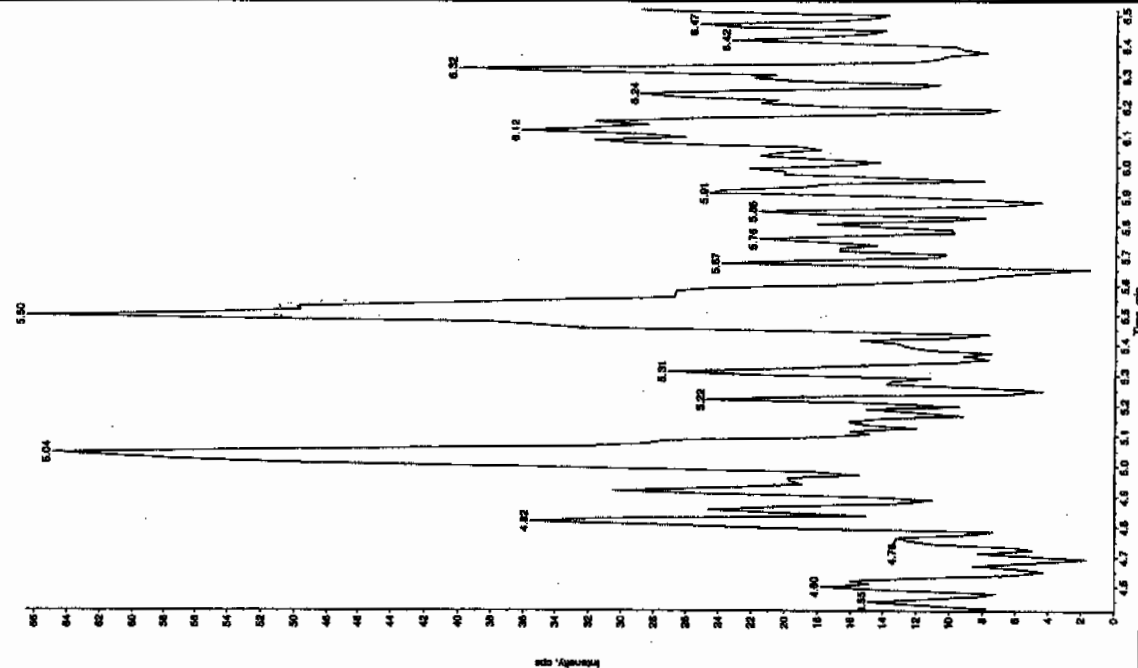
Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 12:11:27 AM

Acq. Time: 12:11:27 AM

Modified: No



Sample Name: "XBLK05" Sample ID: "TILER" File: "EX0105038.wiff"

Peak Name: "24-Diamino-6-phosphate" Mass(es): "369.191.0 amu"

Comment: "LCMS-EXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

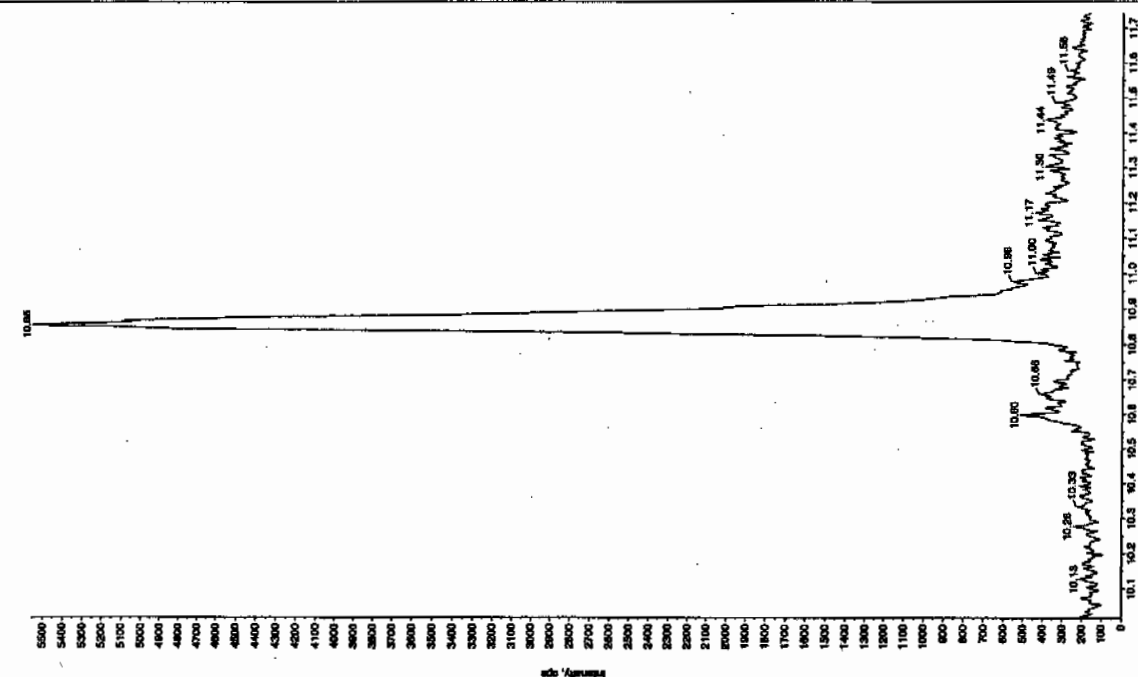
Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 12:11:27 AM

Acq. Time: 12:11:27 AM

Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 06-JAN-10 03:35

GEL Data File: EXS01050051.wiff

Instrument ID: LCMSMS

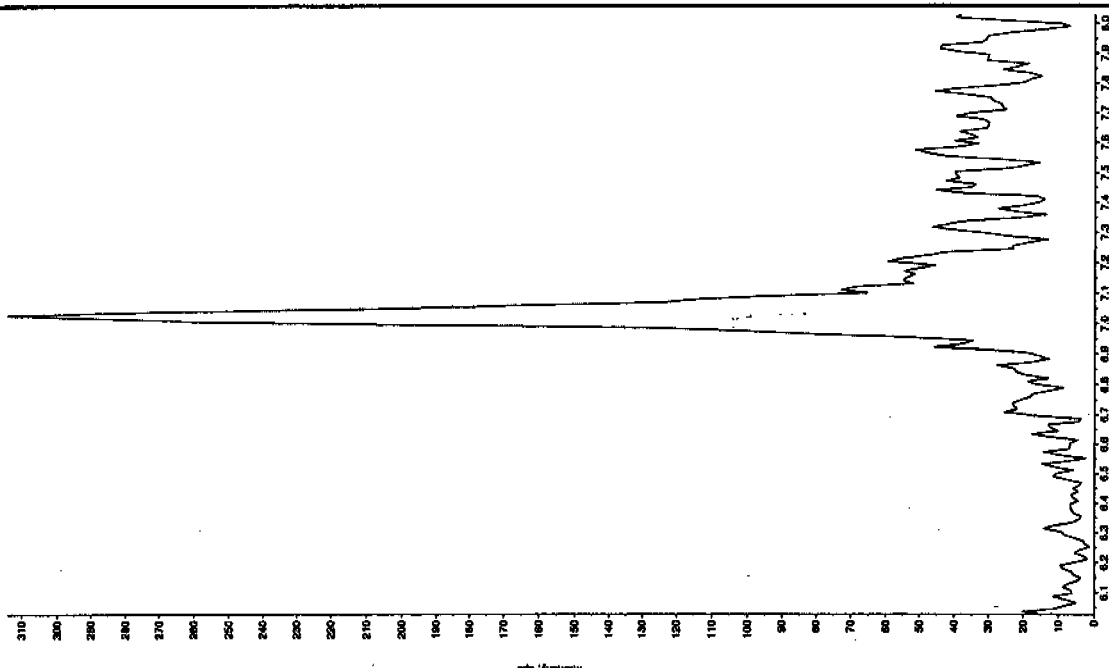
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0

01/13/10
2048

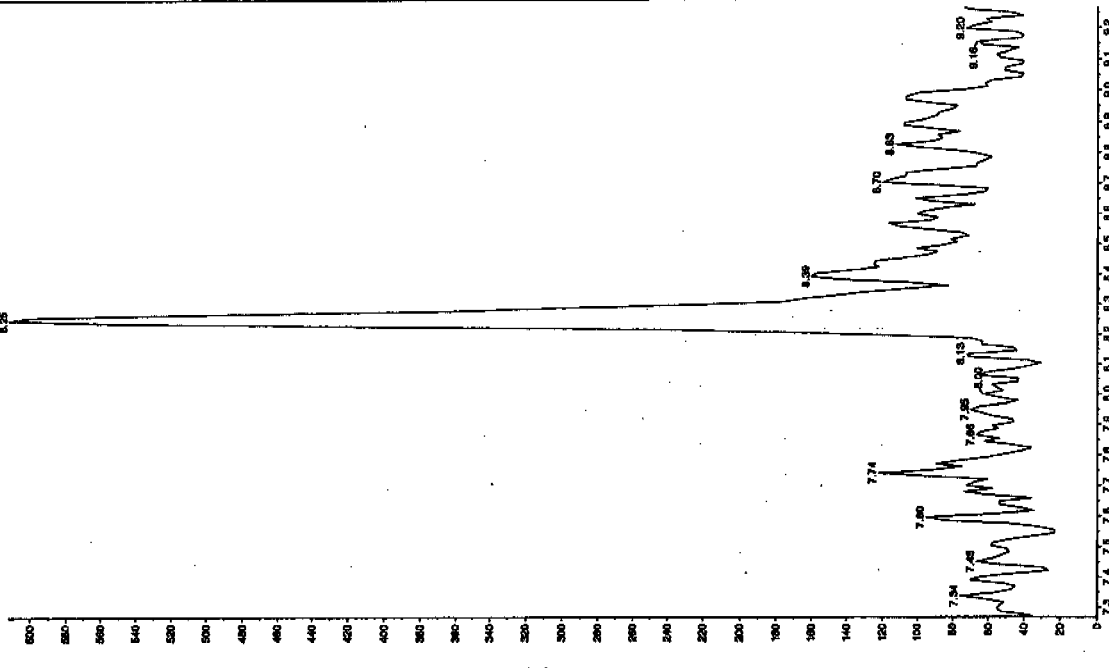
Sample Name: "YBUL008" Sample ID: "YBUL008" File: "EX501050051.wif"
Peak Name: "TATB" Mass(es): "227.204.9 and"
Conc: "LCMSExp_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 3:35:40 AM
Modified: No



Sample Name: "YBUL008" Sample ID: "YBUL008" File: "EX501050051.wif"
Peak Name: "TATB" Mass(es): "182.046.0 and"
Conc: "LCMSExp_B" Annotation: ""

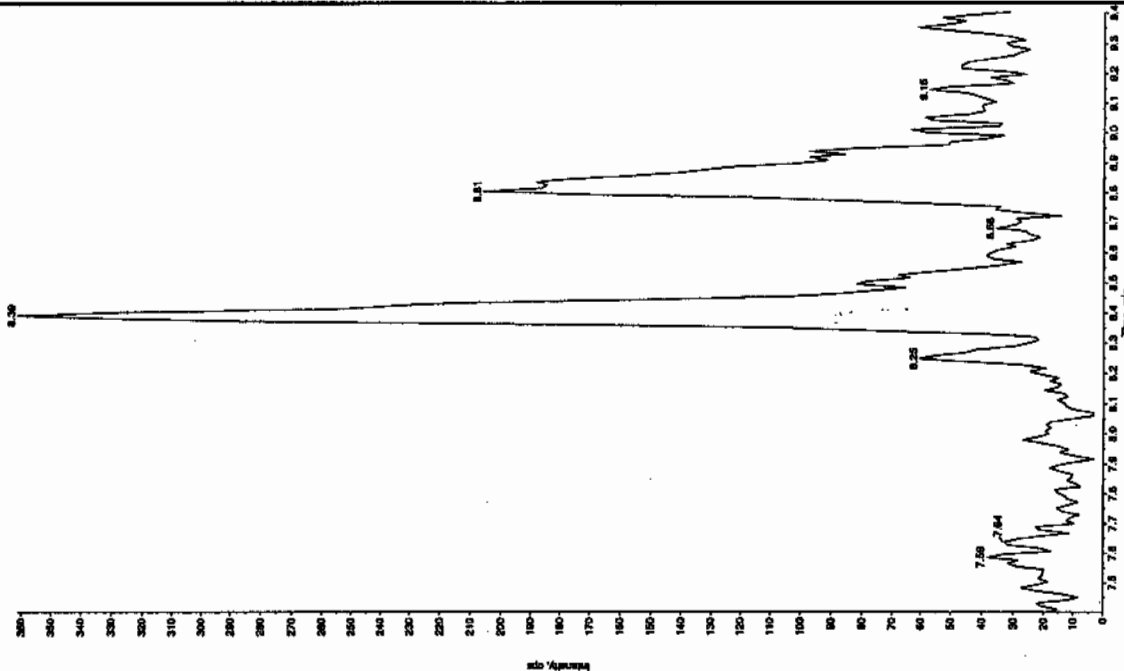
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 3:35:40 AM
Modified: No



Time 01/08/10

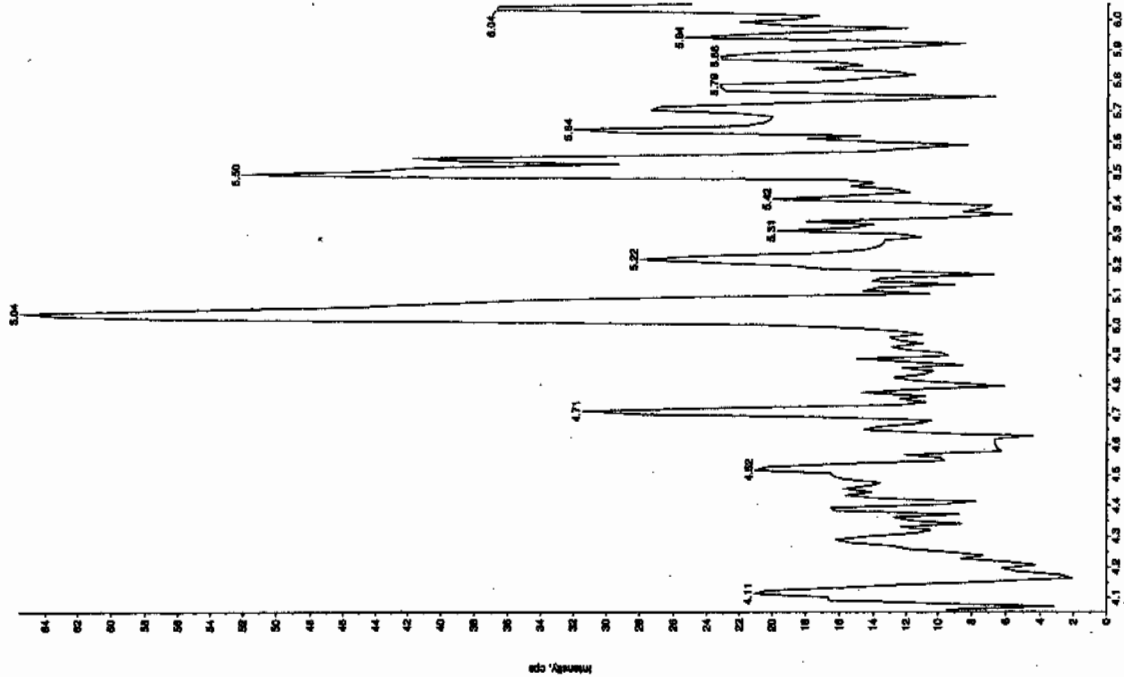
Sample Name: "XBLUG6" Sample ID: "111ER" File: "EX301060051.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1761.5 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 1/6/2010
 Acq. Time: 3:35:40 AM
 Modified: No



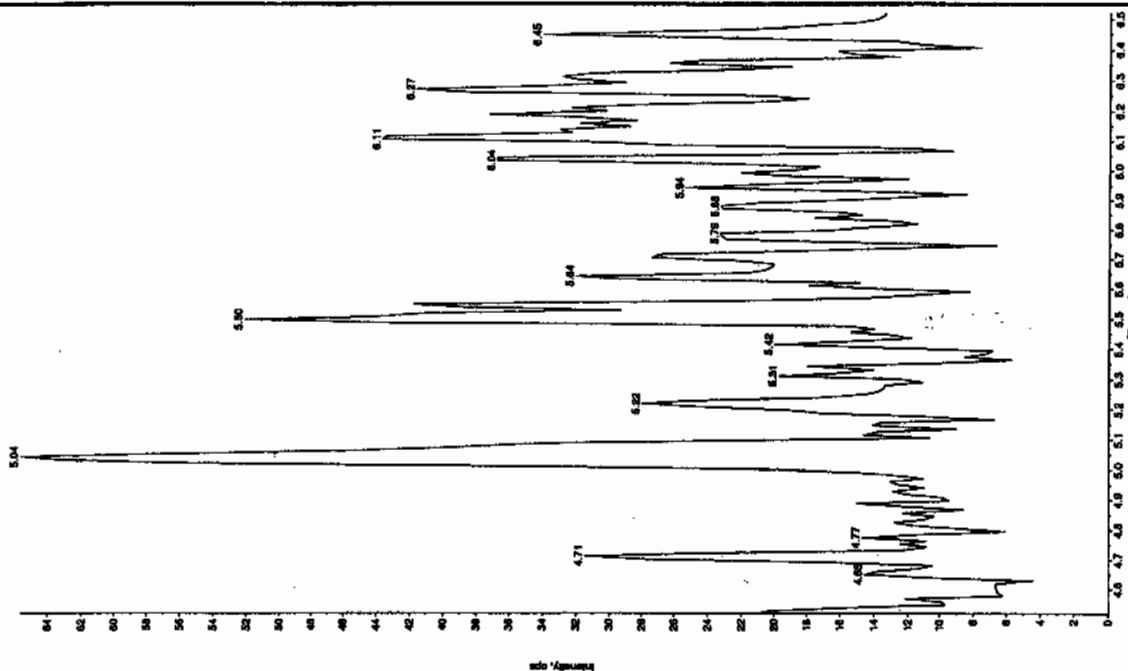
Sample Name: "XBLUG6" Sample ID: "111ER" File: "EX301060051.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 1/6/2010
 Acq. Time: 3:35:40 AM
 Modified: No



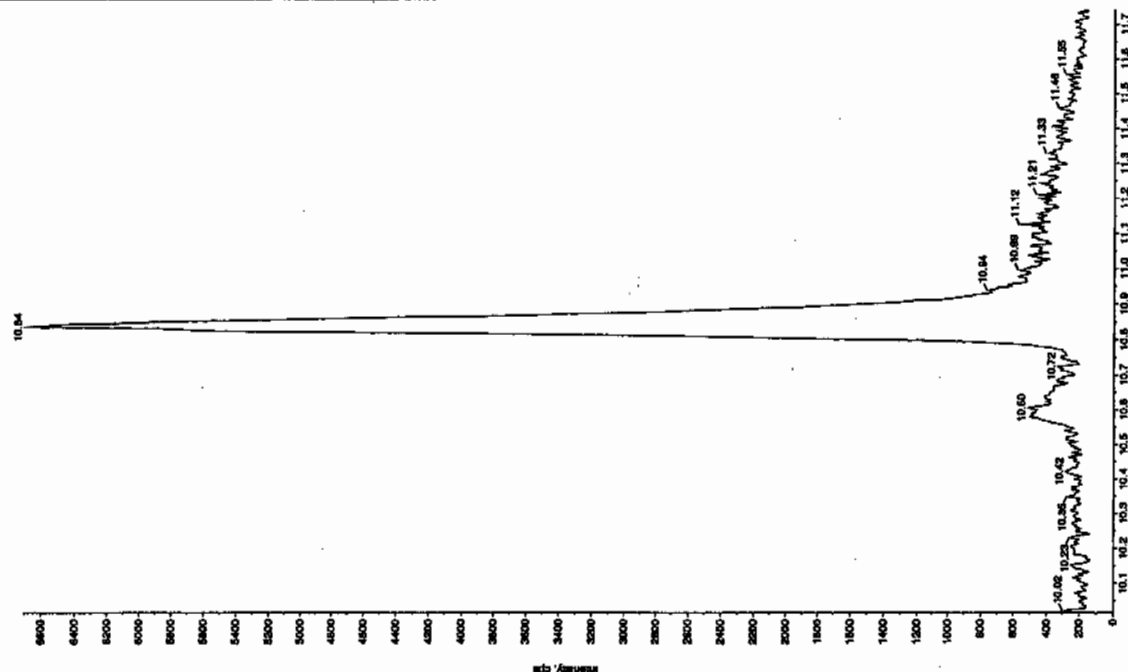
Sample Name: "XBL008" Sample ID: "11LEF" File: "EX0501060051.wit"
 Peak Name: "24-Dinitro-entobutene" Mass(es): "180.046.0 amu"
 Comment: "CONSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:35:40 AM
 Modified: No



Sample Name: "XBL008" Sample ID: "11LEF" File: "EX0501060051.wit"
 Peak Name: "bis(o-nonyl) phosphate" Mass(es): "388.1791.0 amu"
 Comment: "CONSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:35:40 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 06-JAN-10 06:59

GEL Data File: EXS01050064.wiff

Instrument ID: LCMSMS

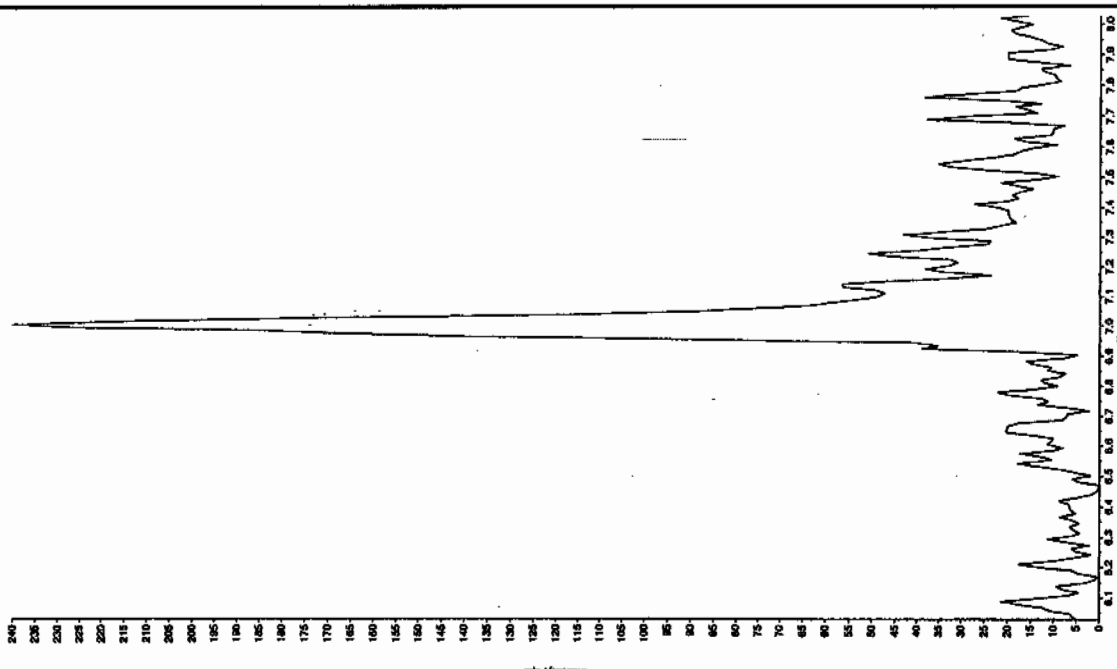
Column: Phenomenex Ultracarb 5u ODS(20)

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

11/14/10
JMS

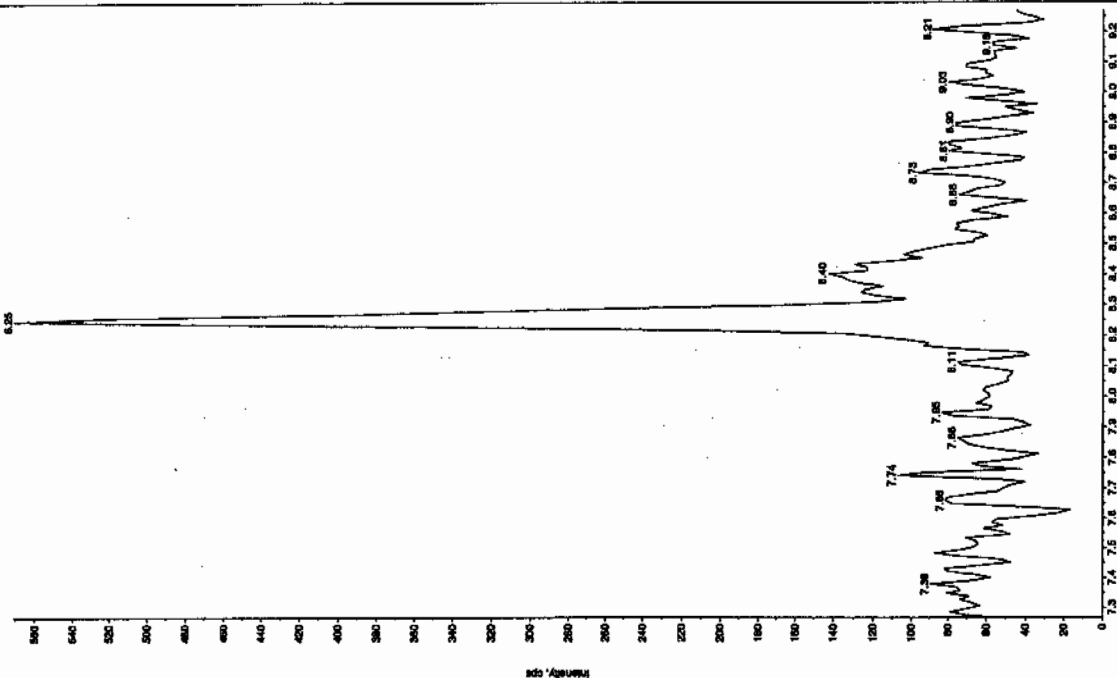
Sample Name: "XELK07" Sample ID: "1111ER" File: "EXS01050064.will"
Peak Name: "TA1B" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No

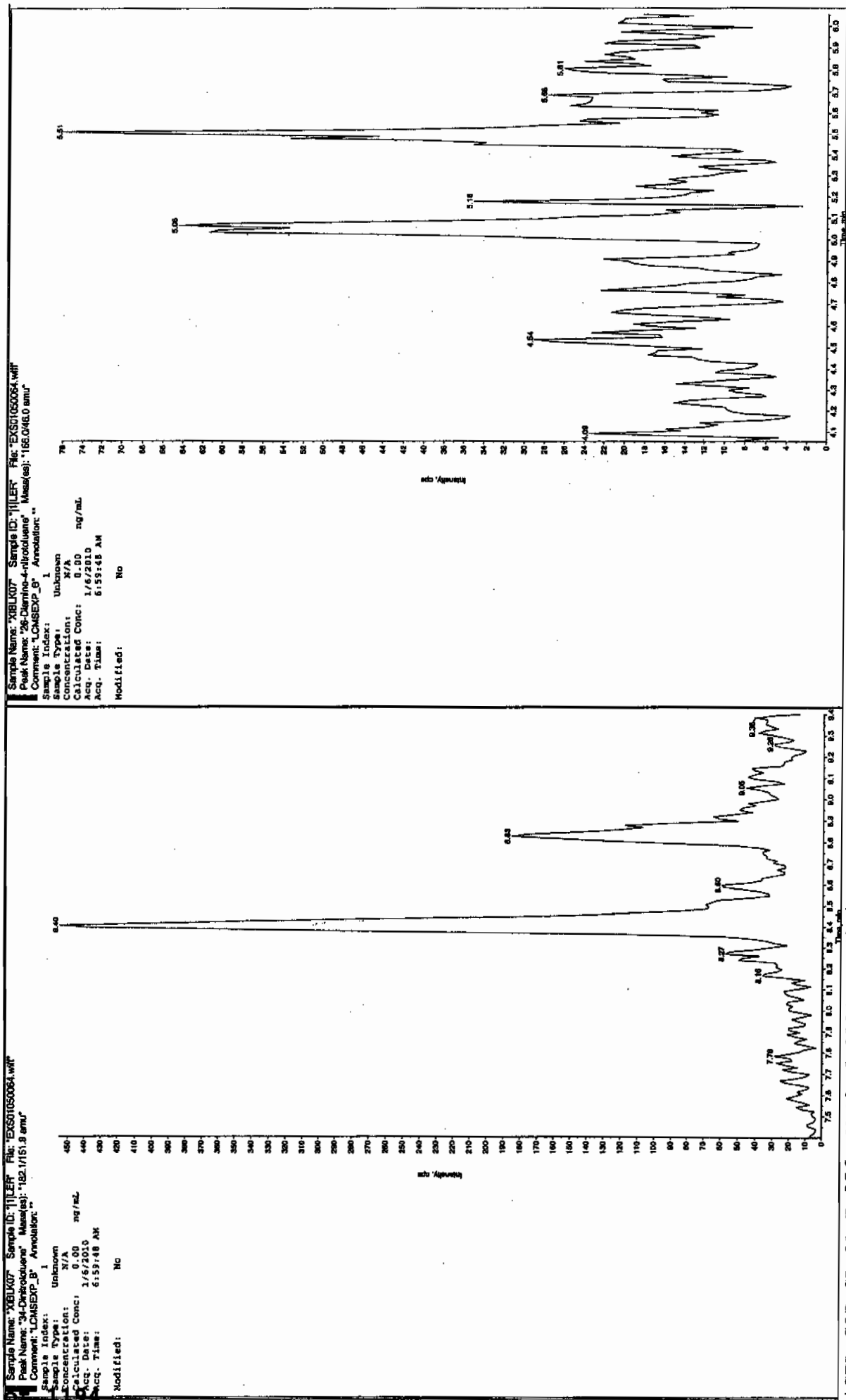


Sample Name: "XELK07" Sample ID: "1111ER" File: "EXS01050064.will"
Peak Name: "35-Dinitrophenol" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No



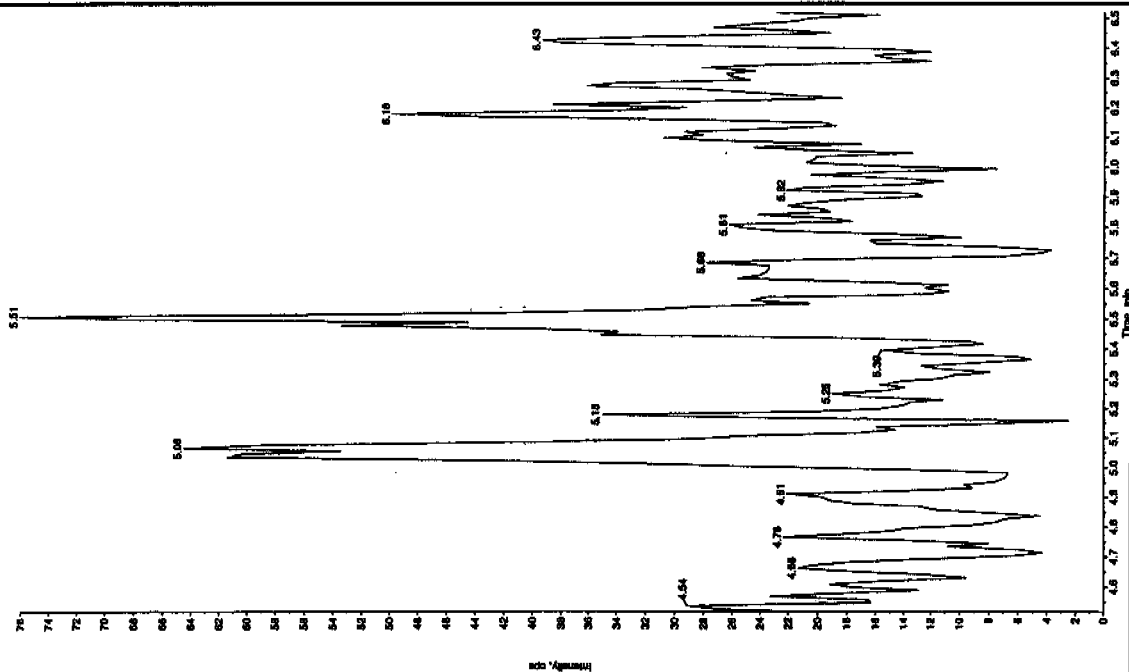
8mm 01/08/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

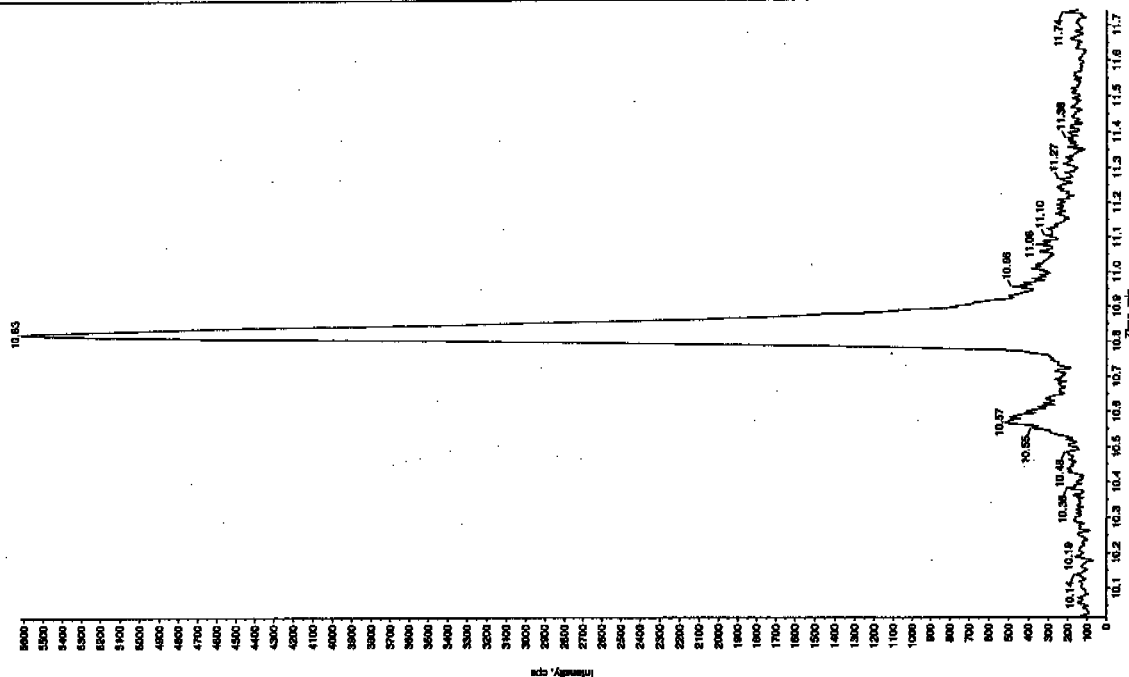
Sample Name: "XBLK07" Sample ID: "111111" File: "EX501050064.wif"
Peak Name: "2,4-Diamino-6-nitrophenol" Mass(es): "166.0460 amu"
Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No



Sample Name: "XBLK07" Sample ID: "111111" File: "EX501050064.wif"
Peak Name: "2,4-Diamino-6-nitrophenol" Mass(es): "338.1610 amu"
Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:59:48 AM
Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 06-JAN-10 08:02

GEL Data File: EXS01050068.wiff

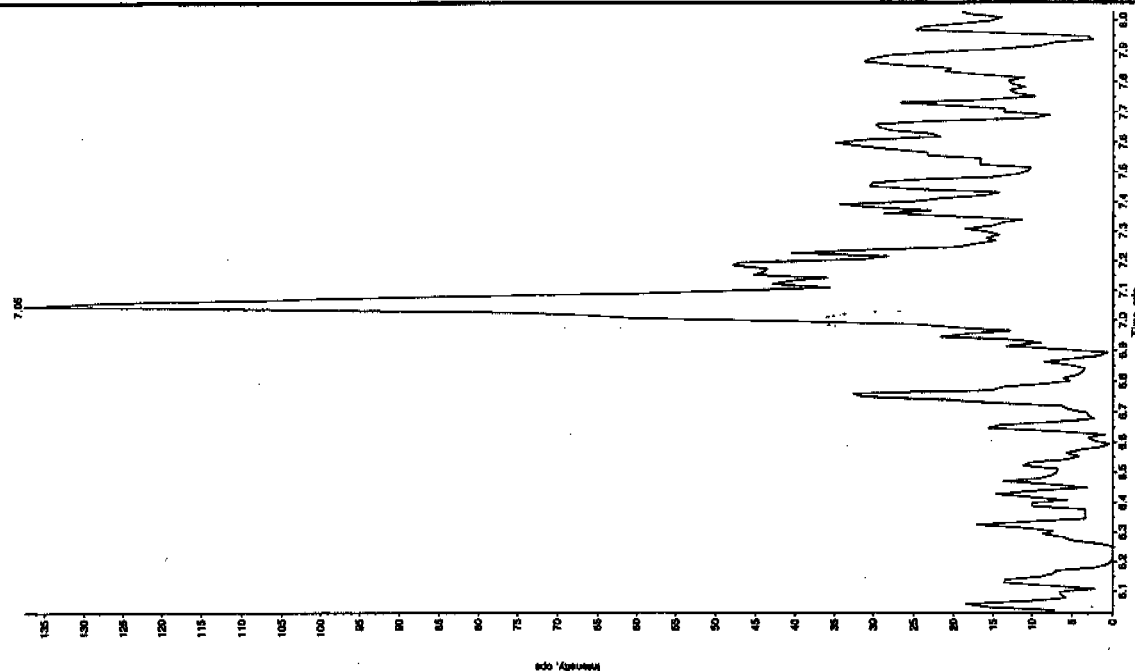
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0

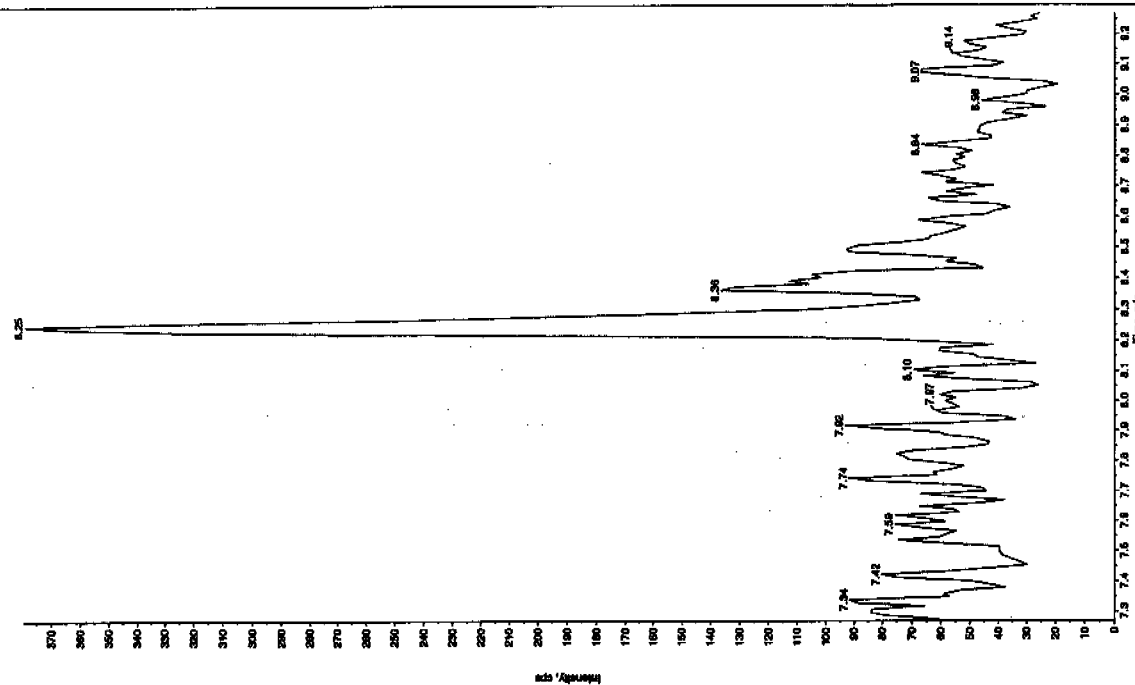
Sample Name: Y81108 Sample ID: Y11187 File: E:\301050088.wif
 Peak Name: Y11187 Retention Time: 237.204.9 and
 Comment: LCMSMS_P_1 Annotation:

Sample Index: 1
 Sample Name: Y81108
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:02:40 AM
 Modified: No



Sample Name: Y81108 Sample ID: Y11187 File: E:\301050088.wif
 Peak Name: Y81108 Retention Time: 102.046.0 and
 Comment: LCMSMS_P_1 Annotation:

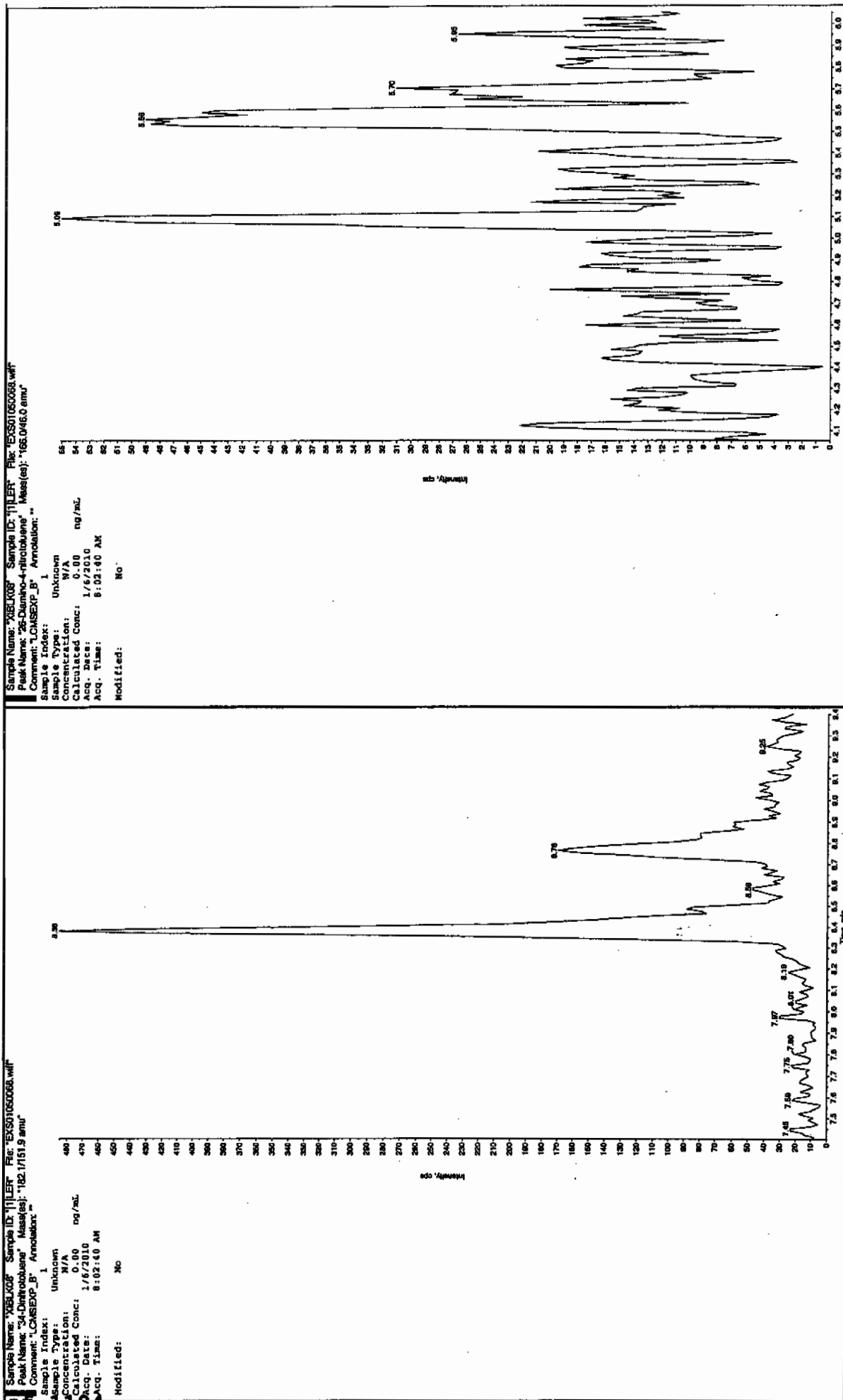
Sample Index: 1
 Sample Name: Y81108
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:02:40 AM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

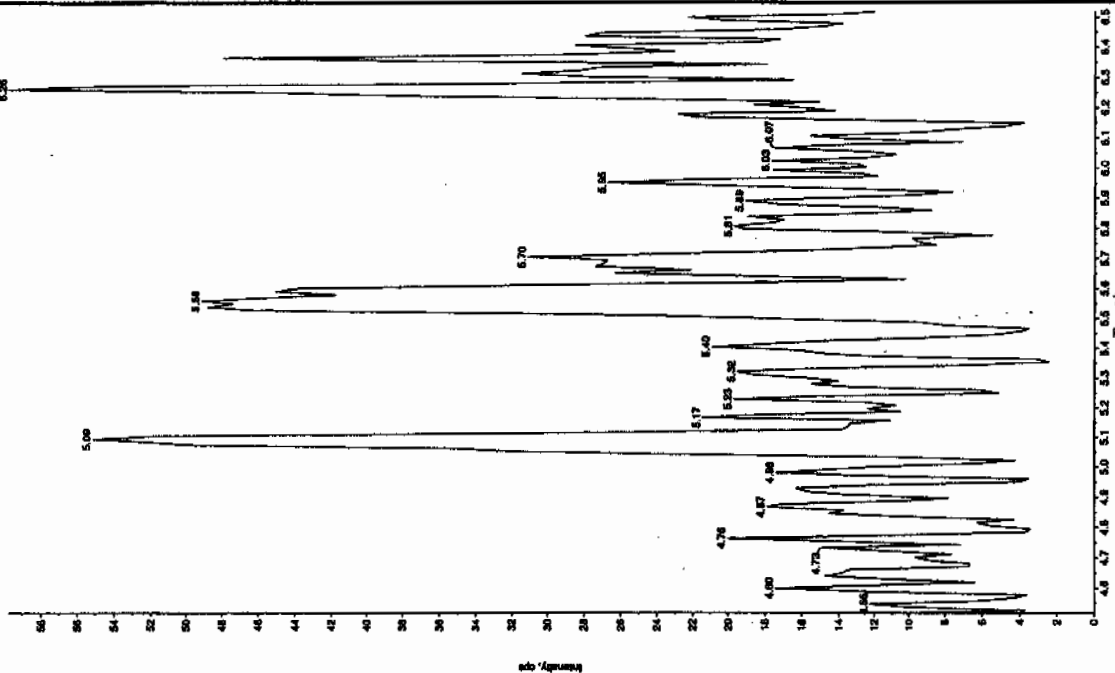
Y81108/10

Y81108/10

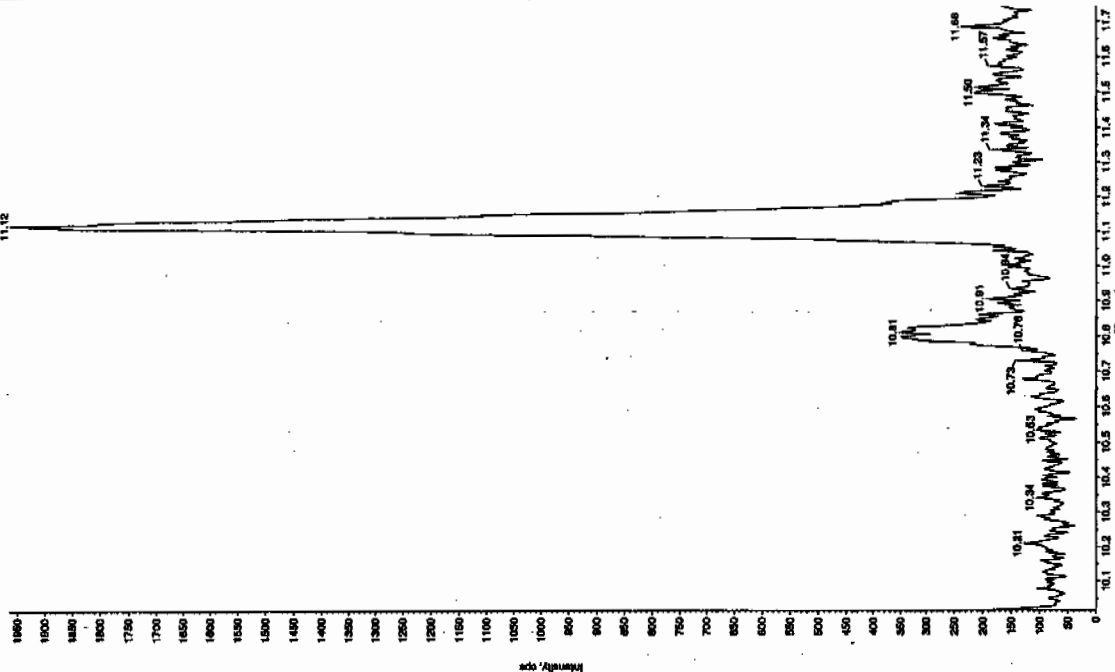


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK08" Sample ID: "11LRF" File: "EX501050068.wif"
 Peak Name: "24-Diamino-6-nitroketene" Mass(es): "165.046.0 amu"
 Comment: "LCMS EXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:02:40 AM
 Modified: No



Sample Name: "XBLK08" Sample ID: "11LRF" File: "EX501050068.wif"
 Peak Name: "Tri-(o-cresyl) phosphite" Mass(es): "389.181.0 amu"
 Comment: "LCMS EXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 8:02:40 AM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 06-JAN-10 08:49

GEL Data File: EXS01050071.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

11/11/10
LH110

Sample Name: 'VBL008' Sample ID: '111111' File: 'EX001060071.wif'

Peak Name: 'VBL008' Mass(es): 237.204.5 and

Comment: 'LONEXP_B' Annotation: "

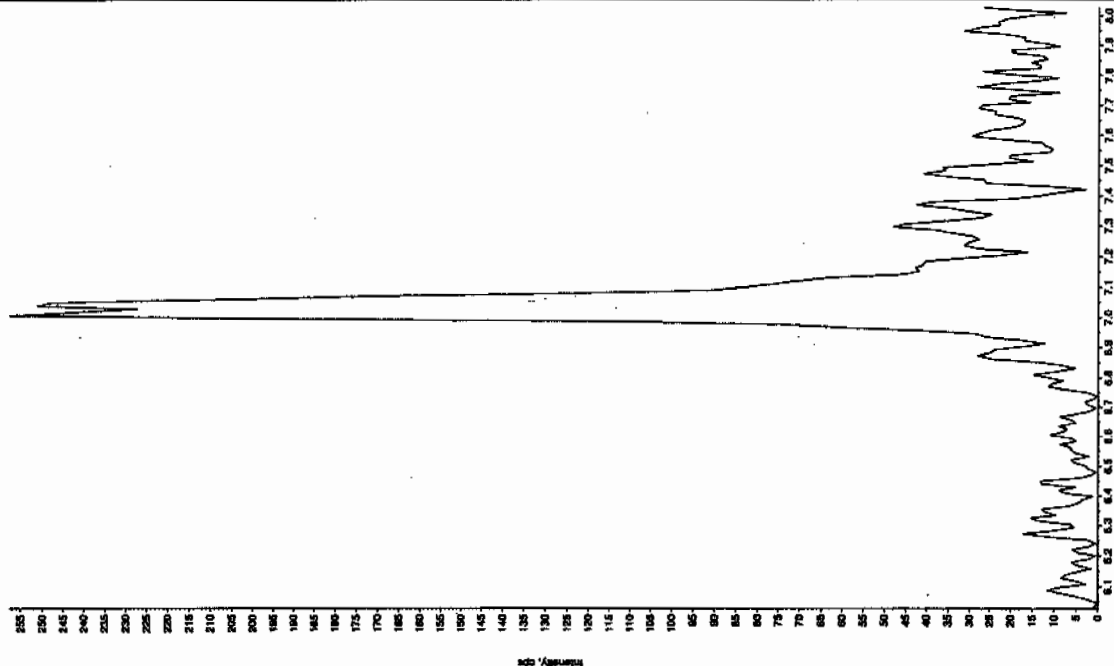
Sample Type: Unknown

Concentration: 0.00 ug/mL

Acq. Date: 1/6/2010

Acq. Time: 8:49:46 AM

Modified: No



Sample Name: 'VBL008' Sample ID: '111111' File: 'EX001060071.wif'

Peak Name: 'VBL008' Mass(es): 182.046.0 and

Comment: 'LONEXP_B' Annotation: "

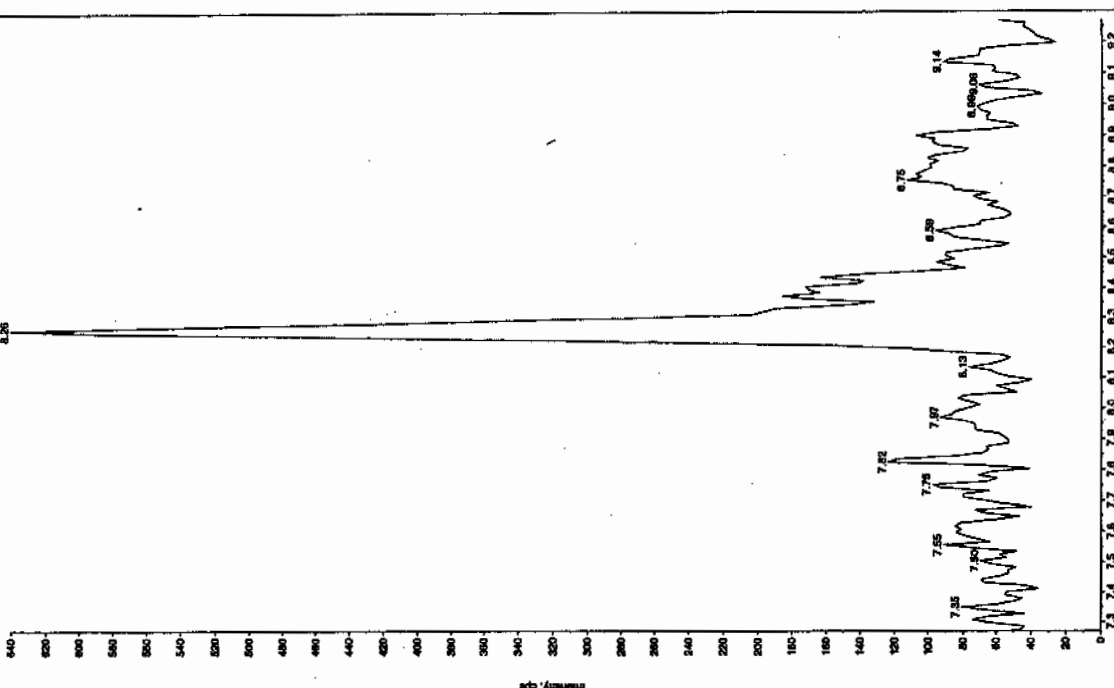
Sample Type: Unknown

Concentration: 0.00 ug/mL

Acq. Date: 1/6/2010

Acq. Time: 8:49:46 AM

Modified: No



11/11/10

Sample Name: "YBLX05" Sample ID: "YBLX05" File: "EXS01050071.wif"

Peak Name: "3A-Ornithine" Mass(es): "182.1/151.9 amu"

Comment: "LCMS/EXP_B" Annotation: "1"

Sample Index: 1

Sample Type: Unknown

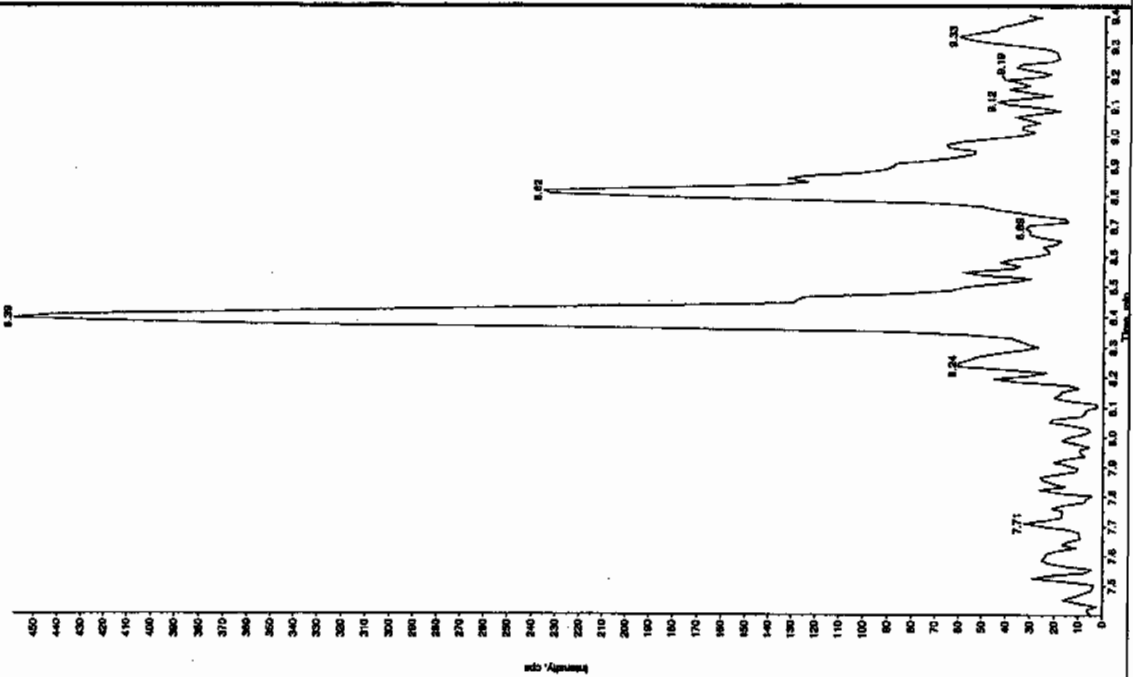
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 8:49:45 AM

Modified: No



Sample Name: "YBLX05" Sample ID: "YBLX05" File: "EXS01050071.wif"

Peak Name: "26-Ornithine-4-nitrobenzene" Mass(es): "186.0/165.0 amu"

Comment: "LCMS/EXP_B" Annotation: "1"

Sample Index: 1

Sample Type: Unknown

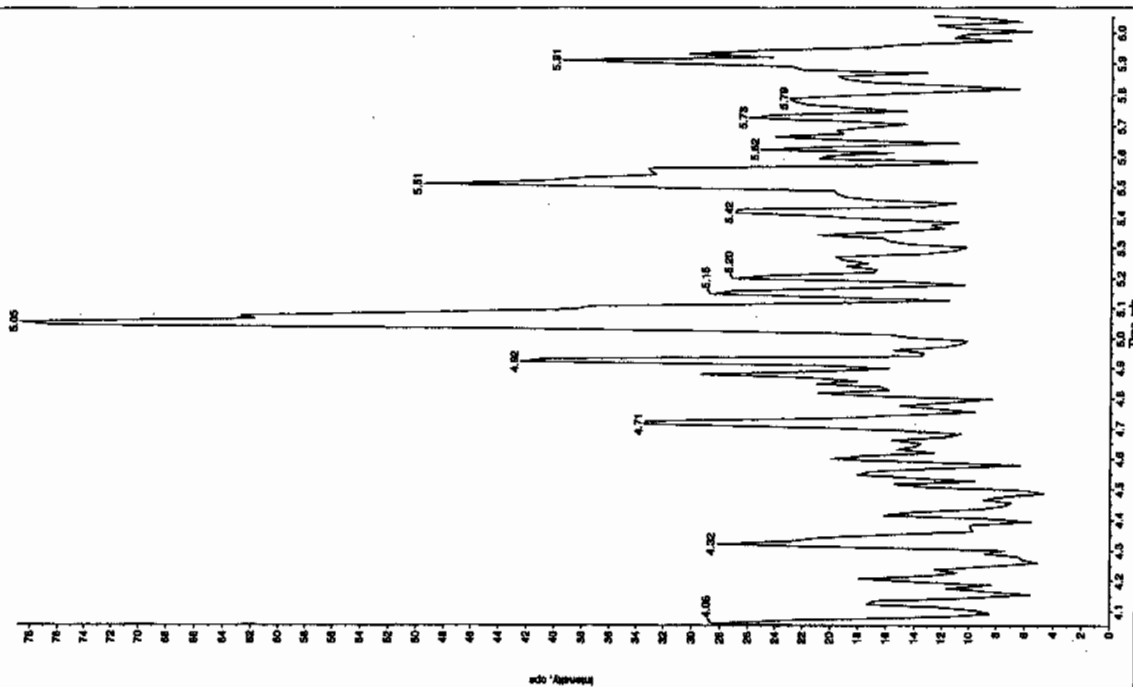
Concentration: N/A

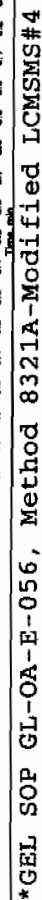
Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 8:49:45 AM

Modified: No





4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 06-JAN-10 12:13

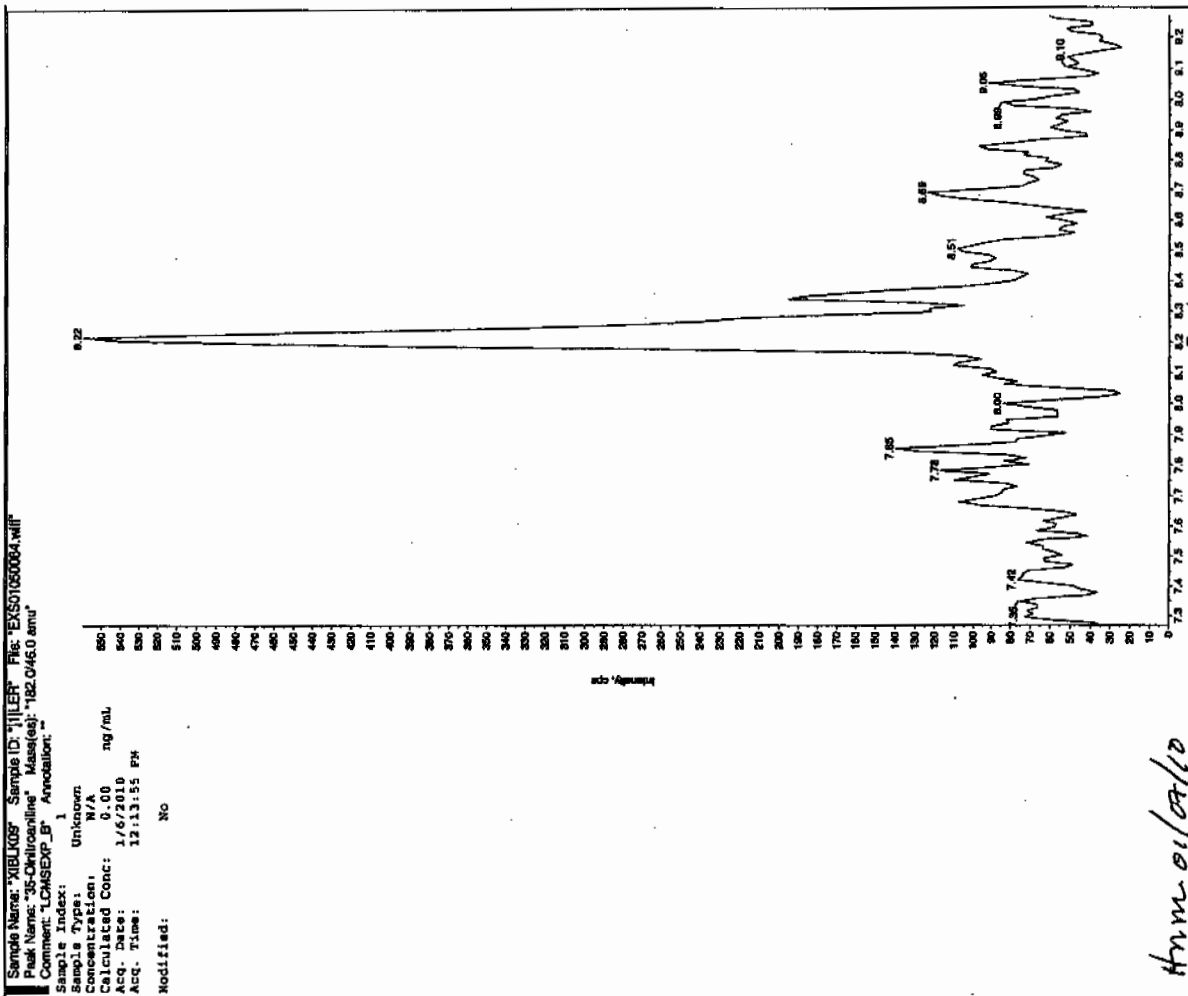
GEL Data File: EXS01050084.wiff

Instrument ID: LCMSMS

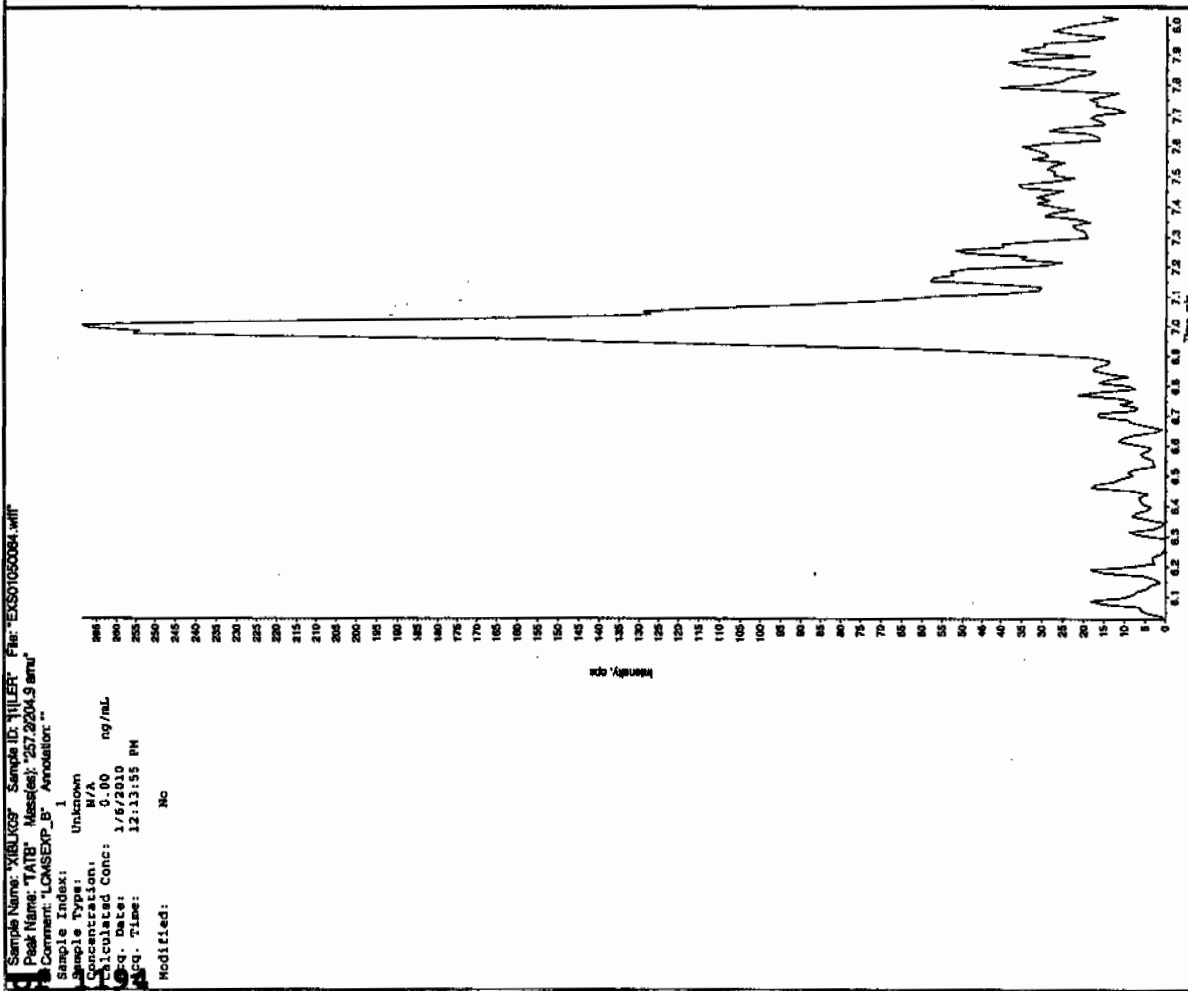
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/11/10
8/2/10



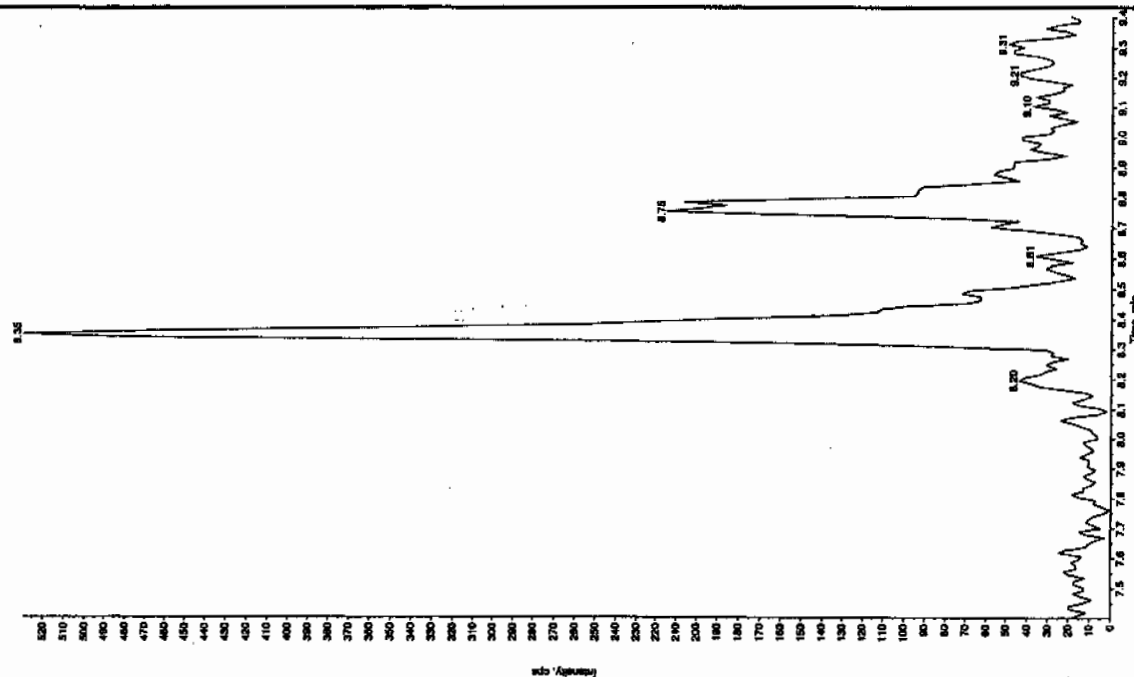
nm 01/09/10



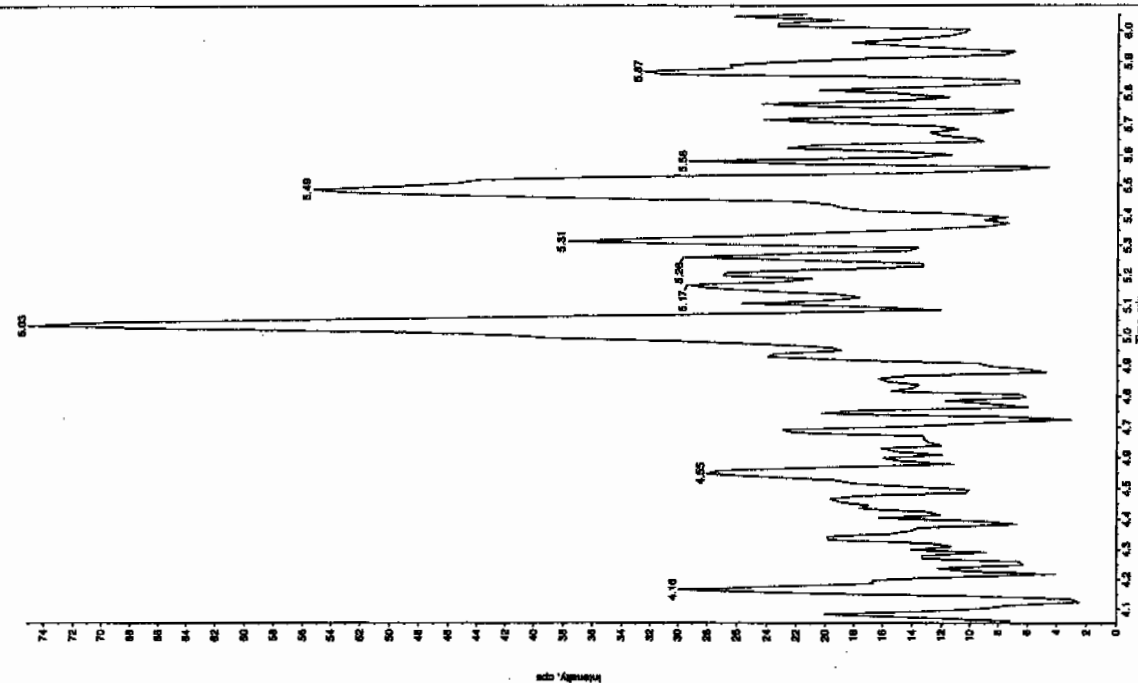
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK05" Sample ID: "JLLER" File: "EX501050084.wiff"
Peak Name: "26-Diamino-4-nitrotoluene" Mass(as): "166.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00 ng/mL
Q. Date:	1/6/2010
Q. Time:	12:13:55 PM
Modified:	No

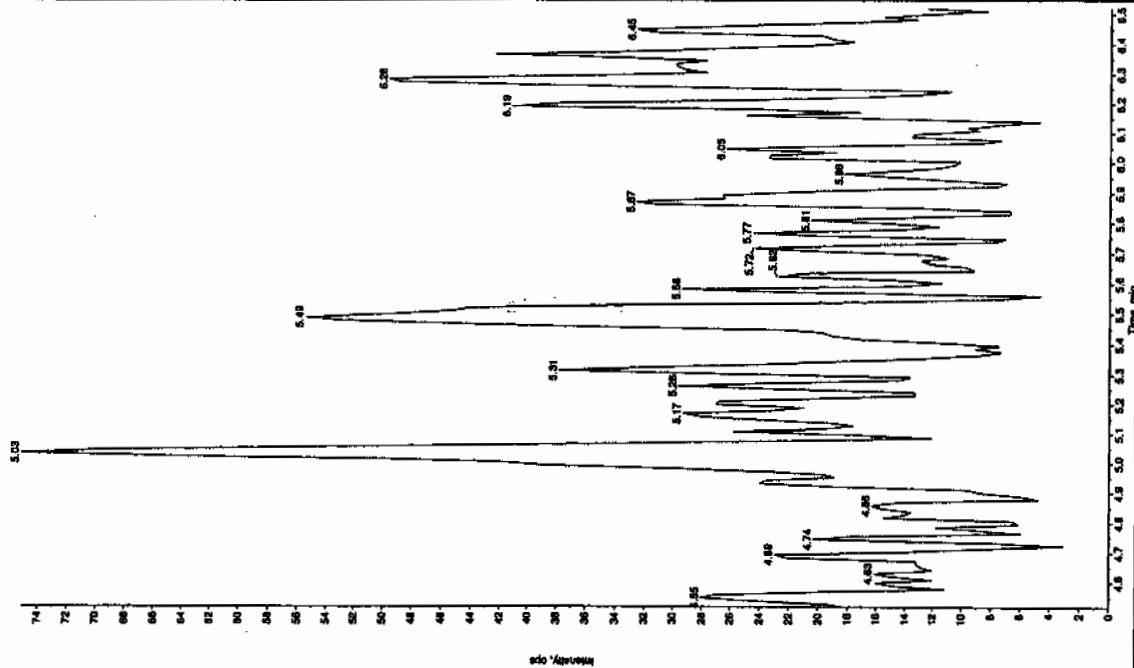


Sample Index:	Unknown
Sample Type:	N/A
Concentration:	0.00
Calculated Conc:	0.00
Acq. Date:	1/6/2010
Acq. Time:	12:13:55 PM
Modified:	No



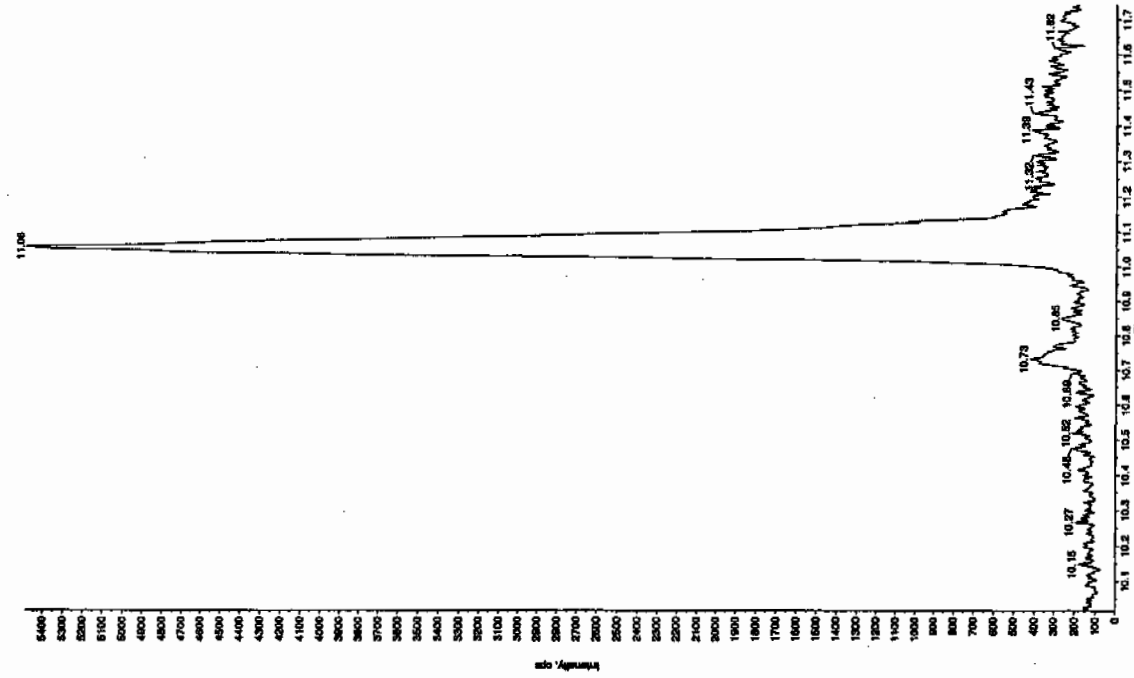
Sample Name: "XIBU03" Sample ID: "111ER" File: "EX301050094.wif"
 Peak Name: "24-Chloro-6-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCMSD_P" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:13:55 PM
 Modified: No



Sample Name: "XIBU03" Sample ID: "111ER" File: "EX301050094.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "389.181.0 amu"
 Comment: "LCMSD_P" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:13:55 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 06-JAN-10 15:28

GEL Data File: EXS01050096.wiff

Instrument ID: LCMSMS

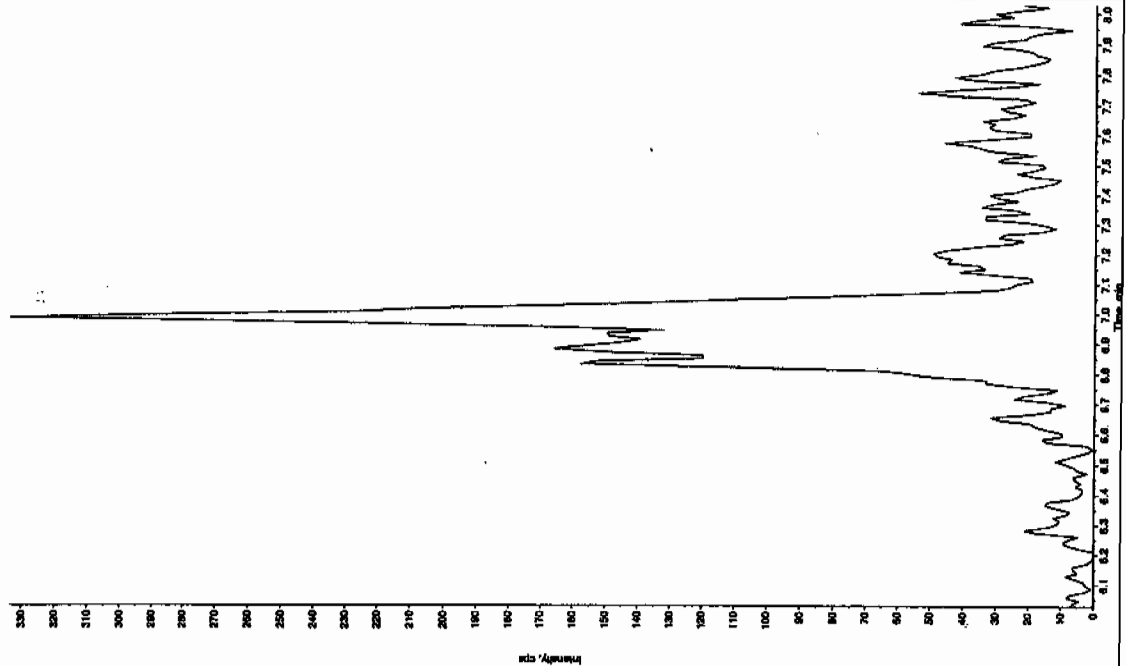
Column: Phenomenex Ultracarb 5u QDS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Box 1-110

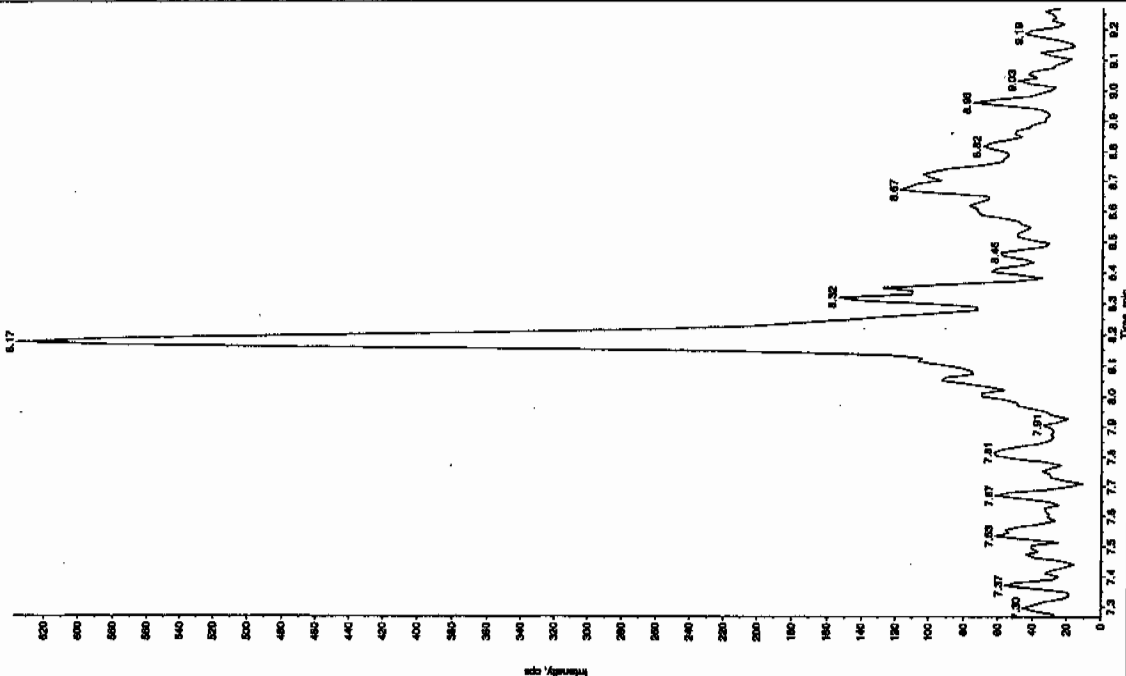
Sample Name: "XBLK10" Sample ID: "1115F" File: "EX501050086.will"
 Peak Name: "TATB" Mass(es): "257.2020.9 amu"
 Comment: "LCMSXP_3" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 3:28:30 PM
 Acq. Time: 3:28:30 PM
 Modified: No

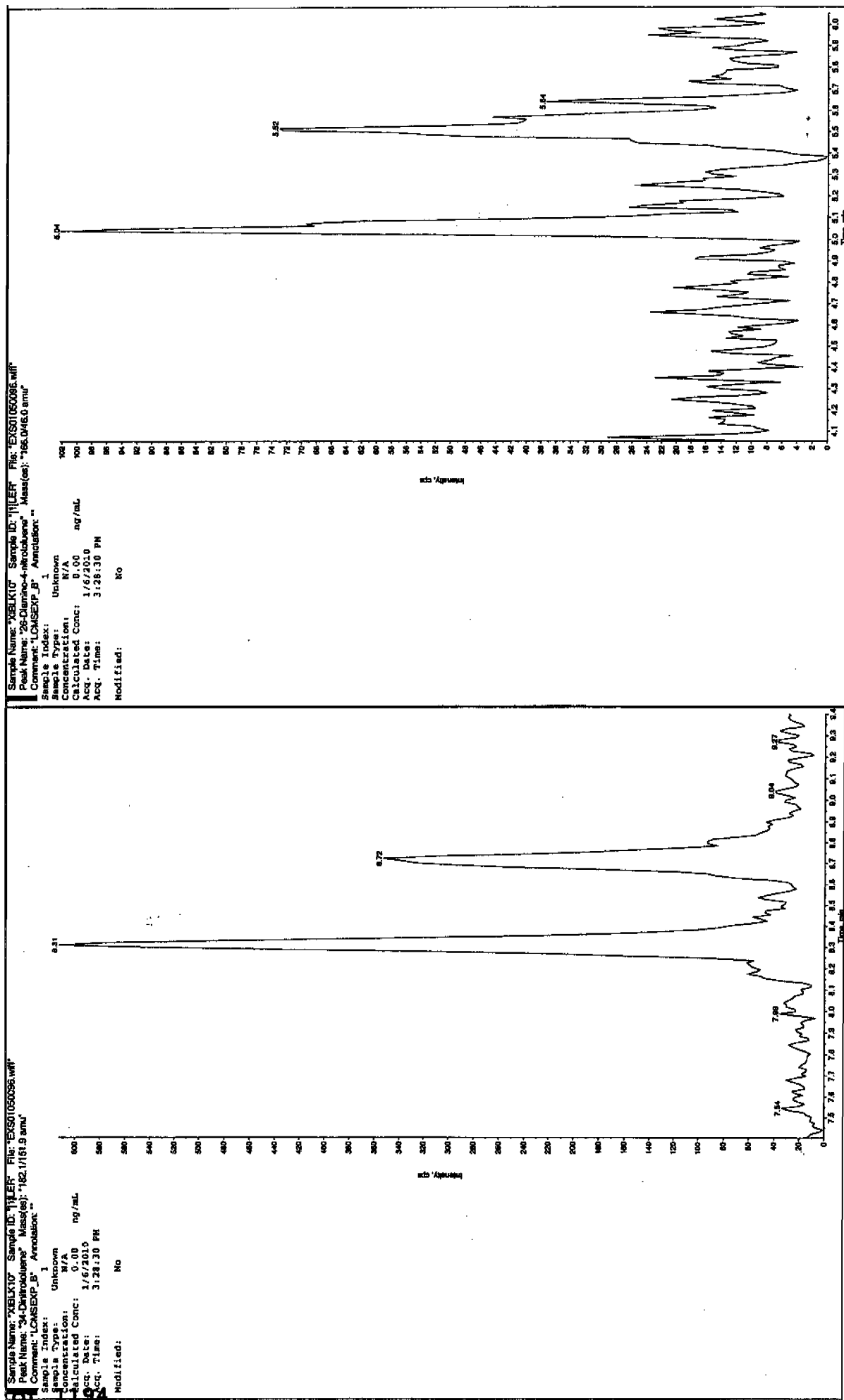


Sample Name: "XBLK10" Sample ID: "1115F" File: "EX501050086.will"
 Peak Name: "Ss-Dinitroaniline" Mass(es): "182.0460.0 amu"
 Comment: "LCMSXP_B" Annotation: "

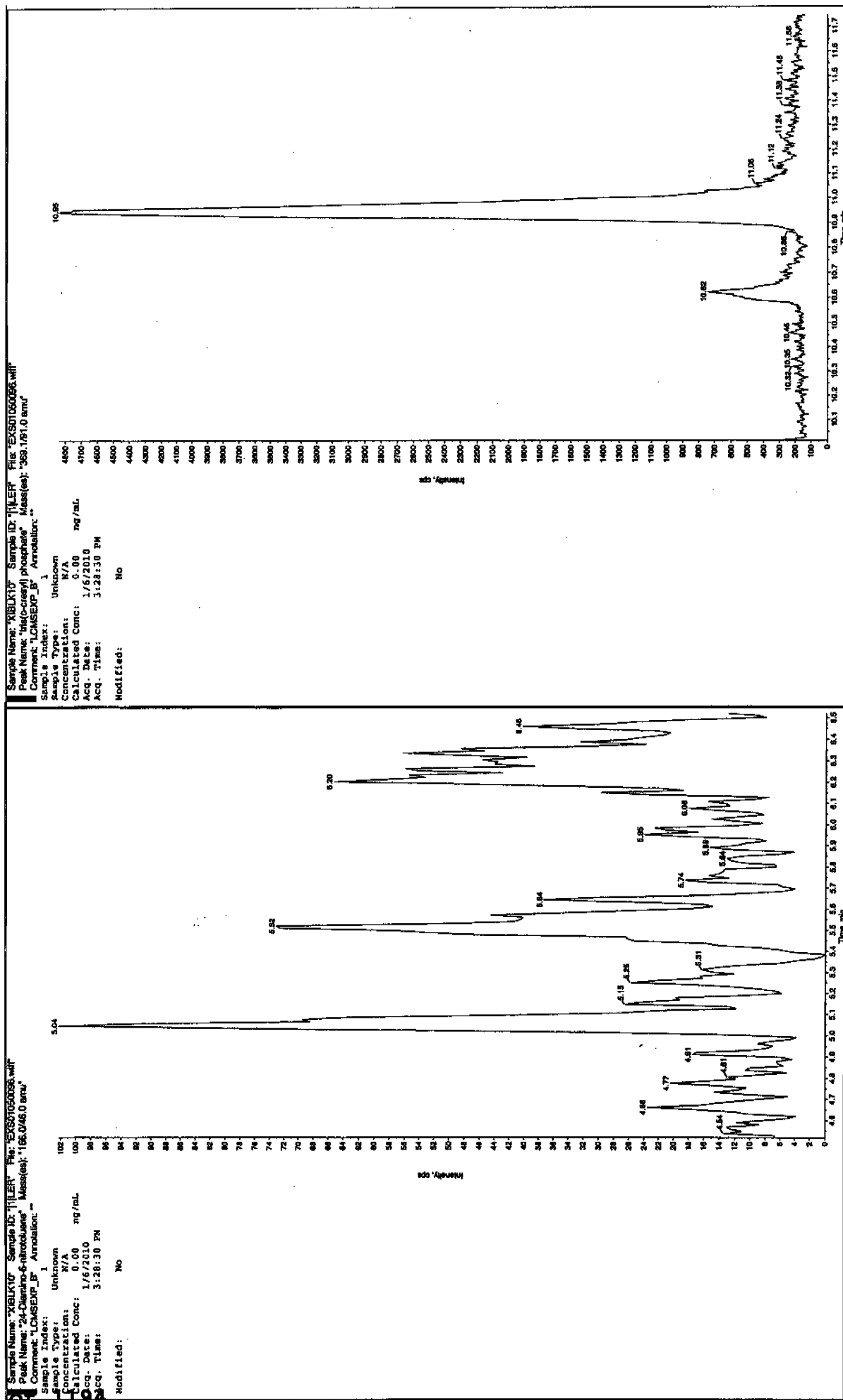
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 3:28:30 PM
 Acq. Time: 3:28:30 PM
 Modified: No



Time 0/10/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056; Method 8321A-Modified LCMSMS#4

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 06-JAN-10 18:52

GEL Data File: EXS01050109.wiff

Instrument ID: LCMSMS

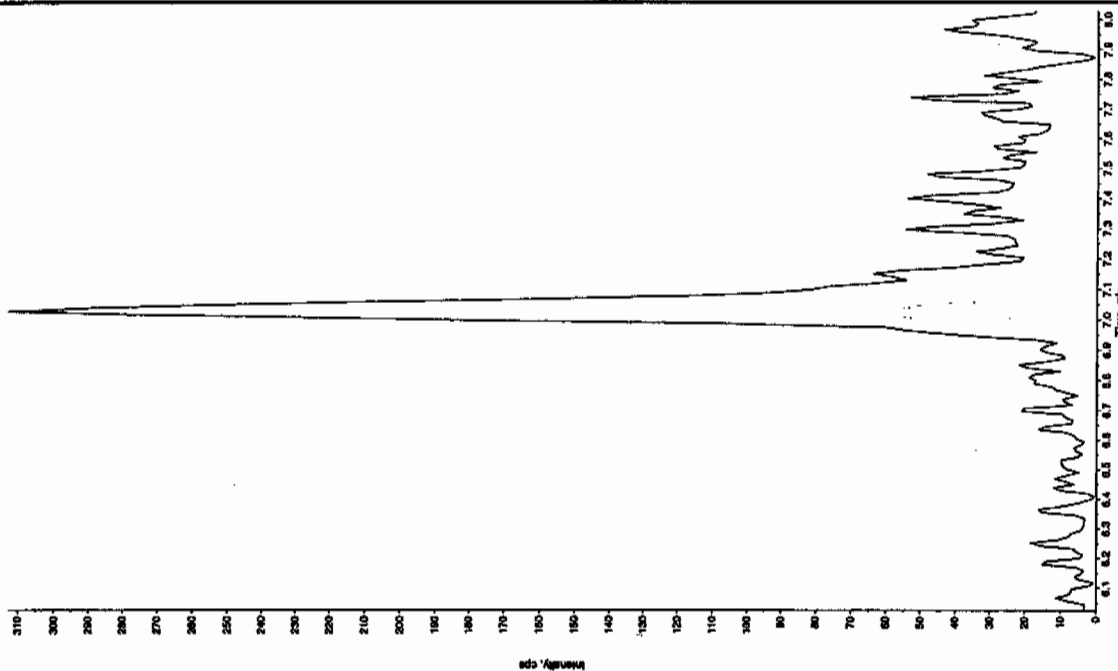
Column: Phenomenex Ultracarb 5u ODS(20)

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

1/7/10
2/2/10

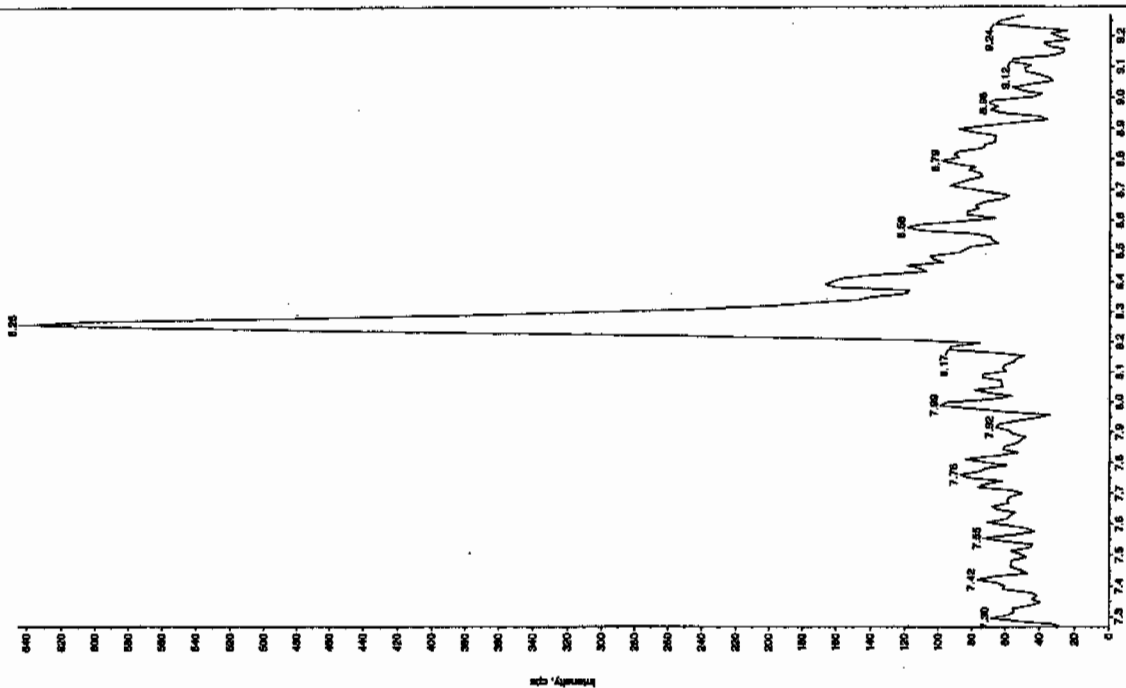
Sample Name: "XIBUKIT" Sample ID: "T11ER" File: "EX501050109.wif"
Peak Name: "T11ER" Mass(es): "257.2204.9 amu"
Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 6/5/2010
Acq. Time: 6:52:42 PM
Modified: No



Sample Name: "XIBUKIT" Sample ID: "T11ER" File: "EX501050109.wif"
Peak Name: "35-Dinitrobenzine" Mass(es): "182.046.0 amu"
Comment: "LCMSXP_B" Annotation: ""

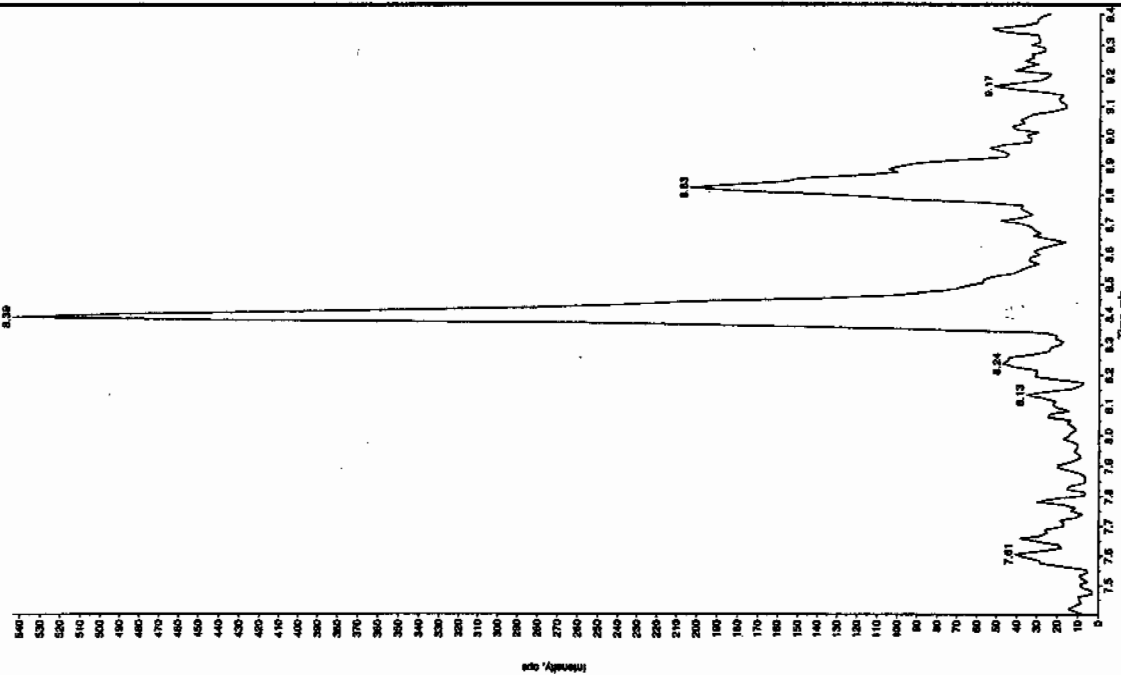
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 6/5/2010
Acq. Time: 6:52:42 PM
Modified: No



1/7/10
2/2/10

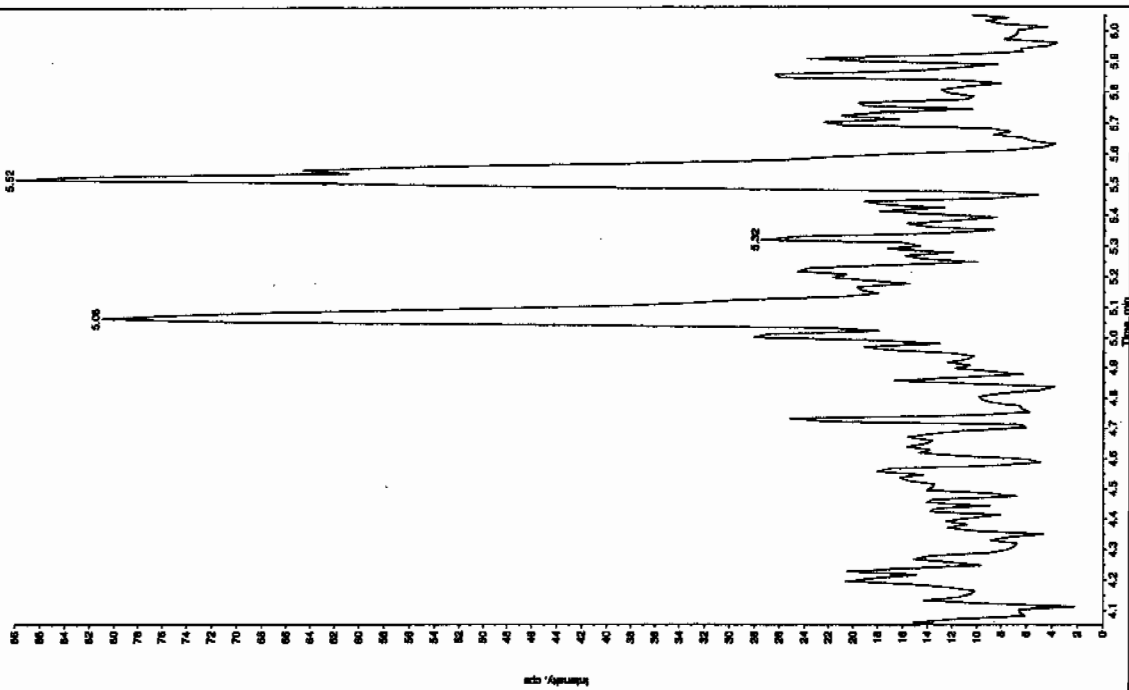
Sample Name: "YBLK11" Sample ID: "111ER" File: "EX501050105.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "102.1715.9 and"
 Comment: "LCMSD-15" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:52:42 PM
 Modified: No



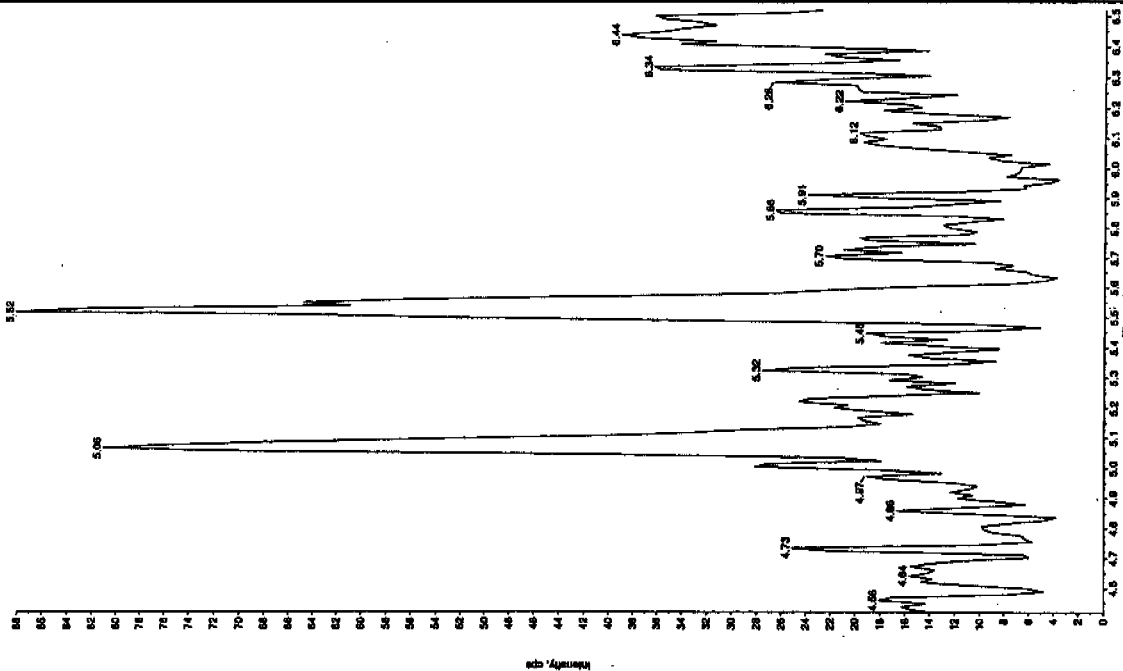
Sample Name: "YBLK11" Sample ID: "111ER" File: "EX501050105.wif"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "166.0463.0 amu"
 Comment: "LCMSD-15" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:52:42 PM
 Modified: No



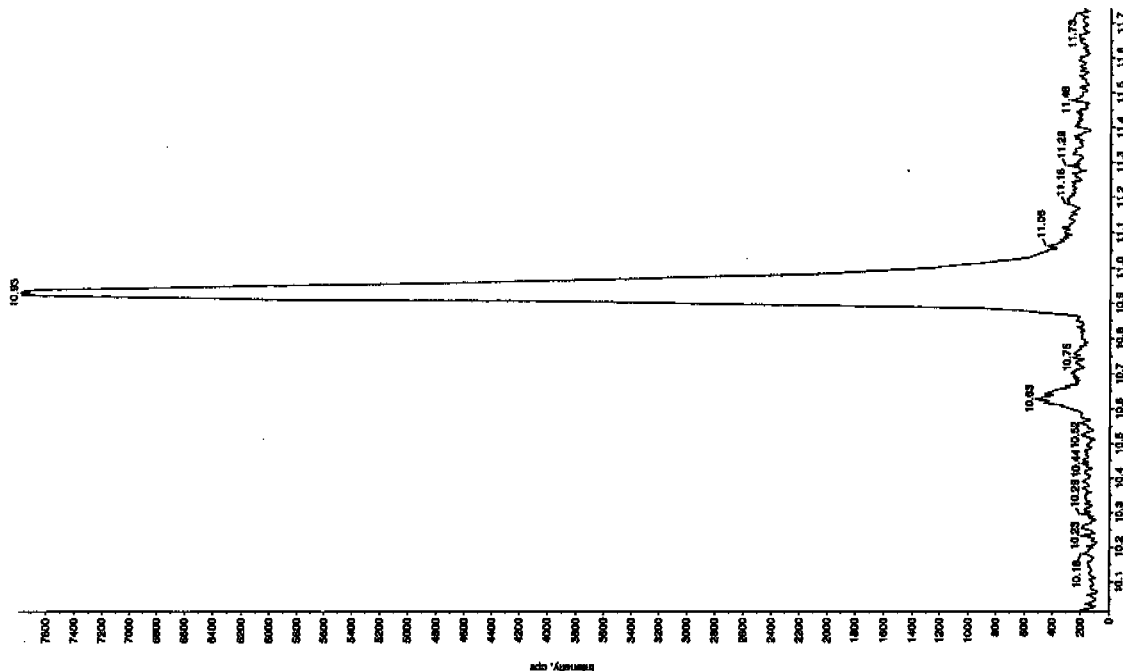
Sample Name: "XBLK11" Sample ID: "11LEF" File: "EX01050108.wif"
 Peak Name: "24-Diamino-2-nitrophenol" Mass(es): "186.046.0 amu"
 Comment: "LCMSXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:52:42 PM
 Modified: No



Sample Name: "XBLK11" Sample ID: "11LEF" File: "EX01050108.wif"
 Peak Name: "14(oxo-oxa) phosphatase" Mass(es): "359.191.0 amu"
 Comment: "LCMSXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:52:42 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK12

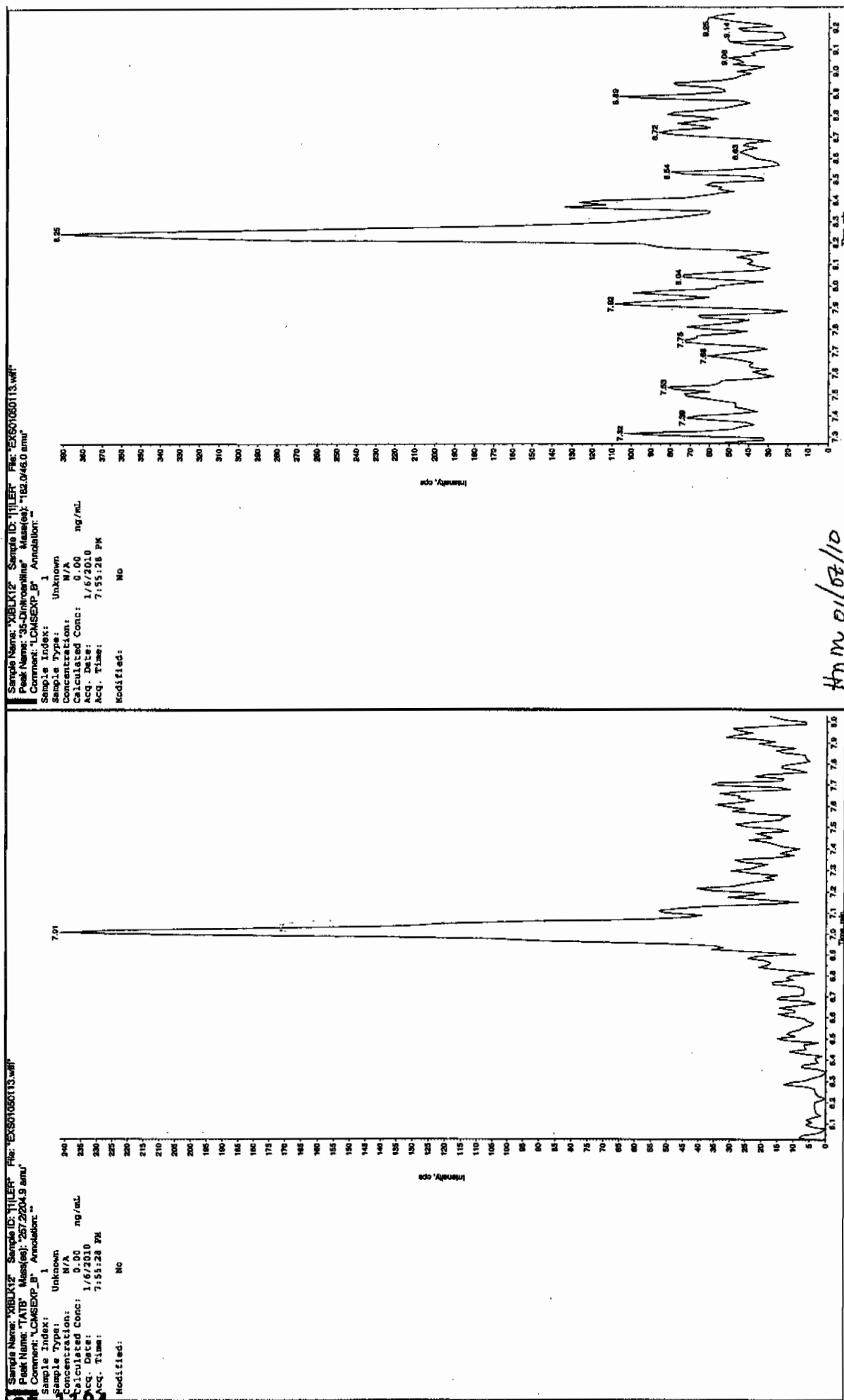
Analysis Date: 06-JAN-10 19:55

GEL Data File: EXS01050113.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

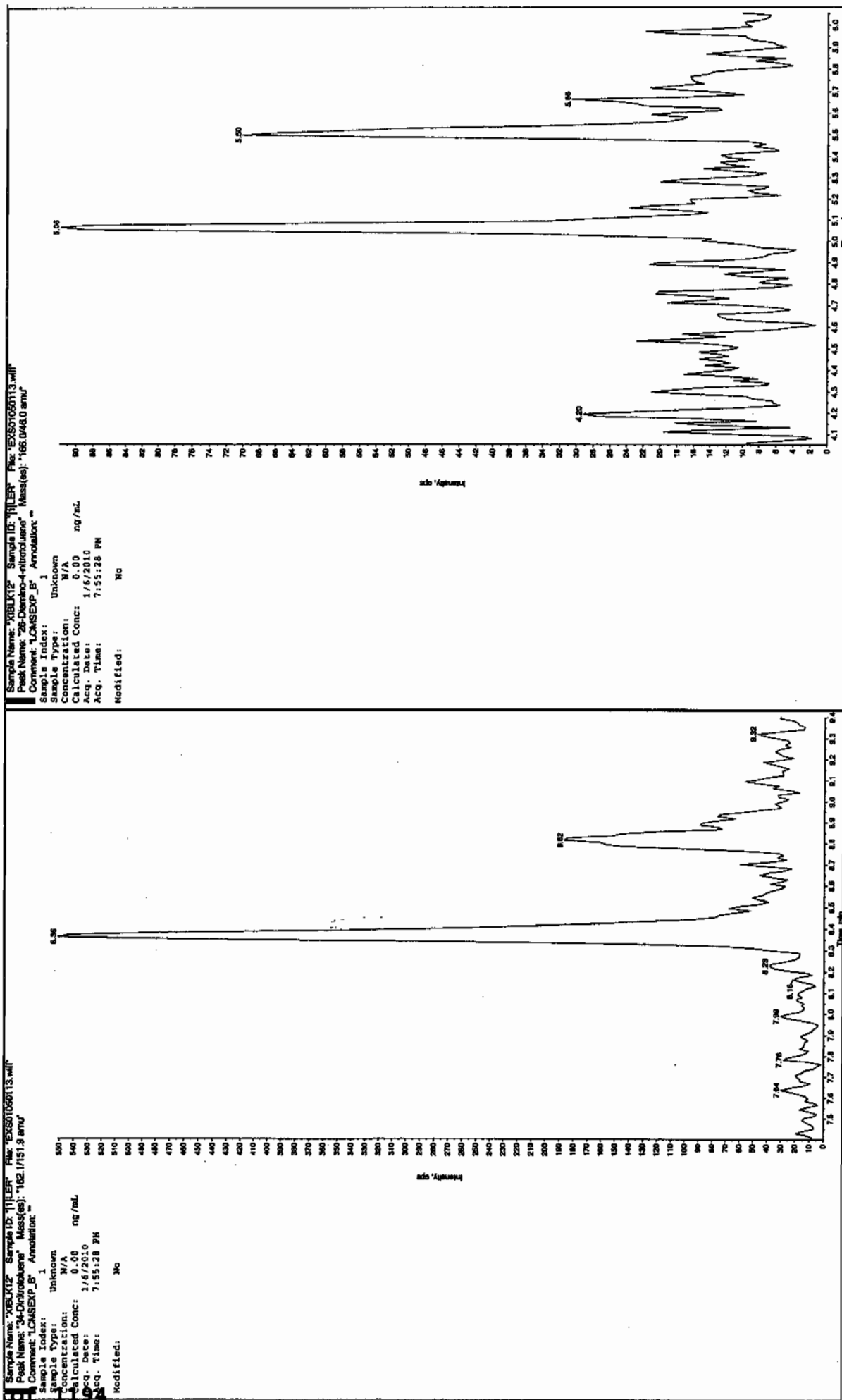
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0



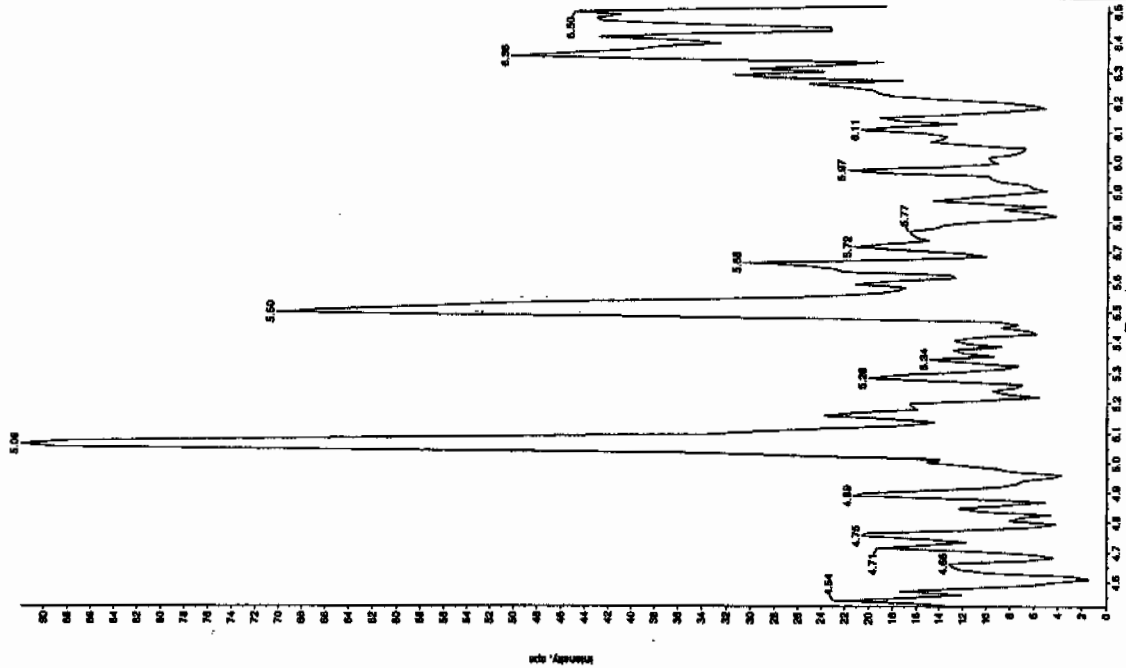
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Ann 01/02/10

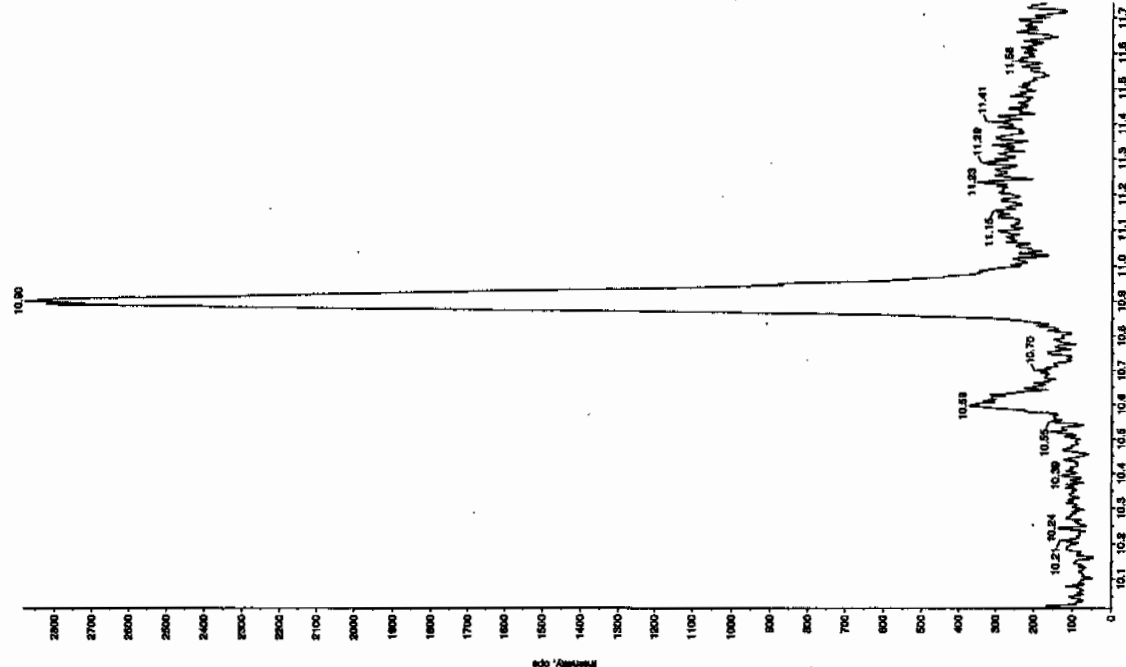
15/11/10



Sample Name: "XBLX12" Sample ID: "HLEP" File: "EX501050113.wif"
 Peak Name: "24-Diamino-6-nitrothiophene" Mass(es): "166.046 0 amu"
 Comment: "LCMSDEP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:55:28 PM
 Modified: No



Sample Name: "XBLX12" Sample ID: "HLEP" File: "EX501050113.wif"
 Peak Name: "bis(oxenyl) phosphate" Mass(es): "388.161 0 amu"
 Comment: "LCMSDEP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:55:28 PM
 Modified: No



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 06-JAN-10 20:26

GEL Data File: EXS01050115.wiff

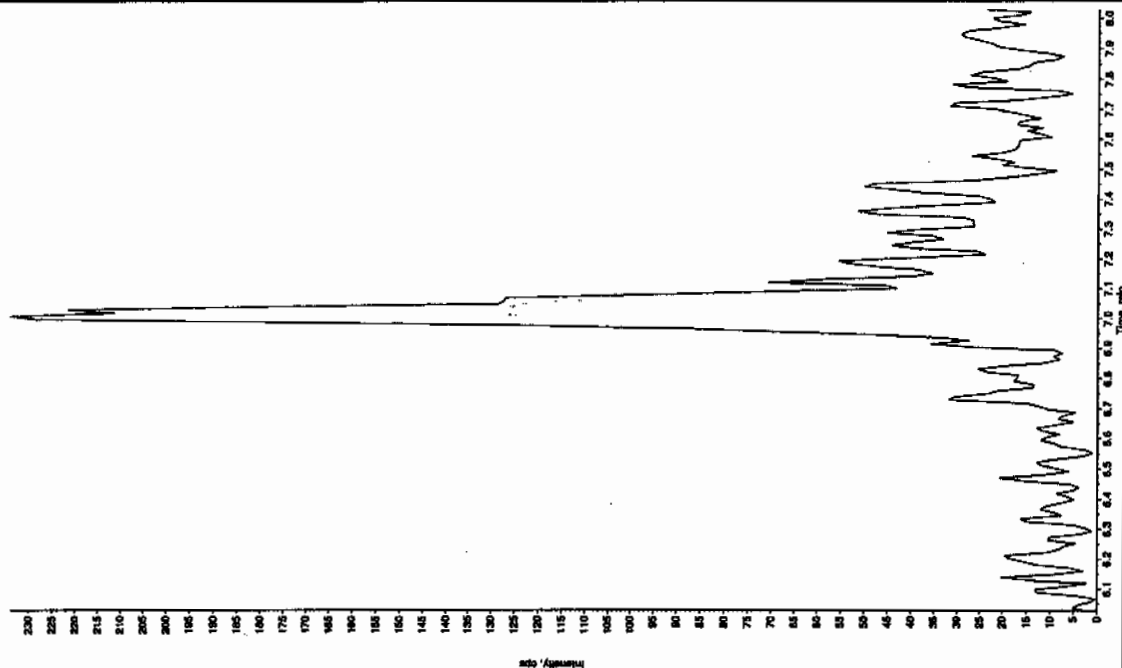
Instrument ID: LCMSMS

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

Comment: "LOMSEXP_B" Annotation: ""
Sample Index: 1

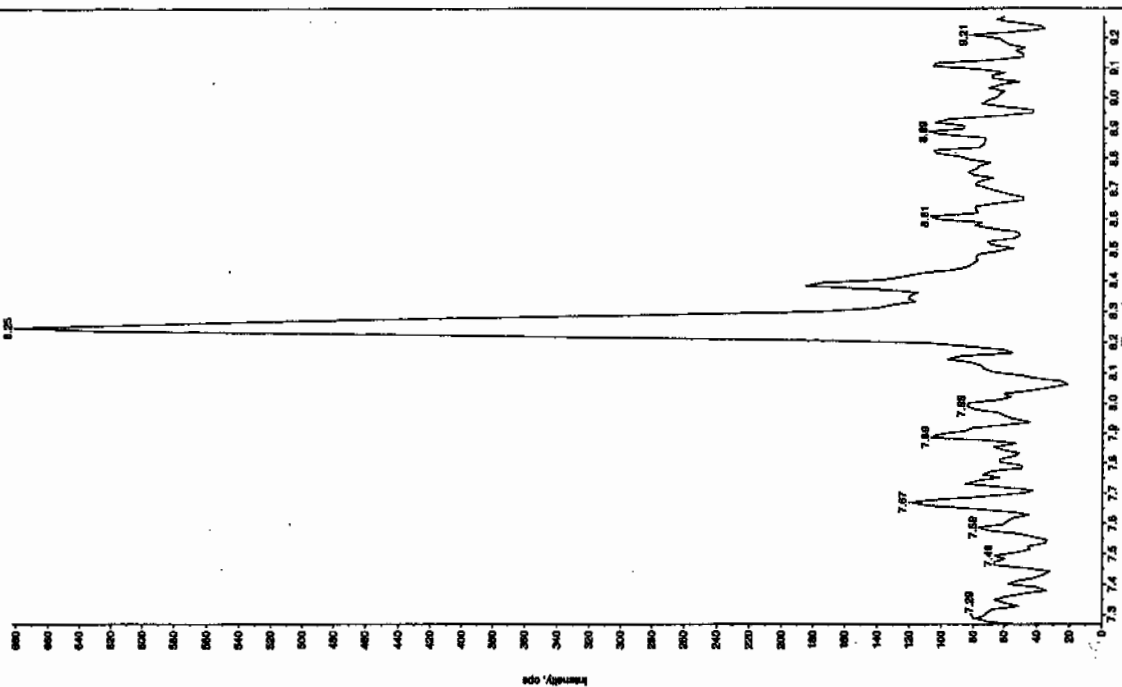
Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00
Acq. Date:	1/6/2010
Acq. Time:	8:26:53 PM
Modified:	No



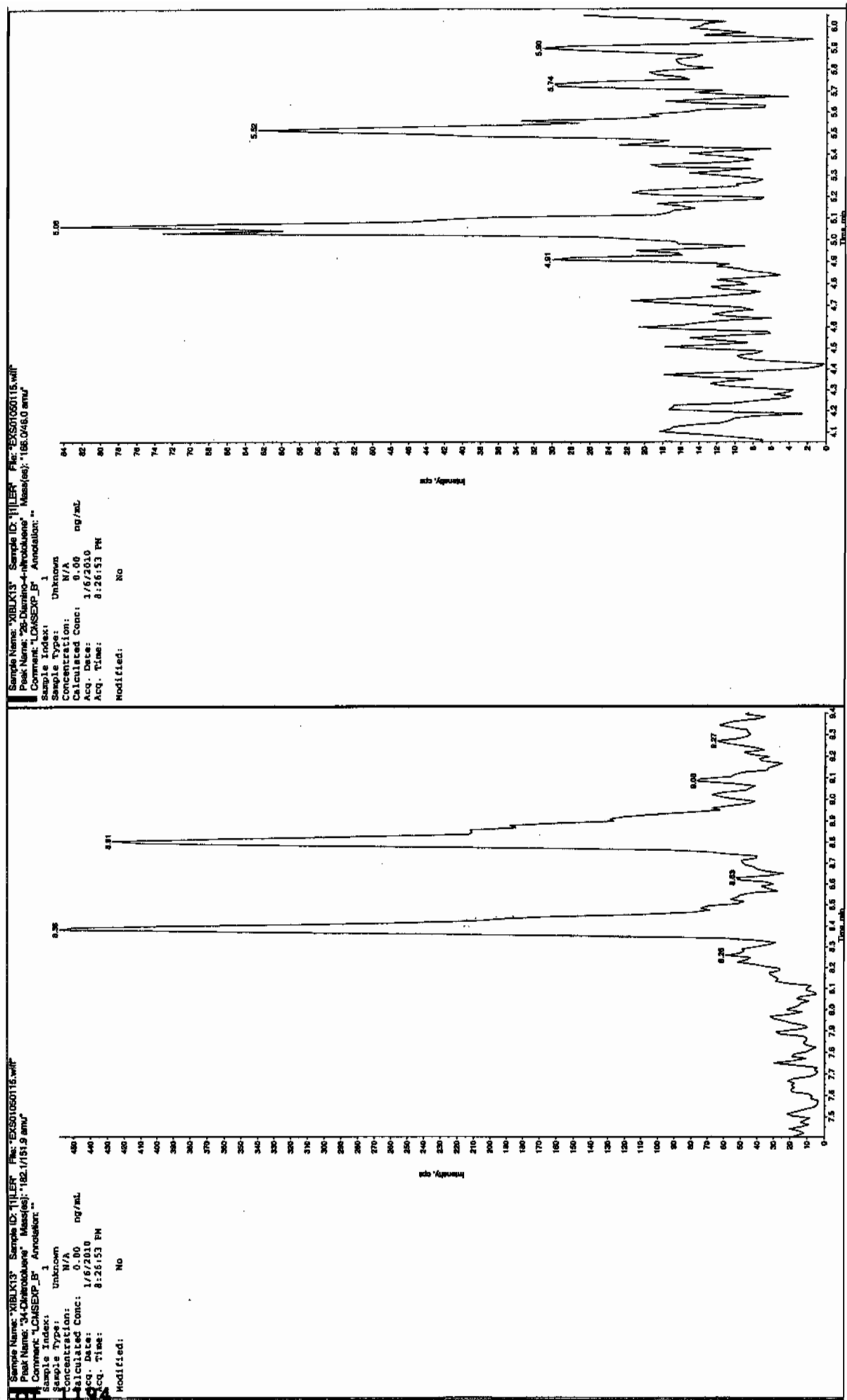
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

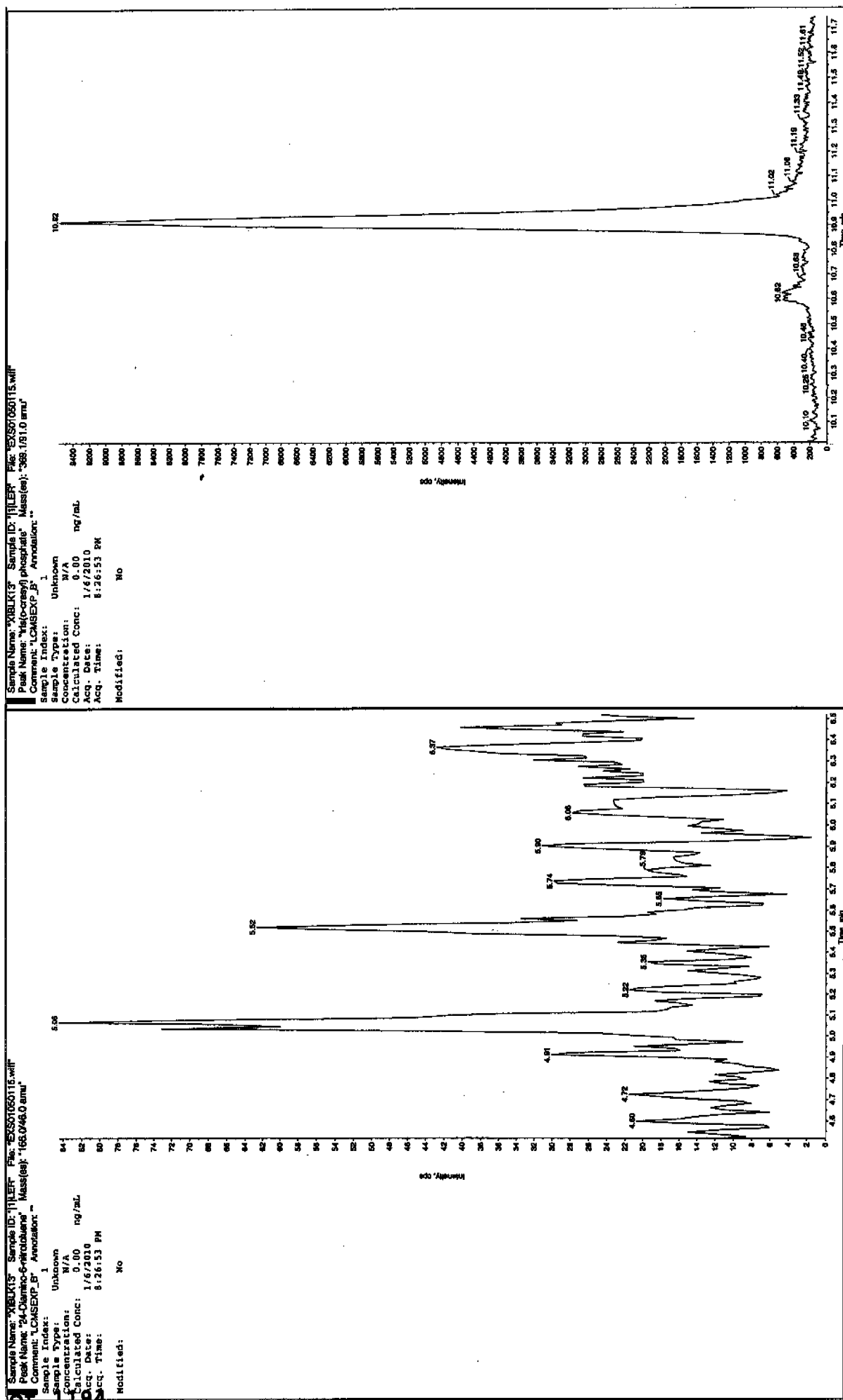
Comment: "LCMSEXP_B"
Sample Index: 1

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00
Cq. Date:	1/6/2010
Cq. Time:	8:26:53 PM
Modified:	No



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*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 06-JAN-10 22:16

GEL Data File: EXS01050122.wiff

Instrument ID: LCMSMS

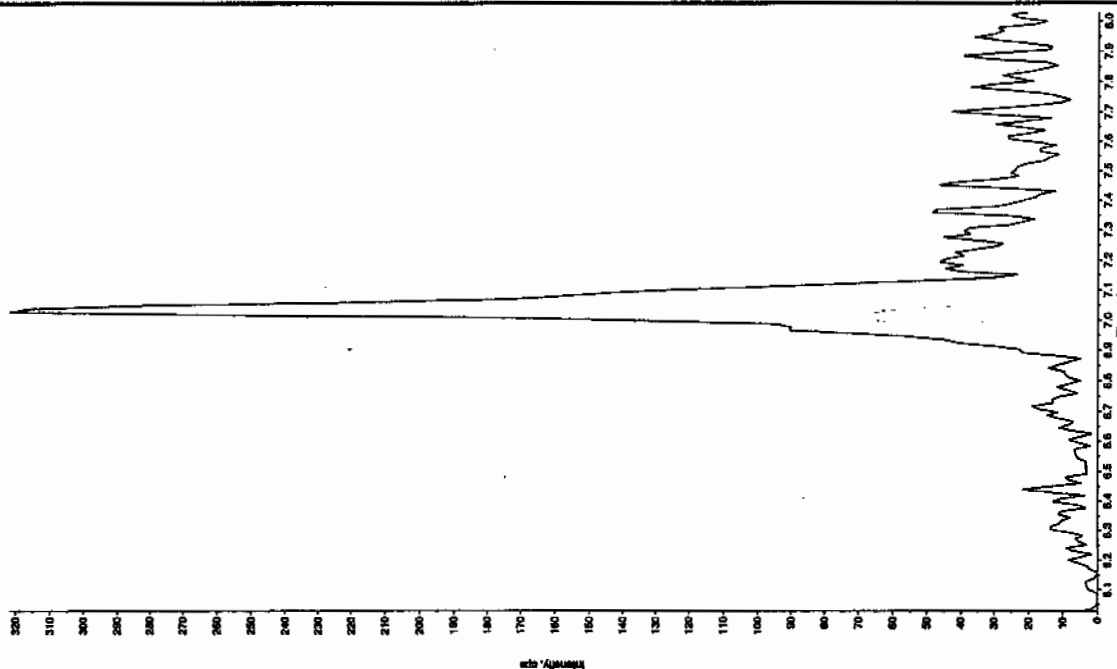
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/14/1
2011

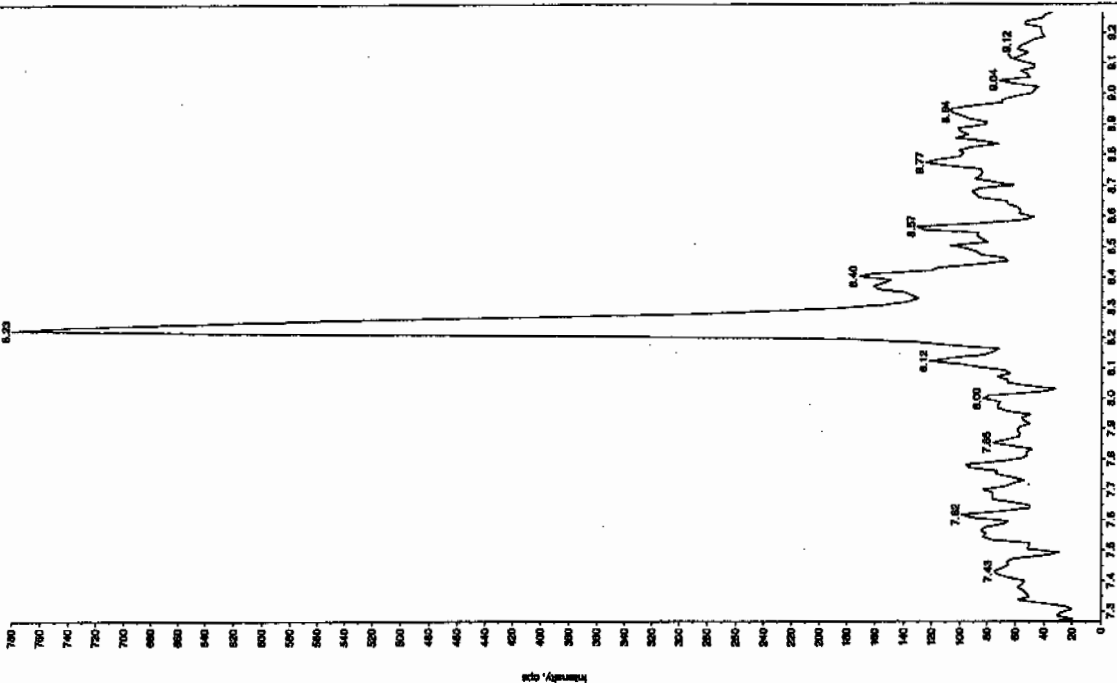
Sample Name: "XIBLK14" Sample ID: "TILLER" File: "EXS01050122.wif"
Peak Name: "TAIB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 10:16:45 PM
Acq. Time: 10:16:45 PM
Modified: No



Sample Name: "XIBLK14" Sample ID: "TILLER" File: "EXS01050122.wif"
Peak Name: "5S-Dinitrobenzidine" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 10:16:45 PM
Acq. Time: 10:16:45 PM
Modified: No



Anne 01/07/10

Sample Name: "XBLK14" Sample ID: "JILER" File: "EX01050122.wif"

Peak Name: "34-Oxetroluene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSDOP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

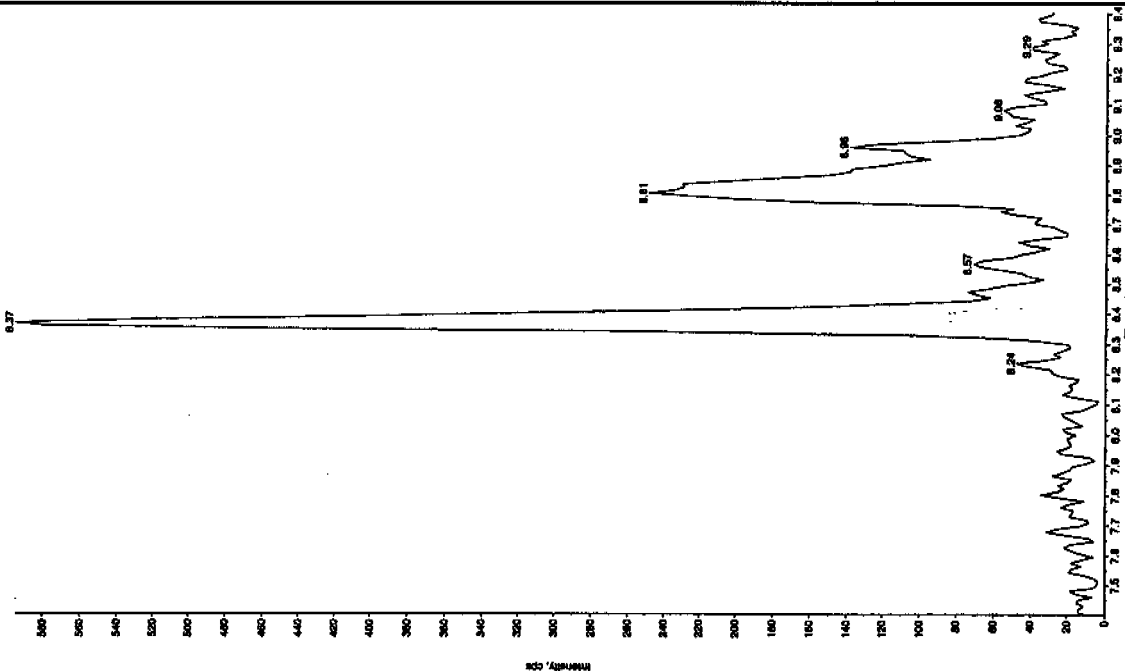
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 10:16:45 PM

Modified: No



Sample Name: "XBLK14" Sample ID: "JILER" File: "EX01050122.wif"

Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "186.0/165.0 amu"

Comment: "LCMSDOP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

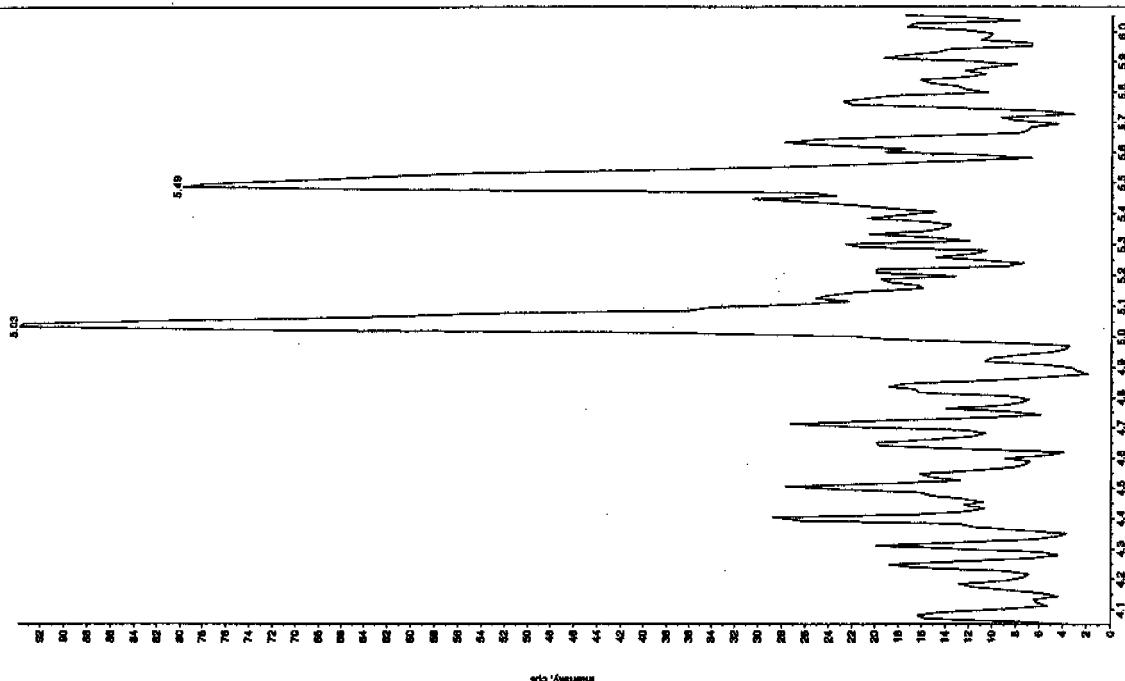
Concentration: N/A

Calculated Conc: 0.00 ng/mL

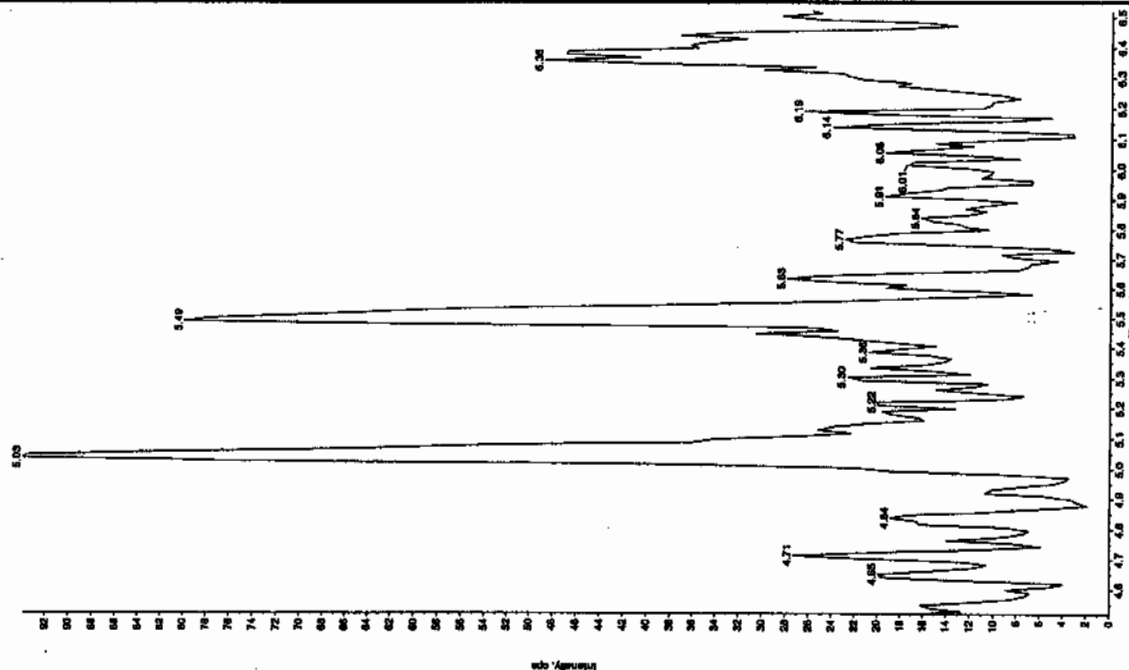
Acq. Date: 1/6/2010

Acq. Time: 10:16:45 PM

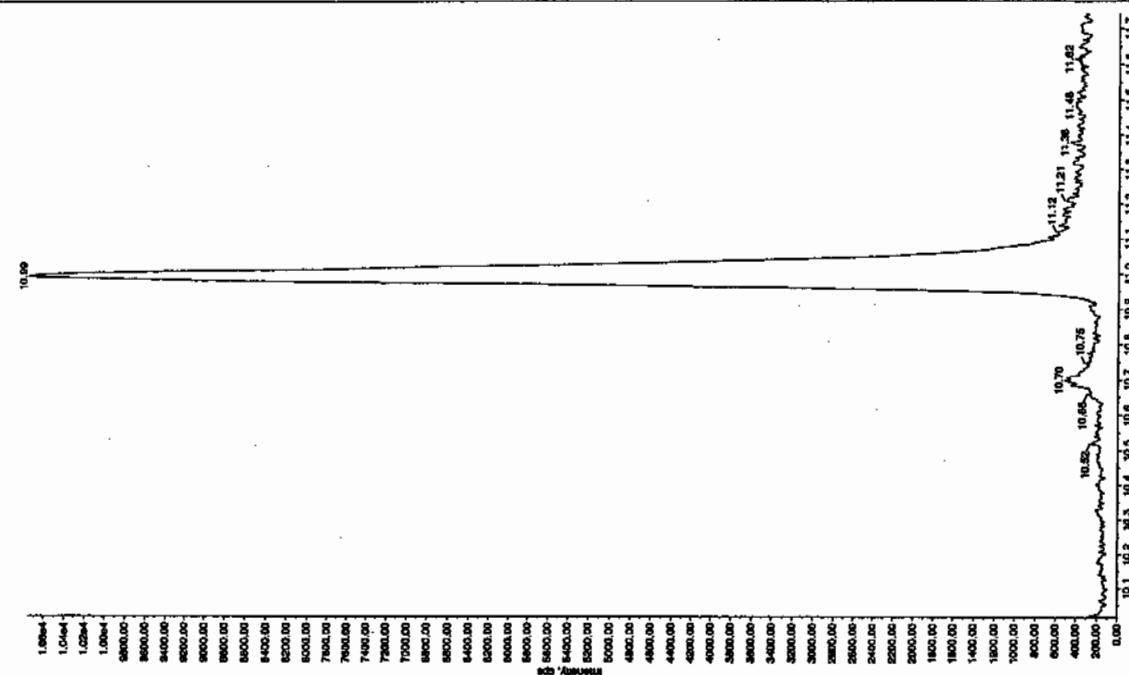
Modified: No



Sample Name: "XBLK14" Sample ID: "11LEF" File: "EX301050122.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 10:16:45 PM
 Modified: No



Sample Name: "XBLK14" Sample ID: "11LEF" File: "EX301050122.wif"
 Peak Name: "Nitro-cresyl phosphate" Mass(es): "355.151.0 amu"
 Comment: "LCMS-EXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 10:16:45 PM
 Modified: No



Nairb.ref

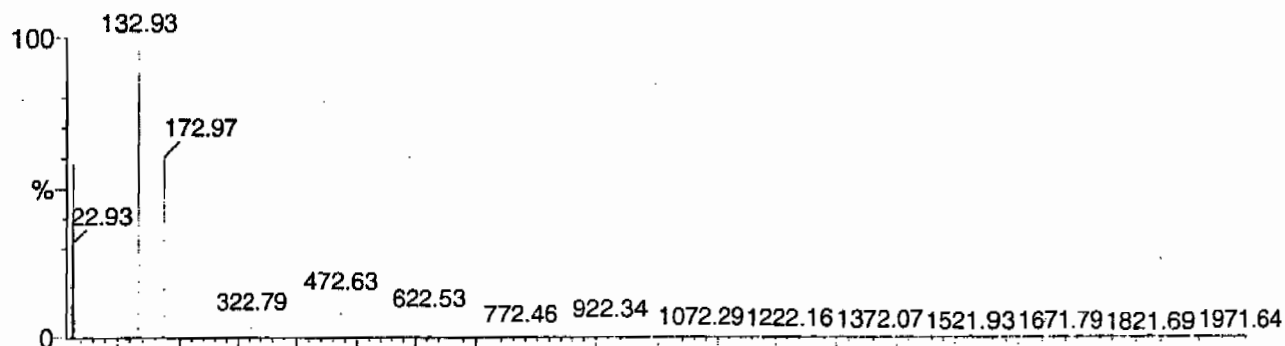
;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H₂O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

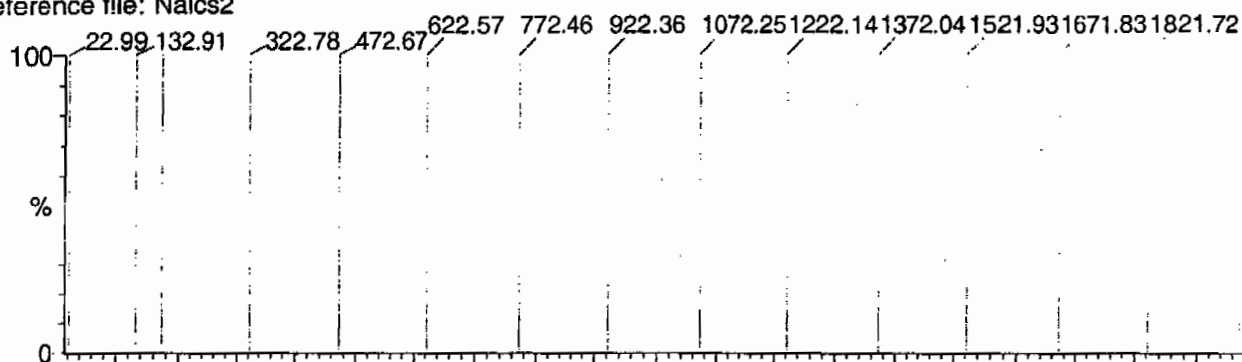
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

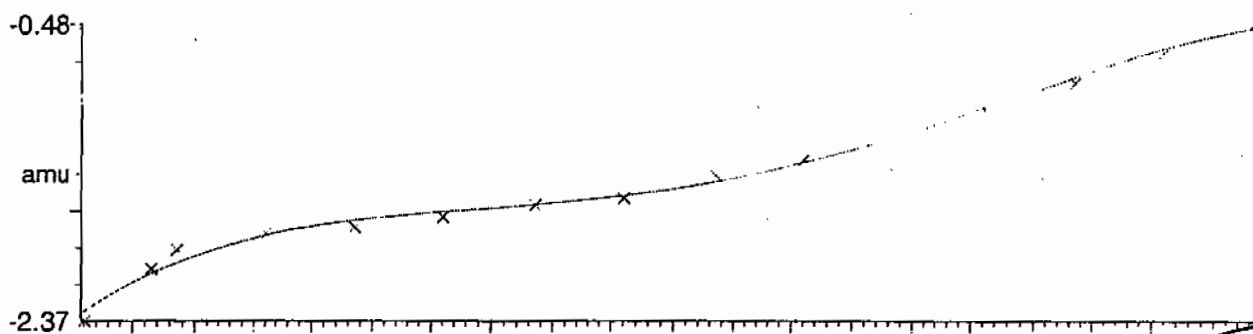
15 matches of 15 tested references



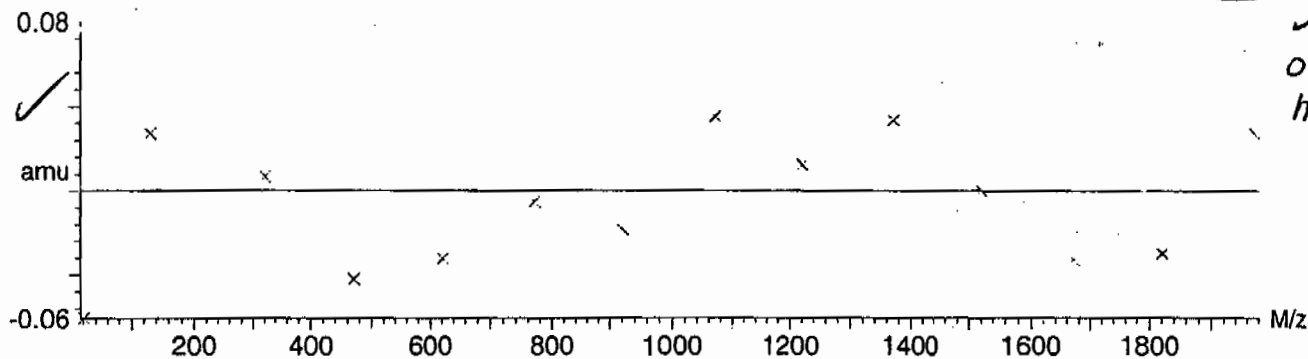
Reference file: Naics2



Mass difference (Raw - Ref mass)



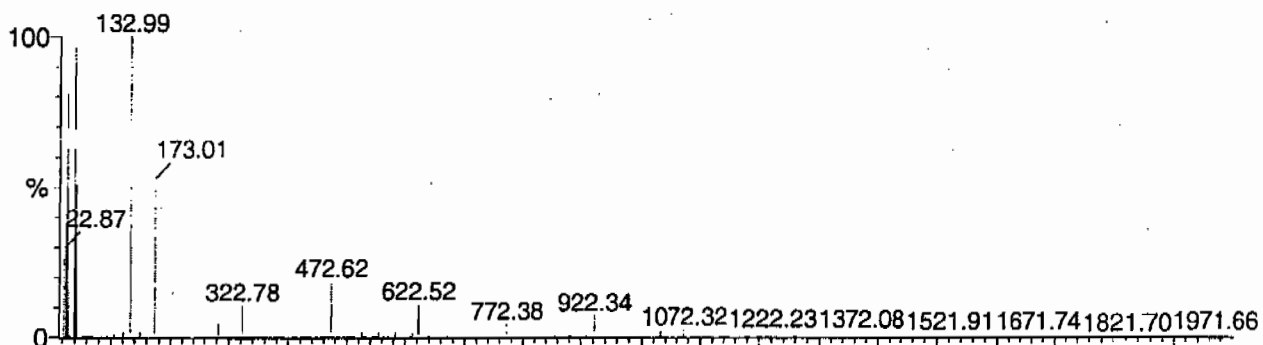
Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$ 

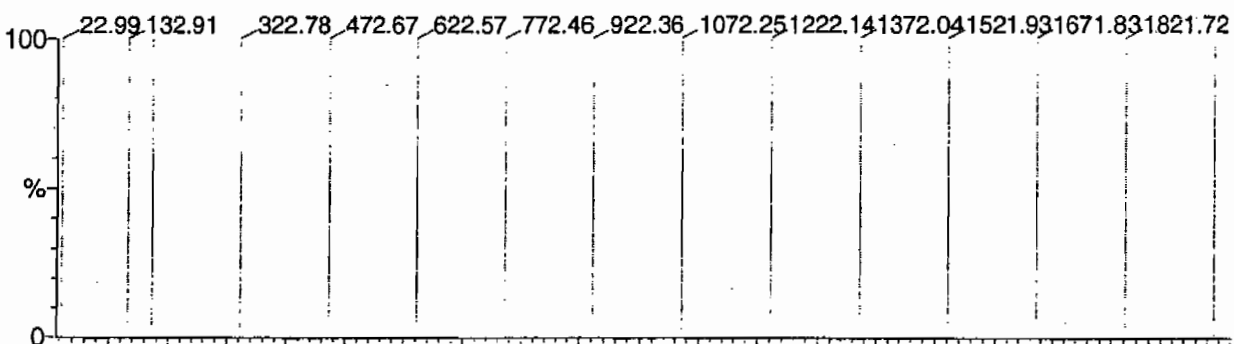
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

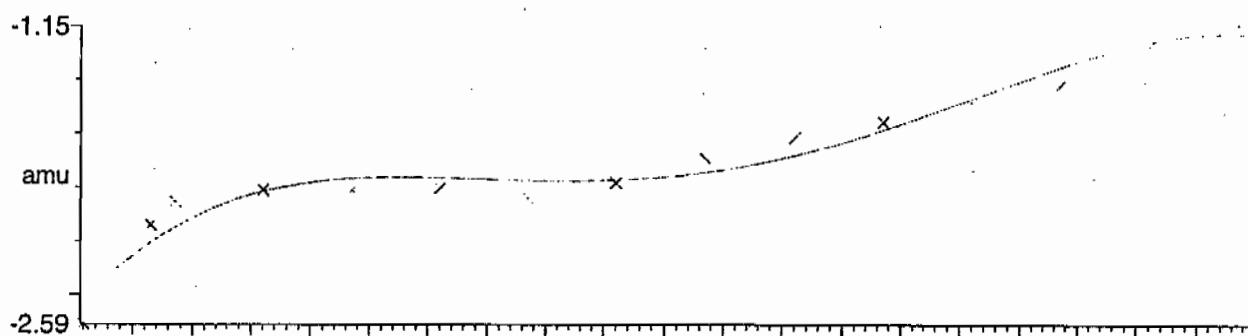
15 matches of 15 tested references



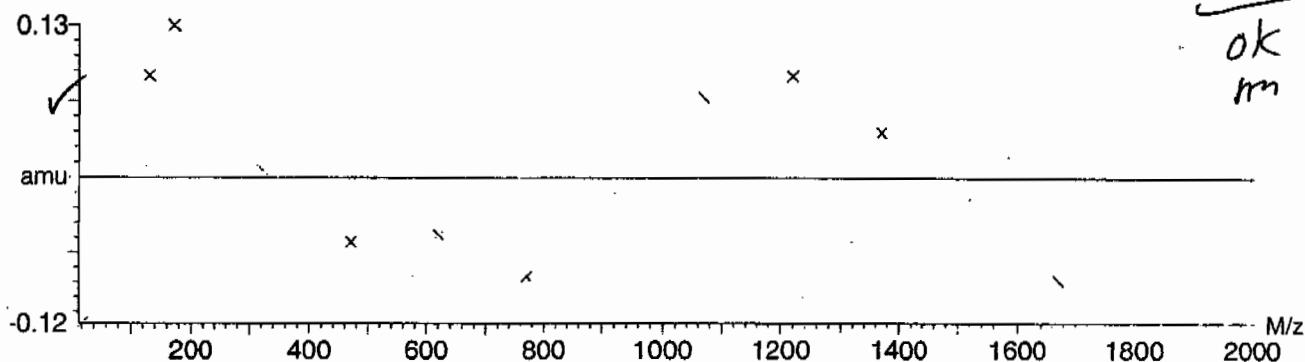
Reference file: Naics2



Mass difference (Raw - Ref mass)



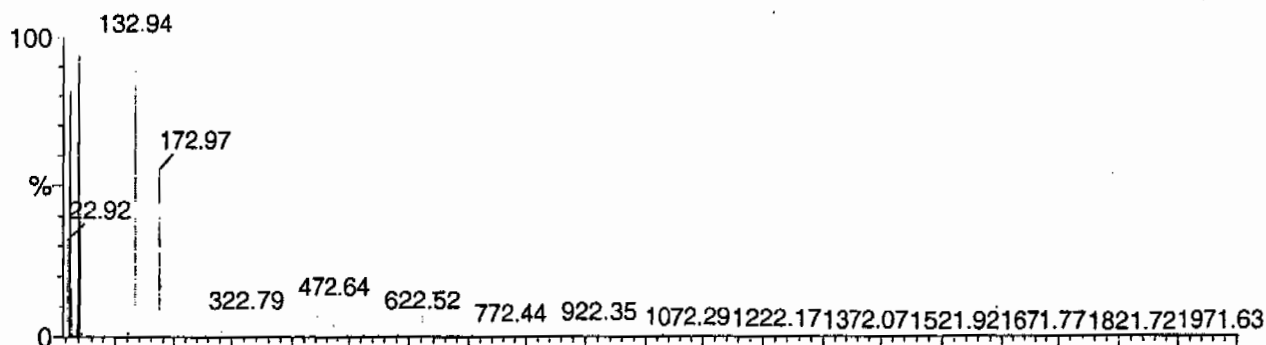
Residuals

Mean residual = $-5.432715e-9 \pm 0.069858$ ok
rm

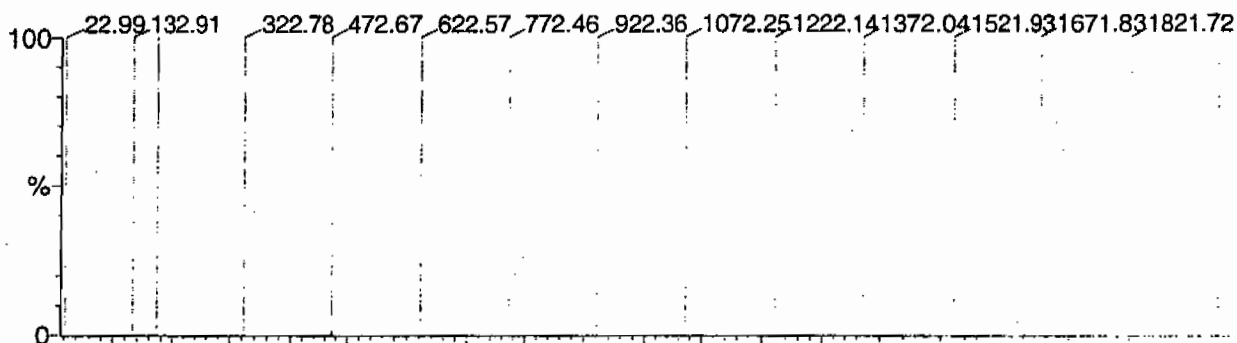
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

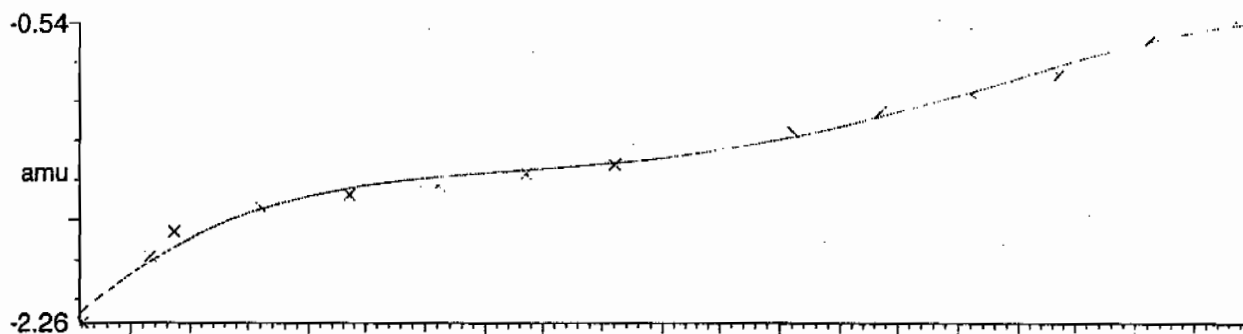
15 matches of 15 tested references



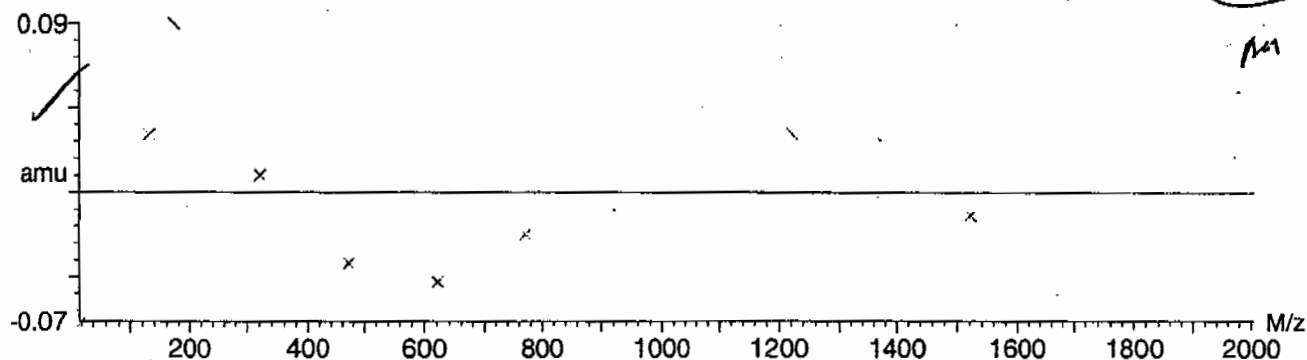
Reference file: Naics2



Mass difference (Raw - Ref mass)



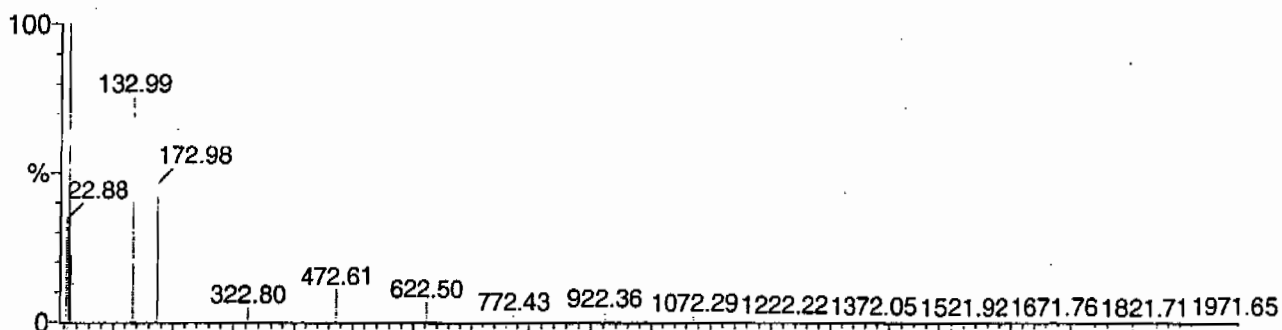
Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$ 

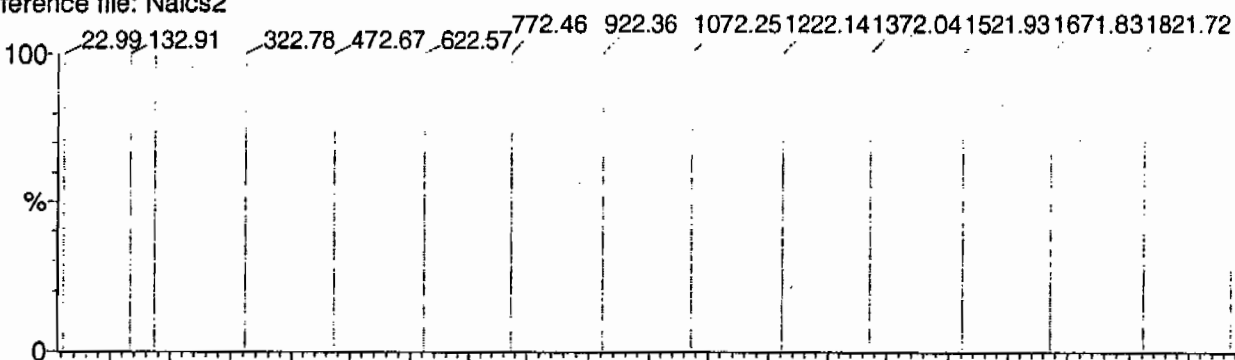
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

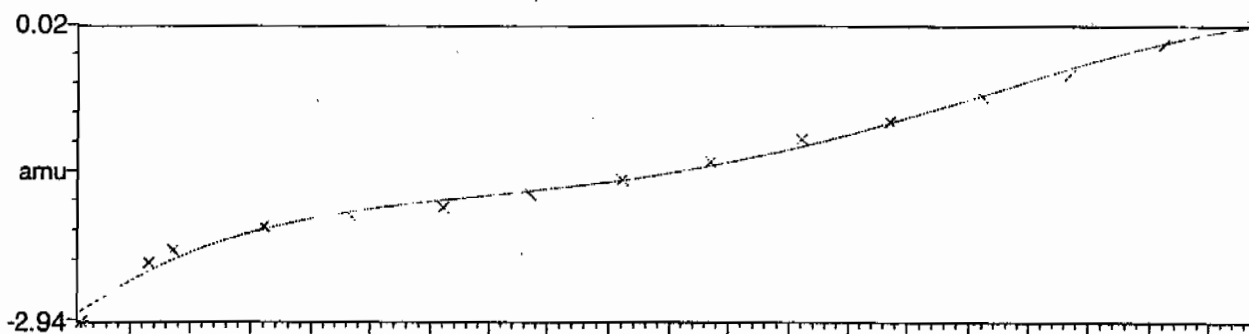
15 matches of 15 tested references



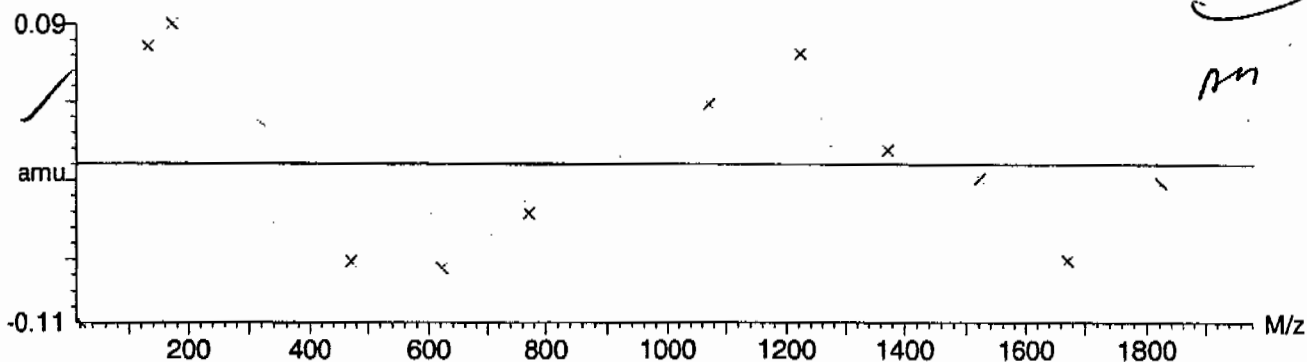
Reference file: Naics2



Mass difference (Raw - Ref mass)



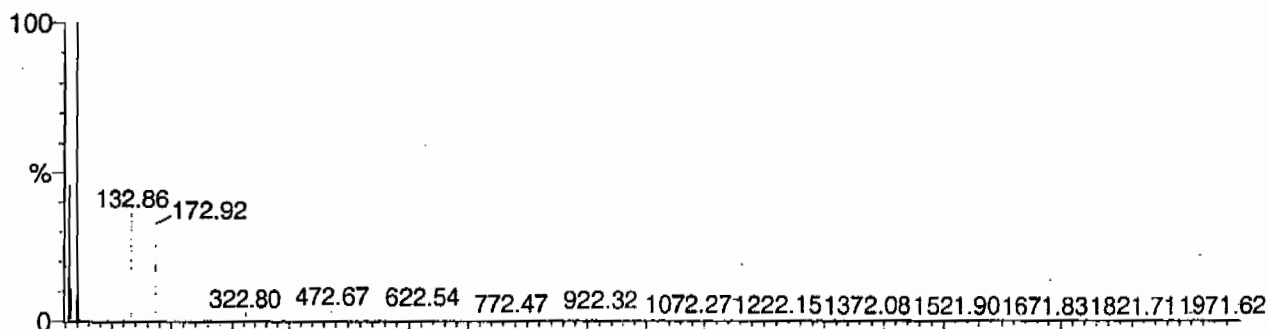
Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$ 

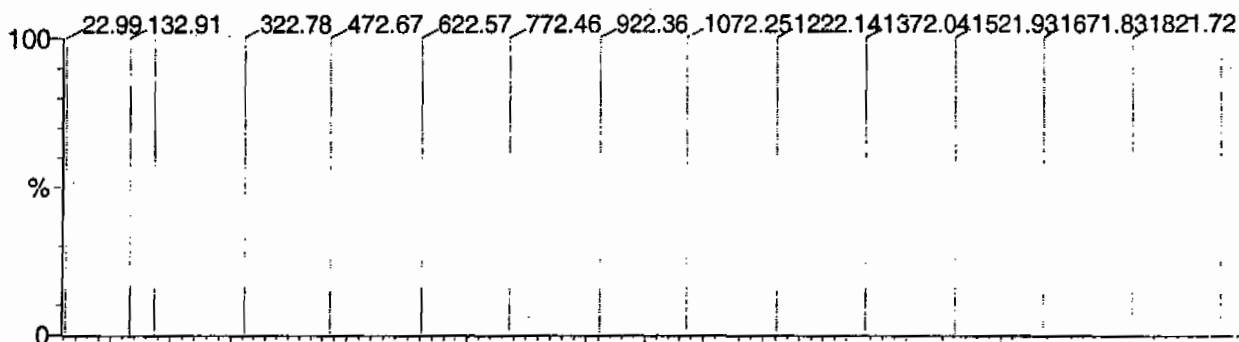
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

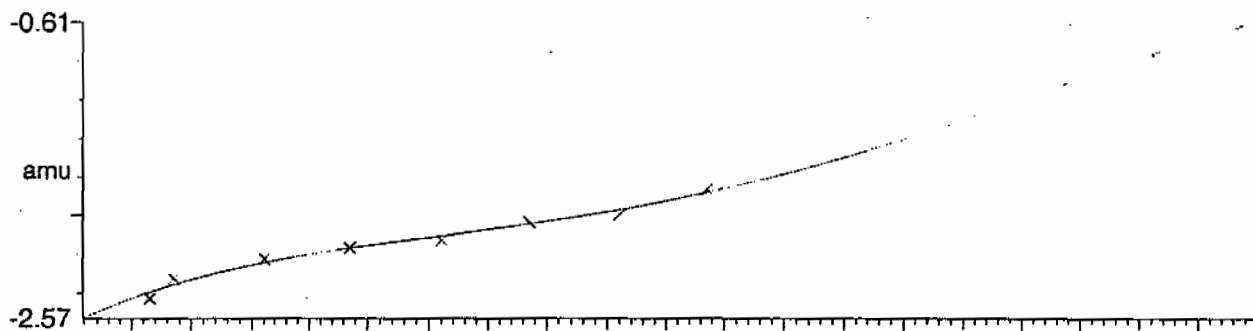
14 matches of 15 tested references



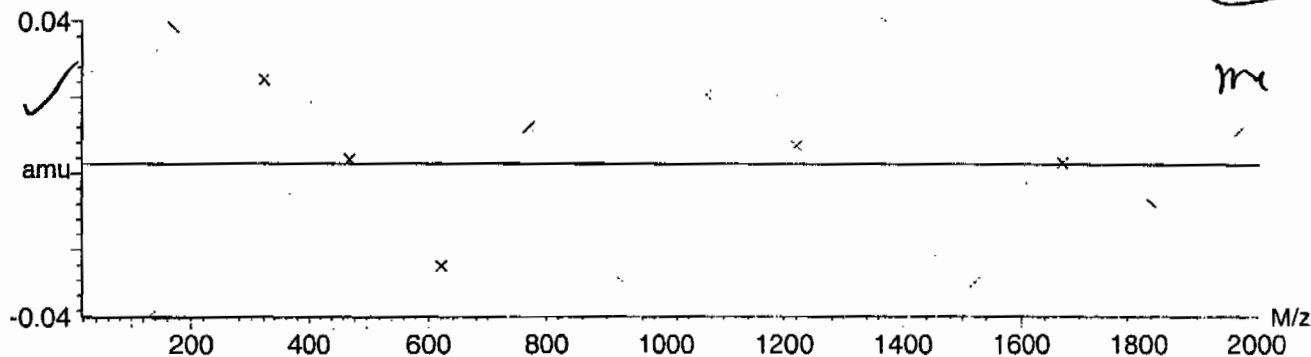
Reference file: Naics2



Mass difference (Raw - Ref mass)



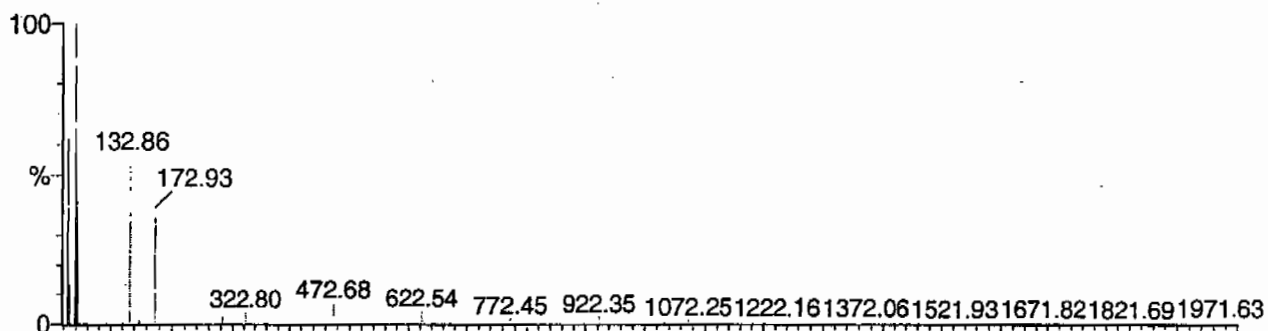
Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$ 

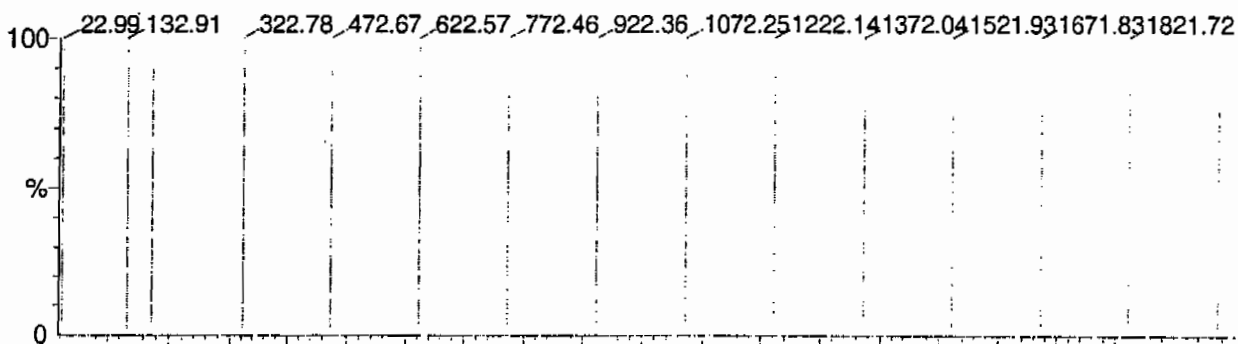
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

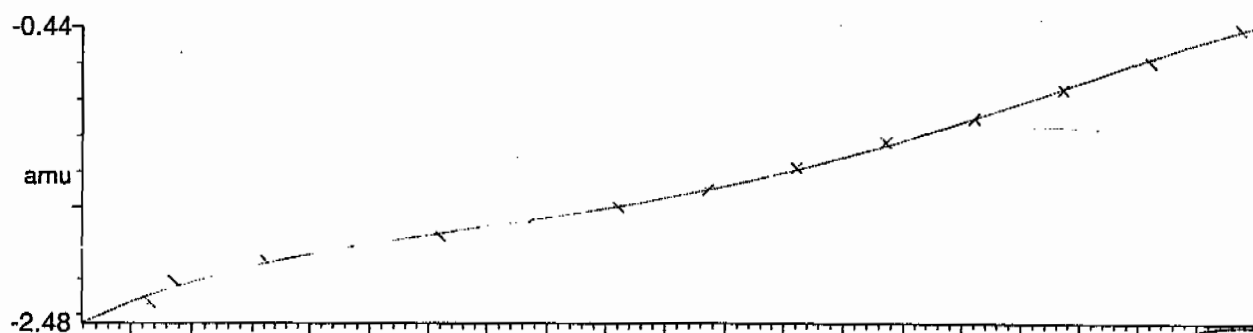
14 matches of 15 tested references



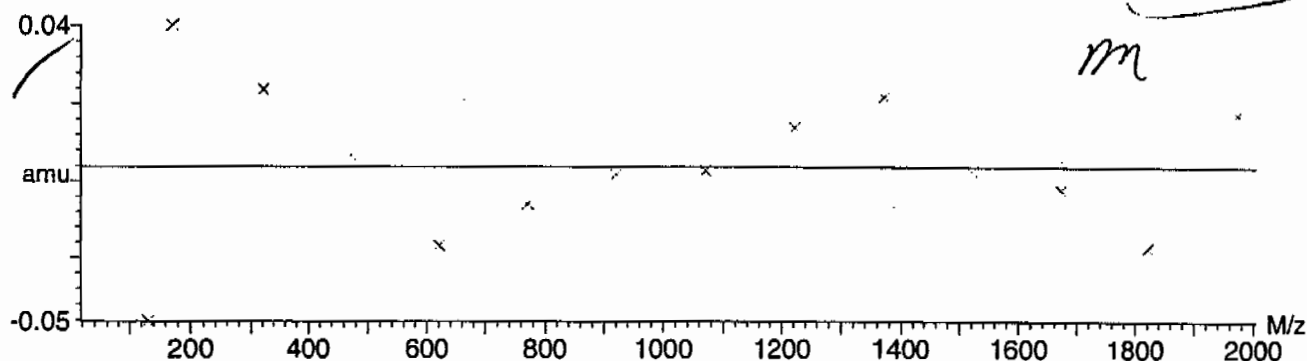
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$ 

Parameter File: C:\MASSLYNX\NEW_EXP.PRO\ACQUDB\explosives04.ipr

Printed : Fri Jan 08 17:13:08 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1036Lab Code: GELHPLC 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) #
			2929.528	11.985	16886.317	17.3
Upper Limit			3808.3864	12.485	21952.2121	17.8
Lower Limit			2050.6696	11.485	11820.4219	16.8
RE12-10-7296	10-jan-10 14:59	EXP0108094a	2730.64	11.972	16987.4	17.313
MB for batch 936888	11-jan-10 12:08	EXP0108137a	3741.85	11.973	19765.1	17.312
LCS for batch 936888	11-jan-10 12:38	EXP0108138a	3282.05	11.973	19434.1	17.31
RE12-10-7288	11-jan-10 13:07	EXP0108139a	2845.94	11.973	17464.2	17.31
RE12-10-7288(243490001MS)	11-jan-10 13:37	EXP0108140a	3318.82	11.996	18156.4	17.305
RE12-10-7288(243490001MSD)	11-jan-10 14:06	EXP0108141a	3147.69	11.999	20009.8	17.31
RE12-10-7290	11-jan-10 14:36	EXP0108142a	2874.36	11.996	18374.4	17.325
RE12-10-7289	11-jan-10 15:05	EXP0108143a	3295.93	11.999	17402.2	17.311
RE12-10-7291	11-jan-10 15:35	EXP0108144a	2982.55	11.973	18046.4	17.312
RE12-10-7292	11-jan-10 16:04	EXP0108145a	3072.37	12.001	17066.9	17.331
RE12-10-7293	11-jan-10 16:34	EXP0108146a	2890.78	11.996	17126.3	17.323

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: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108139a

Date Analyzed: 11-JAN-10 13:07

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
		<u>Sample Amount</u>		Factor

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 29 of 111

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108139a

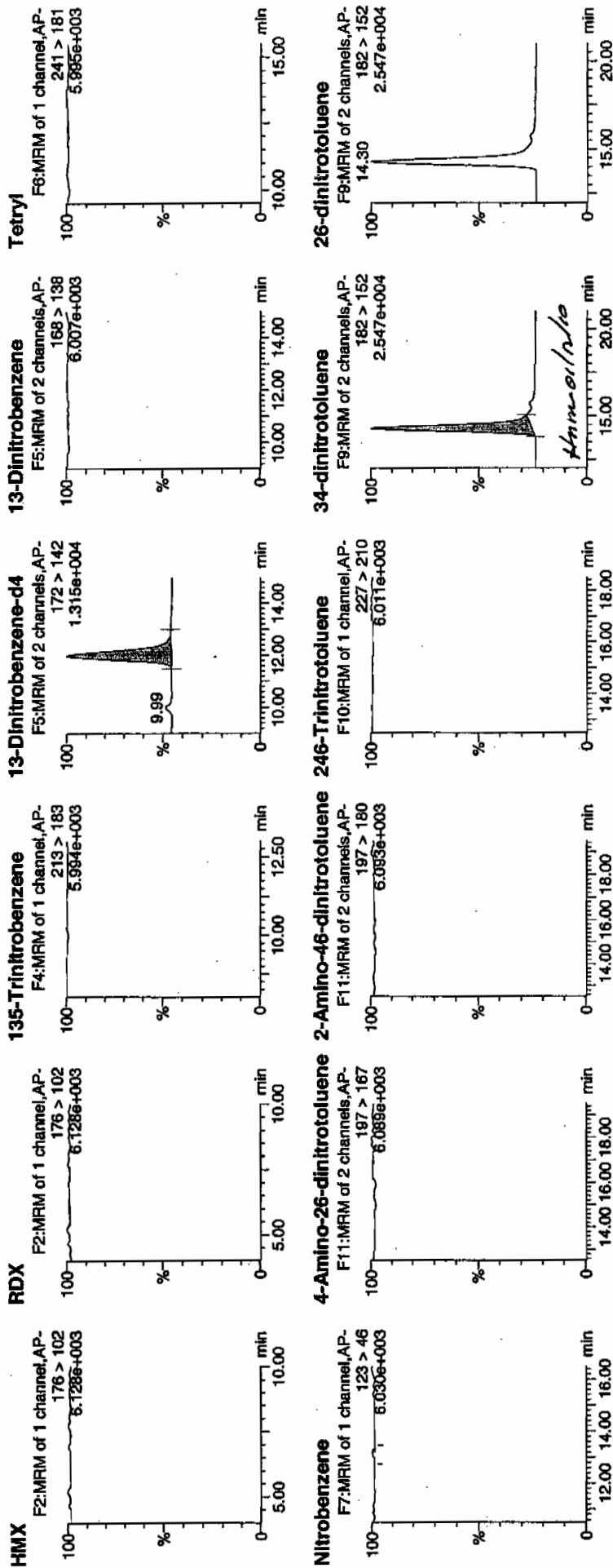
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Time: 13:07:55

ID: 243490001

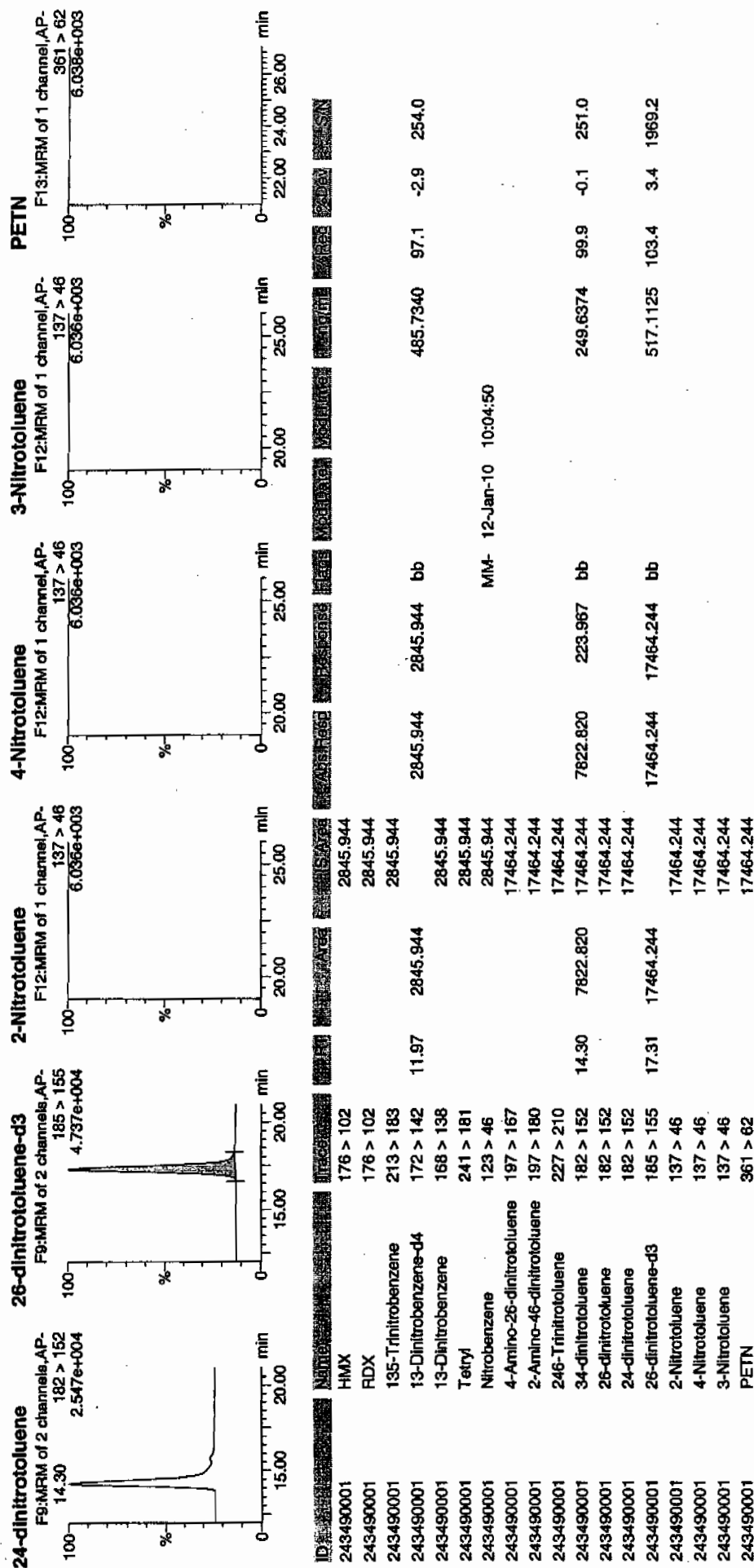
Vial: 3:1,C

Handwritten: 1/12/10
121
ANU/93690/8000/21



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490001

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050100.wiff

Date Analyzed: 06-JAN-10 16:31

Units: ug/kg

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

*Concentration =

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

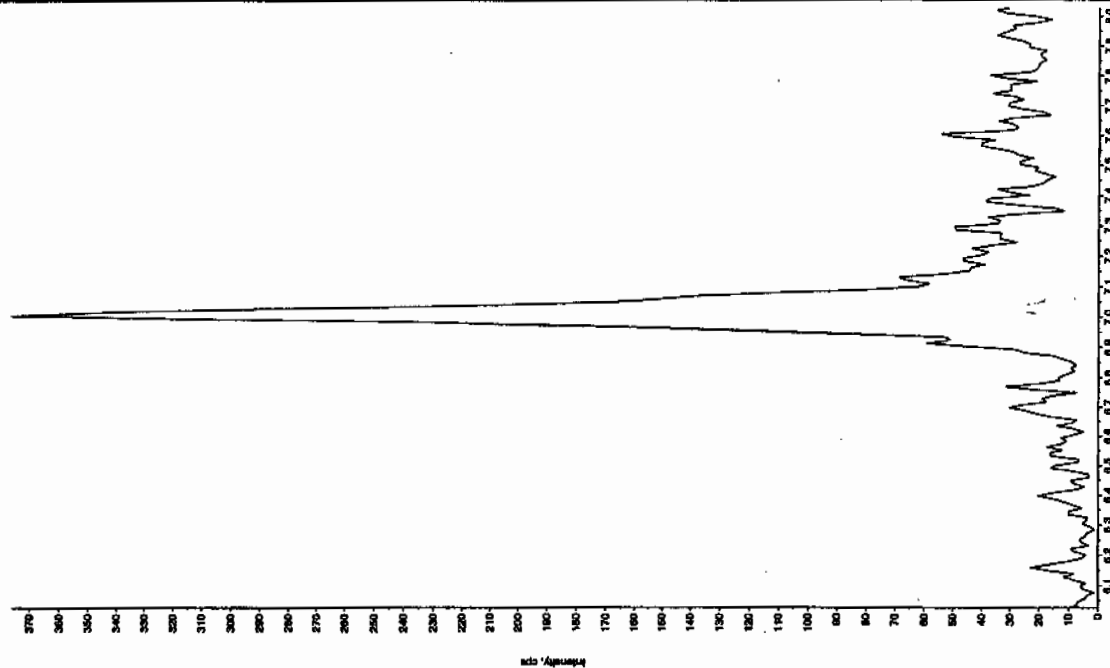
01/11/11
2008

Sample Name: "243490001" Sample ID: "93689021" File: "EX357050100.wif"

Peak Name: "TAIB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 4:31:24 PM
Modified: No

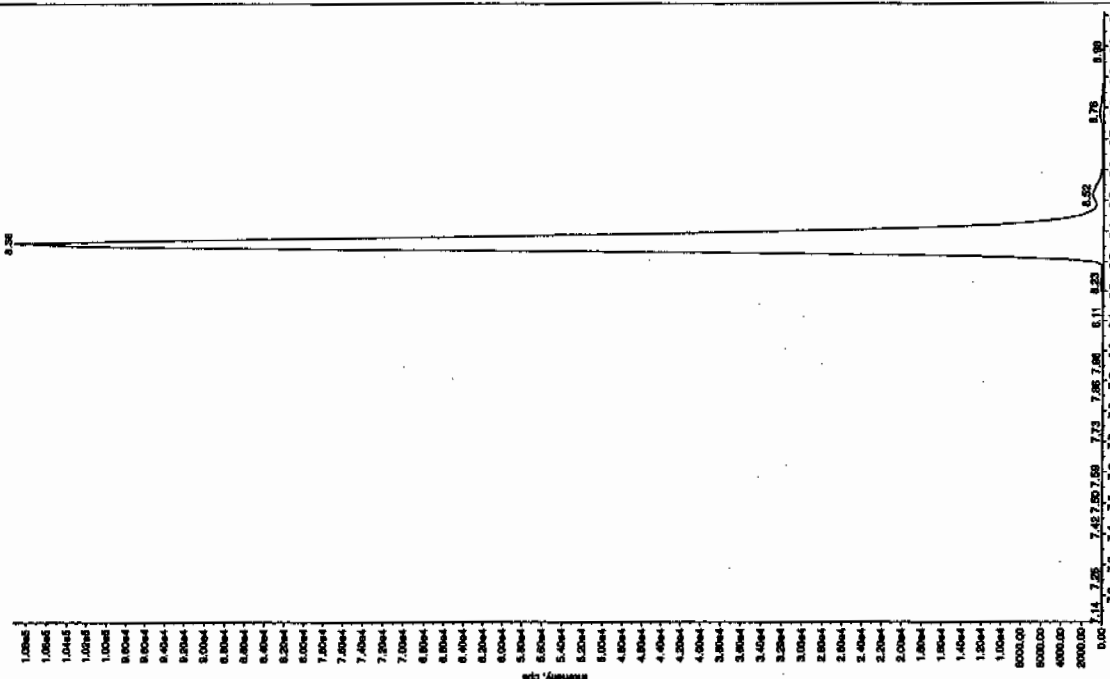


Sample Name: "243490001" Sample ID: "93689021" File: "EX357050100.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: ""

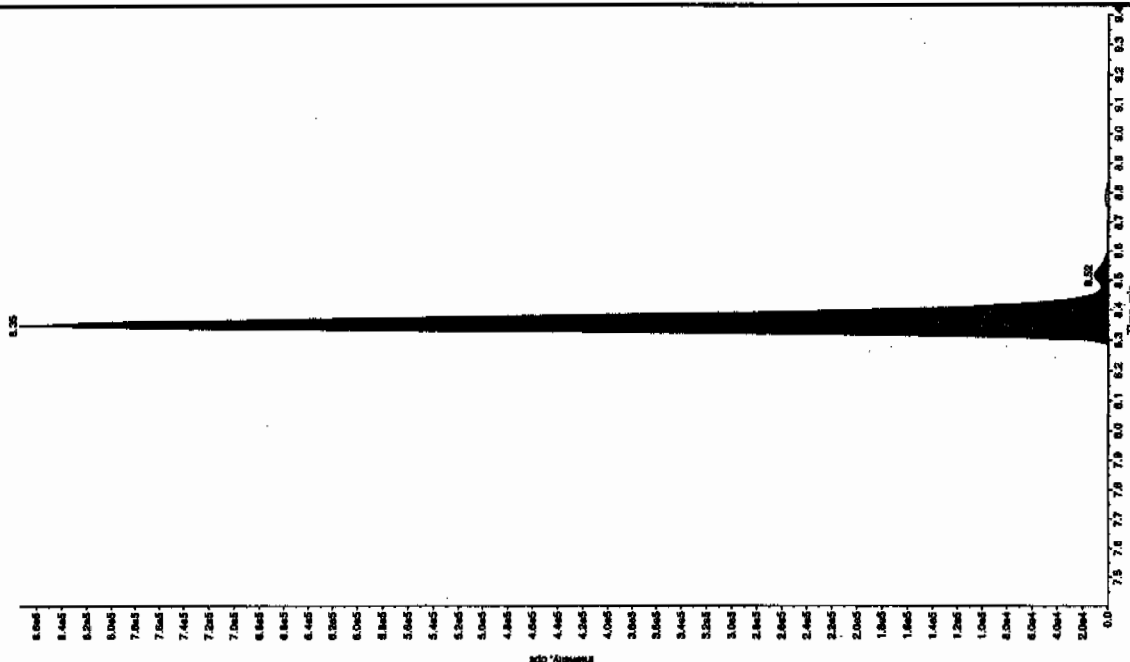
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 4:31:24 PM
Modified: Yes



Home 01/07/10

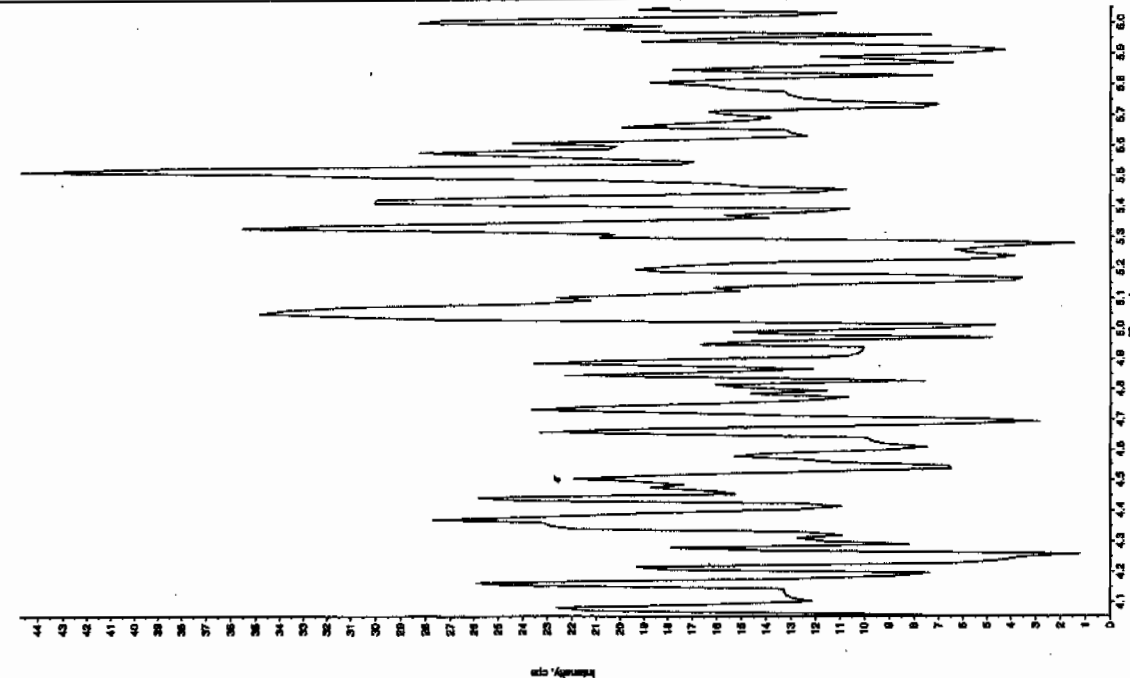
Sample Name: "243480001" Sample ID: "50689021ER" File: "EX501060100.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 1/6/2010
 Acq. Time: 4:31:24 PM
 Modified: No
 Proc. Algorithm: Intel110uan - 10A
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
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 Retention Time: 8.35 min
 Area: 3.22E+006 counts
 Height: 873774.414 cps
 Start Time: 8.27 min
 End Time: 8.69 min



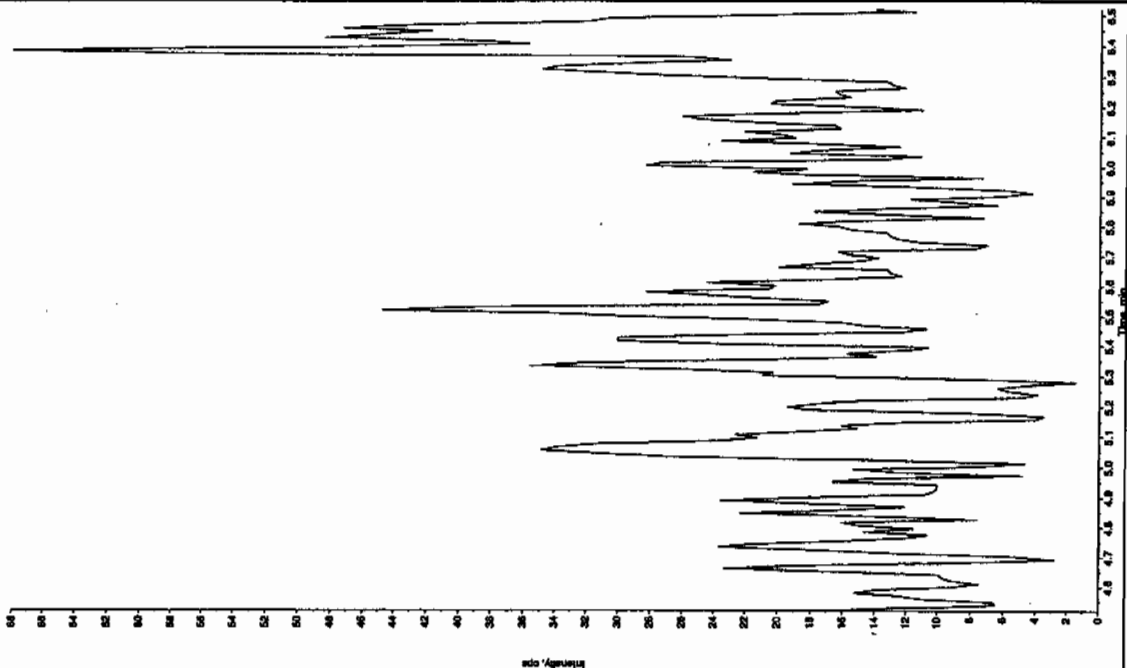
Sample Name: "243480001" Sample ID: "50689021ER" File: "EX501060100.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0466.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
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 Concentration: N/A ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 1/6/2010
 Acq. Time: 4:31:24 PM
 Modified: No



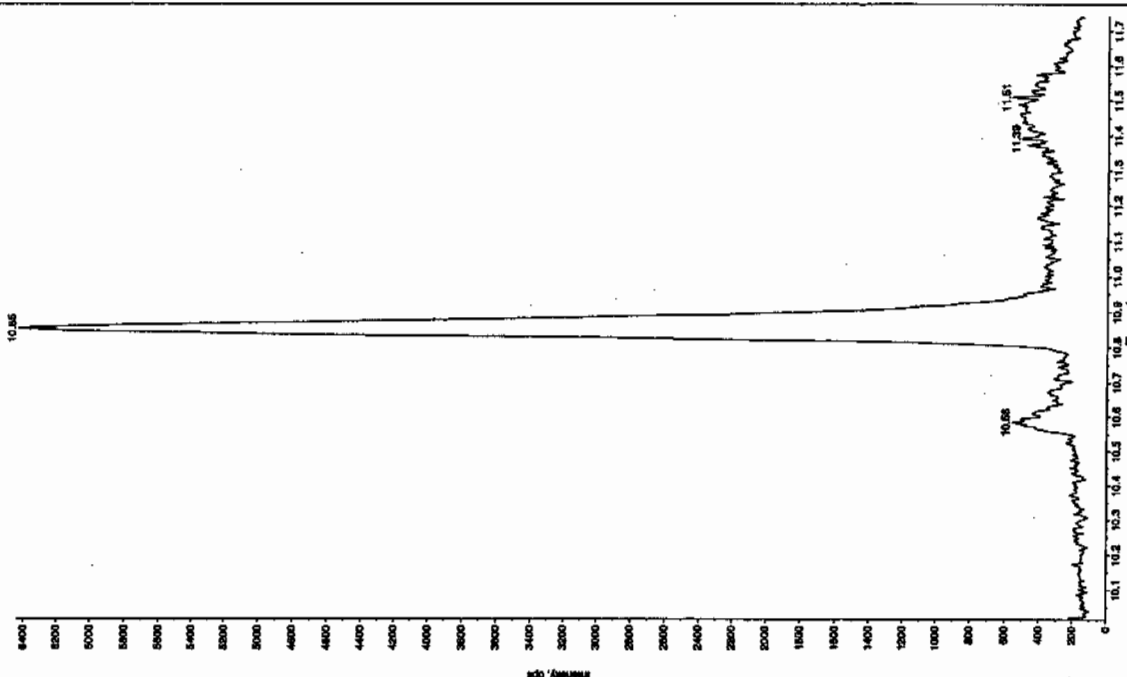
Sample Name: "243490001" Sample ID: "9386024LEF" File: "EXS01060100.wif"
 Peak Name: "24-Diamino-6-Deoxythymine" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ug/mL
 Calculated Conc: 0.00 ug/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:31:24 PM
 Modified: No



Sample Name: "243490001" Sample ID: "9386024LEF" File: "EXS01060100.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:31:24 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7290

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490002

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108142a

Date Analyzed: 11-JAN-10 14:36

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

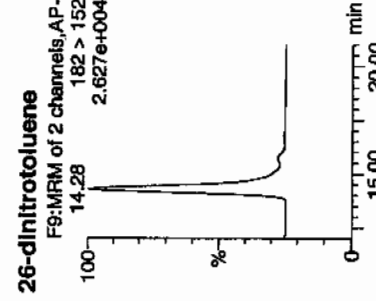
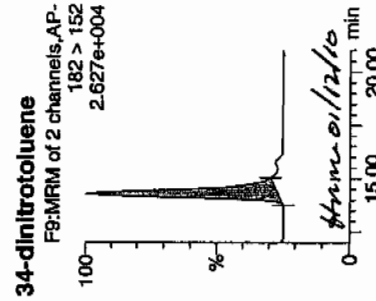
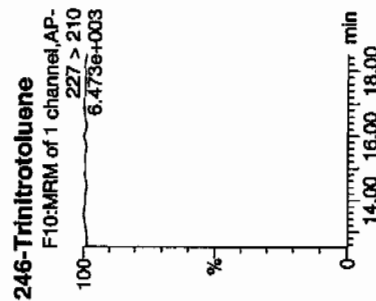
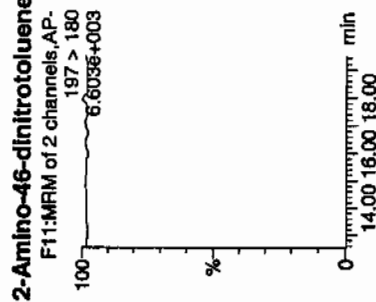
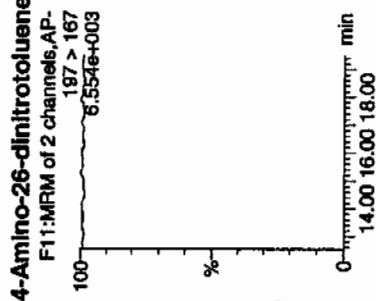
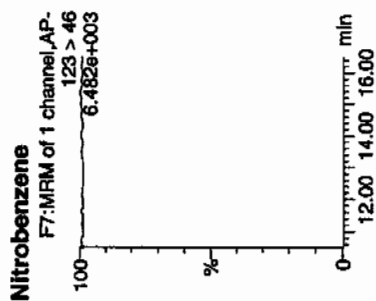
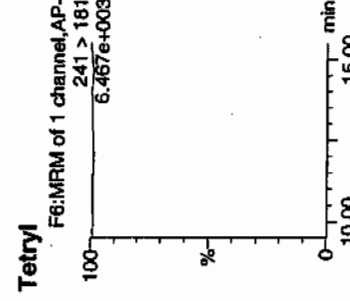
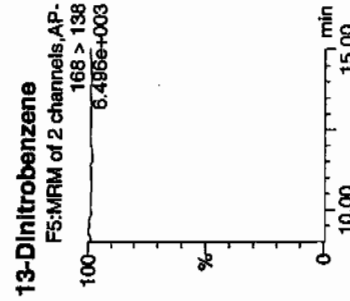
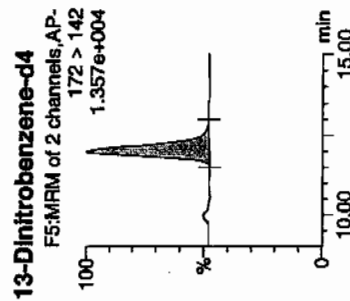
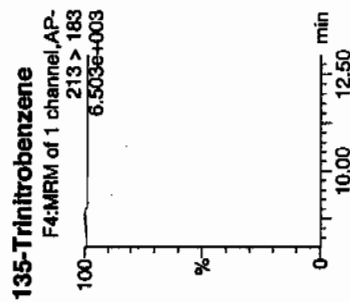
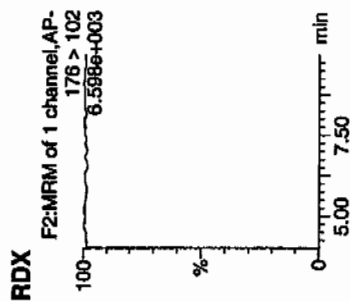
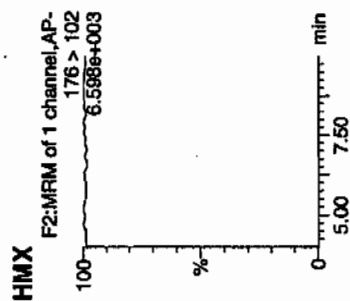
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Date: 11-Jan-2010

Time: 14:36:18

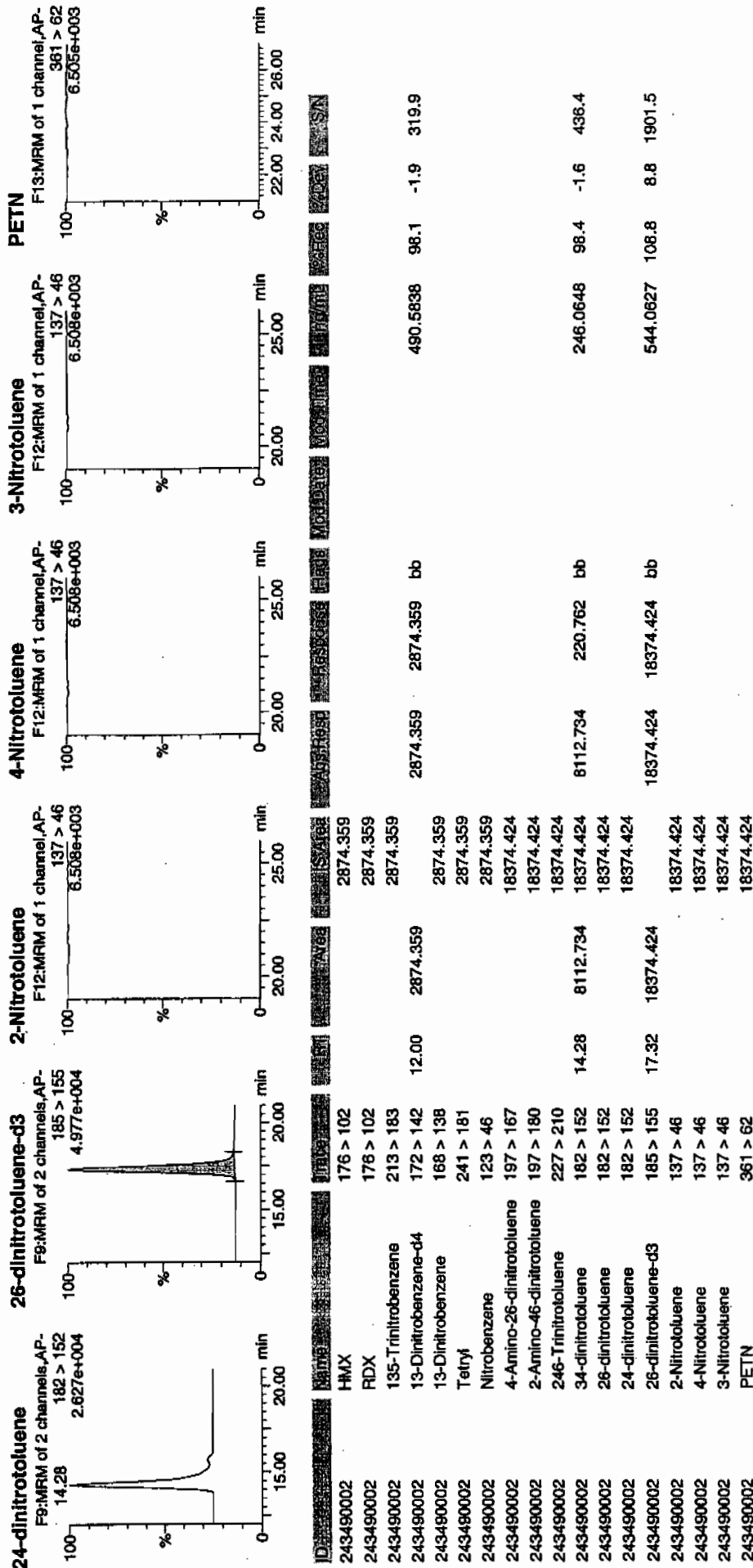
ID: 243490002

Vial: 3:1,F



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



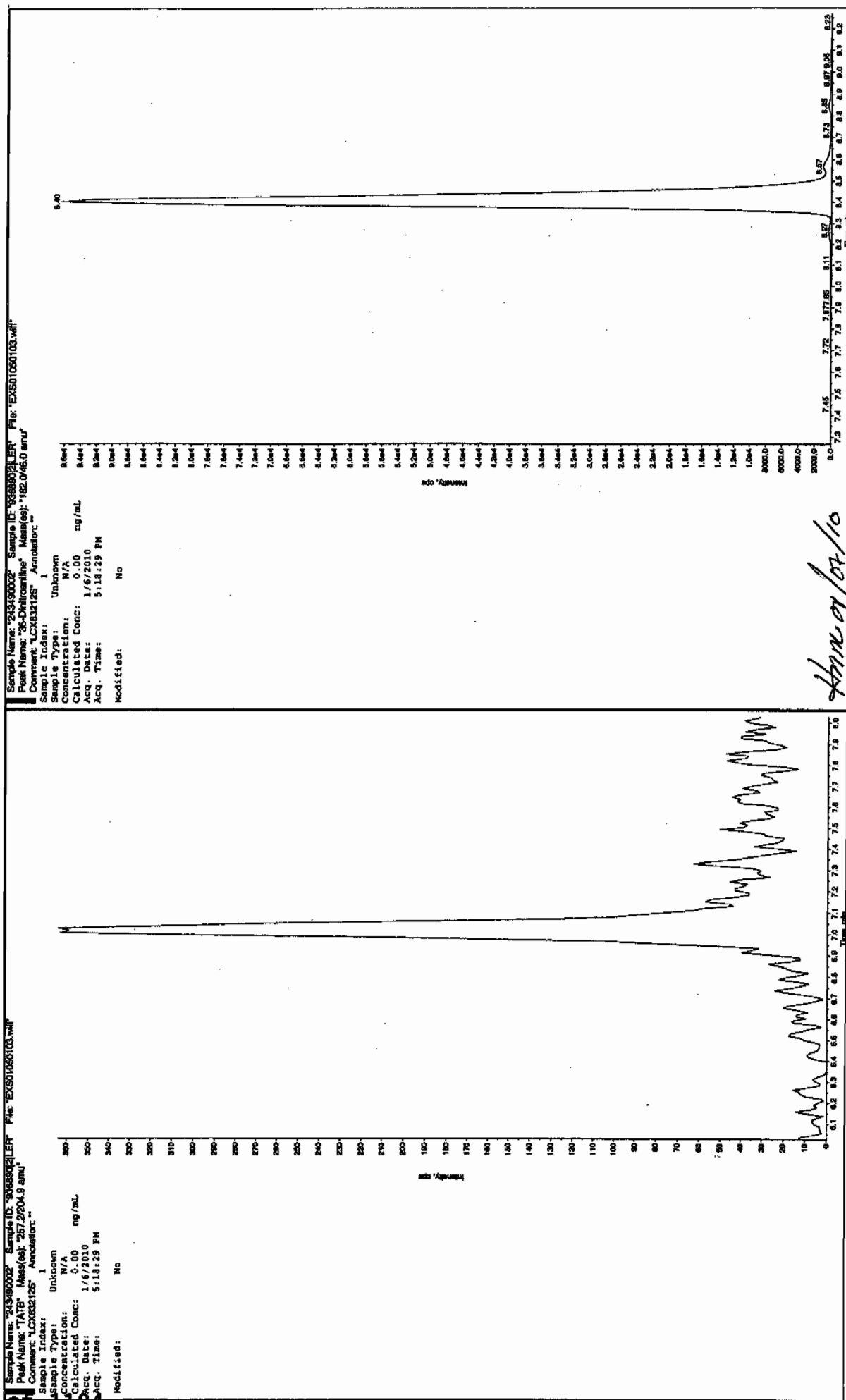
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLCClient Sample ID: RE12-10-7290Lab Code: GELGEL Job No (SDG) 10-1036Matrix: SOILGEL Sample ID: 243490002Sample Amount 2Moisture: 3.1Amount Units gDate Received: 23-DEC-09Extraction Type SonicationExtraction Batch ID: 936888Concentrated Extract Volume (mL) 10Date Extracted: 30-DEC-09Dilution Factor: 2Injection Volume (uL): 50GEL data file: EXS01050103.wiffDate Analyzed: 06-JAN-10 17:18Units: ug/kg

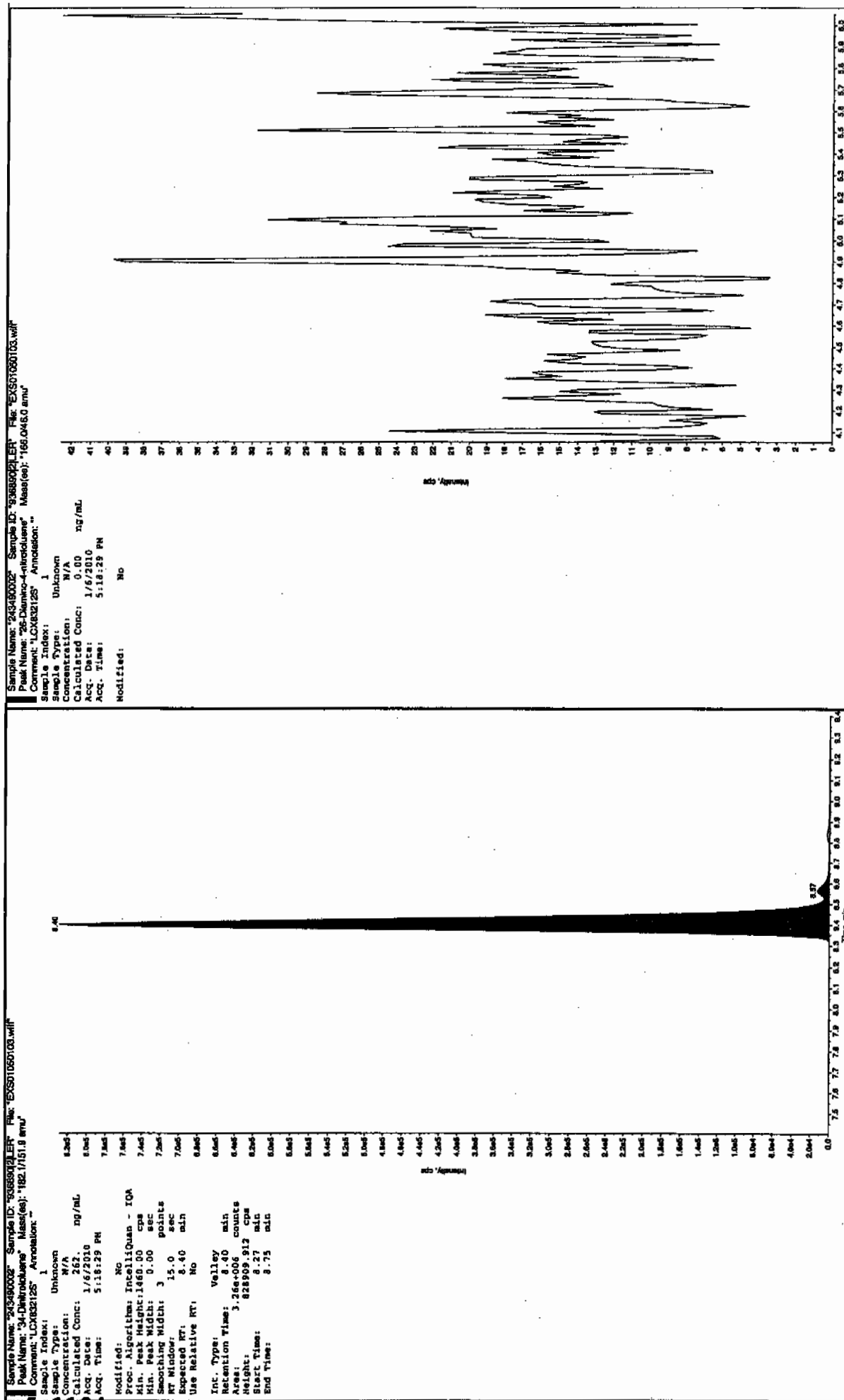
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amount		



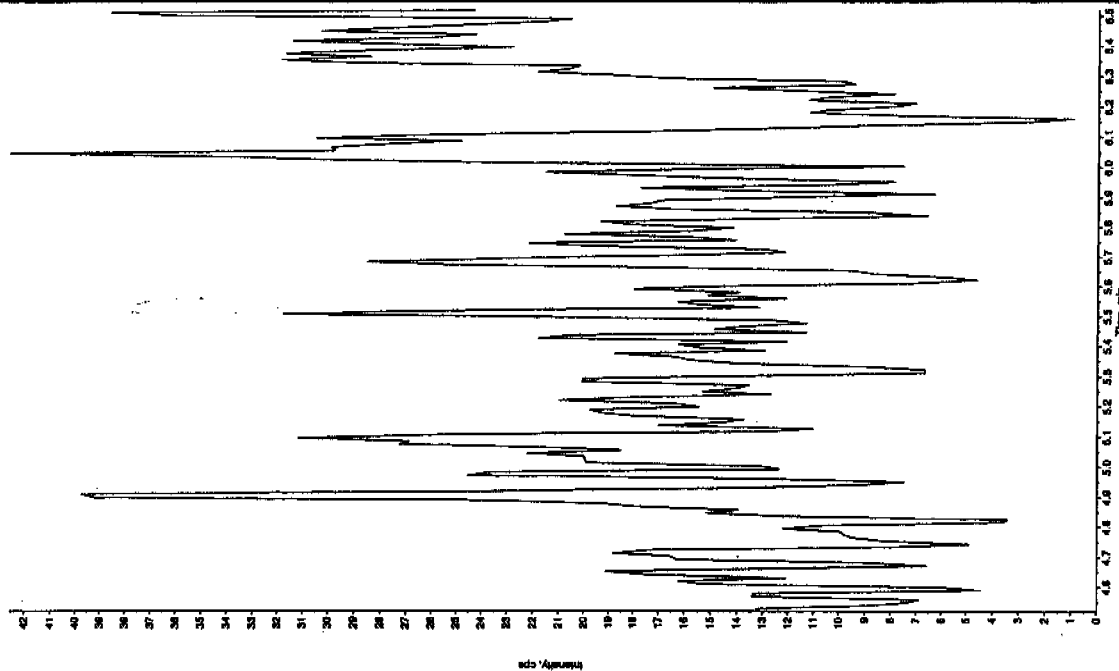
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

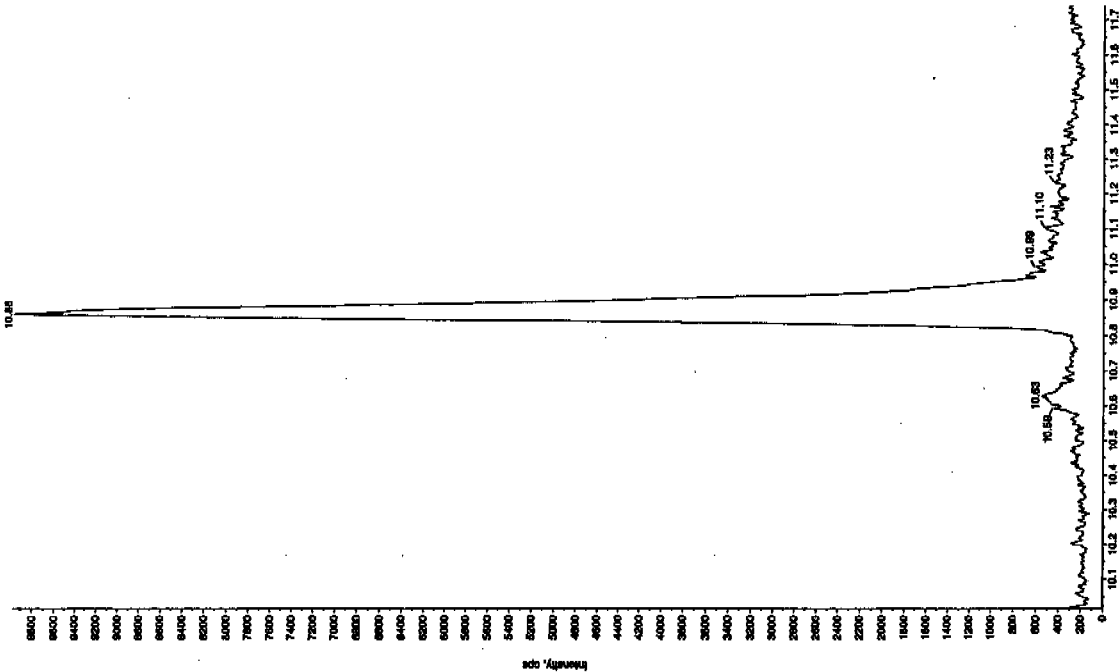
Sample Name: 24349002 Sample ID: 93668001.ERF File: EXS01050103.wif
 Peak Name: 24-Diamino-6-phosphonate Mass(es): 168.046.0 amu
 Comment: LCX832125 Annotation: 1

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:18:29 PM
 Modified: No



Sample Name: 24349002 Sample ID: 93668001.ERF File: EXS01050103.wif
 Peak Name: 10,10-dicyclophosphat Mass(es): 398.181.0 amu
 Comment: LCX832125 Annotation: 1

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:18:29 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108143a

Date Analyzed: 11-JAN-10 15:05

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

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Date: 11-Jan-2010

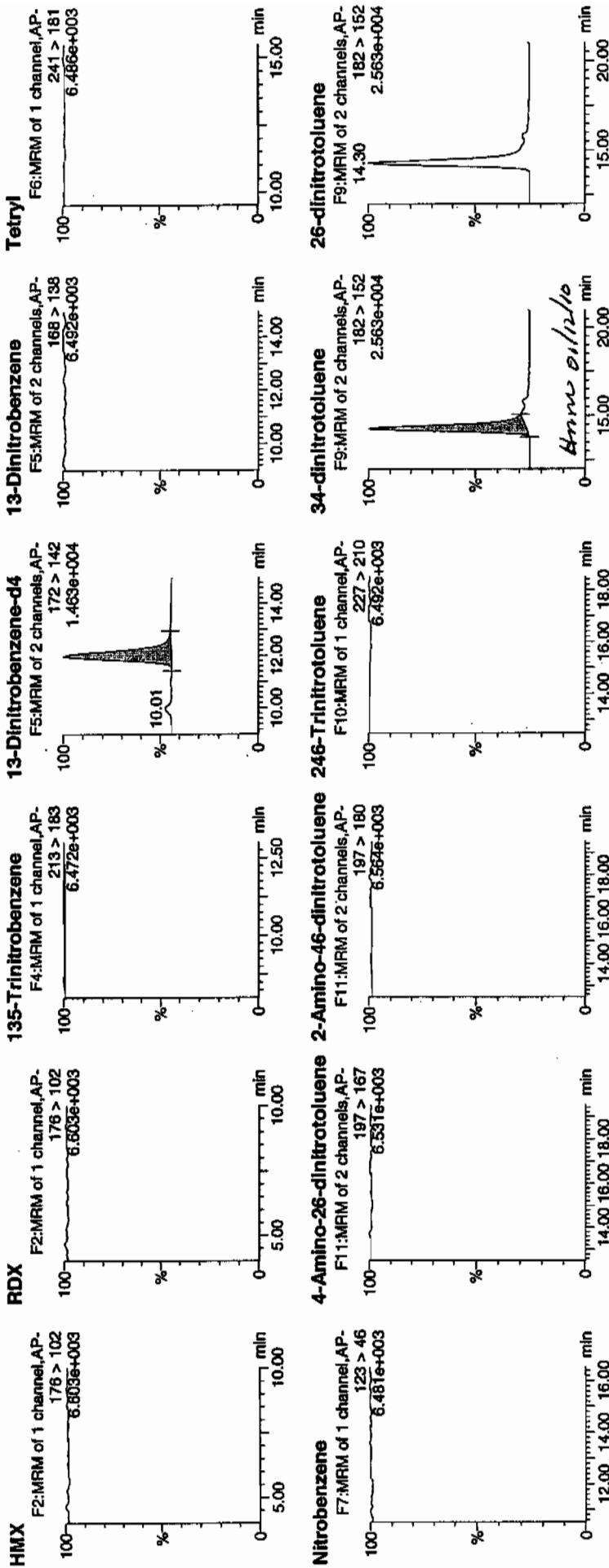
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ID: 243490003

Vial: 3:2,A

not
1/12/10

LA-936840 / 21

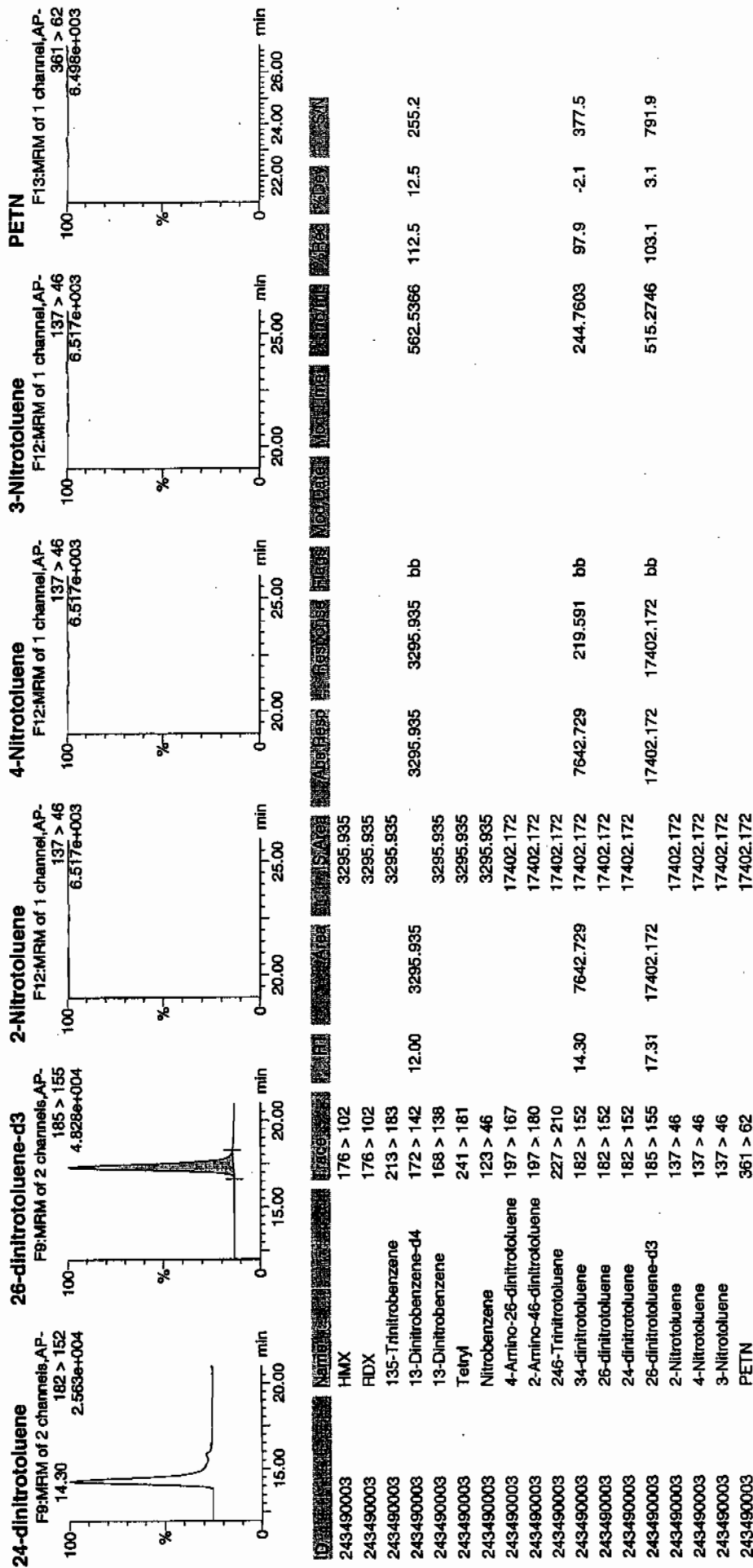


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 38 of 111

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7289

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490003

Sample Amount 2

Moisture: 9.9

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050104.wiff

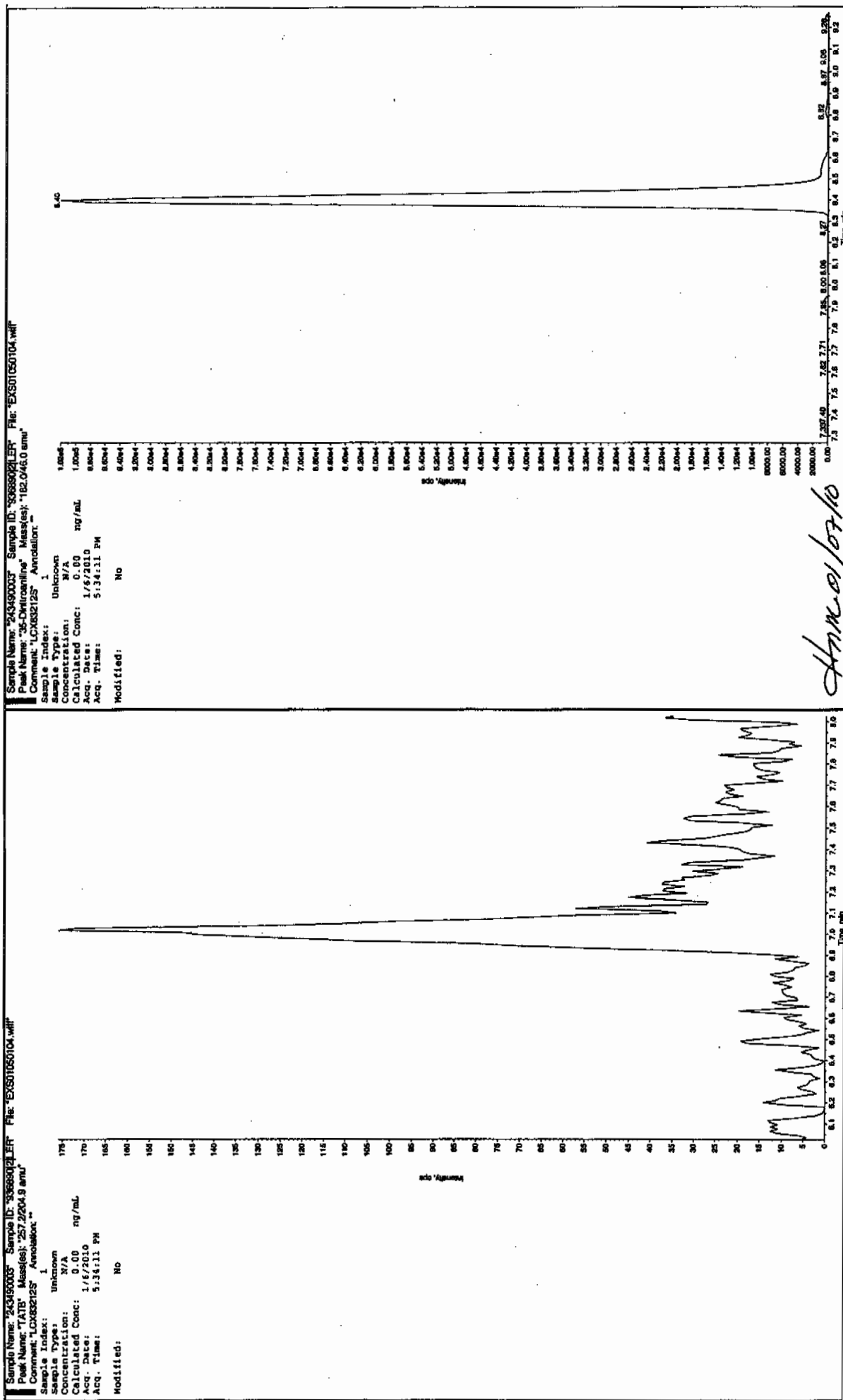
Date Analyzed: 06-JAN-10 17:34

Units: ug/kg

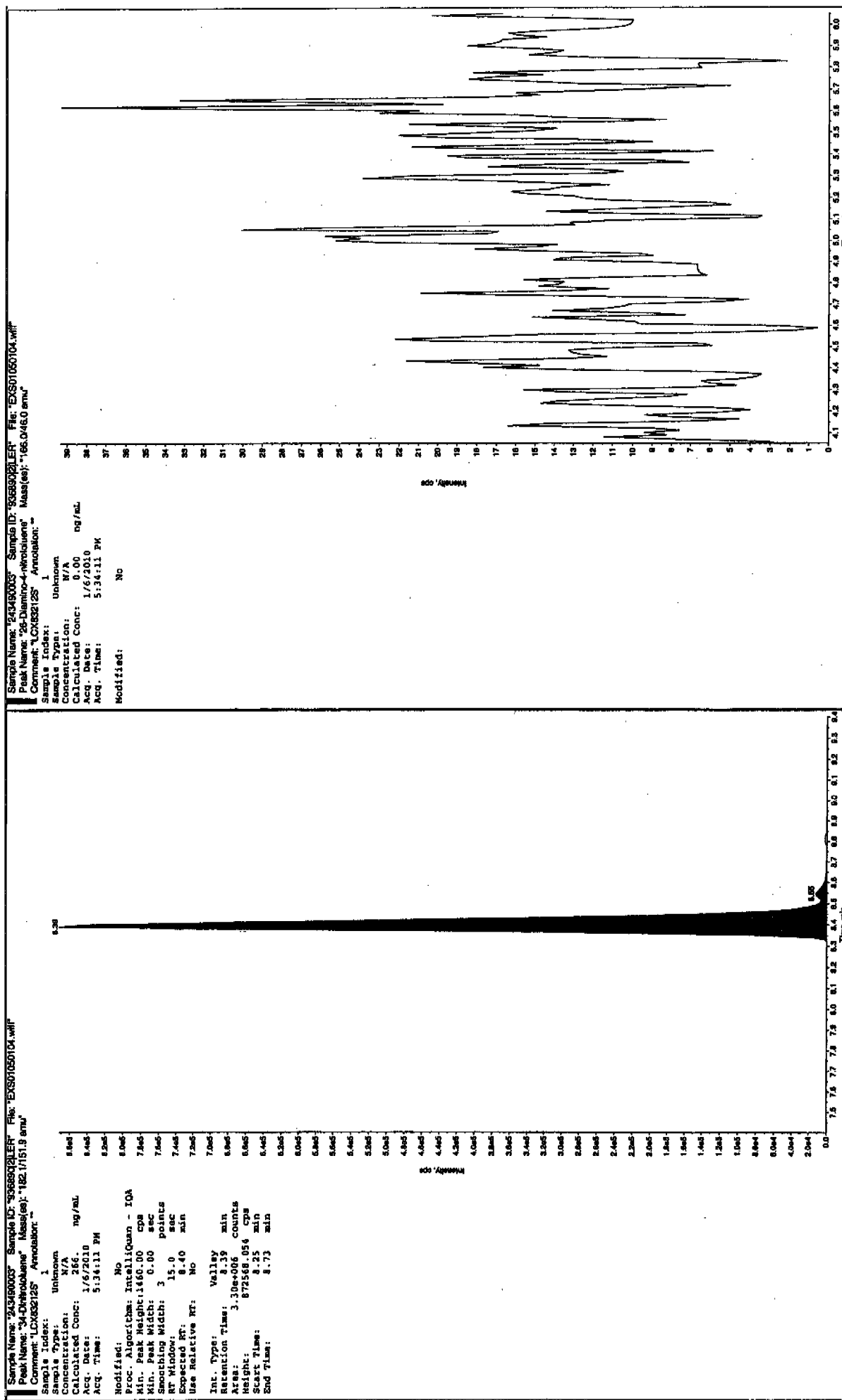
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument		X	Concentrated Extract Volume		X	Dilution
Value			Sample Amoun			Factor



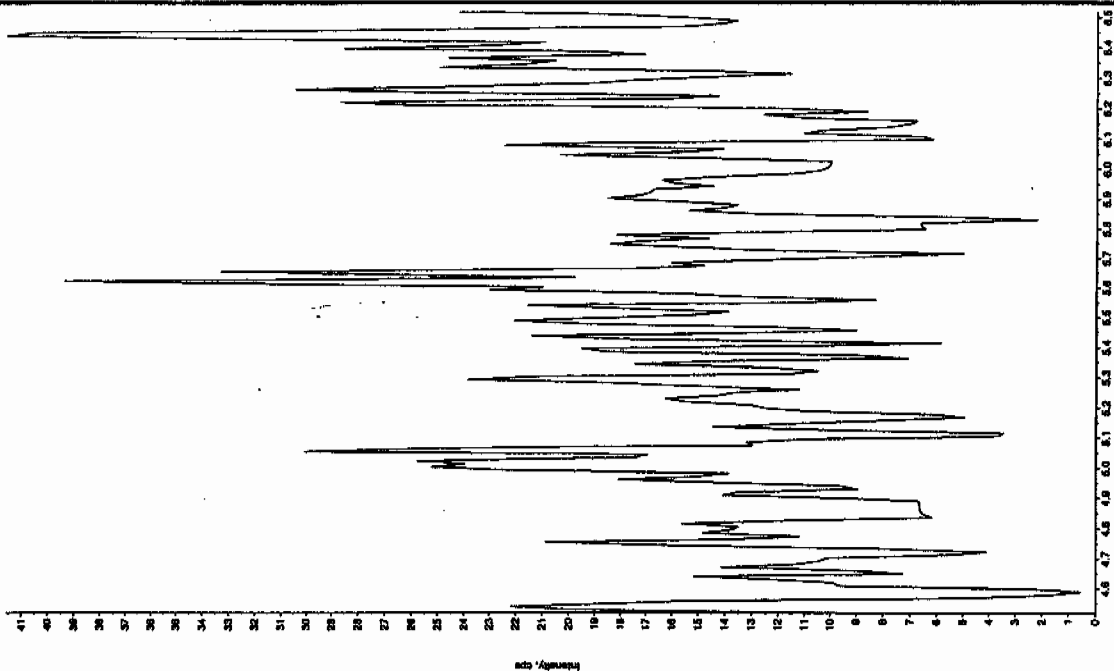
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

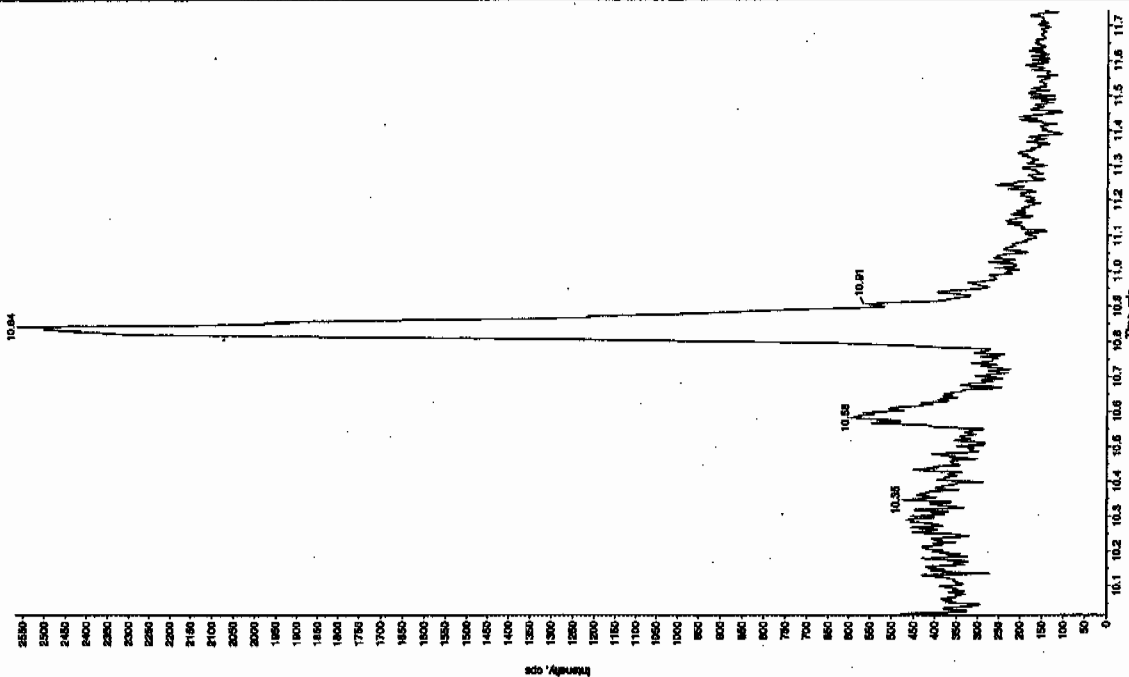
Sample Name: "24348003" Sample ID: "9358002" File: "EX501050104.wif"
 Peak Name: "24-Diamino-6-nitrophenol" Mass(es): "168.04610 amu"
 Comment: "LCX532125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:34:11 PM
 Modified: No



Sample Name: "24348003" Sample ID: "9358002" File: "EX501050104.wif"
 Peak Name: "1680-cisyl phosphate" Mass(es): "369.18110 amu"
 Comment: "LCX532125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:34:11 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108144a

Date Analyzed: 11-JAN-10 15:35

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108144a

Date: 11-Jan-2010

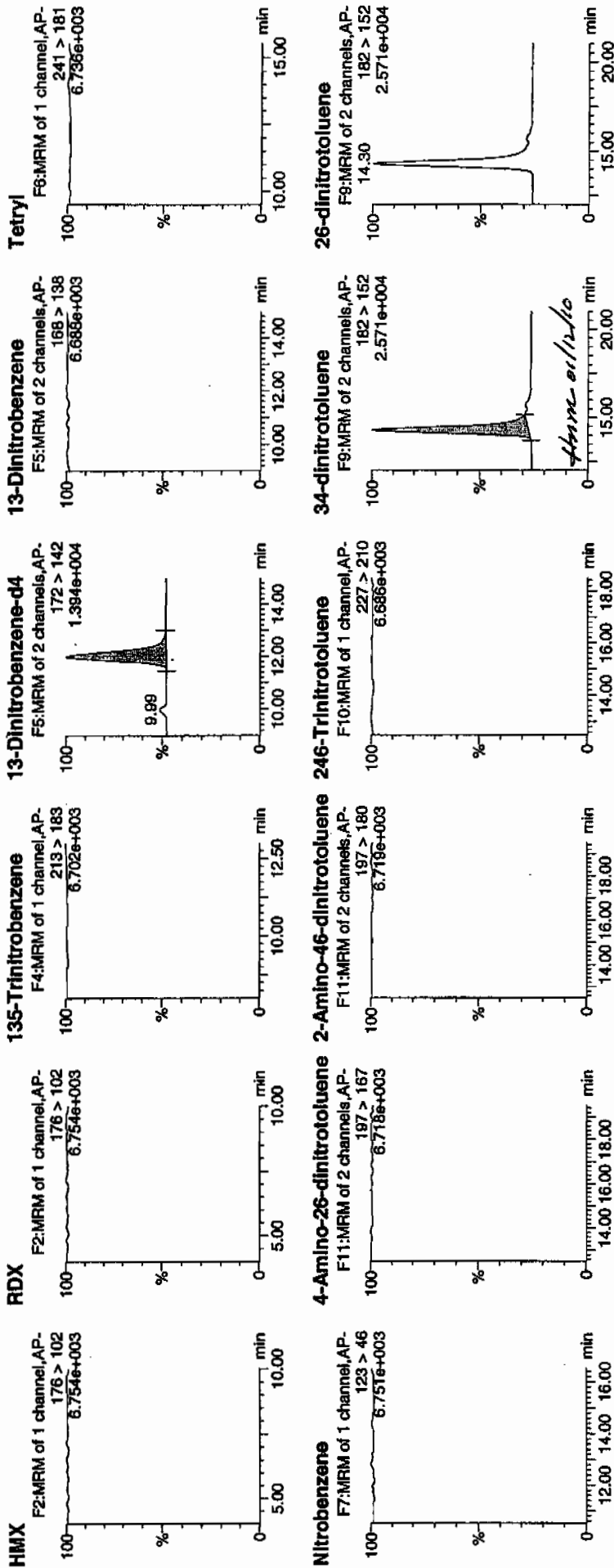
Time: 15:35:15

ID: 243490004

Vial: 3:2,B

1407
1/12/10

Law 93690 / 21

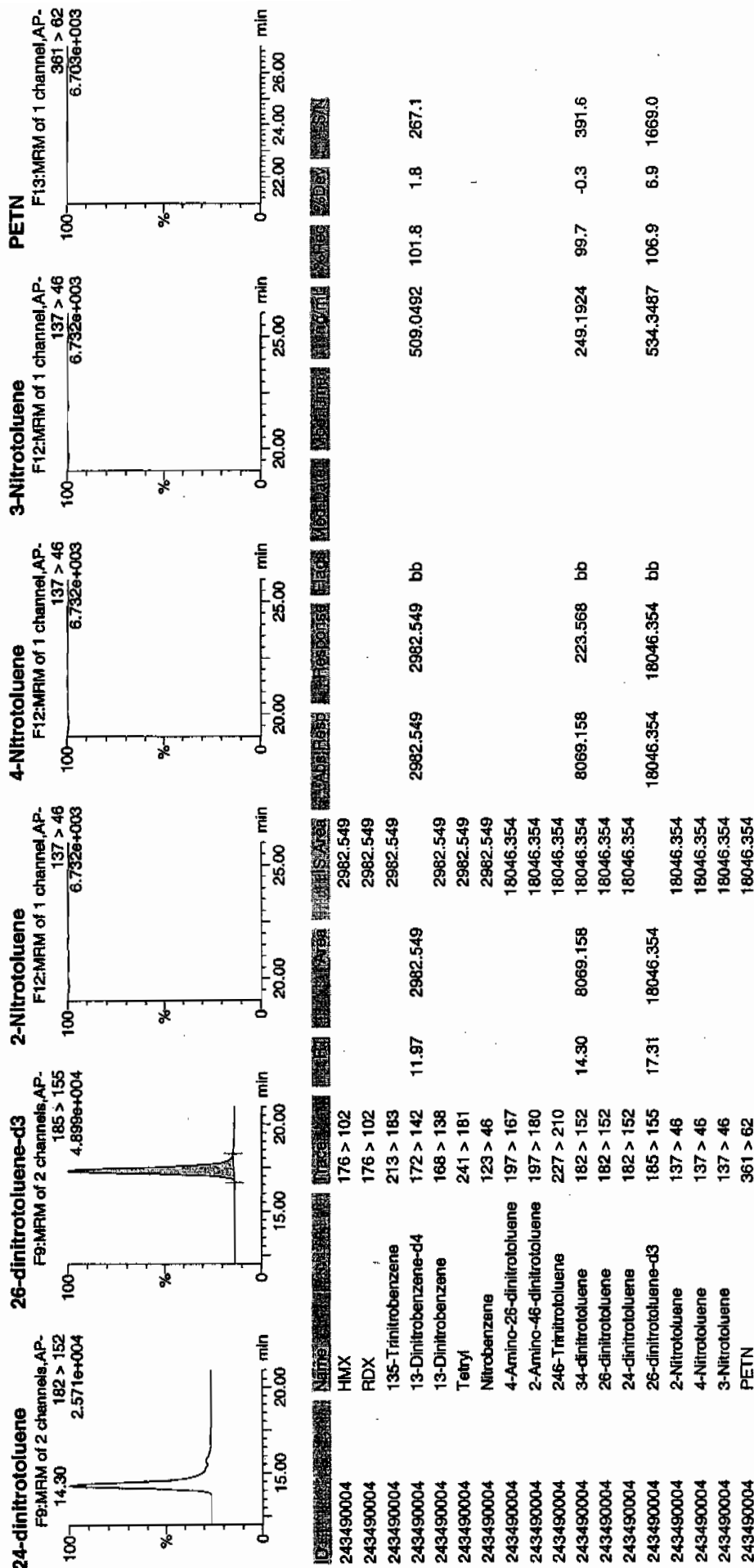


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 40 of 111

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7291

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490004

Sample Amount 2

Moisture: 8.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050105.wiff

Date Analyzed: 06-JAN-10 17:49

Units: ug/kg

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

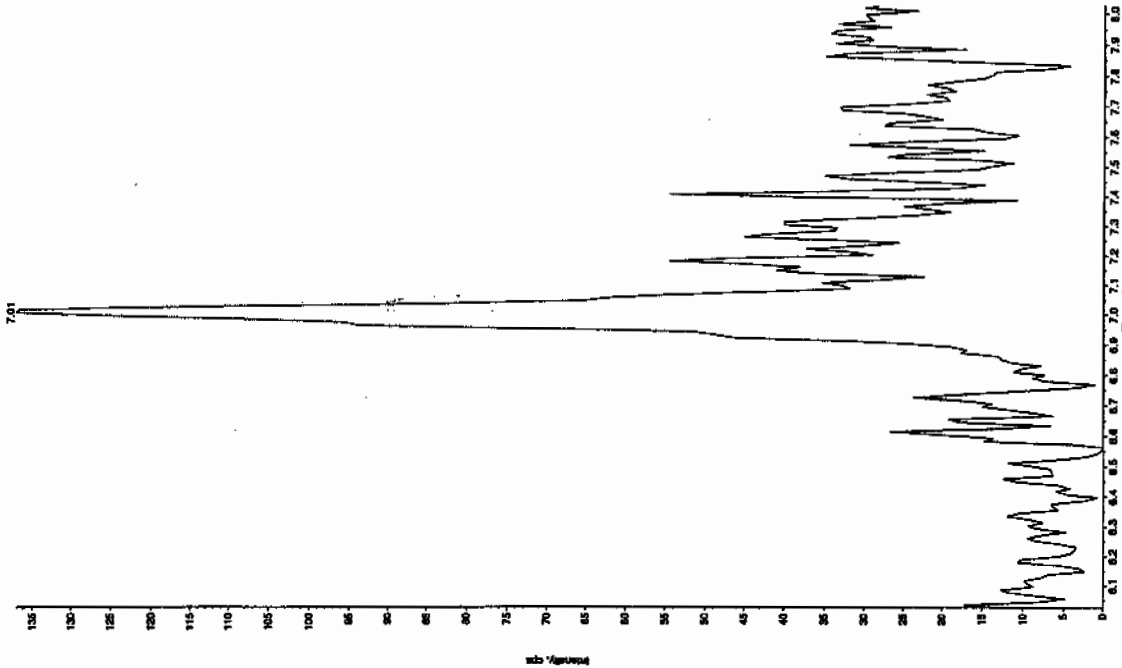
*Concentration =

Instrument		X	<u>Concentrated Extract Volume</u>		X	Dilution
Value			Sample Amoun			Factor

01/10/20

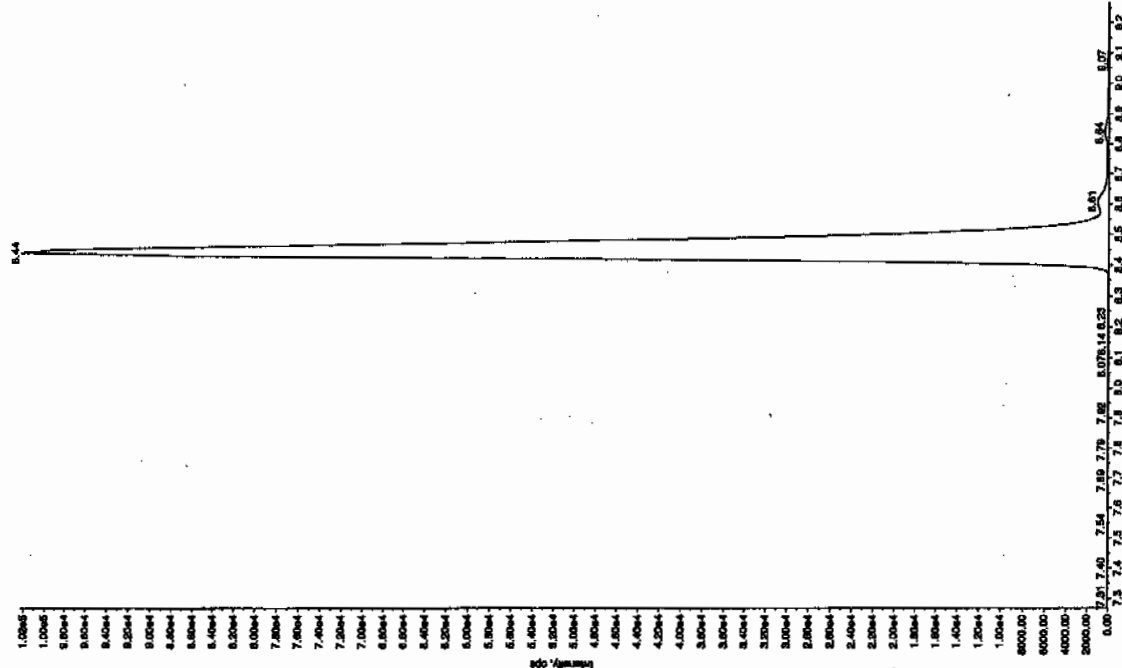
Sample Name: "243880004" Sample ID: "204880004" File: "EXS01050105.wif"
 Peak Name: "TATB" Mass(es): "267.2204.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:49:53 PM
 Modified: No



Sample Name: "243880004" Sample ID: "204880004" File: "EXS01050105.wif"
 Peak Name: "35-Chlorocyclohexene" Mass(es): "182.046.0 amu"
 Comment: "LCX832125" Annotation: ""

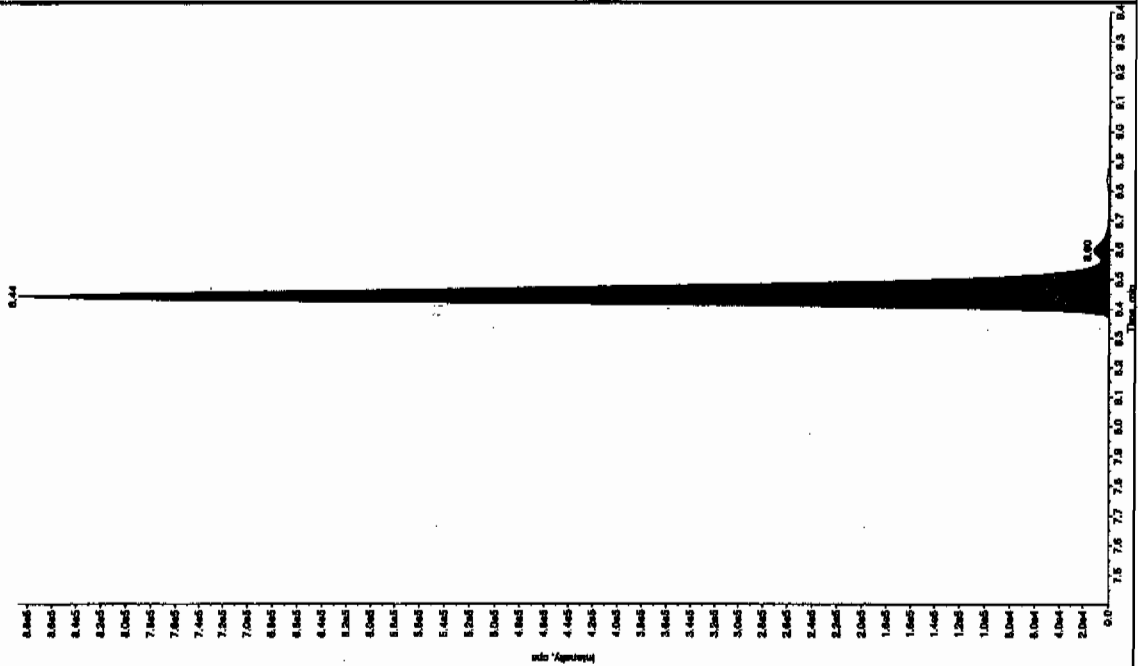
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:49:53 PM
 Modified: No



Handwritten signature: HANNE-01/07/10

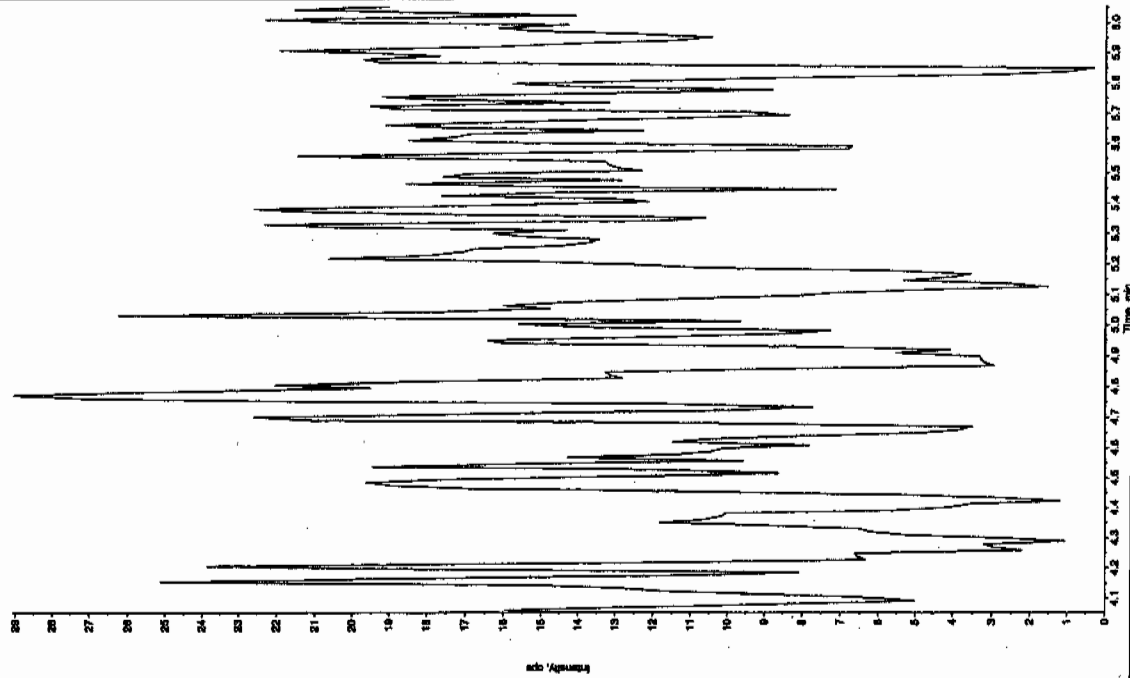
Sample Name: "243490004" Sample ID: "3388902125" File: "EXS01050105.wif"
 Peak Name: "34-Chlorobenzene" Mass(es): "182.11513 amu"
 Comment: "L07032125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:49:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.44 min
 Area: 3.32e+006 counts
 Height: 837862.183 cps
 Start Time: 8.31 min
 End Time: 8.75 min



Sample Name: "243490004" Sample ID: "3388902125" File: "EXS01050105.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "186.04610 amu"
 Comment: "L07032125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 5:49:53 PM
 Modified: No



Sample Name: "243490004" Sample ID: "9368902125" File: "EXS01050105.wif"

Peak Name: "24-Diamino-6-nitroindane" Mass(es): "165.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 5:49:53 PM

Acq. Time: 5:49:53 PM

Modified: No

Sample Name: "243490004" Sample ID: "9368902125" File: "EXS01050105.wif"

Peak Name: "Methyl-phenyl phosphite" Mass(es): "359.181.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

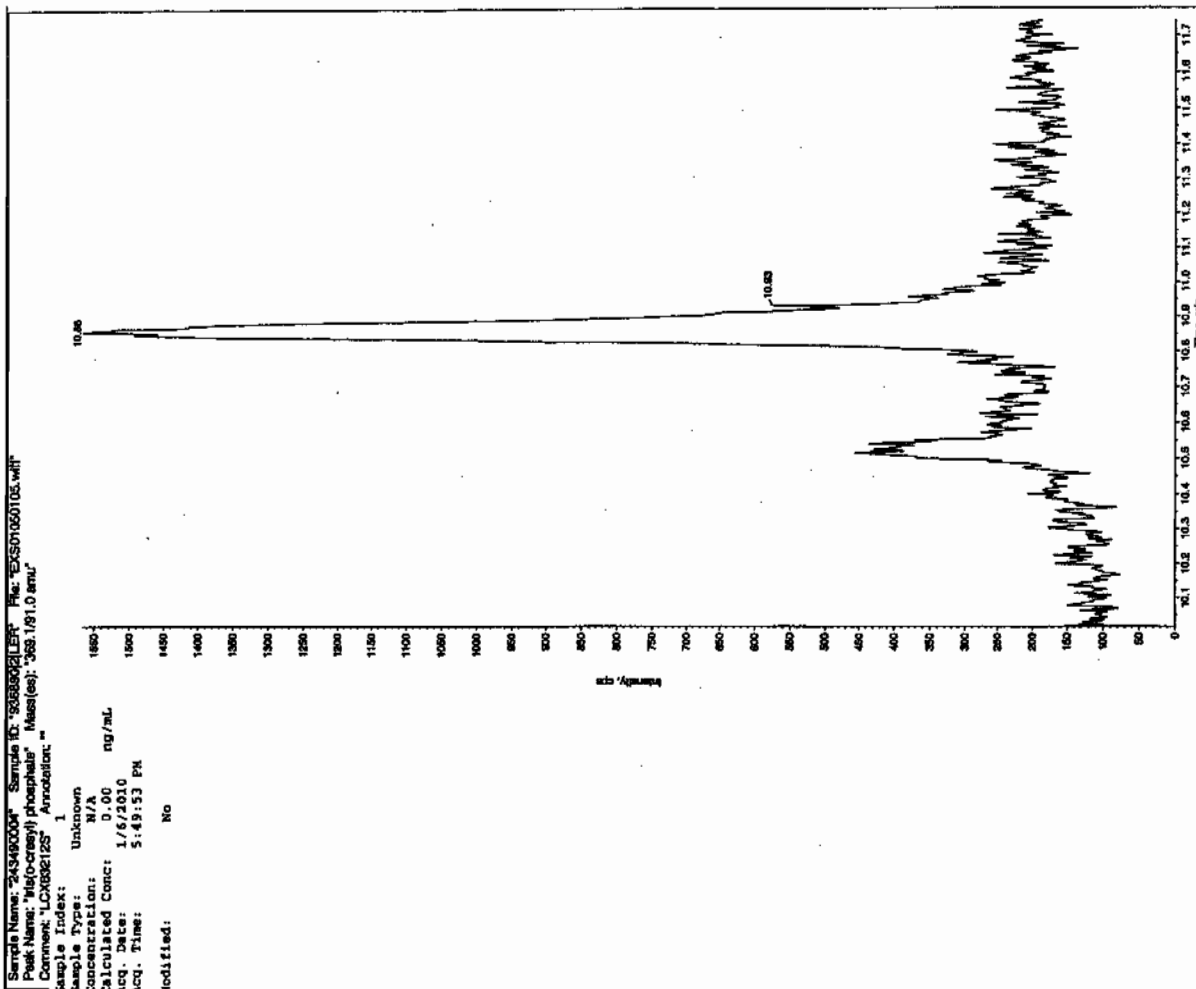
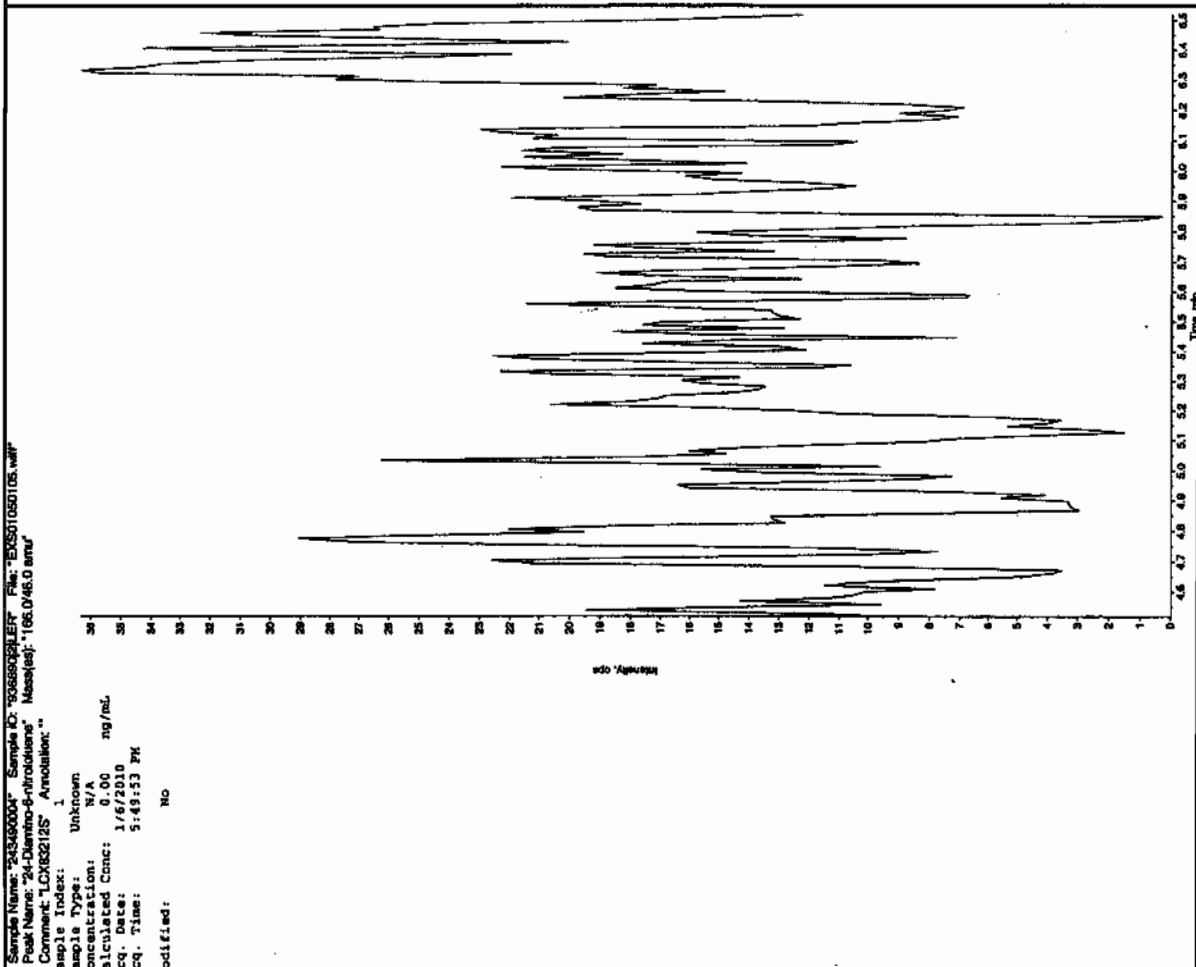
Concentration: 0.00 ng/mL

Calculated Conc: 1/6/2010

Acq. Date: 5:49:53 PM

Acq. Time: 5:49:53 PM

Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108145a

Date Analyzed: 11-JAN-10 16:04

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

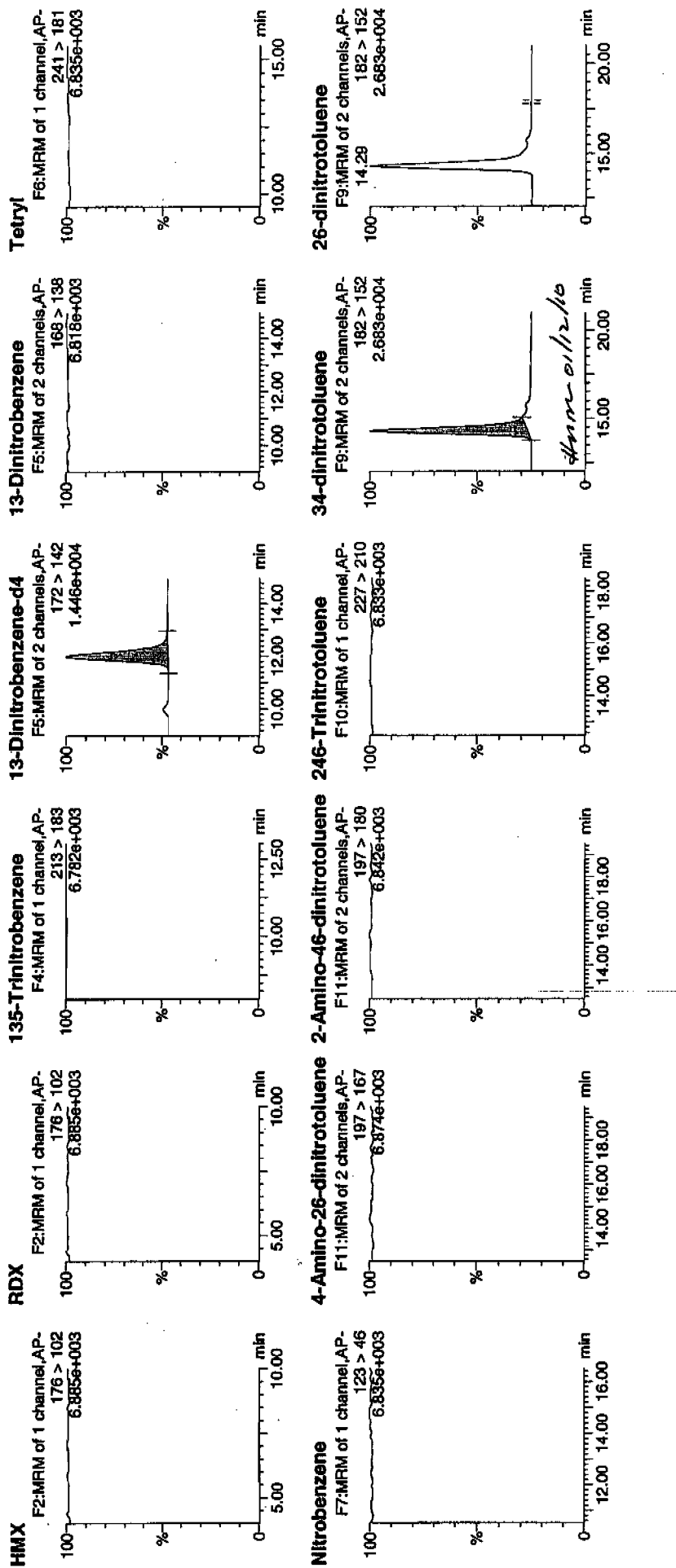
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108145a

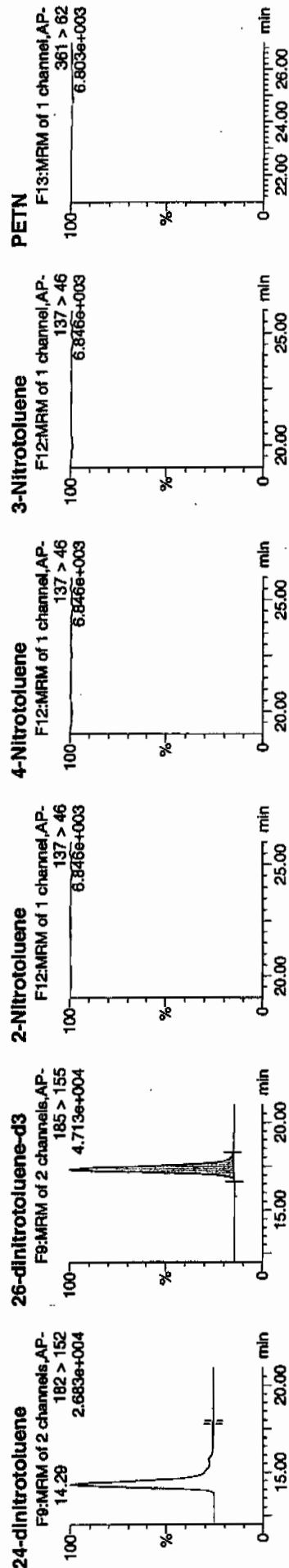
Date: 11-Jan-2010

Time: 16:04:43

ID: 243490005

Vial: 3:2,C

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93690 / 21



Name	ID	Accession Number	Date	Area	Intensity	Response	Page	Mod Date	Mod Time	Status	Score	SSN
HMX	243490005	176 > 102			3072.374							
RDX	243490005	176 > 102			3072.374							
135-Trinitrobenzene	243490005	213 > 183			3072.374							
13-Dinitrobenzene-d4	243490005	172 > 142	12.00	3072.374		3072.374	bb			524.3801	104.9	4.9
13-Dinitrobenzene	243490005	168 > 138			3072.374							265.0
Tetryl	243490005	241 > 181			3072.374							
Nitrobenzene	243490005	123 > 46			3072.374							
4-Amino-26-dinitrotoluene	243490005	197 > 167			17086.902							
2-Amino-46-dinitrotoluene	243490005	197 > 180			17086.902							
246-Trinitrotoluene	243490005	227 > 210			17086.902							
34-dinitrotoluene	243490005	182 > 152	14.29	8145.459	17086.902	8145.459	238.633	bb		265.9849	106.4	6.4
26-dinitrotoluene	243490005	182 > 152			17086.902			MM-	12-Jan-10	10:16:31		355.8
24-dinitrotoluene	243490005	182 > 152			17086.902			MM-	12-Jan-10	10:22:16		
26-dinitrotoluene-d3	243490005	185 > 155	17.33	17066.902		17066.902	17066.902	bb		505.3473	101.1	1.1
2-Nitrotoluene	243490005	137 > 46			17066.902							990.8
4-Nitrotoluene	243490005	137 > 46			17066.902							
3-Nitrotoluene	243490005	137 > 46			17066.902							
PETN	243490005	361 > 62			17086.902							

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7292

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490005

Sample Amount 2

Moisture: 6.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050106.wiff

Date Analyzed: 06-JAN-10 18:05

Units: ug/kg

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

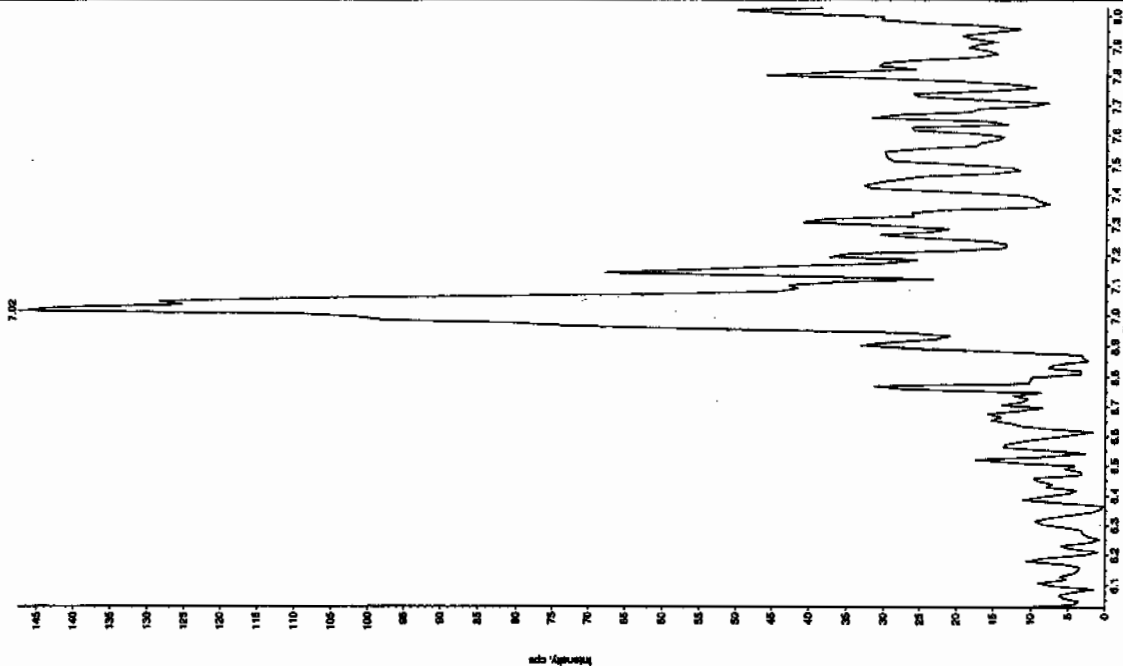
*Concentration =

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

01/14/10
2010

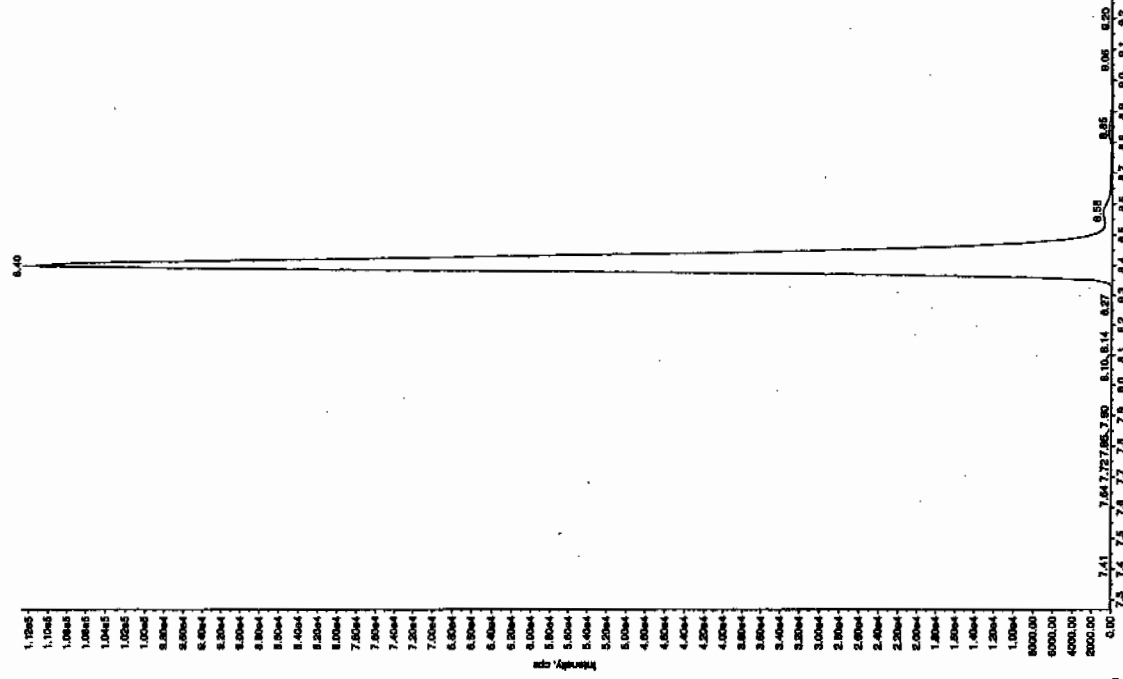
Sample Name: "243460005" Sample ID: "9368902125" File: "EX501050106.wdf"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCX832125" Annotation: "-"

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:05:33 PM
Modified: No



Sample Name: "243460005" Sample ID: "9368902125" File: "EX501050106.wdf"
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCX832125" Annotation: "-"

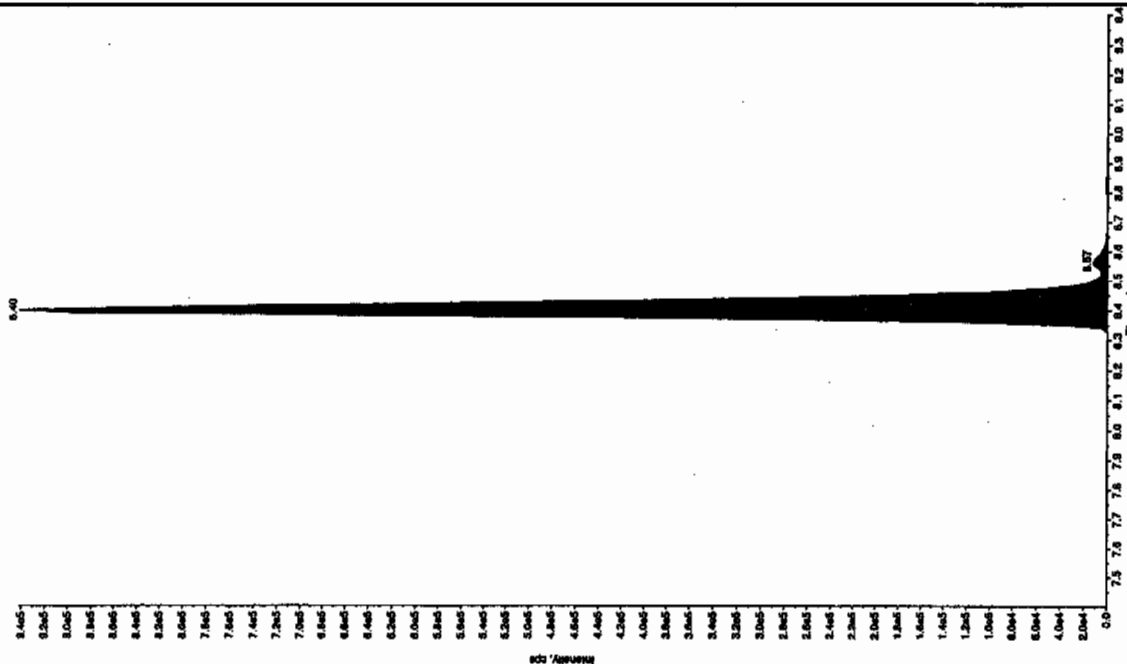
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/6/2010
Acq. Time: 6:05:35 PM
Modified: No



Handwritten signature: *Handwritten signature*

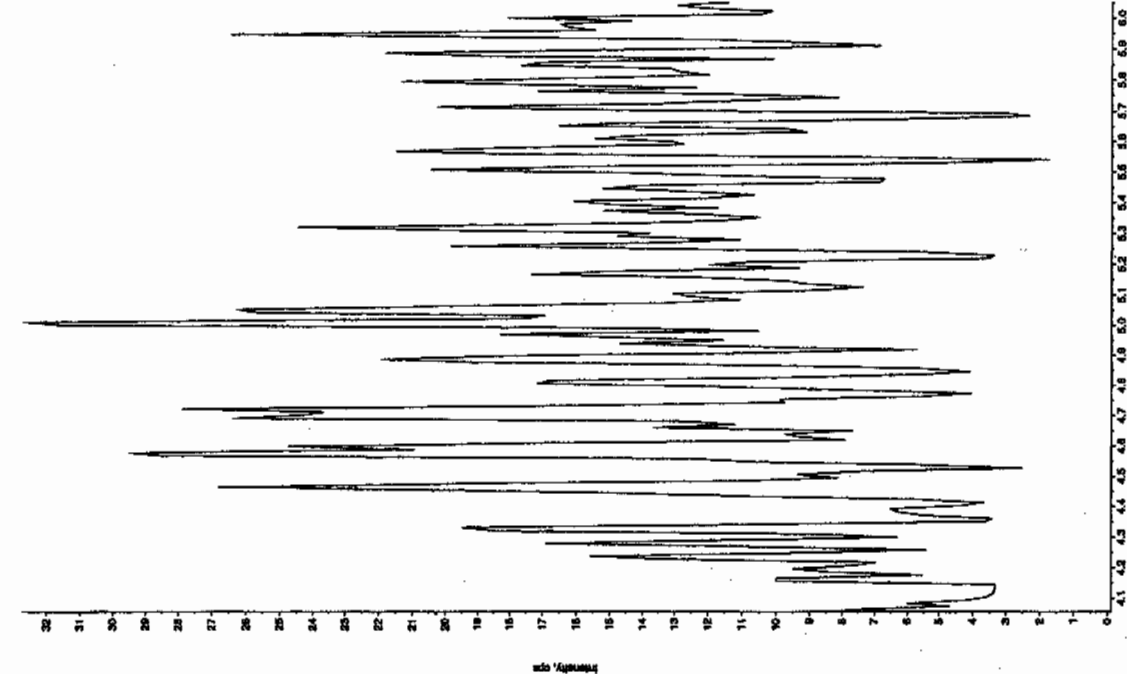
Sample Name: "243480005" Sample ID: "83689021ER" File: "EX501060106.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 277.1 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:05:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 3.43e+006 counts
 Height: 941904.297 cps
 Start Time: 8.31 min
 End Time: 8.74 min



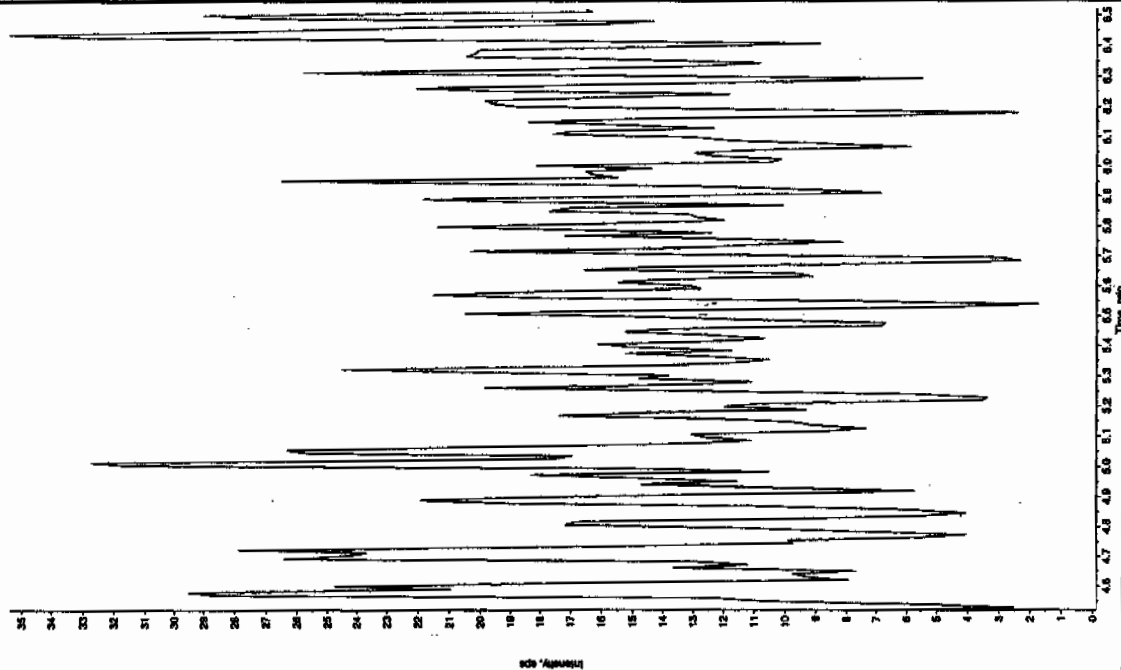
Sample Name: "243480005" Sample ID: "83689021ER" File: "EX501060106.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:05:35 PM
 Modified: No



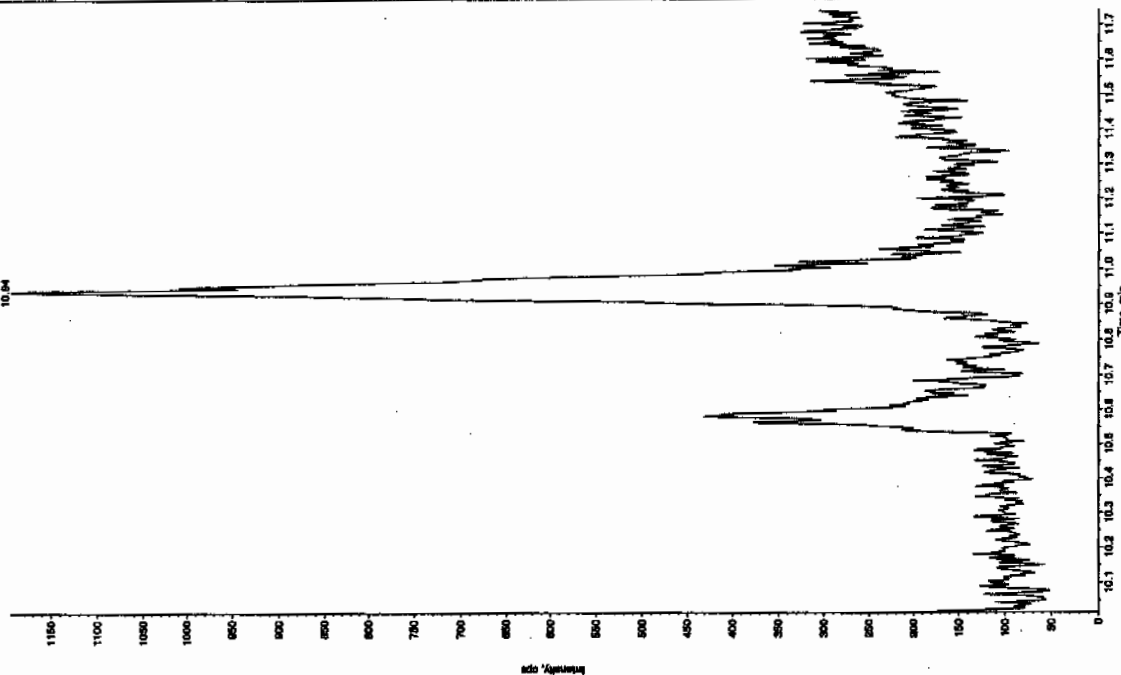
Sample Name: "243490005" Sample ID: "96880021.ER" File: "EX001060106.wif"
 Peak Name: "24-O-methyl-marcouline" Mass(es): "168.046.0 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: Unknown
 Sample Type: W/A
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 6:05:35 PM
 Acq. Time: No
 Modified: No



Sample Name: "243490005" Sample ID: "96880021.ER" File: "EX001060106.wif"
 Peak Name: "bis(2-oxo-1-oxoethyl) phosphatidyl" Mass(es): "368.191.0 amu"
 Comment: "LCX632125" Annotation: "

Sample Index: Unknown
 Sample Type: W/A
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 6:05:35 PM
 Acq. Time: No
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7293

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490006

Sample Amount 2

Moisture: 2.5

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108146a

Date Analyzed: 11-JAN-10 16:34

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108146a

Date: 11-Jan-2010

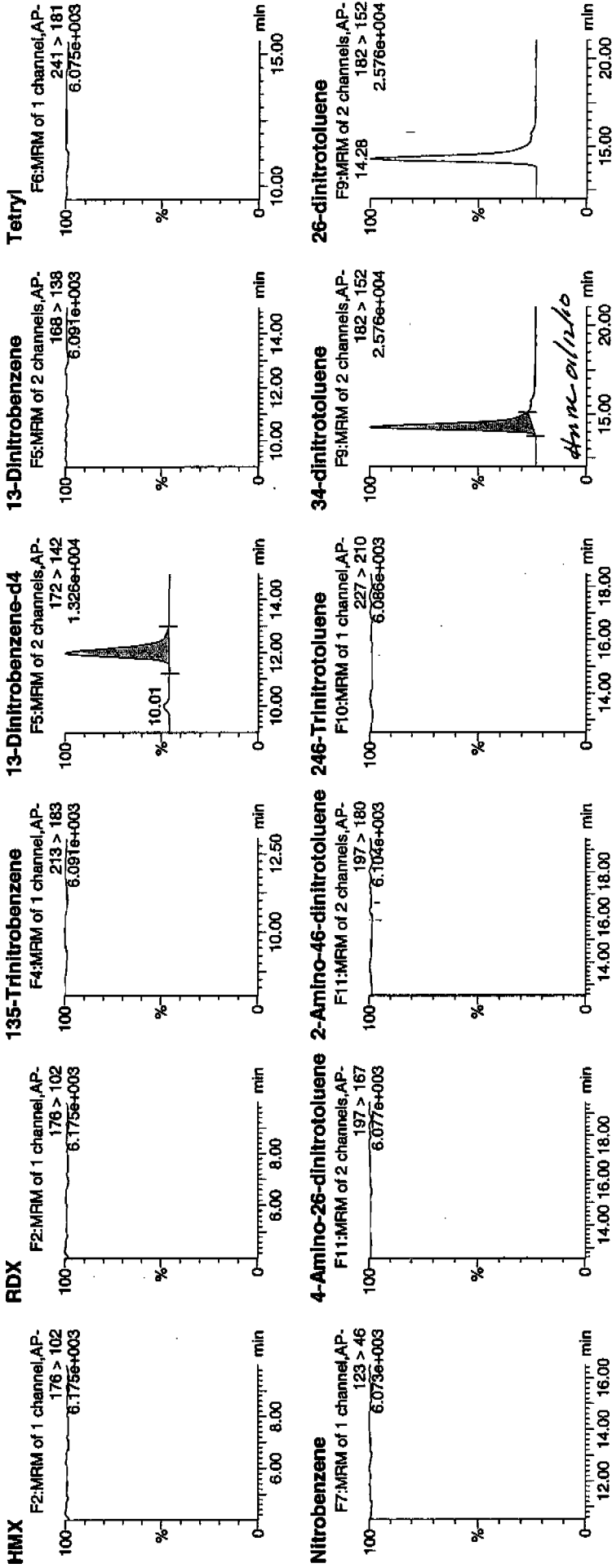
Time: 16:34:11

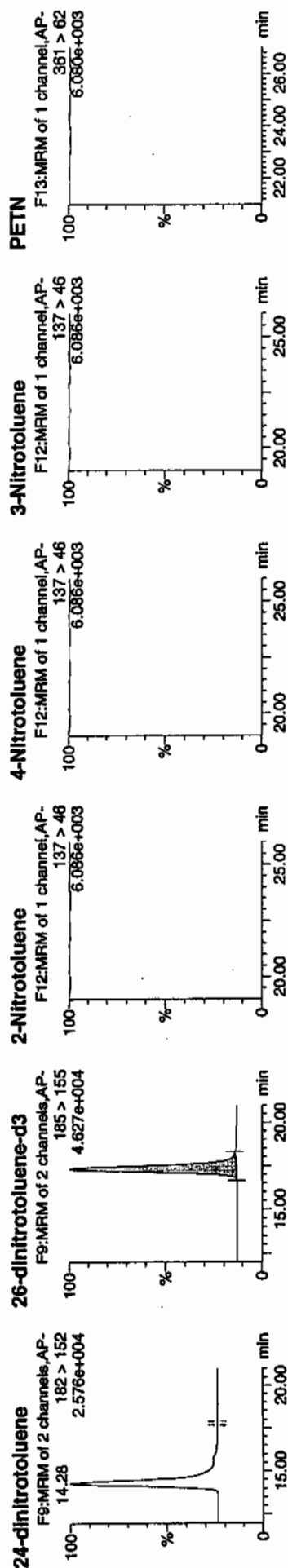
ID: 243490006

Vial: 3:2,D

WAF
1/12/10

AWF 936920 / 21



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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLCClient Sample ID: RE12-10-7293Lab Code: GELGEL Job No (SDG) 10-1036Matrix: SOILGEL Sample ID: 243490006Sample Amount 2Moisture: 2.5Amount Units gDate Received: 23-DEC-09Extraction Type SonicationExtraction Batch ID: 936888Concentrated Extract Volume (mL) 10Date Extracted: 30-DEC-09Dilution Factor: 2Injection Volume (uL): 50GEL data file: EXS01050107.wiffDate Analyzed: 06-JAN-10 18:21Units: ug/kg

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

*Concentration =

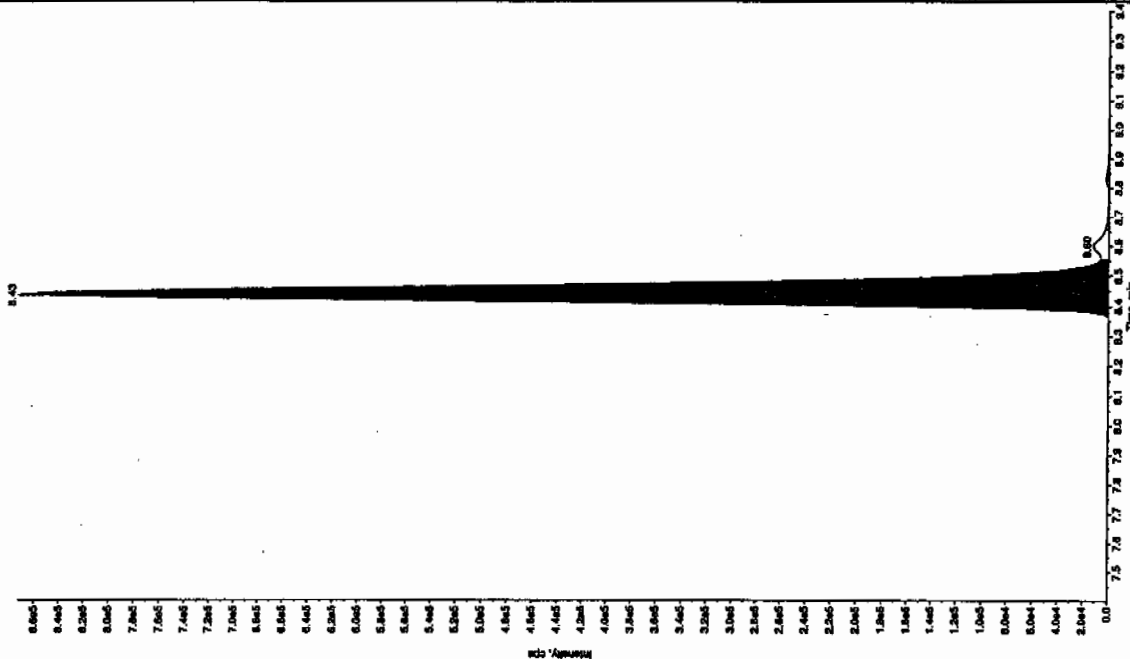
Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

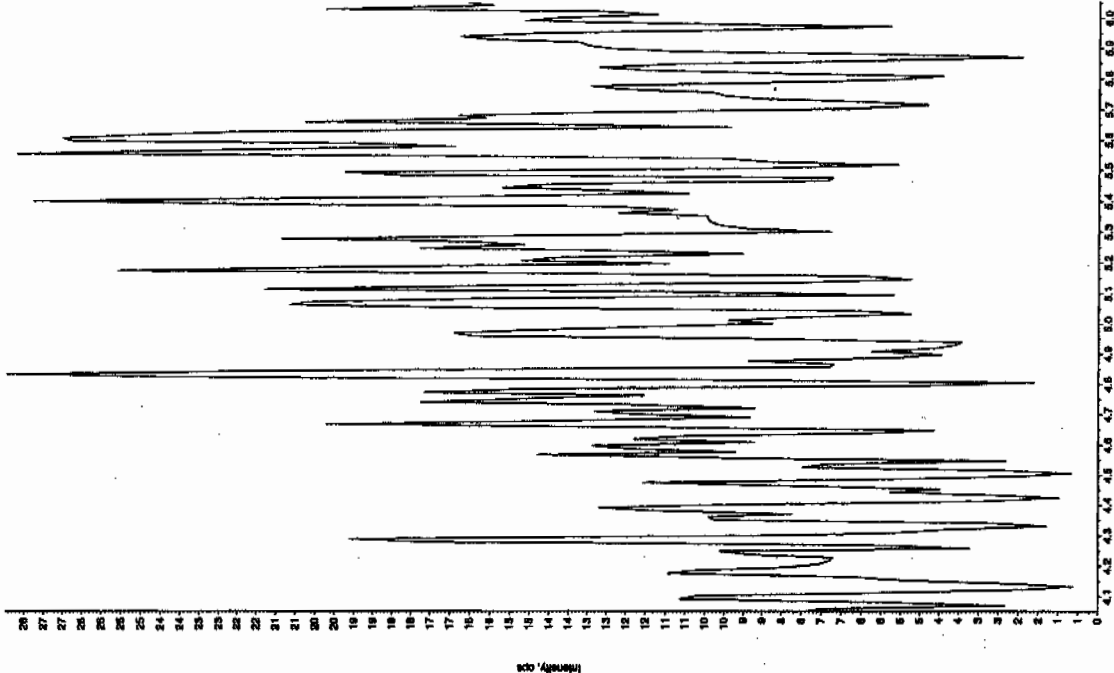
Sample Name: "24340006" Sample ID: "935892125" File: "EX01050107.wif"
 Peak Name: "34-Dihydrokone" Mass(es): "182.1/151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 258. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:21:18 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1400.00 cps
 Min. Peak Width: 3.00 sec
 Spectroscopy Width: 15.0 points
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.43 min
 Area: 3.13e+006 counts
 Height: 872821.945 cps
 Start Time: 8.34 min
 End Time: 8.56 min



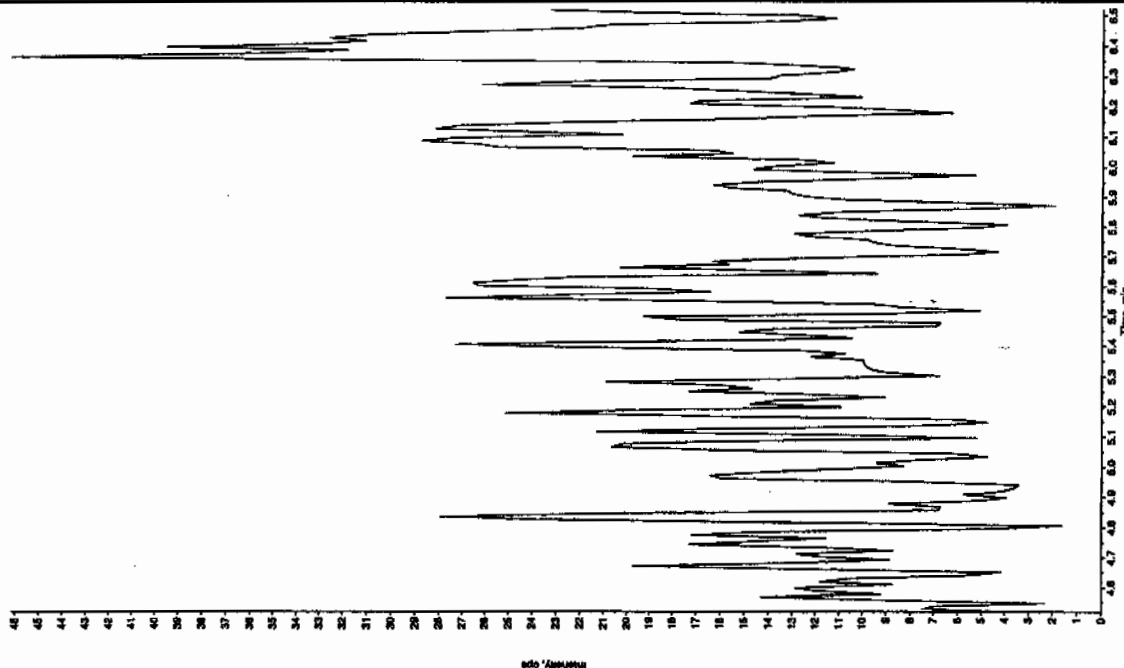
Sample Name: "24340006" Sample ID: "935892125" File: "EX01050107.wif"
 Peak Name: "25-Diamino-4-nitrobenzoate" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:21:18 PM
 Modified: No



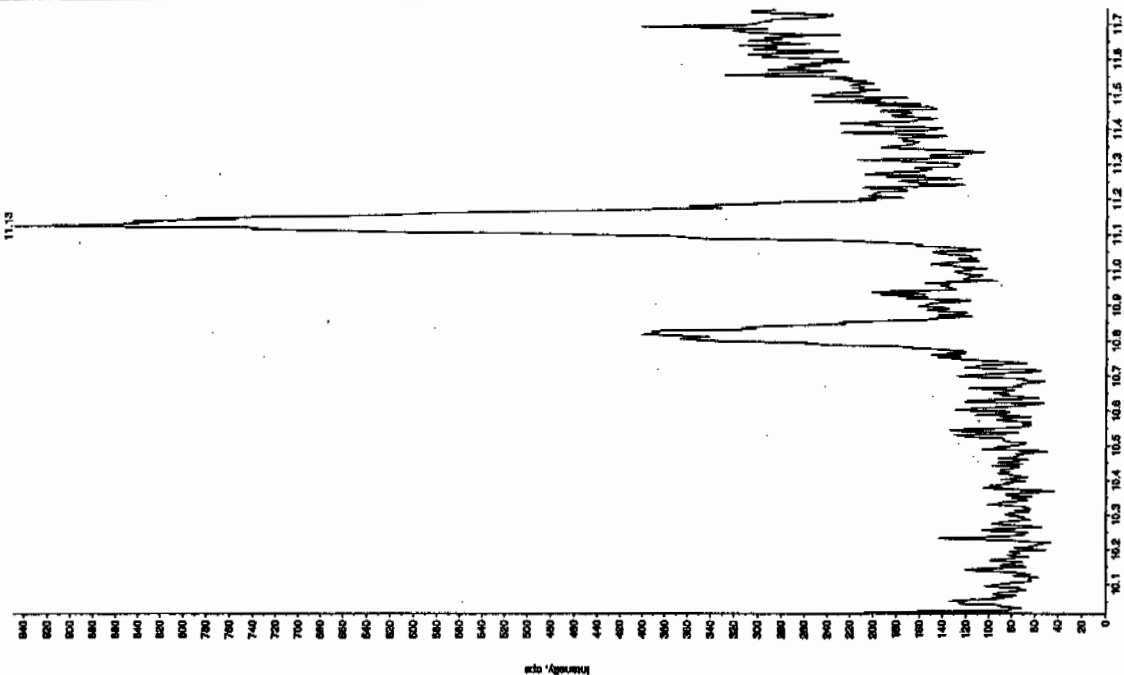
Sample Name: "24300005" Sample ID: "335890121.ER" File: "EX501050107.wif"
 Peak Name: "24-Diamino-5-ethynylster" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:21:18 PM
 Modified: No



Sample Name: "24300005" Sample ID: "335890121.ER" File: "EX501050107.wif"
 Peak Name: "24-Diamino-5-ethynylster" Mass(es): "368.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:21:18 PM
 Modified: No



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108094a

Date Analyzed: 10-JAN-10 14:59

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 127 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108094a

Date: 10-Jan-2010

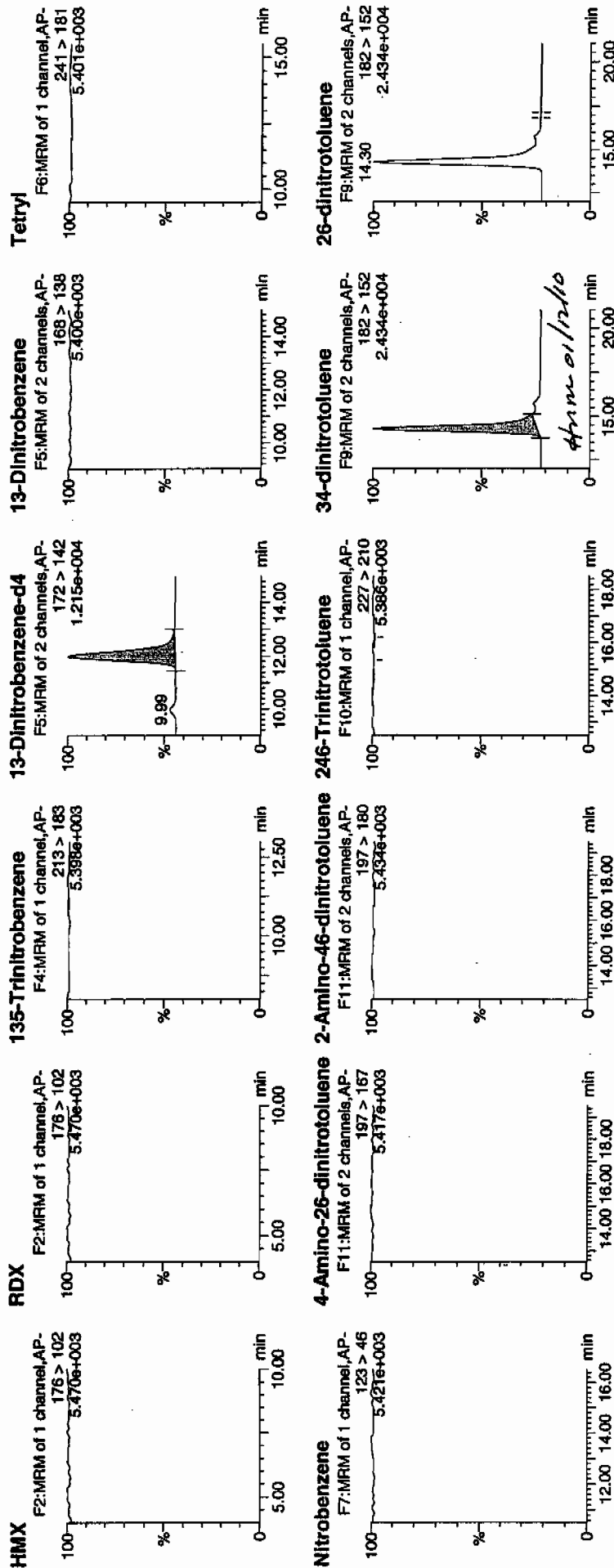
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Vial: 3:2,E

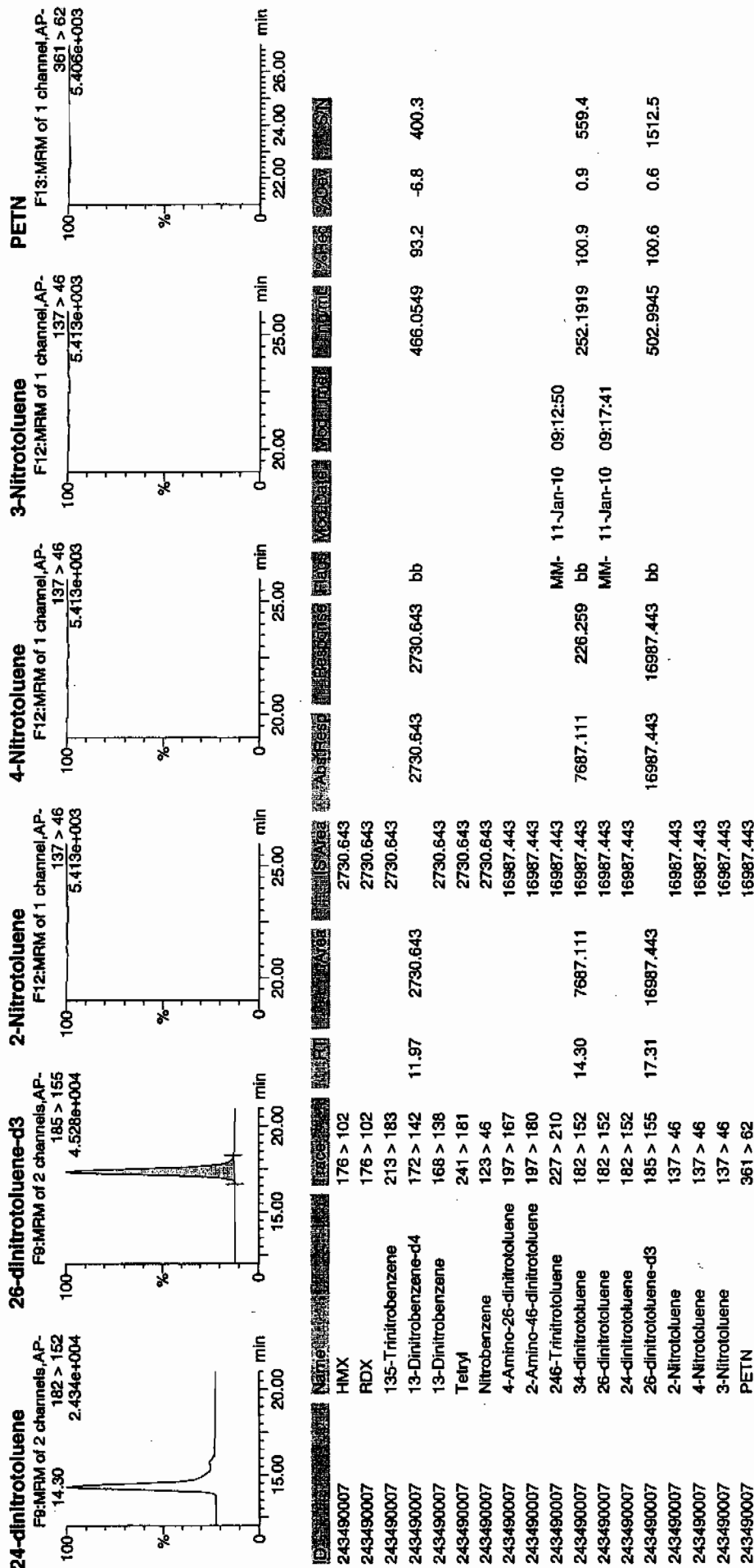
11/11/10

CAV 936820 / 8022 / 21



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7296

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 243490007

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050111.wiff

Date Analyzed: 06-JAN-10 19:24

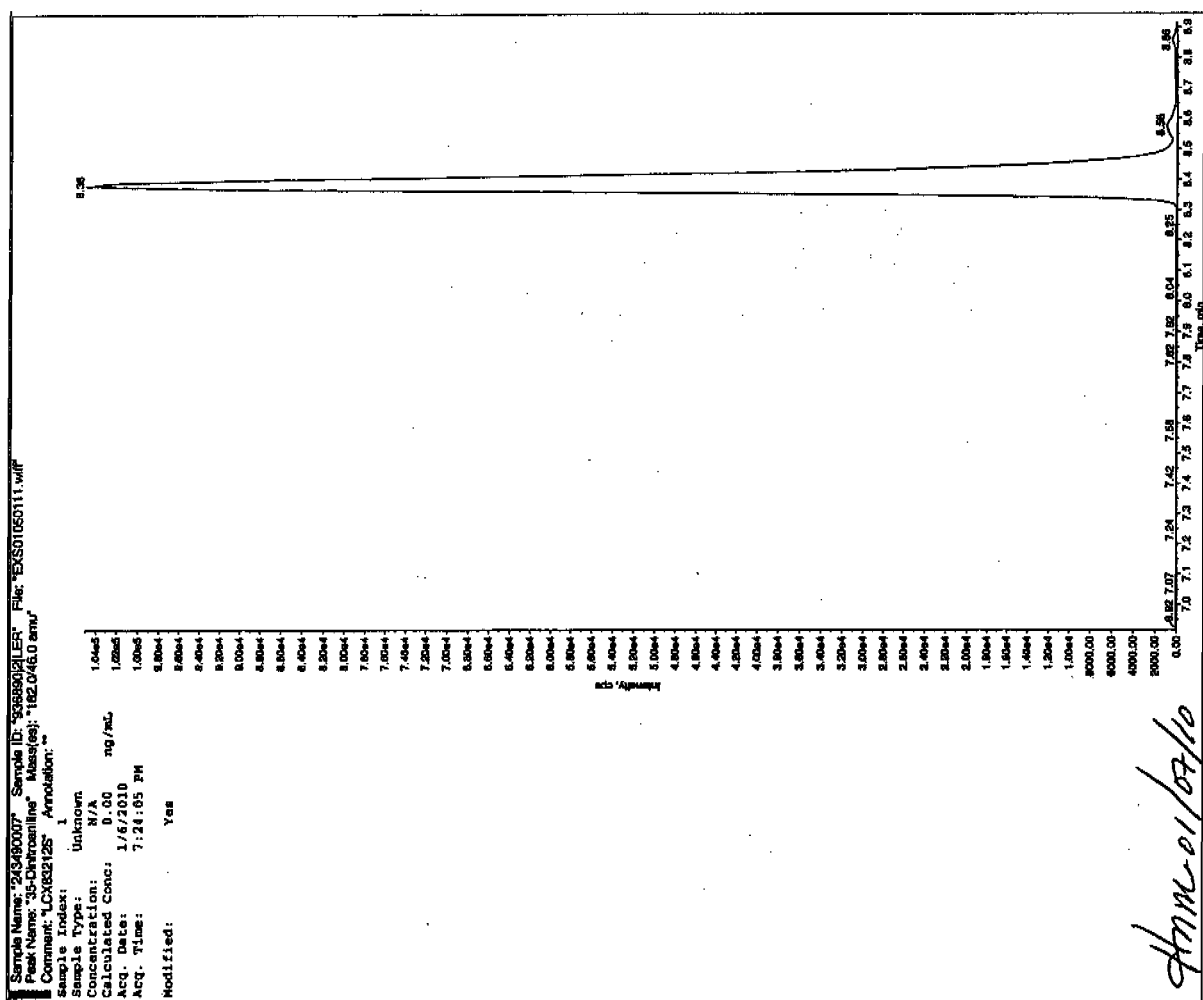
Units: ug/kg

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

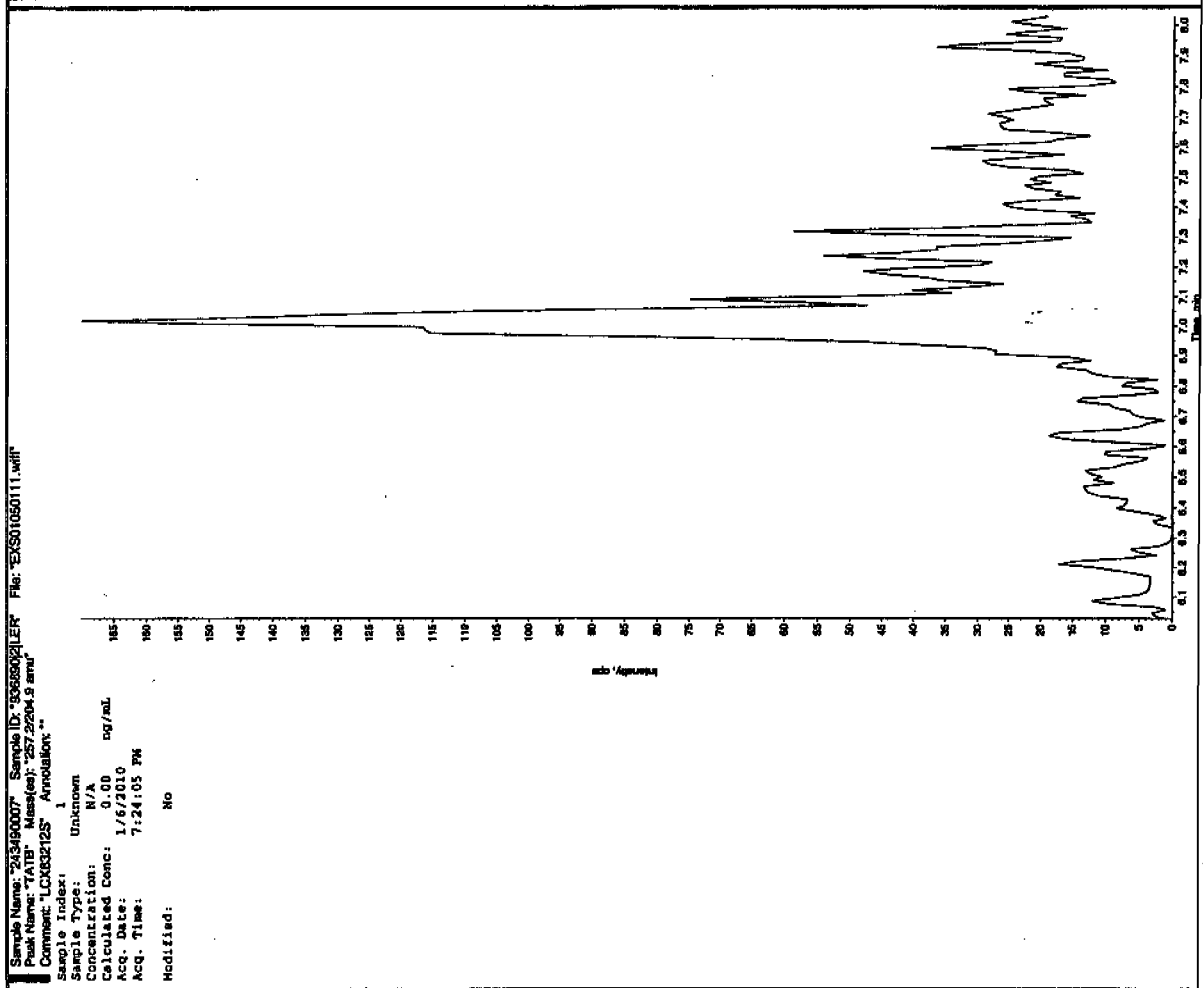
*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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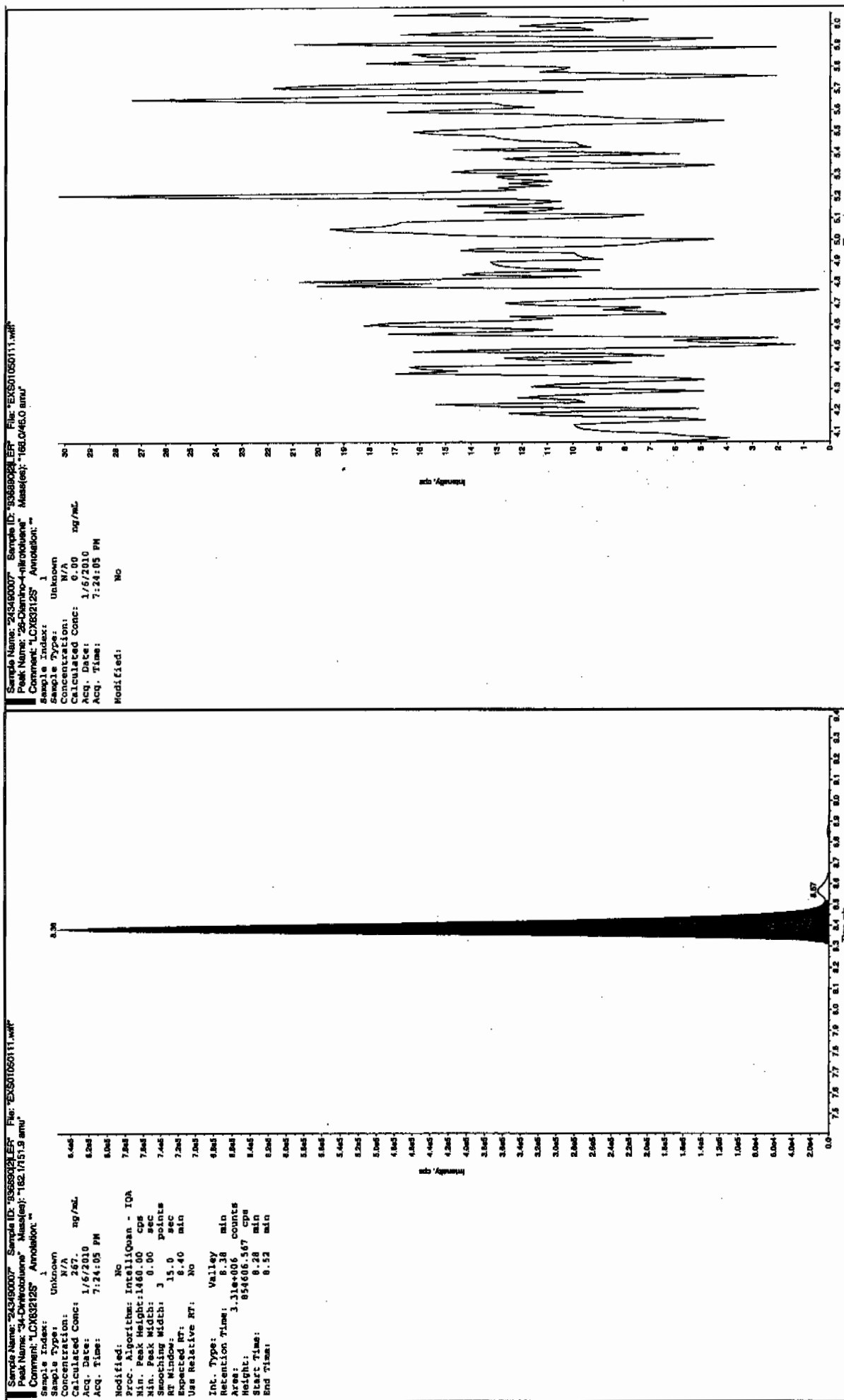
01/12/10
11/2/10



Annex 01/07/10



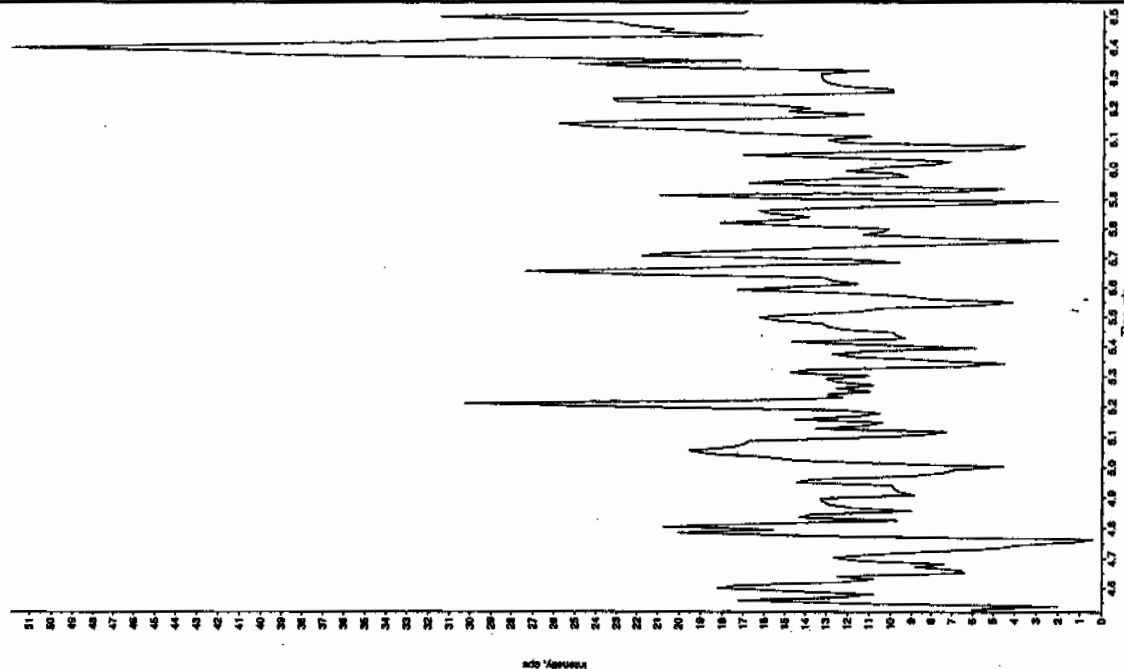
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

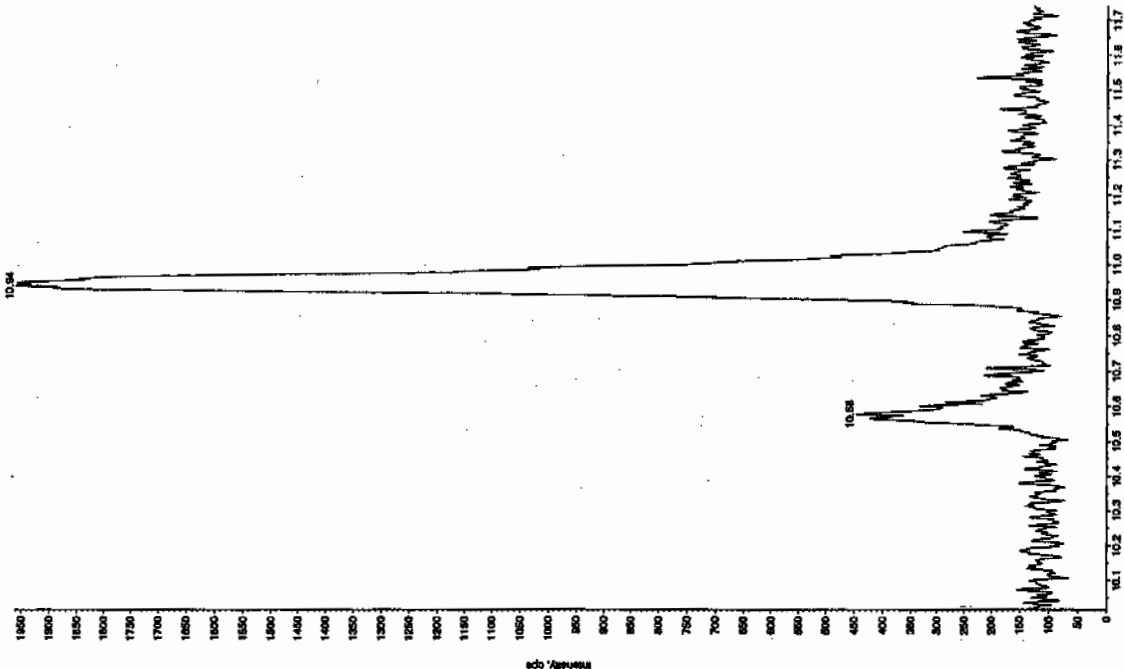
Sample Name: "243490007" Sample ID: "30688021ER" File: "EX301050111.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "168.0/46.0 amu"
 Comment: "LCX632125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:24:05 PM
 Modified: NO



Sample Name: "243490007" Sample ID: "30688021ER" File: "EX301050111.wif"
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "358.1/81.0 amu"
 Comment: "LCX632125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 7:24:05 PM
 Modified: NO



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MX	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1036

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column:

Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Calibration Level:		1	2	3	4	5	6	Ave RF	RSD	Q
Data File:		EXP0108003a	EXP0108004a	EXP0108005a	EXP0108006a	EXP0108007a	EXP0108008a			
Paramname										
1,3-Dinitrobenzene-d4	5.252	5.624	5.891	6.445	6.107	5.835	5.859	6.957		
2,4,6-Trinitrotoluene	.306	.336	.314	.327	.314	.346	0.324	4.735		
2,4-Dinitrotoluene	.243	.248	.217	.259	.232	.264	0.244	7.094		
2,6-Dinitrotoluene	1.169	1.205	1.09	1.09	1.129	1.108	1.132	4.098		
2,6-Dinitrotoluene-d3	33.895	34.7	35.72	36.984	28.747	32.59	33.773	8.544		
2-Amino-4,6-dinitrotoluene	.336	.305	.353	.41	.383	.422	0.368	12.165		
3,4-Dinitrotoluene	.929	.814	.846	.967	.885	.941	0.897	6.587		
4-Amino-2,6-dinitrotoluene	.311	.255	.243	.286	.285	.313	0.282	10.113		
HMX	2.997	3.192	3.42	3.446	3.375	3.383	3.302	5.279		
Nitrobenzene	1.095	1.158	.964	.965	.784	.952	0.986	13.189		
RDX	2.497	2.664	2.216	2.444	2.402	2.465	2.448	5.935		
Tetryl	1.384	1.231	1.057	1.039	.881	.916	1.085	17.673		
m-Dinitrobenzene	1.194	1.443	1.14	1.219	1.21	1.157	1.227	8.957		
m-Nitrotoluene	.118	.092	.104	.098	.091	.098	0.100	10.044		
o-Nitrotoluene	.163	.159	.148	.167	.155	.134	0.154	7.843		
p-Nitrotoluene	.088	.105	.072	.08	.08	.083	0.085	13.229		

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1036

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column:

Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	1	2	3	4	5	6	Slope	Intercept	COD	Q
Data File:	EXP0108003a	EXP0108004a	EXP0108005a	EXP0108006a	EXP0108007a	EXP0108008a				
Parname										
1,3,5-Trinitrobenzene	679.468	1322.77	4392.01	8767.35	17070.5	19999.8	3.457	0	.9988	
PETN	1824.72	3612.81	12304.1	21610.4	36335.8	39498.4	1.536	16.875	.9968	

Linear fit: $Y=mx +b$

where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

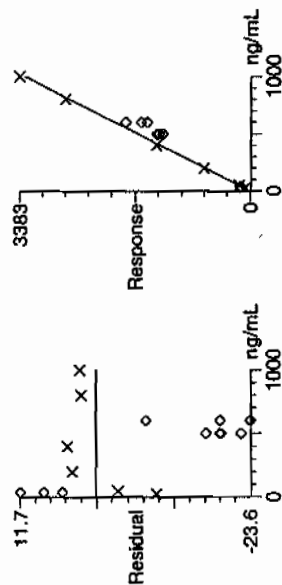
* Values outside of QC Limit

Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

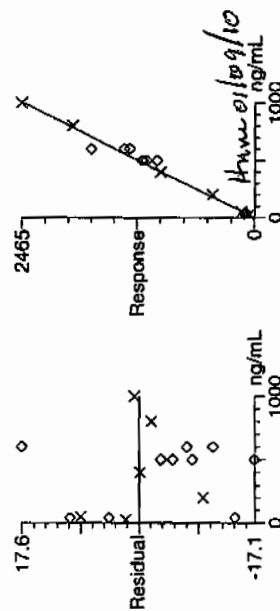
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Method: C:\MASSLYNX\New_Exp.PRO\MethDB\10810expa.mdb, Time: Sat Jan 09 11:44:31 2010
 Calibration: Untitled, Time: Sat Jan 09 12:01:37 2010

Compound name: HMX
 Response Factor: 3.30223
 RRF SD: 0.174327, % Relative SD: 5.27907
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



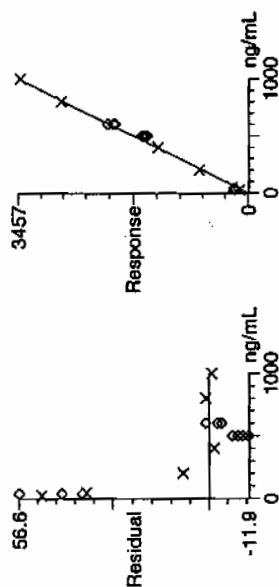
Compound name: RDX
 Response Factor: 2.44794
 RRF SD: 0.145292, % Relative SD: 5.93528
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



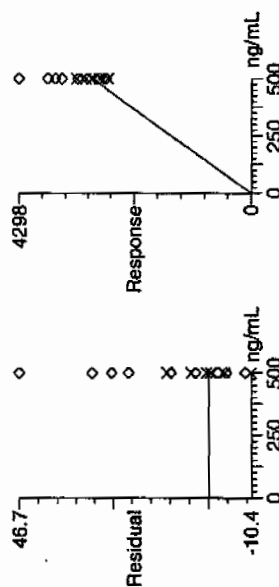
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 135-Trinitrobenzene
 Coefficient of Determination: 0.998845
 Calibration curve: $3.45704 \times X$
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Force, Weighting: Null, Axis trans: None



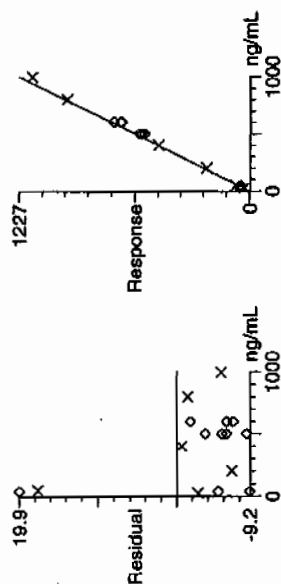
Compound name: 13-Dinitrobenzene-d4
 Response Factor: 5.85906
 RRF SD: 0.407601, % Relative SD: 6.95677
 Response type: External Std, Area
 Curve type: RF



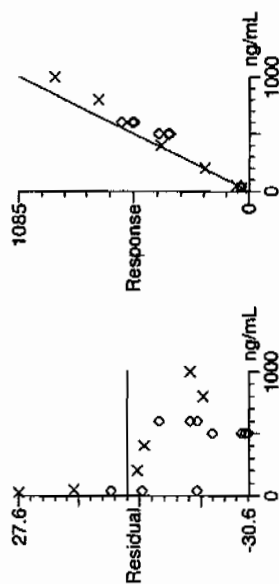
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 13-Dinitrobenzene
 Response Factor: 1.22703
 RRF SD: 0.109909, % Relative SD: 8.95735
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



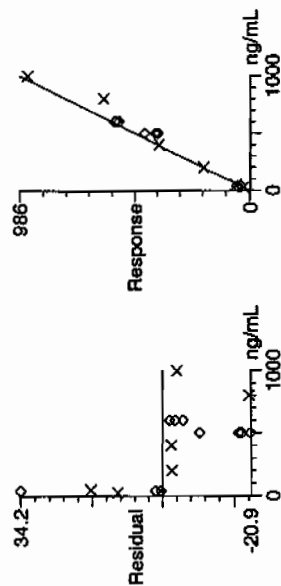
Compound name: Tetraol
 Response Factor: 1.08466
 RRF SD: 0.191688, % Relative SD: 17.6727
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



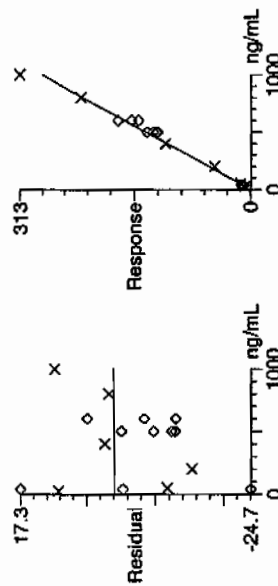
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: Nitrobenzene
 Response Factor: 0.986407
 RRF SD: 0.1301, % Relative SD: 13.1892
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



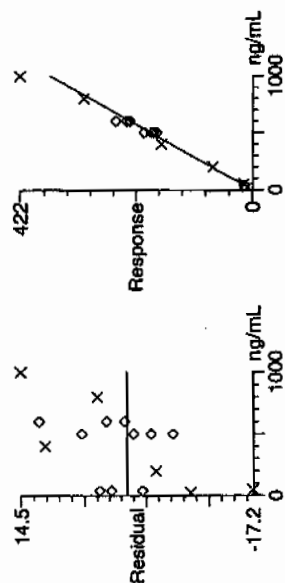
Compound name: 4-Amino-26-dinitrotoluene
 Response Factor: 0.28197
 RRF SD: 0.0285154, % Relative SD: 10.1129
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



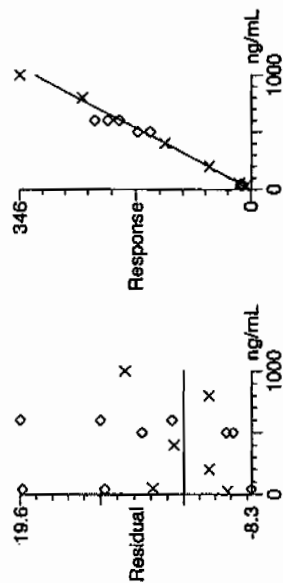
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.368254
 RRF SD: 0.047967, % Relative SD: 12.1646
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



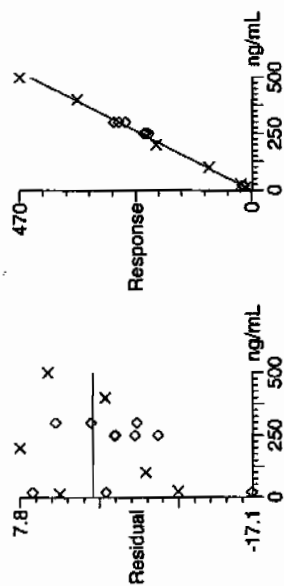
Compound name: 246-Trinitrotoluene
 Response Factor: 0.323689
 RRF SD: 0.0153263, % Relative SD: 4.73488
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



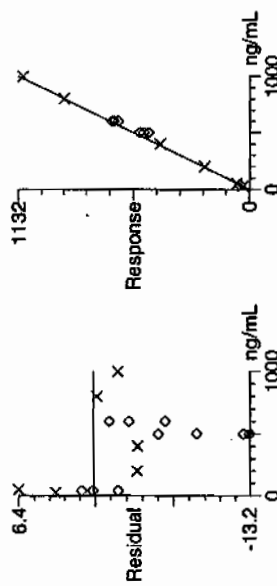
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 34-dinitrotoluene
 Response Factor: 0.897168
 RRF SD: 0.0590949, % Relative SD: 6.58682
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



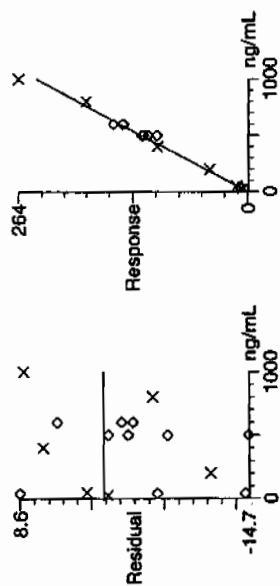
Compound name: 26-dinitrotoluene
 Response Factor: 1.13194
 RRF SD: 0.0463851, % Relative SD: 4.09785
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



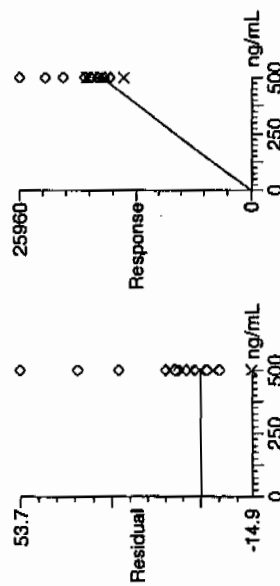
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.243856
RRF SD: 0.0172996, % Relative SD: 7.09421
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

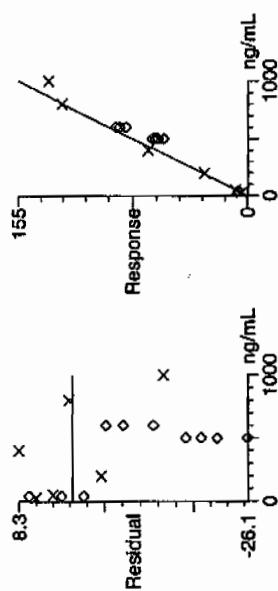


Compound name: 26-dinitrotoluene-d3
Response Factor: 33.7726
RRF SD: 2.88541, % Relative SD: 8.54363
Response type: External Std, Area
Curve type: RF

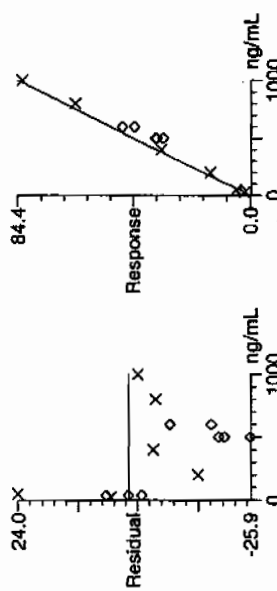


Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.154586
RRF SD: 0.0121245, % Relative SD: 7.84323
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



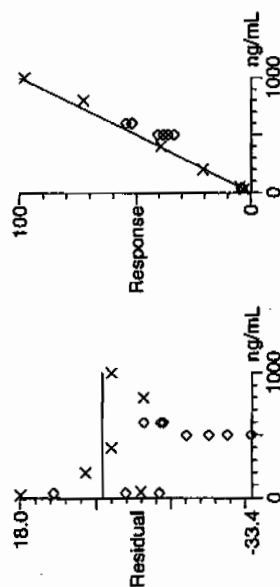
Compound name: 4-Nitrotoluene
Response Factor: 0.0844098
RRF SD: 0.0111663, % Relative SD: 13.2286
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



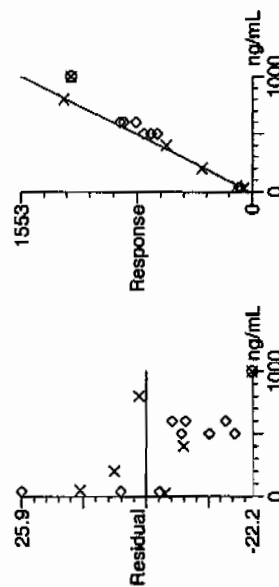
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Compound name: 3-Nitrotoluene
 Response Factor: 0.100163
 RRF SD: 0.01006, % Relative SD: 10.0436
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: PETN
 Correlation coefficient: $r = 0.998412$, $r^2 = 0.996827$
 Calibration curve: $1.53649 * x + 16.8747$
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1036Lab Code: GELGEL Sample ID: WXXICVGEL Data File EXP0108010aAnalysis Date: 08-JAN-10 21:40LCMSMS ID: 903Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	488.896	98	
2,4,6-Trinitrotoluene	600	658.712	110	
2,4-Dinitrotoluene	600	582.225	97	
2,6-Dinitrotoluene	600	581.833	97	
2,6-Dinitrotoluene-d3	500	490.316	98	
2-Amino-4,6-dinitrotoluene	600	617.209	103	
3,4-Dinitrotoluene	300	311.903	104	
4-Amino-2,6-dinitrotoluene	600	567.423	95	
HMX	600	485.93	81	
Nitrobenzene	600	589.772	98	
PETN	600	568.486	95	
RDX	600	557.415	93	
Tetryl	600	496.018	83	
m-Dinitrobenzene	600	561.696	94	
m-Nitrotoluene	600	518.123	86	
o-Nitrotoluene	600	554.614	92	
p-Nitrotoluene	600	547.059	91	
1,3,5-Trinitrobenzene	600	584.535	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Jan 09 12:02:23 2010, Page 19 of 61

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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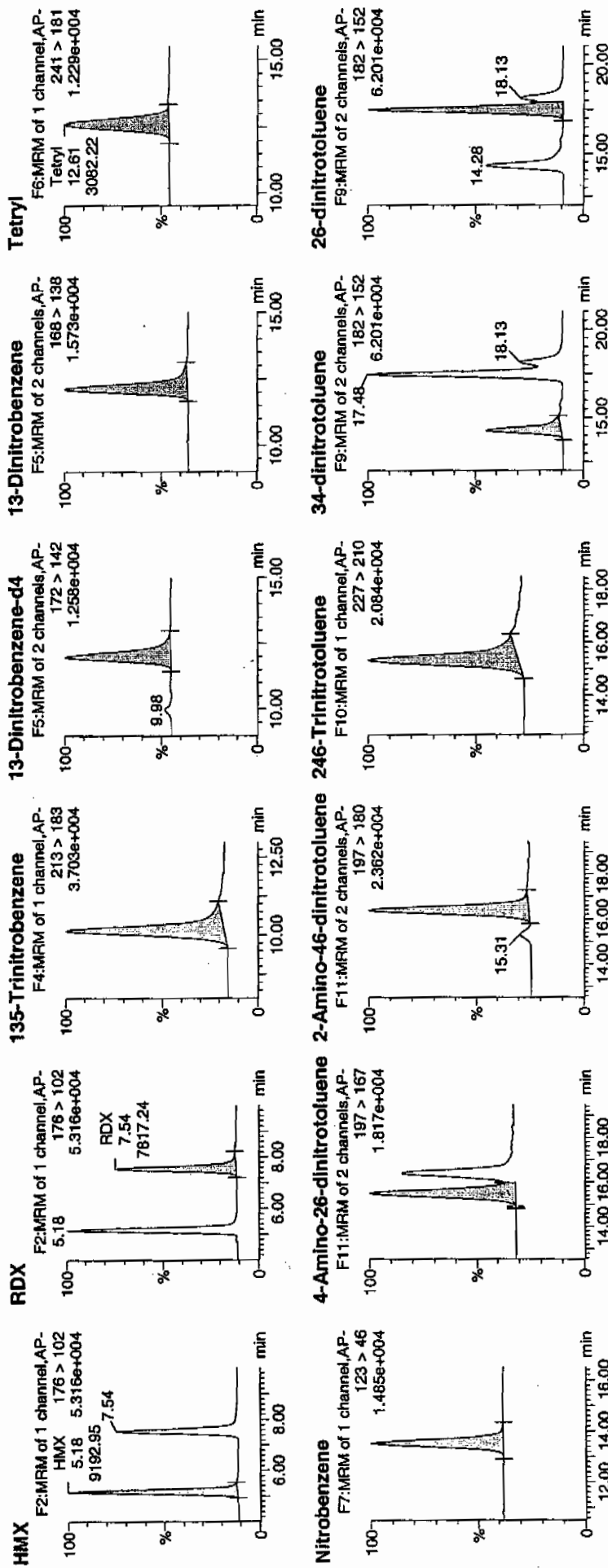
Date: 08-Jan-2010

Time: 21:40:39

ID: WXX100108-07ICV

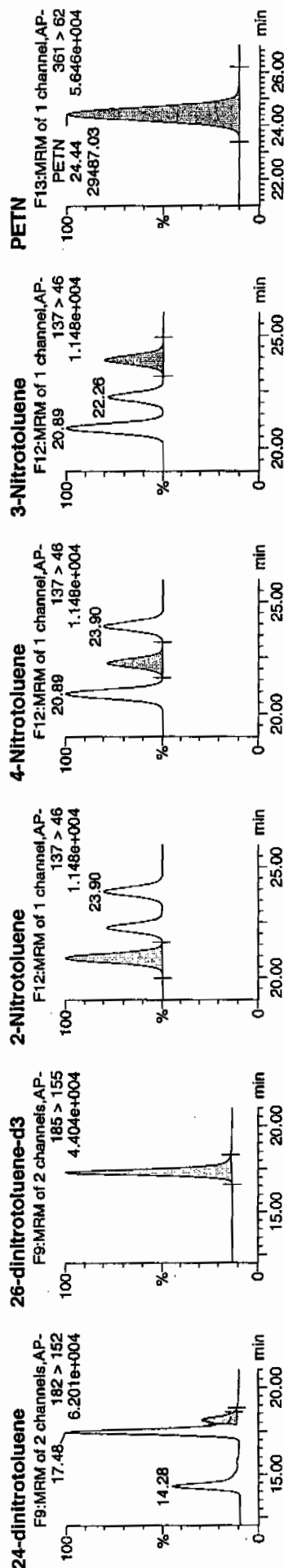
Vial: 1:1,B

Handwritten: 1/6/10



Handwritten: 1/6/10

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



ID	Name	Trace	RT	Area	US Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int (mL)	% Recd	% Dev	SN
WXX100108-07ICV	HMx	176 > 102	5.18	9192.949	2864.473	9192.949	1604.649	bb			485.9295	81.0	-19.0	678.1
WXX100108-07ICV	RDX	176 > 102	7.54	7817.238	2864.473	7817.238	1364.516	bb			557.4148	92.9	-7.1	483.5
WXX100108-07ICV	135-Trinitrobenzene	213 > 183	10.14	11576.834	2864.473	11576.834	2020.762	bb			584.5347	97.4	-2.6	2166.6
WXX100108-07ICV	13-Dinitrobenzene-d4	172 > 142	12.00	2864.473		2864.473	2864.473	bb			488.8965	97.8	-2.2	330.6
WXX100108-07ICV	13-Dinitrobenzene	168 > 138	12.13	3948.479	2864.473	3948.479	689.216	bb			561.6957	93.6	-6.4	340.9
WXX100108-07ICV	Tetryl	241 > 181	12.61	3082.225	2864.473	3082.225	538.009	bb			496.0180	82.7	-17.3	472.4
WXX100108-07ICV	Nitrobenzene	123 > 46	13.53	3332.844	2864.473	3332.844	581.755	bb			589.7718	98.3	-1.7	346.2
WXX100108-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.52	5298.829	16559.242	5298.829	159.995	MM	09-Jan-10	11:51:53	567.4228	94.6	-5.4	141.0
WXX100108-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.39	7527.482	16559.242	7527.482	227.289	bb			617.2090	102.9	2.9	433.4
WXX100108-07ICV	246-Trinitrotoluene	227 > 210	15.33	7061.455	16559.242	7061.455	213.218	bb			658.7117	109.8	9.8	310.2
WXX100108-07ICV	34-dinitrotoluene	182 > 152	14.28	9267.540	16559.242	9267.540	279.830	bb			311.9034	104.0	4.0	380.2
WXX100108-07ICV	26-dinitrotoluene	182 > 152	17.48	21811.785	16559.242	21811.785	658.599	MM	09-Jan-10	11:55:01	581.8326	97.0	-3.0	977.5
WXX100108-07ICV	24-dinitrotoluene	182 > 152	18.13	4702.128	16559.242	4702.128	141.979	MM	09-Jan-10	11:57:47	582.2248	97.0	-3.0	196.0
WXX100108-07ICV	26-dinitrotoluene-d3	185 > 155	17.30	16559.242		16559.242	16559.242	bb			490.3156	98.1	-1.9	1245.2
WXX100108-07ICV	2-Nitrotoluene	137 > 46	20.89	2839.428	16559.242	2839.428	85.735	bb			554.6143	92.4	-7.6	175.0
WXX100108-07ICV	4-Nitrotoluene	137 > 46	22.26	1529.316	16559.242	1529.316	46.177	bb			547.0588	91.2	-8.8	98.9
WXX100108-07ICV	3-Nitrotoluene	137 > 46	23.90	1718.746	16559.242	1718.746	51.897	bb			518.1228	86.4	-13.6	105.2
WXX100108-07ICV	PETN	361 > 62	24.44	29487.029	16559.242	29487.029	890.350	bb			568.4859	94.7	-5.3	6819.5

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/08/10
 Time of Injection: 2140
 Standard Number: WXX100108-07ICV
 Data File: EXP0108010a

HMX	81.0
RDX	92.9
135-TNB	97.4
13-DNB	93.6
Tetryl	82.7
Nitrobenzene	98.3
4A-26-DNT	94.6
2A-46-DNT	102.9
246-TNT	109.8
34-DNT(surr)	104.0
26-DNT	97.0
24-DNT	97.0
2-NT	92.4
4-NT	91.2
3-NT	86.4
PETN	94.7

Total 1515.9

Average 94.7

1/9/10

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ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Form 6

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1036

Lab Code: GEL

Run Date: 05-JAN-10.08-JAN-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column:

YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS01050003.wiff	EXS01050004.wiff	EXS01050005.wiff	EXS01050006.wiff	EXS01050007.wiff	EXS01050008.wiff	EXS01050009.wiff					
Parname:												
2,4-Diamino-6-nitrotoluene	119000	240000	570000	1160000	1580000	2320000	4580000	14300	2190	.045	.9995	
2,6-Diamino-4-nitrotoluene	167000	321000	888000	1630000	2510000	3420000	6300000	-30400	3590	-.207	.9997	
3,4-Dinitrotoluene	288000	581000	1500000	2870000	4340000	5830000	10300000	-99000	13700	-3.22	.9988	
3,5-Dinitroaniline	438000	907000	2250000	4080000	6180000	7980000	13400000	-15600	9130	-1.2	.9999	
TATB	66800	138000	345000	682000	998000	1360000	2570000	-4460	1410	-.059	.9999	
tris(o-cresyl) phosphate	1220000	2460000	6050000	11400000	16000000	20200000	31700000	80200	24600	-4.39	1	

Quadratic Fit: $y = Ax^2 + Bx + C$ where X^2 column above is coefficient A

X column above is coefficient B

intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.999)

* Values outside of QC Limit

010510ICAL

Peak Name: TATB
 No Internal Standard
 Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-4.46e+003			
a1	1.41e+003			
a2	-0.0594			
Correlation coefficient 0.9999				
Use Area				

Peak Name: 35-Dinitroaniline
 No Internal Standard
 Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.56e+004			
a1	9.13e+003			
a2	-1.2			
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	-9.9e+004			
a1	1.37e+004			
a2	-3.22			
Correlation coefficient 0.9988				
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	-3.04e+004			
a1	3.59e+003			
a2	-0.207			
Correlation coefficient 0.9997				
Use Area				

Page 1

Don't
01/11/10

Don't
01/11/10

010510ICAL

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

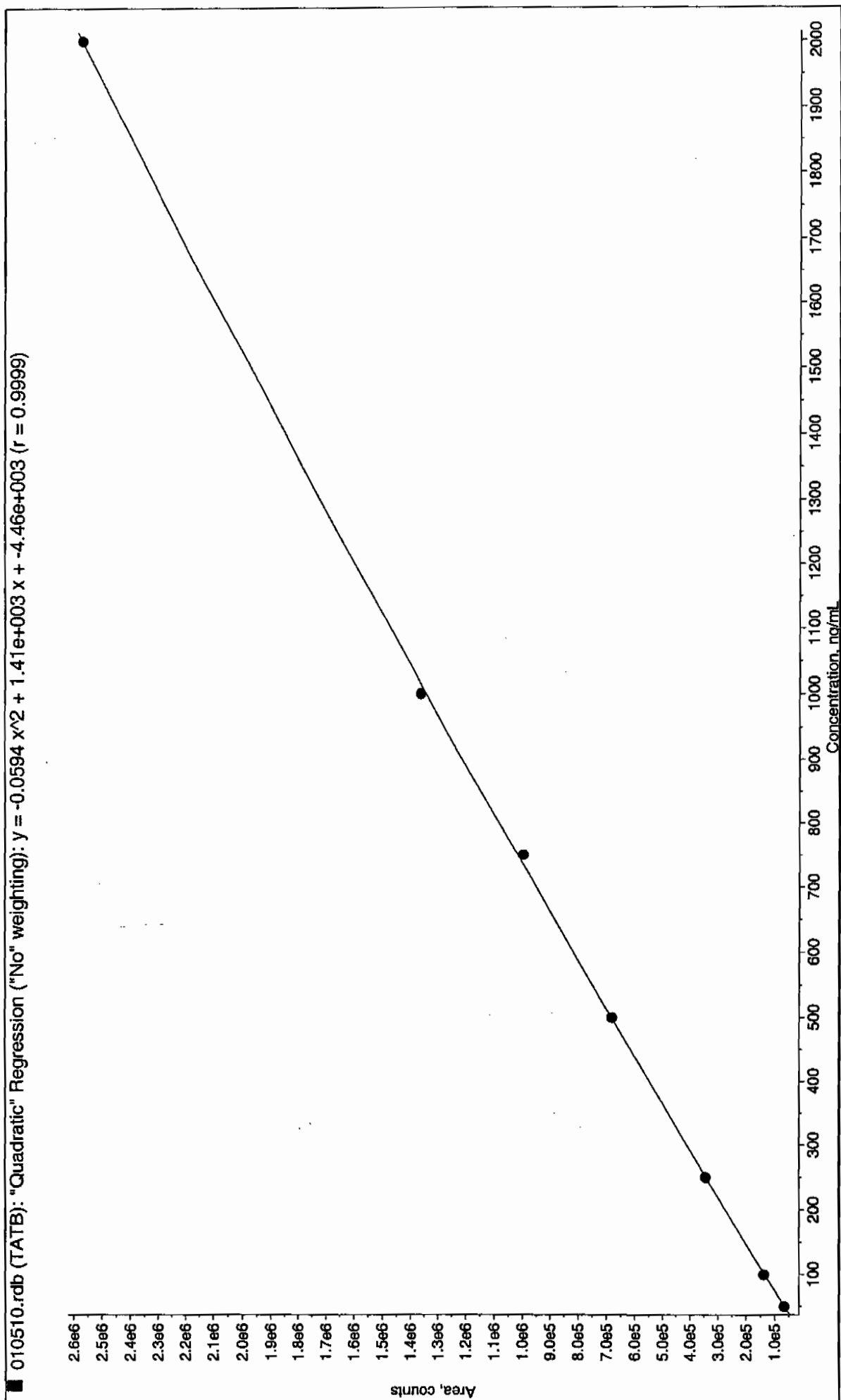
Fit	Quadratic	Weighting	None	Iterate No
a0	1.43e+004			
a1	2.19e+003			
a2	0.0451			

Correlation coefficient 0.9995
Use Area

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

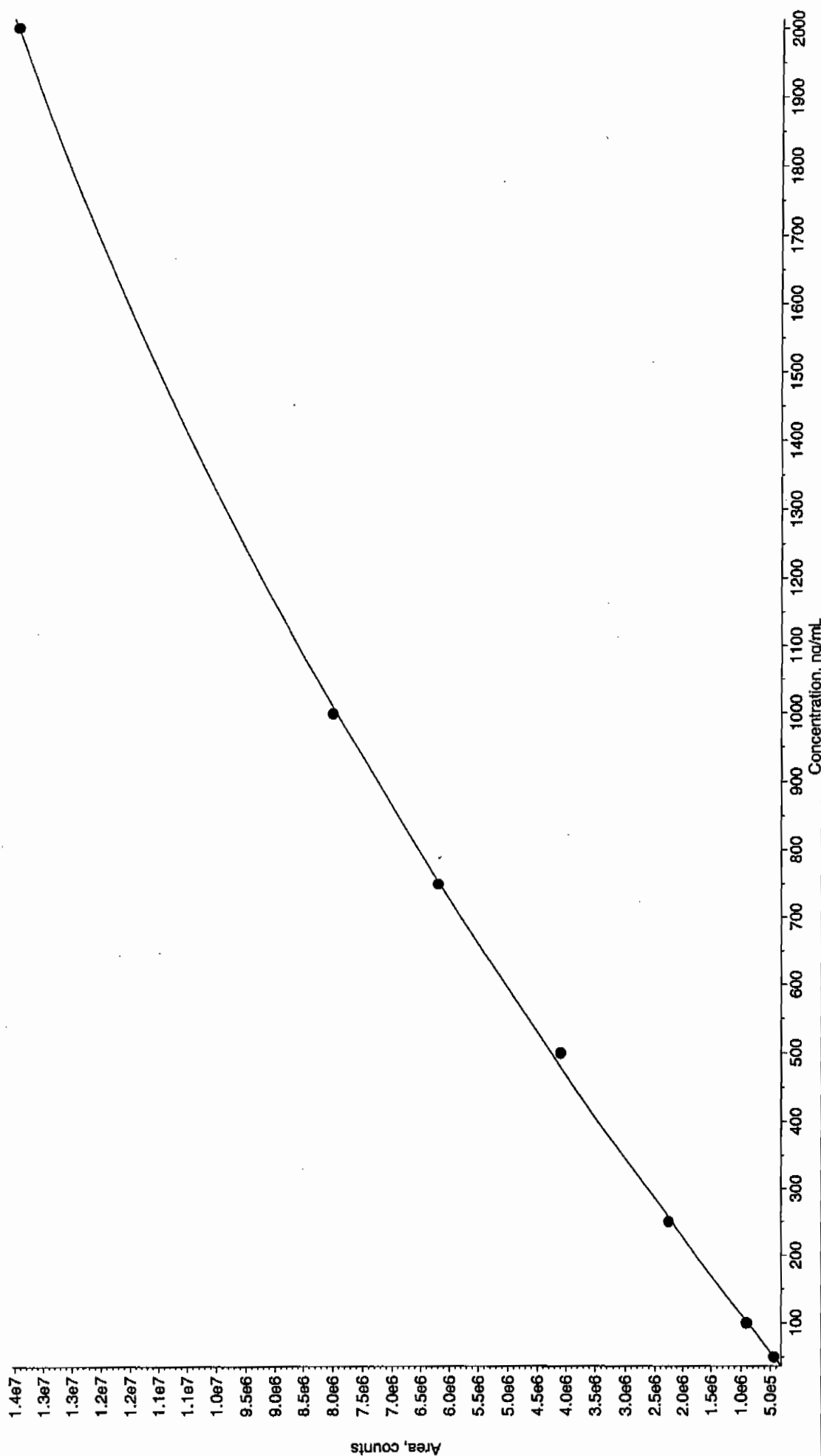
Fit	Quadratic	Weighting	None	Iterate No
a0	8.02e+004			
a1	2.46e+004			
a2	-4.39			

Correlation coefficient 1.0000
Use Area

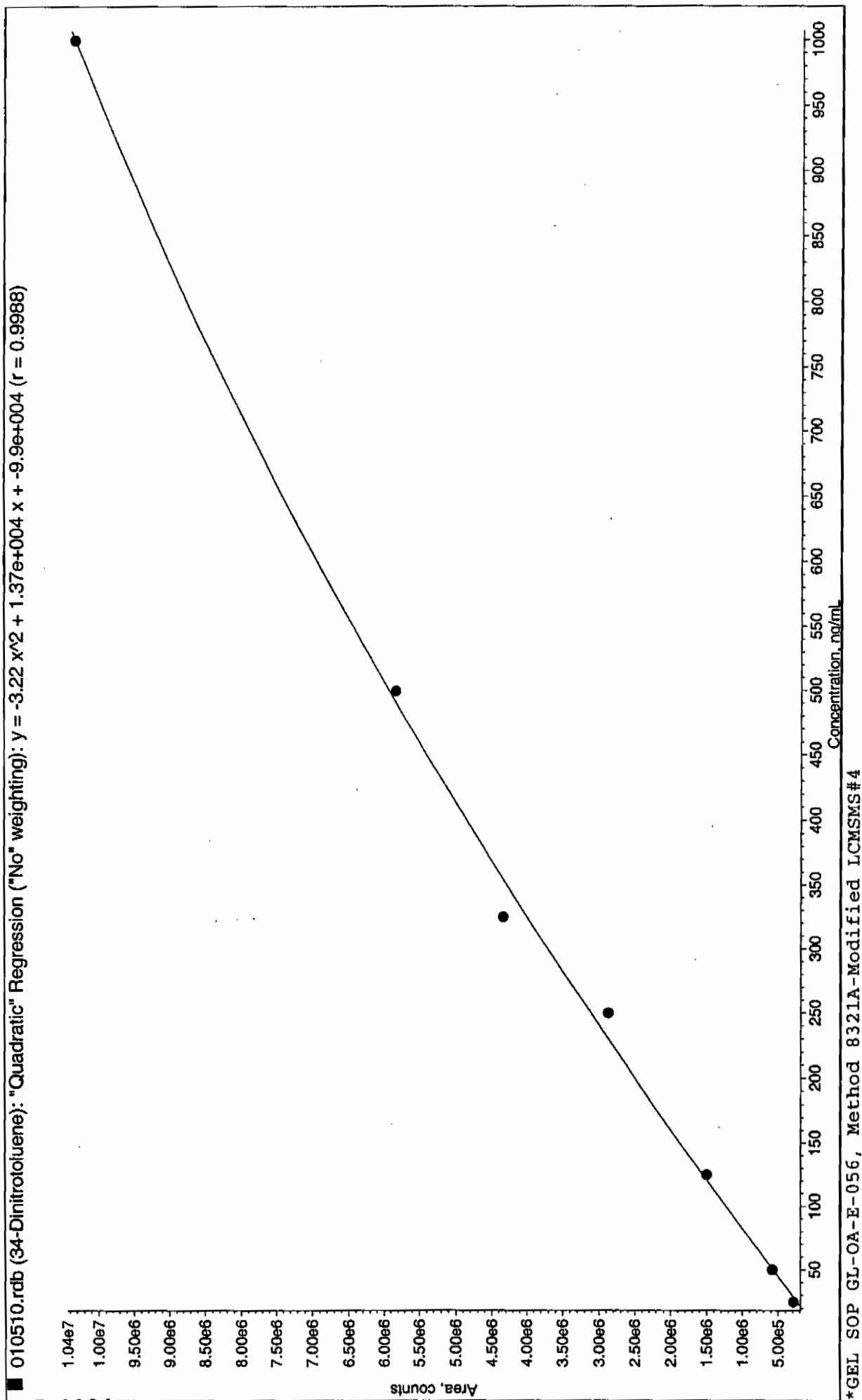


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

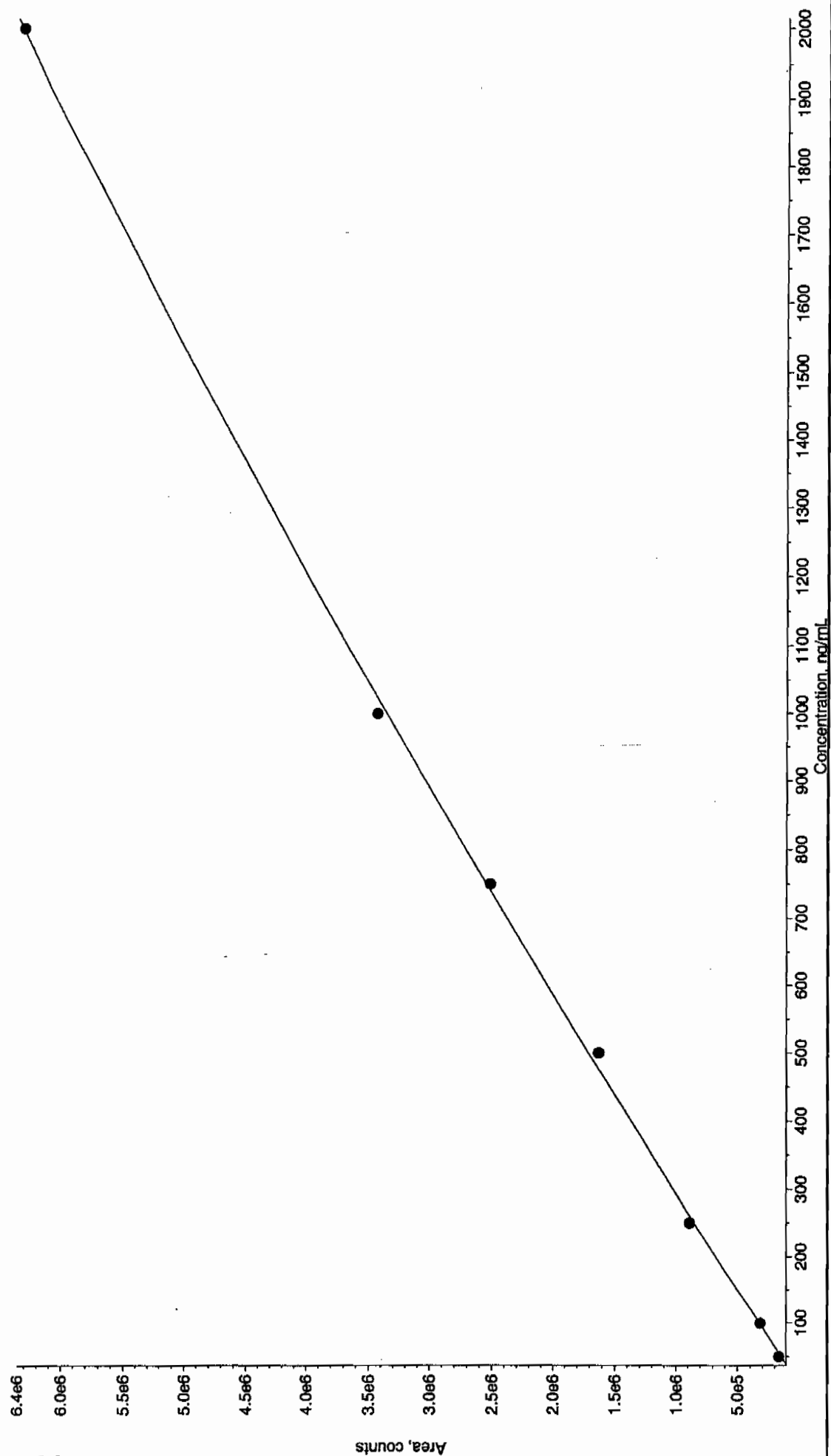
010510.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.2 \times 10^{-2} x^2 + 9.13 \times 10^{-3} x + -1.56 \times 10^4$ ($r = 0.9999$)



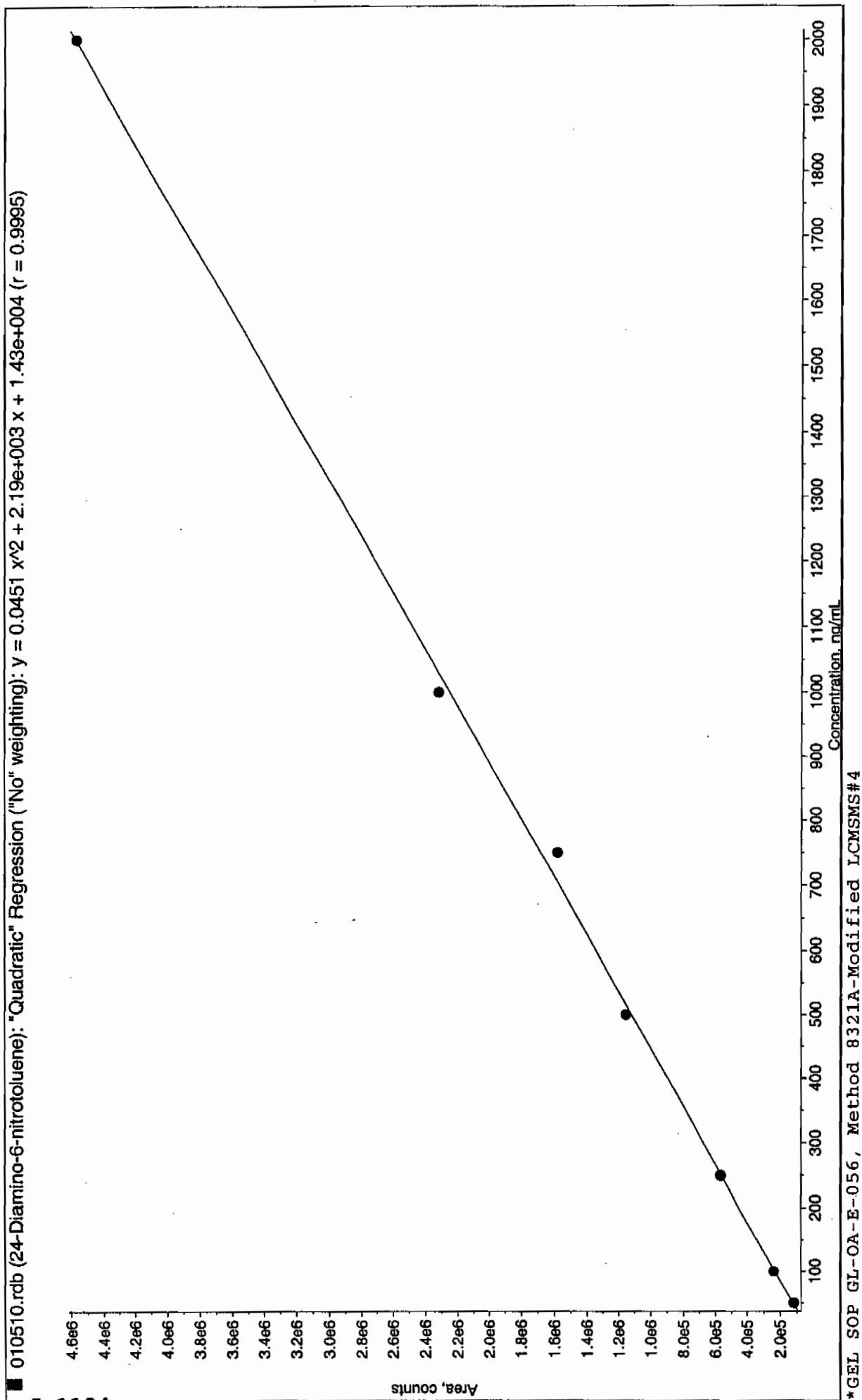
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

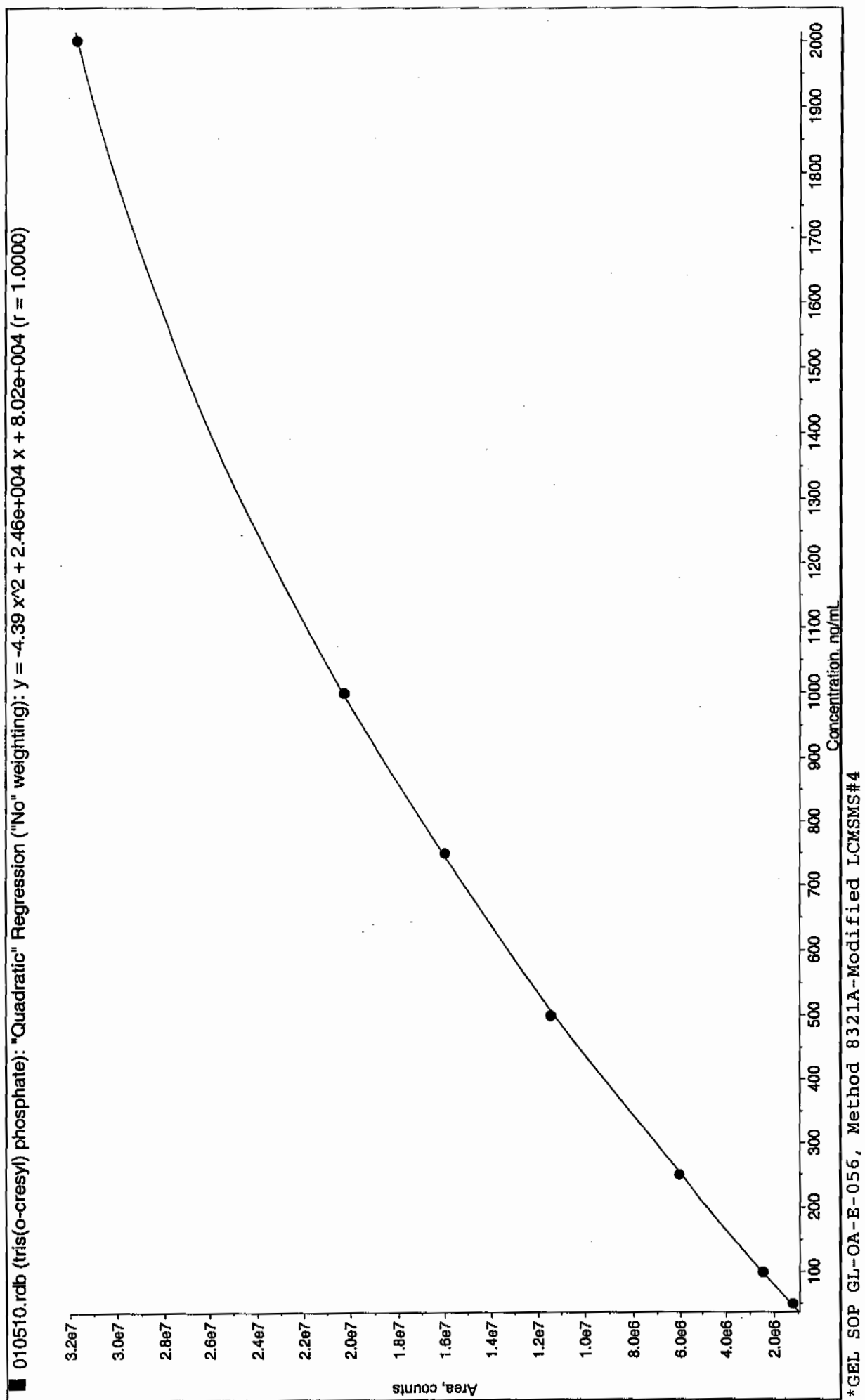


010510.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.207 x^2 + 3.59e+003 x + -3.04e+004$ ($r = 0.9997$)



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4





Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1036Lab Code: GELGEL Sample ID: WXXICVGEL Data File EXS01050011.wiffAnalysis Date: 05-JAN-10 17:07LCMSMS ID: 1358Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	512	102	
2,6-Diamino-4-nitrotoluene	500	553	111	
3,4-Dinitrotoluene	250	225	90	
3,5-Dinitroaniline	500	509	102	
TATB	500	514	103	
tris(o-cresyl) phosphate	500	481	96	

Recovery Limits:

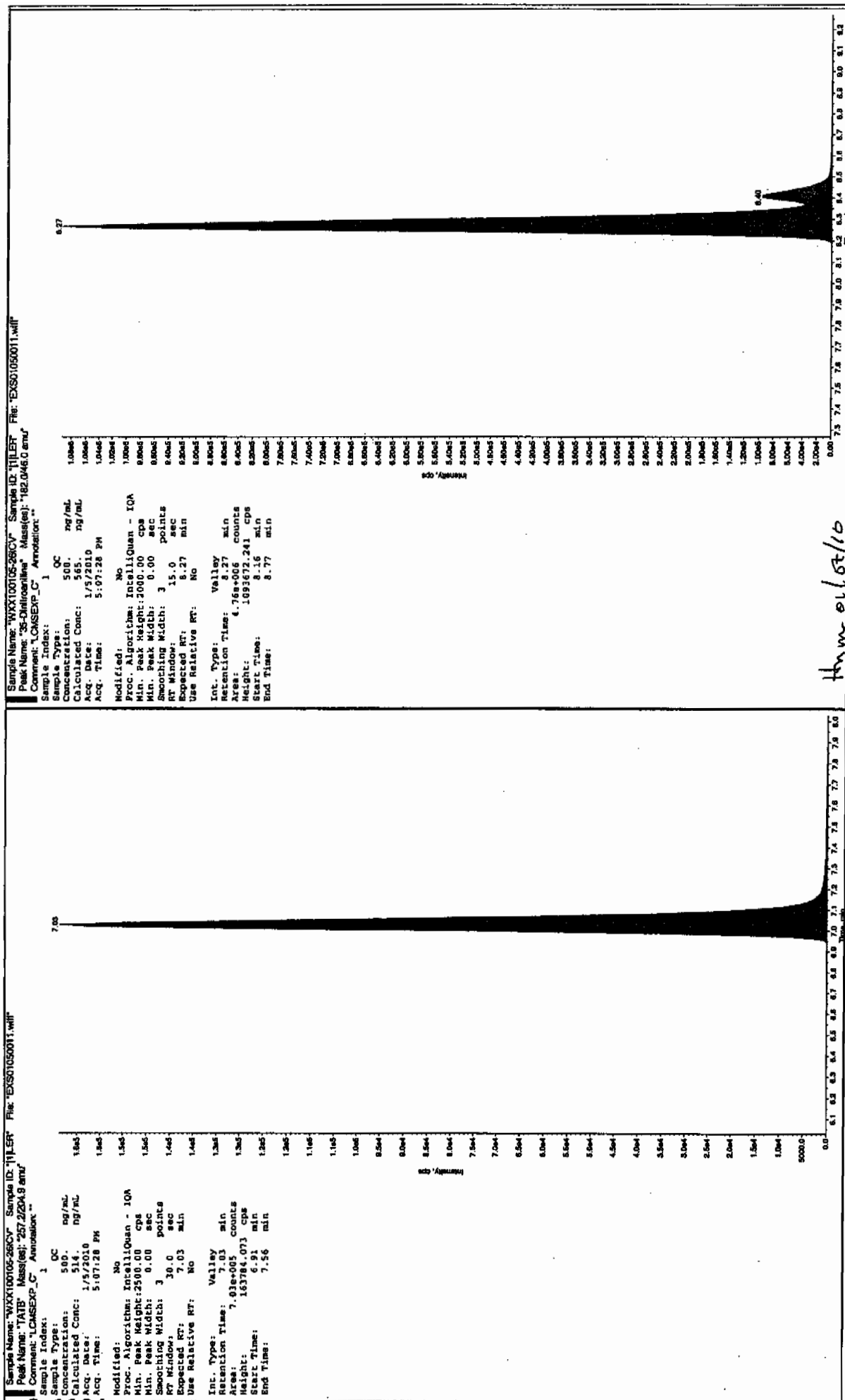
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

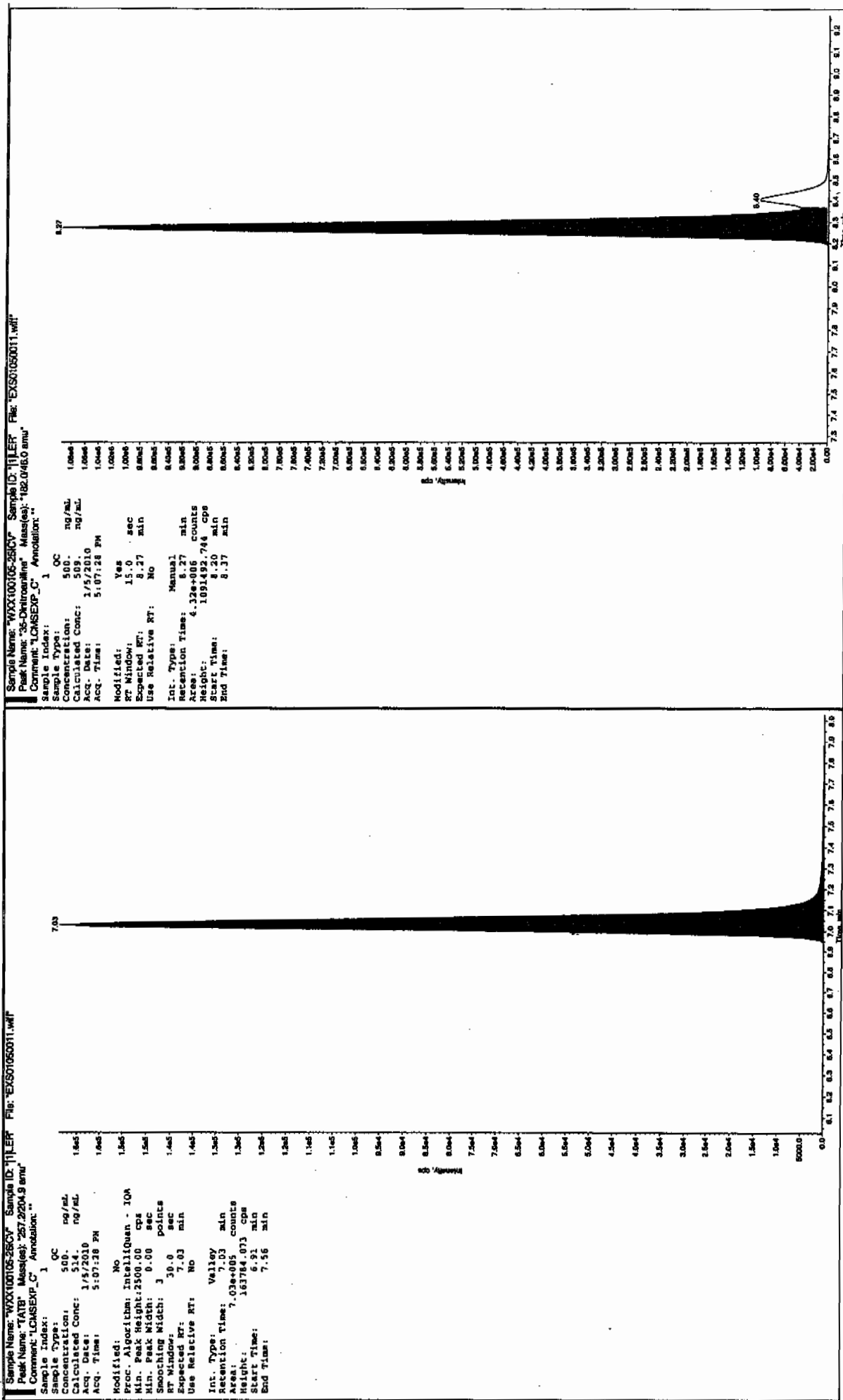
11/11/10
for
2010



Time 8.16/8.77

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

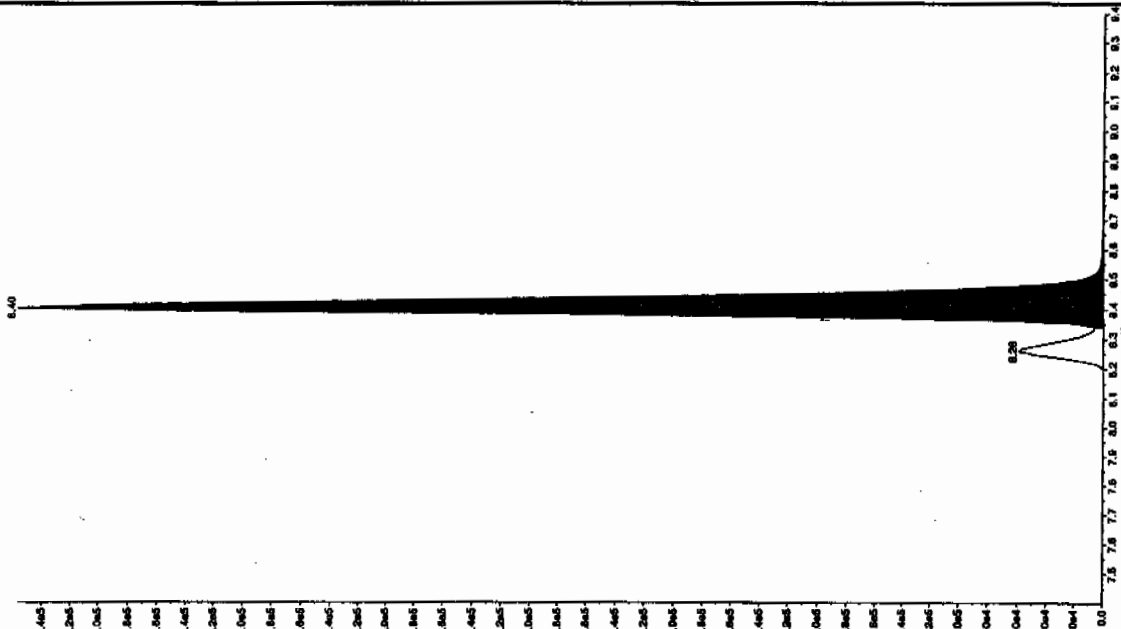
01/17/10
J. H. H. H. H.



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

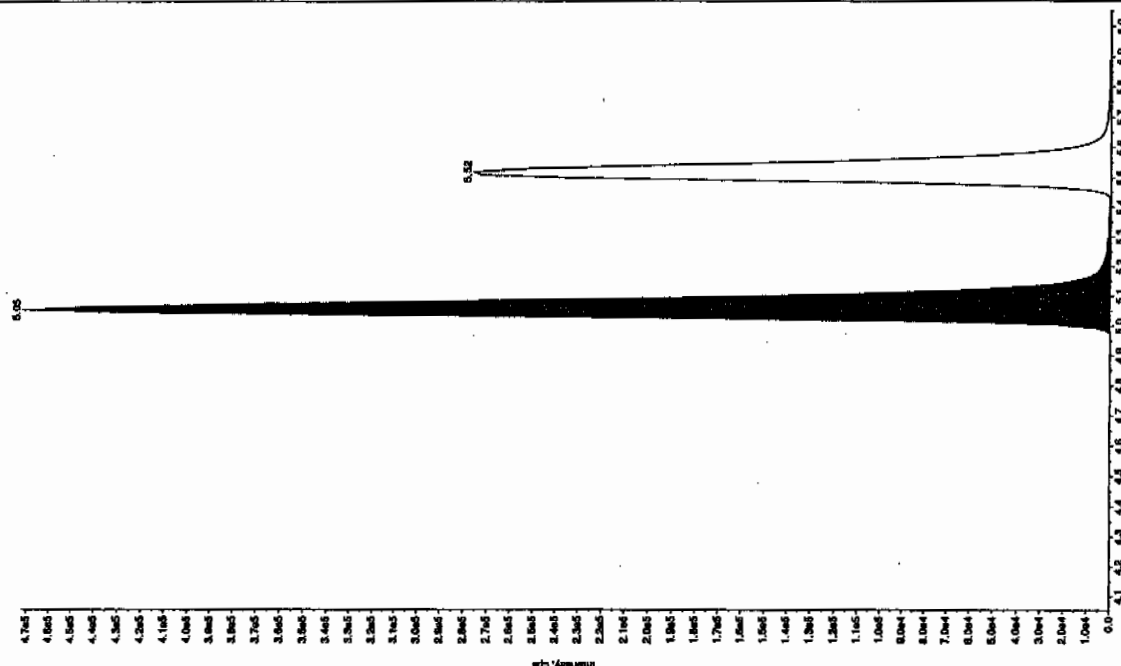
Sample Name: "WXX100105-280V" Sample ID: "11LRF" File: "EXS01060011.wif"
 Peak Name: "2,4-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 553.0 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 5:07:28 PM
 Acq. Time: 5:07:28 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 2.81e+006 counts
 Height: 756854.858 cps
 Start Time: 8.34 min
 End Time: 8.73 min

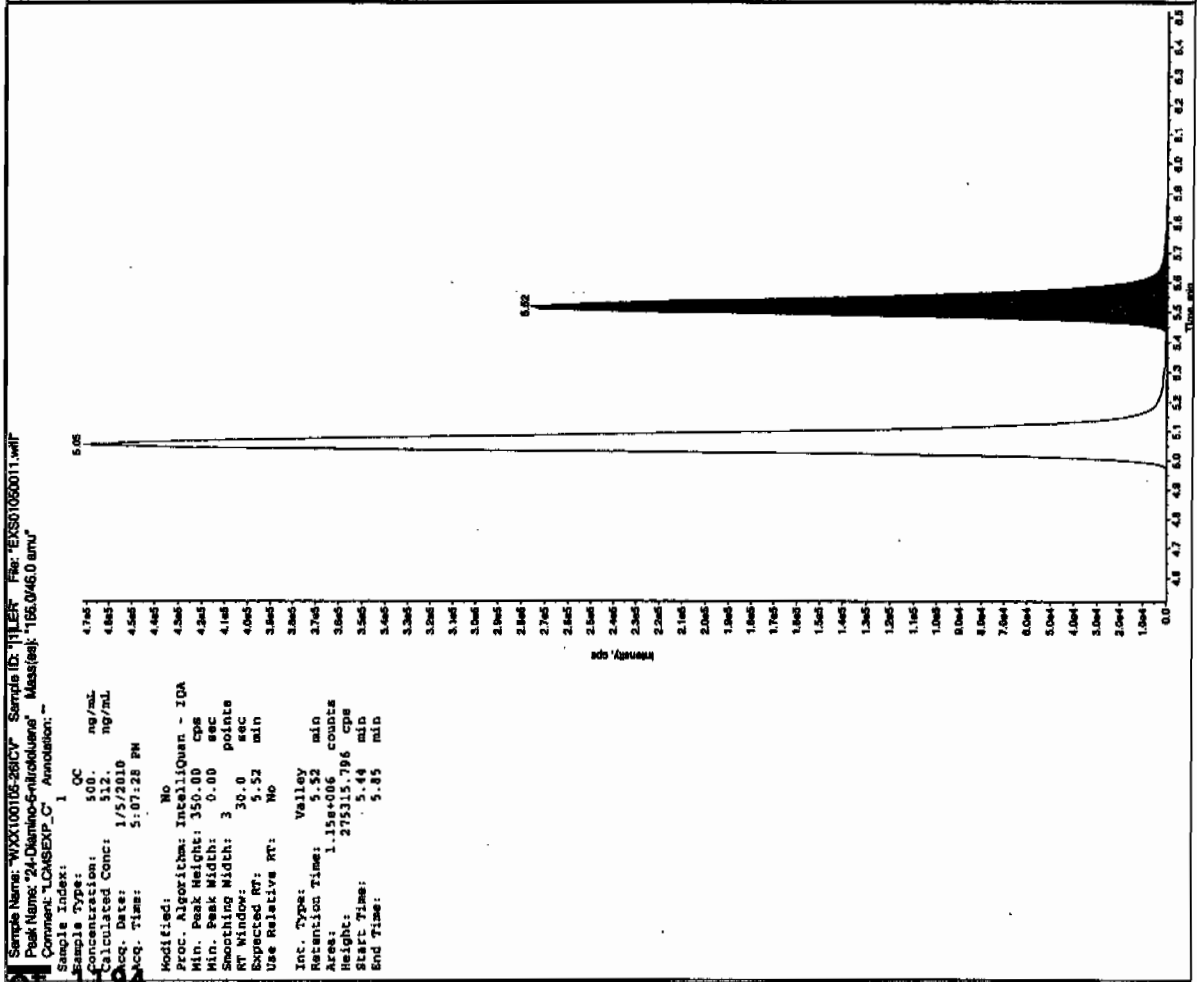
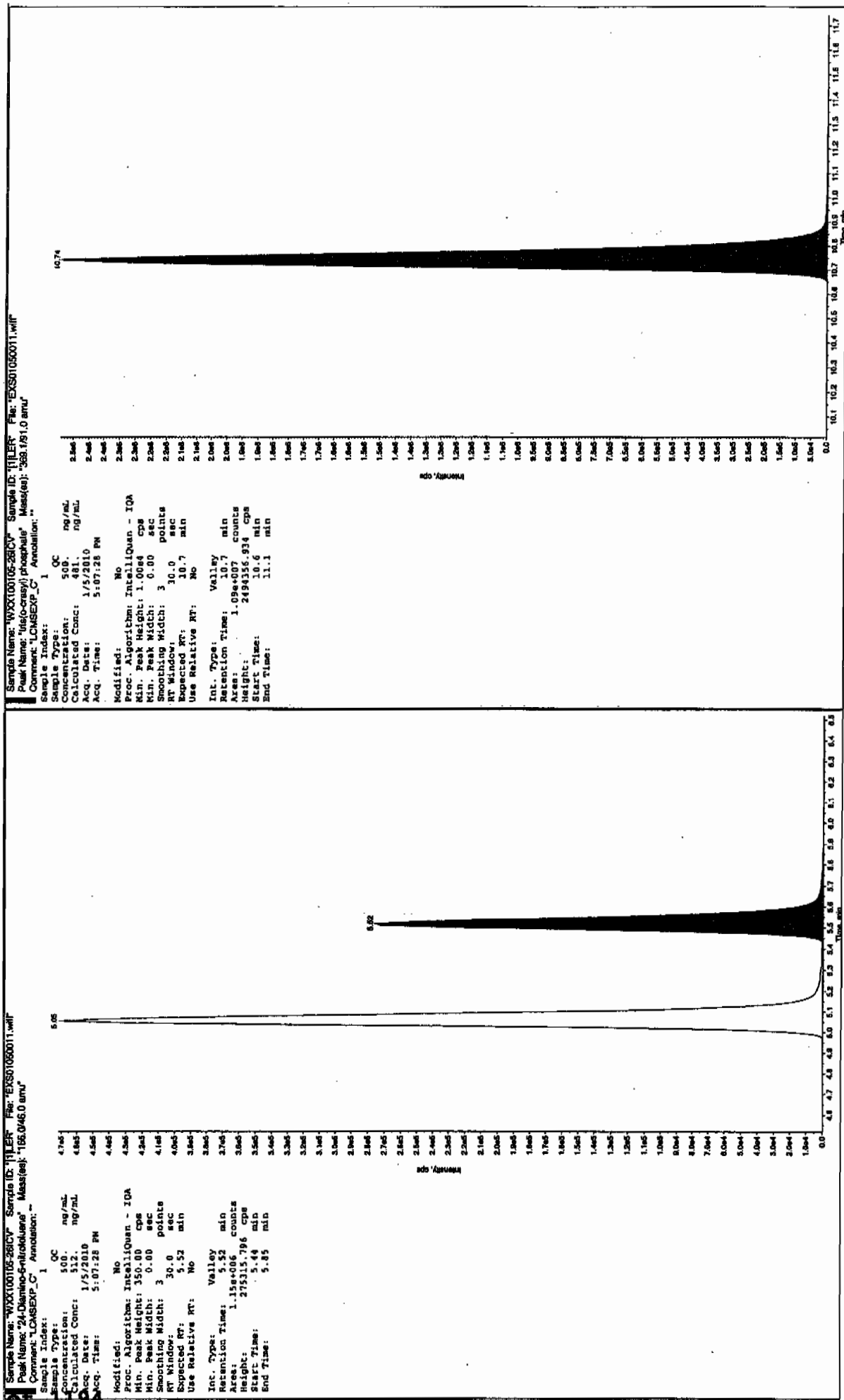


Sample Name: "WXX100105-280V" Sample ID: "11LRF" File: "EXS01060011.wif"
 Peak Name: "2,4-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 553.0 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 5:07:28 PM
 Acq. Time: 5:07:28 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.05 min
 Area: 1.89e+006 counts
 Height: 471733.917 cps
 Start Time: 4.96 min
 End Time: 5.35 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108012a

Analysis Date: 08-JAN-10 22:39

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	40	34.339	86	
Tetryl	40	33.119	83	
m-Dinitrobenzene	40	47.97	120	
m-Nitrotoluene	40	44.301	111	
o-Nitrotoluene	40	42.717	107	
p-Nitrotoluene	40	40.049	100	
1,3,5-Trinitrobenzene	40	62.632	157	*
1,3-Dinitrobenzene-d4	500	454.977	91	
2,4,6-Trinitrotoluene	40	36.667	92	
2,4-Dinitrotoluene	40	34.288	86	
2,6-Dinitrotoluene	40	40.401	101	
2,6-Dinitrotoluene-d3	500	509.639	102	
2-Amino-4,6-dinitrotoluene	40	40.883	102	
3,4-Dinitrotoluene	20	16.575	83	
4-Amino-2,6-dinitrotoluene	40	30.131	75	
HMX	40	42.046	105	
Nitrobenzene	40	53.695	134	*
PETN	40	42.102	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108012a

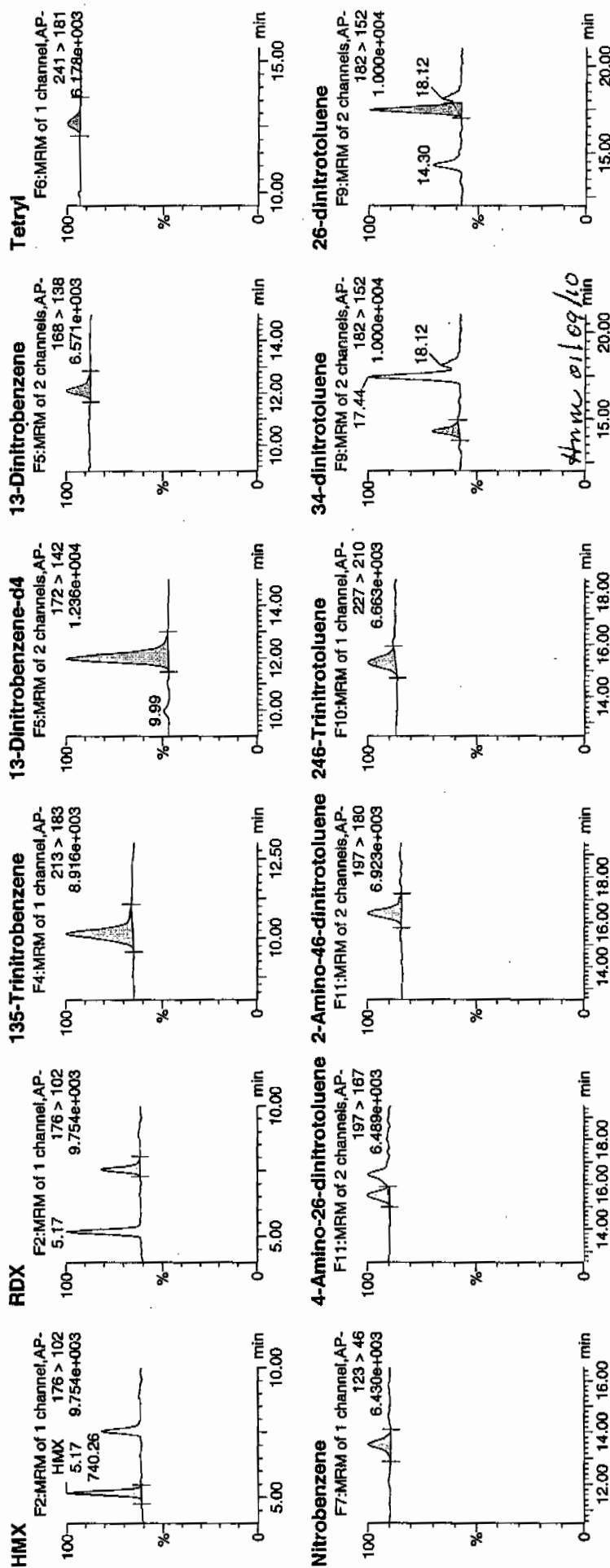
Date: 08-Jan-2010

Time: 22:39:36

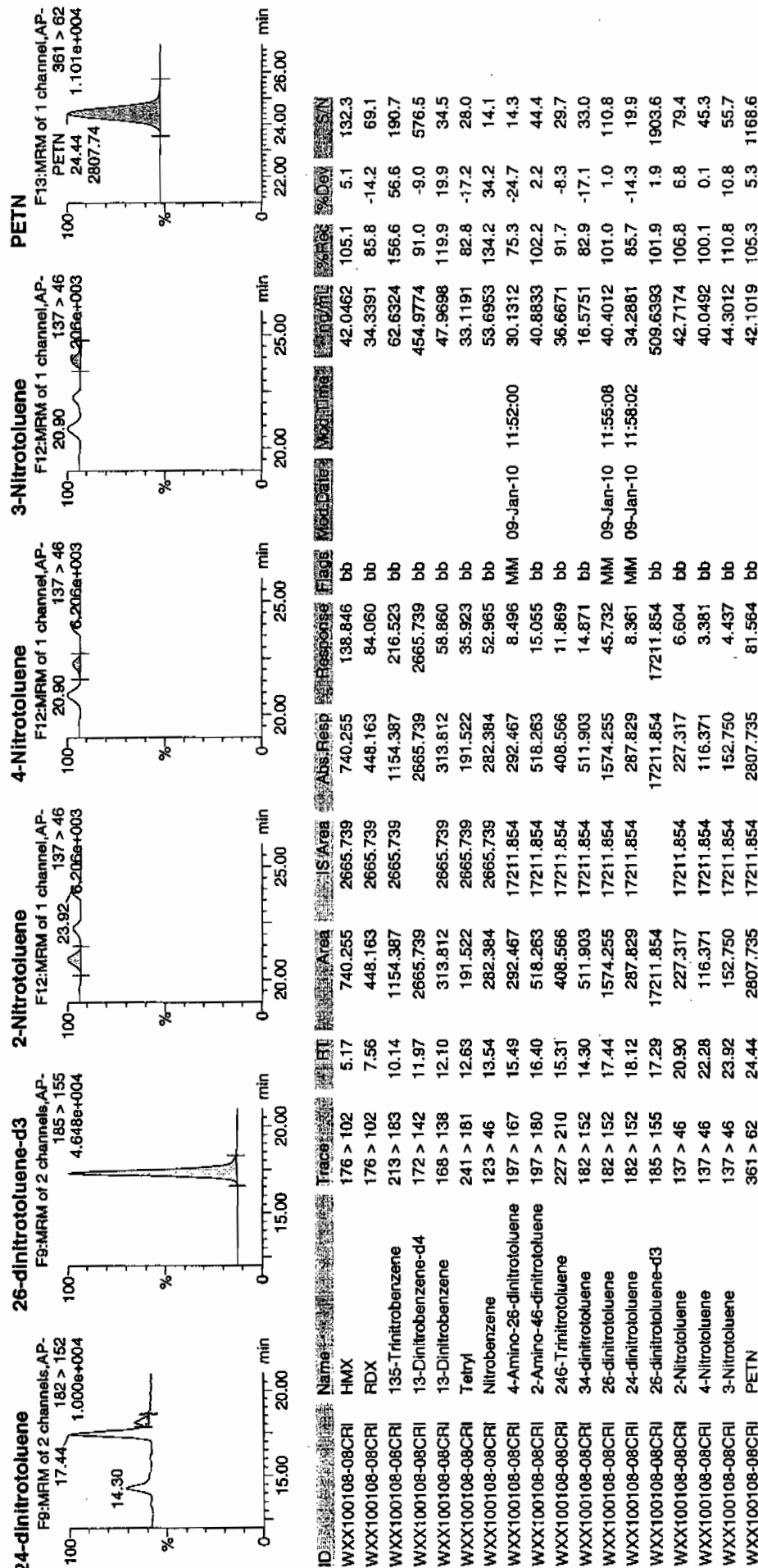
ID: WXX100108-08CRI

Vial: 1:1,C

1/9/10



Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/08/10
 Time of Injection 2239
 Standard Number WXX100108-08CRI
 Data File EXP0108012a

HMX	105.1
RDX	85.8
135-TNB	156.6
13-DNB	119.9
Tetryl	82.8
Nitrobenzene	134.2
4A-26-DNT	75.3
2A-46-DNT	102.2
246-TNT	91.7
34-DNT(surr)	82.9
26-DNT	101.0
24-DNT	85.7
2-NT	106.8
4-NT	100.1
3-NT	110.8
PETN	105.3

mtf
1/9/10

Total 1646.2

Average 102.9

Amw 01/09/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108018a

Analysis Date: 09-JAN-10 01:36

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	606.021	101	
1,3-Dinitrobenzene-d4	500	516.054	103	
2,4,6-Trinitrotoluene	600	608.705	101	
2,4-Dinitrotoluene	600	628.741	105	
2,6-Dinitrotoluene	600	563.684	94	
2,6-Dinitrotoluene-d3	500	538.099	108	
2-Amino-4,6-dinitrotoluene	600	601.969	100	
3,4-Dinitrotoluene	300	285.84	95	
4-Amino-2,6-dinitrotoluene	600	533.955	89	
HMX	600	554.517	92	
Nitrobenzene	600	581.678	97	
PETN	600	551.216	92	
RDX	600	705.816	118	
Tetryl	600	552.916	92	
m-Dinitrobenzene	600	589.319	98	
m-Nitrotoluene	600	544.817	91	
o-Nitrotoluene	600	528.699	88	
p-Nitrotoluene	600	494.24	82	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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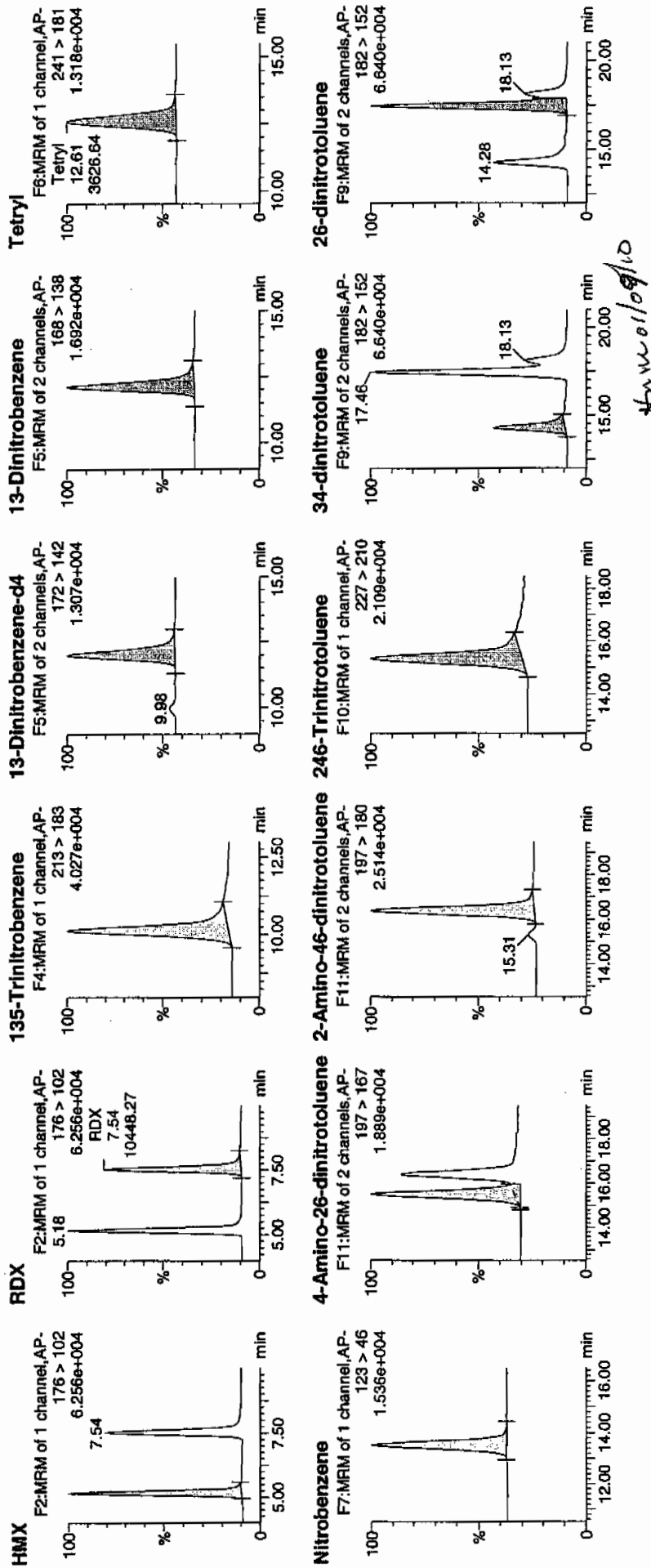
Date: 09-Jan-2010

Time: 01:36:28

ID: WXX100108-07CCV

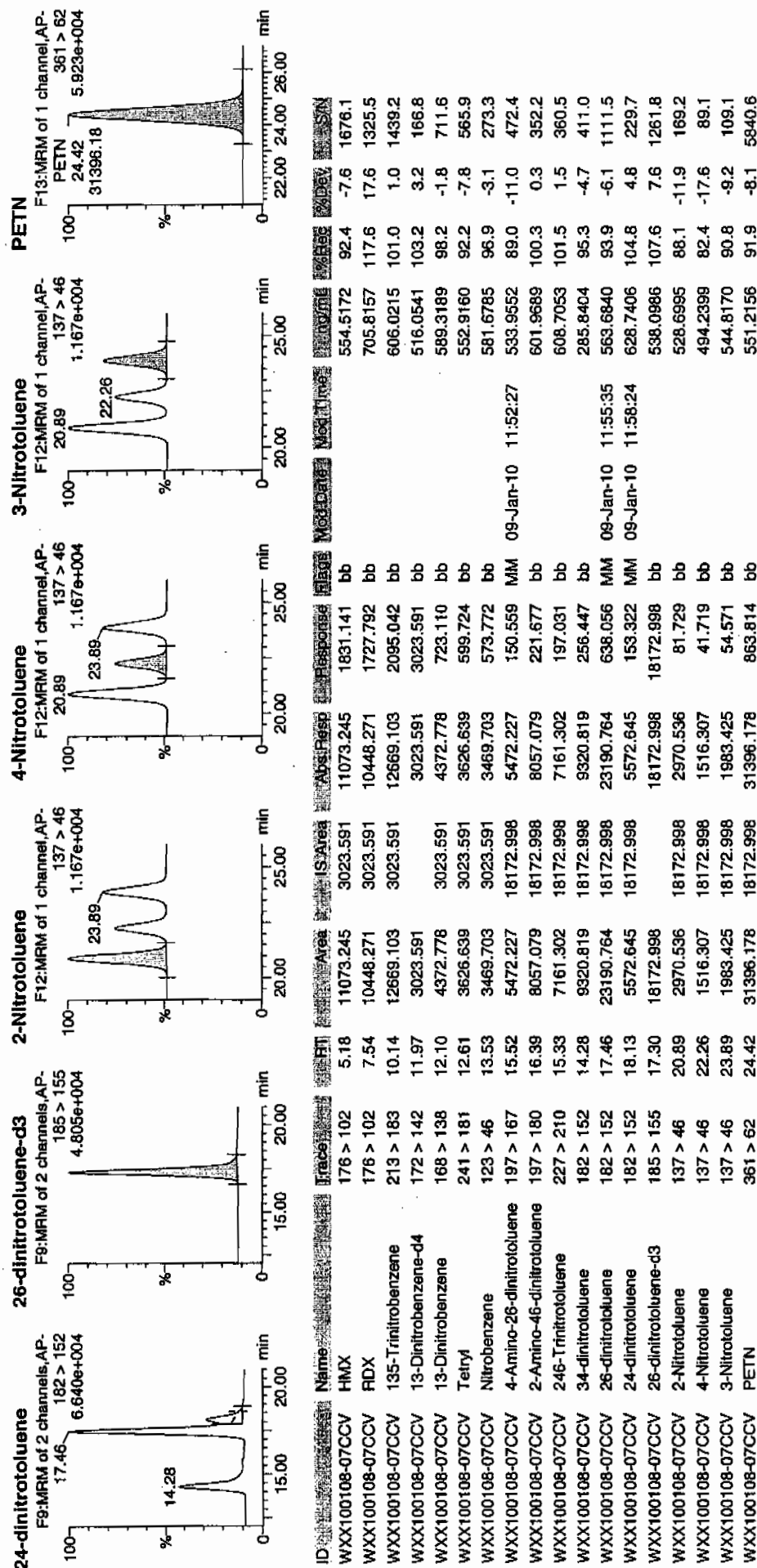
Vial: 1:1,B

17/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/09/10
 Time of Injection: 0136
 Standard Number: WXX100108-07CCV
 Data File: EXP0108018a

HMX	92.4
RDX	117.6
135-TNB	101.0
13-DNB	98.2
Tetryl	92.2
Nitrobenzene	96.9
4A-26-DNT	89.0
2A-46-DNT	100.3
246-TNT	101.5
34-DNT(surr)	95.3
26-DNT	93.9
24-DNT	104.8
2-NT	88.1
4-NT	82.4
3-NT	90.8
PETN	91.9

MTT
1/9/10

Total 1536.3

Average 96.0

HTMC 01/09/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108020a

Analysis Date: 09-JAN-10 02:35

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	57.42	144	*
1,3-Dinitrobenzene-d4	500	478.135	96	
2,4,6-Trinitrotoluene	40	47.739	119	
2,4-Dinitrotoluene	40	43.444	109	
2,6-Dinitrotoluene	40	39.173	98	
2,6-Dinitrotoluene-d3	500	472.045	94	
2-Amino-4,6-dinitrotoluene	40	41.528	104	
3,4-Dinitrotoluene	20	19.72	99	
4-Amino-2,6-dinitrotoluene	40	39.363	98	
HMX	40	44.675	112	
Nitrobenzene	40	40.724	102	
PETN	40	50.356	126	
RDX	40	41.821	105	
Tetryl	40	41.61	104	
m-Dinitrobenzene	40	36.303	91	
m-Nitrotoluene	40	34.916	87	
o-Nitrotoluene	40	40.683	102	
p-Nitrotoluene	40	38.865	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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Jan 09 12:02:23 2010, Page 39 of 61

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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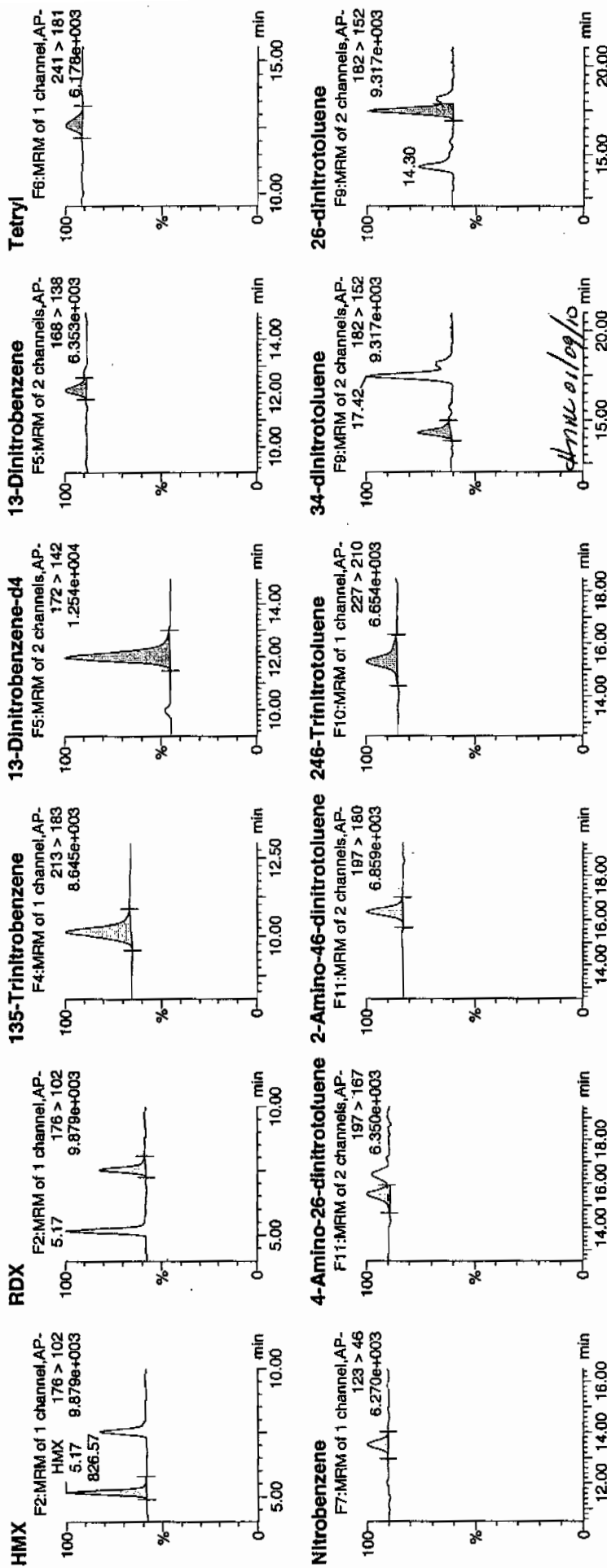
Date: 09-Jan-2010

Time: 02:35:25

ID: WXX100108-08CRI

Vial: 1:1,C

WXX
1/9/10

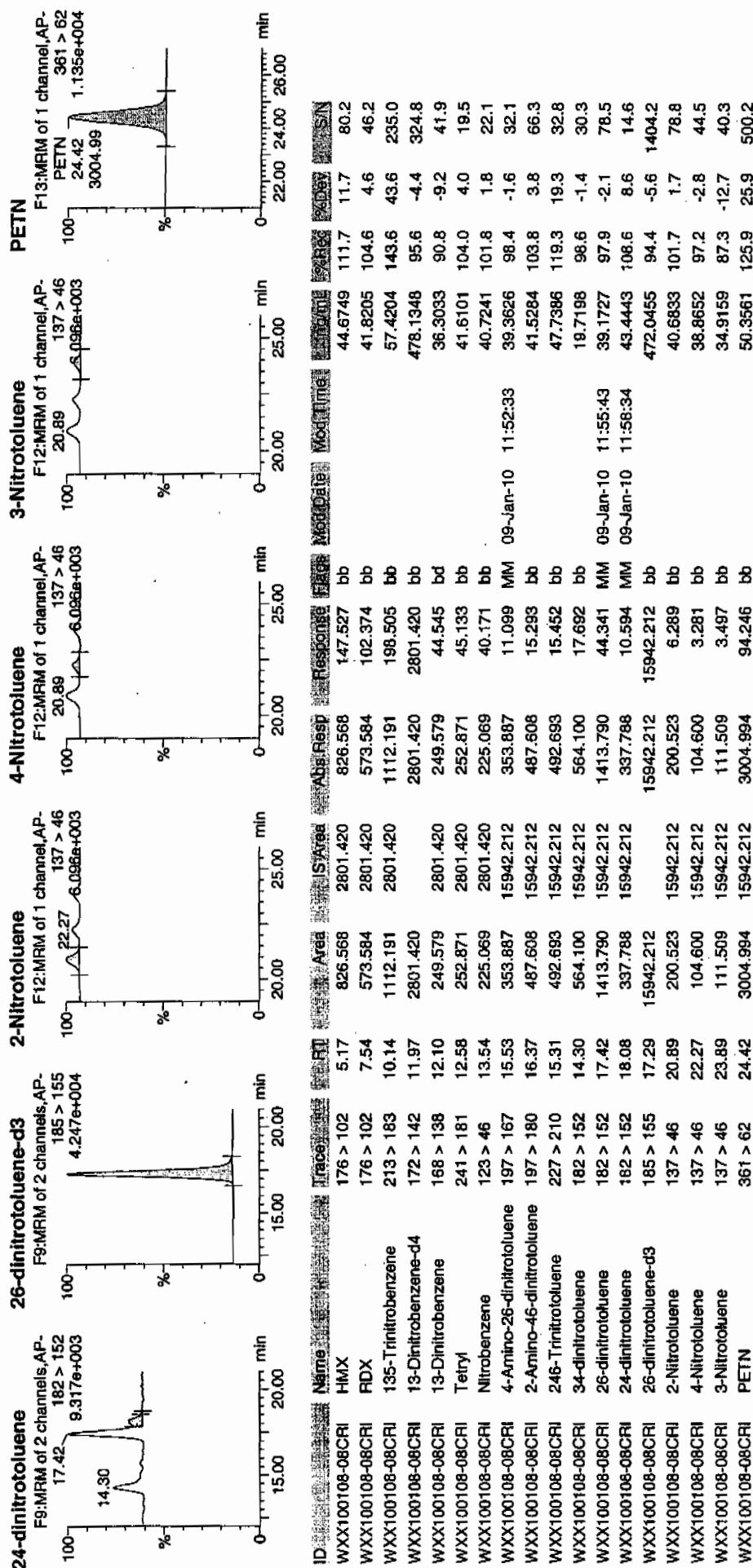


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Jan 09 12:02:23 2010, Page 40 of 61

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/09/10
 Time of Injection 0235
 Standard Number WXX100108-08CRI
 Data File EXP0108020a

HMX	111.7
RDX	104.6
135-TNB	143.6
13-DNB	90.8
Tetryl	104.0
Nitrobenzene	101.8
4A-26-DNT	98.4
2A-46-DNT	103.8
246-TNT	119.3
34-DNT(surr)	98.6
26-DNT	97.9
24-DNT	108.6
2-NT	101.7
4-NT	97.2
3-NT	87.3
PETN	125.9

*mtf
1/9/10*

Total 1695.2

Average 106.0

Sum 01/08/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108028a

Analysis Date: 09-JAN-10 06:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	576.974	96	
1,3-Dinitrobenzene-d4	500	545.758	109	
2,4,6-Trinitrotoluene	600	717.642	120	
2,4-Dinitrotoluene	600	588.932	98	
2,6-Dinitrotoluene	600	592.045	99	
2,6-Dinitrotoluene-d3	500	532.538	107	
2-Amino-4,6-dinitrotoluene	600	672.488	112	
3,4-Dinitrotoluene	300	300.567	100	
4-Amino-2,6-dinitrotoluene	600	628.87	105	
HMX	600	458.234	76	*
Nitrobenzene	600	570.673	95	
PETN	600	499.896	83	
RDX	600	534.399	89	
Tetryl	600	506.836	84	
m-Dinitrobenzene	600	556.783	93	
m-Nitrotoluene	600	521.919	87	
o-Nitrotoluene	600	569.819	95	
p-Nitrotoluene	600	546.099	91	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA.qld, Time: Sat Jan 09 12:01:37 2010

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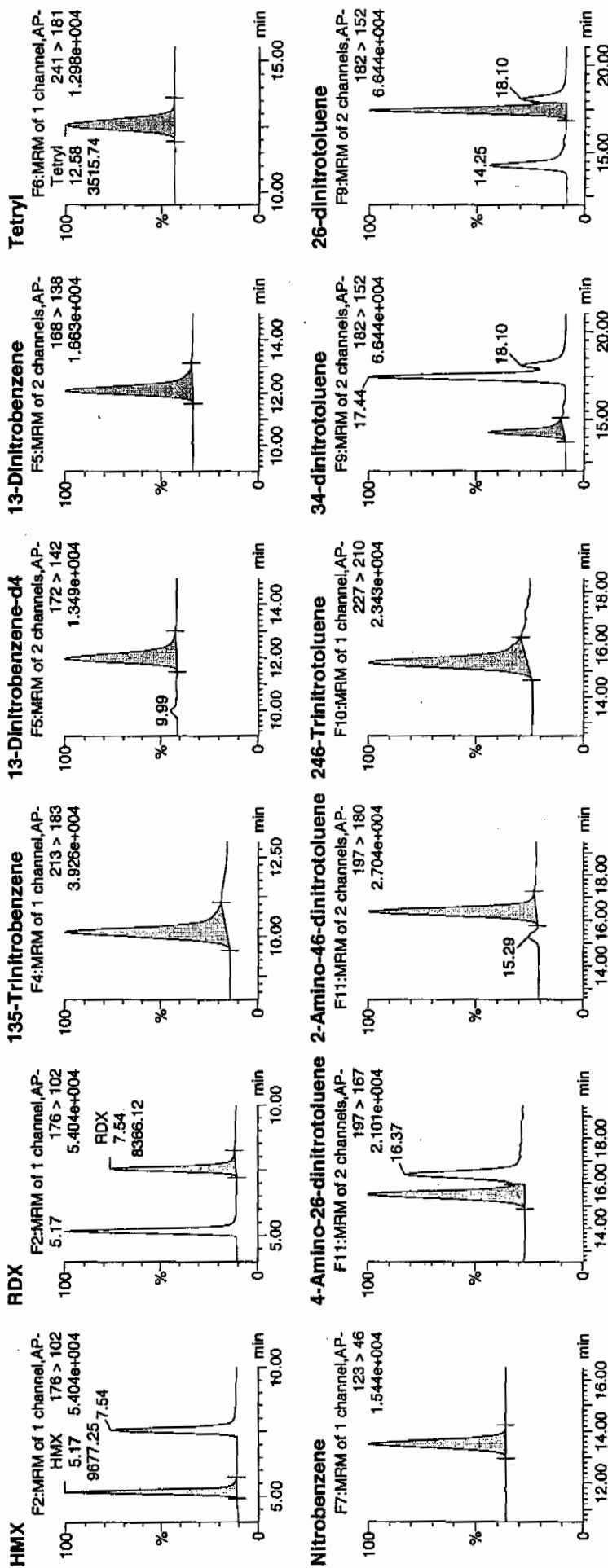
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Time: 06:31:18

ID: WXX100108-07CCV

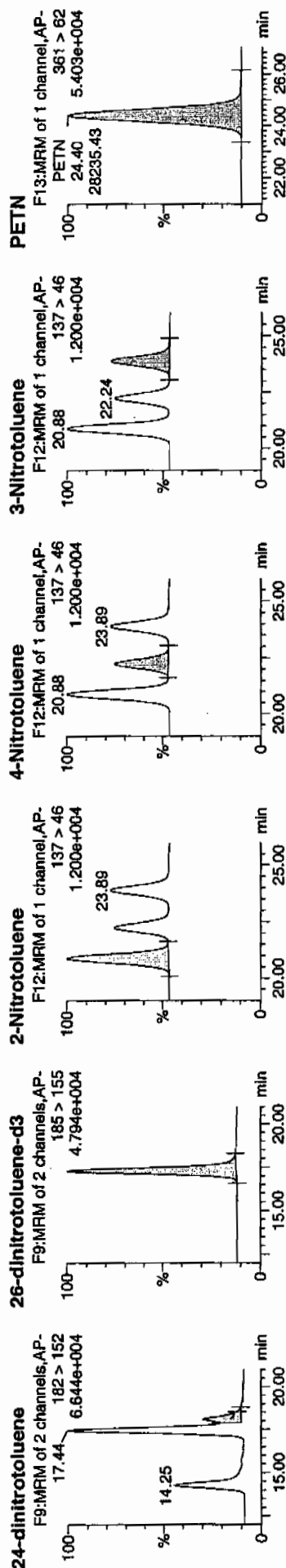
Vial: 1:1,B

WXX
1/9/10



Handwritten: 01/09/10

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Times	Int	% Rec	% Dev	S/N
WXX100108-07CCV	HMX	176 > 102	5.17	9677.248	3197.627	9677.248	1513.192	db			458.2339	76.4	-23.6	1302.2
WXX100108-07CCV	RDX	176 > 102	7.54	8366.117	3197.627	8366.117	1308.176	bb			534.3995	89.1	-10.9	958.9
WXX100108-07CCV	135-Trinitrobenzene	213 > 183	10.14	12756.131	3197.627	12756.131	1994.625	bb			576.9742	96.2	-3.8	1775.0
WXX100108-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	3197.627		3197.627	3197.627	bb			545.5758	109.2	9.2	366.9
WXX100108-07CCV	13-Dinitrobenzene	168 > 138	12.10	4369.159	3197.627	4369.159	683.188	bb			556.7831	92.8	-7.2	476.5
WXX100108-07CCV	Tetryl	241 > 181	12.58	3515.744	3197.627	3515.744	549.743	bb			506.8358	85.5	-15.5	212.3
WXX100108-07CCV	Nitrobenzene	123 > 46	13.50	3599.990	3197.627	3599.990	562.916	bb			570.6729	95.1	-4.9	348.4
WXX100108-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.49	6378.363	17985.215	6378.363	177.322	MM	09-Jan-10	11:53:12	628.8700	104.8	4.8	295.3
WXX100108-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.37	8907.944	17985.215	8907.944	247.646	bb			672.4885	112.1	12.1	287.3
WXX100108-07CCV	246-Trinitrotoluene	227 > 210	15.31	8355.686	17985.215	8355.686	232.293	bb			717.6425	119.6	19.6	206.5
WXX100108-07CCV	34-dinitrotoluene	182 > 152	14.25	9699.747	17985.215	9699.747	269.659	bb			300.5667	100.2	0.2	301.1
WXX100108-07CCV	26-dinitrotoluene	182 > 152	17.44	24105.902	17985.215	24105.902	670.159	MM	09-Jan-10	11:56:23	592.0454	98.7	-1.3	785.9
WXX100108-07CCV	24-dinitrotoluene	182 > 152	18.10	5165.875	17985.215	5165.875	143.614	MM	09-Jan-10	11:59:16	588.9317	98.2	-1.8	169.9
WXX100108-07CCV	26-dinitrotoluene-d3	185 > 155	17.29	17985.215		17985.215	17985.215	bb			532.5383	106.5	6.5	1402.7
WXX100108-07CCV	2-Nitrotoluene	137 > 46	20.88	3168.489	17985.215	3168.489	88.086	bb			569.8193	95.0	-5.0	519.0
WXX100108-07CCV	4-Nitrotoluene	137 > 46	22.24	1658.095	17985.215	1658.095	46.096	bb			546.0986	91.0	-9.0	277.7
WXX100108-07CCV	3-Nitrotoluene	137 > 46	23.89	1880.430	17985.215	1880.430	52.277	bb			521.9189	87.0	-13.0	299.0
WXX100108-07CCV	PETN	361 > 62	24.40	28235.434	17985.215	28235.434	784.962	bb			499.8964	83.3	-16.7	7767.7

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/09/10
 Time of Injection: 0631
 Standard Number: WXX100108-07CCV
 Data File: EXP0108028a

HMX	76.4
RDX	89.1
135-TNB	96.2
13-DNB	92.8
Tetryl	84.5
Nitrobenzene	95.1
4A-26-DNT	104.8
2A-46-DNT	112.1
246-TNT	119.6
34-DNT(surr)	100.2
26-DNT	98.7
24-DNT	98.2
2-NT	95.0
4-NT	91.0
3-NT	97.0
PETN	83.3

WTF
1/9/10

Total 1534.0

Average 95.9

Handwritten: Hm 01/09/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108030a

Analysis Date: 09-JAN-10 07:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	40.027	100	
2,6-Dinitrotoluene-d3	500	552.633	111	
2-Amino-4,6-dinitrotoluene	40	39.157	98	
3,4-Dinitrotoluene	20	21.298	106	
4-Amino-2,6-dinitrotoluene	40	46.914	117	
HMX	40	43.202	108	
Nitrobenzene	40	40.174	100	
PETN	40	38.928	97	
RDX	40	44.19	110	
Tetryl	40	38.528	96	
m-Dinitrobenzene	40	37.875	95	
m-Nitrotoluene	40	37.972	95	
o-Nitrotoluene	40	39.332	98	
p-Nitrotoluene	40	42.004	105	
1,3,5-Trinitrobenzene	40	54.913	137	*
1,3-Dinitrobenzene-d4	500	516.042	103	
2,4,6-Trinitrotoluene	40	43.734	109	
2,4-Dinitrotoluene	40	37.846	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010

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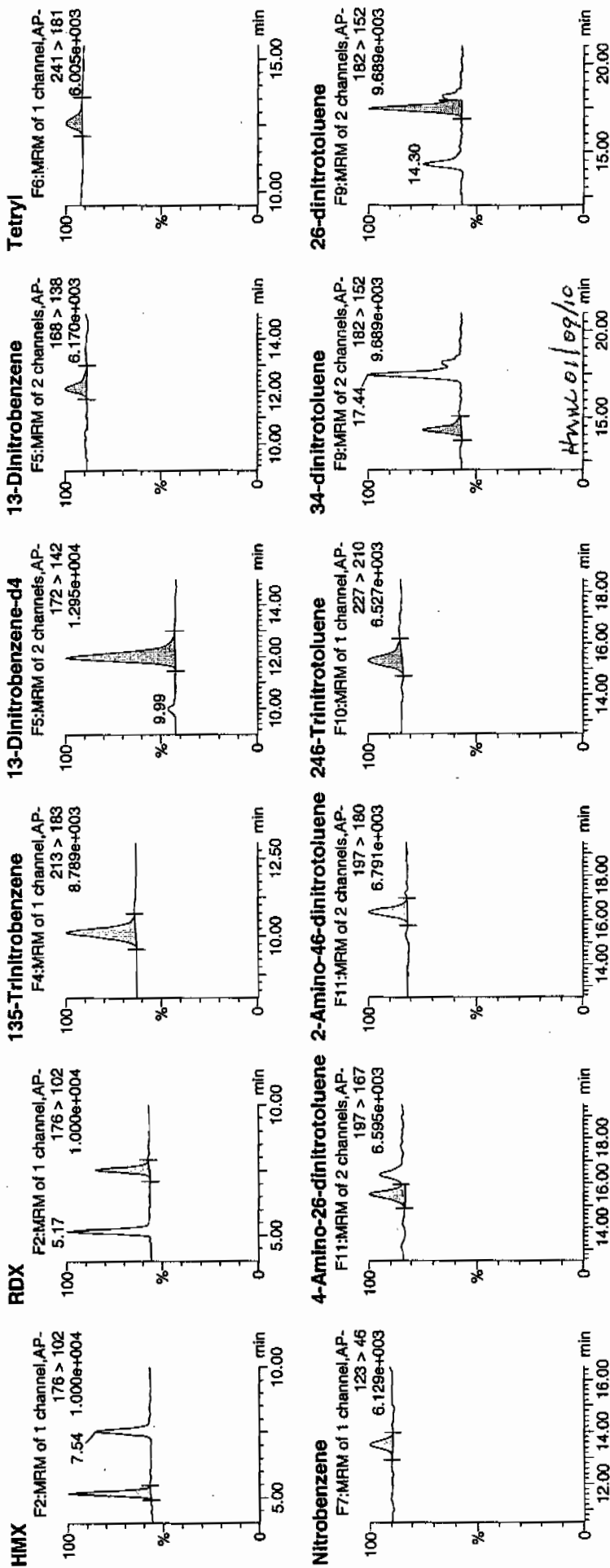
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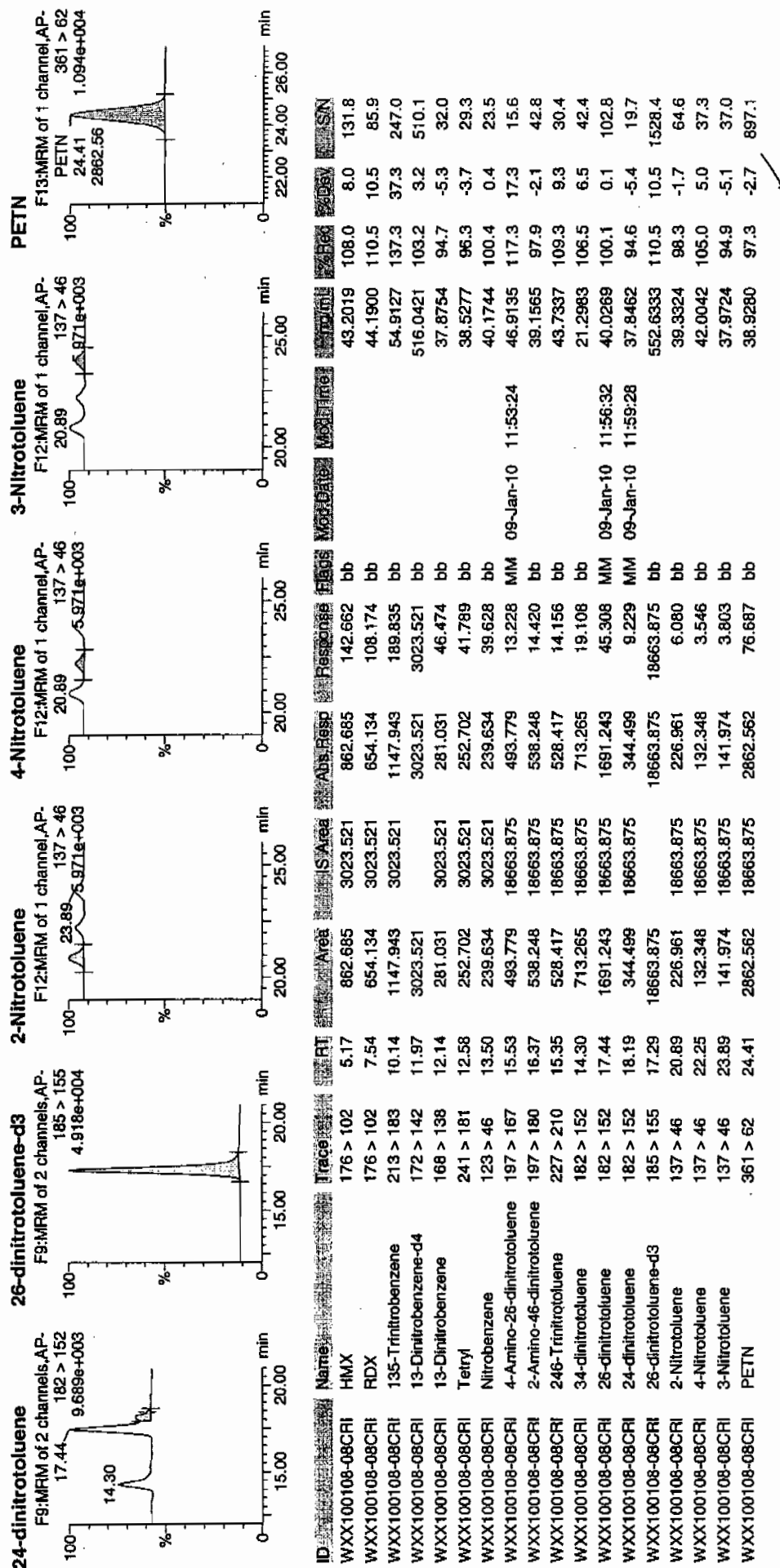
ID: WXX100108-08CRI

Vial: 1:1,C

1/9/10



Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA.qld, Time: Sat Jan 09 12:01:37 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/09/10
 Time of Injection 0730
 Standard Number WXX100108-08CRI
 Data File EXP0108030a

HMX	108.0
RDX	110.5
135-TNB	137.3
13-DNB	94.7
Tetryl	96.3
Nitrobenzene	100.4
4A-26-DNT	117.3
2A-46-DNT	97.9
246-TNT	109.3
34-DNT(surr)	106.5
26-DNT	100.1
24-DNT	94.6
2-NT	98.3
4-NT	105.0
3-NT	94.9
PETN	97.3

WAT
1/9/10

Total 1668.4

Average 104.3

WAT 01/09/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108041a

Analysis Date: 09-JAN-10 12:54

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	642.502	107	
1,3-Dinitrobenzene-d4	500	410.851	82	
2,4,6-Trinitrotoluene	600	726.215	121	*
2,4-Dinitrotoluene	600	603.311	101	
2,6-Dinitrotoluene	600	568.233	95	
2,6-Dinitrotoluene-d3	500	432.514	87	
2-Amino-4,6-dinitrotoluene	600	684.018	114	
3,4-Dinitrotoluene	300	377.773	126	*
4-Amino-2,6-dinitrotoluene	600	605.8	101	
HMX	600	620.528	103	
Nitrobenzene	600	719.579	120	
PETN	600	657.72	110	
RDX	600	709.927	118	
Tetryl	600	543.428	91	
m-Dinitrobenzene	600	585.785	98	
m-Nitrotoluene	600	636.48	106	
o-Nitrotoluene	600	717.89	120	
p-Nitrotoluene	600	645.985	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 21 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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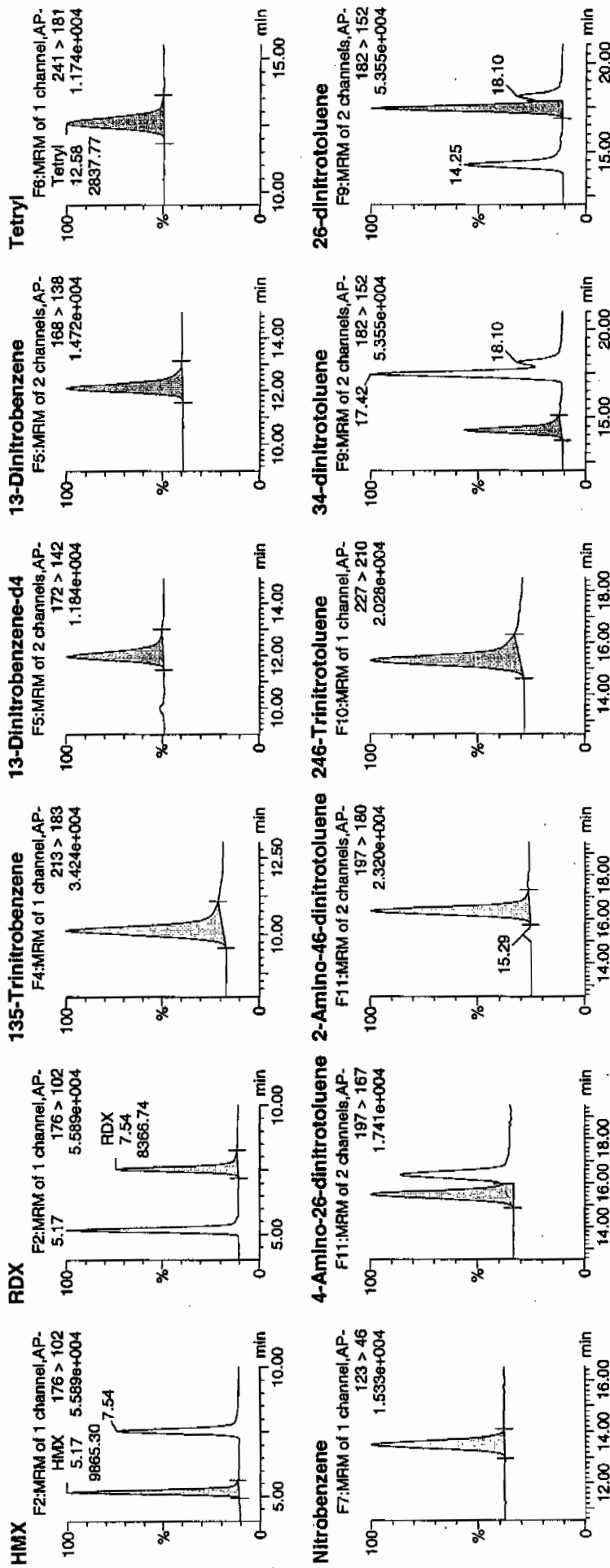
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ID: WXX100108-07CCV

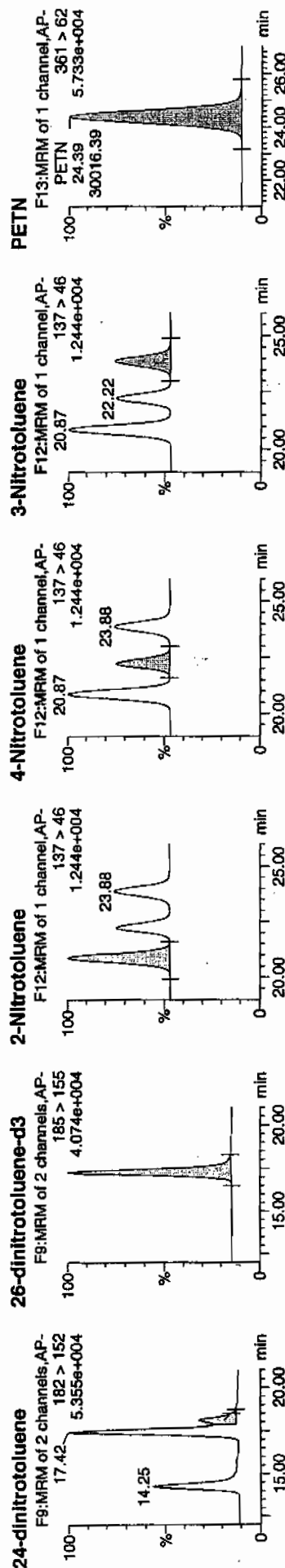
Vial: 1:1,B

WXX
1/11/10



4/11/10

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Acc	Rec	Adm	SN	
WXX100108-07CCV	HMx	176 > 102	5.17	9865.303	2407.200	9865.303	2049.124	bb		620.5281	103.4	3.4	1575.3		
WXX100108-07CCV	RDX	176 > 102	7.54	8366.739	2407.200	8366.739	1737.857	bb		709.9274	118.3	18.3	1118.7		
WXX100108-07CCV	1,3,5-Trinitrobenzene	213 > 183	10.14	10693.540	2407.200	10693.540	2221.157	bb		642.5021	107.1	7.1	992.0		
WXX100108-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	2407.200	2407.200	2407.200	2407.200	bb		410.8510	82.2	-17.8	95.7		
WXX100108-07CCV	13-Dinitrobenzene	168 > 138	12.10	3460.467	2407.200	3460.467	718.774	bb		585.7854	97.6	-2.4	254.8		
WXX100108-07CCV	Tetryl	241 > 181	12.58	2837.766	2407.200	2837.766	589.433	bb		543.4283	90.6	-9.4	206.7		
WXX100108-07CCV	Nitrobenzene	123 > 46	13.50	3417.250	2407.200	3417.250	709.798	bb		719.5787	119.9	19.9	485.4		
WXX100108-07CCV	4-Amino-2,6-dinitrotoluene	197 > 167	15.49	4990.300	14607.119	4990.300	170.817	MM	11-Jan-10	09:05:40	605.8002	101.0	1.0	251.8	
WXX100108-07CCV	2-Amino-4,6-dinitrotoluene	197 > 180	16.37	7358.833	14607.119	7358.833	251.892	bb		684.0178	114.0	14.0	209.6		
WXX100108-07CCV	2,4,6-Trinitrotoluene	227 > 210	15.31	5867.335	14607.119	5867.335	235.068	bb		726.2152	121.0	21.0	383.0		
WXX100108-07CCV	3,4-dinitrotoluene	182 > 152	14.25	9901.460	14607.119	9901.460	338.926	bb		377.7728	125.9	25.9	210.7		
WXX100108-07CCV	2,6-dinitrotoluene	182 > 152	17.42	18790.738	14607.119	18790.738	643.205	MM	11-Jan-10	09:14:29	568.2331	94.7	-5.3	417.6	
WXX100108-07CCV	2,4-dinitrotoluene	182 > 152	18.10	4298.026	14607.119	4298.026	147.121	MM	11-Jan-10	09:24:05	603.3109	100.6	0.6	93.0	
WXX100108-07CCV	2,6-dinitrotoluene-d3	185 > 155	17.27	14607.119	14607.119	14607.119	14607.119	bb		432.5136	86.5	-13.5	1040.5		
WXX100108-07CCV	2-Nitrotoluene	137 > 46	20.87	3242.066	14607.119	3242.066	110.976	bb		717.8900	119.6	19.6	520.9		
WXX100108-07CCV	4-Nitrotoluene	137 > 46	22.22	1592.977	14607.119	1592.977	54.527	bb		645.9846	107.7	7.7	268.9		
WXX100108-07CCV	3-Nitrotoluene	137 > 46	23.88	1862.463	14607.119	1862.463	63.752	bb		636.4797	106.1	6.1	279.2		
WXX100108-07CCV	PETN	361 > 62	24.39	30016.387	14607.119	30016.387	1027.457	bb		657.7201	109.6	9.6	4741.7		

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/09/10
 Time of Injection: 1254
 Standard Number: WXX100108-07CCV
 Data File: EXP0108041a

HMX	103.4
RDX	118.3
135-TNB	107.1
13-DNB	97.6
Tetryl	90.6
Nitrobenzene	119.9
4A-26-DNT	101.0
2A-46-DNT	114.0
246-TNT	121.0
34-DNT(surr)	125.9
26-DNT	94.7
24-DNT	100.6
2-NT	119.6
4-NT	107.7
3-NT	106.1
PETN	109.6

1/11/10

Total 1737.1

Average 108.6

4/11/10 01/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108043a

Analysis Date: 09-JAN-10 13:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	36.845	92	
o-Nitrotoluene	40	34.24	86	
p-Nitrotoluene	40	43.58	109	
1,3,5-Trinitrobenzene	40	51.073	128	
1,3-Dinitrobenzene-d4	500	556.076	111	
2,4,6-Trinitrotoluene	40	41.823	105	
2,4-Dinitrotoluene	40	37.307	93	
2,6-Dinitrotoluene	40	38.365	96	
2,6-Dinitrotoluene-d3	500	533.163	107	
2-Amino-4,6-dinitrotoluene	40	47.565	119	
3,4-Dinitrotoluene	20	17.147	86	
4-Amino-2,6-dinitrotoluene	40	39.341	98	
HMX	40	45.002	113	
Nitrobenzene	40	36.425	91	
PETN	40	42.713	107	
RDX	40	40.233	101	
Tetryl	40	41.019	103	
m-Dinitrobenzene	40	45.897	115	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 25 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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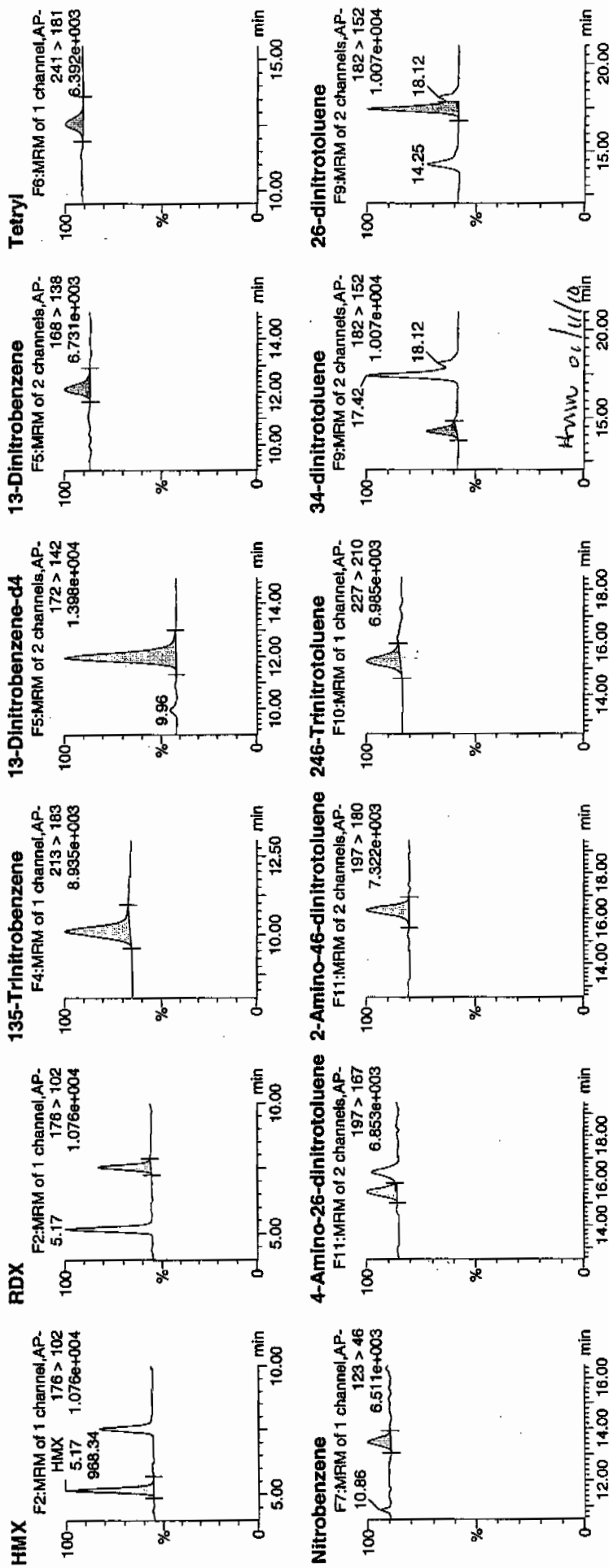
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Time: 13:53:47

ID: WXX100108-08CRI

Vial: 1:1,C

1/11/10

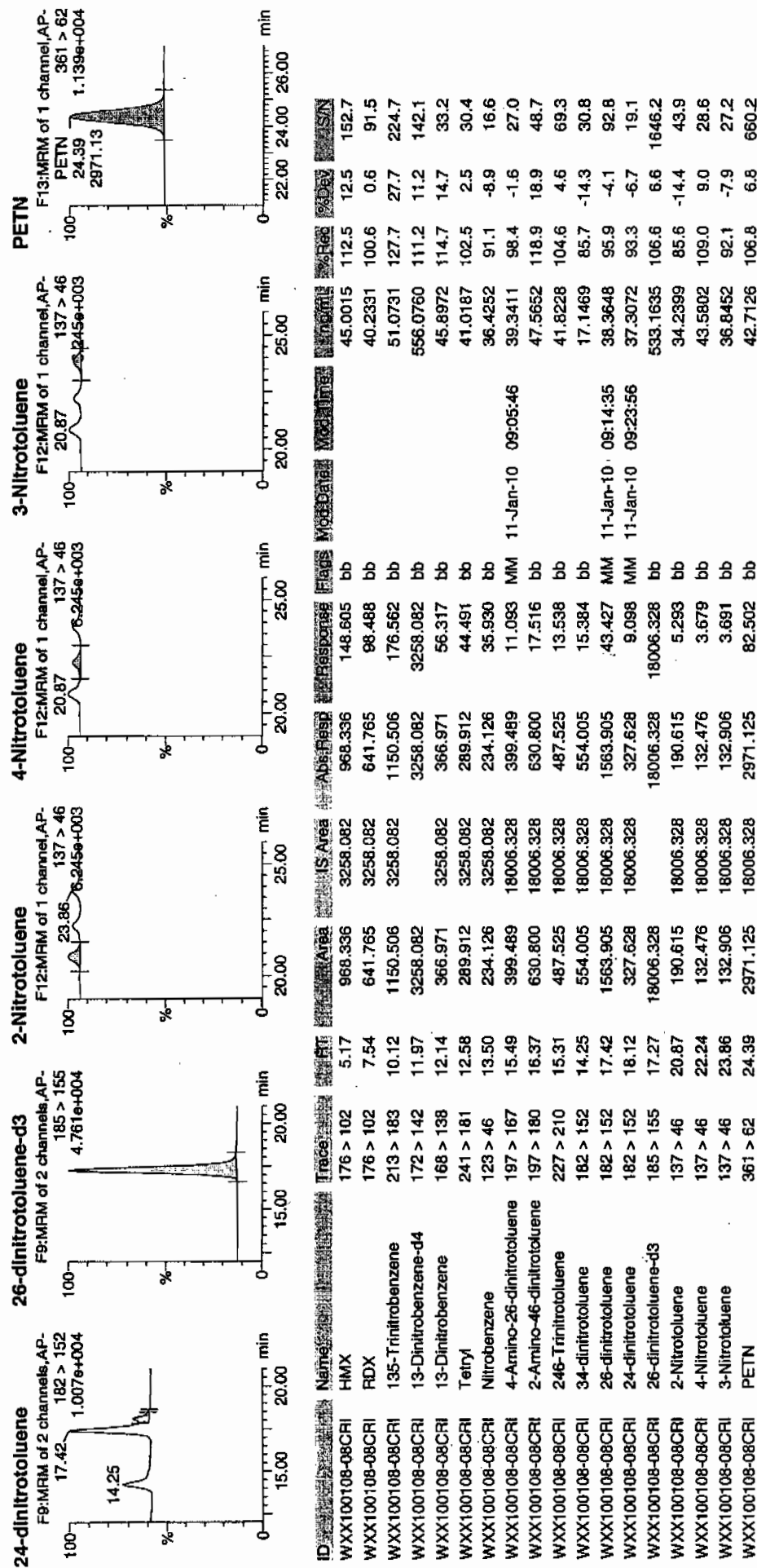


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 26 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/09/10
 Time of Injection 1353
 Standard Number WXX100108-08CRI
 Data File EXP0108043a

HMX	112.5
RDX	100.6
135-TNB	127.7
13-DNB	114.7
Tetryl	102.5
Nitrobenzene	91.1
4A-26-DNT	98.4
2A-46-DNT	118.9
246-TNT	104.6
34-DNT(surr)	85.7
26-DNT	95.9
24-DNT	93.3
2-NT	85.6
4-NT	109.0
3-NT	92.1
PETN	106.8

*WAT
1/11/10*

Total 1639.4

Average 102.5

Handwritten: 1/11/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108054a

Analysis Date: 09-JAN-10 19:18

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	568.59	95	
2,6-Dinitrotoluene-d3	500	549.388	110	
2-Amino-4,6-dinitrotoluene	600	621.715	104	
3,4-Dinitrotoluene	300	288.143	96	
4-Amino-2,6-dinitrotoluene	600	555.588	93	
HMX	600	474.068	79	*
Nitrobenzene	600	548.71	91	
PETN	600	562.416	94	
RDX	600	560.942	93	
Tetryl	600	481.886	80	
m-Dinitrobenzene	600	590.009	98	
m-Nitrotoluene	600	497.526	83	
o-Nitrotoluene	600	568.858	95	
p-Nitrotoluene	600	550.462	92	
1,3,5-Trinitrobenzene	600	546.192	91	
1,3-Dinitrobenzene-d4	500	515.635	103	
2,4,6-Trinitrotoluene	600	625.678	104	
2,4-Dinitrotoluene	600	582.101	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108054a

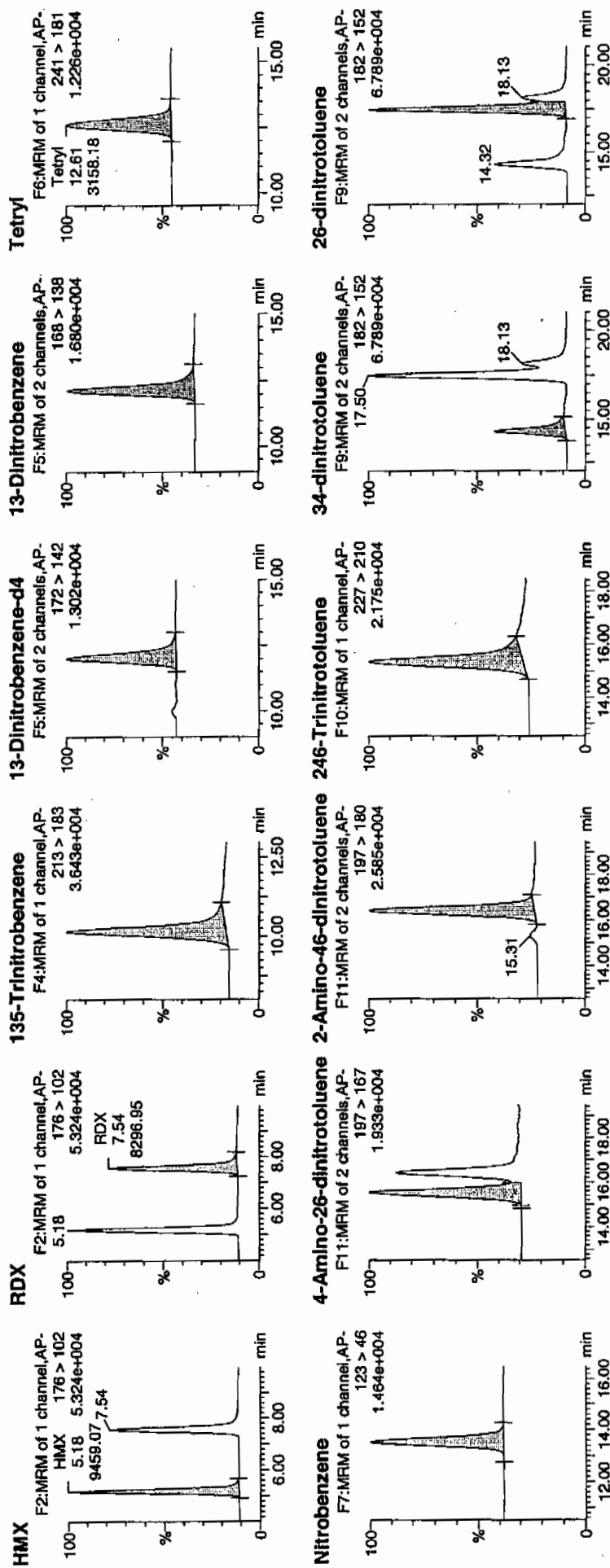
Date: 09-Jan-2010

Time: 19:18:19

ID: WXX100108-07CCV

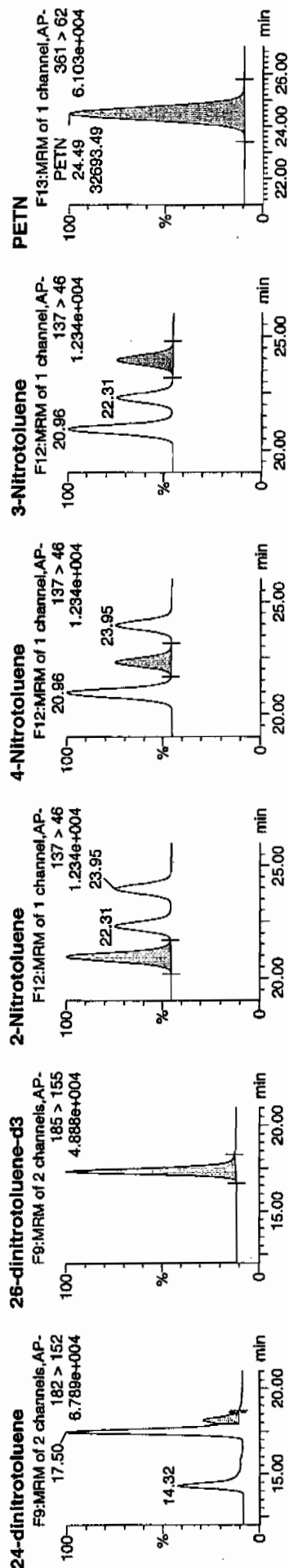
Vial: 1:1,B

WXX
1/11/10



WXX
1/11/10

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	RT	Area	SA Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Norm	Req	Dev	SN
WXX100108-07CCV	HMX	176 > 102	5.18	9459.069	3021.138	9459.069	1565.481	bb			474.0684	79.0	-21.0	1228.8
WXX100108-07CCV	RDX	176 > 102	7.54	8296.951	3021.138	8296.951	1373.150	bb			560.9419	93.5	-6.5	919.4
WXX100108-07CCV	135-Trinitrobenzene	213 > 183	10.14	11409.079	3021.138	11409.079	1888.209	bb			546.1919	91.0	-9.0	1312.9
WXX100108-07CCV	13-Dinitrobenzene-d4	172 > 142	12.00	3021.138	3021.138	3021.138	3021.138	bb			515.6354	103.1	3.1	134.5
WXX100108-07CCV	13-Dinitrobenzene	168 > 138	12.13	4374.350	3021.138	4374.350	723.957	bb			590.0094	98.3	-1.7	436.8
WXX100108-07CCV	Tetryl	241 > 181	12.61	3158.181	3021.138	3158.181	522.681	bb			481.8860	80.3	-19.7	408.0
WXX100108-07CCV	Nitrobenzene	123 > 46	13.53	3270.393	3021.138	3270.393	541.252	bb			548.7103	91.5	-8.5	224.6
WXX100108-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.55	5813.388	18554.258	5813.388	156.659	MM	11-Jan-10	09:06:02	555.5882	92.6	-7.4	164.1
WXX100108-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.42	8495.949	18554.258	8495.949	228.949	bb			621.7149	103.6	3.6	235.6
WXX100108-07CCV	246-Trinitrotoluene	227 > 210	15.33	7515.410	18554.258	7515.410	202.525	bb			625.6778	104.3	4.3	435.6
WXX100108-07CCV	34-dinitrotoluene	182 > 152	14.32	9593.035	18554.258	9593.035	258.513	bb			288.1433	96.0	-4.0	307.7
WXX100108-07CCV	26-dinitrotoluene	182 > 152	17.50	23883.365	18554.258	23883.365	643.609	MM	11-Jan-10	09:14:47	568.5900	94.8	-5.2	844.5
WXX100108-07CCV	24-dinitrotoluene	182 > 152	18.13	5267.504	18554.258	5267.504	141.949	MM	11-Jan-10	09:23:30	582.1005	97.0	-3.0	170.3
WXX100108-07CCV	26-dinitrotoluene-d3	185 > 155	17.32	18554.258	18554.258	18554.258	18554.258	bb			549.3876	109.9	9.9	1202.2
WXX100108-07CCV	2-Nitrotoluene	137 > 46	20.96	3263.225	18554.258	3263.225	87.937	bb			568.8582	94.8	-5.2	533.6
WXX100108-07CCV	4-Nitrotoluene	137 > 46	22.31	1724.223	18554.258	1724.223	46.464	bb			550.4617	91.7	-8.3	286.9
WXX100108-07CCV	3-Nitrotoluene	137 > 46	23.95	1849.261	18554.258	1849.261	49.834	bb			497.5264	82.9	-17.1	286.3
WXX100108-07CCV	PETN	361 > 62	24.49	32693.492	18554.258	32693.492	881.024	bb			562.4164	93.7	-6.3	3672.1

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/09/10
 Time of Injection: 1918
 Standard Number: WXX100108-07CCV
 Data File: EXP0108054a

HMX	79.0
RDX	93.5
135-TNB	91.0
13-DNB	98.3
Tetryl	80.3
Nitrobenzene	91.5
4A-26-DNT	92.6
2A-46-DNT	103.6
246-TNT	104.3
34-DNT(surr)	96.0
26-DNT	94.8
24-DNT	97.0
2-NT	94.8
4-NT	91.7
3-NT	82.9
PETN	93.7

*WXX
1/11/10*

Total 1485.0

Average 92.8

Home - 01/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108056a

Analysis Date: 09-JAN-10 20:17

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	59.27	148	*
1,3-Dinitrobenzene-d4	500	464.374	93	
2,4,6-Trinitrotoluene	40	38.265	96	
2,4-Dinitrotoluene	40	43.974	110	
2,6-Dinitrotoluene	40	38.05	95	
2,6-Dinitrotoluene-d3	500	479.013	96	
2-Amino-4,6-dinitrotoluene	40	44.757	112	
3,4-Dinitrotoluene	20	21.59	108	
4-Amino-2,6-dinitrotoluene	40	36.912	92	
HMX	40	43.588	109	
Nitrobenzene	40	46.771	117	
PETN	40	57.163	143	*
RDX	40	43.887	110	
Tetryl	40	33.653	84	
m-Dinitrobenzene	40	43.08	108	
m-Nitrotoluene	40	44.272	111	
o-Nitrotoluene	40	43.778	109	
p-Nitrotoluene	40	35.576	89	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108056a

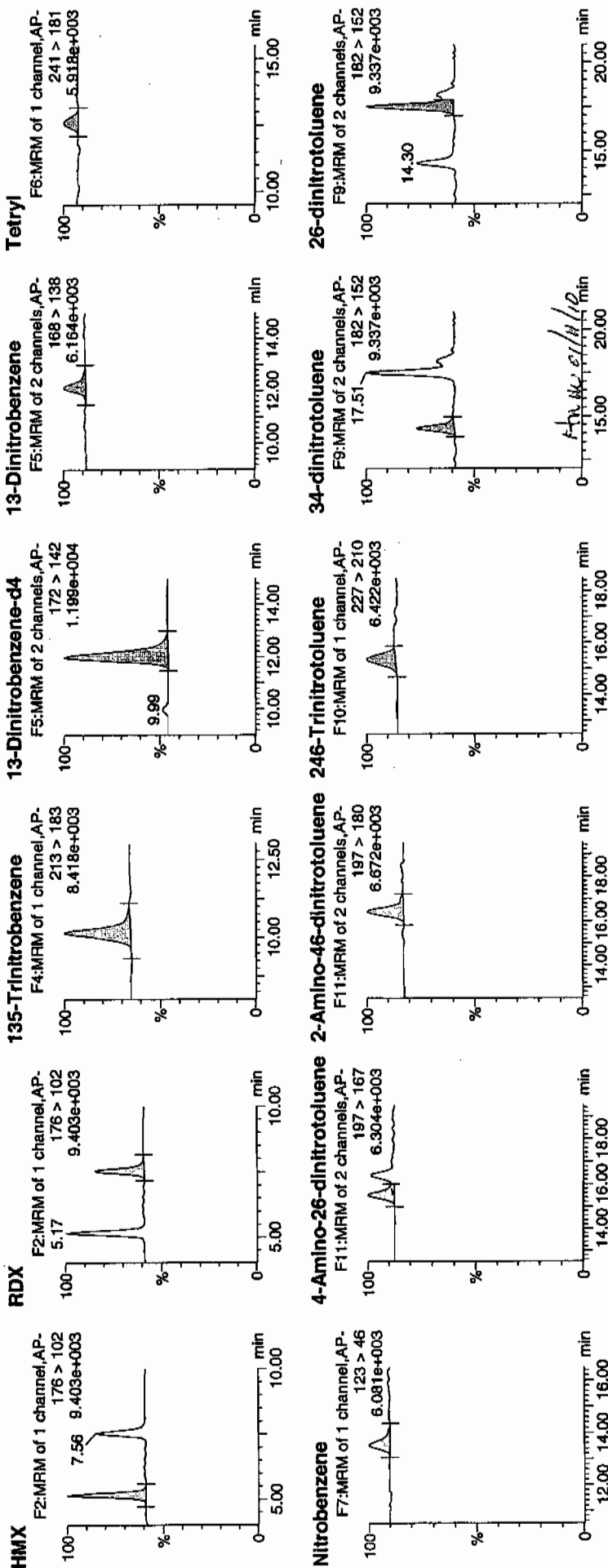
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Time: 20:17:22

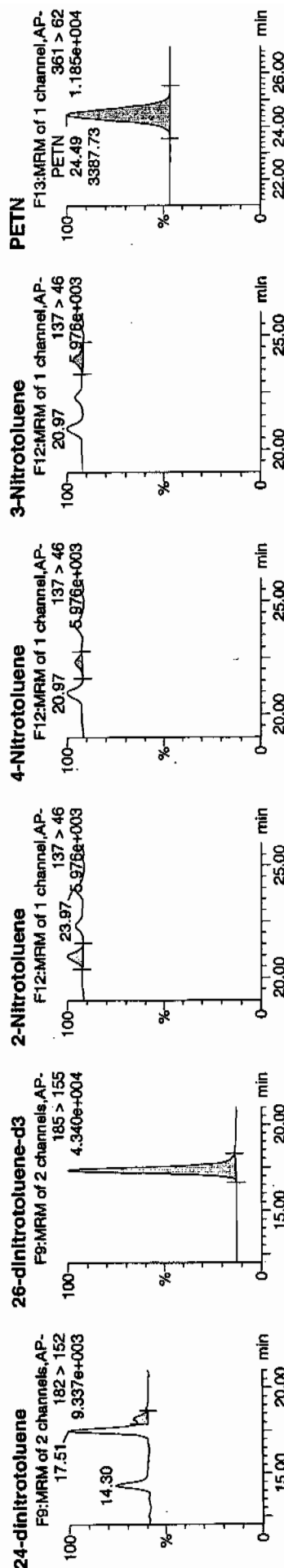
ID: WXX100108-08CRI

Vial: 1:1,C

WXX
1/11/10



Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	RT	Area	IS Area	AbsResq	Response	Flags	ModDate	ModTime	Mod	Area	SD	SN
WXX100108-08CRI	HMX	176 > 102	5.17	783.247	2720.792	783.247	143.937	bb			43.5880	109.0	9.0	87.1
WXX100108-08CRI	RDX	176 > 102	7.56	584.604	2720.792	584.604	107.433	bb			43.8870	109.7	9.7	54.2
WXX100108-08CRI	135-Trinitrobenzene	213 > 183	10.16	1114.972	2720.792	1114.972	204.898	bb			59.2698	148.2	48.2	39.1
WXX100108-08CRI	13-Dinitrobenzene-d4	172 > 142	12.00	2720.792	2720.792	2720.792	2720.792	bb			464.3736	92.9	-7.1	295.8
WXX100108-08CRI	13-Dinitrobenzene	168 > 138	12.14	287.645	2720.792	287.645	52.861	bb			43.0802	107.7	7.7	36.7
WXX100108-08CRI	Tetryl	241 > 181	12.63	198.626	2720.792	198.626	36.502	bb			33.6526	84.1	-15.9	28.5
WXX100108-08CRI	Nitrobenzene	123 > 46	13.54	251.050	2720.792	251.050	46.135	bb			46.7712	116.9	16.9	30.5
WXX100108-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	336.755	16177.508	336.755	10.408	MM	11-Jan-10	09:06:10	36.9122	92.3	-7.7	31.9
WXX100108-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.44	533.268	16177.508	533.268	16.482	bb			44.7566	111.9	11.9	34.3
WXX100108-08CRI	246-Trinitrotoluene	227 > 210	15.38	400.744	16177.508	400.744	12.386	bb			38.2846	95.7	-4.3	31.7
WXX100108-08CRI	34-dinitrotoluene	182 > 152	14.30	626.704	16177.508	626.704	19.370	bb			21.5897	107.9	7.9	28.9
WXX100108-08CRI	26-dinitrotoluene	182 > 152	17.51	1393.554	16177.508	1393.554	43.071	MM	11-Jan-10	09:14:56	38.0504	95.1	-4.9	67.5
WXX100108-08CRI	24-dinitrotoluene	182 > 152	18.17	346.954	16177.508	346.954	10.723	MM	11-Jan-10	09:23:22	43.9741	109.9	9.9	12.9
WXX100108-08CRI	26-dinitrotoluene-d3	185 > 155	17.34	16177.508	16177.508	16177.508	16177.508	bb			479.0125	95.8	-4.2	801.7
WXX100108-08CRI	2-Nitrotoluene	137 > 46	20.97	218.959	16177.508	218.959	6.767	bb			43.7776	109.4	9.4	47.3
WXX100108-08CRI	4-Nitrotoluene	137 > 46	22.32	97.162	16177.508	97.162	3.003	bb			35.5764	88.9	-11.1	21.4
WXX100108-08CRI	3-Nitrotoluene	137 > 46	23.97	143.475	16177.508	143.475	4.434	bb			44.2717	110.7	10.7	28.3
WXX100108-08CRI	PETN	361 > 62	24.49	3387.729	16177.508	3387.729	104.705	bb			57.1628	142.9	42.9	920.7

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/09/10
 Time of Injection 2017
 Standard Number WXX100108-08CRI
 Data File EXP0108056a

HMX	109.0
RDX	109.7
135-TNB	148.2
13-DNB	107.7
Tetryl	84.1
Nitrobenzene	116.9
4A-26-DNT	92.3
2A-46-DNT	111.9
246-TNT	95.7
34-DNT(surr)	107.9
26-DNT	95.1
24-DNT	109.9
2-NT	109.4
4-NT	88.9
3-NT	110.7
PETN	142.9

*with
1/11/10*

Total 1740.3

Average 108.8

time 01/11/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108066a

Analysis Date: 10-JAN-10 01:13

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	600	571.489	95	
m-Nitrotoluene	600	407.7	68	*
o-Nitrotoluene	600	451.552	75	*
p-Nitrotoluene	600	433.745	72	*
1,3,5-Trinitrobenzene	600	637.826	106	
1,3-Dinitrobenzene-d4	500	554.289	111	
2,4,6-Trinitrotoluene	600	790.151	132	*
2,4-Dinitrotoluene	600	601.975	100	
2,6-Dinitrotoluene	600	582.905	97	
2,6-Dinitrotoluene-d3	500	575.13	115	
2-Amino-4,6-dinitrotoluene	600	641.928	107	
3,4-Dinitrotoluene	300	305.145	102	
4-Amino-2,6-dinitrotoluene	600	585.652	98	
HMX	600	500.389	83	
Nitrobenzene	600	569.202	95	
PETN	600	542.393	90	
RDX	600	593.14	99	
Tetryl	600	538.678	90	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108066a

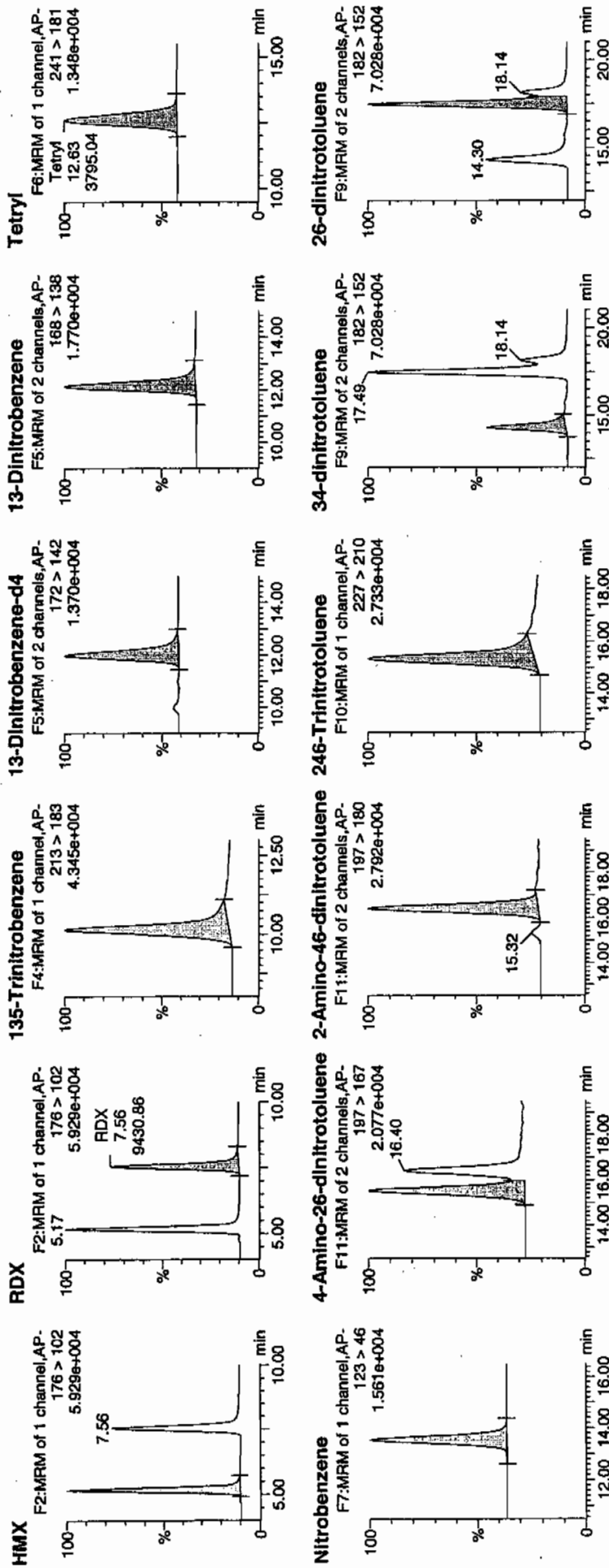
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Time: 01:13:31

ID: WXX100108-07CCV

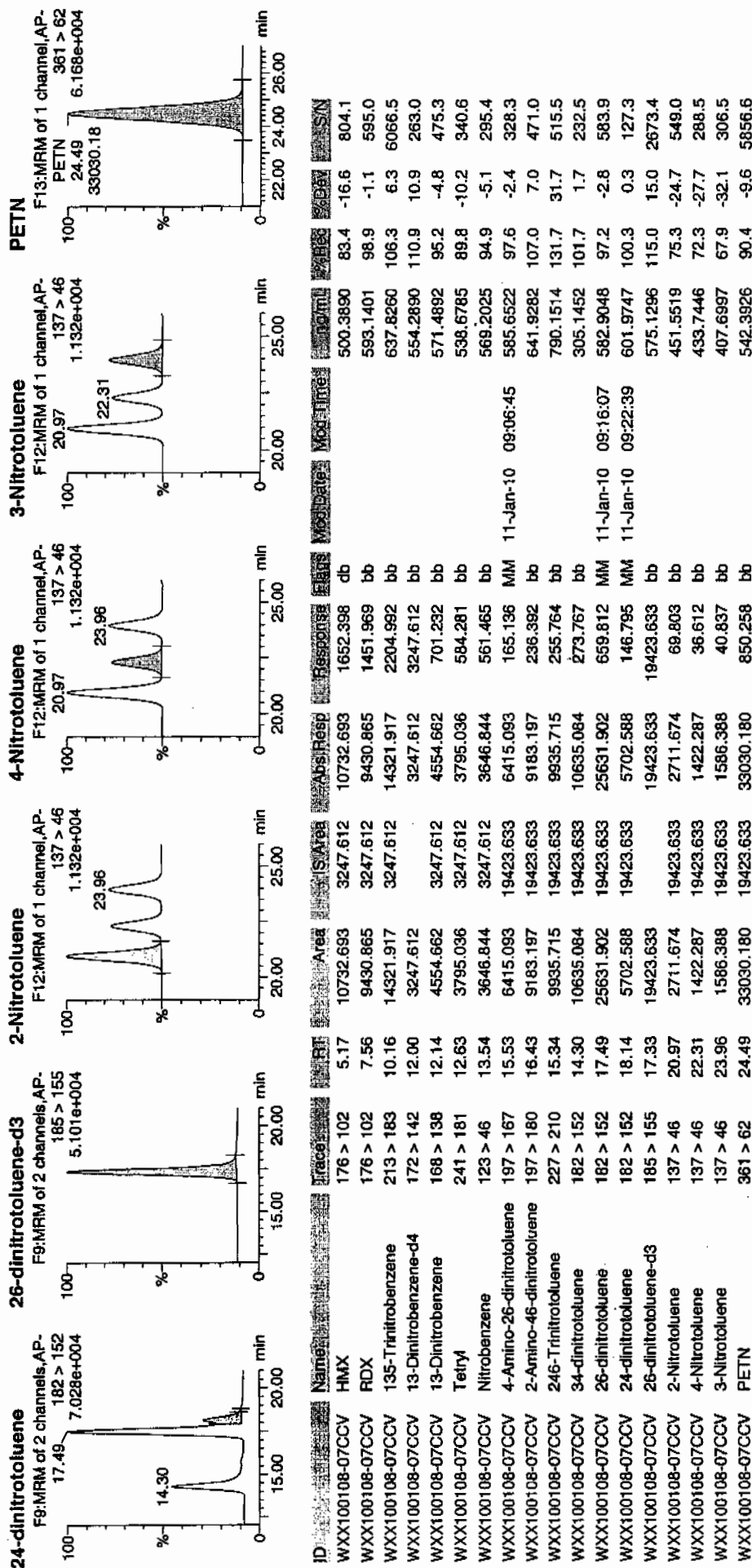
Vial: 1:1,B

1/11/10



Handwritten note: 1/11/10

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/10/10
 Time of Injection: 0113
 Standard Number: WXX100108-07CCV
 Data File: EXP0108066a

HMX	83.4
RDX	98.9
135-TNB	106.3
13-DNB	95.2
Tetryl	89.8
Nitrobenzene	94.9
4A-26-DNT	97.6
2A-46-DNT	107.0
246-TNT	131.7
34-DNT(surr)	101.7
26-DNT	97.2
24-DNT	100.3
2-NT	75.3
4-NT	72.3
3-NT	67.9
PETN	90.4

WAF
1/11/10

Total 1509.9

Average 94.4

from 01/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108068a

Analysis Date: 10-JAN-10 02:12

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	17.76	89	
4-Amino-2,6-dinitrotoluene	40	38.627	97	
HMX	40	52.773	132	*
Nitrobenzene	40	36.499	91	
PETN	40	53.186	133	*
RDX	40	42.566	106	
Tetryl	40	39.965	100	
m-Dinitrobenzene	40	42.808	107	
m-Nitrotoluene	40	47.09	118	
o-Nitrotoluene	40	38.112	95	
p-Nitrotoluene	40	41.342	103	
1,3,5-Trinitrobenzene	40	52.772	132	*
1,3-Dinitrobenzene-d4	500	489.728	98	
2,4,6-Trinitrotoluene	40	47.037	118	
2,4-Dinitrotoluene	40	38.543	96	
2,6-Dinitrotoluene	40	42.215	106	
2,6-Dinitrotoluene-d3	500	499.867	100	
2-Amino-4,6-dinitrotoluene	40	39.507	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108068a

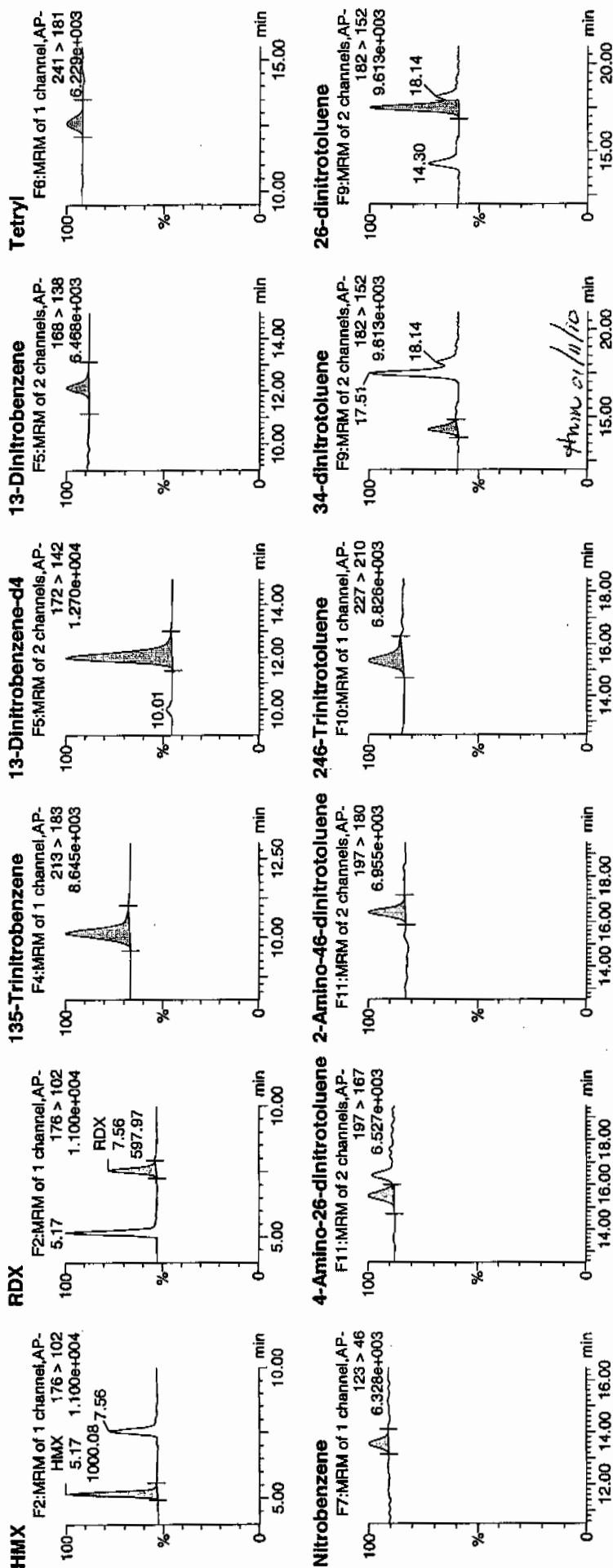
Date: 10-Jan-2010

Time: 02:12:36

ID: WXX100108-08CRI

Vial: 1:1,C

WXX
1/11/10

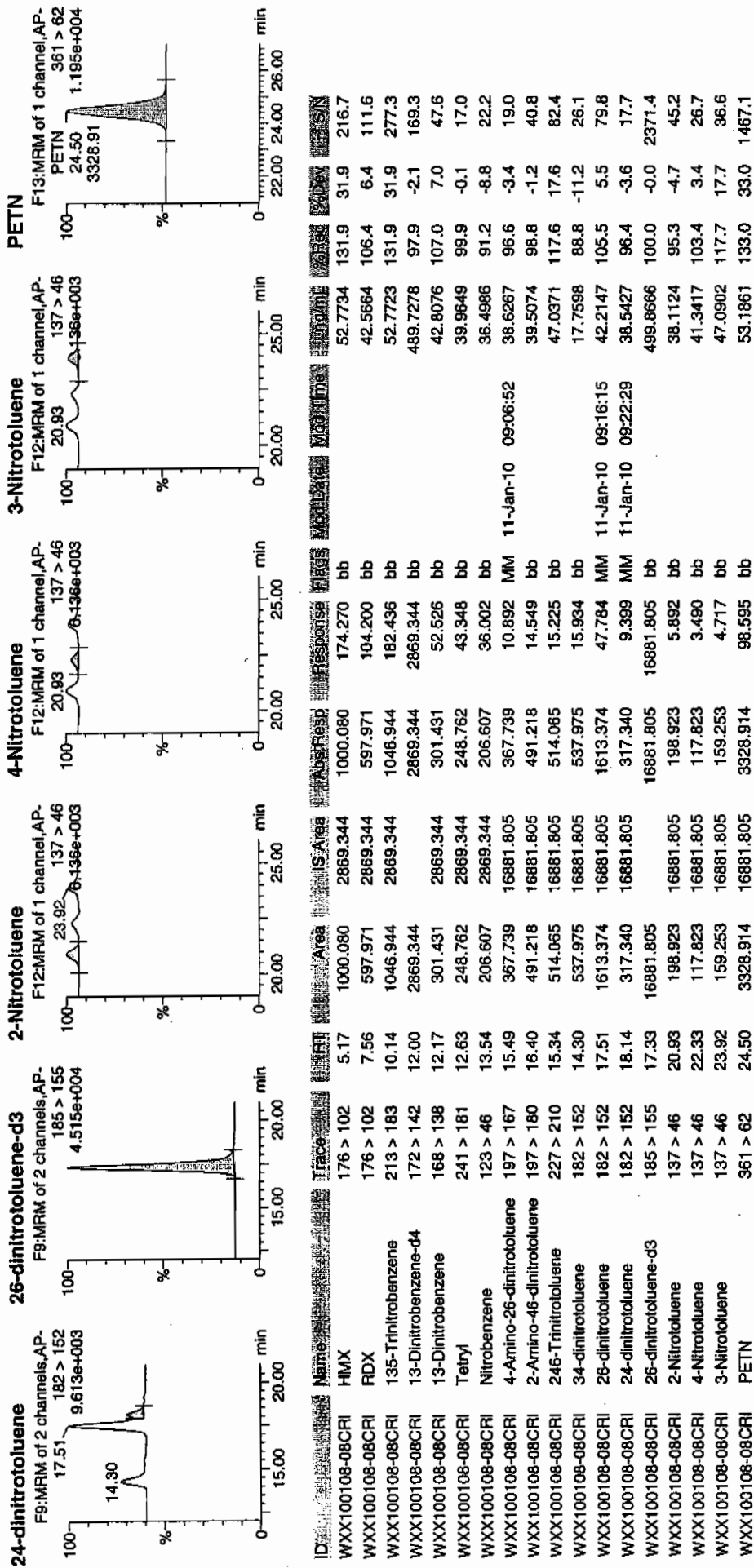


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 76 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/10/10
 Time of Injection 0212
 Standard Number WXX100108-08CRI
 Data File EXP0108068a

HMX	131.9
RDX	106.4
135-TNB	131.9
13-DNB	107.0
Tetryl	99.9
Nitrobenzene	91.2
4A-26-DNT	96.6
2A-46-DNT	98.8
246-TNT	117.6
34-DNT(surr)	88.8
26-DNT	105.5
24-DNT	96.4
2-NT	95.3
4-NT	103.4
3-NT	117.7
PETN	133.0

*WTF
1/11/10*

Total 1721.4

Average 107.6

Time 01/10/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108091a

Analysis Date: 10-JAN-10 13:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	600	667.151	111	
3,4-Dinitrotoluene	300	291.884	97	
4-Amino-2,6-dinitrotoluene	600	599.072	100	
HMX	600	647.797	108	
Nitrobenzene	600	571.253	95	
PETN	600	710.624	118	
RDX	600	698.264	116	
Tetryl	600	543.131	91	
m-Dinitrobenzene	600	619.419	103	
m-Nitrotoluene	600	512.942	85	
o-Nitrotoluene	600	583.602	97	
p-Nitrotoluene	600	560.912	93	
1,3,5-Trinitrobenzene	600	650.958	108	
1,3-Dinitrobenzene-d4	500	458.91	92	
2,4,6-Trinitrotoluene	600	699.324	117	
2,4-Dinitrotoluene	600	592.866	99	
2,6-Dinitrotoluene	600	564.473	94	
2,6-Dinitrotoluene-d3	500	474.354	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
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108091a

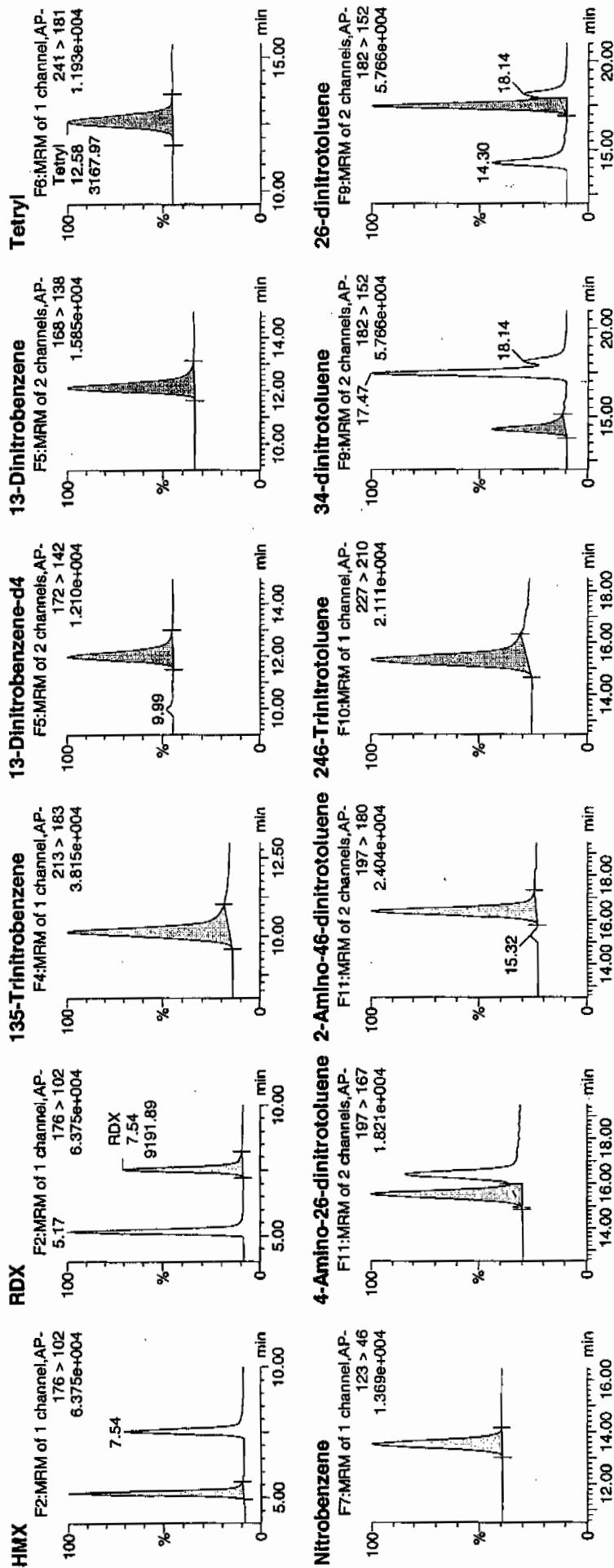
Date: 10-Jan-2010

Time: 13:31:19

ID: WXX100108-07CCV

Vial: 1:1,B

Handwritten: 1/11/10



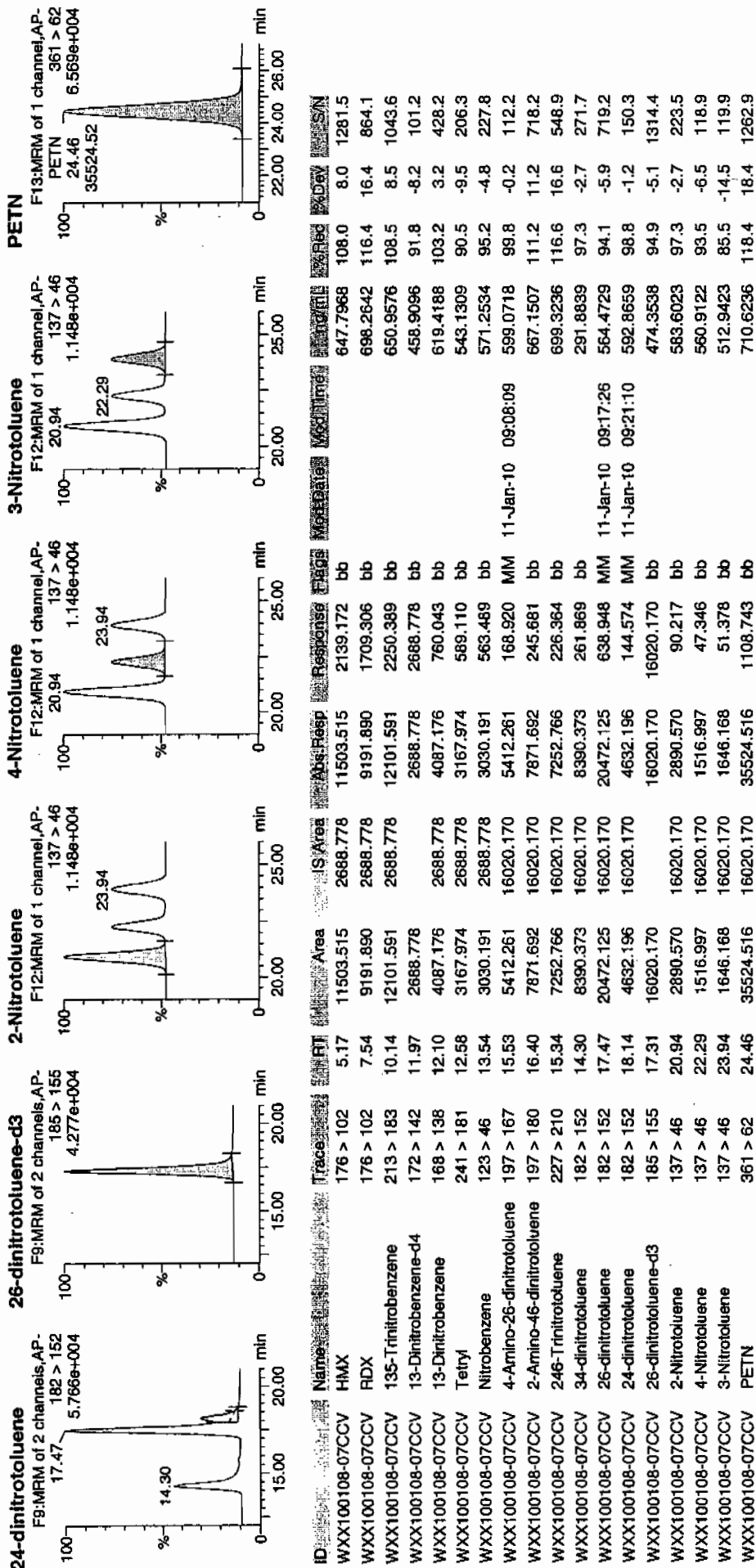
Handwritten: 1/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 122 of 189

Dataset: C:\MASSLYNX\New_Exp\PROV010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/10/10
 Time of Injection: 1331
 Standard Number: WXX100108-07CCV
 Data File: EXP0108091a

HMX	108.0
RDX	116.4
135-TNB	108.5
13-DNB	103.2
Tetryl	90.5
Nitrobenzene	95.2
4A-26-DNT	99.8
2A-46-DNT	111.2
246-TNT	116.6
34-DNT(surr)	97.3
26-DNT	94.1
24-DNT	98.8
2-NT	97.3
4-NT	93.5
3-NT	85.5
PETN	118.4

MTT
1/11/10

Total 1634.3

Average 102.1

1/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108093a

Analysis Date: 10-JAN-10 14:30

LCMSMS ID: 903

Column ID: Phenomenex Ultra carb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	55.778	139	*
1,3-Dinitrobenzene-d4	500	485.529	97	
2,4,6-Trinitrotoluene	40	42.864	107	
2,4-Dinitrotoluene	40	40.064	100	
2,6-Dinitrotoluene	40	37.592	94	
2,6-Dinitrotoluene-d3	500	487.002	97	
2-Amino-4,6-dinitrotoluene	40	40.747	102	
3,4-Dinitrotoluene	20	23.656	118	
4-Amino-2,6-dinitrotoluene	40	41.941	105	
HMX	40	47.029	118	
Nitrobenzene	40	39.943	100	
PETN	40	62.987	157	*
RDX	40	41.581	104	
Tetryl	40	41.48	104	
m-Dinitrobenzene	40	34.915	87	
m-Nitrotoluene	40	46.334	116	
o-Nitrotoluene	40	48.232	121	
p-Nitrotoluene	40	37.864	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\1010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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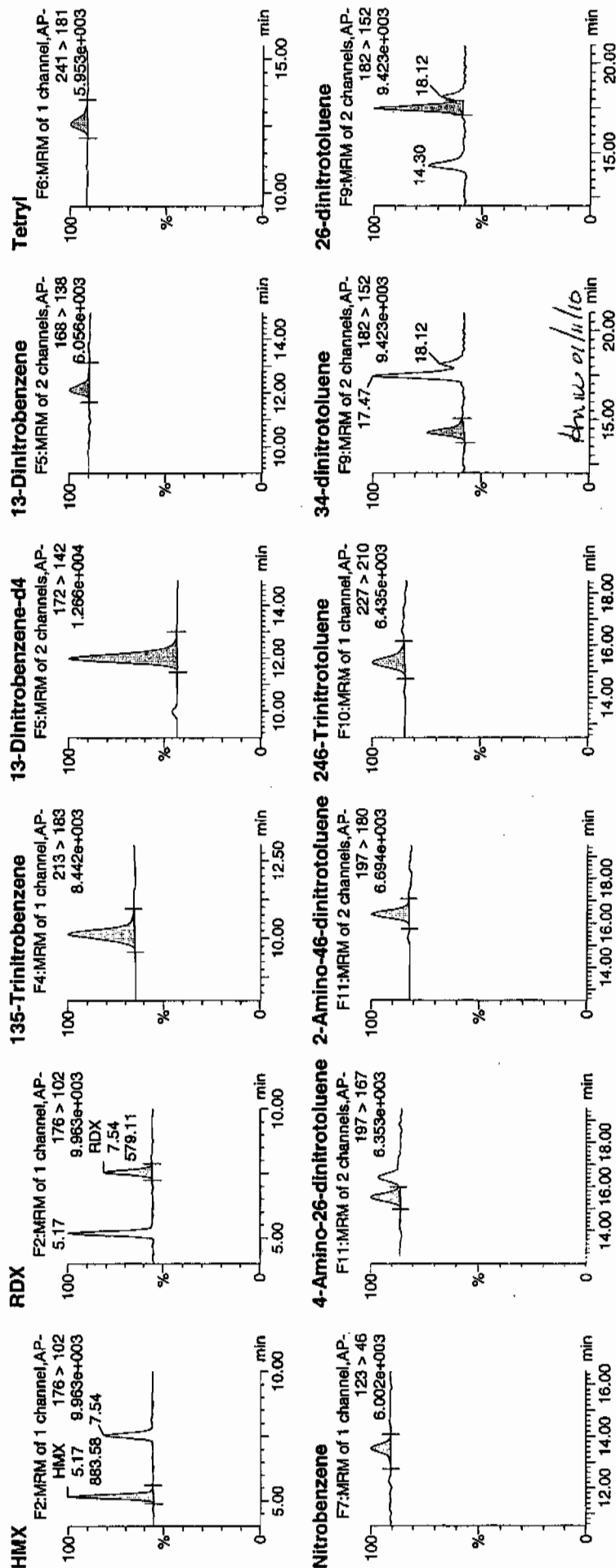
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Time: 14:30:21

ID: WXX100108-08CRI

Vial: 1:1,C

1/11/10
11/11/10

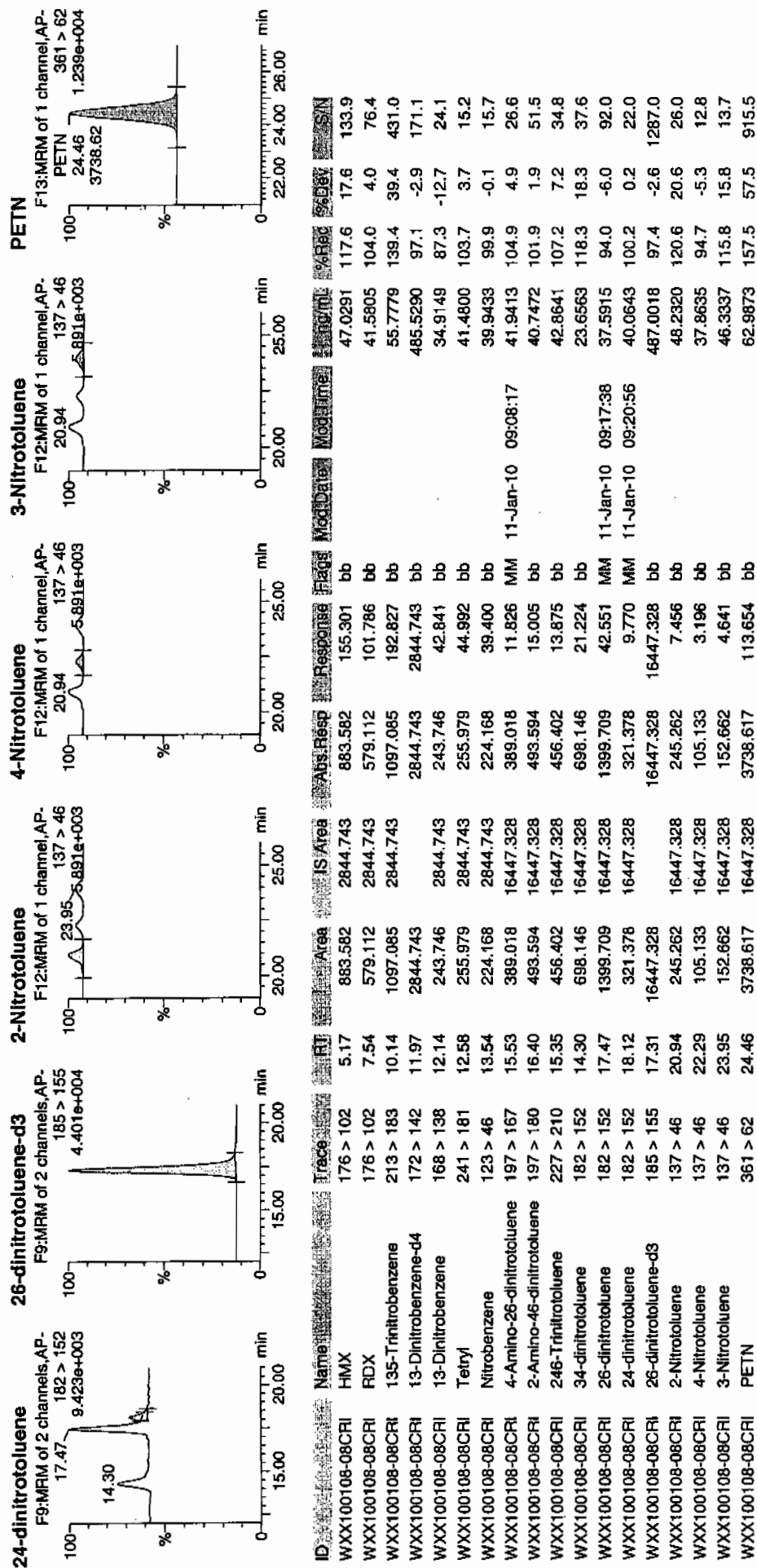


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 126 of 189

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/10/10
 Time of Injection 1430
 Standard Number WXX100108-08CRI
 Data File EXP0108093a

HMX	117.6
RDX	104.0
135-TNB	139.4
13-DNB	87.3
Tetryl	103.7
Nitrobenzene	99.9
4A-26-DNT	104.9
2A-46-DNT	101.9
246-TNT	107.2
34-DNT(surr)	118.3
26-DNT	94.0
24-DNT	100.2
2-NT	120.6
4-NT	94.7
3-NT	115.8
PETN	157.5

*WXX
1/11/10*

Total 1767.0

01/11/10

Average 110.4

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108104a

Analysis Date: 10-JAN-10 19:54

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	615.288	103	
p-Nitrotoluene	600	559.742	93	
1,3,5-Trinitrobenzene	600	622.64	104	
1,3-Dinitrobenzene-d4	500	480.709	96	
2,4,6-Trinitrotoluene	600	691.061	115	
2,4-Dinitrotoluene	600	600.835	100	
2,6-Dinitrotoluene	600	573.631	96	
2,6-Dinitrotoluene-d3	500	446.002	89	
2-Amino-4,6-dinitrotoluene	600	688.053	115	
3,4-Dinitrotoluene	300	307.229	102	
4-Amino-2,6-dinitrotoluene	600	597.117	100	
HMX	600	590.294	98	
Nitrobenzene	600	546.9	91	
PETN	600	753.361	126	*
RDX	600	638.442	106	
Tetryl	600	483.476	81	
m-Dinitrobenzene	600	565.448	94	
m-Nitrotoluene	600	524.965	87	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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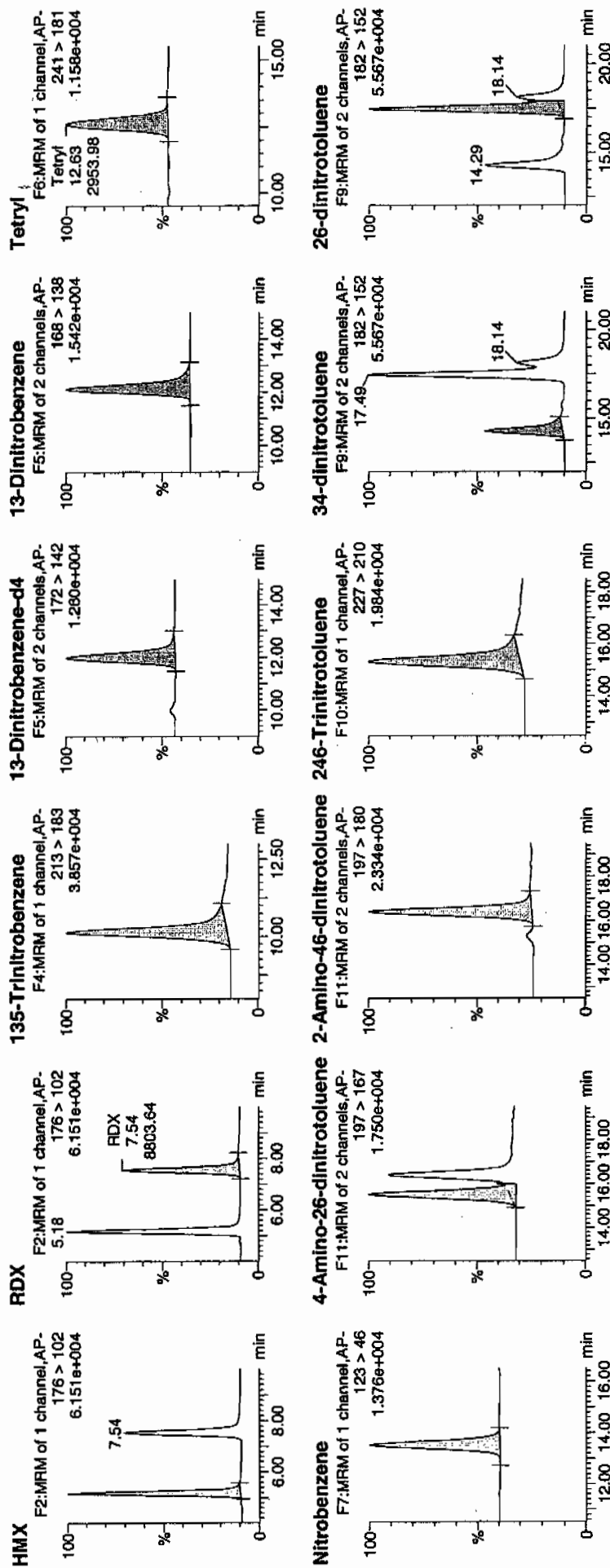
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Time: 19:54:49

ID: WXX100108-07CCV

Vial: 1:1,B

1/11/10



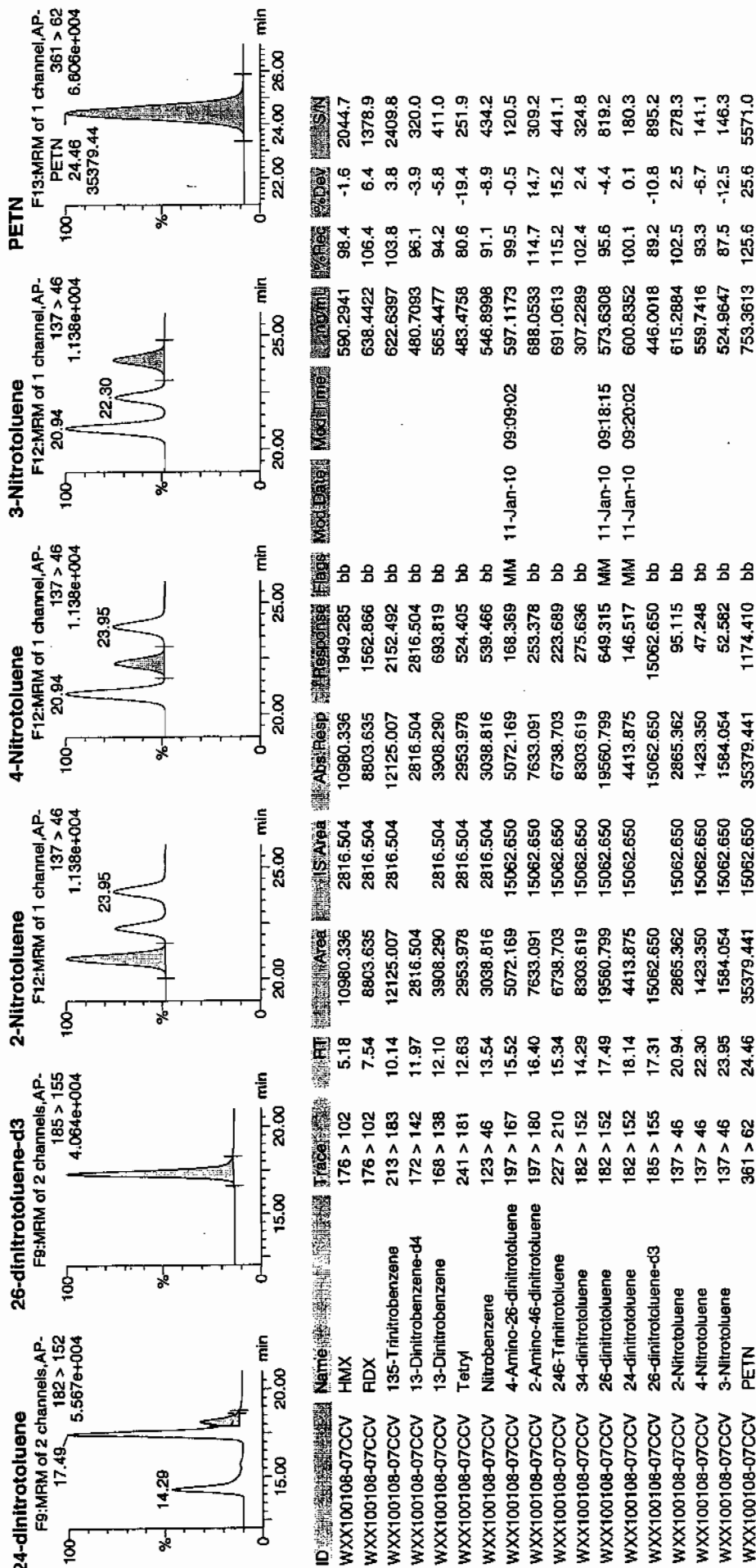
1/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 148 of 189

Dataset: C:\MASSLYNX\New_Exp_PROV010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/10/10
 Time of Injection: 1954
 Standard Number: WXX100108-07CCV
 Data File: EXP0108104a

HMX	98.4
RDX	106.4
135-TNB	103.8
13-DNB	94.2
Tetryl	80.6
Nitrobenzene	91.1
4A-26-DNT	99.5
2A-46-DNT	114.7
246-TNT	115.2
34-DNT(surr)	102.4
26-DNT	95.6
24-DNT	100.1
2-NT	102.5
4-NT	93.3
3-NT	87.5
PETN	125.6

11/11/10

Total 1610.9

Average 100.7

11/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108106a

Analysis Date: 10-JAN-10 20:53

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	40	39.9	100	
PETN	40	57.568	144	*
RDX	40	45.132	113	
Tetryl	40	46.537	116	
m-Dinitrobenzene	40	40.055	100	
m-Nitrotoluene	40	36.54	91	
o-Nitrotoluene	40	44.173	110	
p-Nitrotoluene	40	42.407	106	
1,3,5-Trinitrobenzene	40	59.238	148	*
1,3-Dinitrobenzene-d4	500	493.386	99	
2,4,6-Trinitrotoluene	40	37.6	94	
2,4-Dinitrotoluene	40	38.936	97	
2,6-Dinitrotoluene	40	43.405	109	
2,6-Dinitrotoluene-d3	500	521.469	104	
2-Amino-4,6-dinitrotoluene	40	43.784	109	
3,4-Dinitrotoluene	20	18.648	93	
4-Amino-2,6-dinitrotoluene	40	43.699	109	
HMX	40	48.31	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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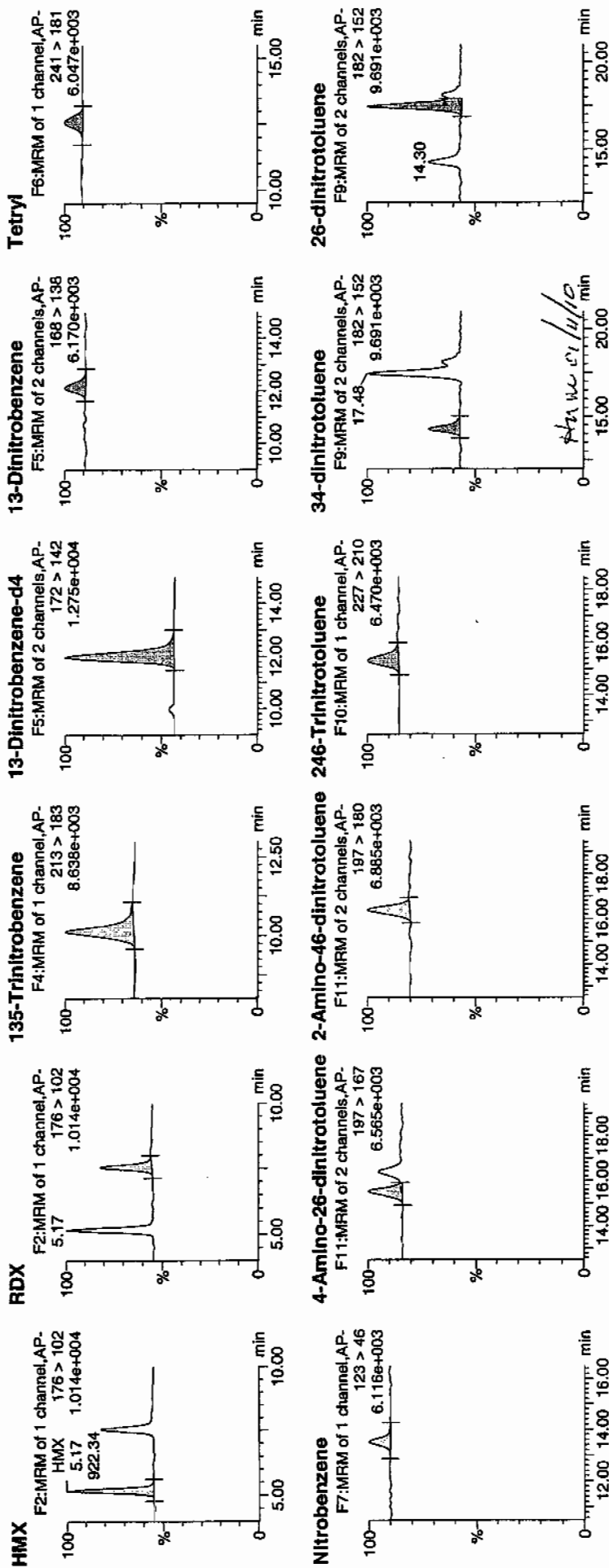
Date: 10-Jan-2010

Time: 20:53:52

ID: WXX100108-08CRI

Vial: 1:1,C

WXX
1/11/10

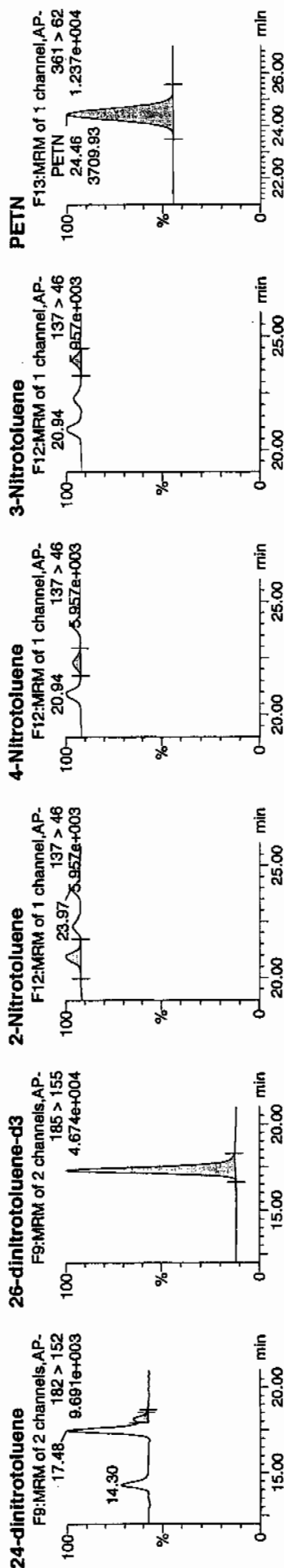


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 152 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N	
WXX100108-08CRI	HMX	176 > 102	5.17	922.336	2890.776	922.336	159.531	bb		48.3101	120.8	20.8	146.3	
WXX100108-08CRI	RDX	176 > 102	7.54	638.743	2890.776	638.743	110.480	bb		45.1317	112.8	12.8	86.7	
WXX100108-08CRI	135-Trinitrobenzene	213 > 183	10.14	1183.993	2890.776	1183.993	204.788	bb		59.2379	148.1	48.1	349.9	
WXX100108-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	2890.776		2890.776	2890.776	bb		493.3857	98.7	-1.3	499.6	
WXX100108-08CRI	13-Dinitrobenzene	168 > 138	12.14	284.154	2890.776	284.154	49.148	bb		40.0549	100.1	0.1	13.6	
WXX100108-08CRI	Tetryl	241 > 181	12.63	291.835	2890.776	291.835	50.477	bb		46.5373	116.3	16.3	60.1	
WXX100108-08CRI	Nitrobenzene	123 > 46	13.50	227.546	2890.776	227.546	39.357	bb		39.8996	99.7	-0.3	19.7	
WXX100108-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	434.011	17611.391	434.011	12.322	MM	11-Jan-10	09:09:14	43.6993	109.2	9.2	36.8
WXX100108-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.41	567.918	17611.391	567.918	16.124	bb		43.7840	109.5	9.5	48.4	
WXX100108-08CRI	246-Trinitrotoluene	227 > 210	15.31	428.684	17611.391	428.684	12.171	bb		37.5998	94.0	-6.0	56.2	
WXX100108-08CRI	34-dinitrotoluene	182 > 152	14.30	589.281	17611.391	589.281	16.730	bb		18.6477	93.2	-6.8	20.7	
WXX100108-08CRI	26-dinitrotoluene	182 > 152	17.48	1730.544	17611.391	1730.544	49.131	MM	11-Jan-10	09:18:25	43.4046	108.5	8.5	62.1
WXX100108-08CRI	24-dinitrotoluene	182 > 152	18.16	334.430	17611.391	334.430	9.495	MM	11-Jan-10	09:19:53	38.9357	97.3	-2.7	11.9
WXX100108-08CRI	26-dinitrotoluene-d3	185 > 155	17.31	17611.391		17611.391	17611.391	bb		521.4695	104.3	4.3	1061.1	
WXX100108-08CRI	2-Nitrotoluene	137 > 46	20.94	240.521	17611.391	240.521	6.829	bb		44.1733	110.4	10.4	94.4	
WXX100108-08CRI	4-Nitrotoluene	137 > 46	22.29	126.081	17611.391	126.081	3.580	bb		42.4066	106.0	6.0	48.2	
WXX100108-08CRI	3-Nitrotoluene	137 > 46	23.97	128.914	17611.391	128.914	3.660	bb		36.5399	91.3	-6.7	55.5	
WXX100108-08CRI	PETN	361 > 62	24.46	3709.930	17611.391	3709.930	105.328	bb		57.5680	143.9	43.9	1249.0	

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/10/10
 Time of Injection 2053
 Standard Number WXX100108-08CRI
 Data File EXP0108106a

HMX	120.8
RDX	112.8
135-TNB	148.1
13-DNB	100.1
Tetryl	116.3
Nitrobenzene	99.7
4A-26-DNT	109.2
2A-46-DNT	109.5
246-TNT	94.0
34-DNT(surr)	93.2
26-DNT	108.5
24-DNT	97.3
2-NT	110.4
4-NT	106.0
3-NT	91.3
PETN	143.9

WAT
1/11/10

Total 1761.1

WAT 01/11/10

Average 110.1

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108116a

Analysis Date: 11-JAN-10 01:48

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	622.514	104	
1,3-Dinitrobenzene-d4	500	463.132	93	
2,4,6-Trinitrotoluene	600	688.281	115	
2,4-Dinitrotoluene	600	578.024	96	
2,6-Dinitrotoluene	600	572.44	95	
2,6-Dinitrotoluene-d3	500	479.71	96	
2-Amino-4,6-dinitrotoluene	600	667.775	111	
3,4-Dinitrotoluene	300	298.847	100	
4-Amino-2,6-dinitrotoluene	600	578.115	96	
HMX	600	634.379	106	
Nitrobenzene	600	534.73	89	
PETN	600	720.985	120	*
RDX	600	674.407	112	
Tetryl	600	509.619	85	
m-Dinitrobenzene	600	589.886	98	
m-Nitrotoluene	600	519.041	87	
o-Nitrotoluene	600	562.643	94	
p-Nitrotoluene	600	543.71	91	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

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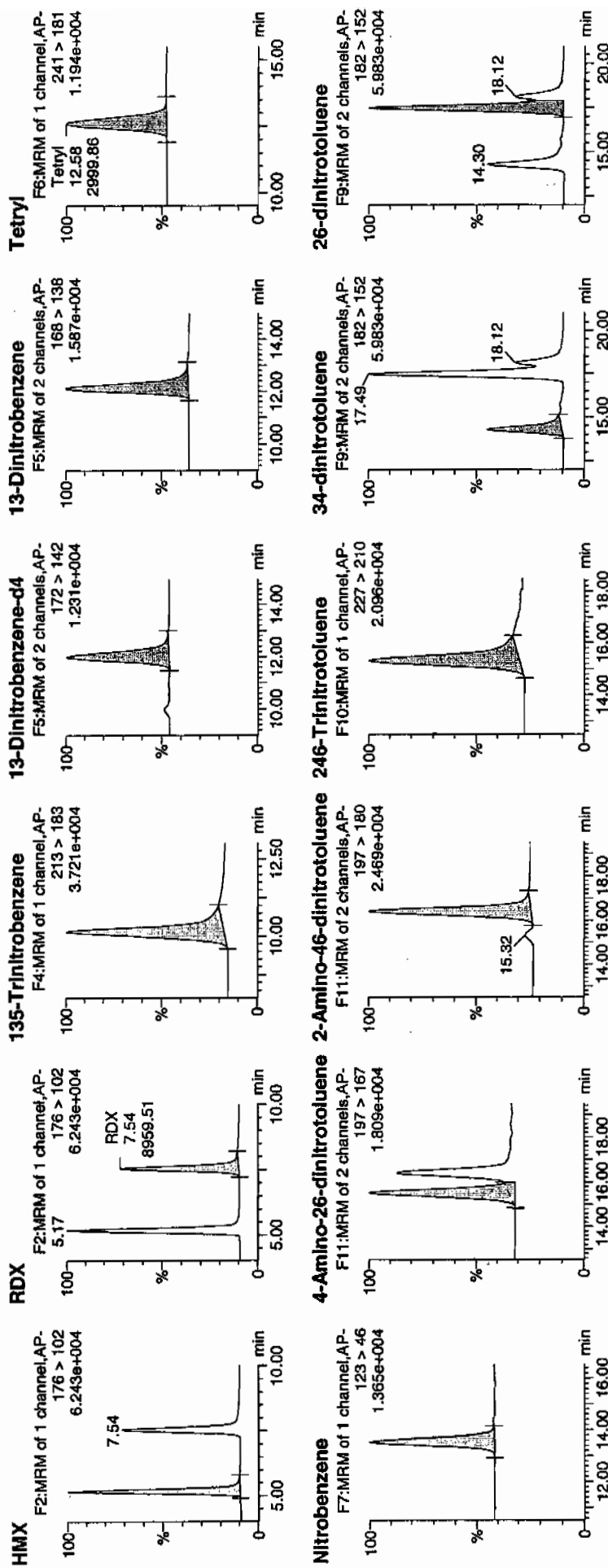
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Time: 01:48:48

ID: WXX100108-07CCV

Vial: 1:1,B

11/11/10



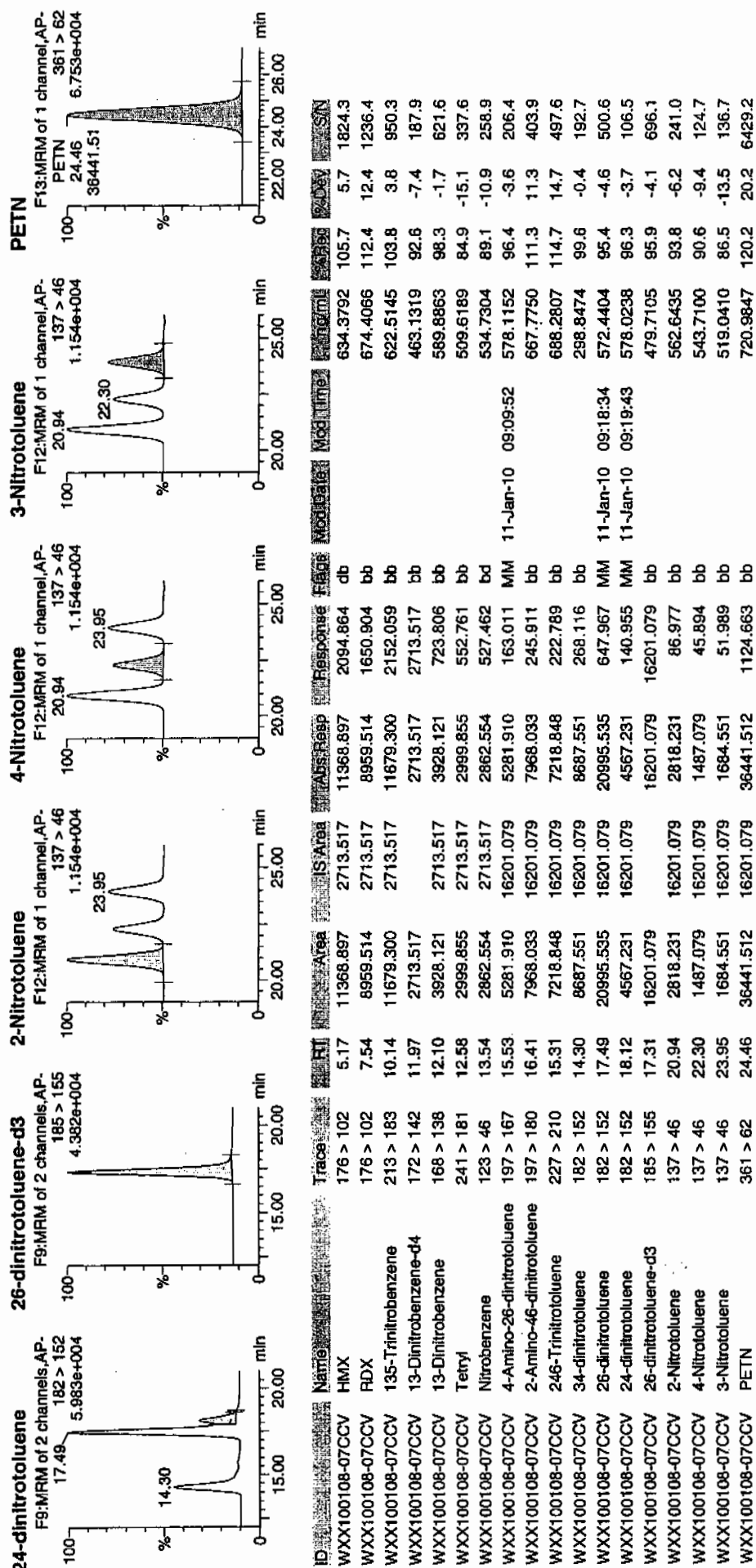
11/11/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 172 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/11/10
 Time of Injection: 0148
 Standard Number: WXX100108-07CCV
 Data File: EXP0108116a

HMX	105.7
RDX	112.4
135-TNB	103.8
13-DNB	98.3
Tetryl	84.9
Nitrobenzene	89.1
4A-26-DNT	96.4
2A-46-DNT	111.3
246-TNT	114.7
34-DNT(surr)	99.6
26-DNT	95.4
24-DNT	96.3
2-NT	93.8
4-NT	90.6
3-NT	86.5
PETN	120.2

*mt
1/11/10*

Total 1599.0

Average 99.9

from 01/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108118a

Analysis Date: 11-JAN-10 02:48

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	60.079	150	*
1,3-Dinitrobenzene-d4	500	485.965	97	
2,4,6-Trinitrotoluene	40	43.487	109	
2,4-Dinitrotoluene	40	44.401	111	
2,6-Dinitrotoluene	40	40.281	101	
2,6-Dinitrotoluene-d3	500	500.252	100	
2-Amino-4,6-dinitrotoluene	40	44.722	112	
3,4-Dinitrotoluene	20	24.485	122	
4-Amino-2,6-dinitrotoluene	40	36.486	91	
HMX	40	49.203	123	
Nitrobenzene	40	34.055	85	
PETN	40	61.76	154	*
RDX	40	42.499	106	
Tetryl	40	38.427	96	
m-Dinitrobenzene	40	42.478	106	
m-Nitrotoluene	40	35.501	89	
o-Nitrotoluene	40	41.799	104	
p-Nitrotoluene	40	35.275	88	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp\PROV010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

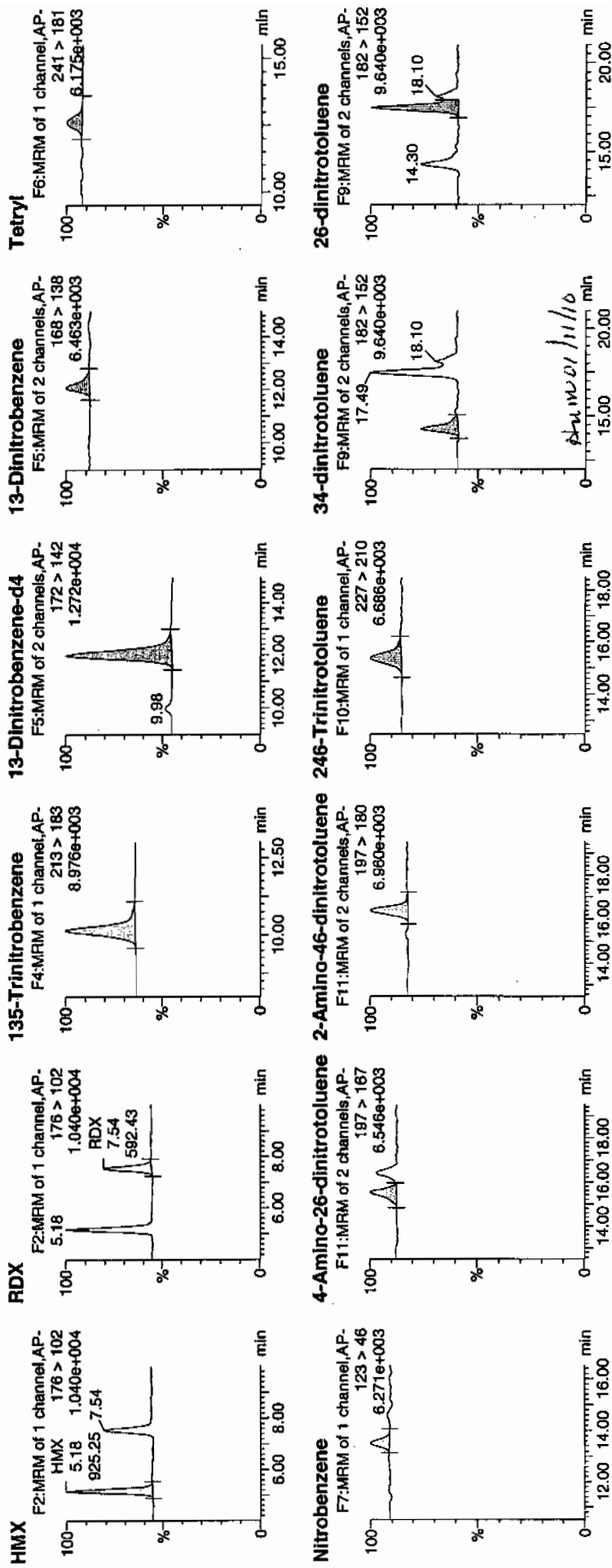
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Date: 11-Jan-2010

Time: 02:48:06

ID: WXX100108-08CRI

Vial: 1:1,C

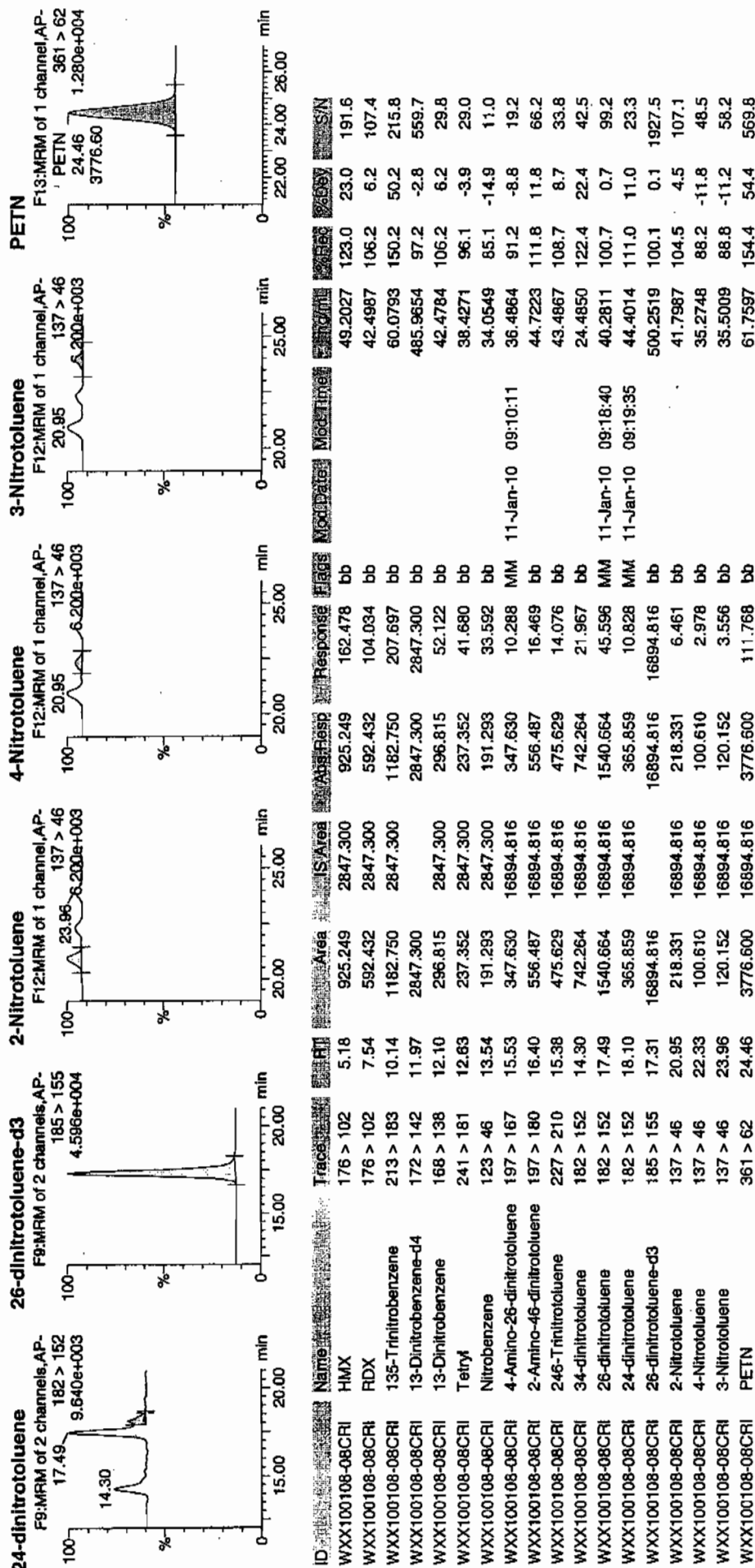


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 176 of 189

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/11/10
 Time of Injection 0248
 Standard Number WXX100108-08CRI
 Data File EXP0108118a

HMX	123.0	✓
RDX	106.2	✓
135-TNB	150.2	✓
13-DNB	106.2	
Tetryl	96.1	
Nitrobenzene	85.1	
4A-26-DNT	91.2	
2A-46-DNT	111.8	
246-TNT	108.7	
34-DNT(surr)	122.4	
26-DNT	100.7	
24-DNT	111.0	
2-NT	104.5	
4-NT	88.2	
3-NT	88.8	
PETN	154.4	✓

Total 1748.5

Average 109.3 ✓

*WAT
1/11/10*

done 01/11/10

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%
No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108122a

Analysis Date: 11-JAN-10 04:46

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	696.065	116	
HMX	600	564.574	94	
Nitrobenzene	600	544.062	91	
PETN	600	601.832	100	
RDX	600	647.427	108	
Tetryl	600	518.308	86	
m-Dinitrobenzene	600	588.365	98	
m-Nitrotoluene	600	469.976	78	*
o-Nitrotoluene	600	505.642	84	
p-Nitrotoluene	600	496.791	83	
1,3,5-Trinitrobenzene	600	640.957	107	
1,3-Dinitrobenzene-d4	500	551.056	110	
2,4,6-Trinitrotoluene	600	840.403	140	*
2,4-Dinitrotoluene	600	611.215	102	
2,6-Dinitrotoluene	600	576.458	96	
2,6-Dinitrotoluene-d3	500	556.695	111	
2-Amino-4,6-dinitrotoluene	600	679.039	113	
3,4-Dinitrotoluene	300	319.225	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\10810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0108122a

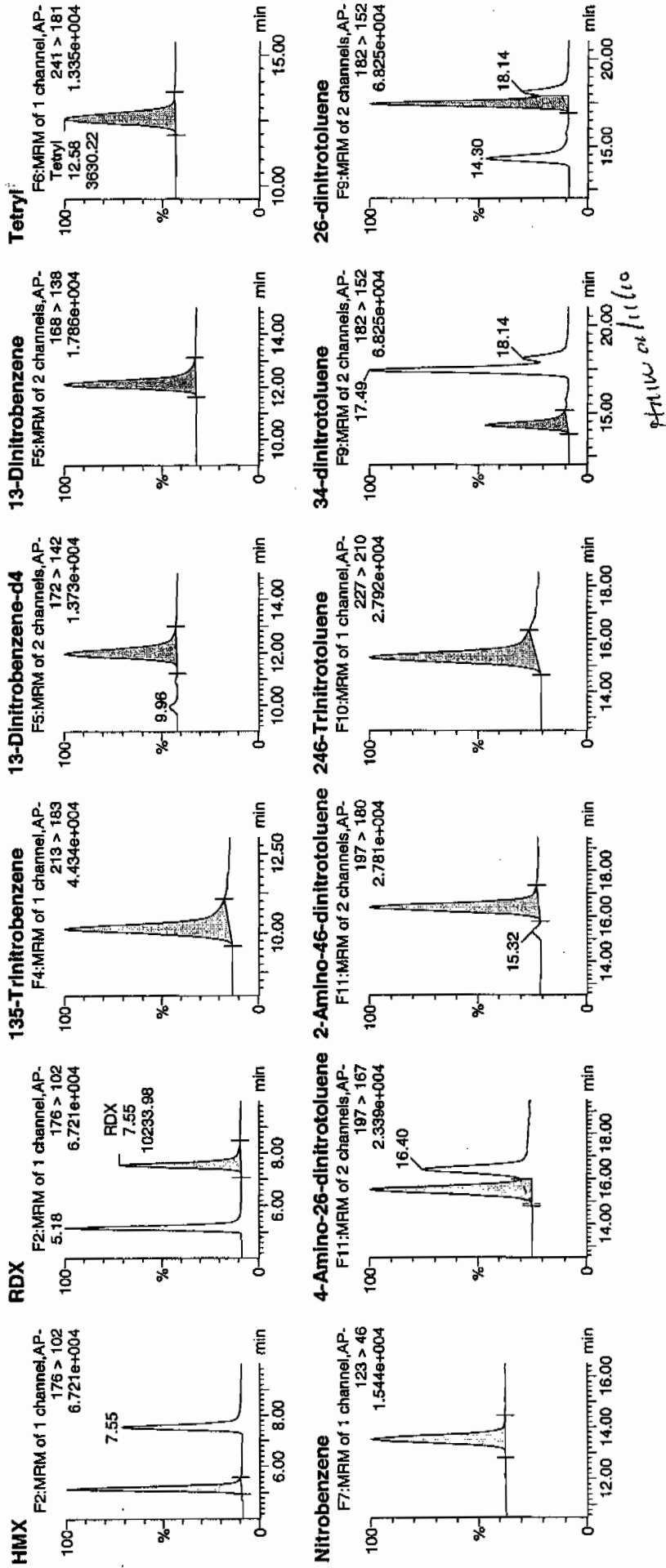
Date: 11-Jan-2010

Time: 04:46:07

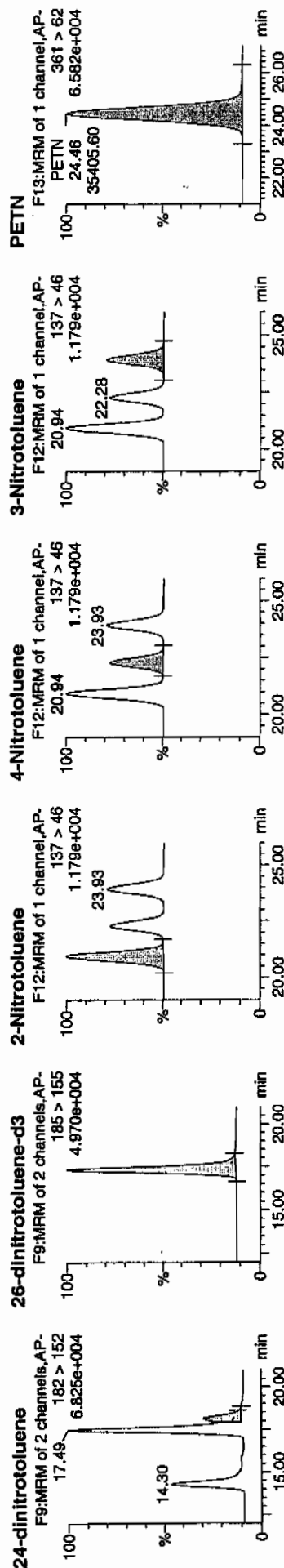
ID: WXX100108-07CCV

Vial: 1:1,B

Handwritten: 1/11/10



Dataset: C:\MASSLYN\New Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



ID	Name	Trace	Fit	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Mod	Reg	Dev	SN	
WXX100108-07CCV	HMx	176 > 102	5.18	12038.732	3228.668	12038.732	1864.350	bb	564.5736	94.1	-5.9	1352.9			
WXX100108-07CCV	RDX	176 > 102	7.55	10233.975	3228.668	10233.975	1584.860	bb	647.4271	107.9	7.9	936.6			
WXX100108-07CCV	135-Trinitrobenzene	213 > 183	10.14	14308.263	3228.668	14308.263	2215.815	bb	640.9567	106.8	6.8	2210.4			
WXX100108-07CCV	13-Dinitrobenzene-d4	172 > 142	11.97	3228.668		3228.668	3228.668	bb	551.0558	110.2	10.2	413.8			
WXX100108-07CCV	13-Dinitrobenzene	168 > 138	12.14	4661.808	3228.668	4661.808	721.940	bb	588.3652	98.1	-1.9	225.7			
WXX100108-07CCV	Tetryl	241 > 181	12.58	3630.224	3228.668	3630.224	562.186	bb	518.3080	86.4	-13.6	300.4			
WXX100108-07CCV	Nitrobenzene	123 > 46	13.54	3465.437	3228.668	3465.437	536.667	bb	544.0820	90.7	-9.3	379.1			
WXX100108-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.53	7380.139	18801.045	7380.139	196.269	MM	11-Jan-10	09:10:41	116.0	16.0	694.6		
WXX100108-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.40	9402.721	18801.045	9402.721	250.058	bb	679.0388	113.2	13.2	424.1			
WXX100108-07CCV	246-Trinitrotoluene	227 > 210	15.35	10228.874	18801.045	10228.874	272.029	bb	840.4028	140.1	40.1	531.5			
WXX100108-07CCV	34-dinitrotoluene	182 > 152	14.30	10769.188	18801.045	10769.188	286.399	bb	319.2251	106.4	6.4	203.1			
WXX100108-07CCV	26-dinitrotoluene	182 > 152	17.49	24535.926	18801.045	24535.926	652.515	MM	11-Jan-10	09:18:52	96.1	-3.9	498.1		
WXX100108-07CCV	24-dinitrotoluene	182 > 152	18.14	5604.534	18801.045	5604.534	149.048	MM	11-Jan-10	09:19:22	101.9	1.9	106.0		
WXX100108-07CCV	26-dinitrotoluene-d3	185 > 155	17.31	18801.045		18801.045	18801.045	bb	556.6949	111.3	11.3	1311.2			
WXX100108-07CCV	2-Nitrotoluene	137 > 46	20.94	2939.167	18801.045	2939.167	78.165	bb	505.6417	84.3	-15.7	77.4			
WXX100108-07CCV	4-Nitrotoluene	137 > 46	22.28	1576.807	18801.045	1576.807	41.934	bb	496.7911	82.8	-17.2	42.4			
WXX100108-07CCV	3-Nitrotoluene	137 > 46	23.93	1770.094	18801.045	1770.094	47.074	bb	469.9761	78.3	-21.7	45.3			
WXX100108-07CCV	PETN	361 > 62	24.46	35405.598	18801.045	35405.598	941.586	bb	601.8321	100.3	0.3	6926.2			

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/11/10
 Time of Injection: 0446
 Standard Number: WXX100108-07CCV
 Data File: EXP0108122a

HMX	94.1
RDX	107.9
135-TNB	106.8
13-DNB	98.1
Tetryl	86.4
Nitrobenzene	90.7
4A-26-DNT	116.0
2A-46-DNT	113.2
246-TNT	140.1
34-DNT(surr)	106.4
26-DNT	96.1
24-DNT	101.9
2-NT	84.3
4-NT	82.8
3-NT	78.3
PETN	100.3

*MT
1/11/10*

Total 1603.4

from 01/11/10

Average 100.2

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108124a

Analysis Date: 11-JAN-10 05:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	40	39.568	99	
2,6-Dinitrotoluene	40	40.288	101	
2,6-Dinitrotoluene-d3	500	520.38	104	
2-Amino-4,6-dinitrotoluene	40	45.283	113	
3,4-Dinitrotoluene	20	22.502	113	
4-Amino-2,6-dinitrotoluene	40	37.754	94	
HMX	40	52.787	132	*
Nitrobenzene	40	41.315	103	
PETN	40	61.83	155	*
RDX	40	47.471	119	
Tetryl	40	38.1	95	
m-Dinitrobenzene	40	31.722	79	
m-Nitrotoluene	40	39.673	99	
o-Nitrotoluene	40	36.801	92	
p-Nitrotoluene	40	41.648	104	
1,3,5-Trinitrobenzene	40	63.528	159	*
1,3-Dinitrobenzene-d4	500	482.42	96	
2,4,6-Trinitrotoluene	40	39.914	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108124a

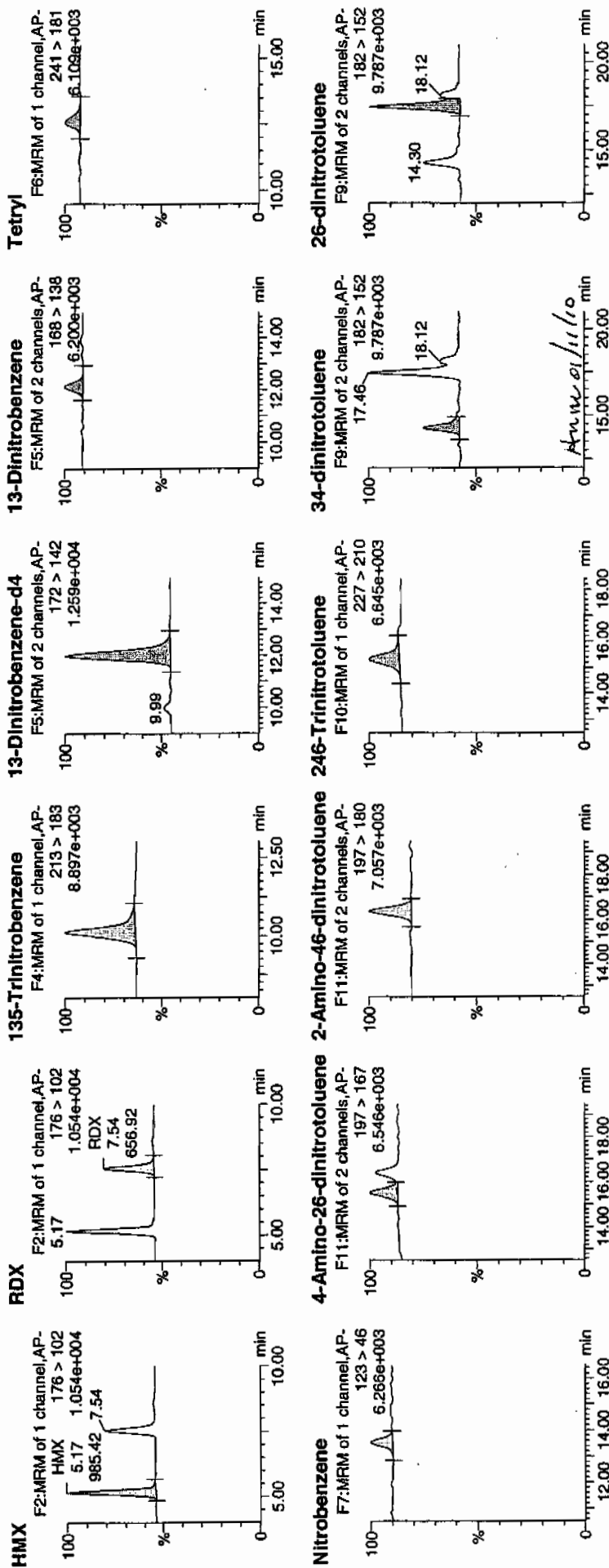
Date: 11-Jan-2010

Time: 05:45:09

ID: WXX100108-08CRI

Vial: 1:1,C

1/11/10

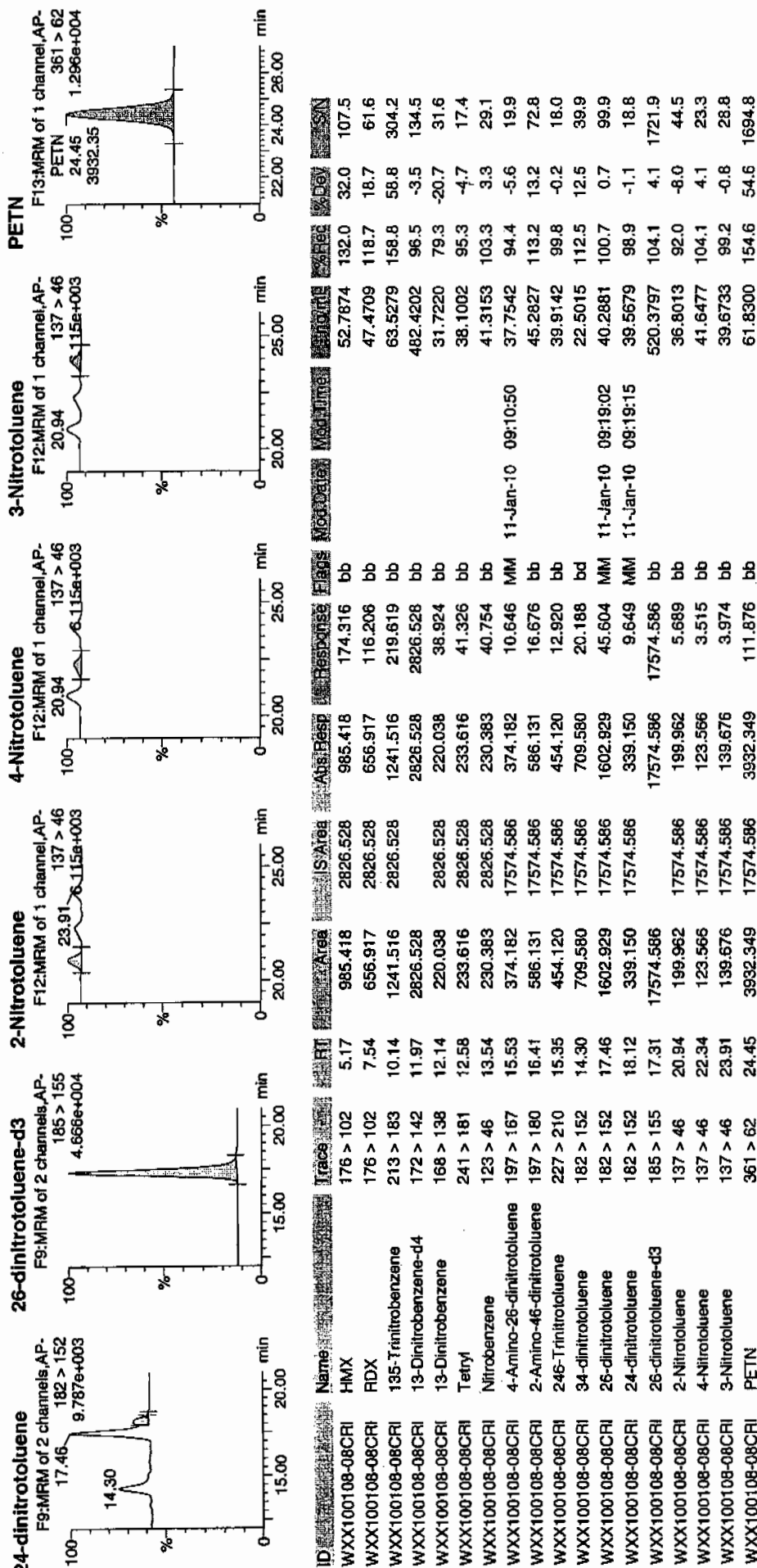


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Mon Jan 11 09:29:17 2010, Page 188 of 189

Dataset: C:\MASSL\YXXNew_Exp.PRO\010810expA1.qld, Time: Mon Jan 11 09:26:07 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/11/10
 Time of Injection 0545
 Standard Number WXX100108-08CRI
 Data File EXP0108124a

HMX	132.0
RDX	118.7
135-TNB	158.8
13-DNB	79.3
Tetryl	95.3
Nitrobenzene	103.3
4A-26-DNT	94.4
2A-46-DNT	113.2
246-TNT	99.8
34-DNT(surr)	112.5
26-DNT	100.7
24-DNT	98.9
2-NT	92.0
4-NT	104.1
3-NT	99.2
PETN	154.6

MTT
1/11/10

Total 1756.8

Average 109.8

MTT
1/11/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108134a

Analysis Date: 11-JAN-10 10:40

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	702.277	117	
1,3-Dinitrobenzene-d4	500	480.128	96	
2,4,6-Trinitrotoluene	600	674.894	112	
2,4-Dinitrotoluene	600	668.24	111	
2,6-Dinitrotoluene	600	575.058	96	
2,6-Dinitrotoluene-d3	500	460.405	92	
2-Amino-4,6-dinitrotoluene	600	688.362	115	
3,4-Dinitrotoluene	300	313.487	104	
4-Amino-2,6-dinitrotoluene	600	630.196	105	
HMX	600	662.534	110	
Nitrobenzene	600	525.078	88	
PETN	600	731.238	122	*
RDX	600	696.763	116	
Tetryl	600	504.878	84	
m-Dinitrobenzene	600	564.453	94	
m-Nitrotoluene	600	508.522	85	
o-Nitrotoluene	600	571.474	95	
p-Nitrotoluene	600	522.502	87	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

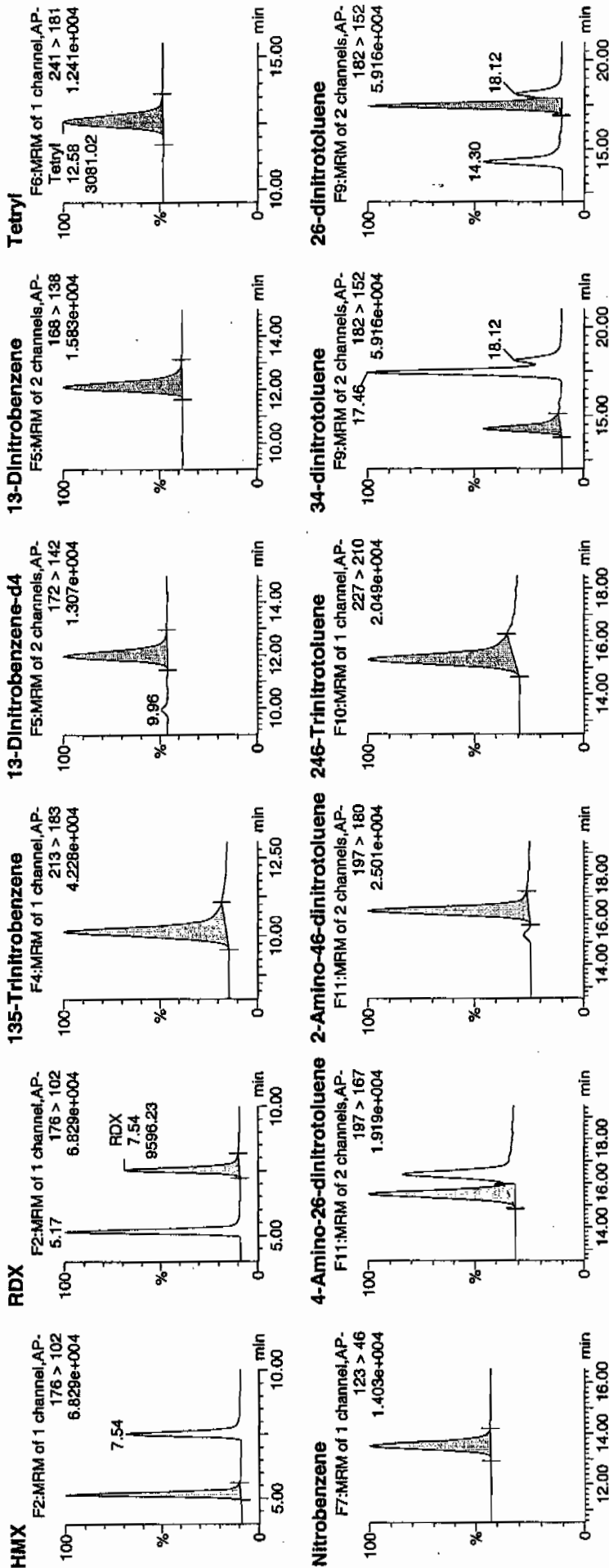
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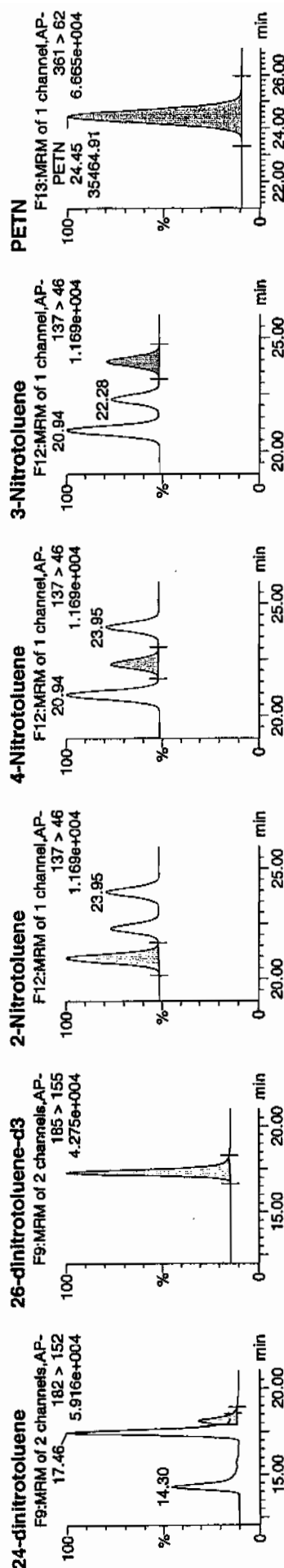
Date: 11-Jan-2010

Time: 10:40:20

ID: WXX100108-07CCV

Vial: 1:1,B

MM
01/12/10MM
01/12/10



Name	ID	Trace	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	TP (m)	Center	WPeak	SN
HMx	WX100108-07CCV	176 > 102	5.17	12309.217	2813.100	12309.217	2187.839	bb		682.5344	110.4	10.4	772.4
RDX	WX100108-07CCV	176 > 102	7.54	9596.228	2813.100	9596.228	1705.632	bb		696.7633	116.1	16.1	507.2
135-Trinitrobenzene	WX100108-07CCV	213 > 183	10.14	13659.292	2813.100	13659.292	2427.801	bb		702.2766	117.0	17.0	663.7
13-Dinitrobenzene-d4	WX100108-07CCV	172 > 142	11.97	2813.100		2813.100	2813.100	bb		480.1283	96.0	-4.0	325.4
13-Dinitrobenzene	WX100108-07CCV	168 > 138	12.10	3896.700	2813.100	3896.700	692.599	bb		564.4530	94.1	-5.9	357.1
Tetryl	WX100108-07CCV	241 > 181	12.58	3081.016	2813.100	3081.016	547.619	bb		504.8782	84.1	-15.9	392.0
Nitrobenzene	WX100108-07CCV	123 > 46	13.54	2914.040	2813.100	2914.040	517.941	bb		525.0783	87.5	-12.5	219.8
4-Amino-26-dinitrotoluene	WX100108-07CCV	197 > 167	15.53	5526.025	15549.083	5526.025	177.696	MM	12-Jan-10	10:05:33		5.0	272.4
2-Amino-46-dinitrotoluene	WX100108-07CCV	197 > 180	16.37	7883.125	15549.083	7883.125	253.492	bb		688.3616	114.7	14.7	321.5
246-Trinitrotoluene	WX100108-07CCV	187 > 210	15.31	6793.580	15549.083	6793.580	218.456	bb		674.8940	112.5	12.5	299.9
34-dinitrotoluene	WX100108-07CCV	182 > 152	14.30	8746.366	15549.083	8746.366	281.250	bb		313.4866	104.5	4.5	393.6
26-dinitrotoluene	WX100108-07CCV	182 > 152	17.46	20242.746	15549.083	20242.746	650.931	MM	12-Jan-10	10:15:58		-4.2	1010.0
24-dinitrotoluene	WX100108-07CCV	182 > 152	18.12	5067.582	15549.083	5067.582	162.954	MM	12-Jan-10	10:22:57		11.4	228.9
26-dinitrotoluene-d3	WX100108-07CCV	185 > 155	17.31	15549.083		15549.083	15549.083	bb		460.4050	92.1	-7.9	990.9
2-Nitrotoluene	WX100108-07CCV	137 > 46	20.94	2747.264	15549.083	2747.264	88.342	bb		571.4737	95.2	-4.8	491.0
4-Nitrotoluene	WX100108-07CCV	137 > 46	22.28	1371.563	15549.083	1371.563	44.104	bb		522.5023	87.1	-12.9	252.0
3-Nitrotoluene	WX100108-07CCV	137 > 46	23.95	1583.992	15549.083	1583.992	50.935	bb		508.5219	84.8	-15.2	278.4
PETN	WX100108-07CCV	361 > 62	24.45	35464.906	15549.083	35464.906	1140.418	bb		731.2384	121.9	21.9	3122.5

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/11/10
 Time of Injection: 1040
 Standard Number: WXX100108-07CCV
 Data File: EXP0108134a

HMX	110.4
RDX	116.1
135-TNB	117.0
13-DNB	94.1
Tetryl	84.1
Nitrobenzene	87.5
4A-26-DNT	105.0
2A-46-DNT	114.7
246-TNT	112.5
34-DNT(surr)	104.5
26-DNT	95.8
24-DNT	111.4
2-NT	95.2
4-NT	87.1
3-NT	84.8
PETN	121.9

Total 1642.1

Average 102.6

11/11/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108136a

Analysis Date: 11-JAN-10 11:39

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	46.42	116	
m-Nitrotoluene	40	39.132	98	
o-Nitrotoluene	40	37.97	95	
p-Nitrotoluene	40	40.132	100	
1,3,5-Trinitrobenzene	40	55.683	139	*
1,3-Dinitrobenzene-d4	500	563.233	113	
2,4,6-Trinitrotoluene	40	48.337	121	
2,4-Dinitrotoluene	40	37.608	94	
2,6-Dinitrotoluene	40	39.058	98	
2,6-Dinitrotoluene-d3	500	512.465	102	
2-Amino-4,6-dinitrotoluene	40	48.511	121	
3,4-Dinitrotoluene	20	25.288	126	
4-Amino-2,6-dinitrotoluene	40	38.833	97	
HMX	40	43.801	110	
Nitrobenzene	40	37.778	94	
PETN	40	60.398	151	*
RDX	40	42.399	106	
Tetryl	40	40.964	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantity Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\1010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108136a

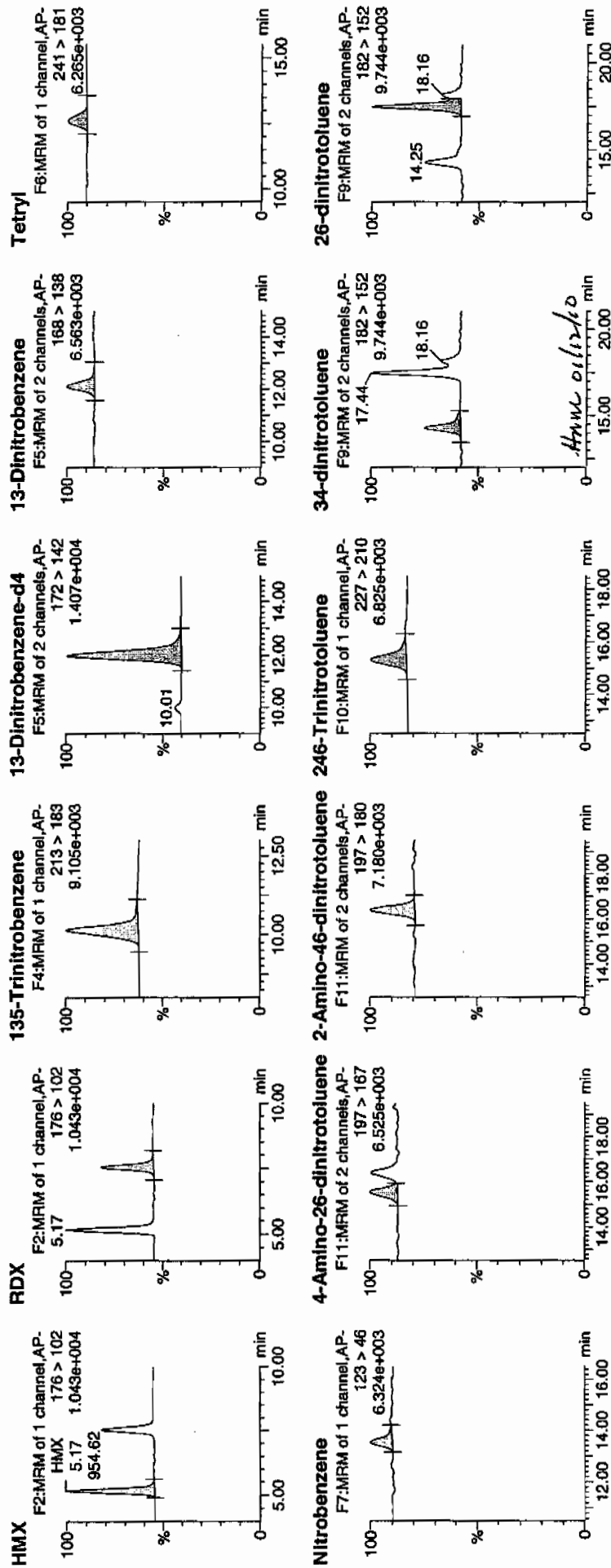
Date: 11-Jan-2010

Time: 11:39:23

ID: WXX100108-08CRI

Vial: 1:1,C

11/10/10

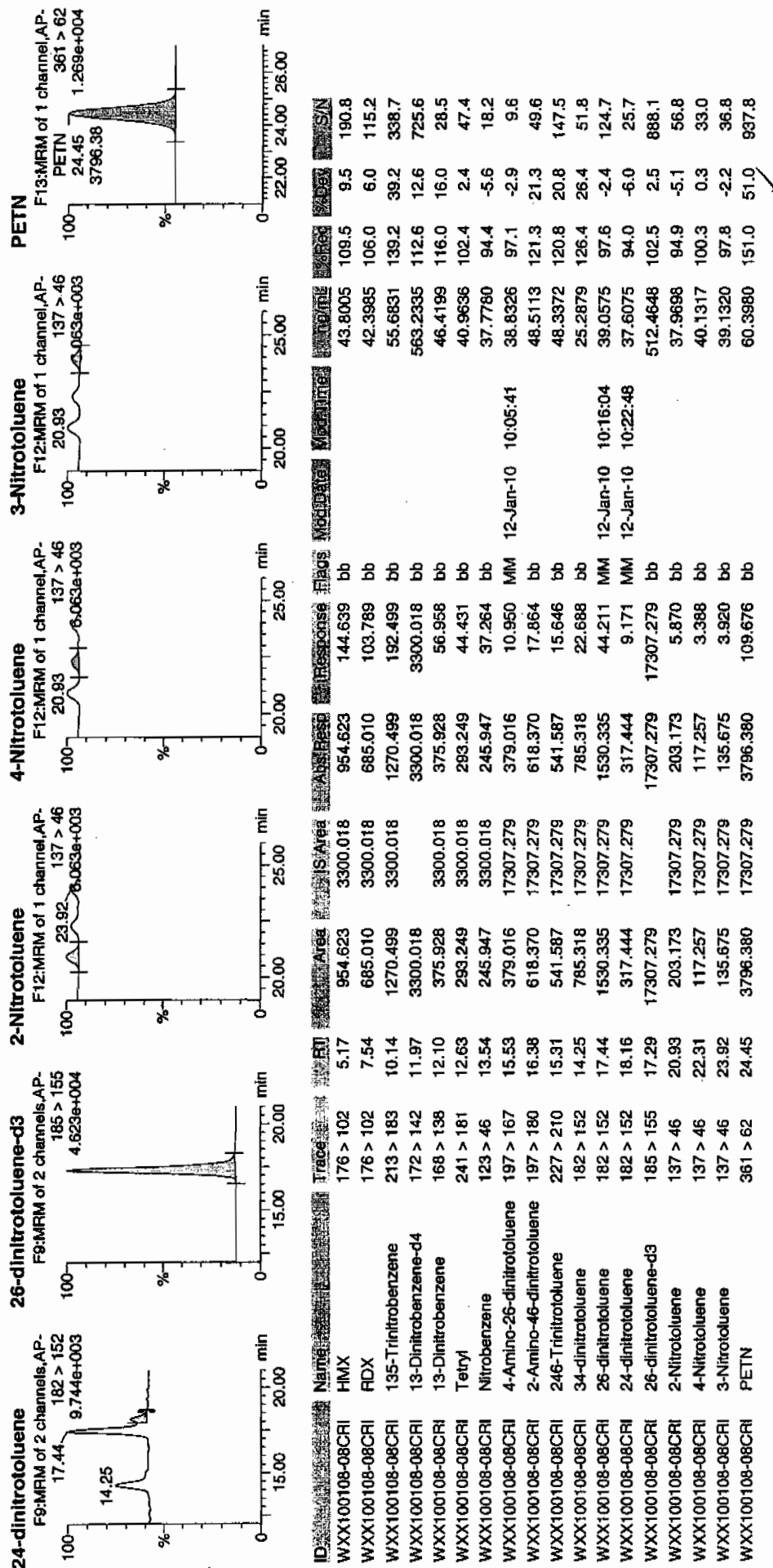


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 24 of 111

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/11/10
 Time of Injection 1139
 Standard Number WXX100108-08CRI
 Data File EXP0108136a

HMX	109.5
RDX	106.0
135-TNB	139.2
13-DNB	116.0
Tetryl	102.4
Nitrobenzene	94.4
4A-26-DNT	97.1
2A-46-DNT	121.3
246-TNT	120.8
34-DNT(surr)	126.4
26-DNT	97.6
24-DNT	94.0
2-NT	94.9
4-NT	100.3
3-NT	97.8
PETN	151.0

*mt
11/2/10*

Total 1768.7

Average 110.5

Ham 01/12/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0108147a

Analysis Date: 11-JAN-10 17:03

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	509.174	85	
PETN	600	703.97	117	
RDX	600	645.852	108	
Tetryl	600	461.006	77	*
m-Dinitrobenzene	600	560.46	93	
m-Nitrotoluene	600	507.354	85	
o-Nitrotoluene	600	602.373	100	
p-Nitrotoluene	600	531.397	89	
1,3,5-Trinitrobenzene	600	582.645	97	
1,3-Dinitrobenzene-d4	500	489.407	98	
2,4,6-Trinitrotoluene	600	680.006	113	
2,4-Dinitrotoluene	600	635.862	106	
2,6-Dinitrotoluene	600	579.22	97	
2,6-Dinitrotoluene-d3	500	464.545	93	
2-Amino-4,6-dinitrotoluene	600	655.339	109	
3,4-Dinitrotoluene	300	303.195	101	
4-Amino-2,6-dinitrotoluene	600	591.055	99	
HMX	600	654.872	109	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108147a

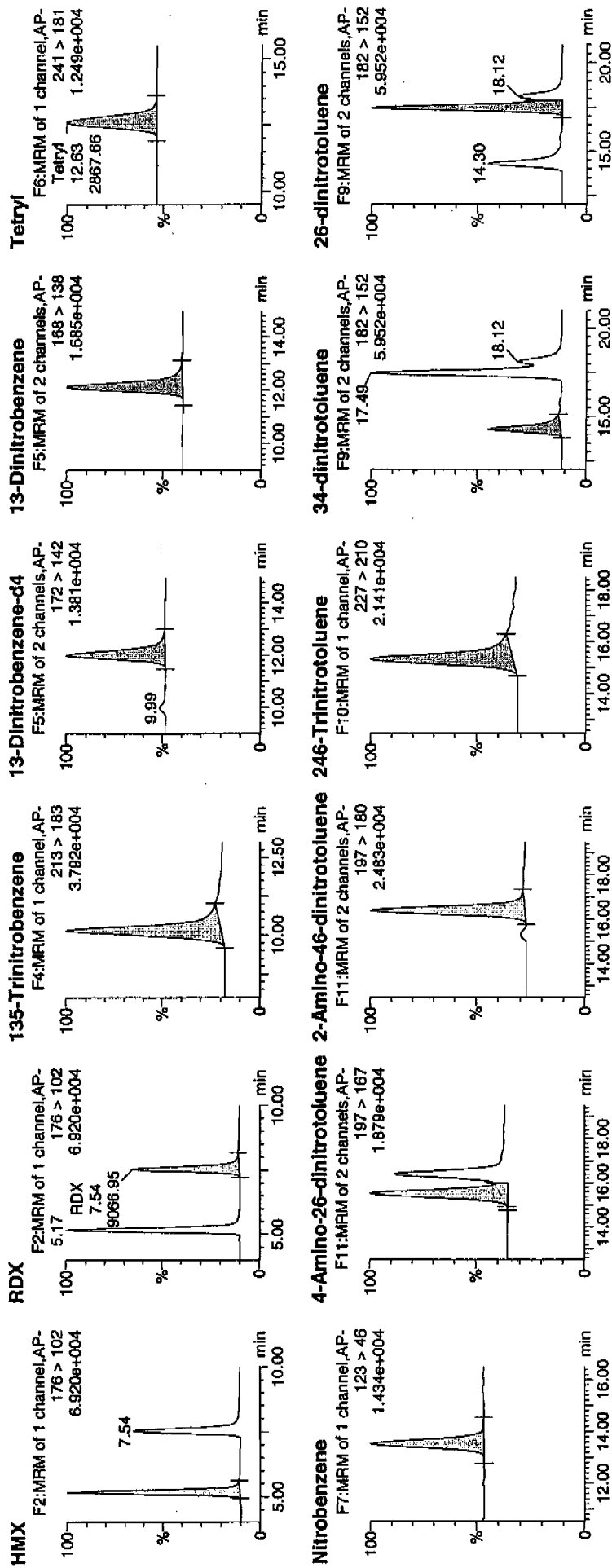
Date: 11-Jan-2010

Time: 17:03:38

ID: WXX100108-07CCV

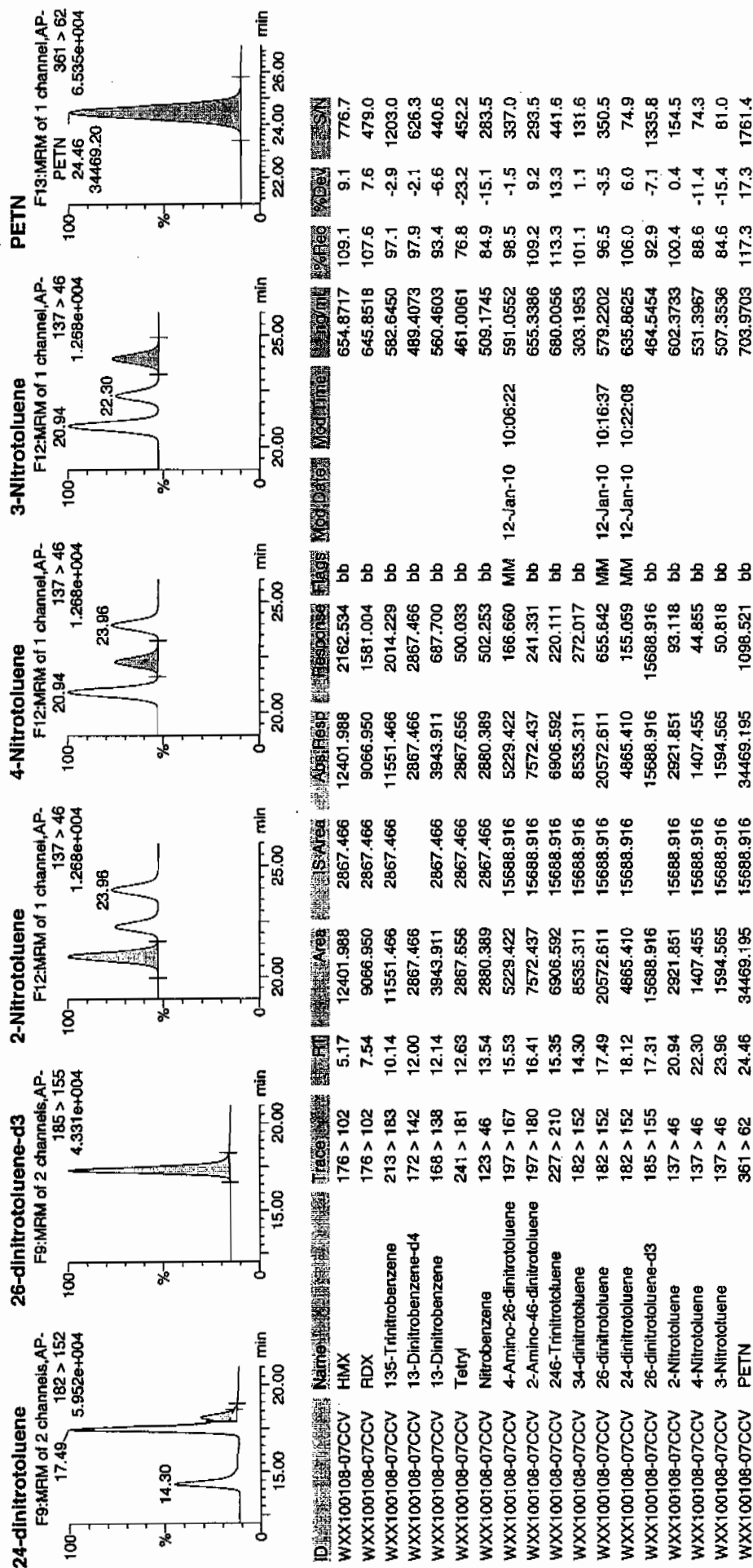
Vial: 1:1,B

1/12/10



4mm 01/12/10

Dataset: C:\MASSLYNX\New_Exp\PRO1010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/11/10
 Time of Injection: 1703
 Standard Number: WXX100108-07CCV
 Data File: EXP0108147a

HMX	109.1
RDX	107.6
135-TNB	97.1
13-DNB	93.4
Tetryl	76.8
Nitrobenzene	84.9
4A-26-DNT	98.5
2A-46-DNT	109.2
246-TNT	113.3
34-DNT(surr)	101.1
26-DNT	96.5
24-DNT	106.0
2-NT	100.4
4-NT	88.6
3-NT	84.6
PETN	117.3

Handwritten: 11/12/10

Total 1584.4

Handwritten: 01/12/10

Average

99.0

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0108149a

Analysis Date: 11-JAN-10 18:02

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	52.927	132	*
1,3-Dinitrobenzene-d4	500	519.414	104	
2,4,6-Trinitrotoluene	40	42.082	105	
2,4-Dinitrotoluene	40	41.302	103	
2,6-Dinitrotoluene	40	38.166	95	
2,6-Dinitrotoluene-d3	500	516.869	103	
2-Amino-4,6-dinitrotoluene	40	45.388	113	
3,4-Dinitrotoluene	20	21.403	107	
4-Amino-2,6-dinitrotoluene	40	43.413	109	
HMX	40	43.96	110	
Nitrobenzene	40	33.509	84	
PETN	40	57.839	145	*
RDX	40	39.072	98	
Tetryl	40	41.947	105	
m-Dinitrobenzene	40	38.922	97	
m-Nitrotoluene	40	33.267	83	
o-Nitrotoluene	40	40.703	102	
p-Nitrotoluene	40	39.764	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 49 of 111

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108149a

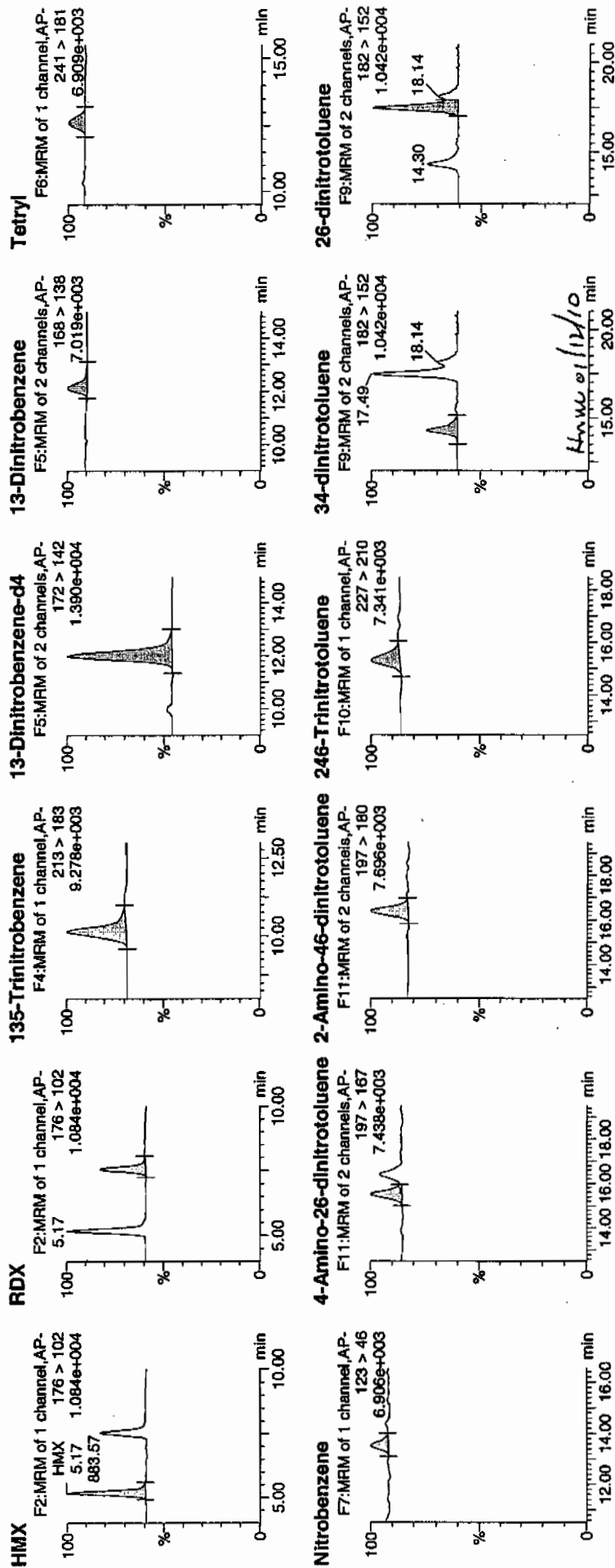
Date: 11-Jan-2010

Time: 18:02:40

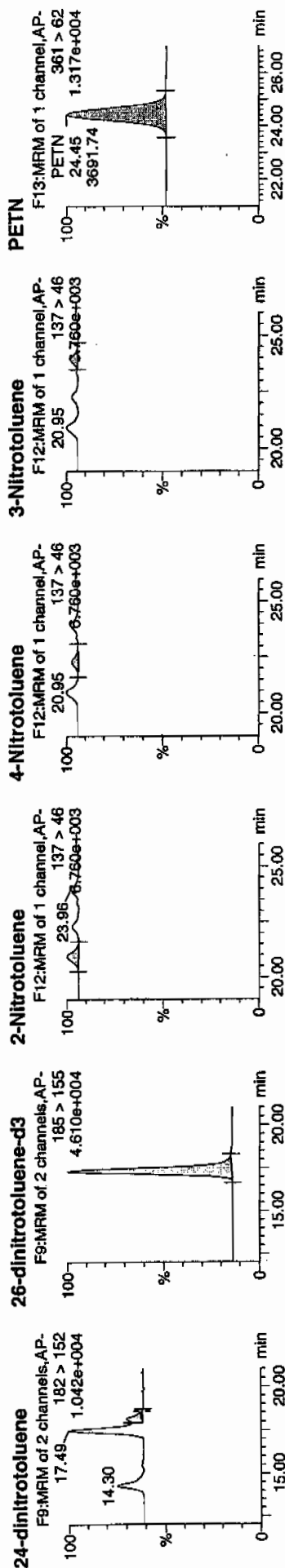
ID: WXX100108-08CRI

Vial: 1:1,C

11/10/10



Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	From	% Req	% Dev	SN
WXX100108-08CRI	HMx	176 > 102	5.17	883.569	3043.280	883.569	145.167	bb			43.9604	109.9	9.9	151.3
WXX100108-08CRI	RDX	176 > 102	7.56	582.160	3043.280	582.160	95.647	bb			39.0724	97.7	-2.3	86.8
WXX100108-08CRI	135-Trinitrobenzene	213 > 183	10.14	1113.652	3043.280	1113.652	182.969	bb			52.9265	132.3	32.3	200.4
WXX100108-08CRI	13-Dinitrobenzene-d4	172 > 142	11.97	3043.280		3043.280	3043.280	bb			519.4145	103.9	3.9	251.9
WXX100108-08CRI	13-Dinitrobenzene	168 > 138	12.14	290.683	3043.280	290.683	47.758	bb			38.9219	97.3	-2.7	33.0
WXX100108-08CRI	Tetryl	241 > 181	12.63	276.929	3043.280	276.929	45.498	bb			41.9473	104.9	4.9	19.7
WXX100108-08CRI	Nitrobenzene	123 > 46	13.54	201.180	3043.280	201.180	33.053	bb			33.5086	83.8	-16.2	8.7
WXX100108-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.53	427.364	17456.029	427.364	12.241	MM	12-Jan-10	10:06:28	43.4130	108.5	8.5	53.7
WXX100108-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.41	583.526	17456.029	583.526	16.714	bb			45.3877	113.5	13.5	59.3
WXX100108-08CRI	246-Trinitrotoluene	227 > 210	15.31	475.552	17456.029	475.552	13.621	bb			42.0818	105.2	5.2	19.5
WXX100108-08CRI	34-dinitrotoluene	182 > 152	14.30	670.384	17456.029	670.384	19.202	bb			21.4030	107.0	7.0	31.7
WXX100108-08CRI	26-dinitrotoluene	182 > 152	17.49	1508.242	17456.029	1508.242	43.201	MM	12-Jan-10	10:16:46	38.1657	95.4	-4.6	88.3
WXX100108-08CRI	24-dinitrotoluene	182 > 152	18.14	351.621	17456.029	351.621	10.072	MM	12-Jan-10	10:21:54	41.3015	103.3	3.3	19.6
WXX100108-08CRI	26-dinitrotoluene-d3	185 > 155	17.31	17456.029		17456.029	17456.029	bb			516.8693	103.4	3.4	1316.3
WXX100108-08CRI	2-Nitrotoluene	137 > 46	20.95	219.669	17456.029	219.669	6.292	bb			40.7028	101.8	1.8	24.9
WXX100108-08CRI	4-Nitrotoluene	137 > 46	22.31	117.180	17456.029	117.180	3.356	bb			39.7636	99.4	-0.6	13.5
WXX100108-08CRI	3-Nitrotoluene	137 > 46	23.96	116.333	17456.029	116.333	3.332	bb			33.2674	83.2	-16.8	14.8
WXX100108-08CRI	PETN	361 > 62	24.45	3691.738	17456.029	3691.738	105.744	bb			57.8390	144.5	44.6	167.2

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/11/10
 Time of Injection 1802
 Standard Number WXX100108-08CRI
 Data File EXP0108149a

HMX	100.9
RDX	97.7
135-TNB	132.3
13-DNB	97.3
Tetryl	104.9
Nitrobenzene	83.8
4A-26-DNT	108.5
2A-46-DNT	113.5
246-TNT	105.2
34-DNT(surr)	107.0
26-DNT	95.4
24-DNT	103.3
2-NT	101.8
4-NT	99.4
3-NT	83.2
PETN	144.6

Total 1678.8

Average 104.9

*not
1/11/10*

sum 01/12/10

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): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050013.wiff

Analysis Date: 05-JAN-10 17:38

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	97.7	98	
2,6-Diamino-4-nitrotoluene	100	97.5	98	
3,4-Dinitrotoluene	50	50.4	101	
3,5-Dinitroaniline	100	98.7	99	
TATB	100	101	101	
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%

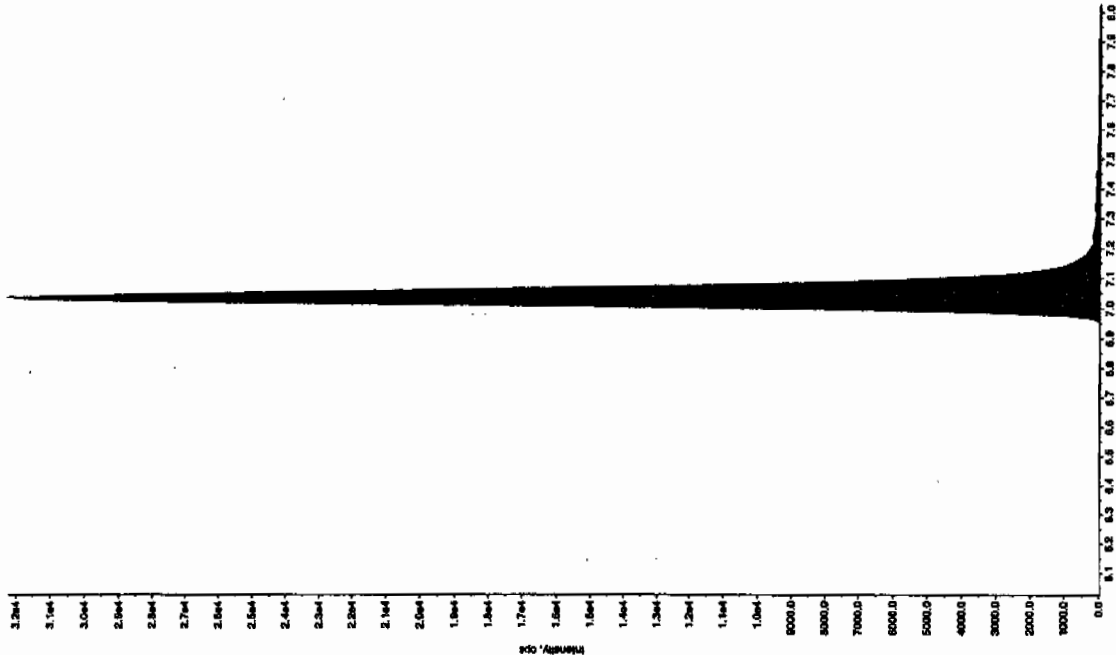
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/11/2010
2004.9
2004.9

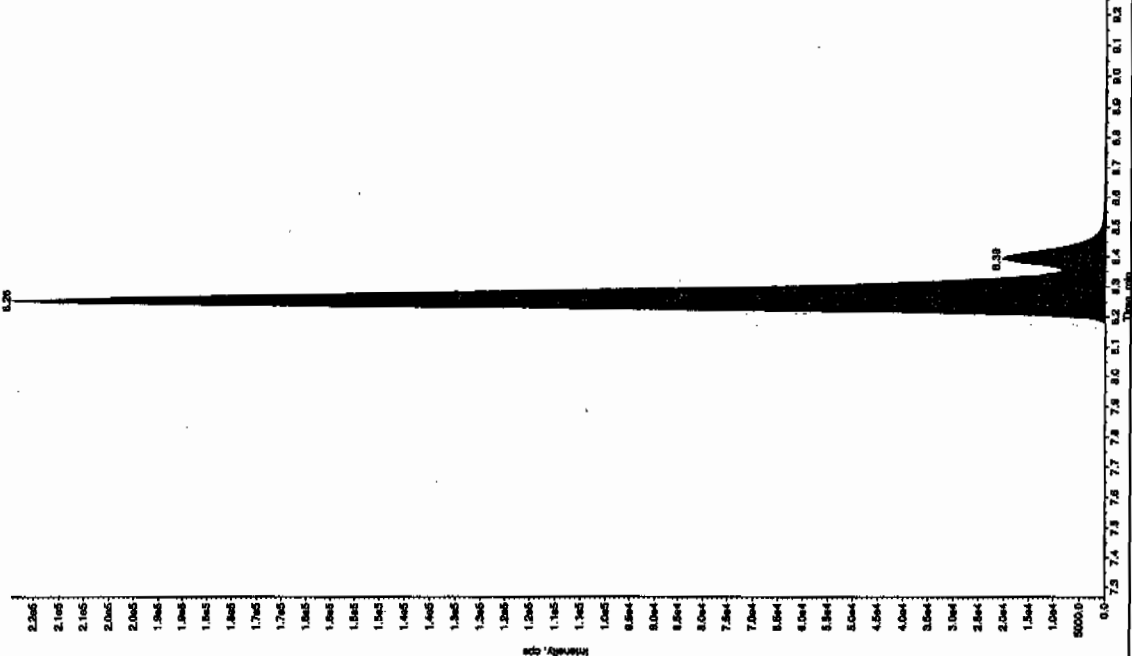
Sample Name: WXX100105-27091 Sample ID: 111ER File: EXS01050013.wif
Peak Name: TATB Mass(es): 257.2004.9 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1
Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 101 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 5:38:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.04 min
Area: 1.37e+005 counts
Height: 3224.201 cps
Start Time: 6.87 min
End Time: 7.70 min



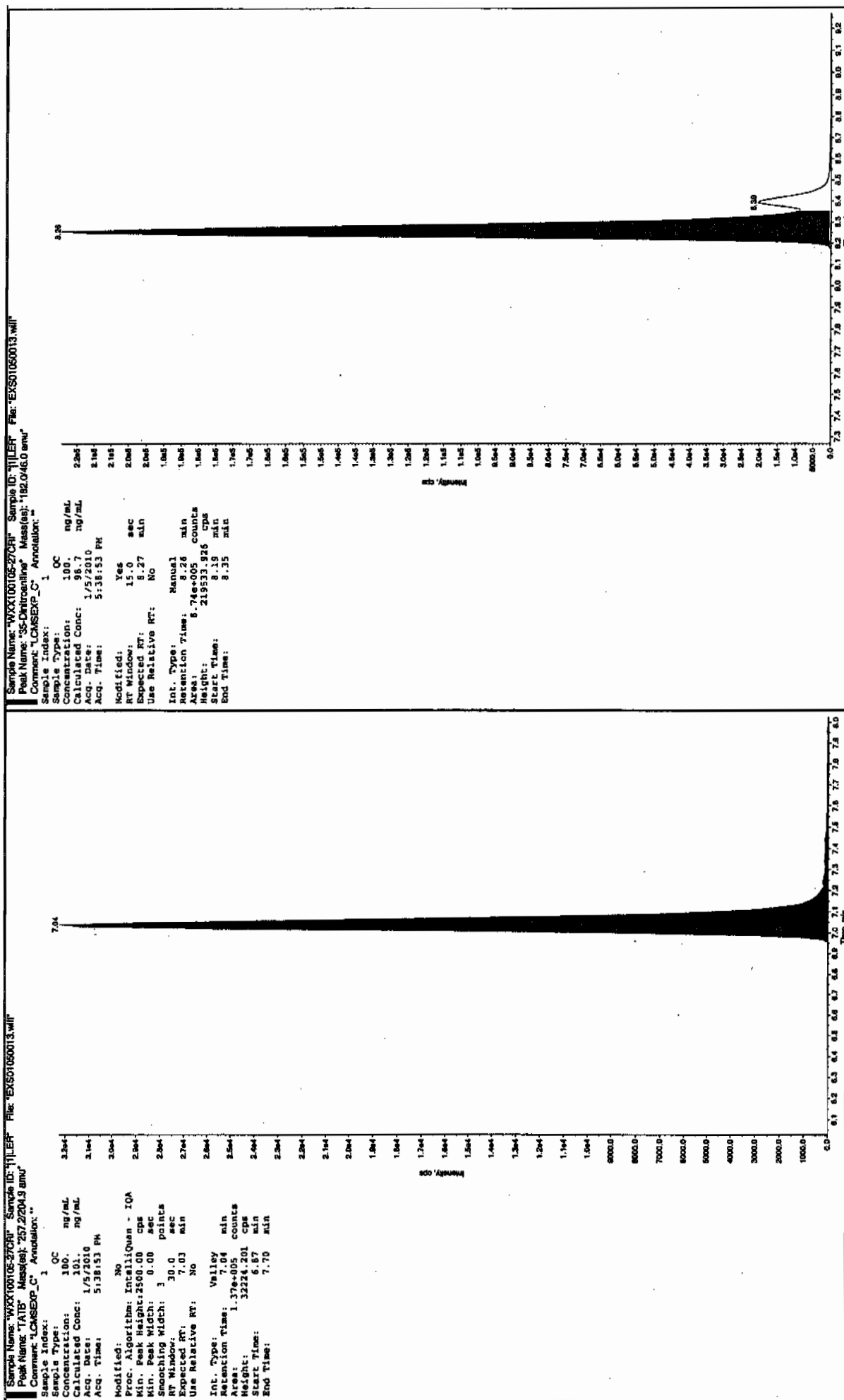
Sample Name: WXX100105-27091 Sample ID: 111ER File: EXS01050013.wif
Peak Name: TATB Mass(es): 257.2004.9 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1
Sample Type: QC
Concentration: 100 ng/mL
Calculated Conc: 109 ng/mL
Acq. Date: 1/5/2010
Acq. Time: 5:38:53 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.26 min
Area: 9.69e+005 counts
Height: 21942.812 cps
Start Time: 8.13 min
End Time: 8.78 min



01/11/2010

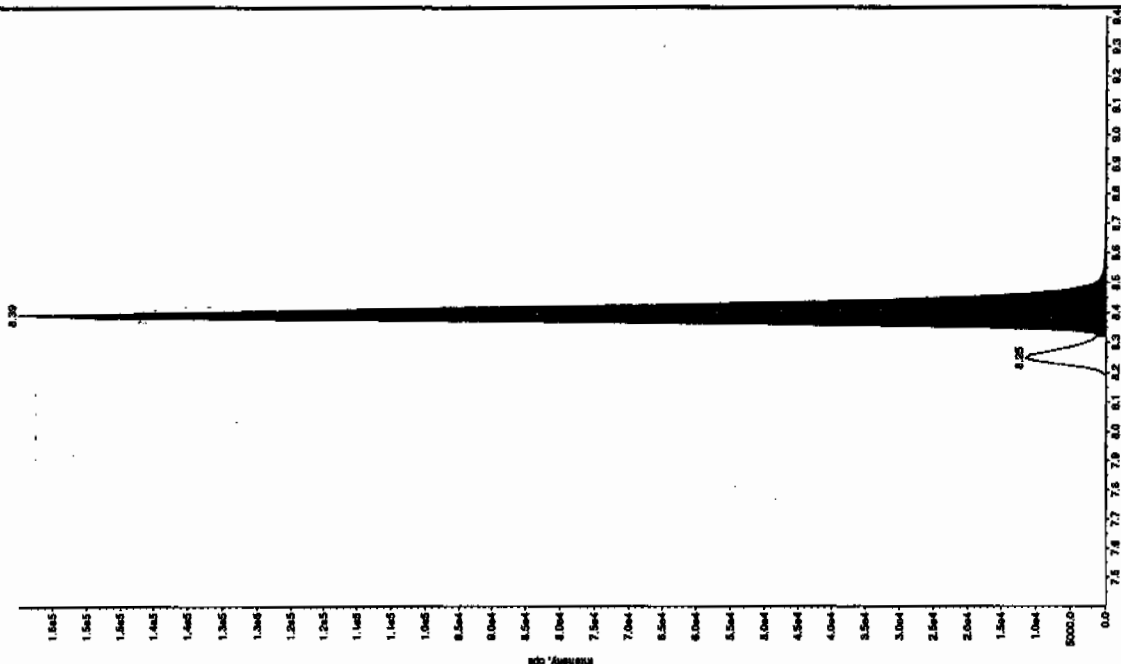
01/11/11
22222222



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

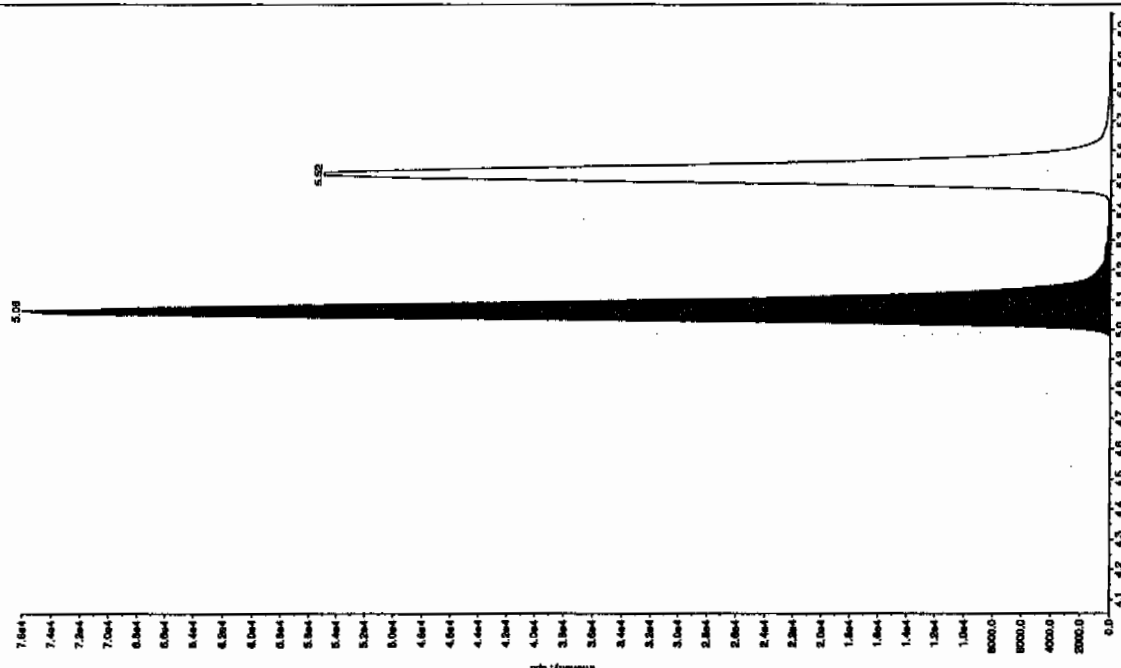
Sample Name: "WXX100105-27CR" Sample ID: "J1LER" File: "EXS01050013.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "162.1/151.9 amu"
 Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 50.4 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 5:38:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.39 min
 Area: 5.81e+05 counts
 Height: 159785.72 cps
 Start Time: 8.32 min
 End Time: 8.71 min

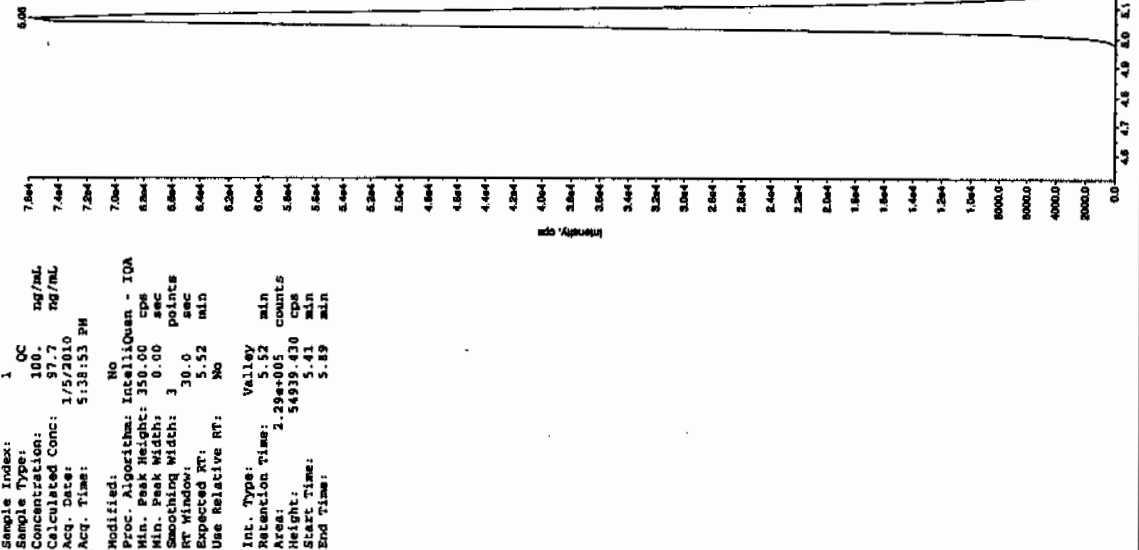


Sample Name: "WXX100105-27CR" Sample ID: "J1LER" File: "EXS01050013.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "186.0/166.0 amu"
 Comment: "LCMS-EXP-C" Annotation: ""

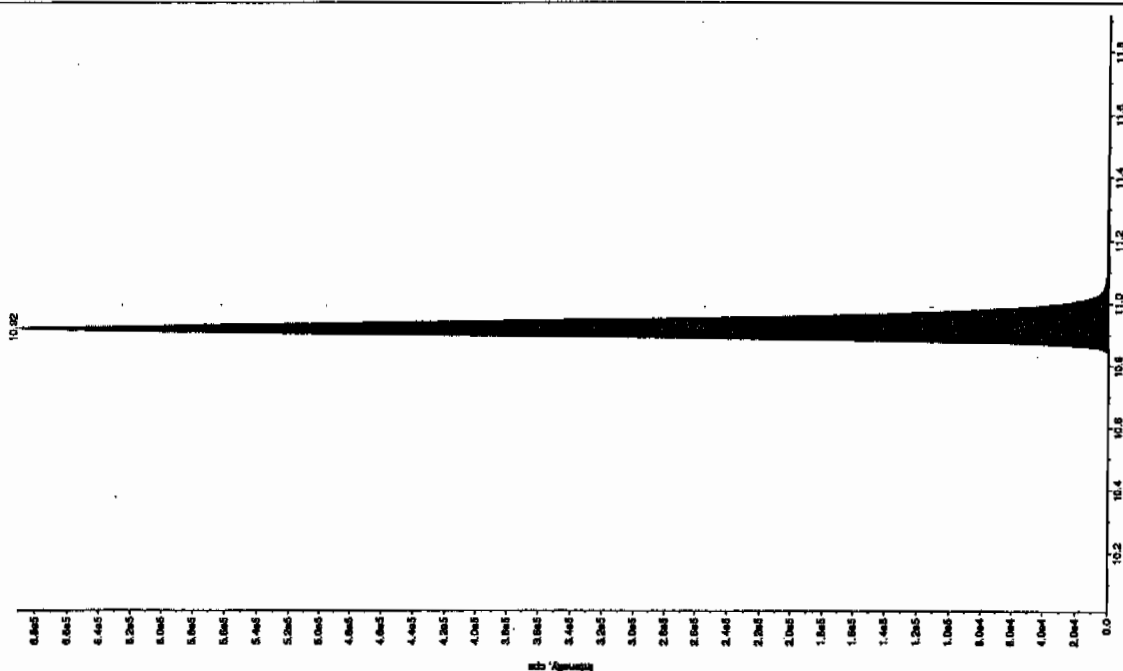
Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 97.5 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 5:38:53 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.06 min
 Area: 3.17e+05 counts
 Height: 76000.047 cps
 Start Time: 4.96 min
 End Time: 5.36 min



Sample Name: "WXX100105-27034" Sample ID: "111ER" File: "EX501060013.wif"
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""



Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 101. ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 5:38:53 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.09e4 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 30.0 sec
 RT Window: 10.0 min
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 2.52e+006 counts
 Height: 690432.434 cps
 Start Time: 10.8 min
 End Time: 11.2 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050024.wiff

Analysis Date: 05-JAN-10 20:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	500	495	99	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	508	102	
2,4-Diamino-6-nitrotoluene	500	498	100	
2,6-Diamino-4-nitrotoluene	500	425	85	
3,4-Dinitrotoluene	250	230	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

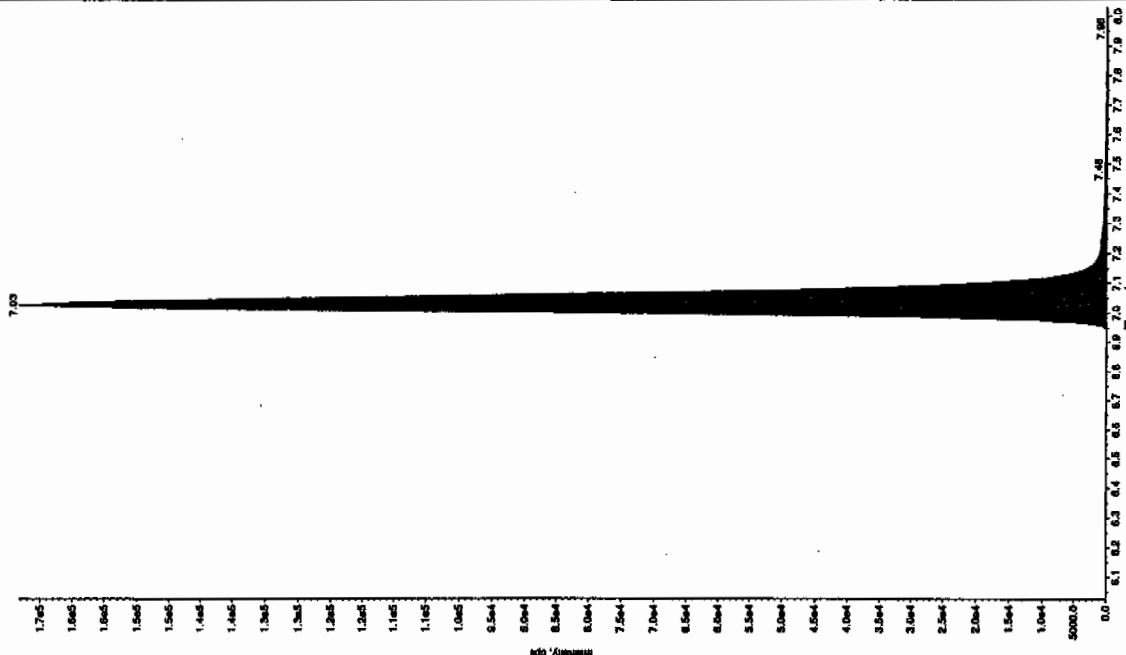


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

00058051110

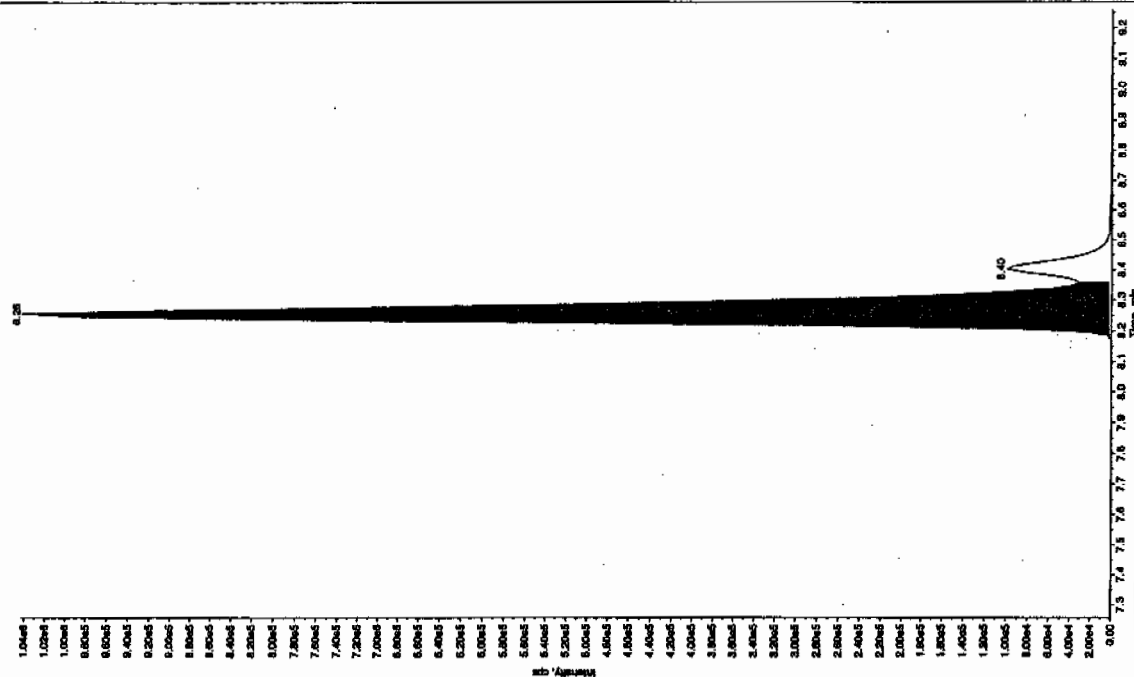
Sample Name: "WXX100105-280CV" Sample ID: "JILLER" File: "EX501050024.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 421 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 8:31:35 PM
 Acq. Time: 8:31:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.03 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.03 min
 Area: 7.12e+005 counts
 Height: 168324.171 cps
 Start Time: 6.88 min
 End Time: 7.55 min



Sample Name: "WXX100105-280CV" Sample ID: "JILLER" File: "EX501050024.wif"
 Peak Name: "35-Oxitroline" Mass(es): 182.046.0 amu
 Comment: "LCMSXP_C" Annotation: "

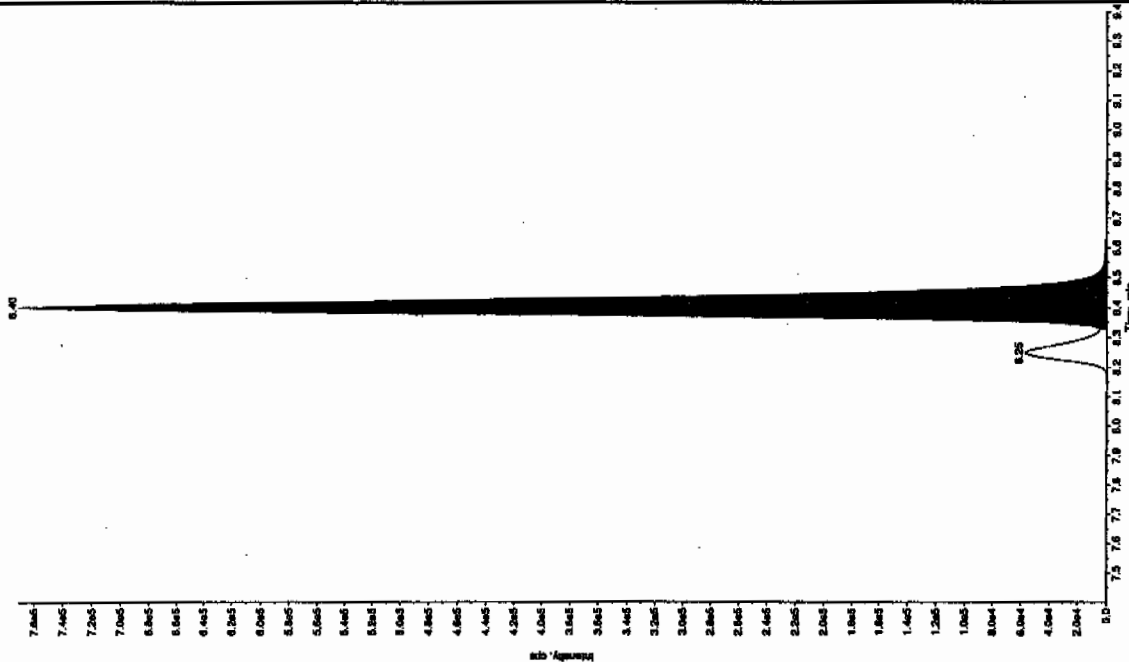
Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 495 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 8:31:35 PM
 Acq. Time: 8:31:35 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.26 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.25 min
 Area: 4.21e+006 counts
 Height: 1045762.965 cps
 Start Time: 8.17 min
 End Time: 8.36 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

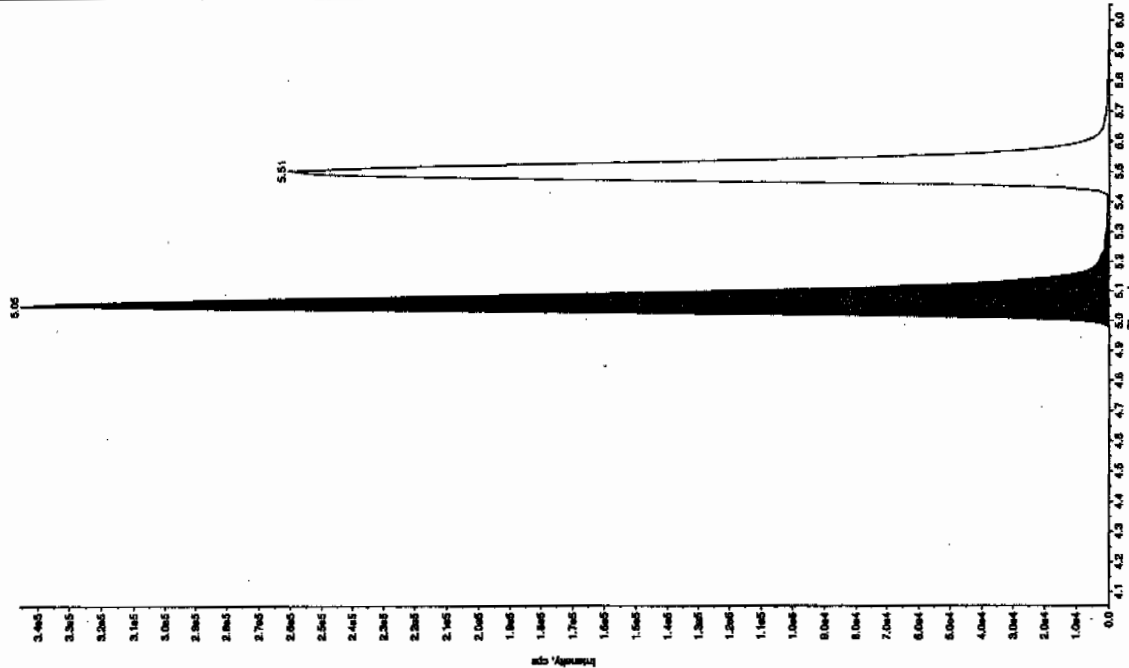
Sample Name: "WXX100105-2800V" Sample ID: "11LEF" File: "EX501050024.wif"
 Peak Name: "34-Dinitro-4-nitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: 250 OC
 Concentration: 230.0 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 8:31:35 PM
 Acq. Time: 8:31:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 2.97e+06 counts
 Height: 771296.143 cps
 Start Time: 8.13 min
 End Time: 8.70 min



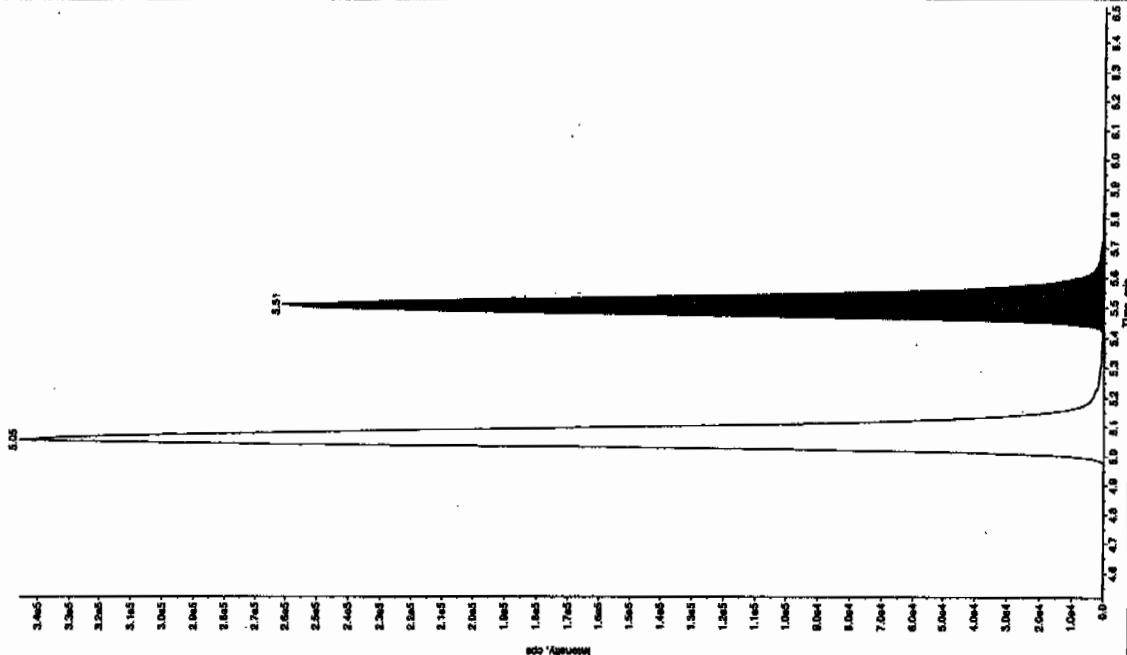
Sample Name: "WXX100105-2800V" Sample ID: "11LEF" File: "EX501050024.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "168.0/68.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: 500 OC
 Concentration: 425.0 ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 8:31:35 PM
 Acq. Time: 8:31:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.05 min
 Area: 1.46e+06 counts
 Height: 345889.123 cps
 Start Time: 4.85 min
 End Time: 5.34 min



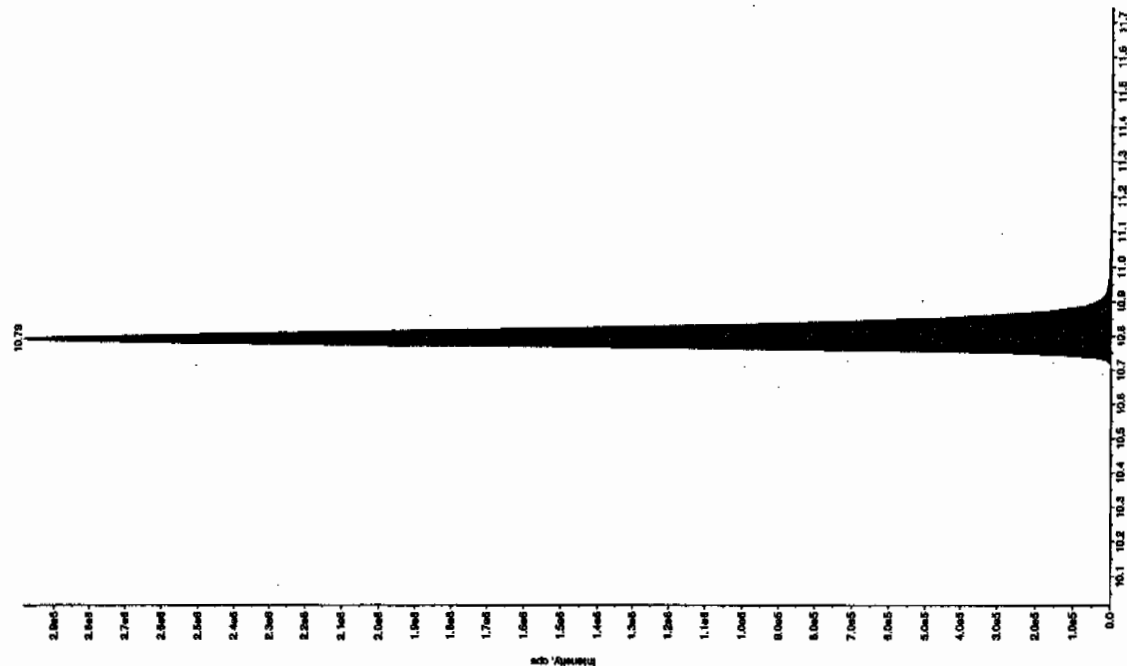
Sample Name: "WXX100105-2620V" Sample ID: "11LEP" File: "EXS01050024.wif"
 Peak Name: "M-Dibenz-6-nitrofluorene" Mass(es): "166.046.0 and"

Comment: "LCMSDEP_C" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 498. ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 8:31:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 1.12e+006 counts
 Height: 261130.280 cps
 Start Time: 5.40 min
 End Time: 5.94 min



Sample Name: "WXX100105-2620V" Sample ID: "11LEP" File: "EXS01050024.wif"
 Peak Name: "bis(2-oxopropyl) phosphite" Mass(es): "369.1491.0 amu"

Comment: "LCMSDEP_C" Annotation: ""
 Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 508. ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 8:31:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.15e+007 counts
 Height: 2983152.832 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050026.wiff

Analysis Date: 05-JAN-10 21:03

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	100	93.4	93	
2,4-Diamino-6-nitrotoluene	100	89.5	90	
2,6-Diamino-4-nitrotoluene	100	93.1	93	
3,4-Dinitrotoluene	50	50.6	101	
3,5-Dinitroaniline	100	102	102	
TATB	100	104	104	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

1/17/10
D. J. J. J.

Sample Name: "WXX100105-27CR" Sample ID: "111ER" File: "EXS01050026.wif"

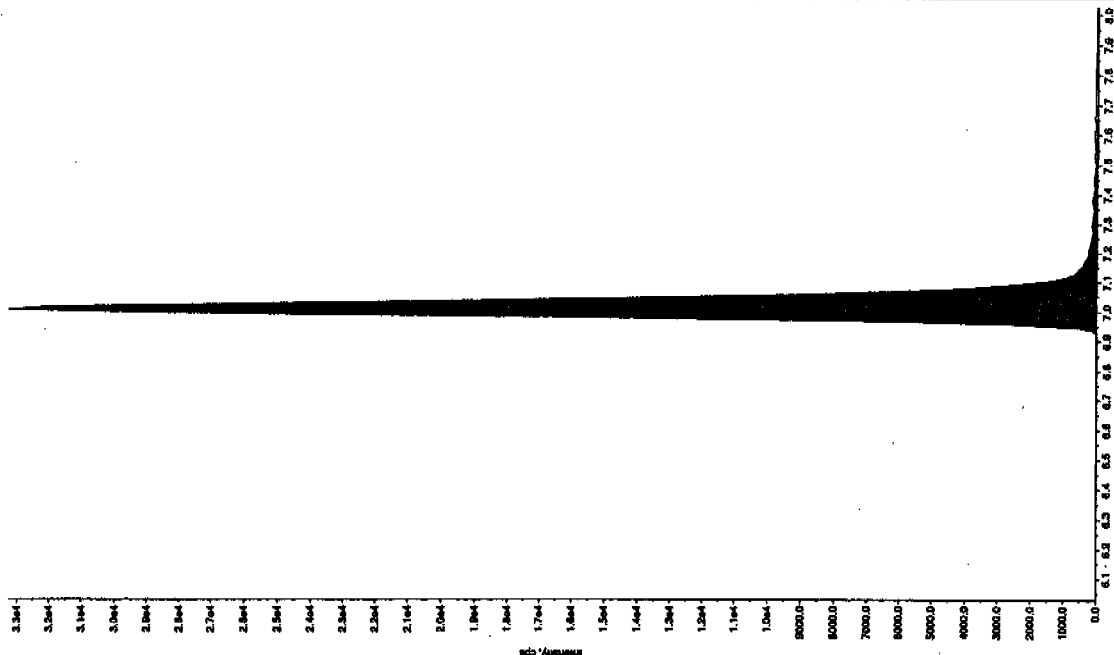
Peak Name: "TATB" Mass(es): "257.204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 104. ng/mL
Acq. Date: 1/5/2010
Acq. Time: 9:03:00 PM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 1.42e+005 counts
Height: 33246.010 cps
Start Time: 6.86 min
End Time: 7.16 min



Sample Name: "WXX100105-27CR" Sample ID: "111ER" File: "EXS01050026.wif"

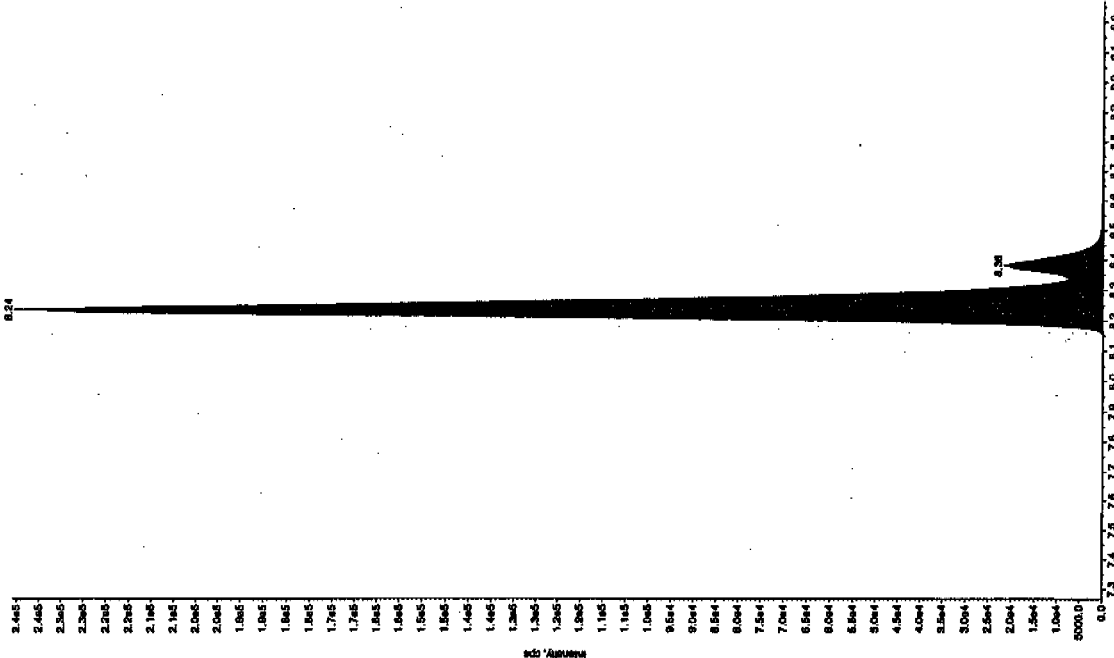
Peak Name: "3S-Diolroline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 112. ng/mL
Acq. Date: 1/5/2010
Acq. Time: 9:03:00 PM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No

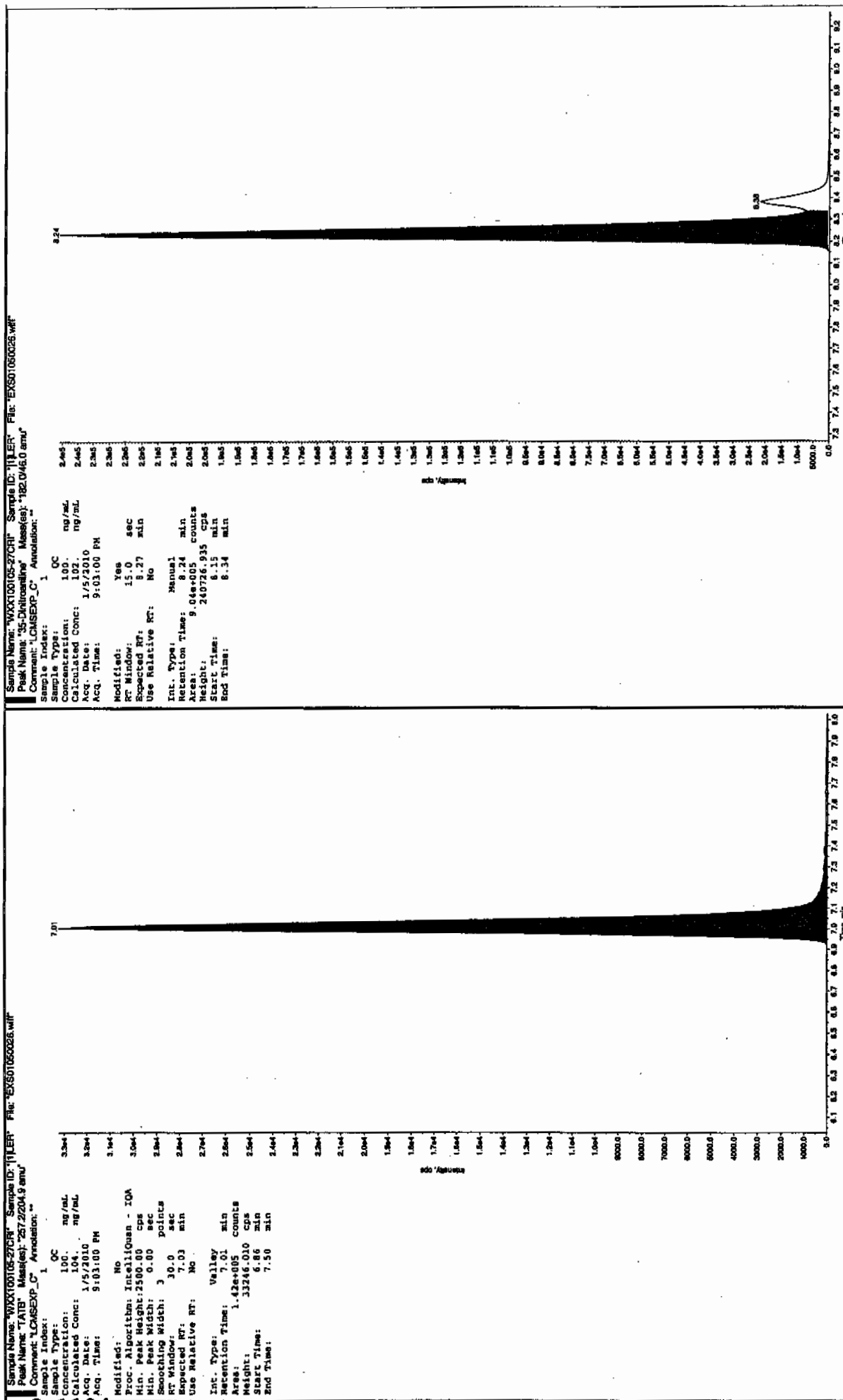
Int. Type: Valley
Retention Time: 8.24 min
Area: 9.96e+005 counts
Height: 24035.220 cps
Start Time: 8.06 min
End Time: 8.79 min



8.24

*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

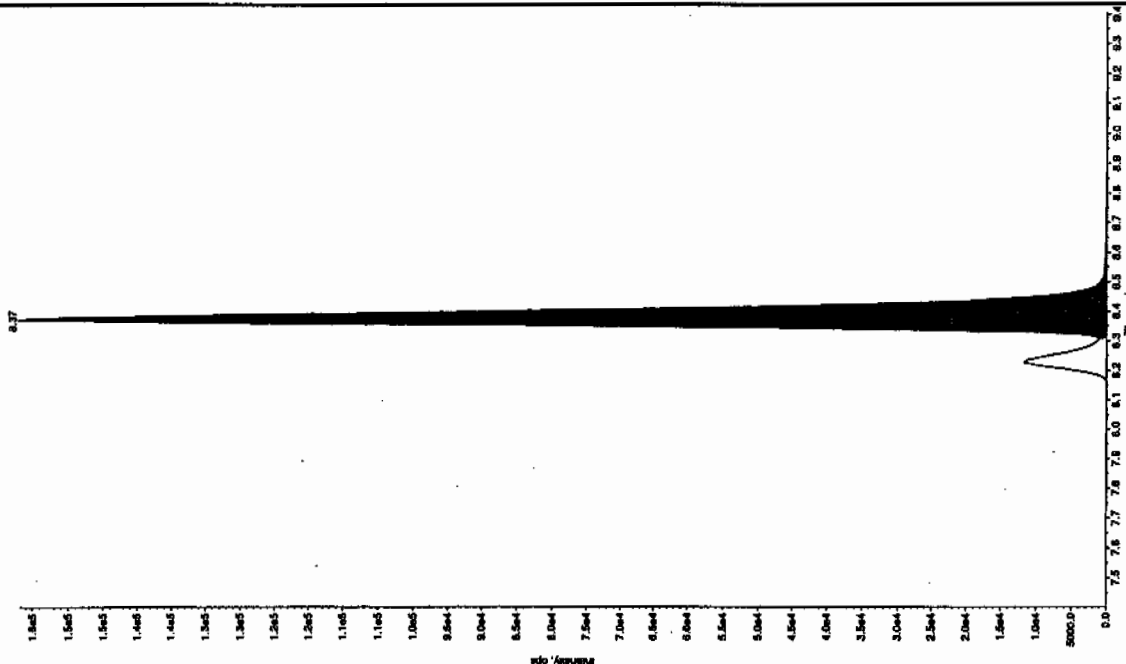
2/11/10
2/11/10
2/11/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

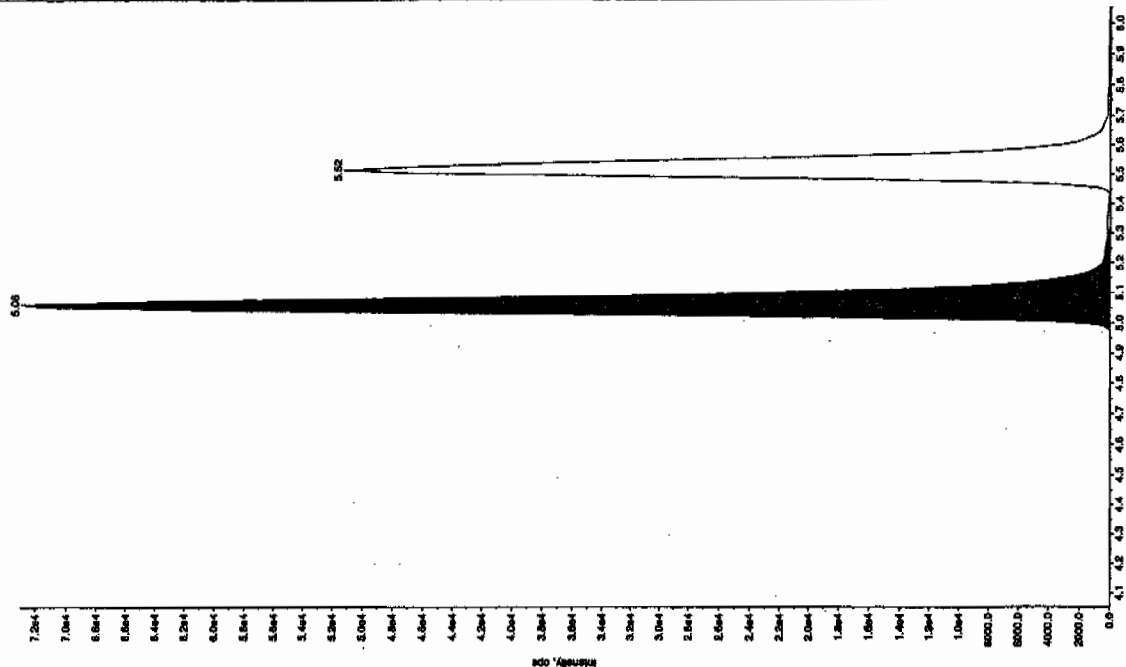
Sample Name: "WXX100105-270H" Sample ID: "11LER" File: "EXS01050028.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 50.6 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 9:03:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 146.0 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 5.84e+005 counts
 Height: 156332.870 cps
 Start Time: 8.31 min
 End Time: 8.66 min

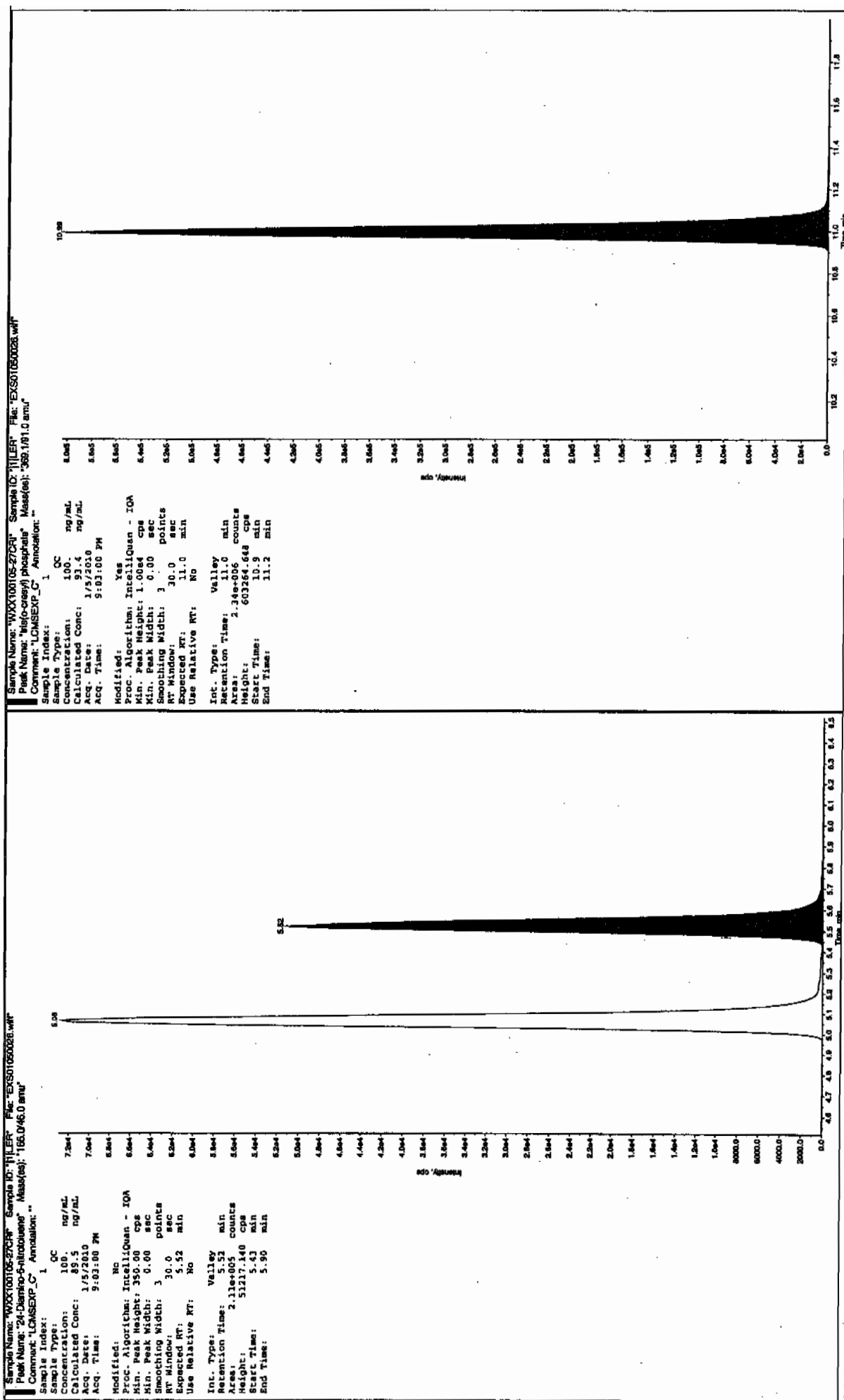


Sample Name: "WXX100105-270H" Sample ID: "11LER" File: "EXS01050028.wif"
 Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "188.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 93.1 ng/mL
 Acq. Date: 1/5/2010
 Acq. Time: 9:03:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.0 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.06 min
 Area: 3.02e+005 counts
 Height: 72930.122 cps
 Start Time: 4.90 min
 End Time: 5.31 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050037.wiff

Analysis Date: 05-JAN-10 23:55

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	469	94	
2,6-Diamino-4-nitrotoluene	500	380	76	
3,4-Dinitrotoluene	250	237	95	
3,5-Dinitroaniline	500	522	104	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	475	95	

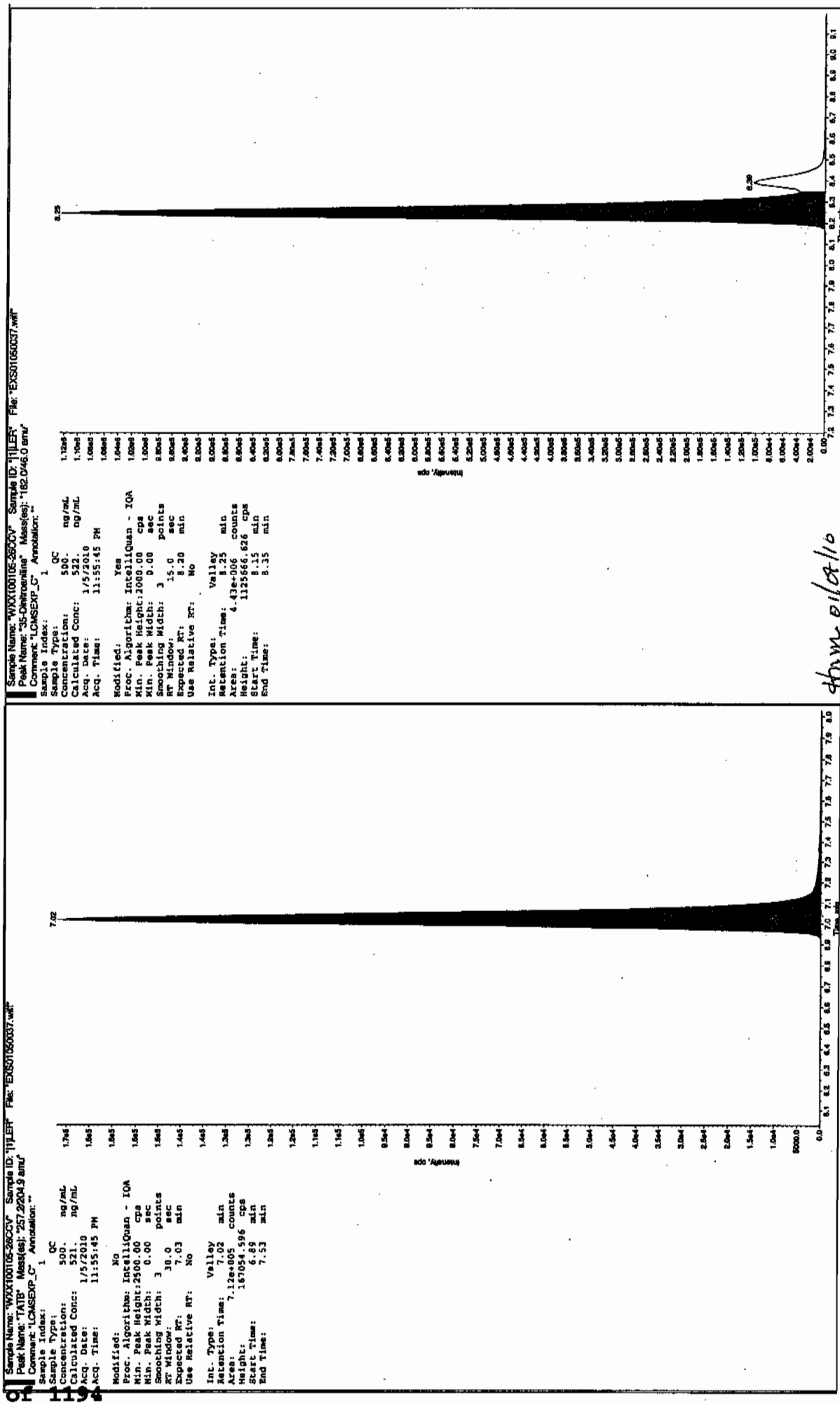
Recovery Limits:

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



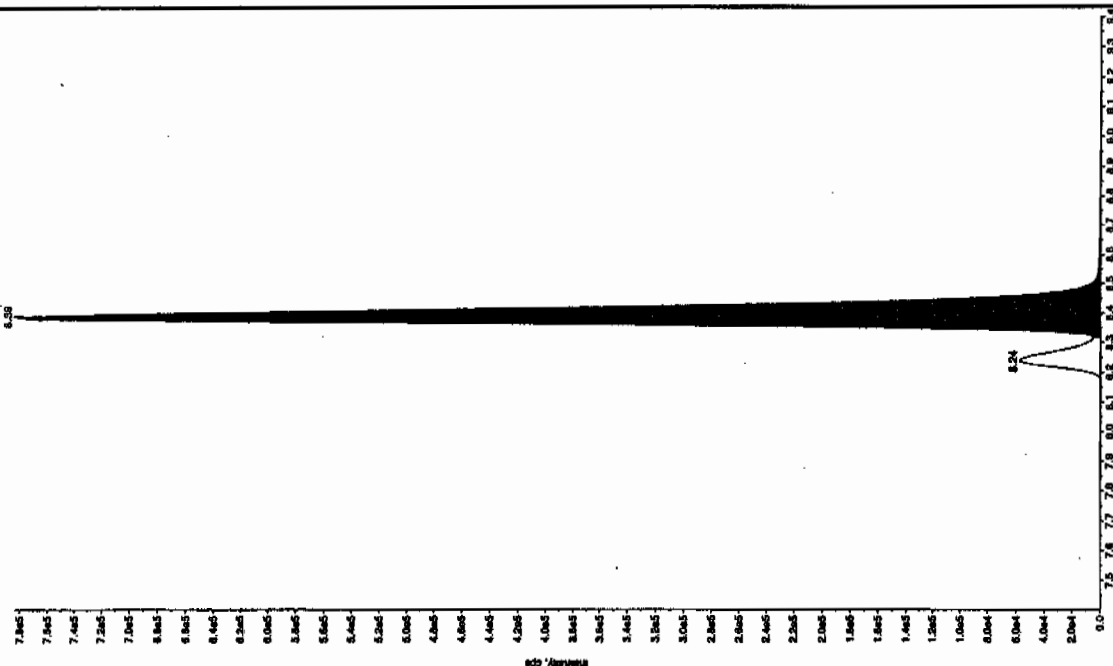
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: WXX1001005-2600V Sample ID: 111EP File: EX501050037.will
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 11/5/2010
 Acq. Time: 11:55:45 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.39 min
 Area: 2.96e+005 counts
 Height: 783400 cps
 Start Time: 8.32 min
 End Time: 8.69 min

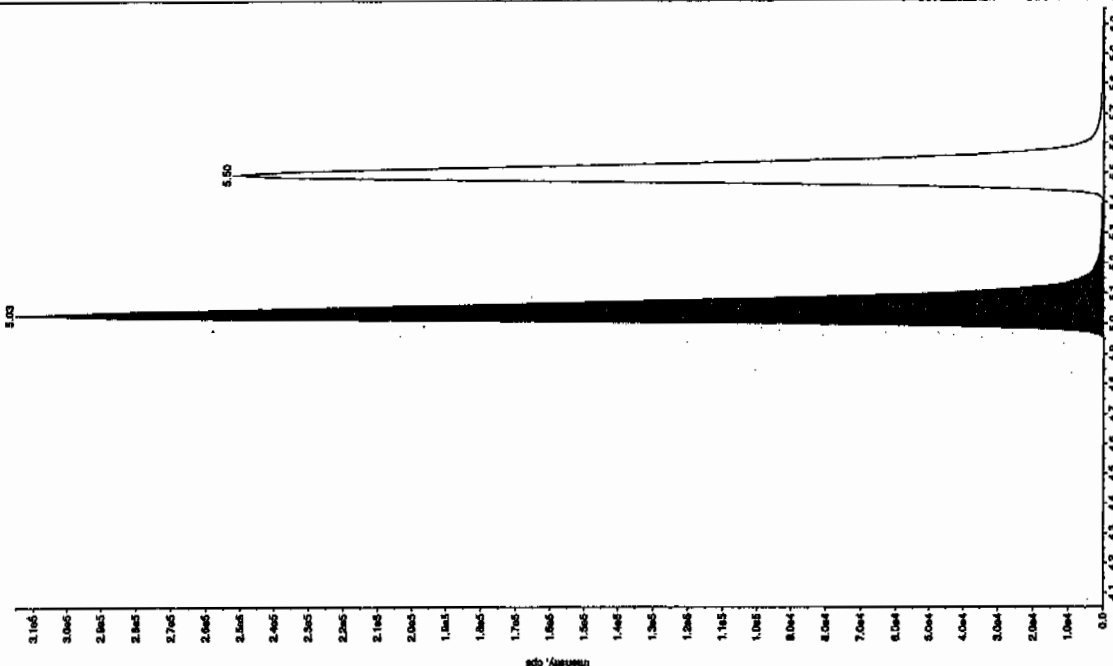


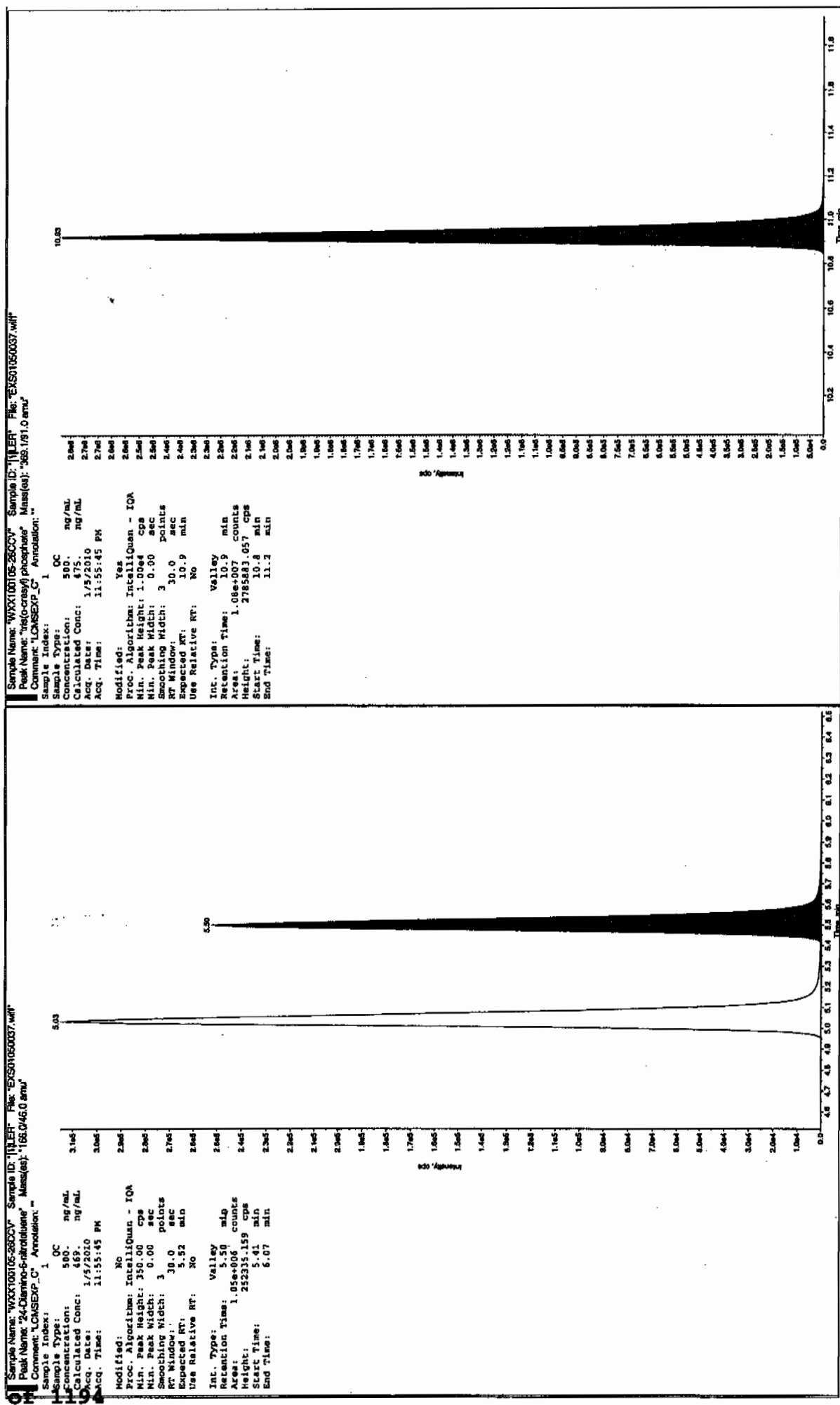
Sample Name: WXX1001005-2600V Sample ID: 111EP File: EX501050037.will
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.0/166.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 1/5/2010
 Acq. Date: 11/5/2010
 Acq. Time: 11:55:45 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 5.03 min
 Area: 1.30e+006 counts
 Height: 315900 cps
 Start Time: 4.94 min
 End Time: 5.33 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050039.wiff

Analysis Date: 06-JAN-10 00:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	87.7	88	
2,6-Diamino-4-nitrotoluene	100	94.9	95	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	108	108	
TATB	100	111	111	
tris(o-cresyl) phosphate	100	93.6	94	

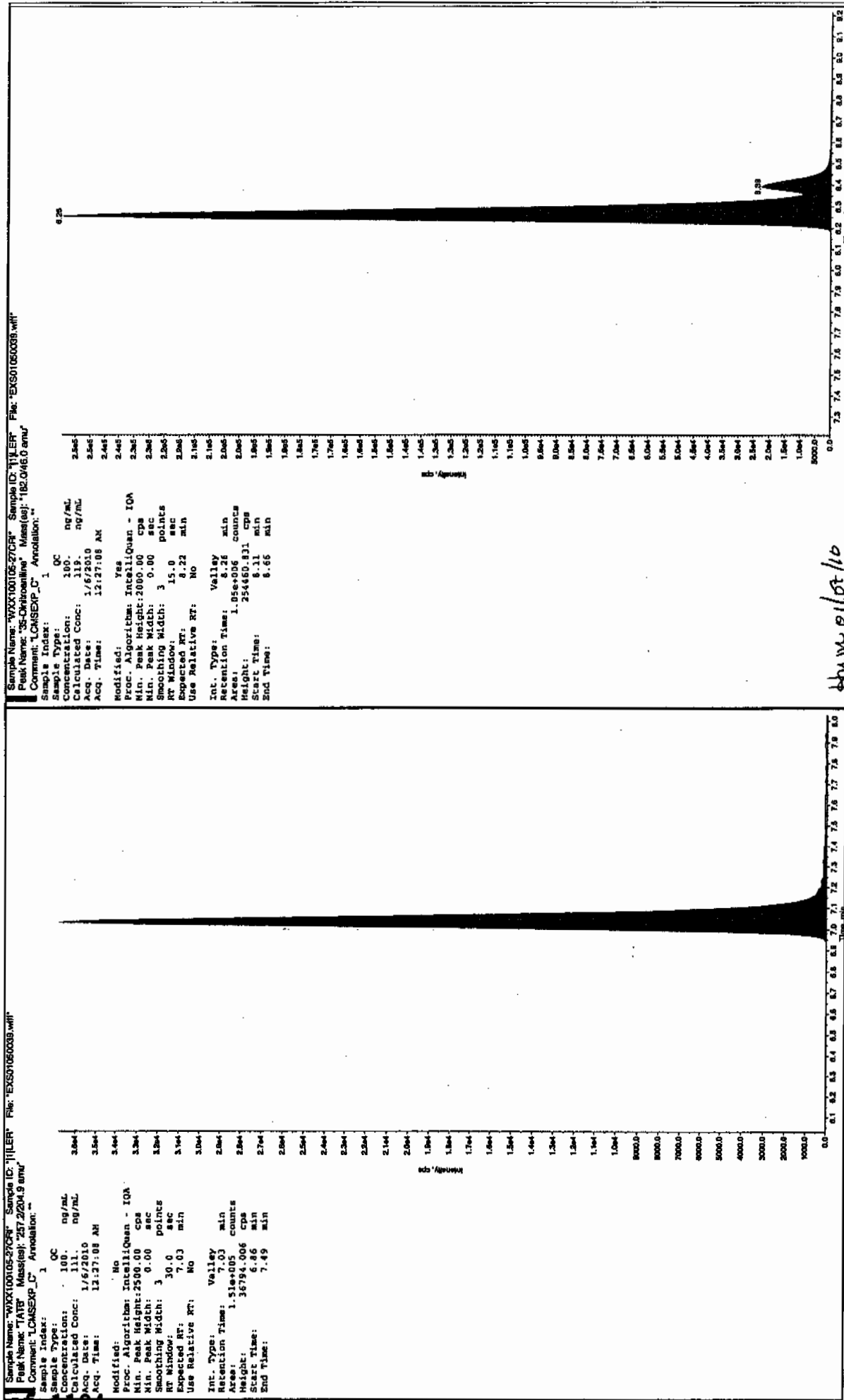
Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

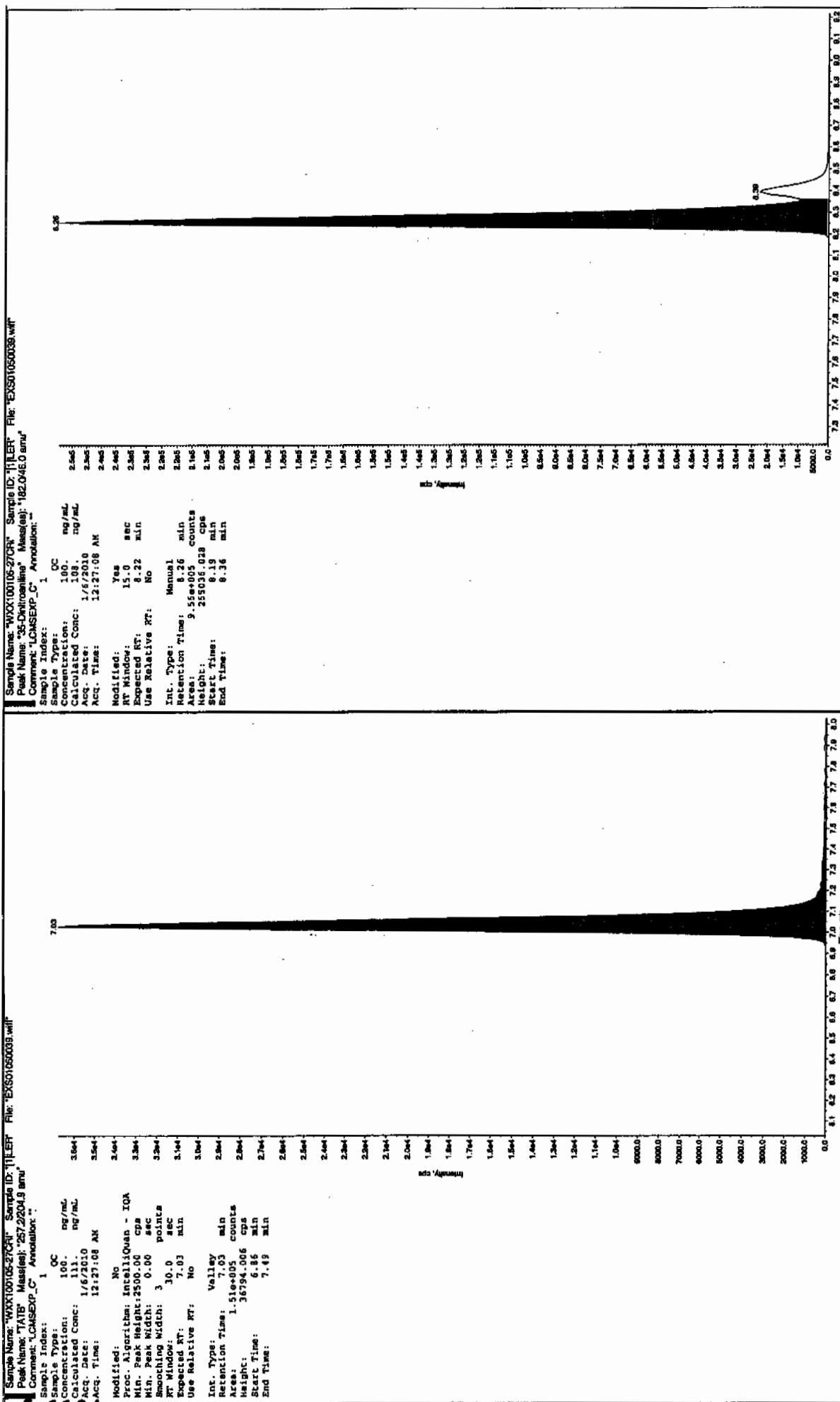
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

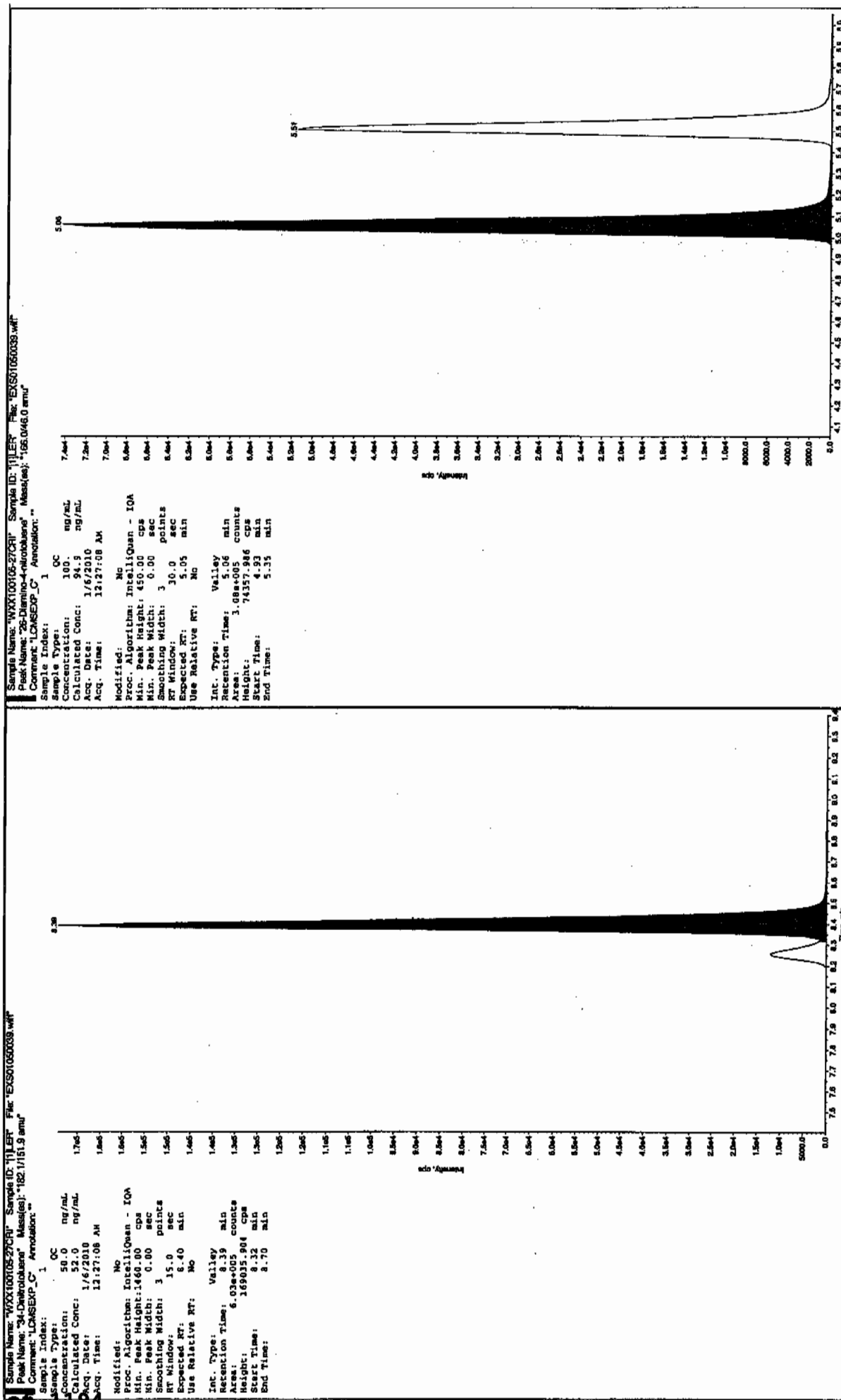
* Value outside of Recovery Limits



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



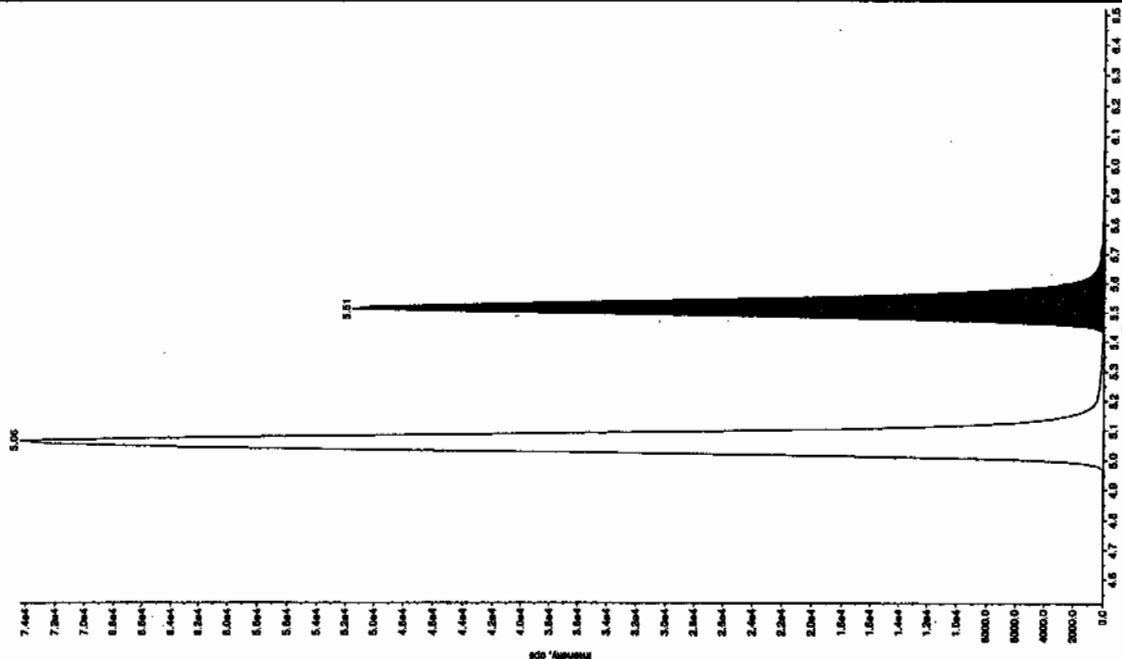
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

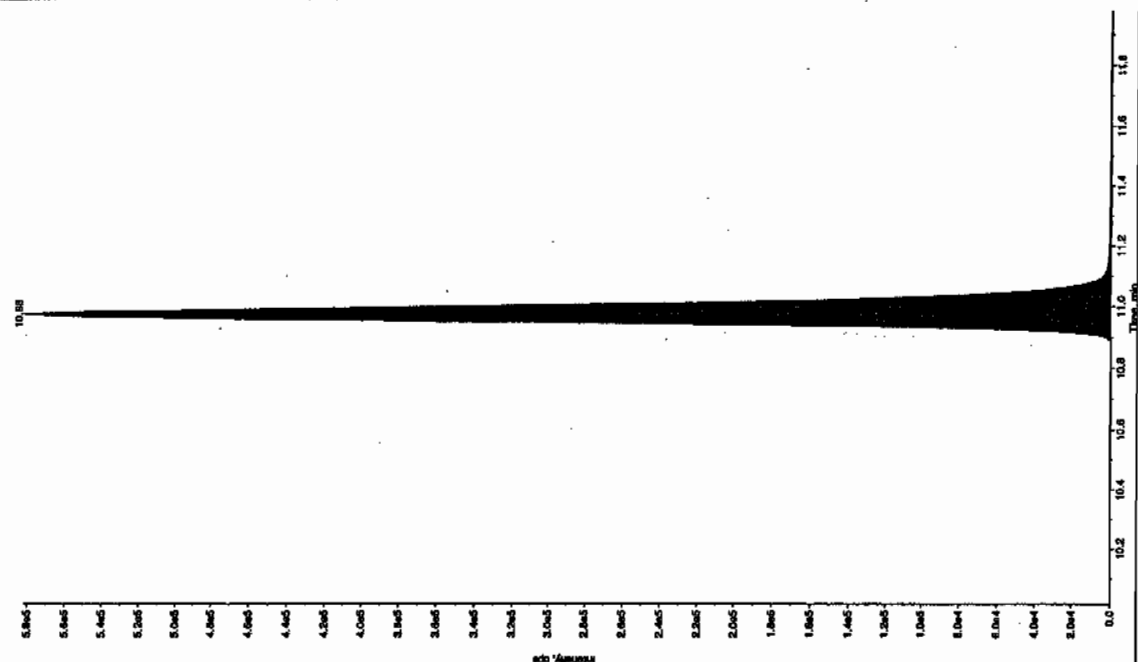
Sample Name: "WXX100105-27CR1" Sample ID: "111ER" File: "EXS01060039.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 53.6 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:27:08 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.31 min
 Area: 2.07e+003 counts
 Height: 5143.441 cps
 Start Time: 5.45 min
 End Time: 5.82 min



Sample Name: "WXX100105-27CR1" Sample ID: "111ER" File: "EXS01060039.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 53.6 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 12:27:08 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 11.0 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 11.0 min
 Area: 2.34e+006 counts
 Height: 581525.391 cps
 Start Time: 10.9 min
 End Time: 11.3 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050050.wiff

Analysis Date: 06-JAN-10 03:19

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	479	96	
2,6-Diamino-4-nitrotoluene	500	449	90	
3,4-Dinitrotoluene	250	224	90	
3,5-Dinitroaniline	500	515	103	
TATB	500	537	107	
tris(o-cresyl) phosphate	500	476	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Handwritten: 8/10/10

Sample Name: "WXX100106-282CV" Sample ID: "111EF" File: "EXS01050050.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 515. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:19:58 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 points

Smoothing Width: 3

RT Window: 30.0 sec

Expected RT: 7.03 min

Use Relative RT: No

Int. Type: Valley

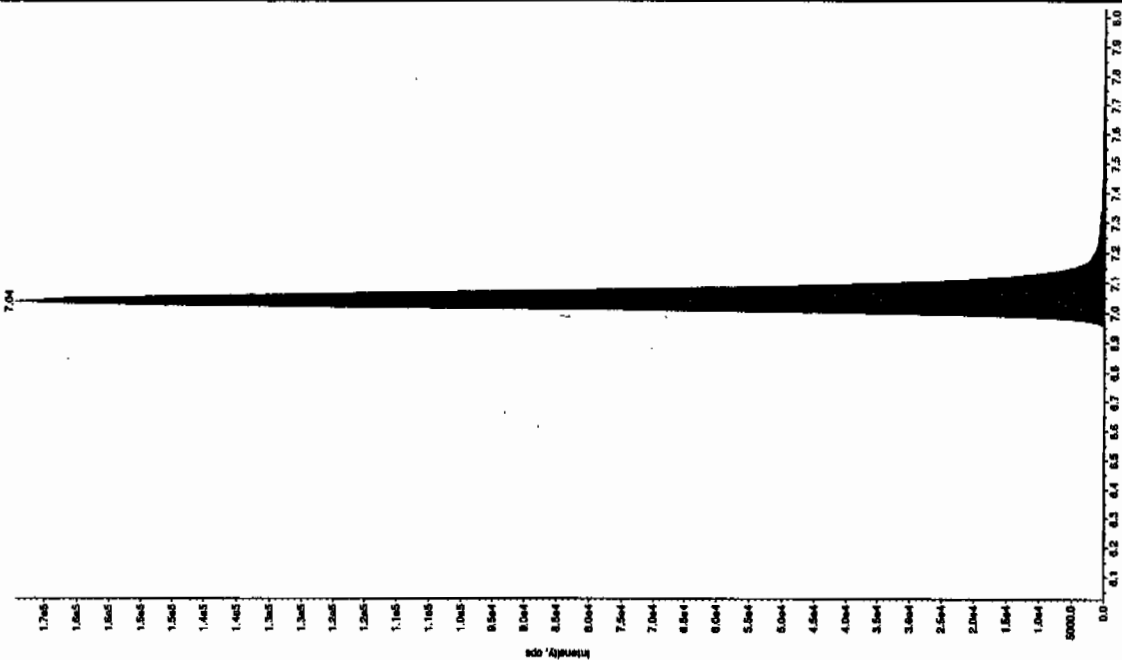
Retention Time: 7.04 min

Area: 7.34e+005 counts

Height: 169553.772 cps

Start Time: 6.90 min

End Time: 7.75 min



Sample Name: "WXX100105-282CV" Sample ID: "111EF" File: "EXS01050050.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0463.0 amu"

Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 515. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:19:58 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 points

Smoothing Width: 3

RT Window: 15.0 sec

Expected RT: 8.27 min

Use Relative RT: No

Int. Type: Valley

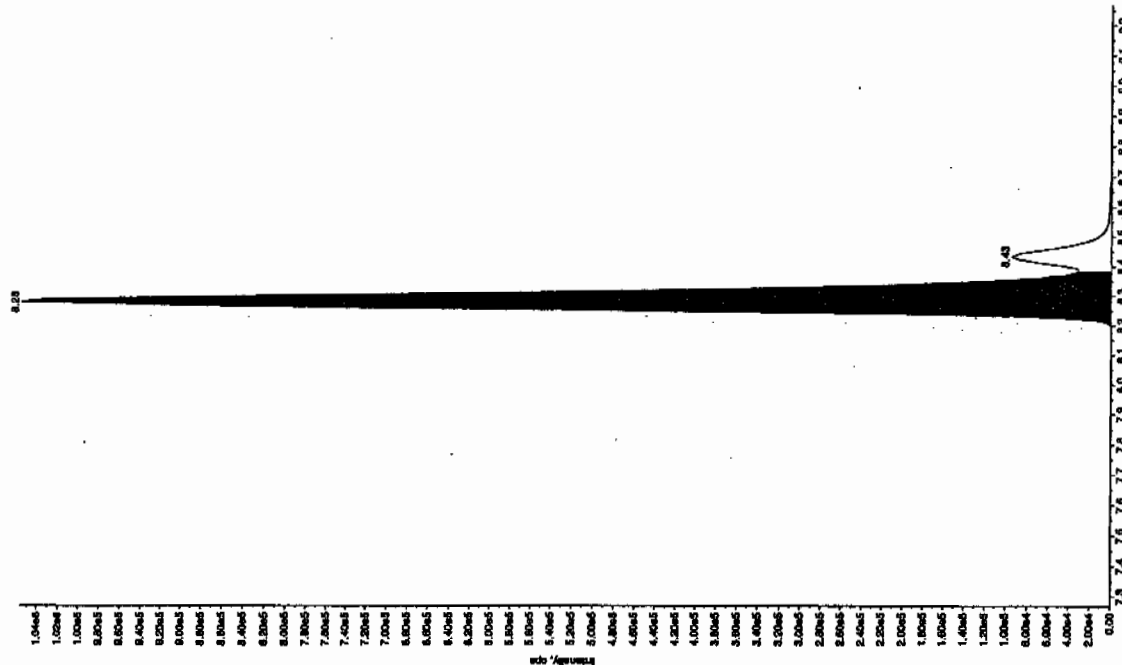
Retention Time: 8.28 min

Area: 4.37e+006 counts

Height: 1056483.398 cps

Start Time: 8.17 min

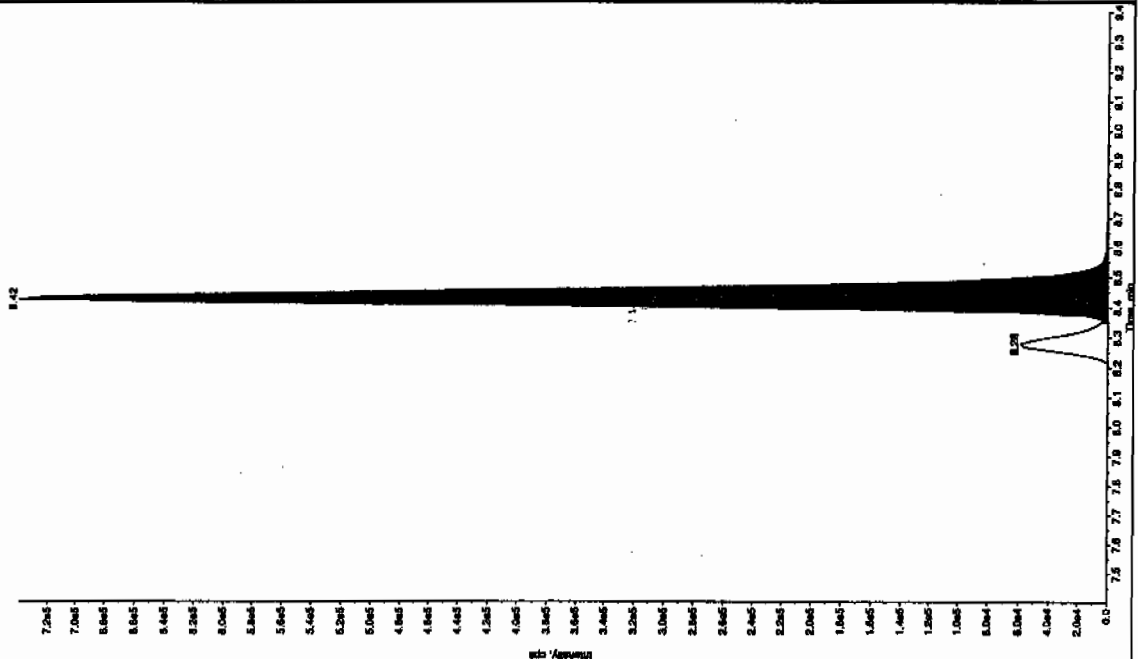
End Time: 8.38 min



Handwritten: Hm 01/08/10

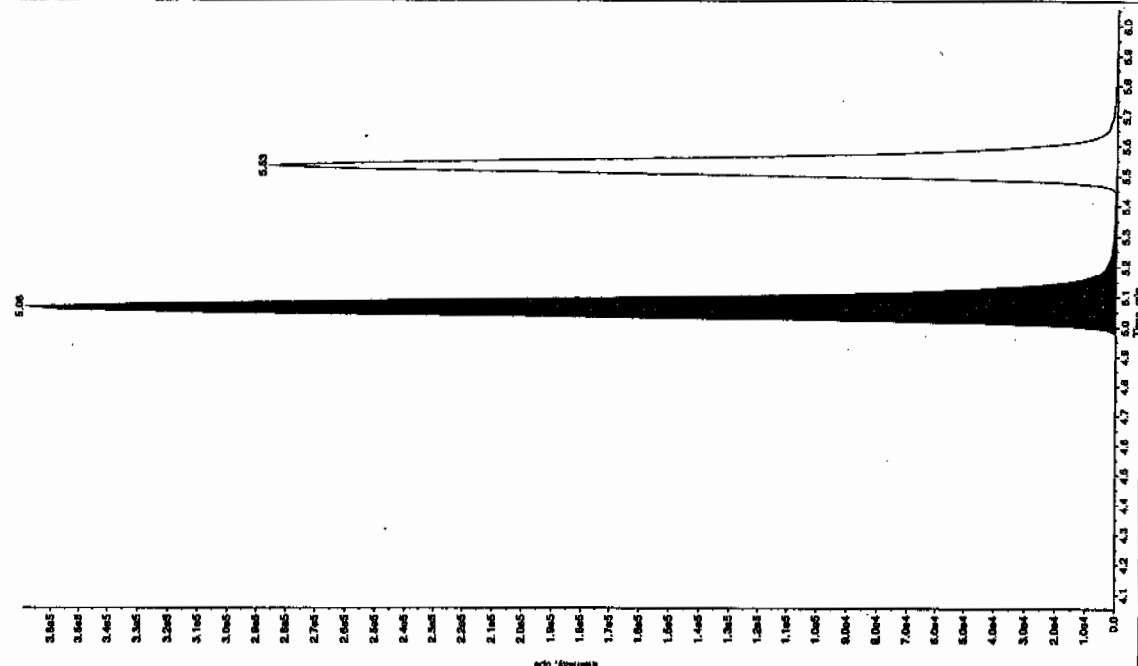
Sample Name: "WXX100105-2600V" Sample ID: "111ER" File: "EXS01050050.wif"
 Peak Name: "26-Clomiro-4-nitrobutene" Mass(es): "182.1715.9 amu"
 Comment: "LCMSXP_C" Annotation: "

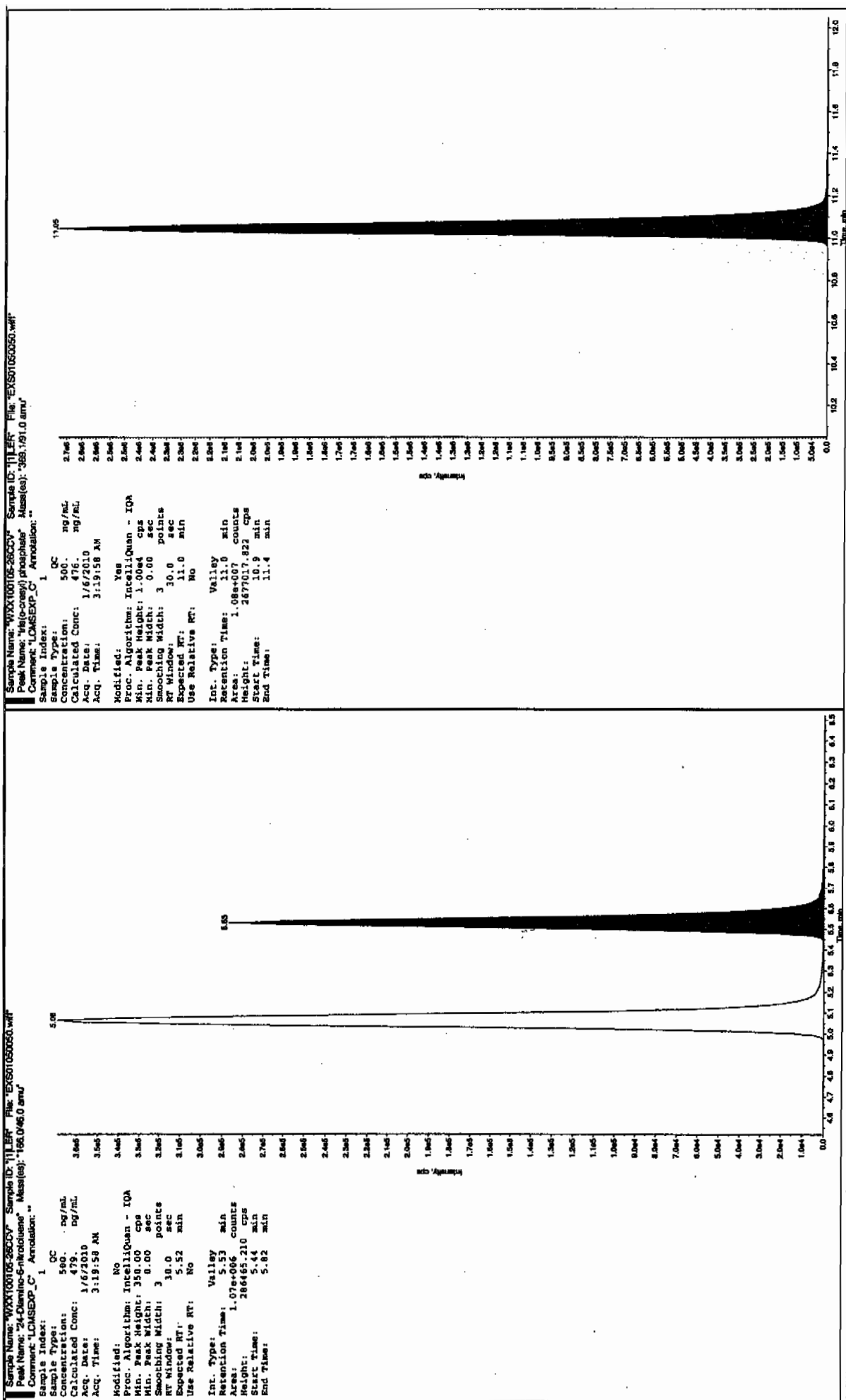
Sample Index: 1
 Sample Type: QC
 Concentration: 250 ng/mL
 Calculated Conc: 224 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:19:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.43 min
 Area: 2.80e+006 counts
 Height: 739106.167 cps
 Start Time: 8.35 min
 End Time: 8.74 min



Sample Name: "WXX100105-2600V" Sample ID: "111ER" File: "EXS01050050.wif"
 Peak Name: "26-Clomiro-4-nitrobutene" Mass(es): "186.0463.0 amu"
 Comment: "LCMSXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 449 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:19:58 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.06 min
 Area: 1.54e+007 counts
 Height: 369188.477 cps
 Start Time: 4.95 min
 End Time: 5.36 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050052.wiff

Analysis Date: 06-JAN-10 03:51

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	80.6	81	
2,6-Diamino-4-nitrotoluene	100	86.8	87	
3,4-Dinitrotoluene	50	52	104	
3,5-Dinitroaniline	100	105	105	
TATB	100	107	107	
tris(o-cresyl) phosphate	100	97	97	

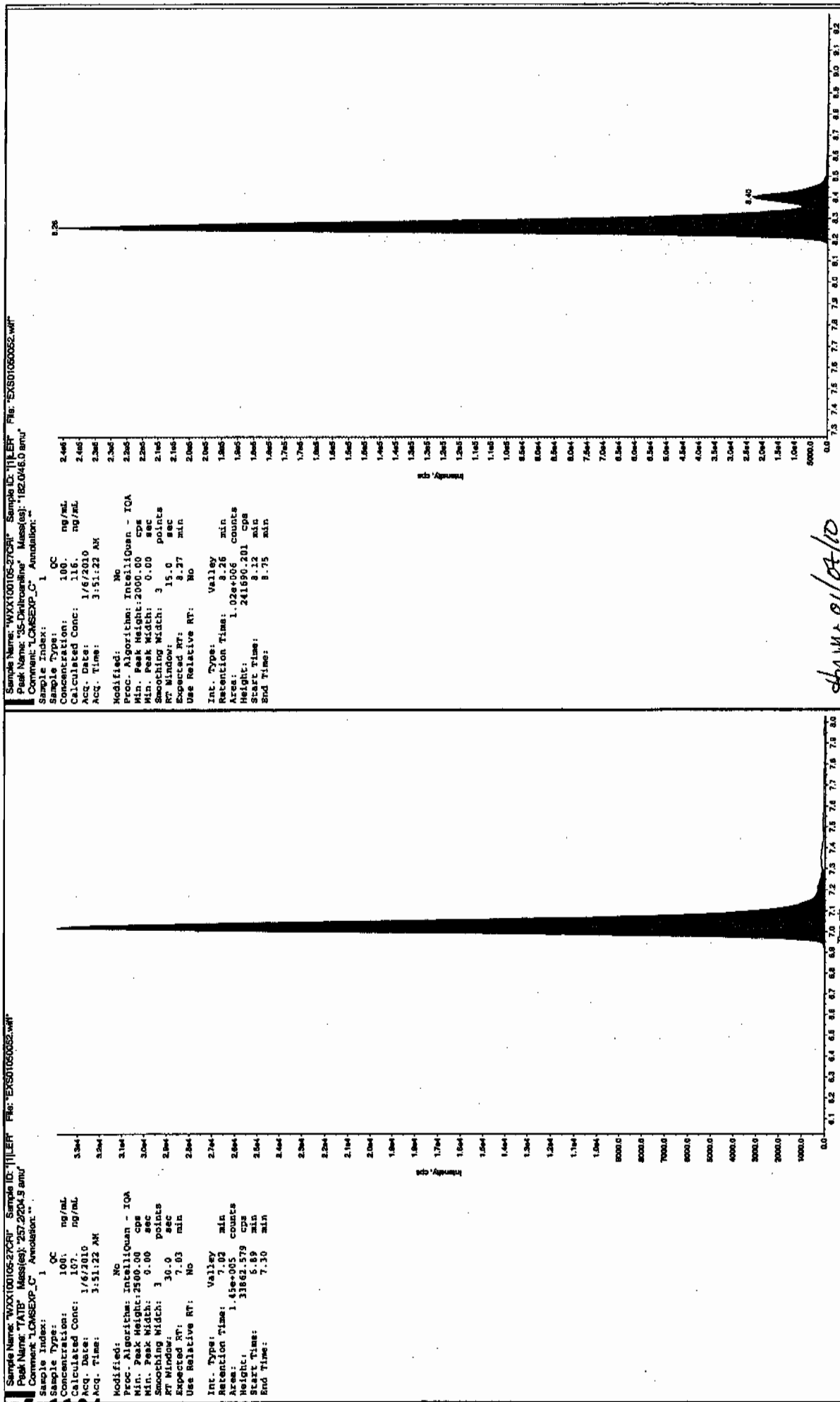
Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits



04/11/10
2011/10/11

Sample Name: "WXX100105-2709" Sample ID: "11194" File: "EXS01050052.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 100. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:51:23 AM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 7.03 min

Use Relative RT: No

Int. Type: Valley

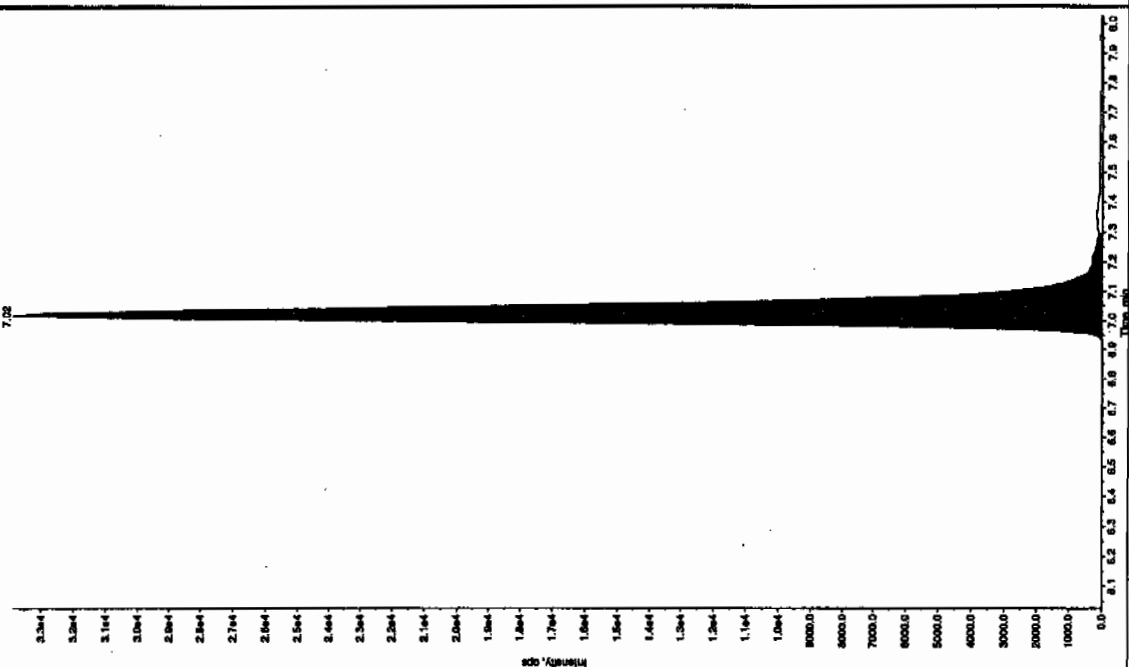
Retention Time: 7.02 min

Area: 1.45e+005 counts

Height: 33862.379 cps

Start Time: 6.99 min

End Time: 7.30 min



Sample Name: "WXX100105-2709" Sample ID: "11194" File: "EXS01050052.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 100. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:51:22 AM

Modified: Yes

RT Window: 15.0 sec

Expected RT: 8.27 min

Use Relative RT: No

Int. Type: Manual

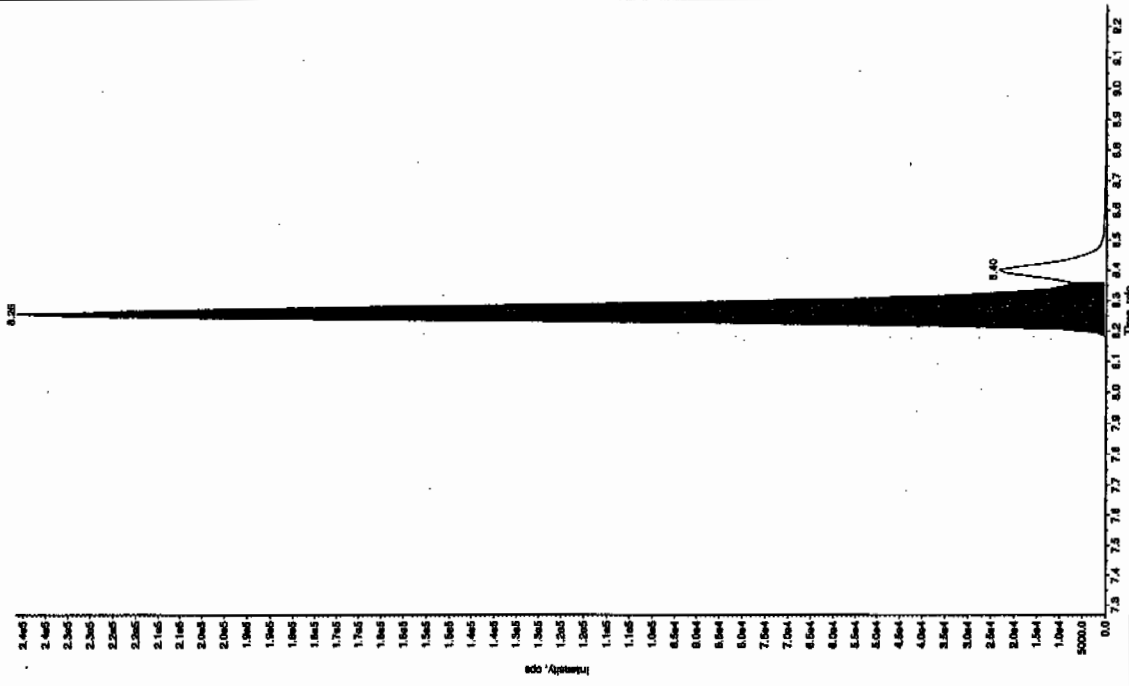
Retention Time: 8.26 min

Area: 9.28e+005 counts

Height: 241506.723 cps

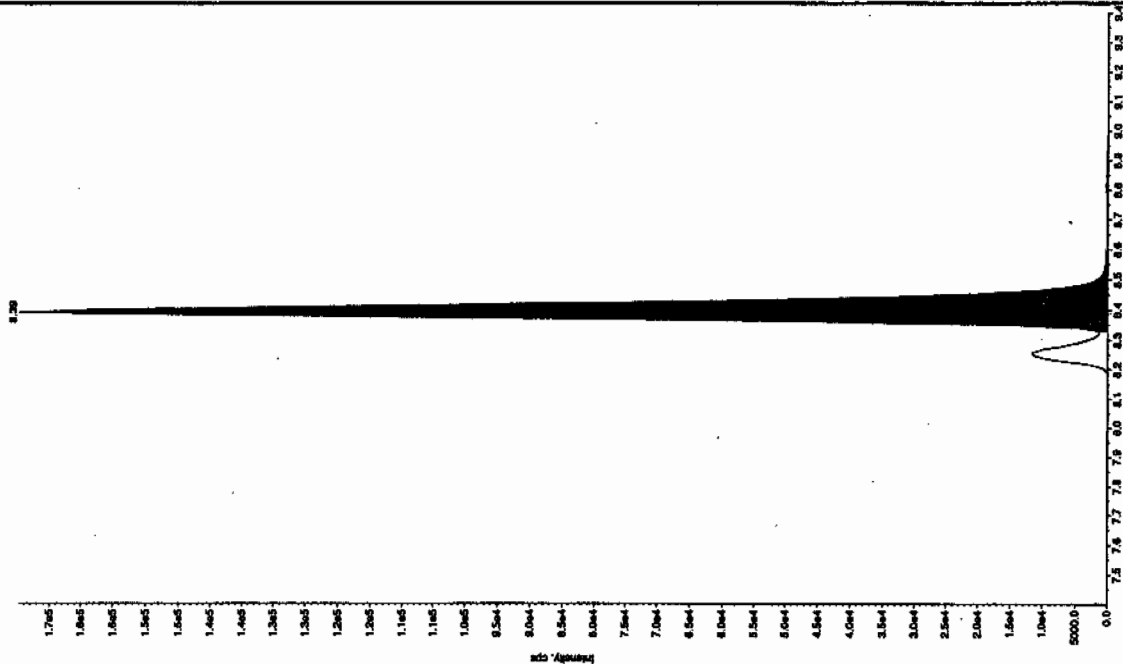
Start Time: 8.19 min

End Time: 8.36 min



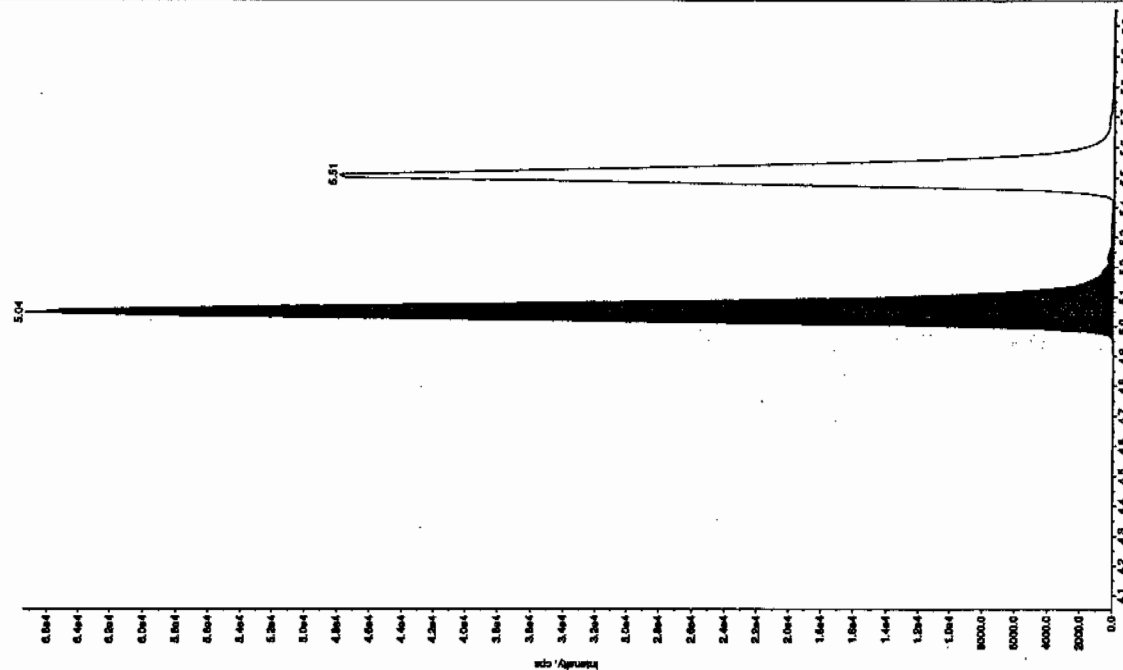
Sample Name: "XXX100105-2705" Sample ID: "111EP" File: "EX501050052.wif"
 Peak Name: "34-Dibenzoketone" Mass(es): "182.1751.9 amu"
 Comment: "LCMS-EXP-C" Annotation: "

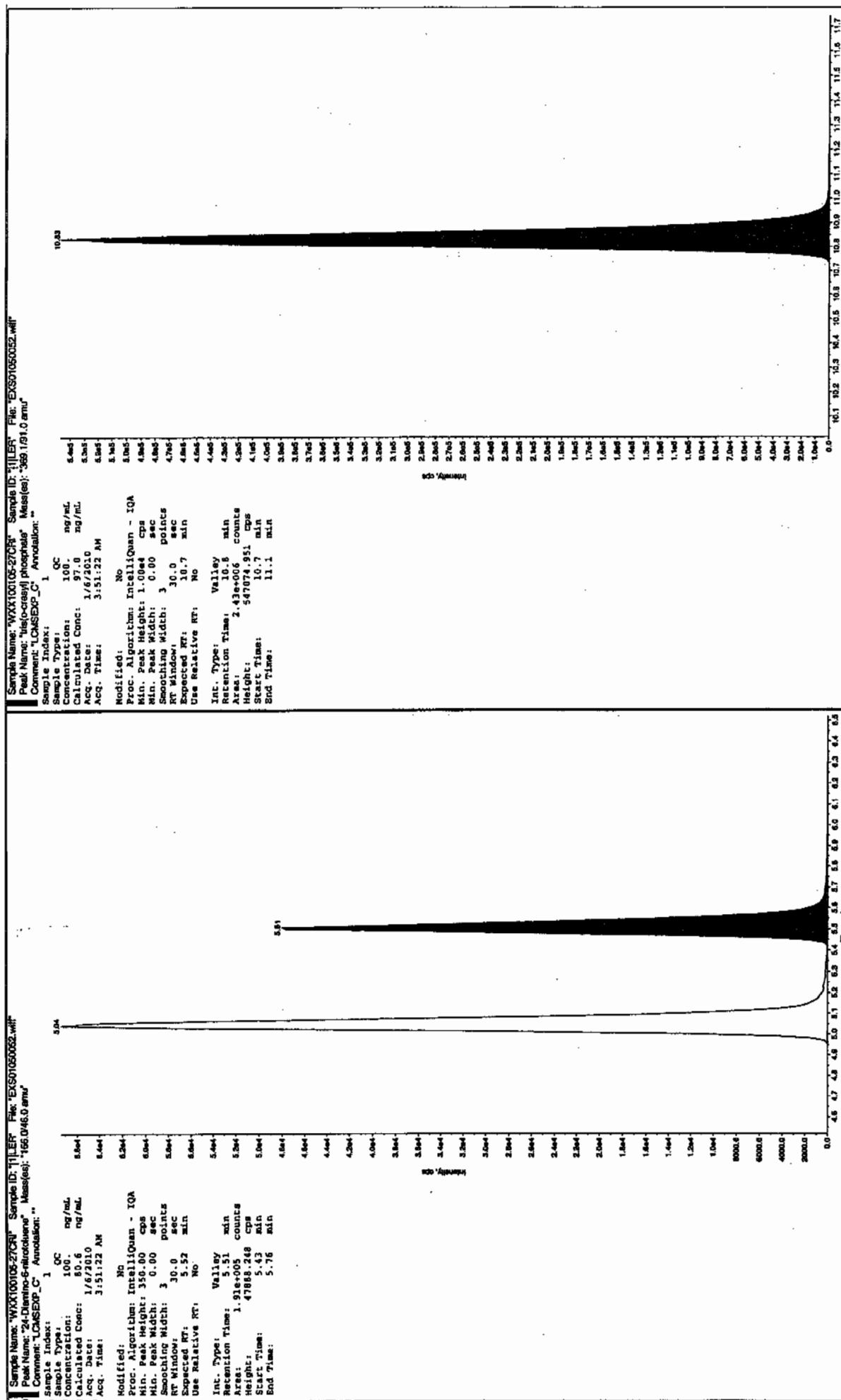
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 52.0 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:51:22 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.39 min
 Area: 6.03e+005 counts
 Height: 169566.829 cps
 Start Time: 8.33 min
 End Time: 8.48 min



Sample Name: "XXX100105-2705" Sample ID: "111EP" File: "EX501050052.wif"
 Peak Name: "36-Dibenzoketone" Mass(es): "186.0463.0 amu"
 Comment: "LCMS-EXP-C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 86.8 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:51:22 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 2.79e+005 counts
 Height: 67436.714 cps
 Start Time: 4.93 min
 End Time: 5.31 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050063.wiff

Analysis Date: 06-JAN-10 06:44

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	494	99	
2,6-Diamino-4-nitrotoluene	500	452	90	
3,4-Dinitrotoluene	250	222	89	
3,5-Dinitroaniline	500	508	102	
TATB	500	542	108	
tris(o-cresyl) phosphate	500	491	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

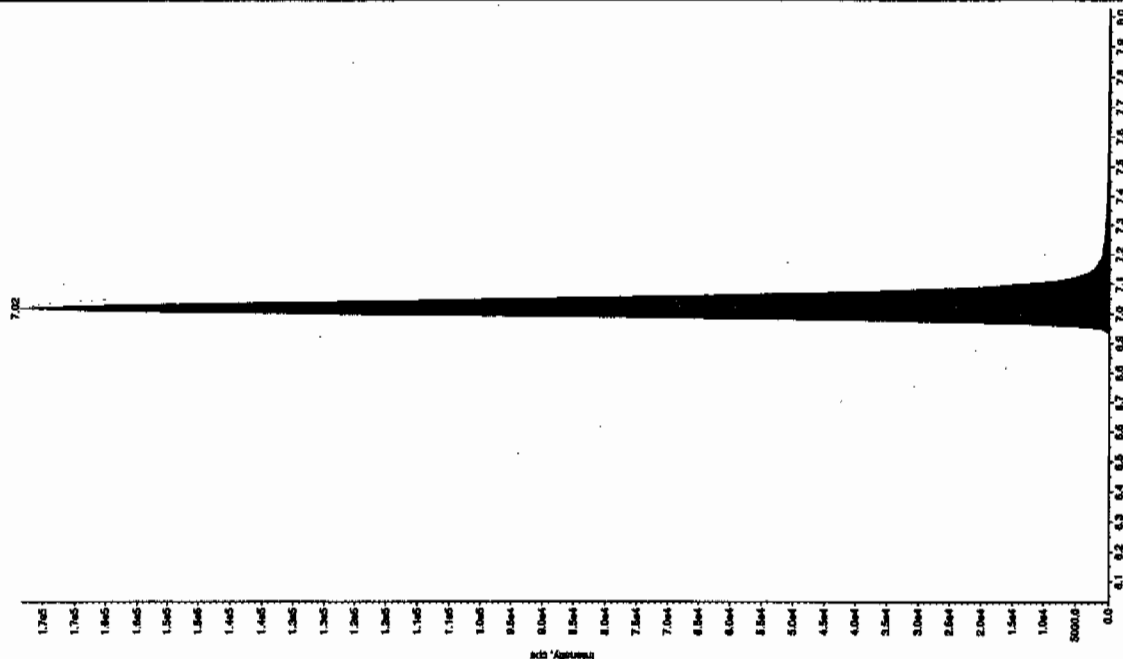
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before
1/17/10

Sample Name: "WXX100105-260V" Sample ID: "1194" File: "EXS01050063.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 and
Compound: "LCMSEXP_C" Annotation:

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 542. ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 6:44:06 AM
Acq. Time: 6:44:06 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 3 0.00 sec
Smoothing Width: 30.0 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.03 min
Area: 7.40e+005 counts
Height: 173497.681 cps
Start Time: 6.90 min
End Time: 7.68 min



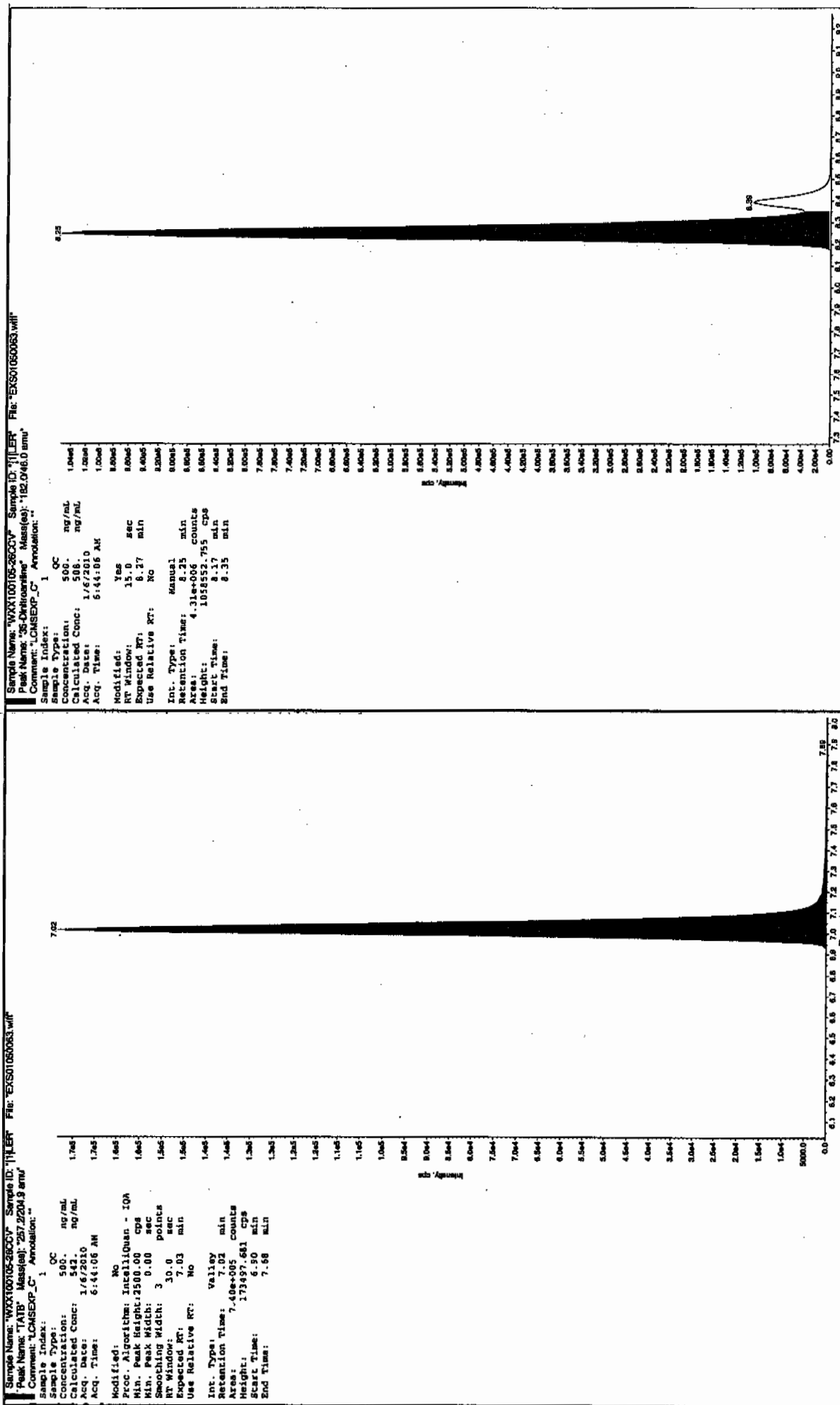
Sample Name: "WXX100105-260V" Sample ID: "1194" File: "EXS01050063.wif"
Peak Name: "TATB" Mass(es): "182.0440.0 amu"
Compound: "LCMSEXP_C" Annotation:

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 545. ng/mL
Calculated Conc: 1/6/2010
Acq. Date: 6:44:06 AM
Acq. Time: 6:44:06 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 3 0.00 sec
Smoothing Width: 30.0 points
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.25 min
Area: 4.75e+005 counts
Height: 1054166.260 cps
Start Time: 8.14 min
End Time: 8.72 min



Ham 8/10/10

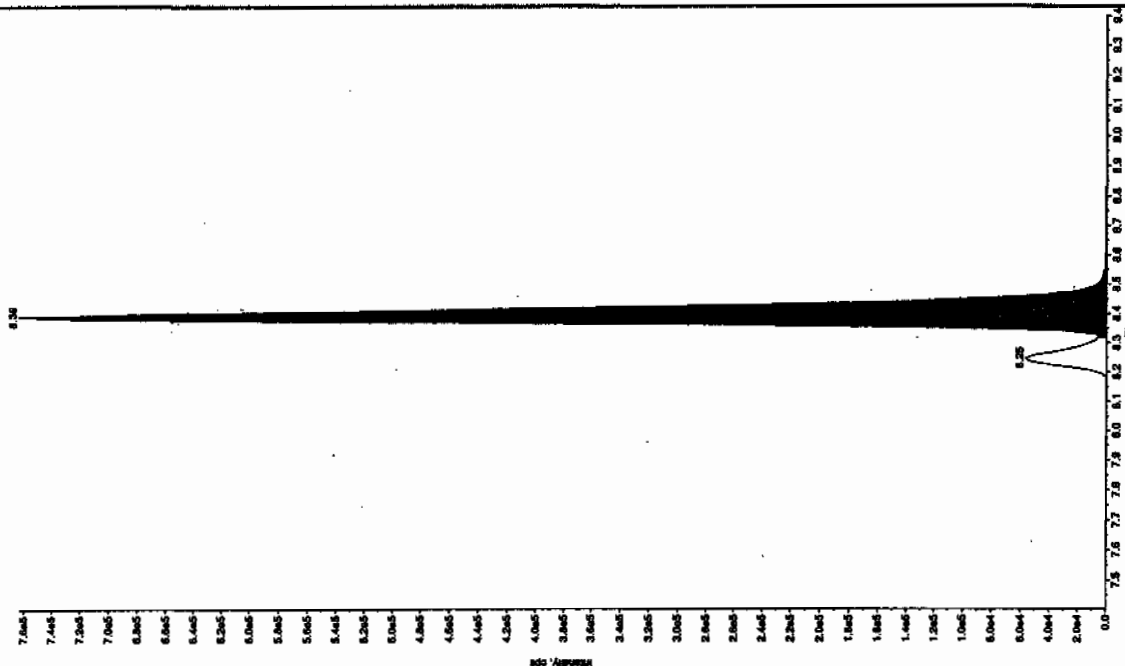
17/11/10
2024
Jagadev



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

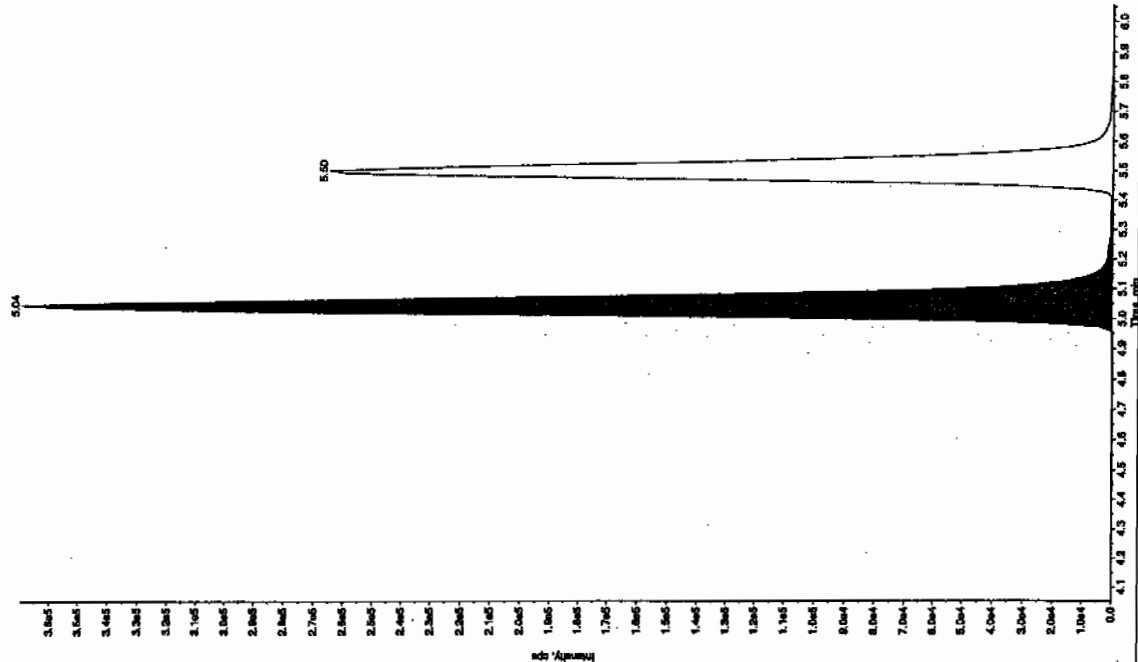
Sample Name: "WXX100105-280CV" Sample ID: "111ER" File: "EXS01050063.wif"
 Peak Name: "24-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 222. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:44:06 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.39 min
 Area: 2.78e+006 counts
 Height: 762702.087 cps
 Start Time: 8.32 min
 End Time: 8.72 min



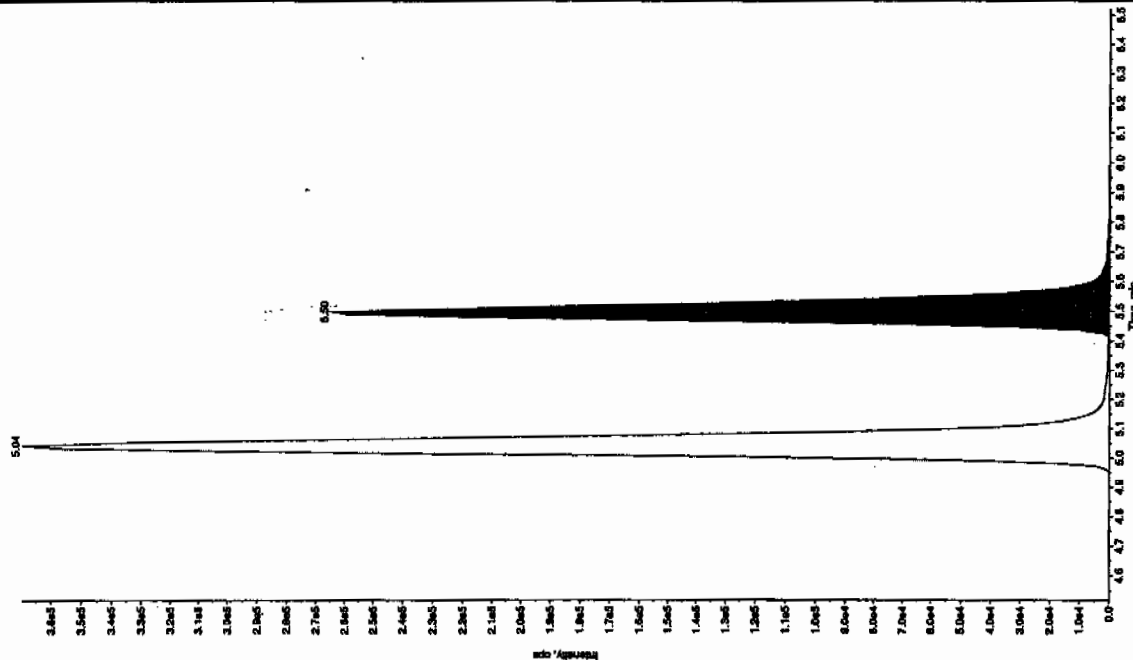
Sample Name: "WXX100105-280CV" Sample ID: "111ER" File: "EXS01050063.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "166.0/146.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 432. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:44:06 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 1.55e+006 counts
 Height: 369356.866 cps
 Start Time: 4.93 min
 End Time: 5.33 min



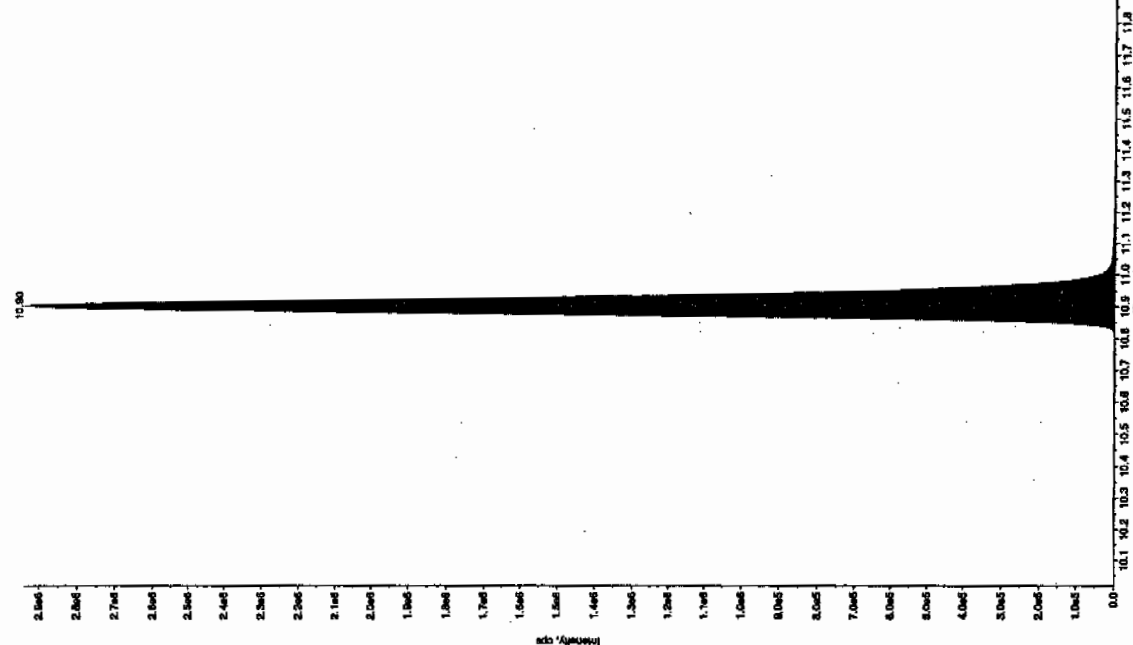
Sample Name: WXX100105-280CYP Sample ID: 111187 File: EXS01050083.wif
 Peak Name: "24-Omecho-6-merodienol" Mass(es): 160.046.0 amu
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 494 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:44:05 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.50 min
 Area: 1.11e+007 counts
 Height: 26795.563 cps
 Start Time: 5.38 min
 End Time: 6.00 min



Sample Name: WXX100105-280CYP Sample ID: 111187 File: EXS01050083.wif
 Peak Name: "trigo-cresyl phosphate" Mass(es): 369.1791.0 amu
 Comment: "LONSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 491 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 6:44:06 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 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: 1.11e+007 counts
 Height: 293879.139 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050065.wiff

Analysis Date: 06-JAN-10 07:15

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	82.8	83	
2,6-Diamino-4-nitrotoluene	100	92.7	93	
3,4-Dinitrotoluene	50	48.7	98	
3,5-Dinitroaniline	100	105	105	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

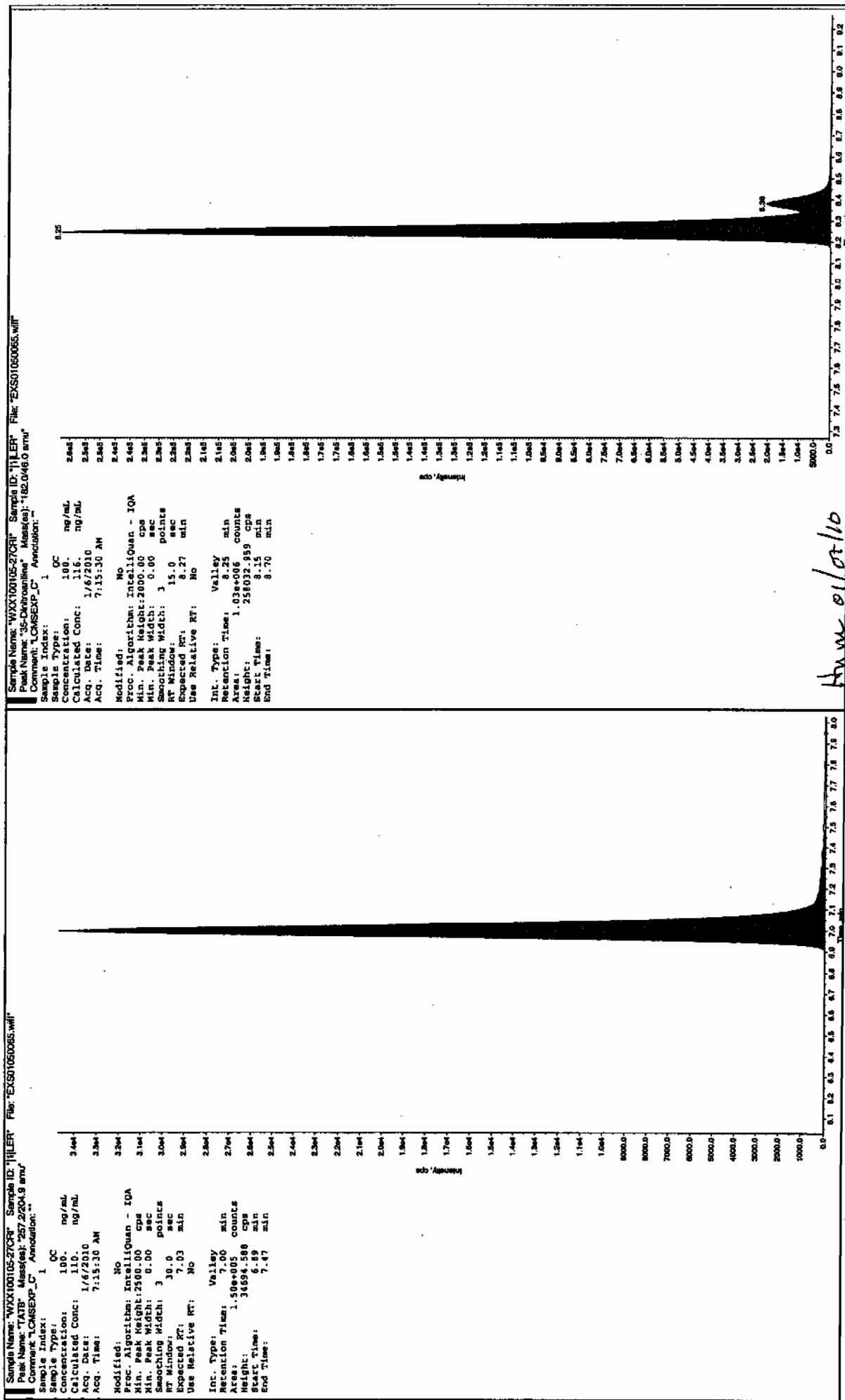
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/11/10
Diane

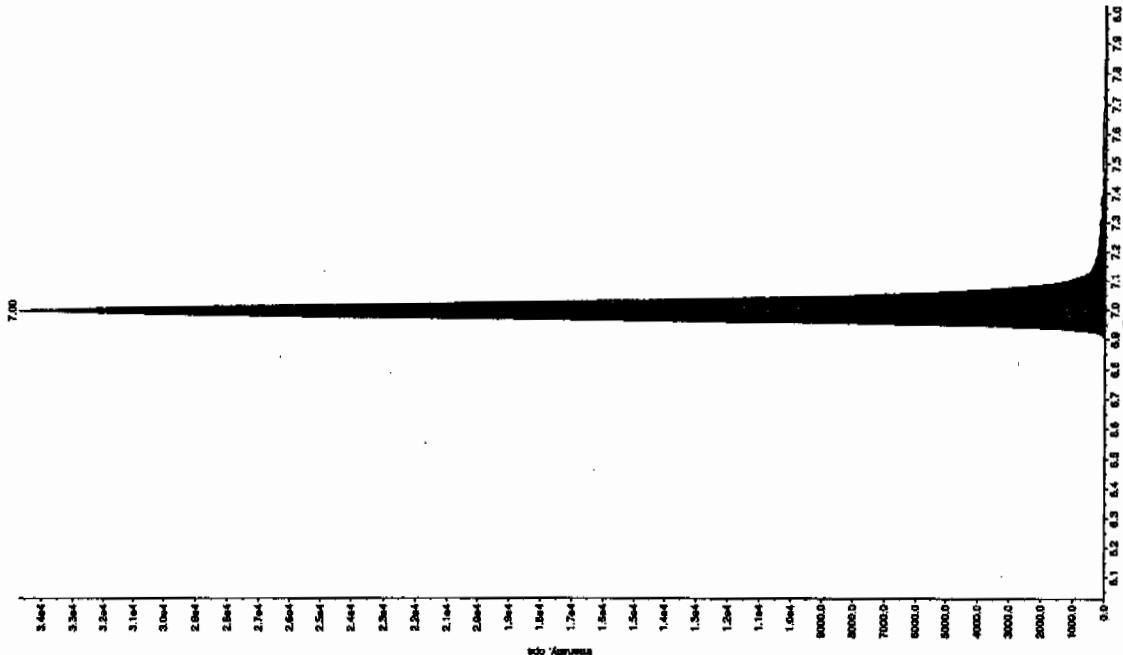


Hum 01/01/10

1/17/10
J. Lee

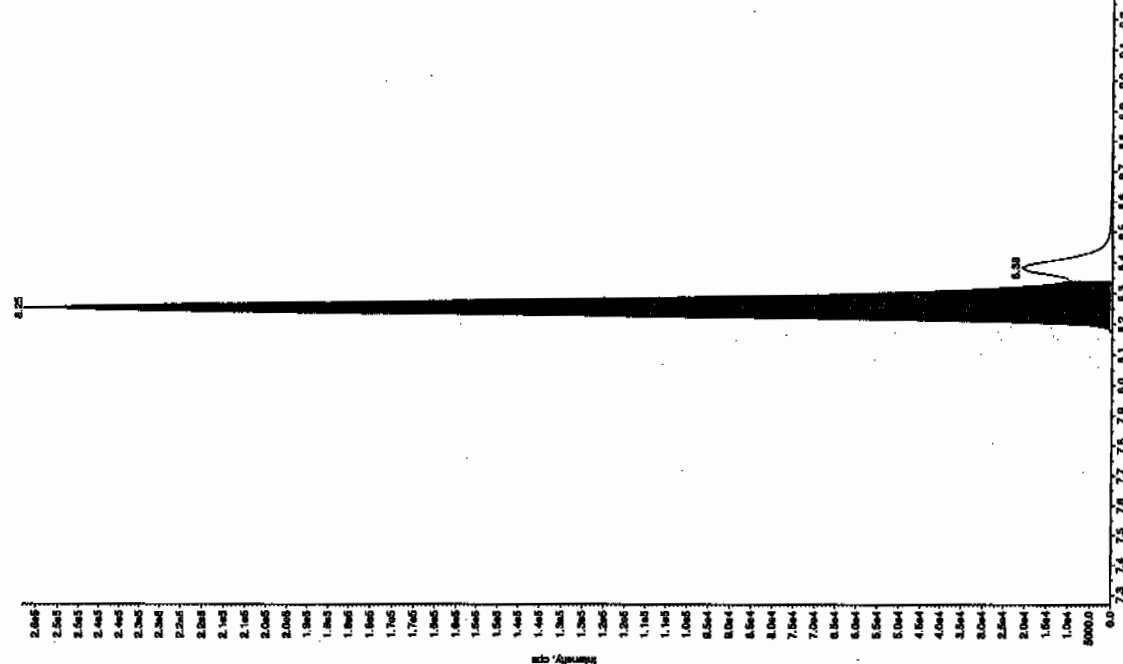
Sample Name: "WXX100105-270R" Sample ID: "11111" File: "EXS01050065.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 110. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:15:30 AM
Modified: No
Proc. Algorithm: IntelliQuan - ICA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.00 min
Area: 1.50e+005 counts
Height: 34691.588 cps
Start Time: 6.89 min
End Time: 7.47 min

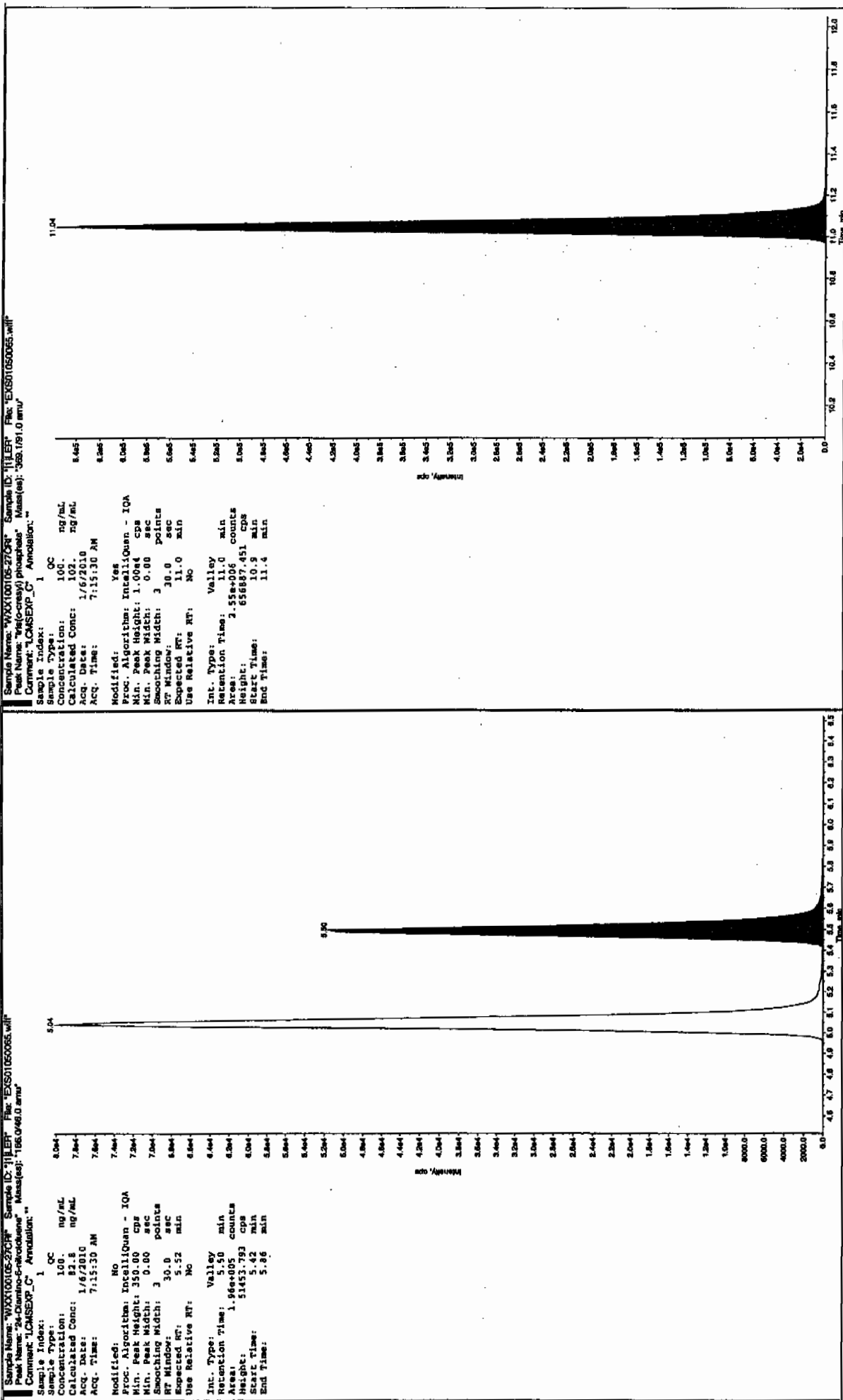


Sample Name: "WXX100105-270R" Sample ID: "11111" File: "EXS01050065.wif"
Peak Name: "35-Dihydroxy" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 105. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:15:30 AM
Modified: Yes
Proc. Algorithm: IntelliQuan - ICA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 8.17 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.25 min
Area: 9.34e+005 counts
Height: 258196.970 cps
Start Time: 8.17 min
End Time: 8.34 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1036Lab Code: GELGEL Sample ID: WXXCCVGEL Data File EXS01050070.wiffAnalysis Date: 06-JAN-10 08:34LCMSMS ID: 1358Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	430	86	
2,6-Diamino-4-nitrotoluene	500	427	85	
3,4-Dinitrotoluene	250	226	90	
3,5-Dinitroaniline	500	521	104	
TATB	500	548	110	
tris(o-cresyl) phosphate	500	484	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

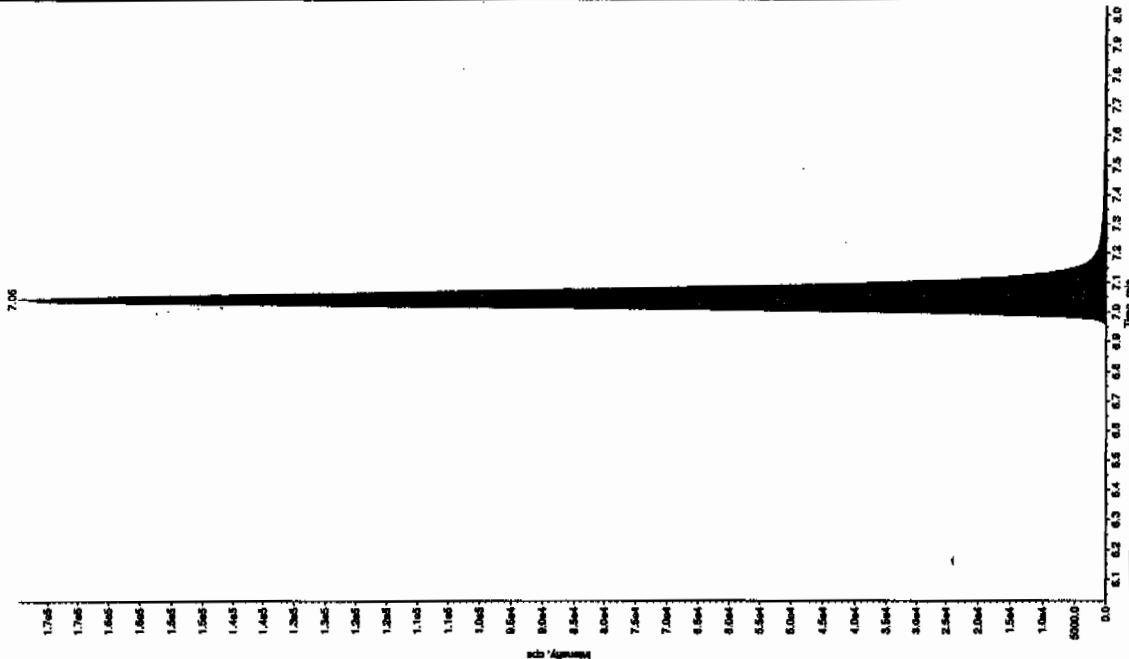
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/16/10
Before

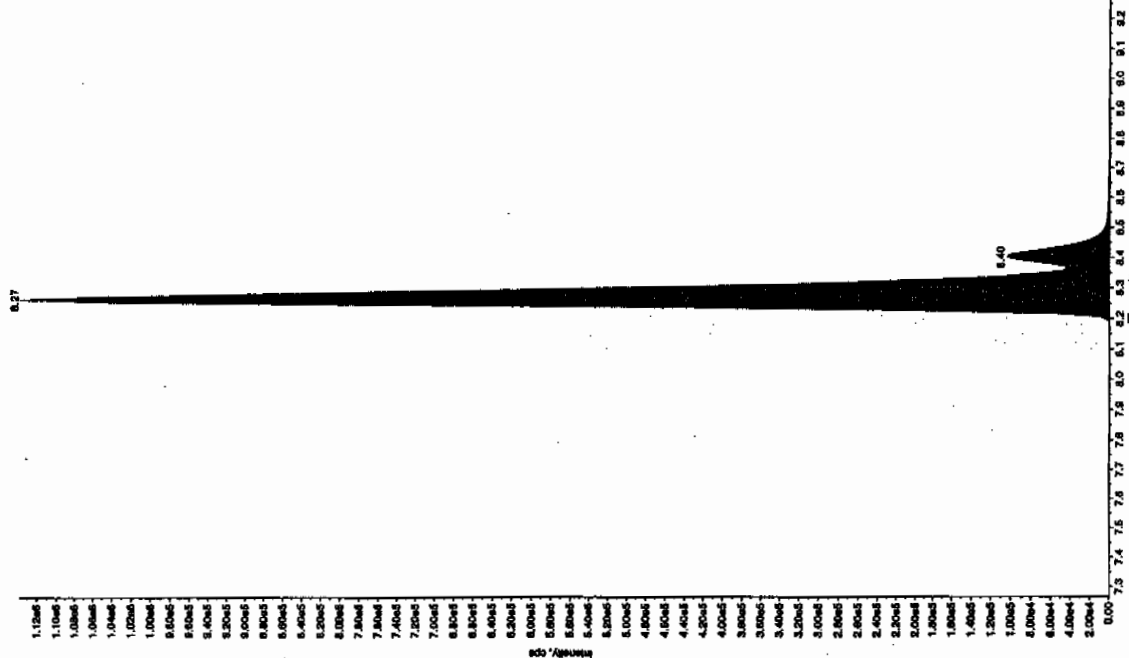
Sample Name: "WXX100105-2800V" Sample ID: "JILLER" File: "EXS01050070.wif"
Peak Name: "TATB" Mass(es): 257.2/204.3 amu
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 548. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 8:34:04 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.03 min
Area: 7.49e+005 counts
Height: 17487624 cps
Scan Time: 0.32 min
End Time: 7.33 min



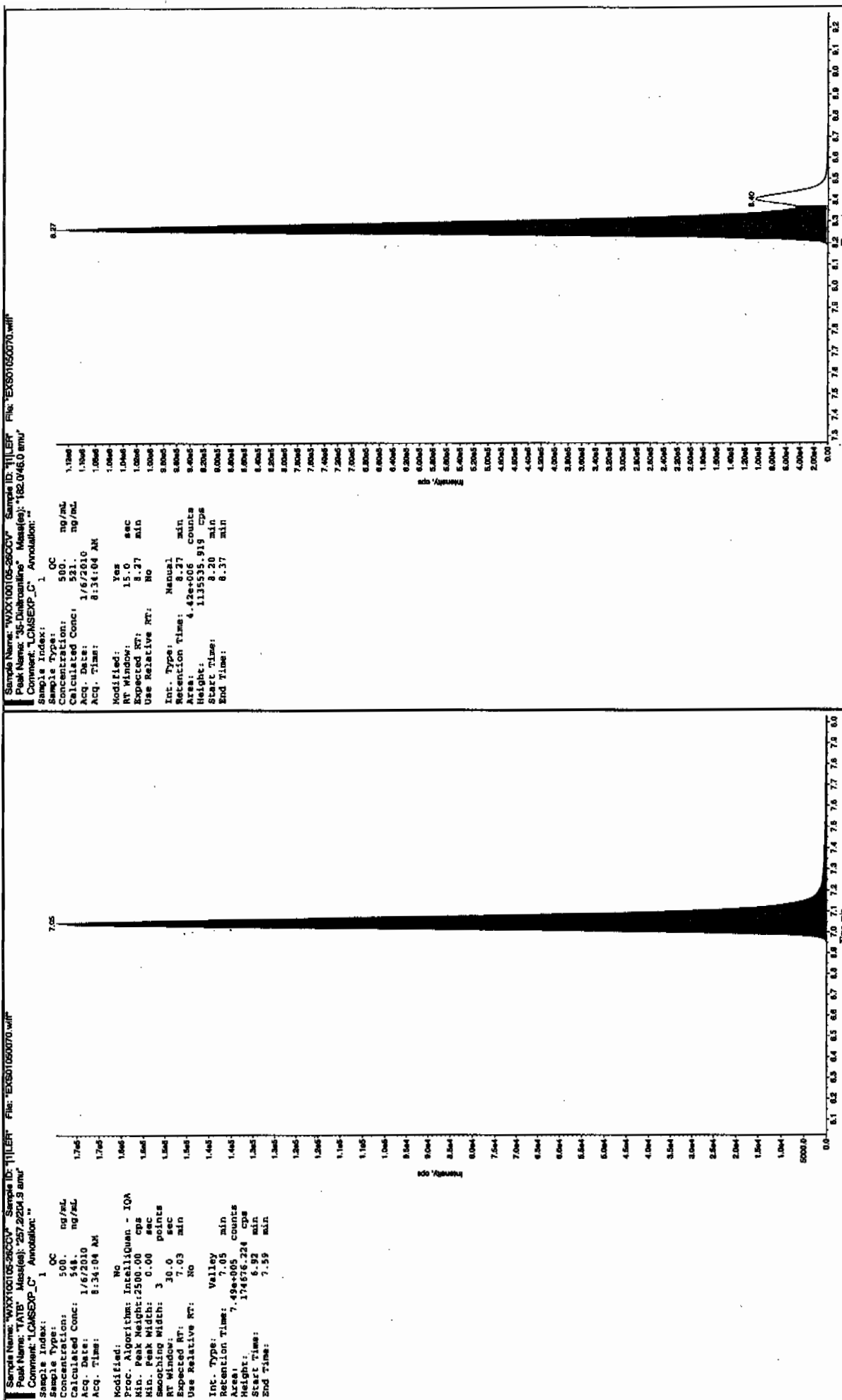
Sample Name: "WXX100105-2800V" Sample ID: "JILLER" File: "EXS01050070.wif"
Peak Name: "35-Chloroaniline" Mass(es): 182.0/165.0 amu
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
Sample Type: QC
Concentration: 500. ng/mL
Calculated Conc: 578. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 8:34:04 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.27 min
Area: 4.86e+006 counts
Height: 1137728.882 cps
Scan Time: 1.15 min
End Time: 8.76 min

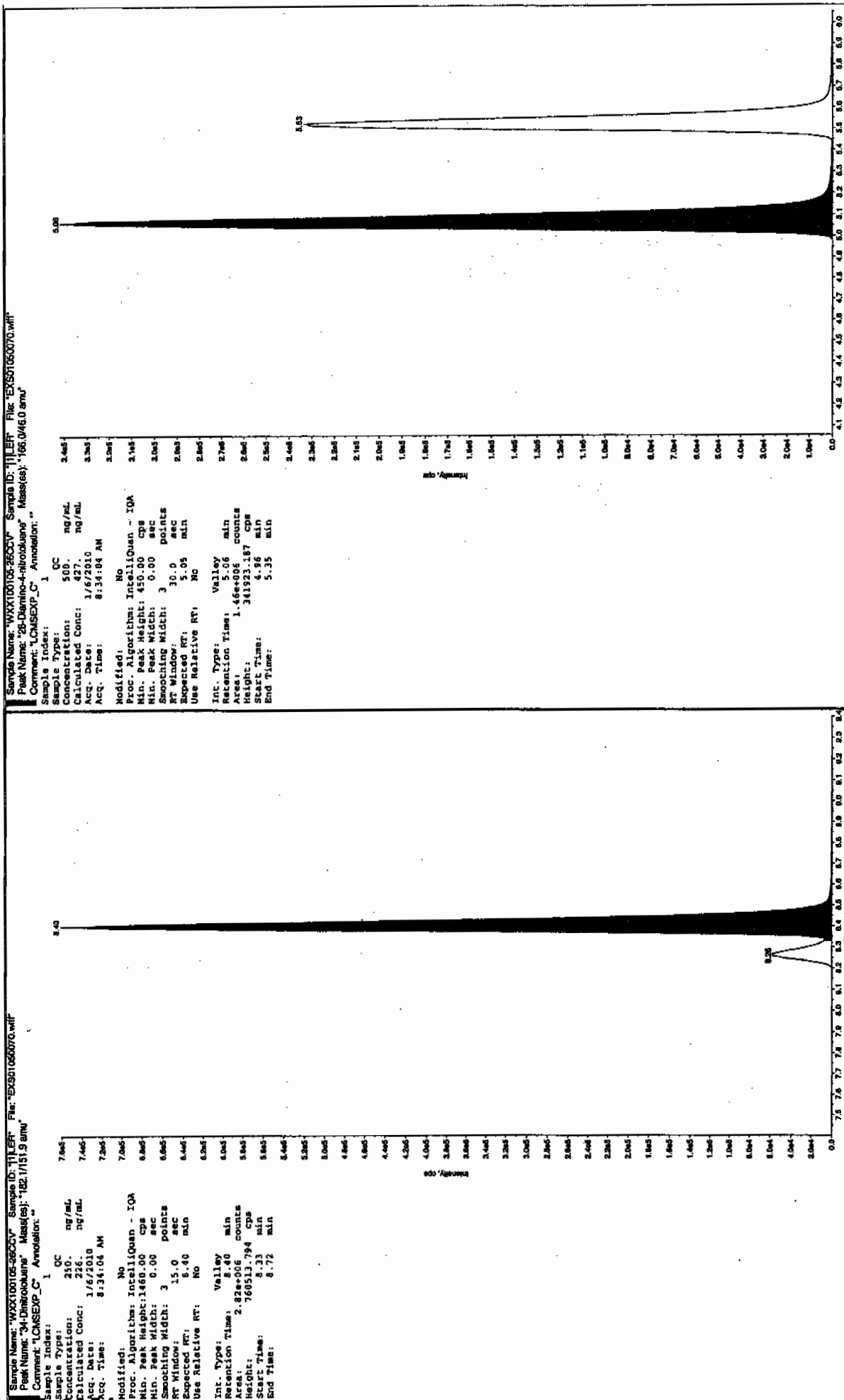


After 01/07/10

OK
2/2/10



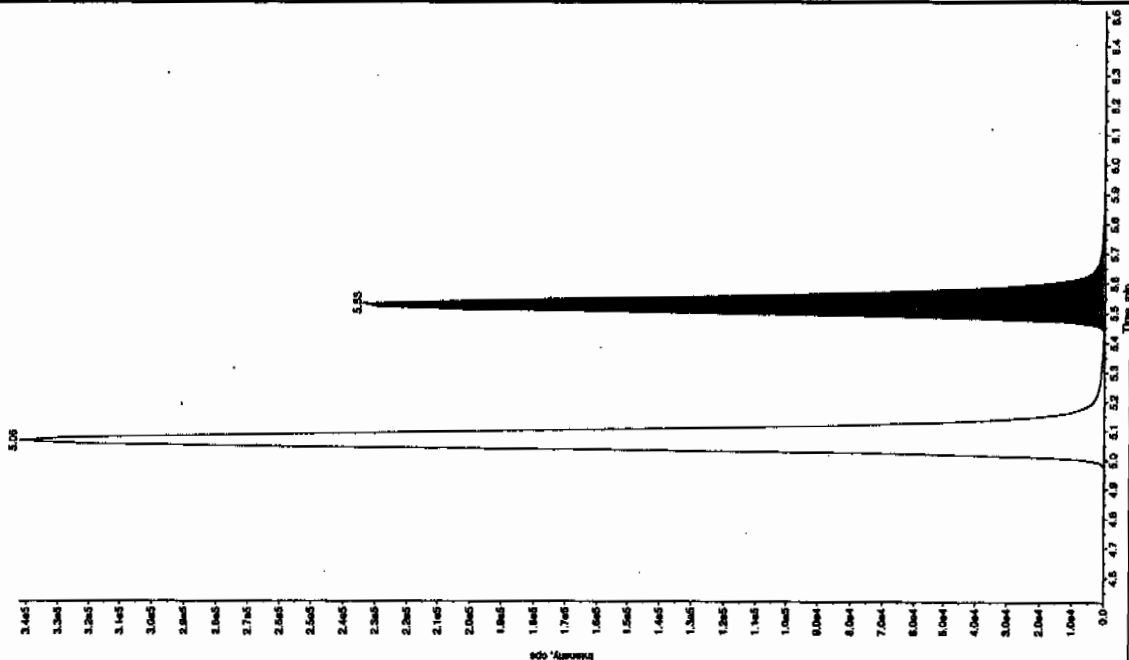
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

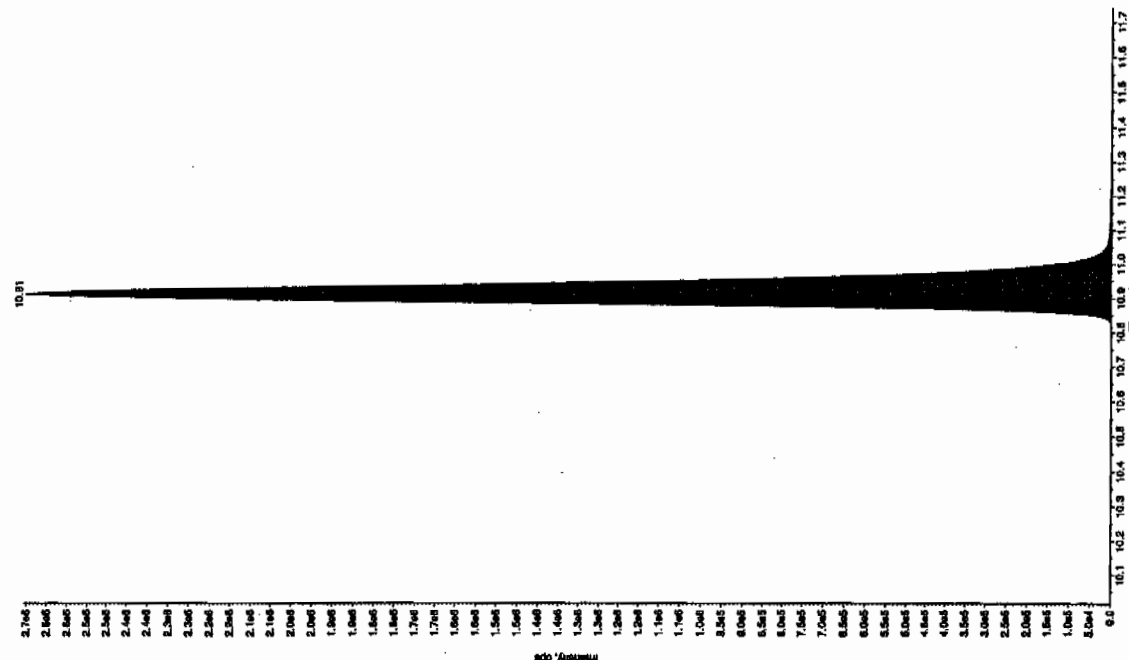
Sample Name: WXX100105-250CV Sample ID: 11187 File: EXS01060070.wif
 Peak Name: "tri(n-o-ethyl) phosphate" Mass(es): 160.046.0 and

Comment: "LCMSXP_C" Annotation: 1
 Sample Index: 1
 Sample Name: WXX100105-250CV
 Concentration: 500 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 8:34:04 AM
 Acq. Time: 8:34:04 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.53 min
 Area: 9.67e+003 counts
 Height: 23315.791 cps
 Start Time: 5.45 min
 End Time: 5.79 min



Sample Name: WXX100105-250CV Sample ID: 11187 File: EXS01060070.wif
 Peak Name: "tri(n-o-ethyl) phosphate" Mass(es): 160.046.0 and

Comment: "LCMSXP_C" Annotation: 1
 Sample Index: 1
 Sample Name: WXX100105-250CV
 Concentration: 500 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 8:34:04 AM
 Acq. Time: 8:34:04 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.30e+003 counts
 Height: 265496.777 cps
 Start Time: 10.8 min
 End Time: 11.3 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050072.wiff

Analysis Date: 06-JAN-10 09:05

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	73.3	73	
2,6-Diamino-4-nitrotoluene	100	91.9	92	
3,4-Dinitrotoluene	50	50.8	102	
3,5-Dinitroaniline	100	103	103	
TATB	100	108	108	
tris(o-cresyl) phosphate	100	100	100	

Recovery Limits:

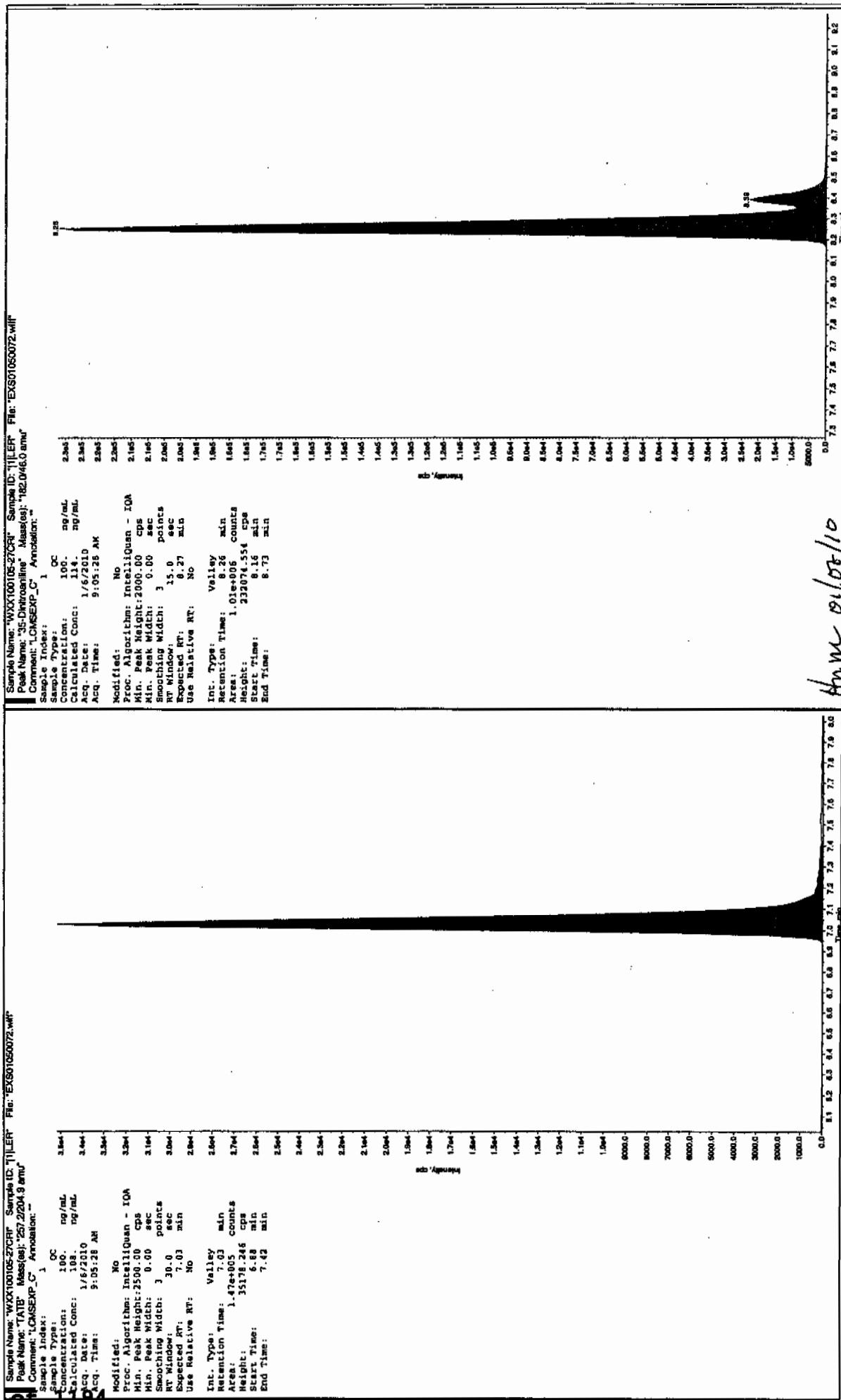
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

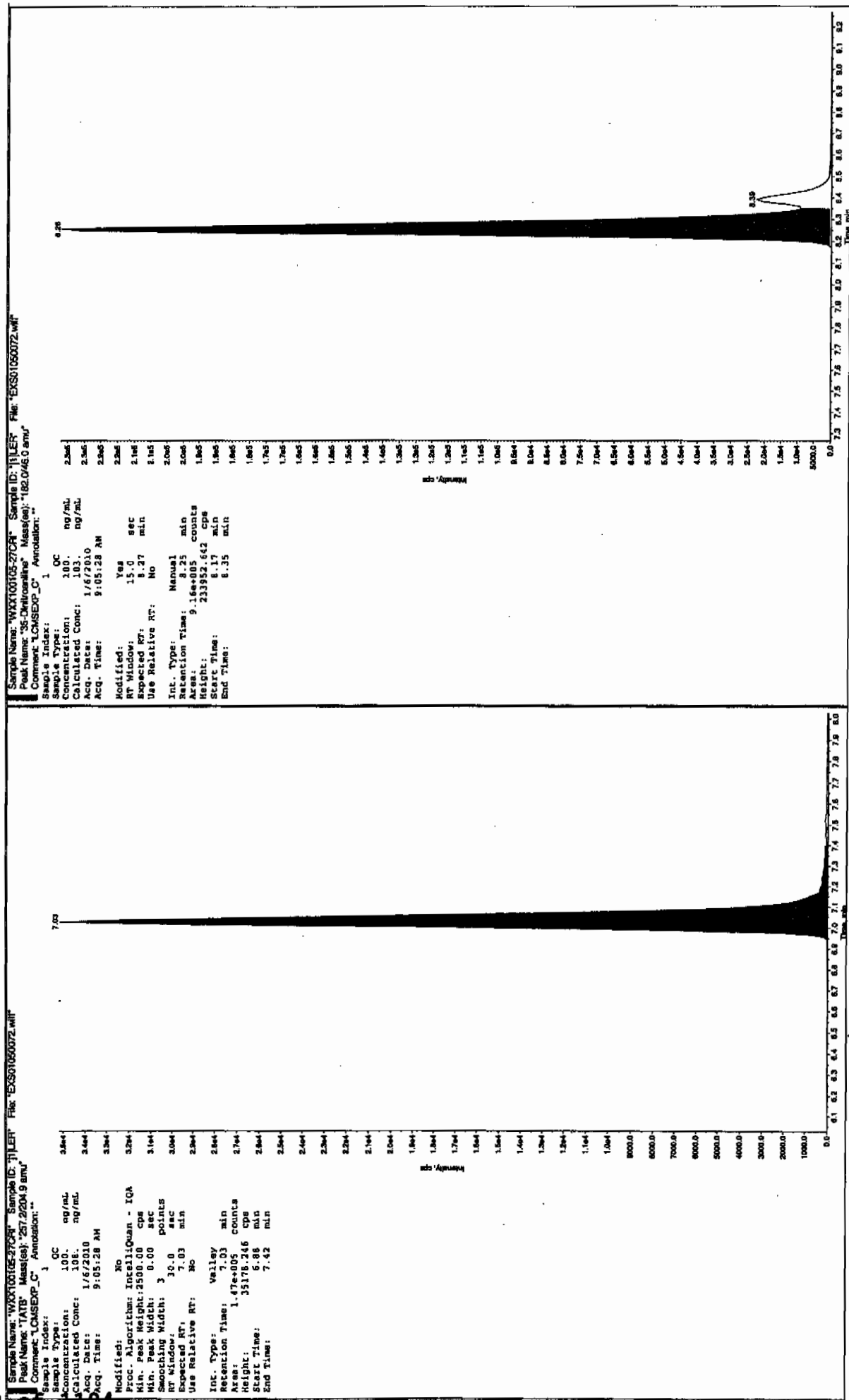
* Value outside of Recovery Limits

01/11/10
Laser
Parker

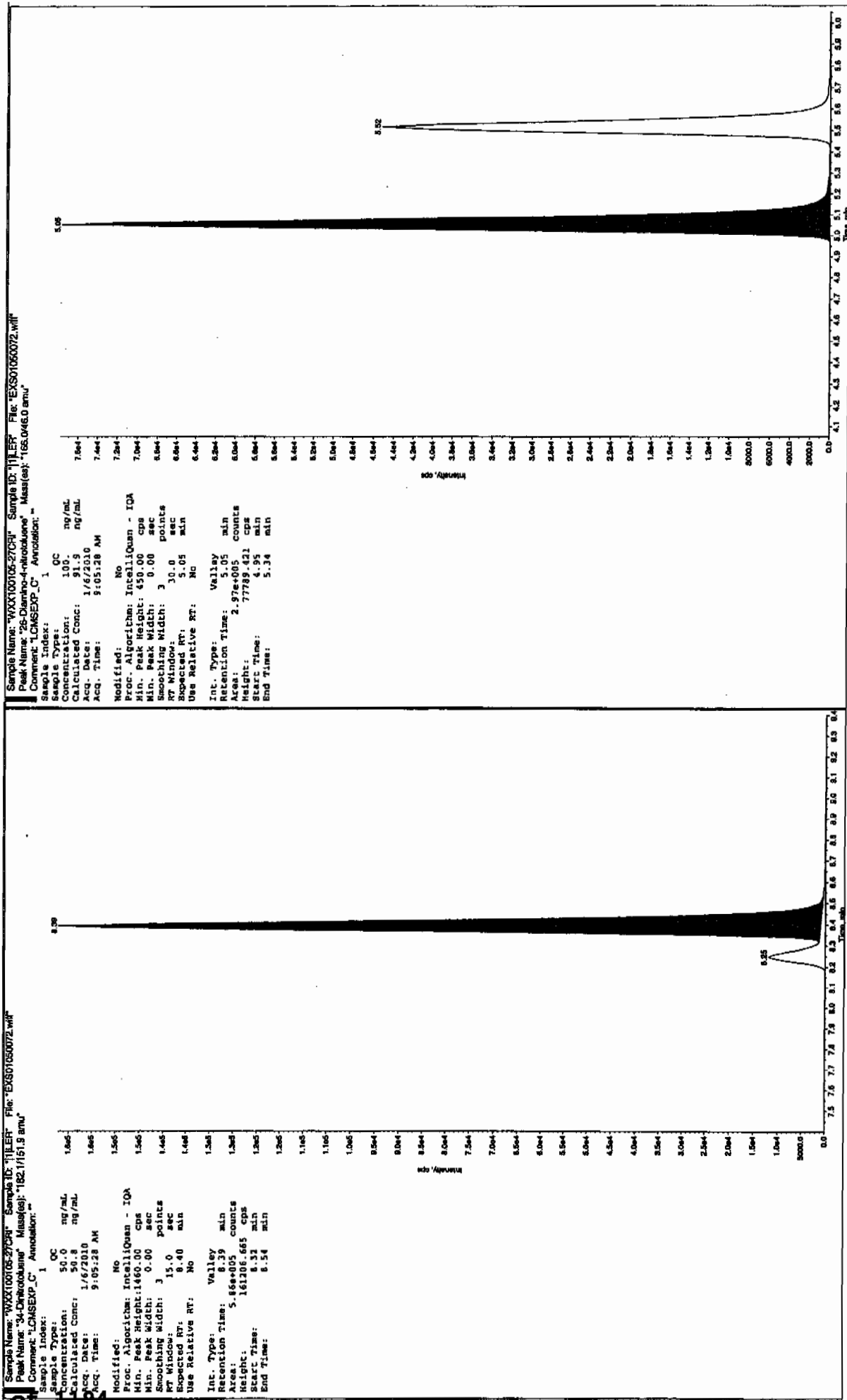


Amw 01/08/10

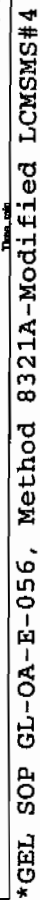
2022/10/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050083.wiff

Analysis Date: 06-JAN-10 11:58

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	486	97	
TATB	500	566	113	
2,4-Diamino-6-nitrotoluene	500	431	86	
2,6-Diamino-4-nitrotoluene	500	427	85	
3,4-Dinitrotoluene	250	238	95	
3,5-Dinitroaniline	500	535	107	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

01/11/10
D. J. J. J.

Sample Name: "WXX100105-260CV" Sample ID: "111ER" File: "EXS01060083.wif"

Peak Name: "TA1B" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 566. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 11:58:13 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.0 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 7.03 min

Use Relative RT: No

Int. Type: Valley

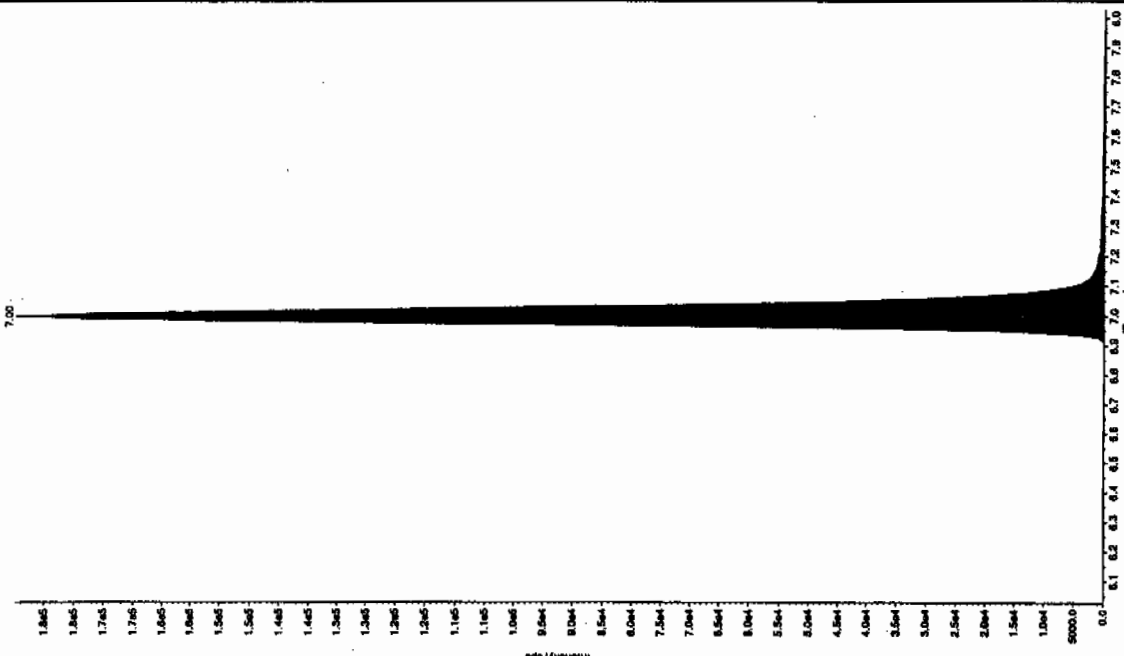
Retention Time: 7.00 min

Area: 7.72e+005 counts

Height: 184803.560 cps

Start Time: 6.88 min

End Time: 7.42 min



Sample Name: "WXX100105-260CV" Sample ID: "111ER" File: "EXS01060083.wif"

Peak Name: "35-Dinitroanthracene" Mass(es): "182.04/6.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 594. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 11:58:13 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.0 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.27 min

Use Relative RT: No

Int. Type: Valley

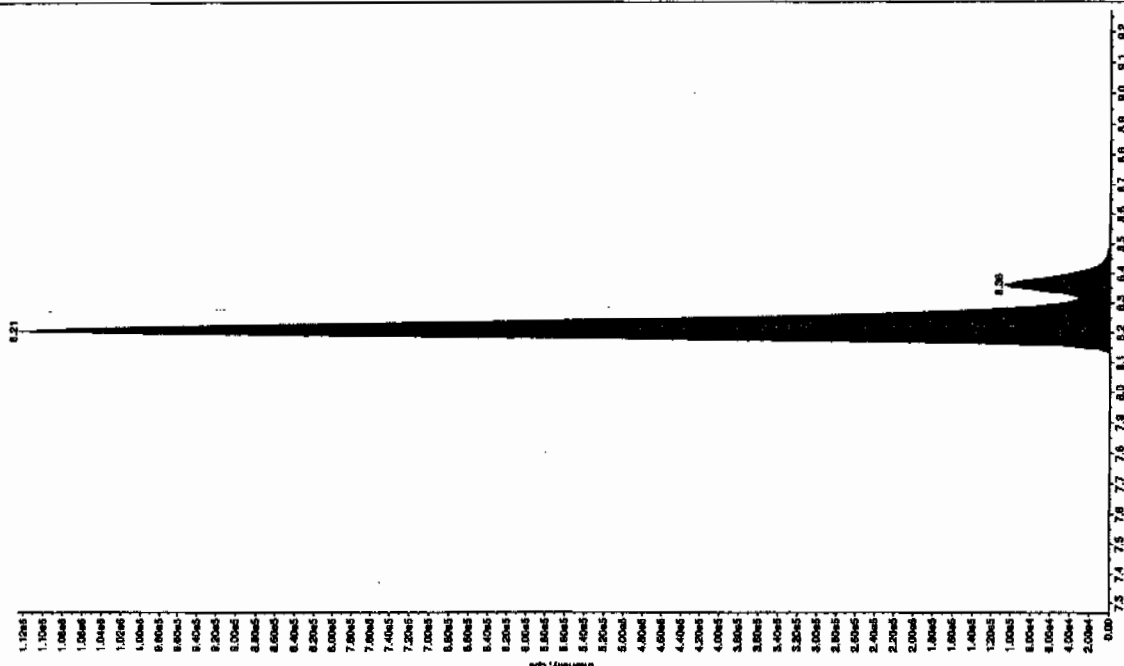
Retention Time: 8.21 min

Area: 4.98e+006 counts

Height: 112575.684 cps

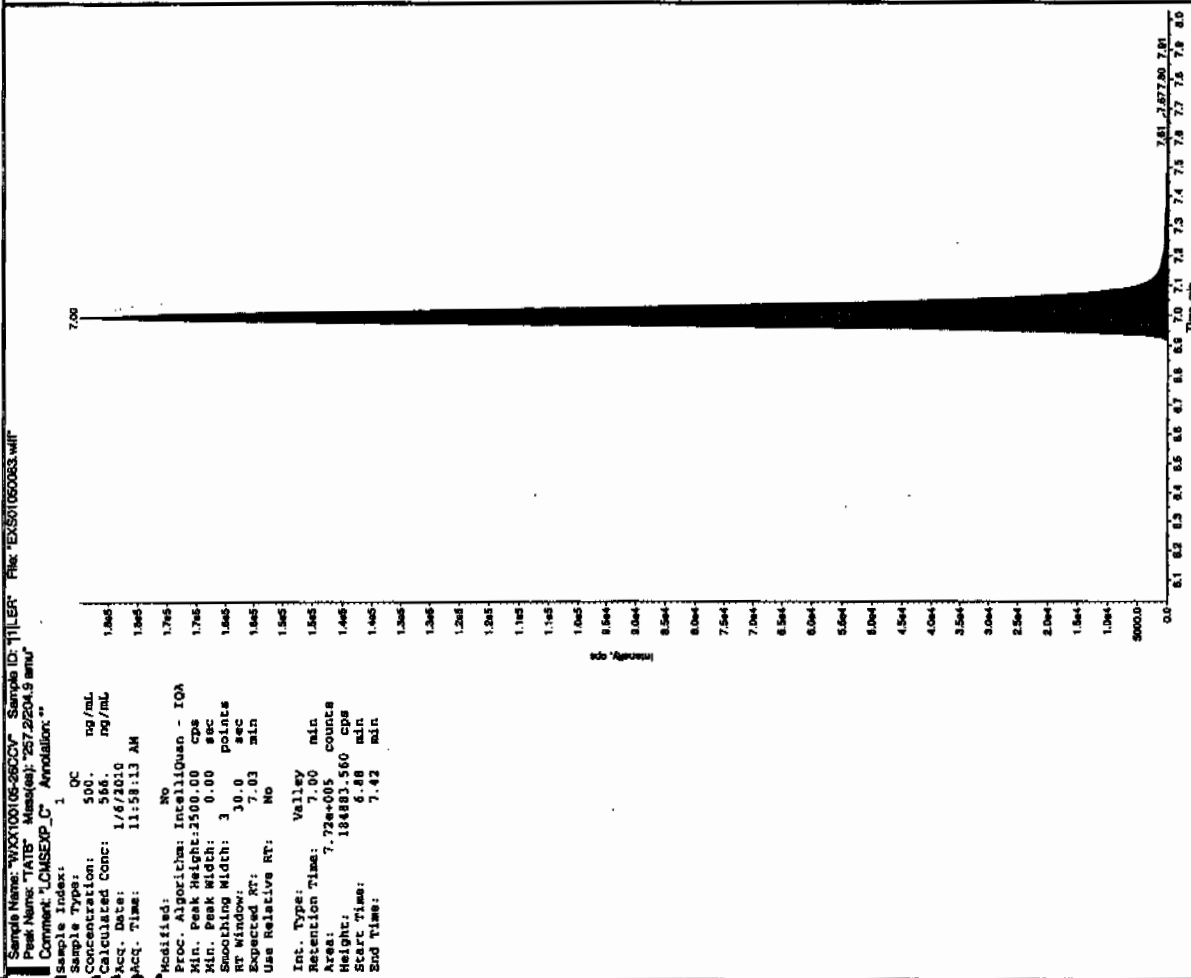
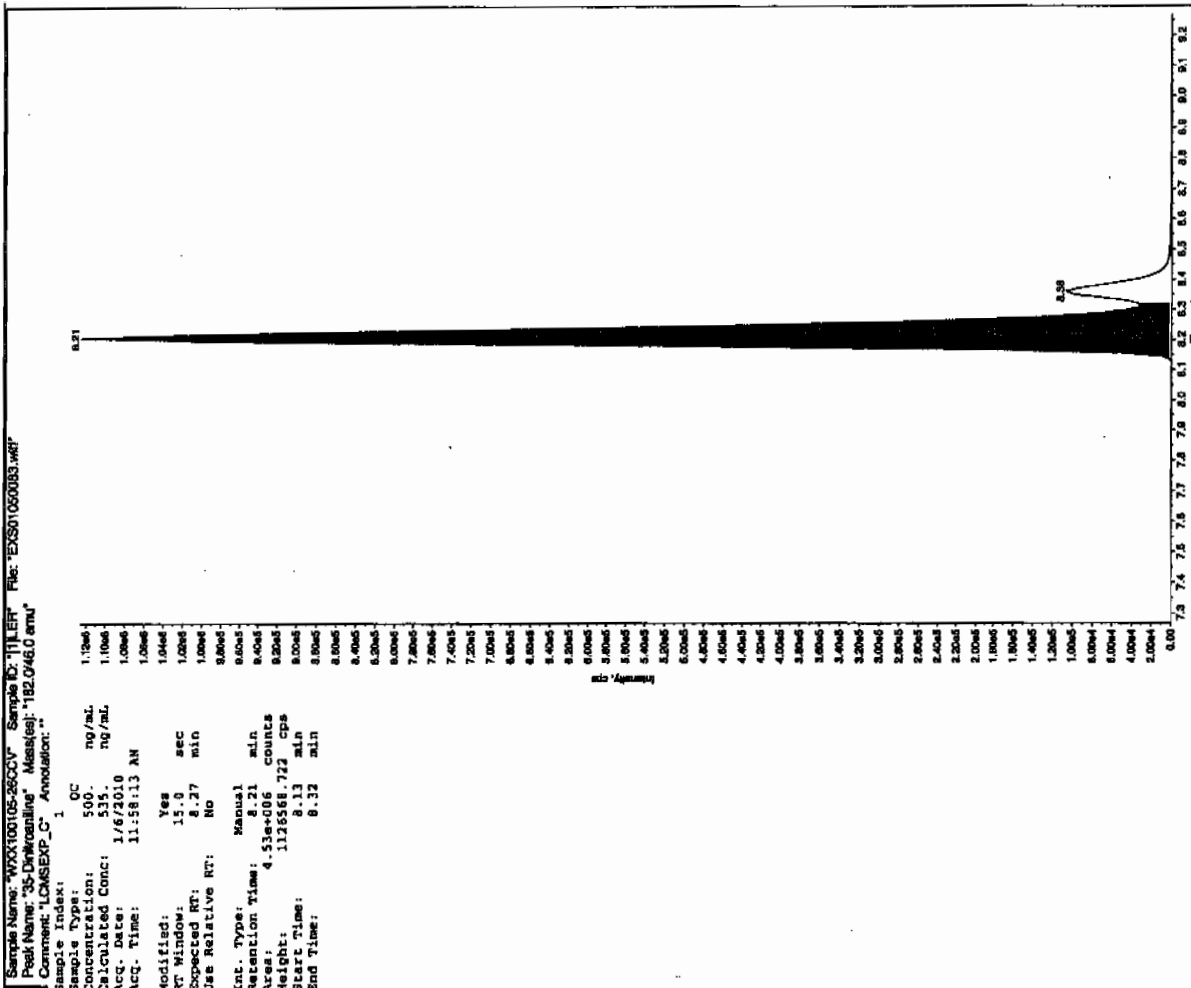
Start Time: 8.11 min

End Time: 8.71 min

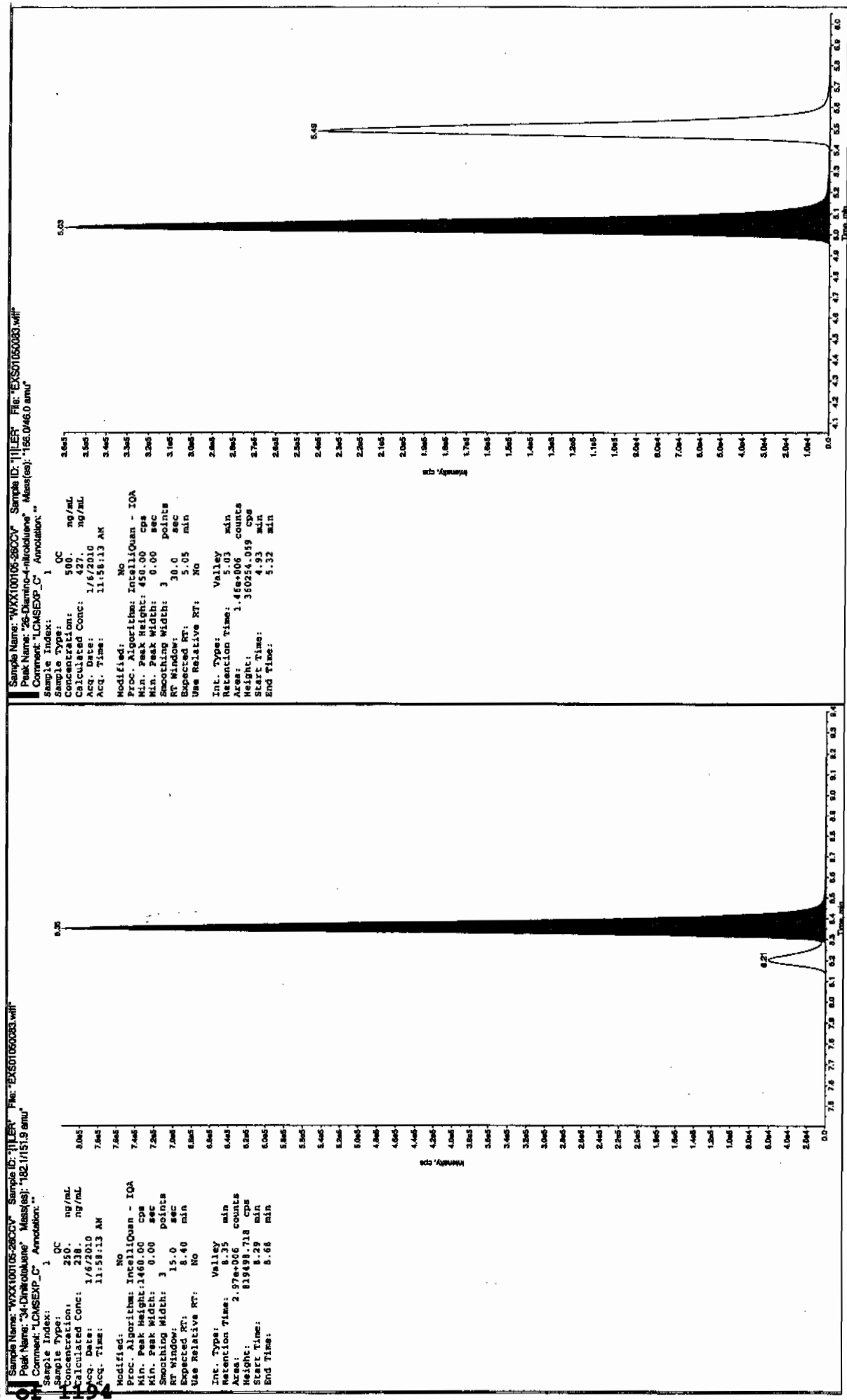


Hum 01/07/10

01/11/11
2442



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100105-280CV" Sample ID: "111EP" File: "EX501050083.wif"
 Peak Name: "24-Diamino-6-phenylidene" Mass(es): "168.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 431. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 11:58:13 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 350.00 cps

Min. Peak Width: 3.00 sec

Smoothing Width: 30.0 points

RT Window: 30.0 sec

Expected RT: 5.32 min

Use Relative RT: No

Int. Type: Valley

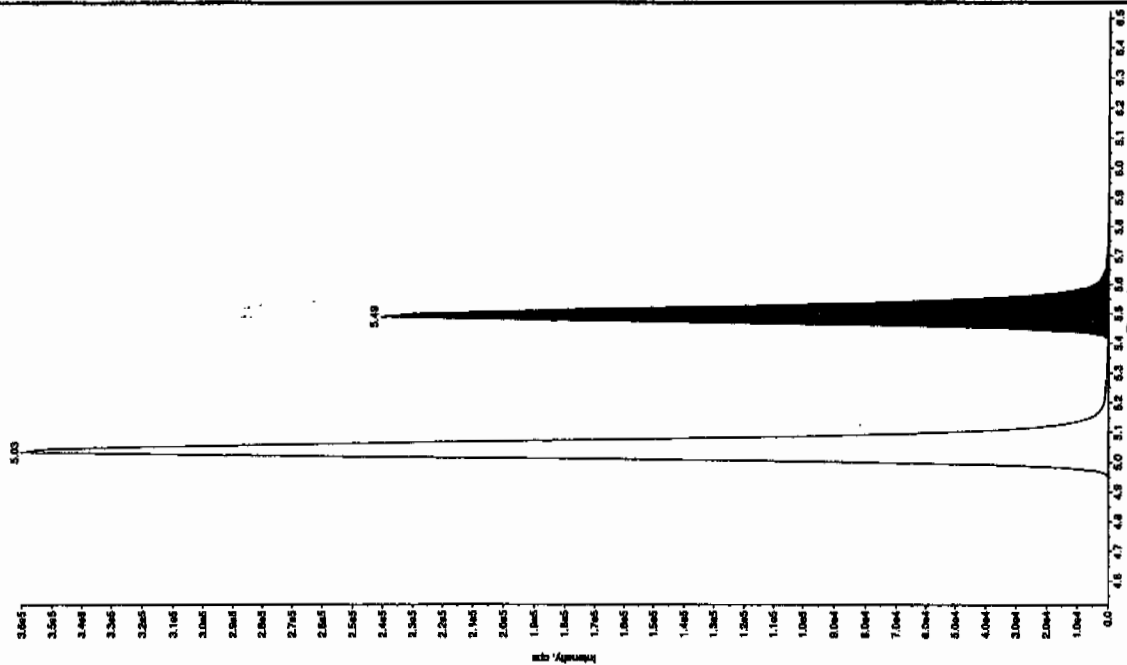
Retention Time: 5.49 min

Area: 9.67e+005 counts

Height: 240684.875 cps

Start Time: 5.39 min

End Time: 5.80 min



Sample Name: "WXX100105-280CV" Sample ID: "111EP" File: "EX501050083.wif"

Peak Name: "bis(cresyl) phosphate" Mass(es): "368.1910 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 486. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 11:58:13 AM

Modified: Yes

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 1.00e4 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 30.0 points

RT Window: 30.0 sec

Expected RT: 11.0 min

Use Relative RT: No

Int. Type: Valley

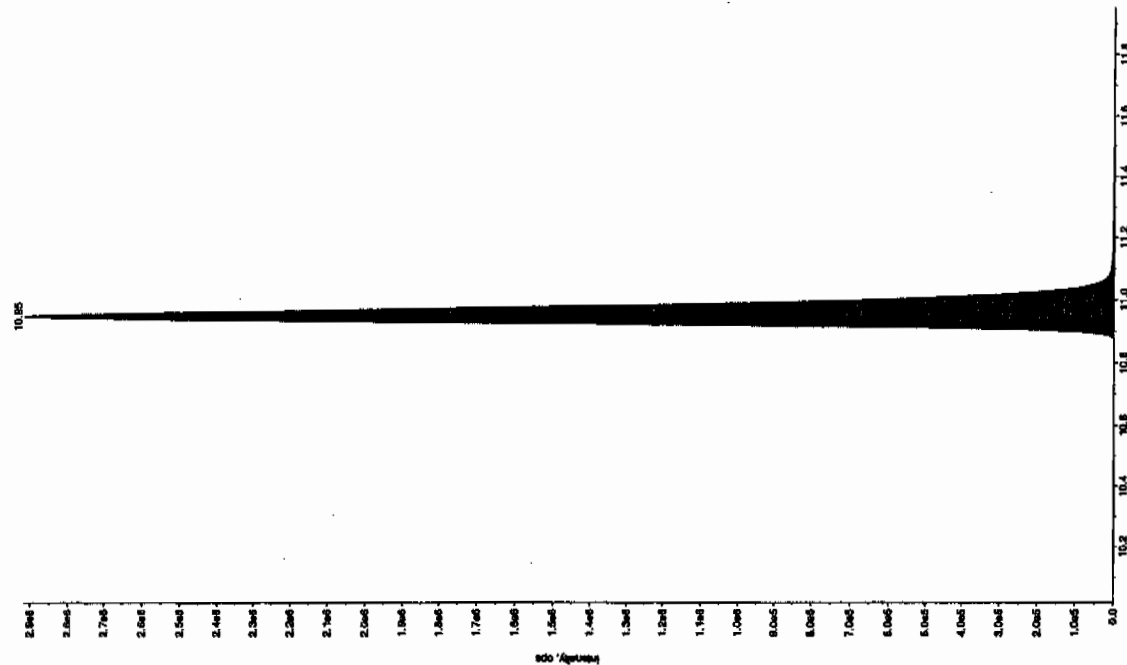
Retention Time: 11.0 min

Area: 1.10e+007 counts

Height: 2916043.701 cps

Start Time: 10.9 min

End Time: 11.3 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050085.wiff

Analysis Date: 06-JAN-10 12:29

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	83.3	83	
2,6-Diamino-4-nitrotoluene	100	88	88	
3,4-Dinitrotoluene	50	51.5	103	
3,5-Dinitroaniline	100	113	113	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	104	104	

Recovery Limits:

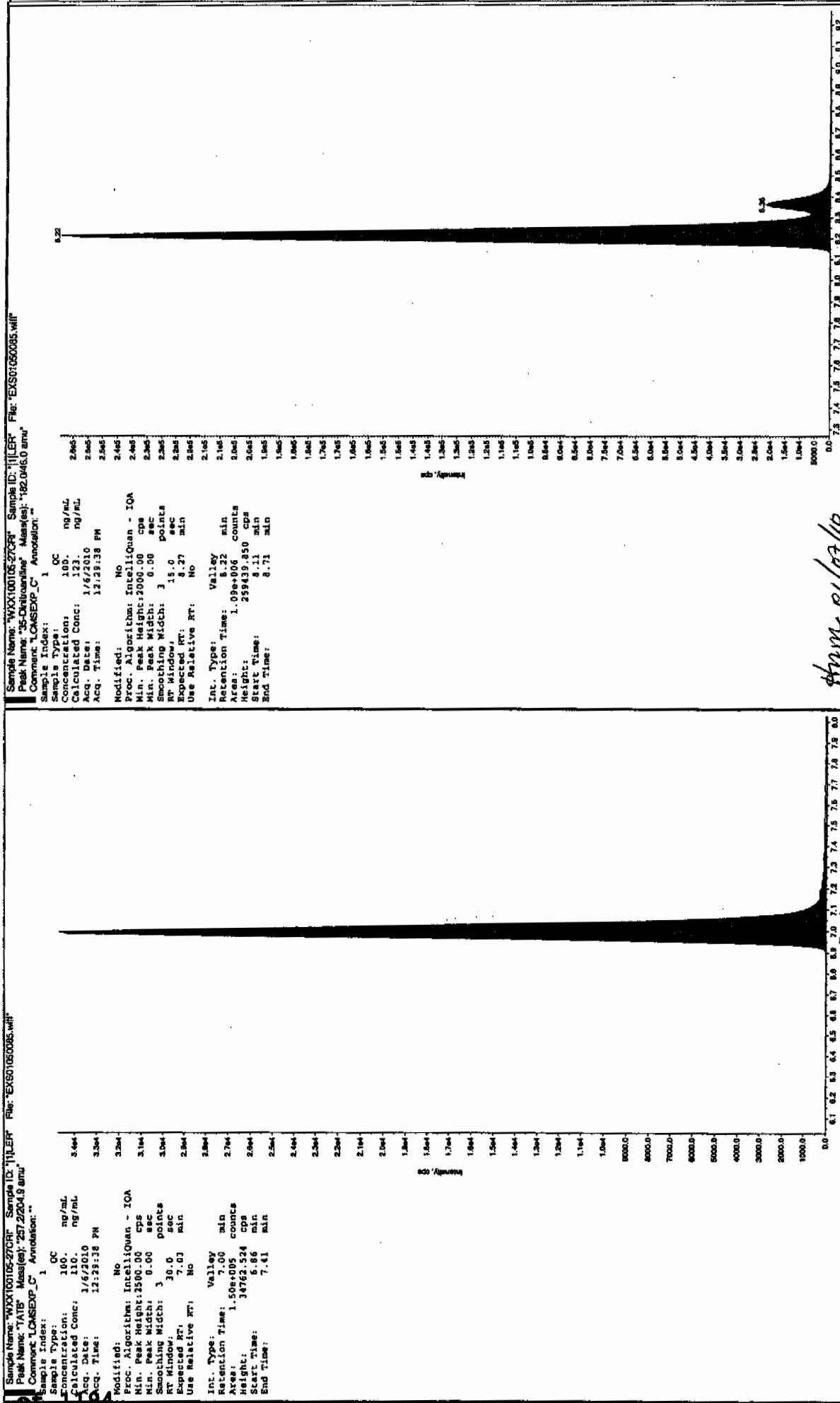
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

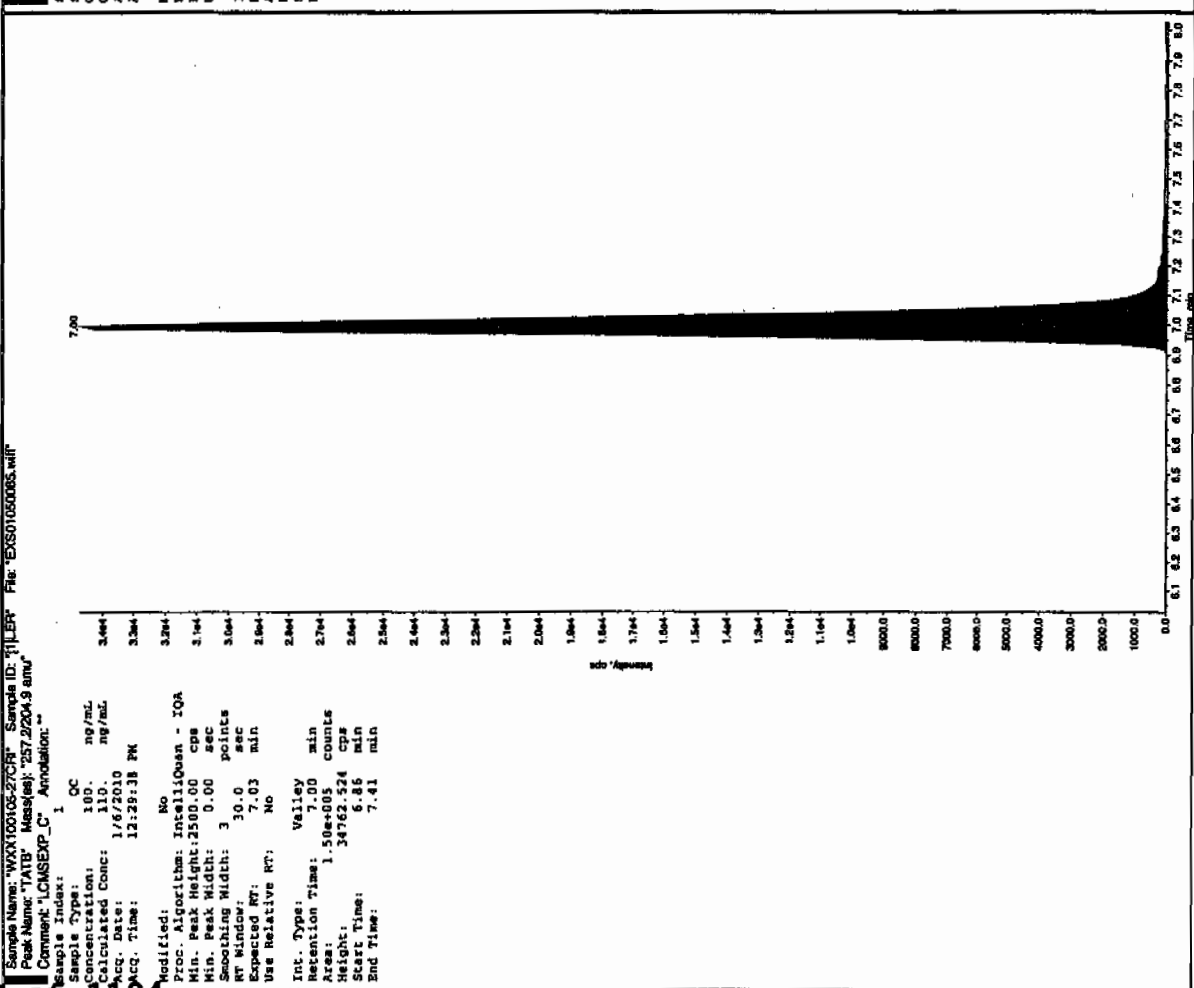
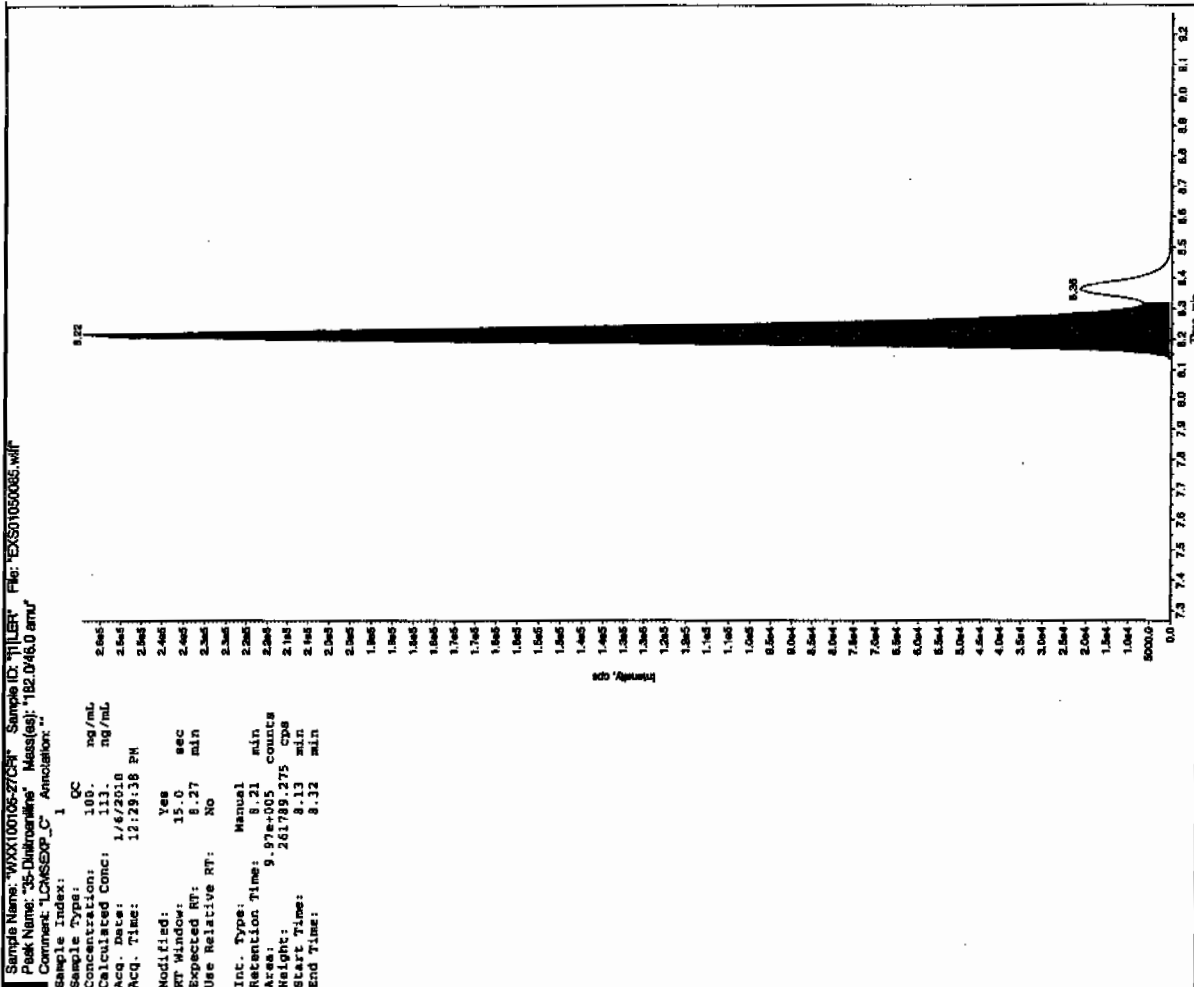
* Value outside of Recovery Limits

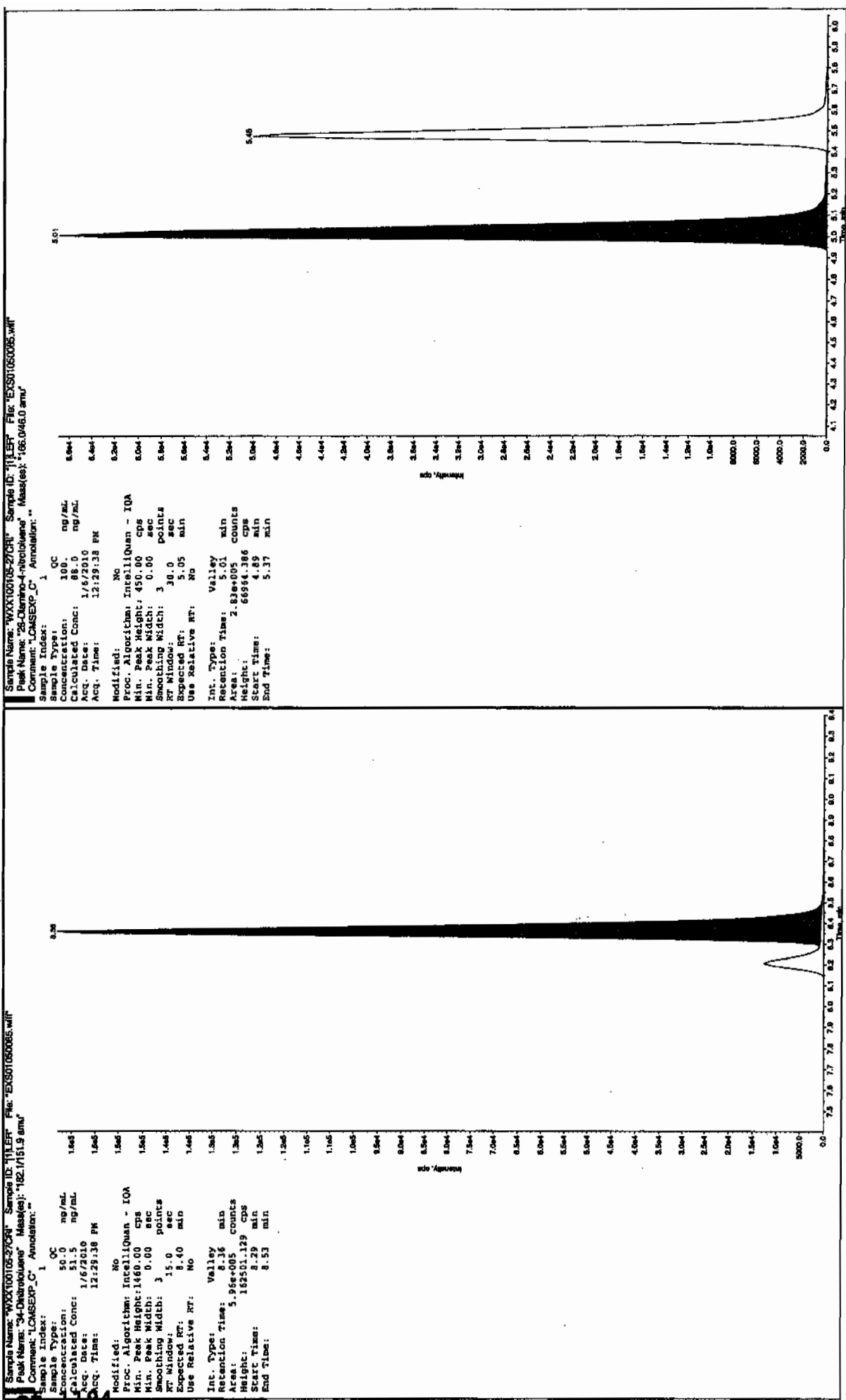
1/17/10
J. K. S. J. K. S.



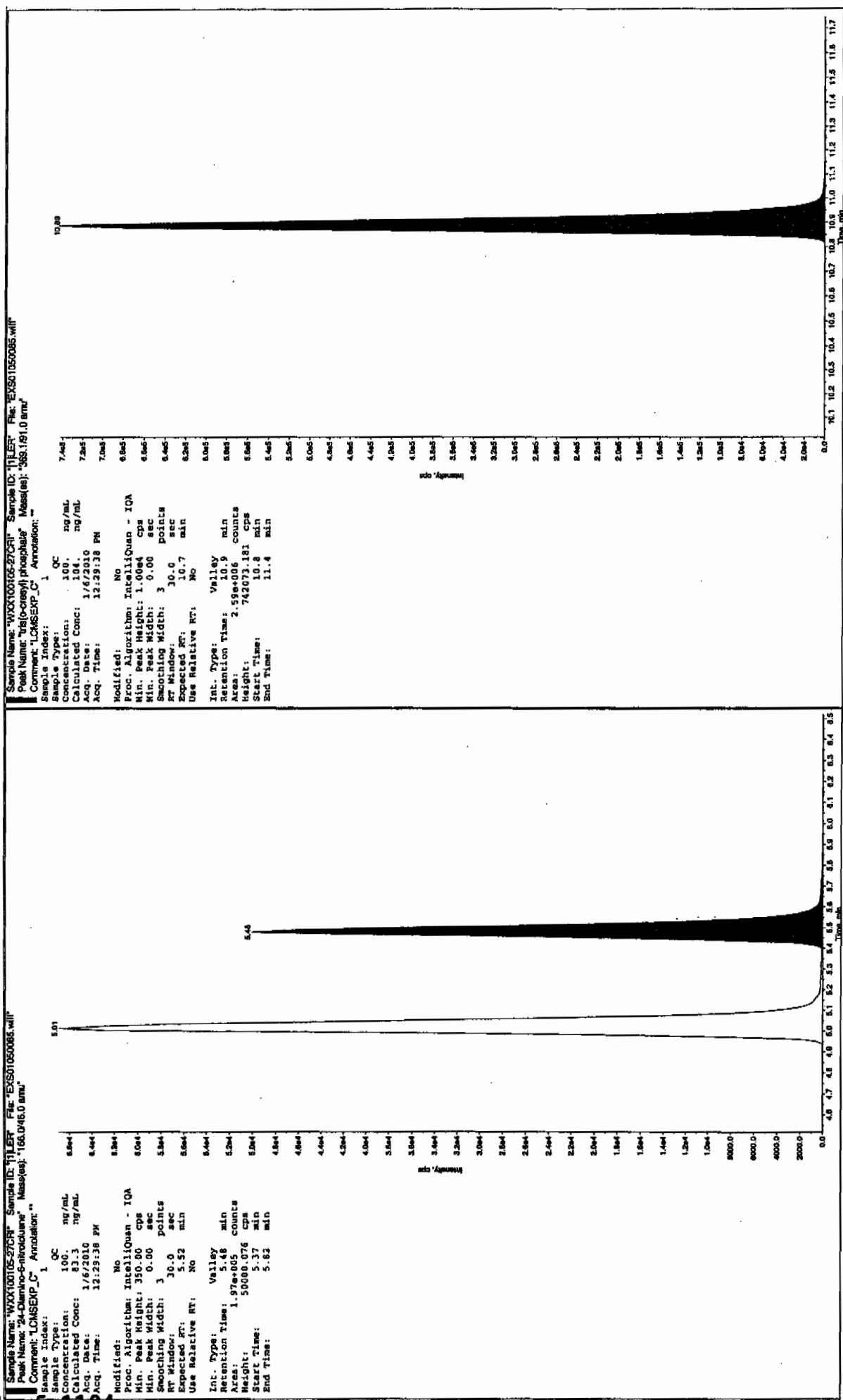
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

all 117110
 117110





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050095.wiff

Analysis Date: 06-JAN-10 15:06

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	415	83	
2,6-Diamino-4-nitrotoluene	500	419	84	
3,4-Dinitrotoluene	250	223	89	
3,5-Dinitroaniline	500	496	99	
TATB	500	547	109	
tris(o-cresyl) phosphate	500	488	98	

Recovery Limits:

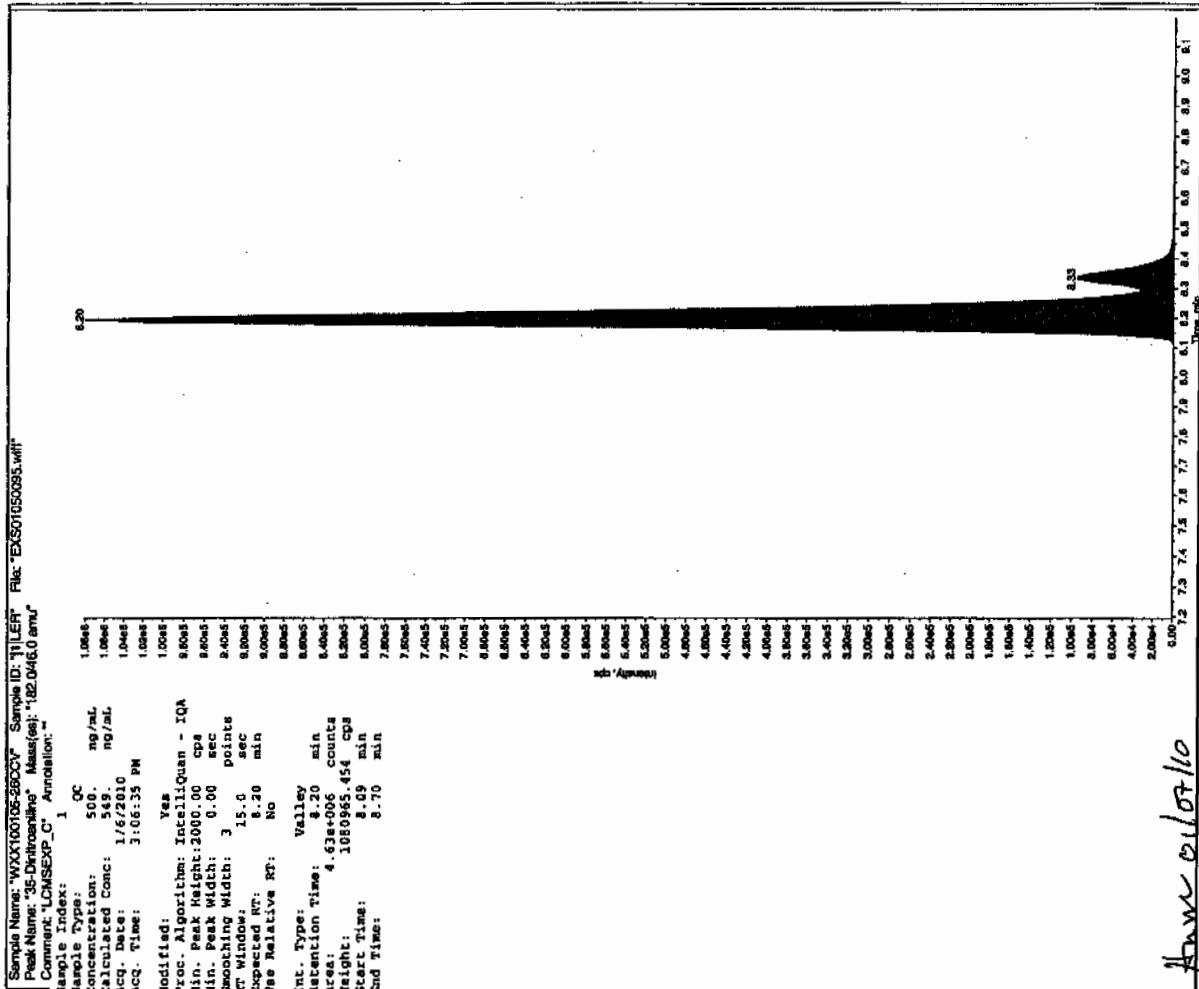
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

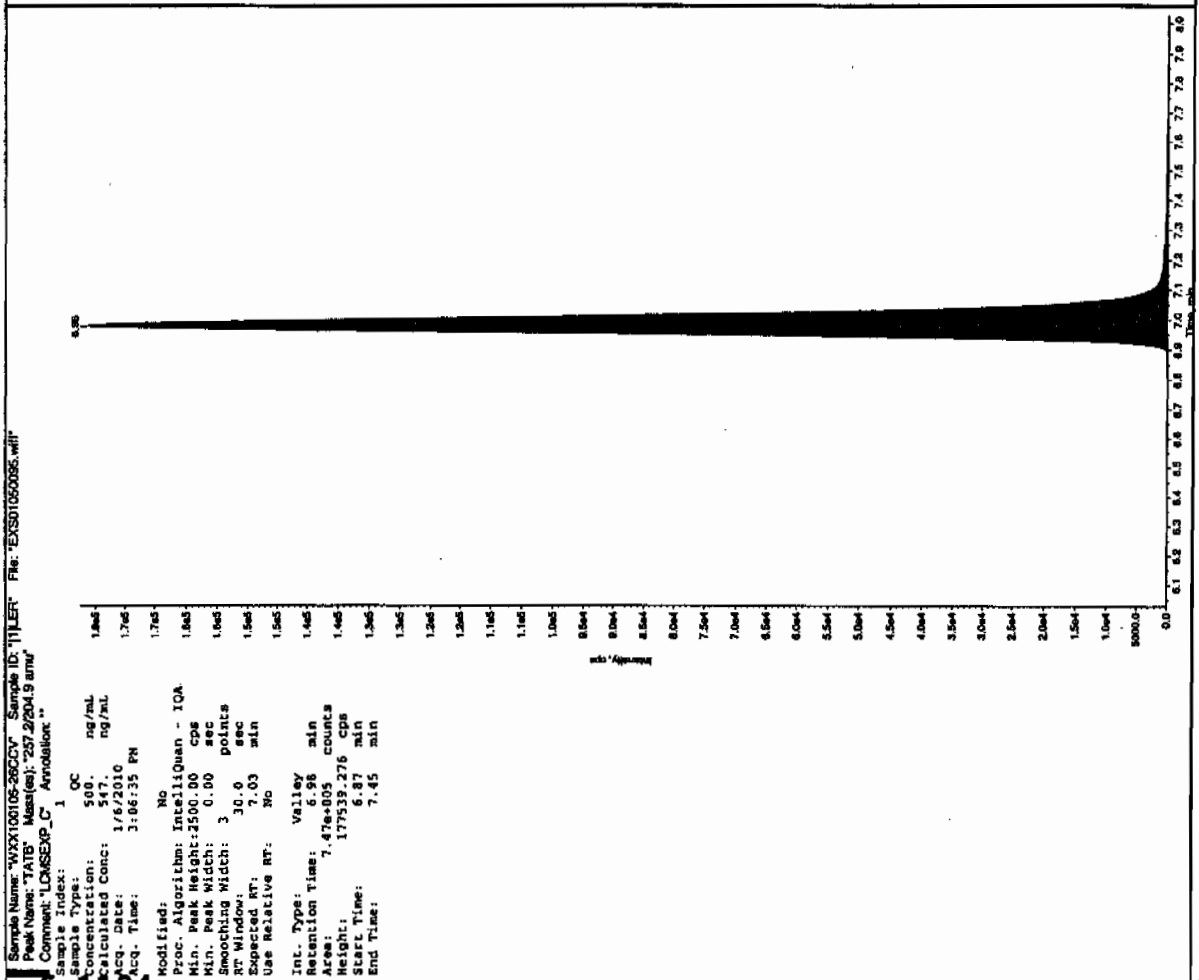
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before
1/17/10

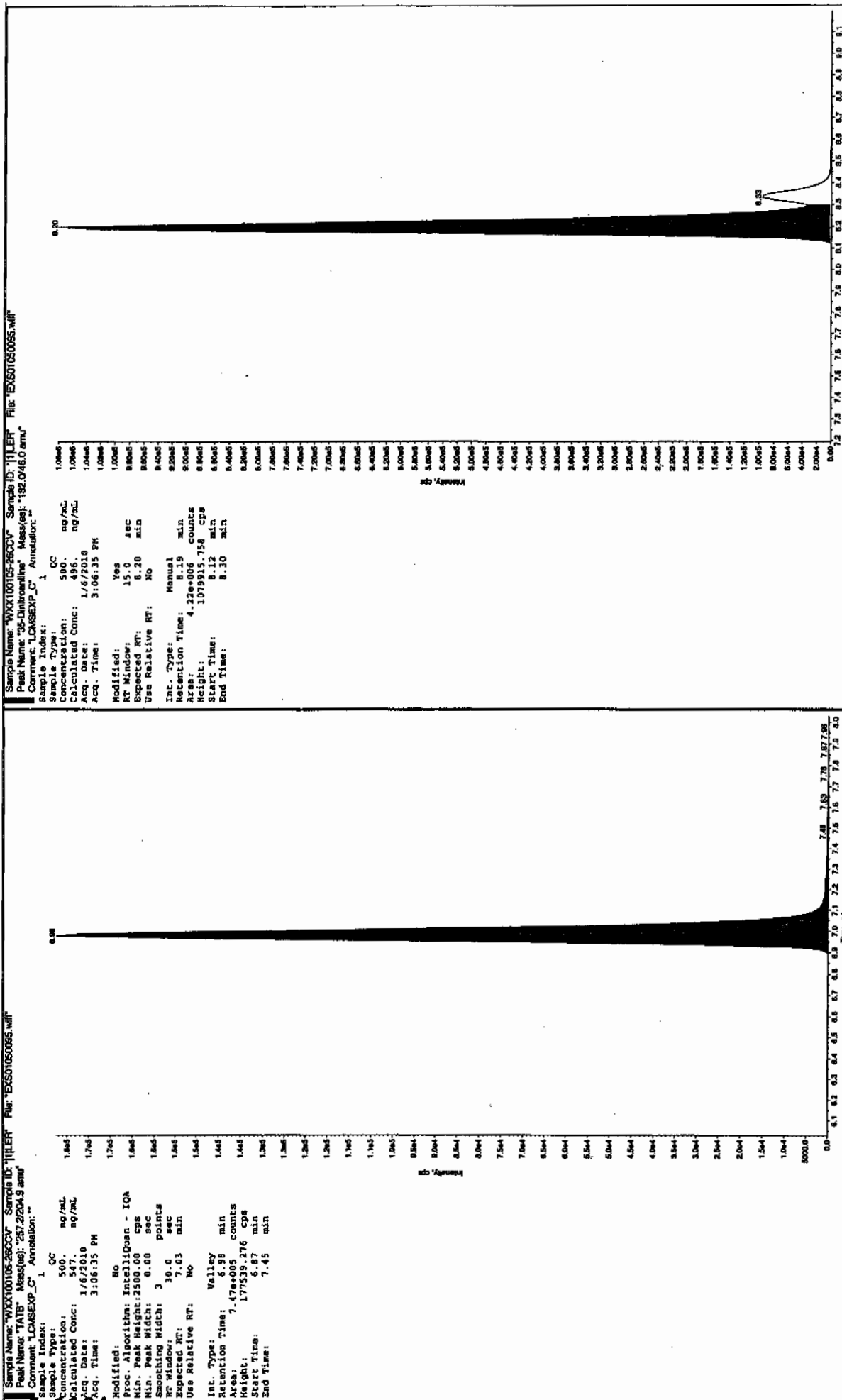


Answer 8/10/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

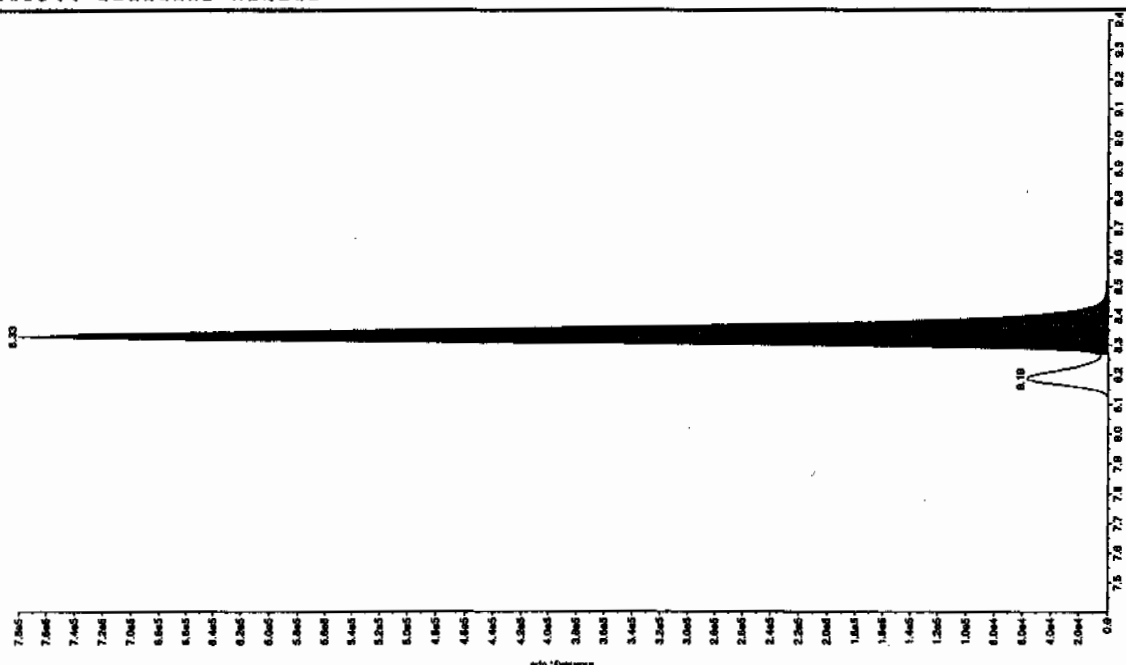
12/11/10
J. J. J.



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

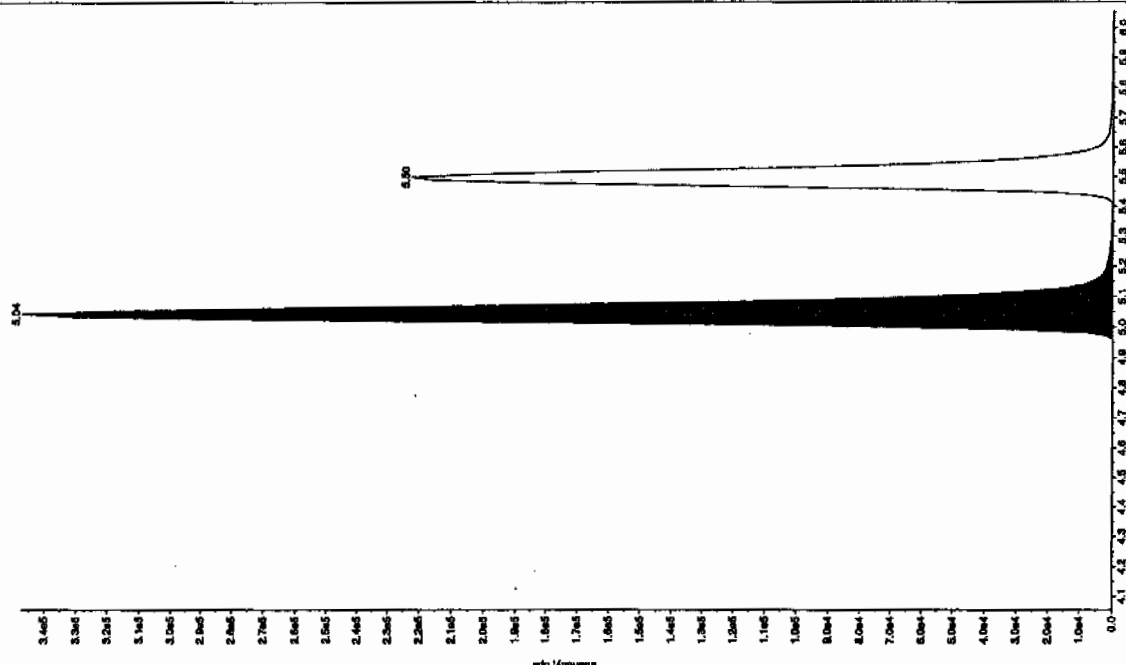
Sample Name: "WXX100105-2600V" Sample ID: "111111" File: "EXS01050095.wif"
 Peak Name: "34-Dihydrokukone" Mass(es): "182.14519 amu"
 Comment: "LCMS EXP C" Annotation: ""

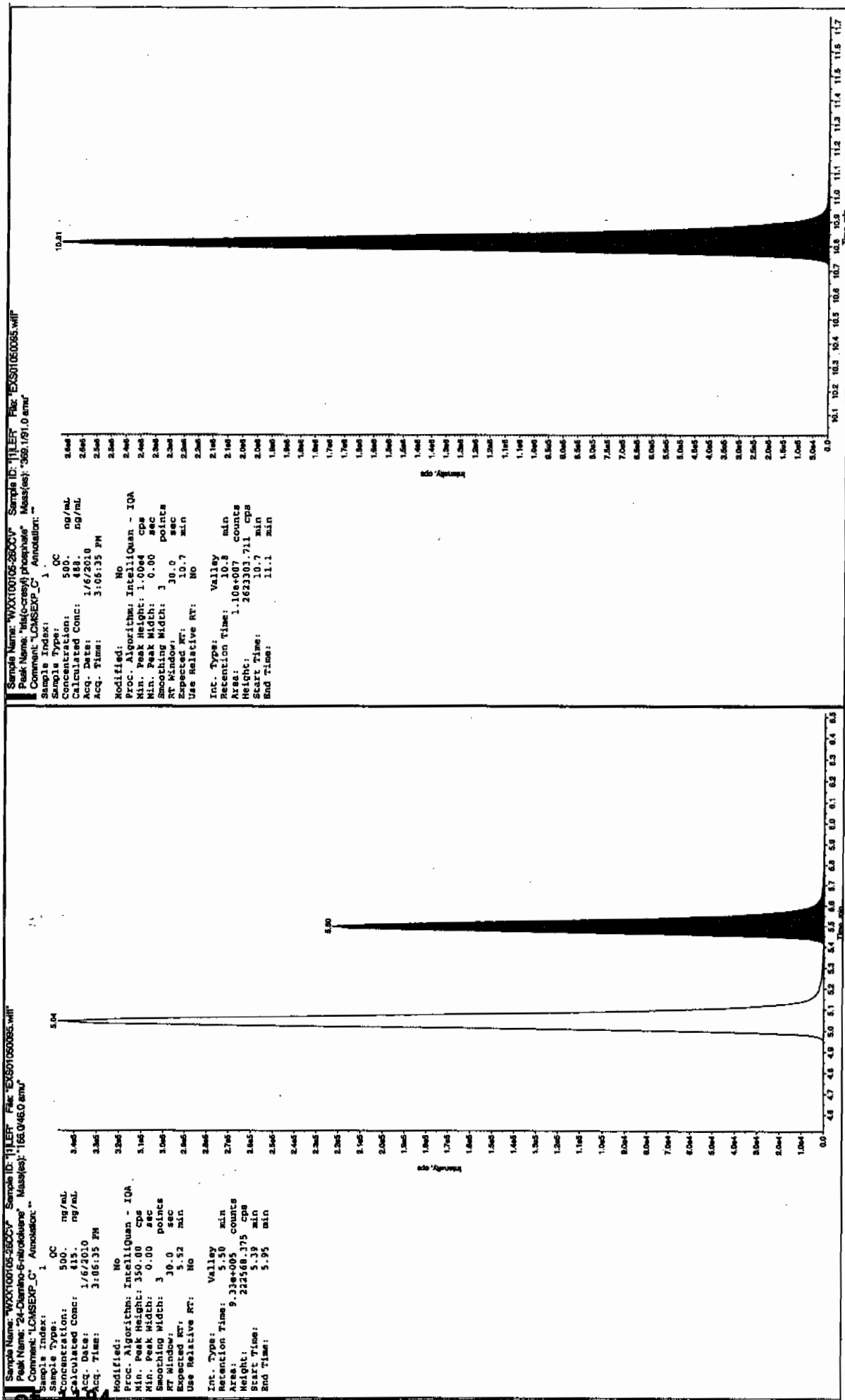
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 233. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:06:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 150.00 cps
 Min. Peak Width: 3.00 sec
 Retention Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.78e+006 counts
 Height: 779922.485 cps
 Start Time: 8.27 min
 End Time: 8.64 min



Sample Name: "WXX100105-2600V" Sample ID: "111111" File: "EXS01050095.wif"
 Peak Name: "26-Diamino-4-ribitoluene" Mass(es): "166.04610 amu"
 Comment: "LCMS EXP C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 419. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 3:06:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 sec
 Retention Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 1.44e+006 counts
 Height: 347504.455 cps
 Start Time: 4.94 min
 End Time: 5.32 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050097.wiff

Analysis Date: 06-JAN-10 15:44

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	85.8	86	
2,6-Diamino-4-nitrotoluene	100	94.4	94	
3,4-Dinitrotoluene	50	50.6	101	
3,5-Dinitroaniline	100	111	111	
TATB	100	113	113	
tris(o-cresyl) phosphate	100	107	107	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

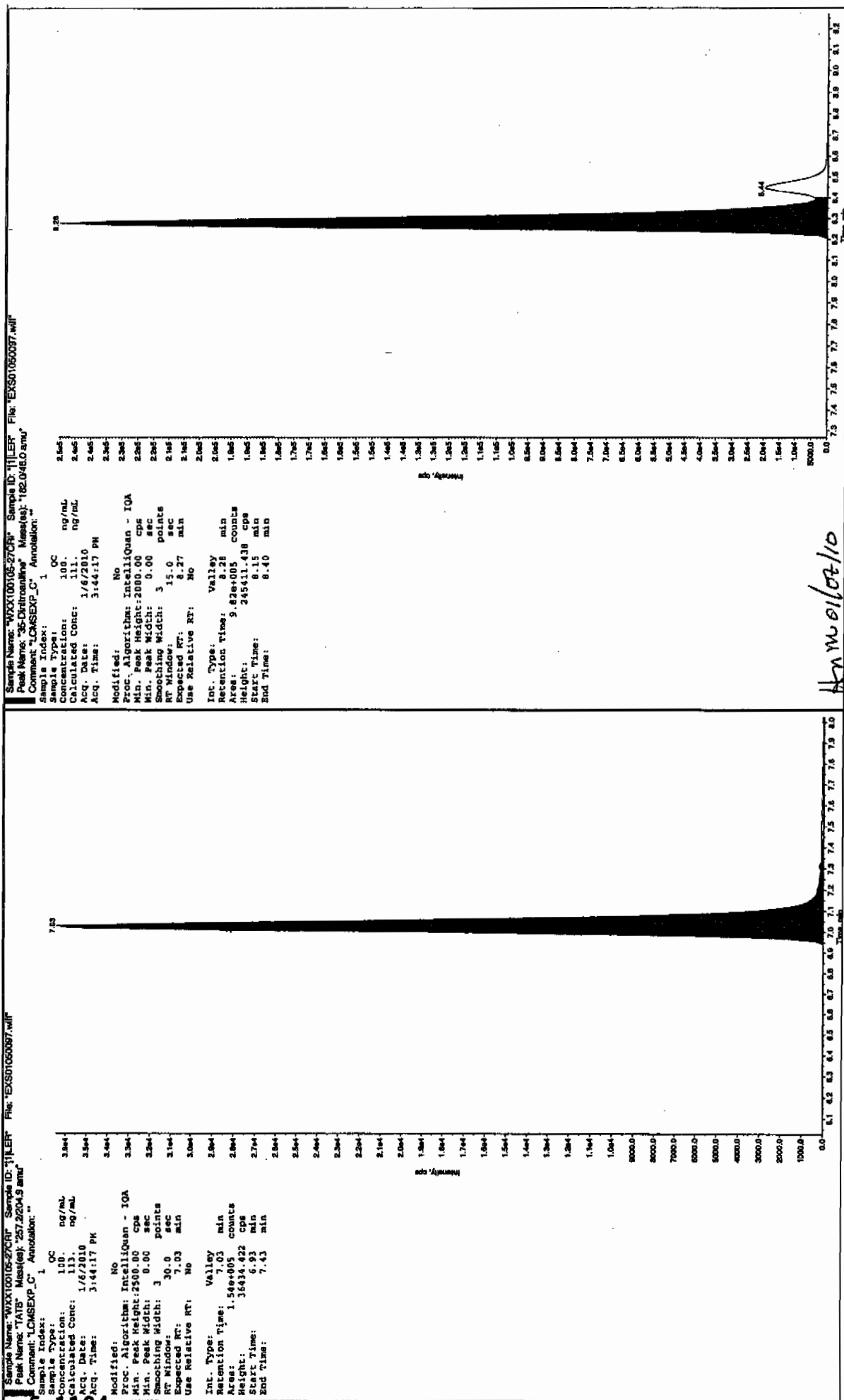
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

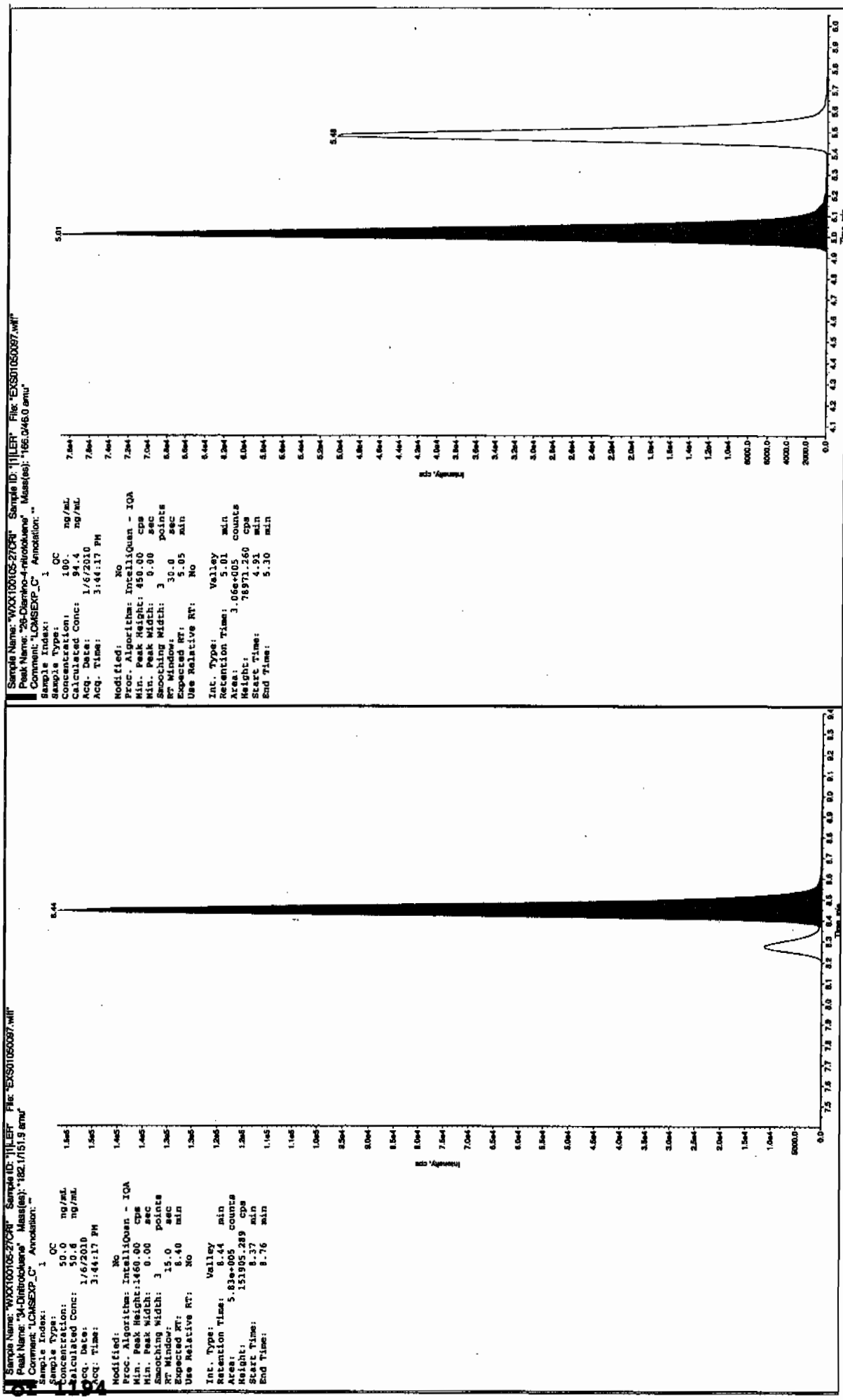
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

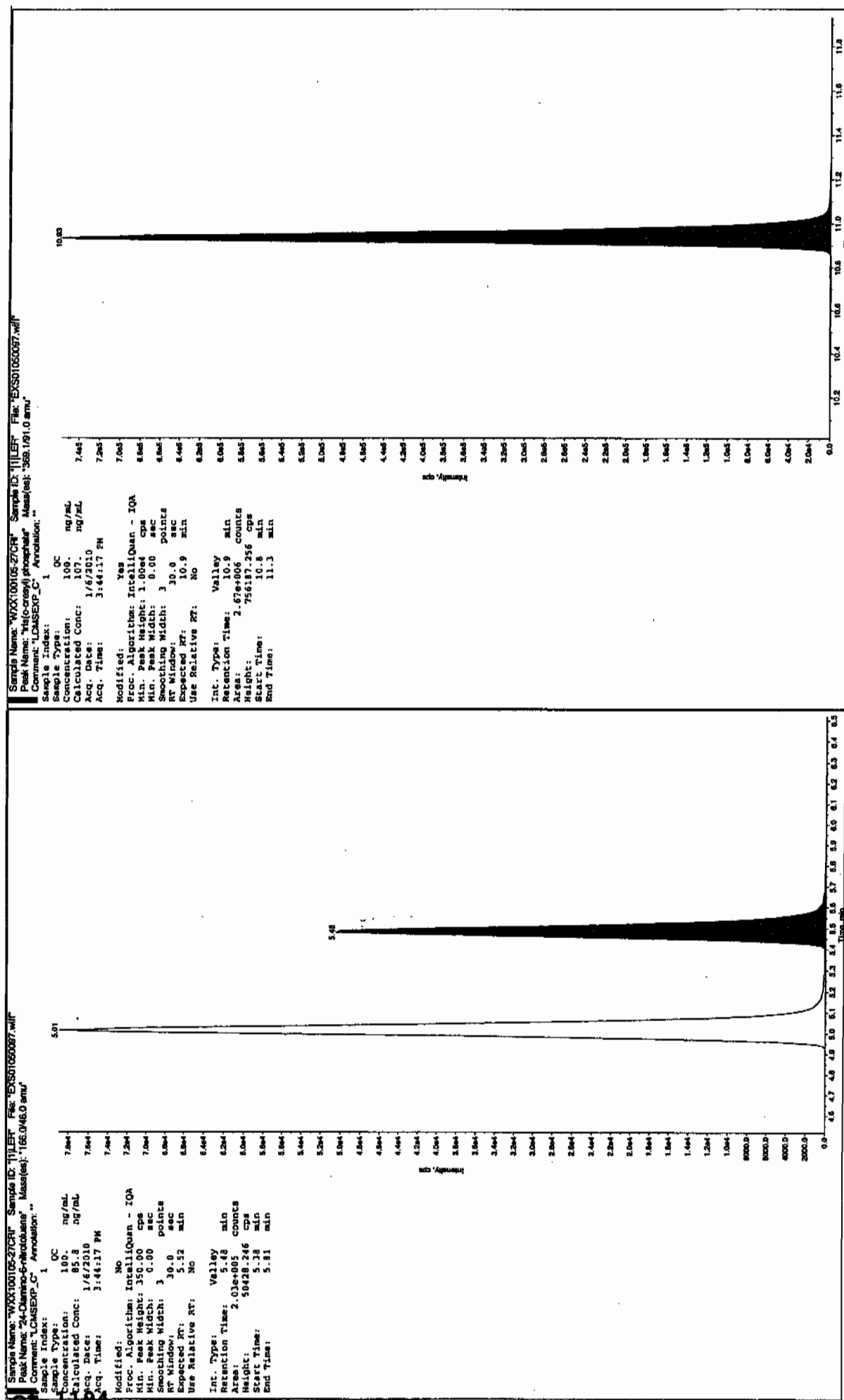
8/22/10



8/22/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050108.wiff

Analysis Date: 06-JAN-10 18:37

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	414	83	
2,6-Diamino-4-nitrotoluene	500	396	79	
3,4-Dinitrotoluene	250	224	90	
3,5-Dinitroaniline	500	496	99	
TATB	500	561	112	
tris(o-cresyl) phosphate	500	491	98	

Recovery Limits:

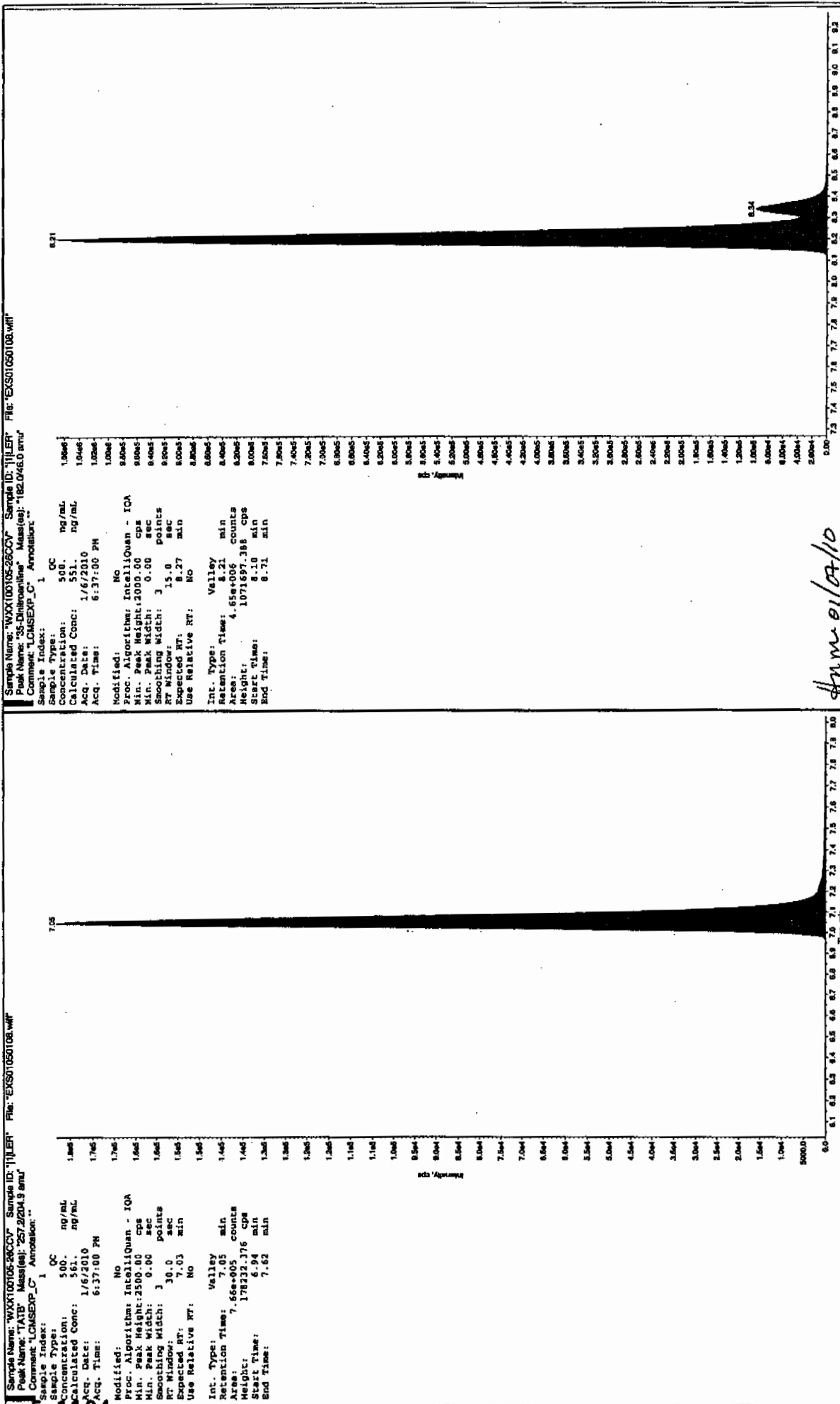
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

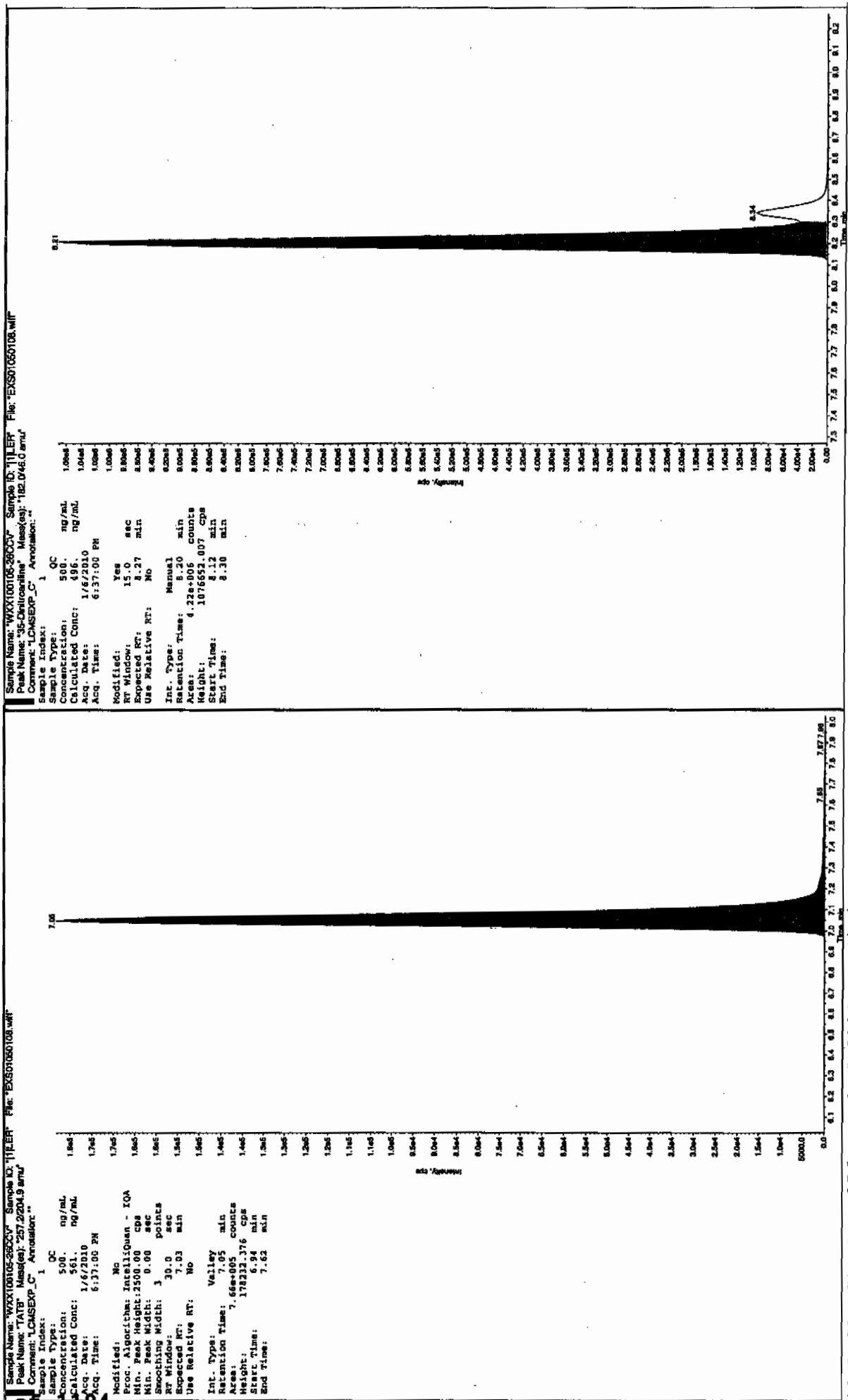
* Value outside of Recovery Limits

1/24/10
D. J. J. J.



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

OK
2/14/11



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100105-2620V" Sample ID: "111ER" File: "EX501050108.wif"
 Peak Name: "34-Ornithodorus" Mass(es): "182.17151 amu"

Comment: "LCMSDEP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 250. ng/mL

Calculated Conc: 224. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 6:37:00 PM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 1460.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.40 min

Use Relative RT: No

Int. Type: Valley

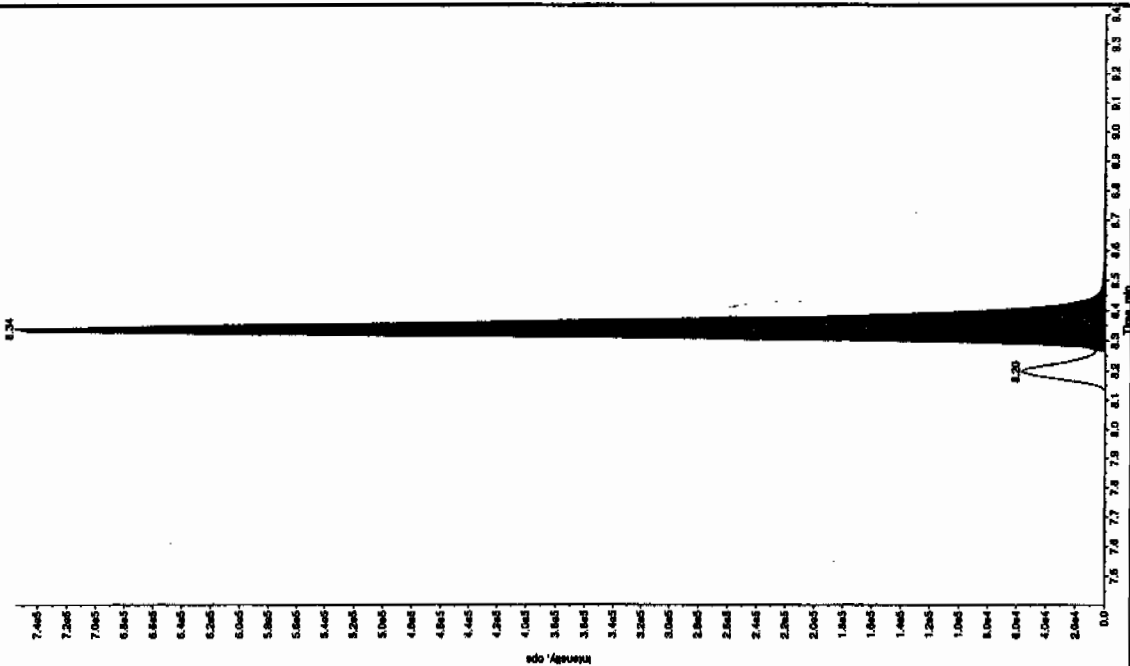
Retention Time: 8.34 min

Area: 2.80e+006 counts

Height: 754879.333 cps

Start Time: 8.27 min

End Time: 8.68 min



Sample Name: "WXX100105-2620V" Sample ID: "111ER" File: "EX501050108.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.04650 amu"

Comment: "LCMSDEP_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 396. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 6:37:00 PM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 5.05 min

Use Relative RT: No

Int. Type: Valley

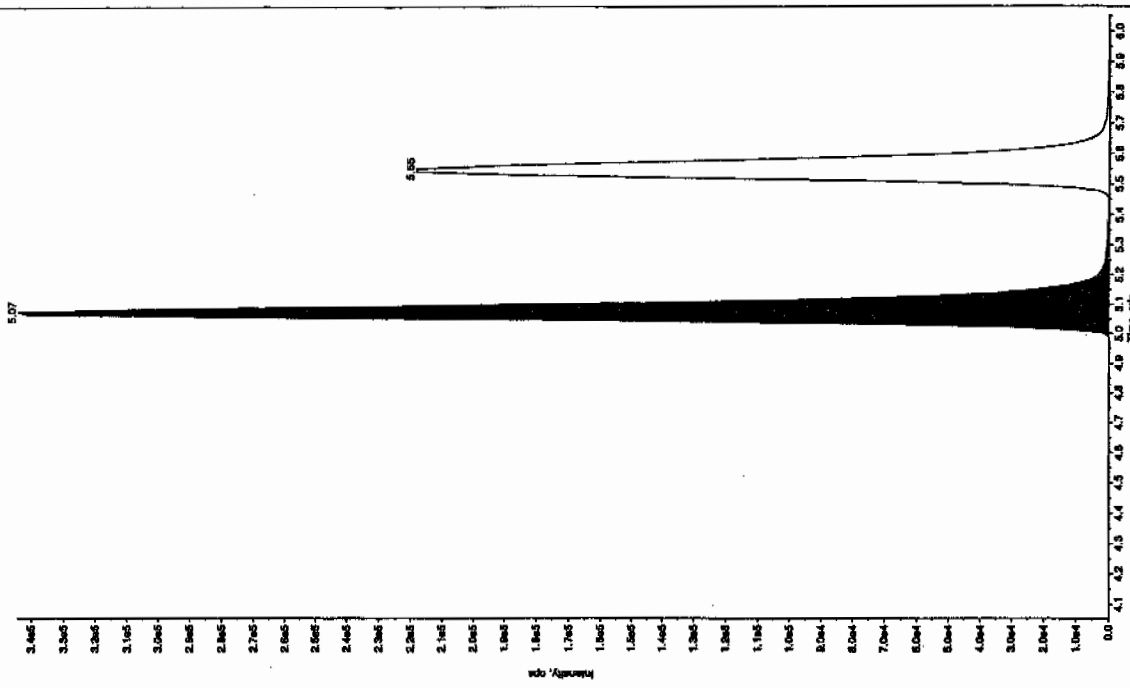
Retention Time: 5.07 min

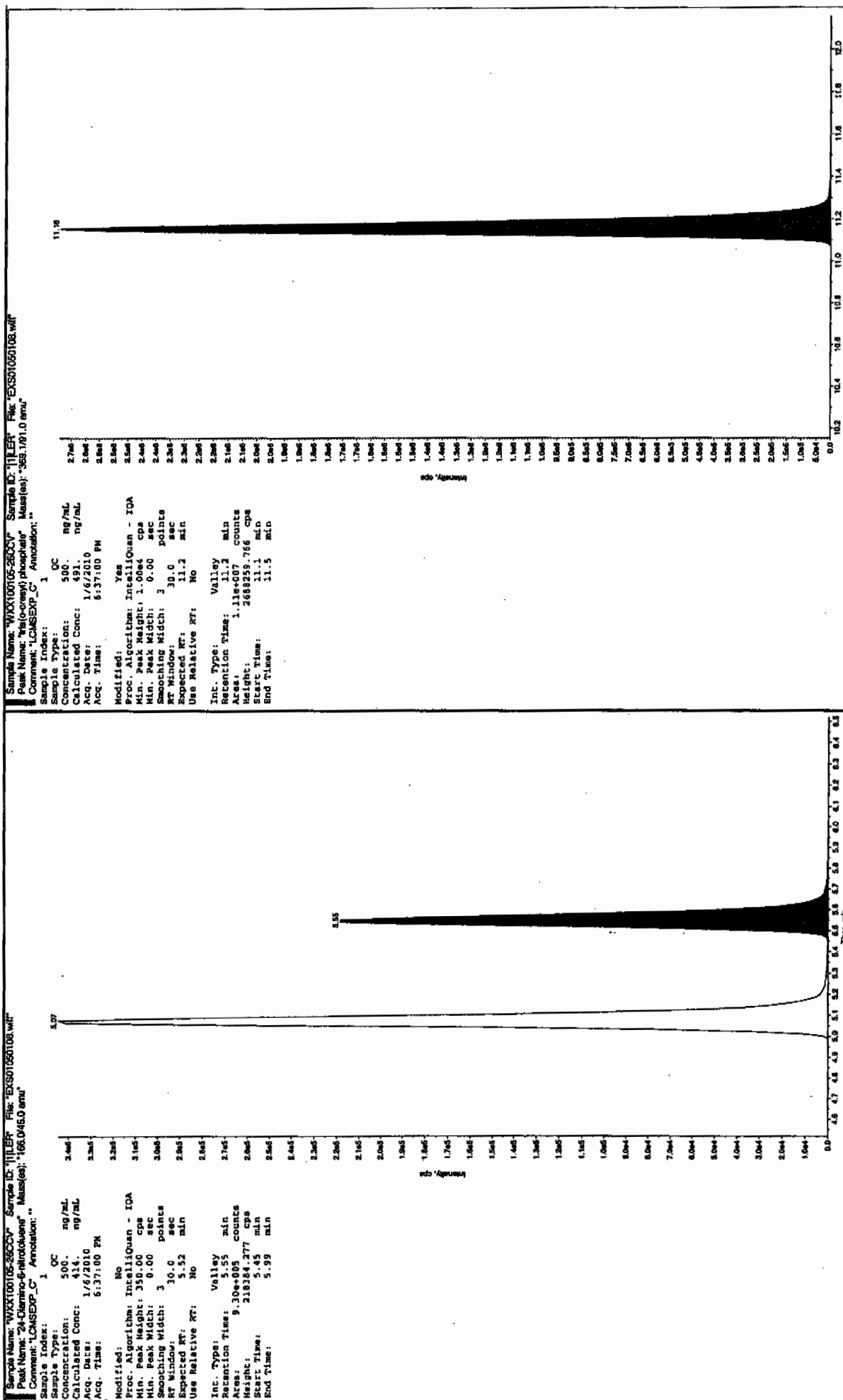
Area: 1.36e+006 counts

Height: 344358.063 cps

Start Time: 4.97 min

End Time: 5.37 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050110.wiff

Analysis Date: 06-JAN-10 19:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	84.7	85	
2,6-Diamino-4-nitrotoluene	100	85.7	86	
3,4-Dinitrotoluene	50	51.1	102	
3,5-Dinitroaniline	100	104	104	
TATB	100	122	122	
tris(o-cresyl) phosphate	100	108	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

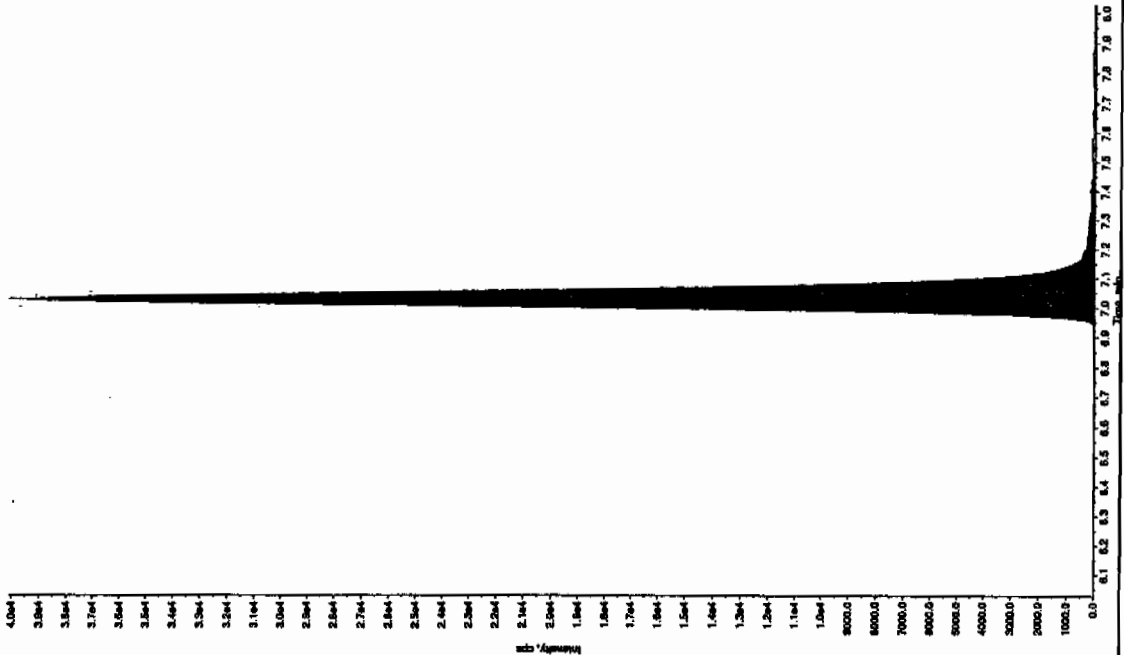
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

1/17/10
Bayer

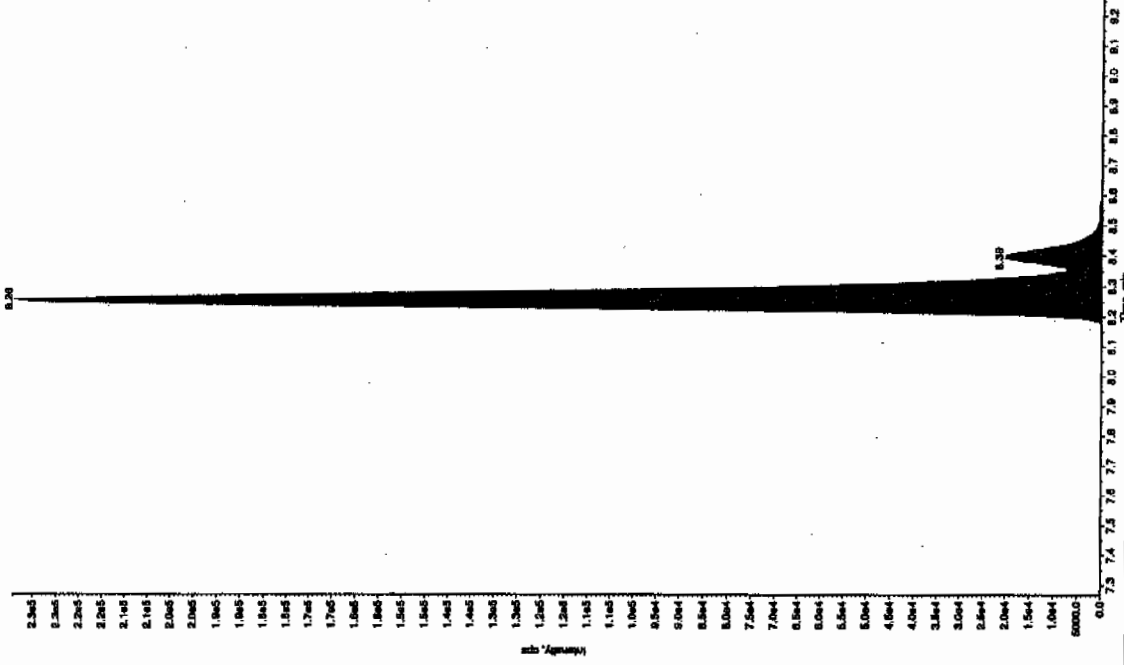
Sample Name: "WXX100105-2709" Sample ID: "11LEF" File: "EXS01050110.wif"
Peak Name: "TATB" Mass(es): "257.2004.9 amu"
Comment: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 100. ng/mL
Concentration: 122. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:08:24 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.03 min
Area: 3.65e+005 counts
Height: 40070.763 cps
Start Time: 6.88 min
End Time: 7.17 min

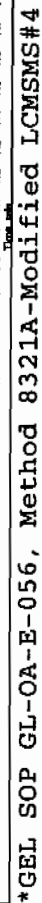


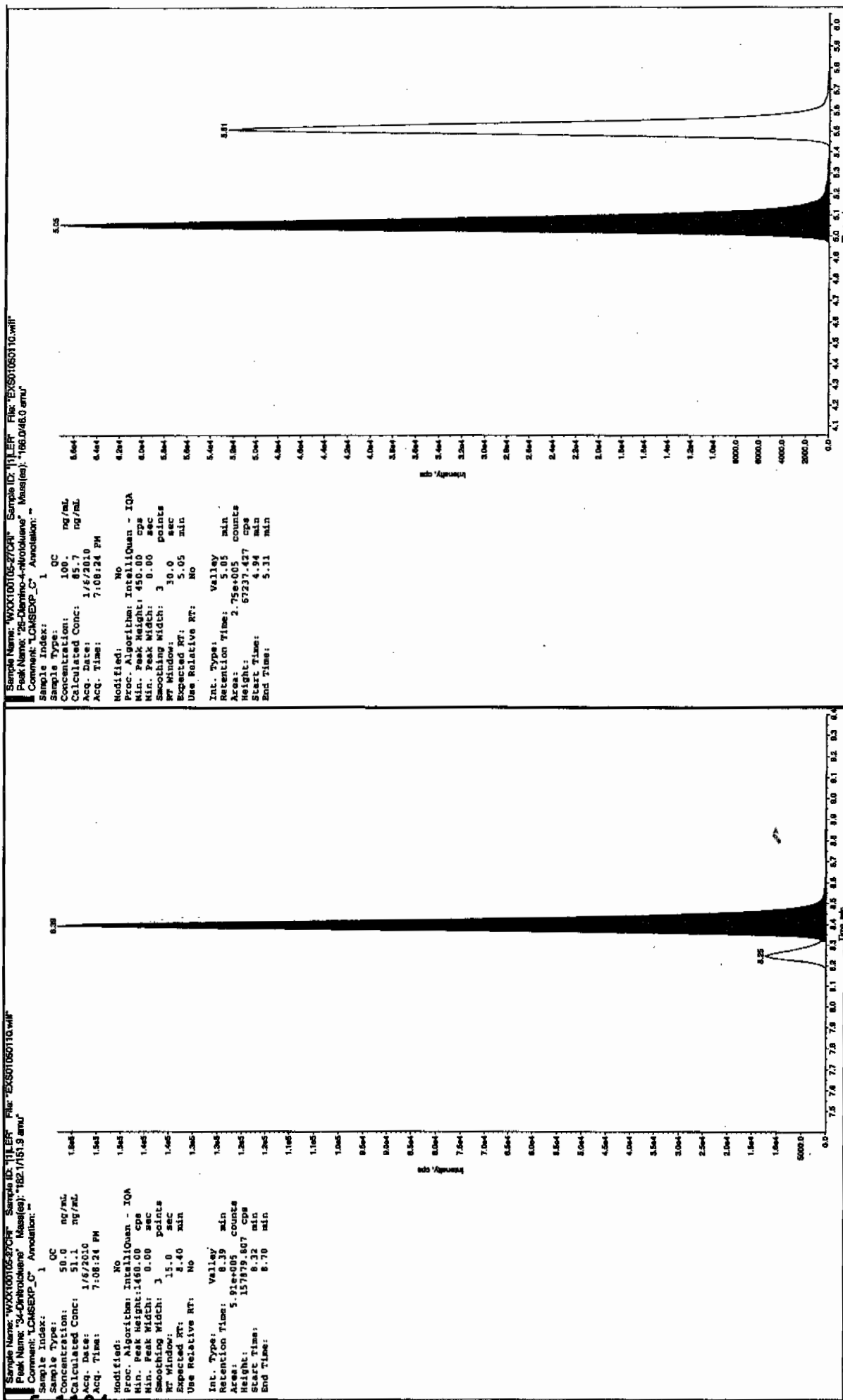
Sample Name: "WXX100105-2709" Sample ID: "11LEF" File: "EXS01050110.wif"
Peak Name: "35-Chloroquin" Mass(es): "182.046.0 amu"
Comment: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 100. ng/mL
Concentration: 114. ng/mL
Acq. Date: 1/6/2010
Acq. Time: 7:08:24 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.27 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.26 min
Area: 1.01e+006 counts
Height: 234001.816 cps
Start Time: 8.15 min
End Time: 8.68 min



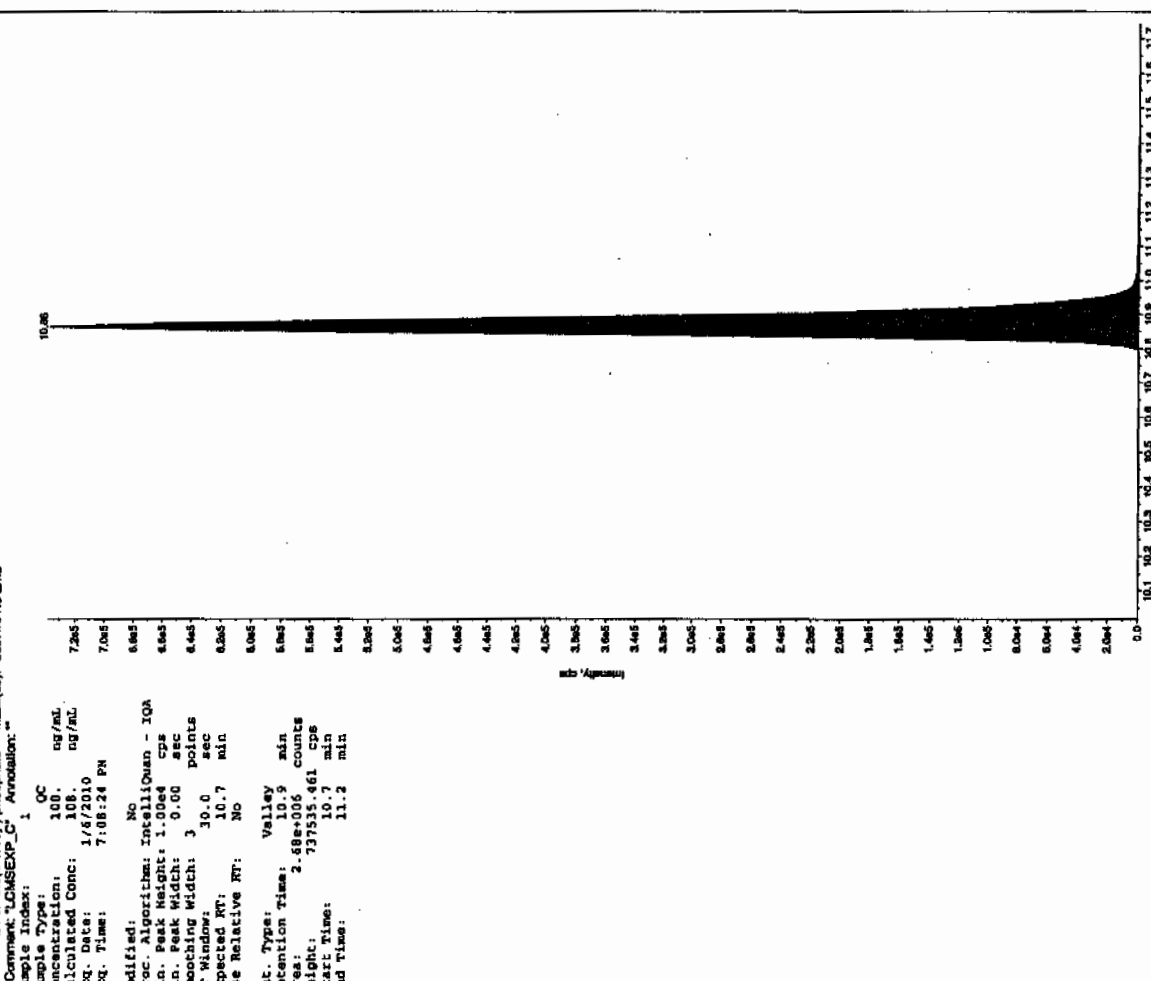
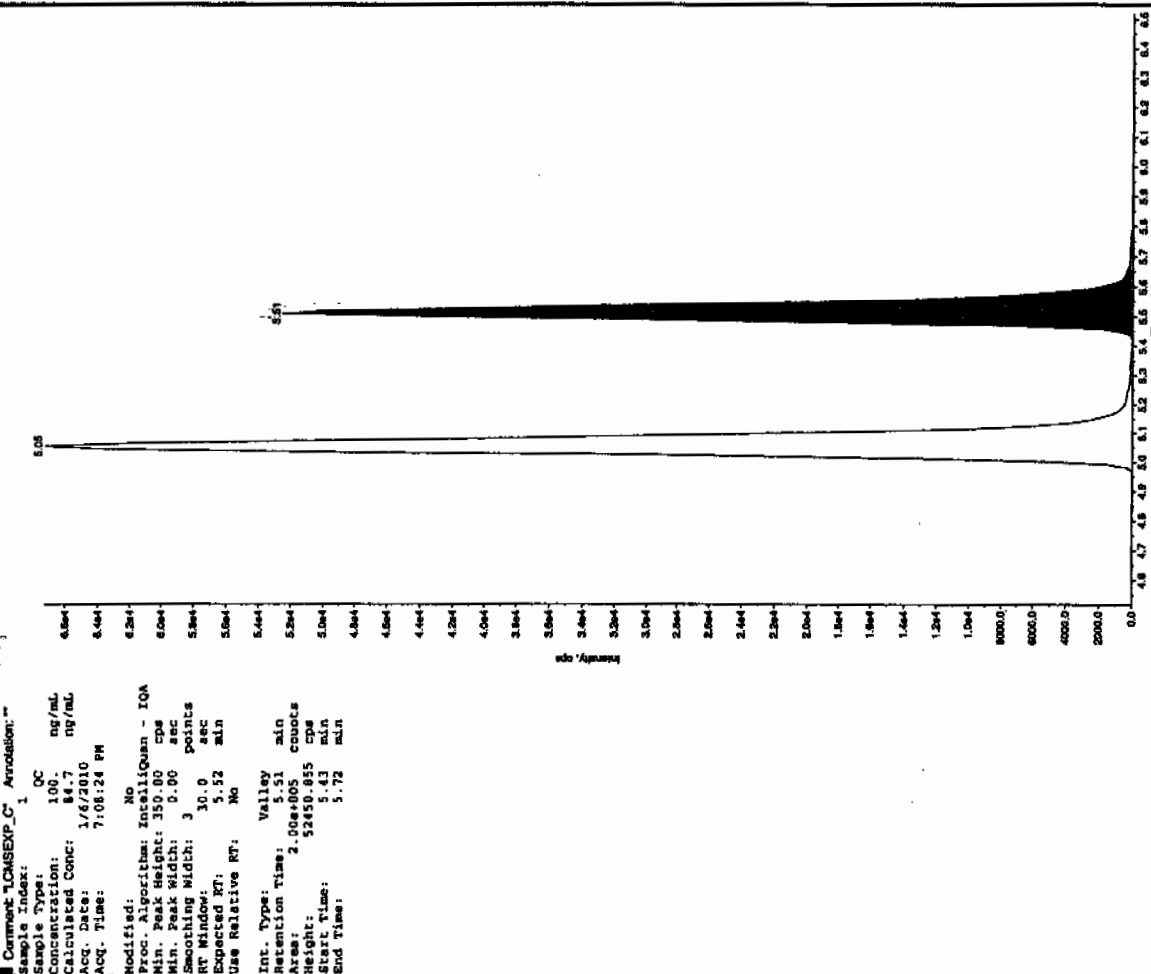
8.26





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100105-27C91" Sample ID: "11EP" File: "EXS01050110.w" Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01050121.wiff

Analysis Date: 06-JAN-10 22:01

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	419	84	
2,6-Diamino-4-nitrotoluene	500	466	93	
3,4-Dinitrotoluene	250	215	86	
3,5-Dinitroaniline	500	535	107	
TATB	500	521	104	
tris(o-cresyl) phosphate	500	521	104	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Sample Name: "WXX100106-260CV" Sample ID: "11ER" File: "EX501050121.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 521. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 10:01:02 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 7.03 min

Use Relative RT: No

Int. Type: Valley

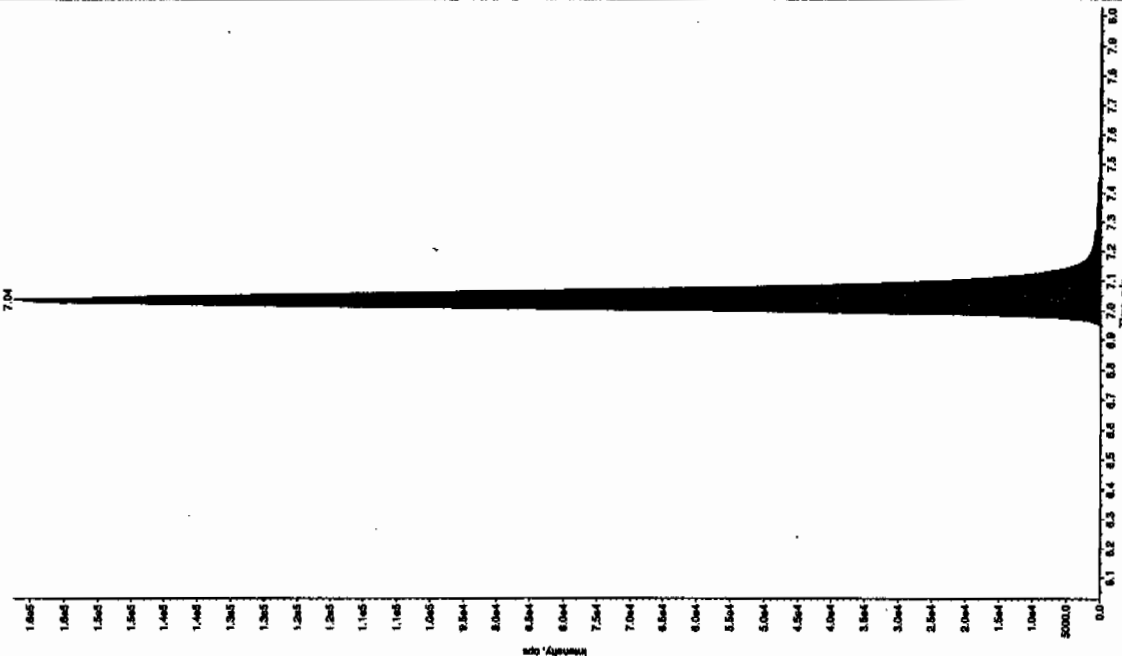
Retention Time: 7.04 min

Area: 7.13e+005 counts

Height: 16245.740 cps

Start Time: 6.27 min

End Time: 7.50 min



Sample Name: "WXX100106-260CV" Sample ID: "11ER" File: "EX501050121.wif"

Peak Name: "35-Chloranthene" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 535. ng/mL

Acq. Date: 1/6/2010

Acq. Time: 10:01:02 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.27 min

Use Relative RT: No

Int. Type: Valley

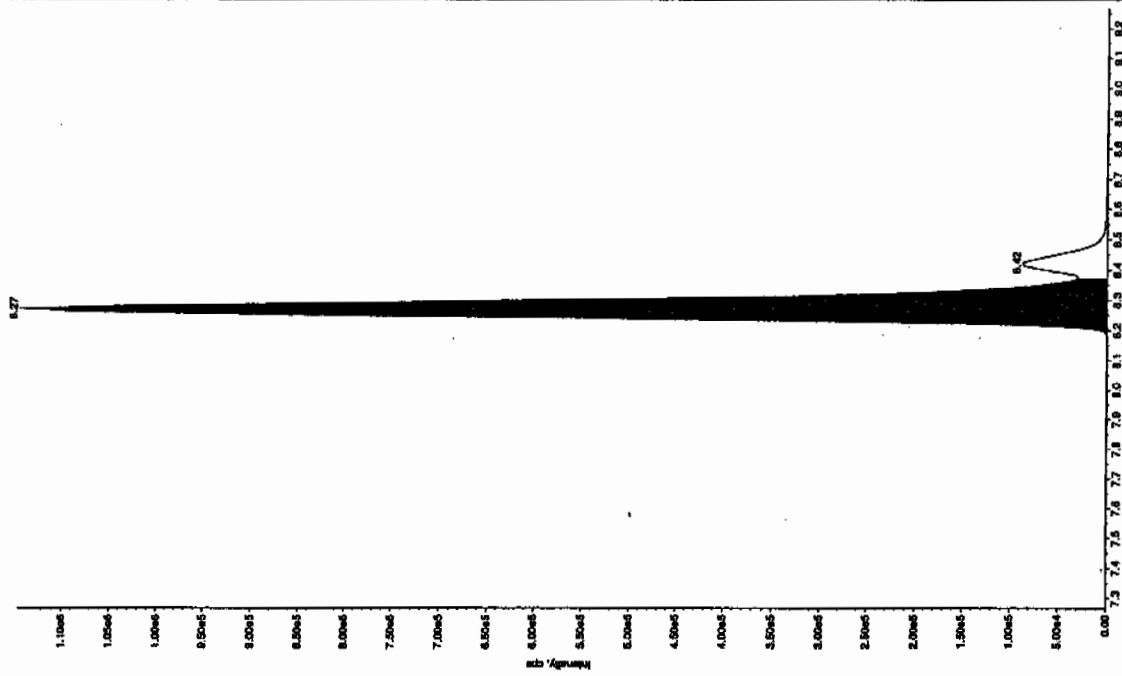
Retention Time: 8.27 min

Area: 4.53e+006 counts

Height: 1144631.348 cps

Start Time: 8.16 min

End Time: 8.37 min



Time 01/07/10

Sample Name: "XXX100105-2602V" Sample ID: "111EP" File: "EXS01050121.wif"

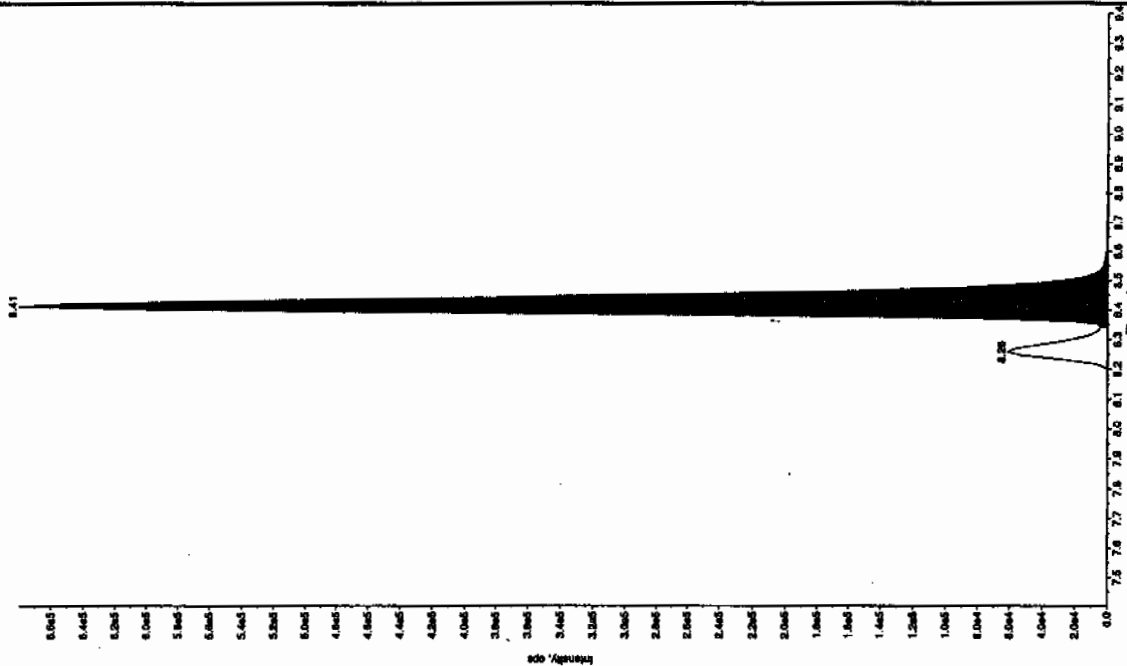
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"

Comment: "LCMS-EXP_C_1" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 215. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 19:01:02 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 468.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 15.0 sec
 RT Window: 8.40 min
 Expected RT: No
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.41 min
 Area: 2.68e+006 counts
 Height: 679351.074 cps
 Start Time: 8.34 min
 End Time: 8.71 min



Sample Name: "XXX100105-2602V" Sample ID: "111EP" File: "EXS01050121.wif"

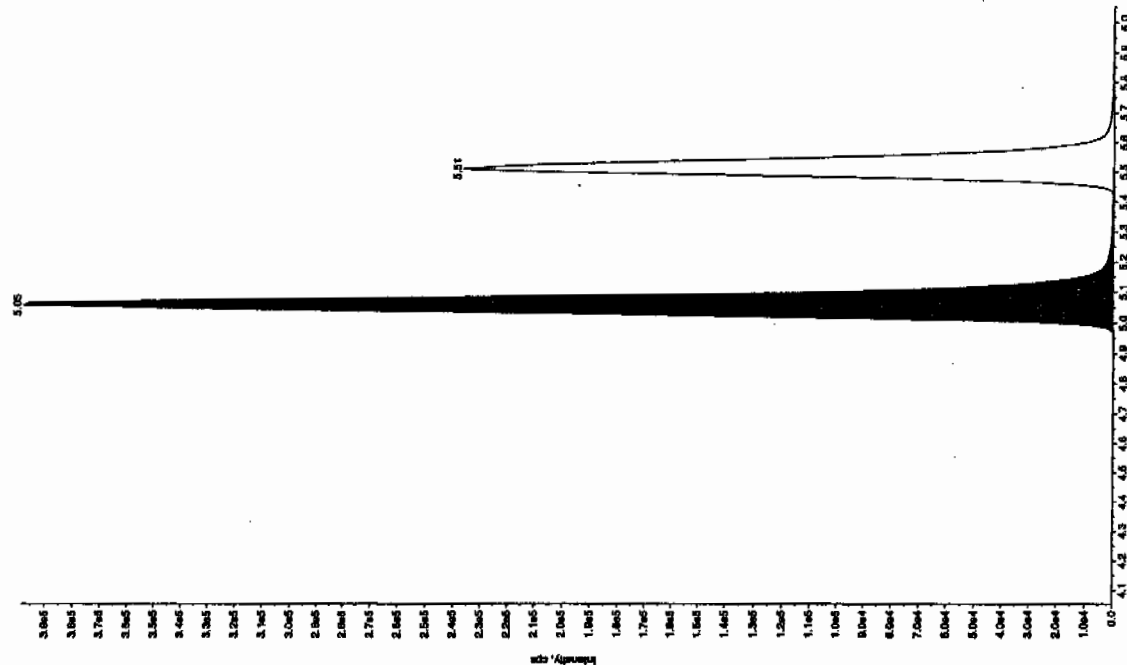
Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.046.0 amu"

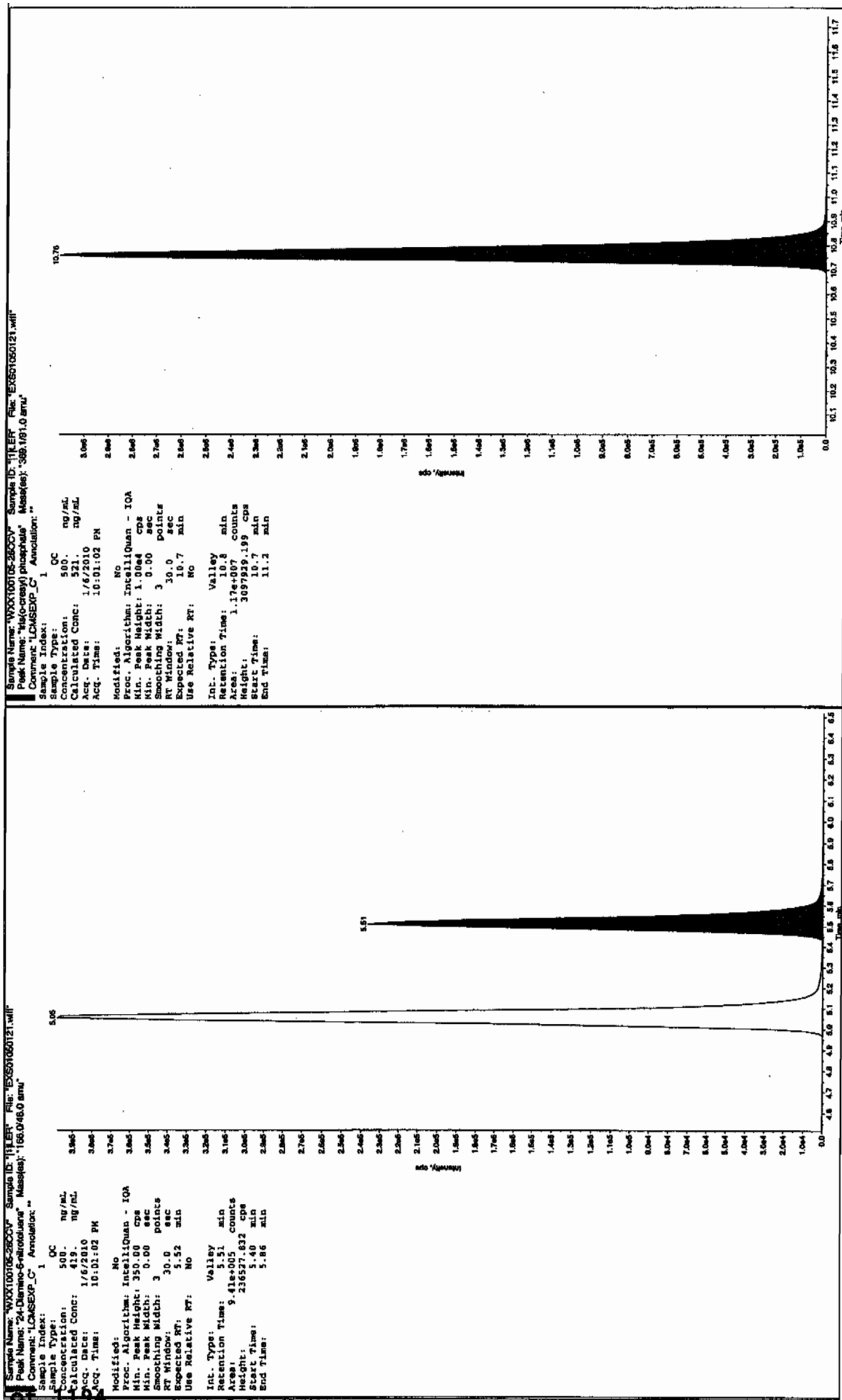
Comment: "LCMS-EXP_C_1" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 466. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 10:01:02 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 430.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 30.0 sec
 RT Window: 5.05 min
 Expected RT: No
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 5.05 min
 Area: 1.60e+006 counts
 Height: 398127.289 cps
 Start Time: 4.95 min
 End Time: 5.35 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01050123.wiff

Analysis Date: 06-JAN-10 22:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	71.6	72	
2,6-Diamino-4-nitrotoluene	100	90	90	
3,4-Dinitrotoluene	50	51.4	103	
3,5-Dinitroaniline	100	101	101	
TATB	100	122	122	
tris(o-cresyl) phosphate	100	106	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

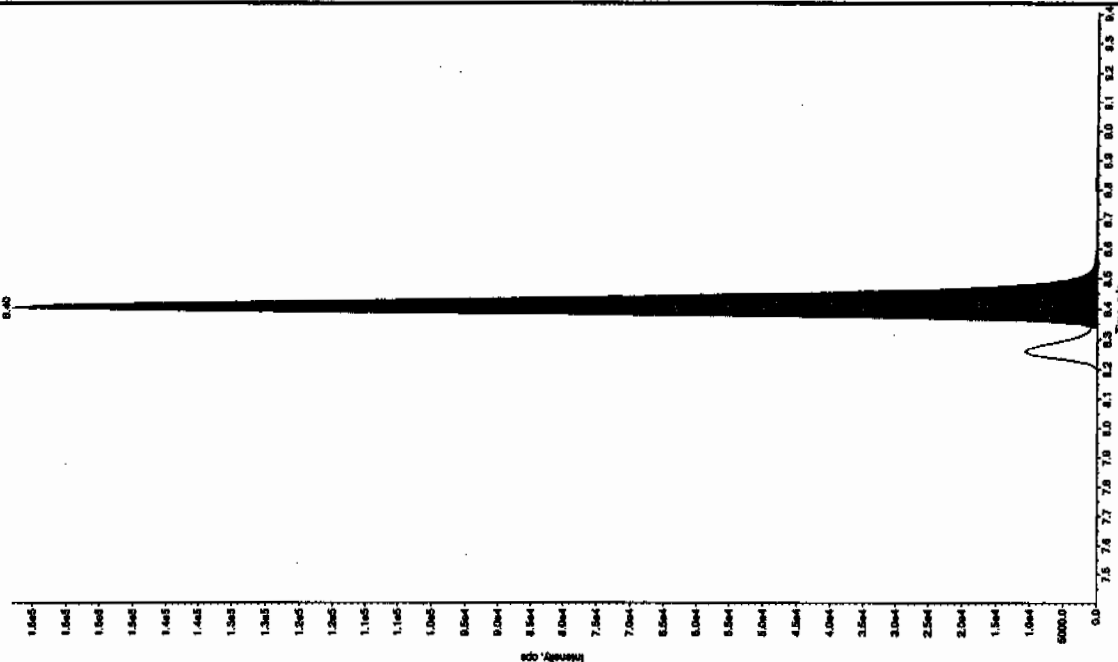
* Value outside of Recovery Limits



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

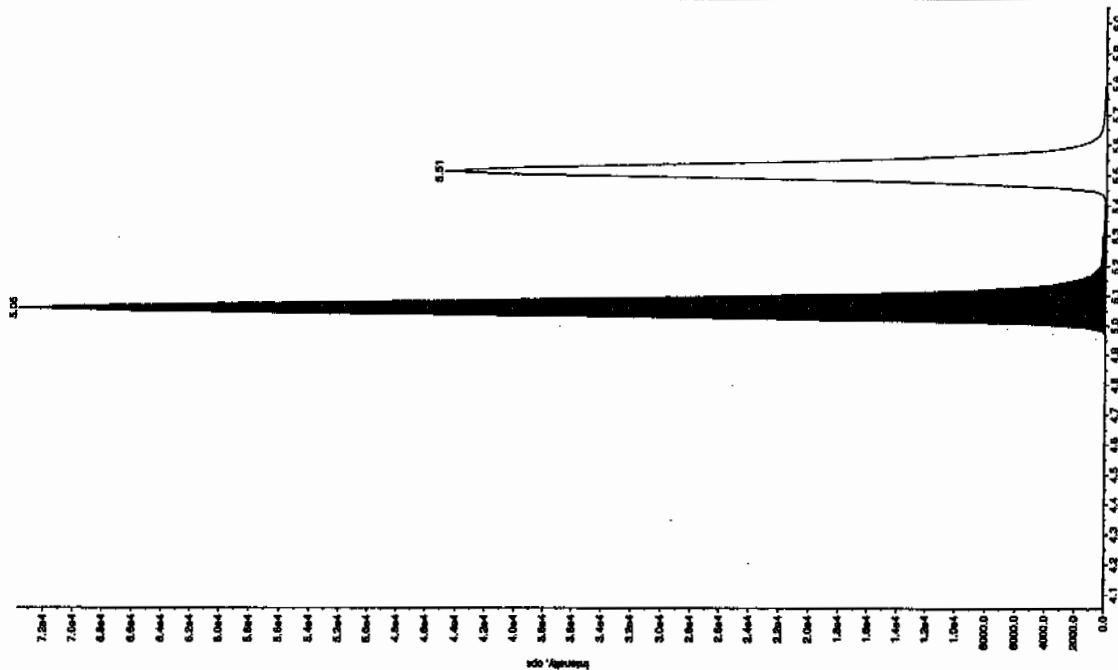
Sample Name: "WXX100105-2709" Sample ID: "11LEF" File: "EX501050123.wif"
 Peak Name: "94-Dihydrokynure" Mass(es): "182.17019 amu"
 Comment: "LCASEXP_C" Annotation: ""

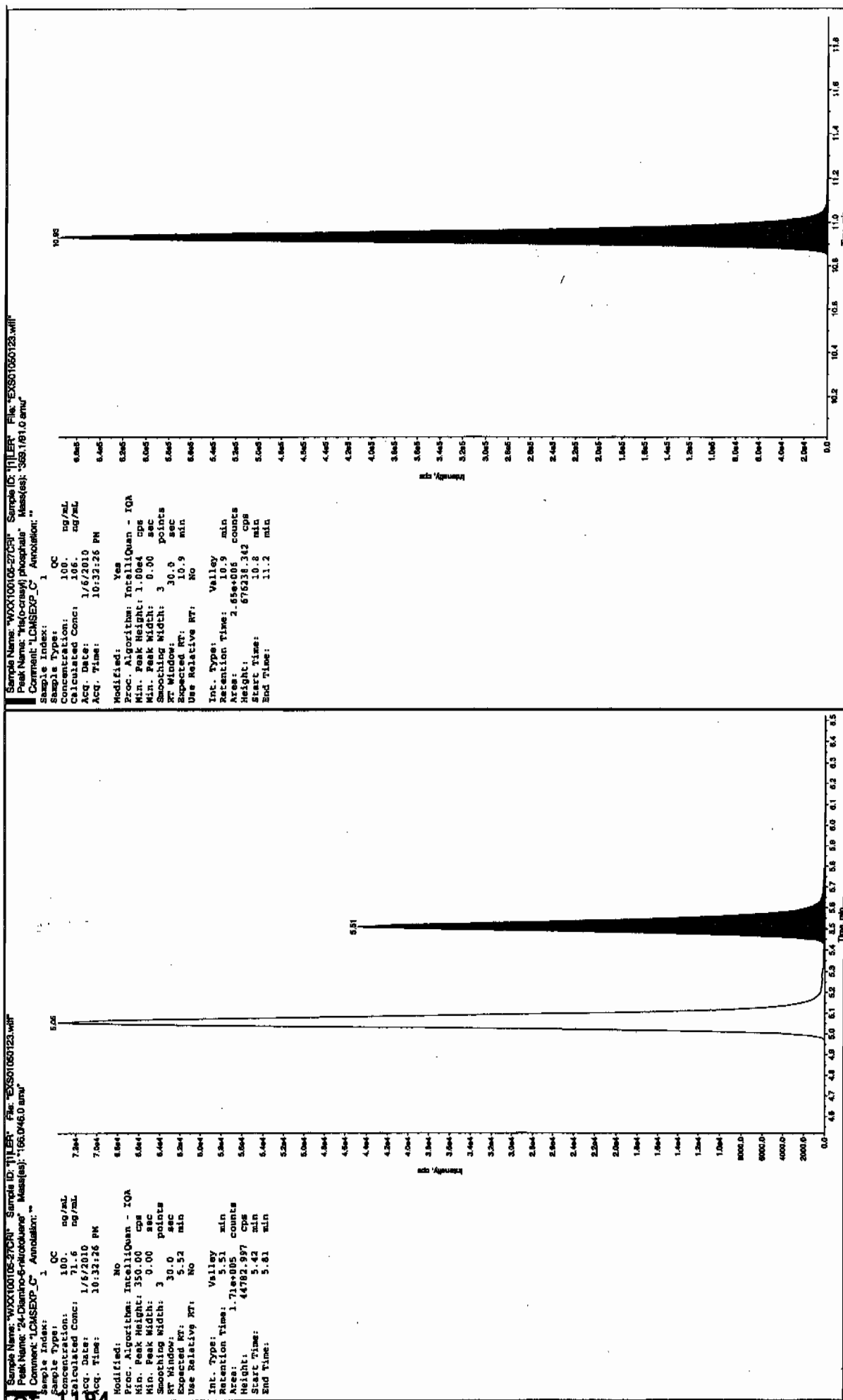
Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 51.4 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 10:32:26 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 160.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 5.95e+005 counts
 Height: 163195.206 cps
 Start Time: 8.34 min
 End Time: 8.72 min



Sample Name: "WXX100105-2709" Sample ID: "11LEF" File: "EX501050123.wif"
 Peak Name: "94-Dihydrokynure" Mass(es): "182.0480 amu"
 Comment: "LCASEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 90.0 ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 10:32:26 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.05 min
 Area: 2.51e+005 counts
 Height: 73807.457 cps
 Start Time: 4.95 min
 End Time: 5.35 min





*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSEMS#4

QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 936888

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004626

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108137a

Date Analyzed: 11-JAN-10 12:08

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108137a

Date: 11-Jan-2010

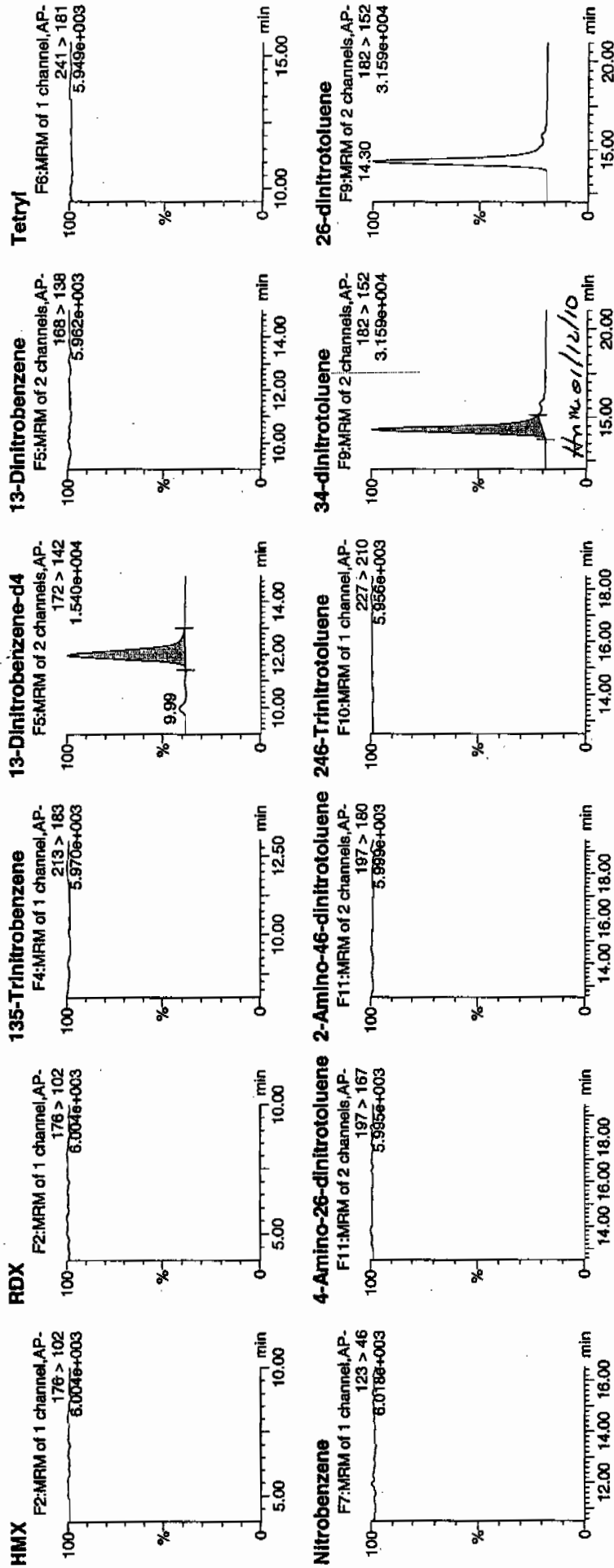
Time: 12:08:53

ID: 1202004626

Vial: 3:1,A

1/12/10

WAVU 936890 | 8022 | NB | 2 |

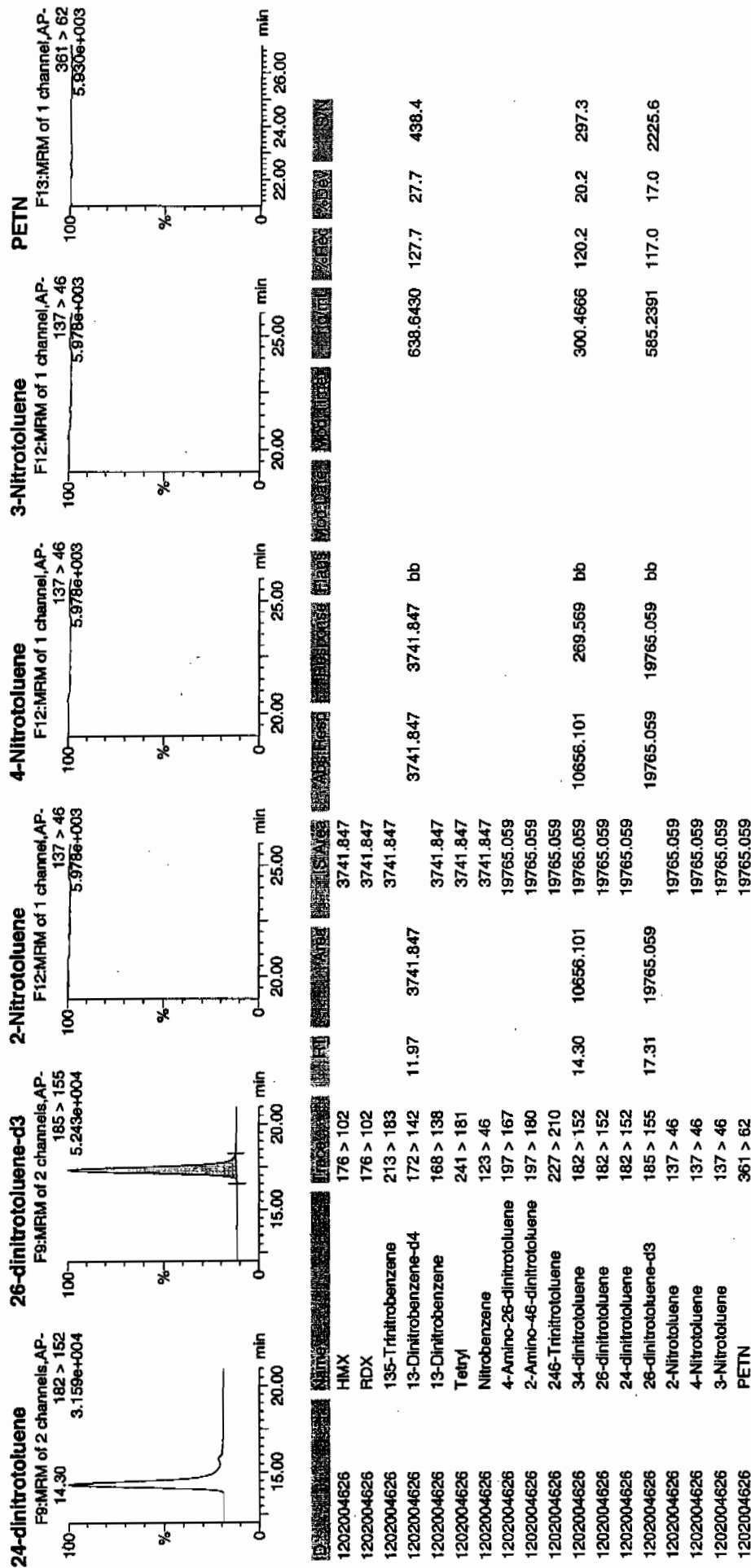


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Jan 12 10:23:41 2010, Page 26 of 111

Dataset: C:\MASSLYNX\New_Exp_PROV010810expA2.qld, Time: Tue Jan 12 10:23:04 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 936888

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004626

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050098.wiff

Date Analyzed: 06-JAN-10 15:59

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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202/12/19

Sample Name: "1202004626" Sample ID: "93689021.E" File: "EX01050088.wif"

Peak Name: "1A1B" Mass(es): "257.2/264.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

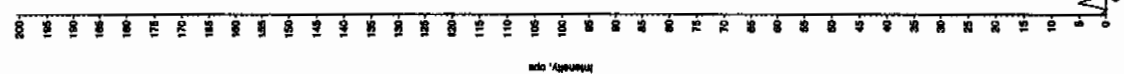
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/6/2010

Acq. Time: 3:59:59 PM

Modified: No



Sample Name: "1202004626" Sample ID: "93689021.E" File: "EX01050088.wif"

Peak Name: "S-Dinitroaniline" Mass(es): "182.0/166.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

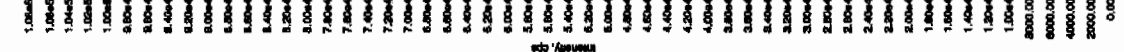
Concentration: N/A

Calculated Conc: 0.00 ng/mL

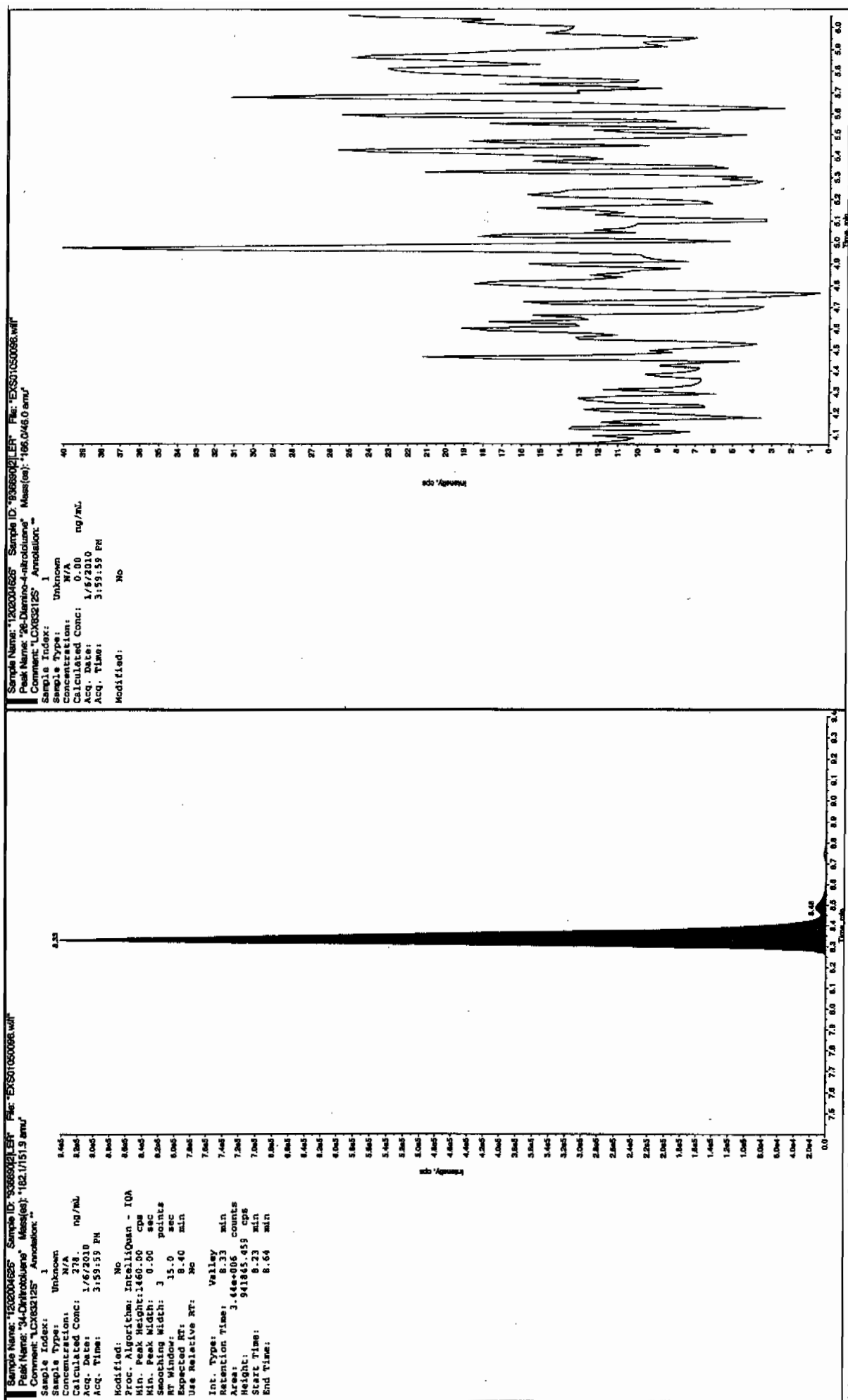
Acq. Date: 1/6/2010

Acq. Time: 3:59:59 PM

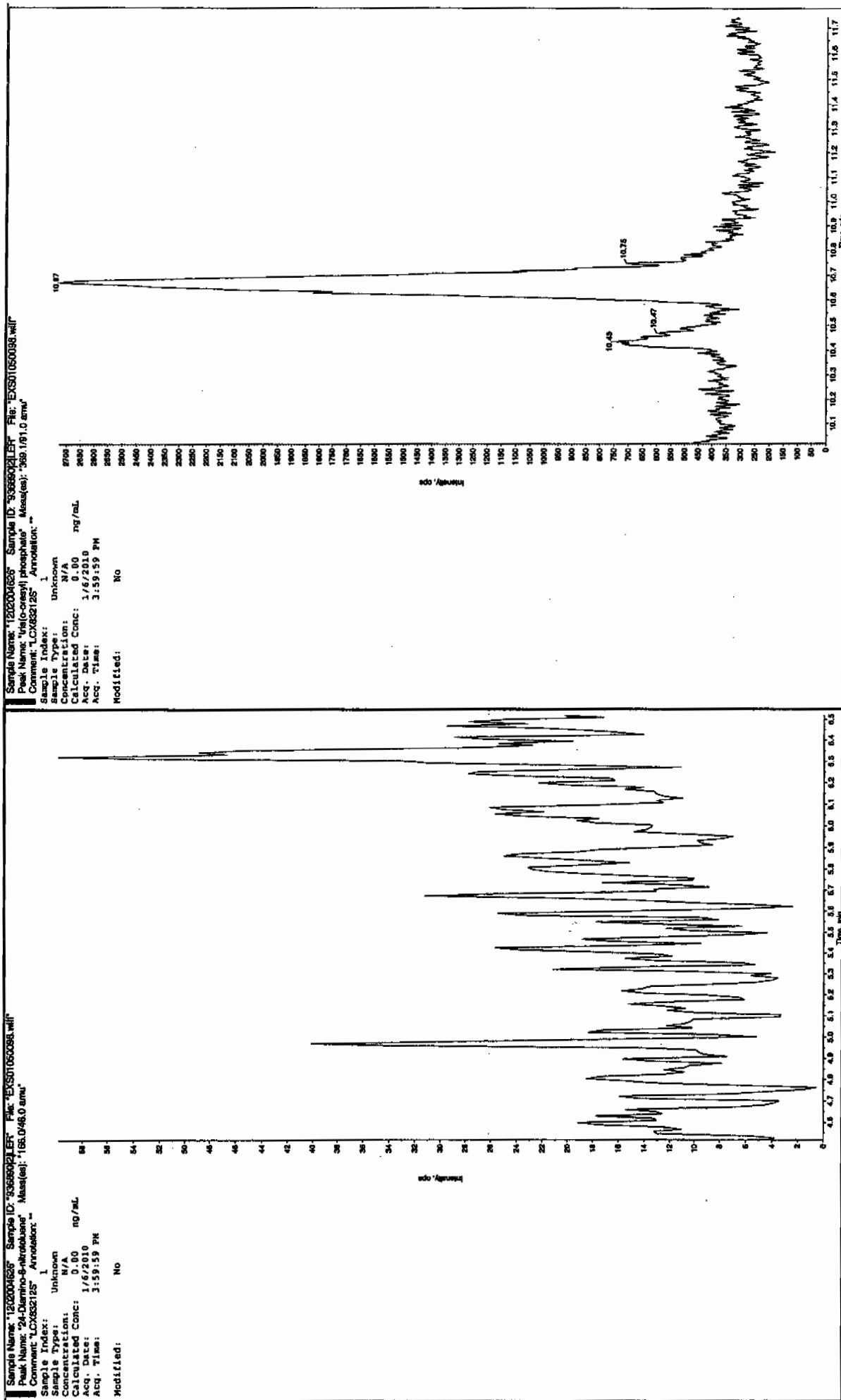
Modified: Yes



Amr 01/07/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 936888

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004627

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108138a

Date Analyzed: 11-JAN-10 12:38

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5730	
121-14-2	2,4-Dinitrotoluene	4700	
121-82-4	RDX	5190	
19406-51-0	4-Amino-2,6-dinitrotoluene	5050	
2691-41-0	HMX	4950	
35572-78-2	2-Amino-4,6-dinitrotoluene	5570	
479-45-8	Tetryl	4000	
606-20-2	2,6-Dinitrotoluene	4610	
78-11-5	PETN	5250	
88-72-2	o-Nitrotoluene	4320	
98-95-3	Nitrobenzene	4210	
99-08-1	m-Nitrotoluene	3820	
99-35-4	1,3,5-Trinitrobenzene	5100	
99-65-0	m-Dinitrobenzene	4720	
99-99-0	p-Nitrotoluene	4190	

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108138a

Date: 11-Jan-2010

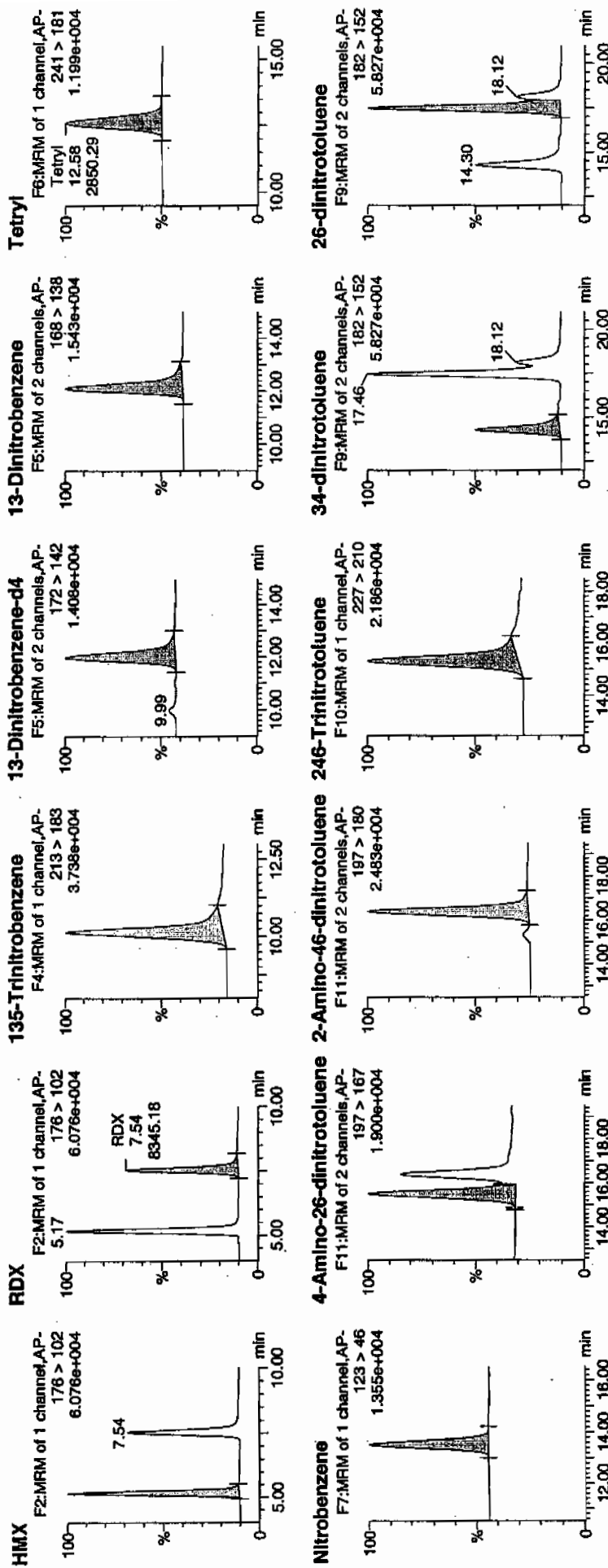
Time: 12:38:27

ID: 1202004627

Vial: 3:1,B

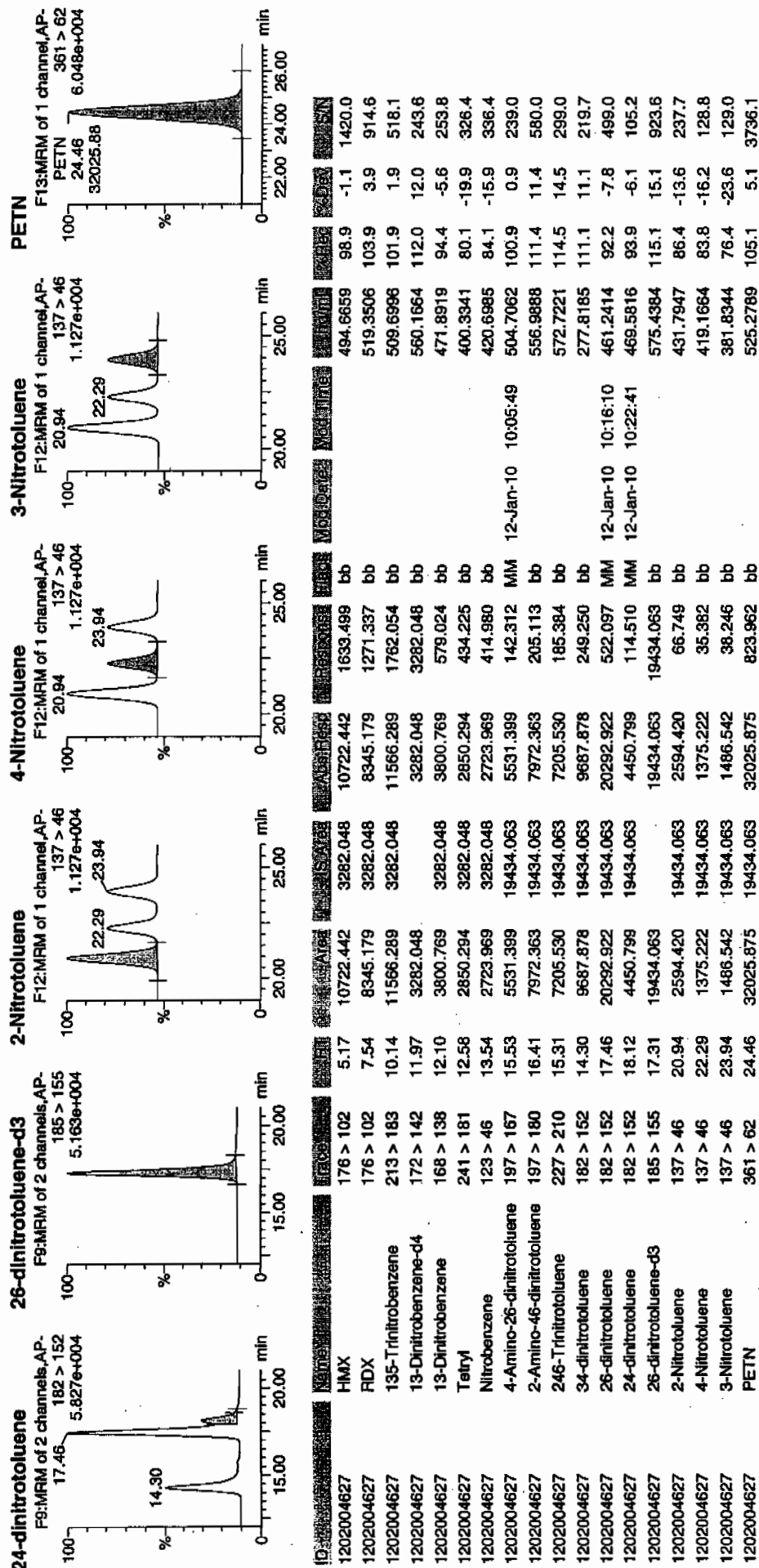
1/12/10

936920 / 8022 / 08 / 21



1/12/10

Dataset: C:\MASSLYNX\New_Exp_PRO\010810expA2.qtd, Time: Tue Jan 12 10:23:04 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 936888

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004627

Sample Amount 2

Moisture:

Amount Units g

Date Received: 28-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050099.wiff

Date Analyzed: 06-JAN-10 16:15

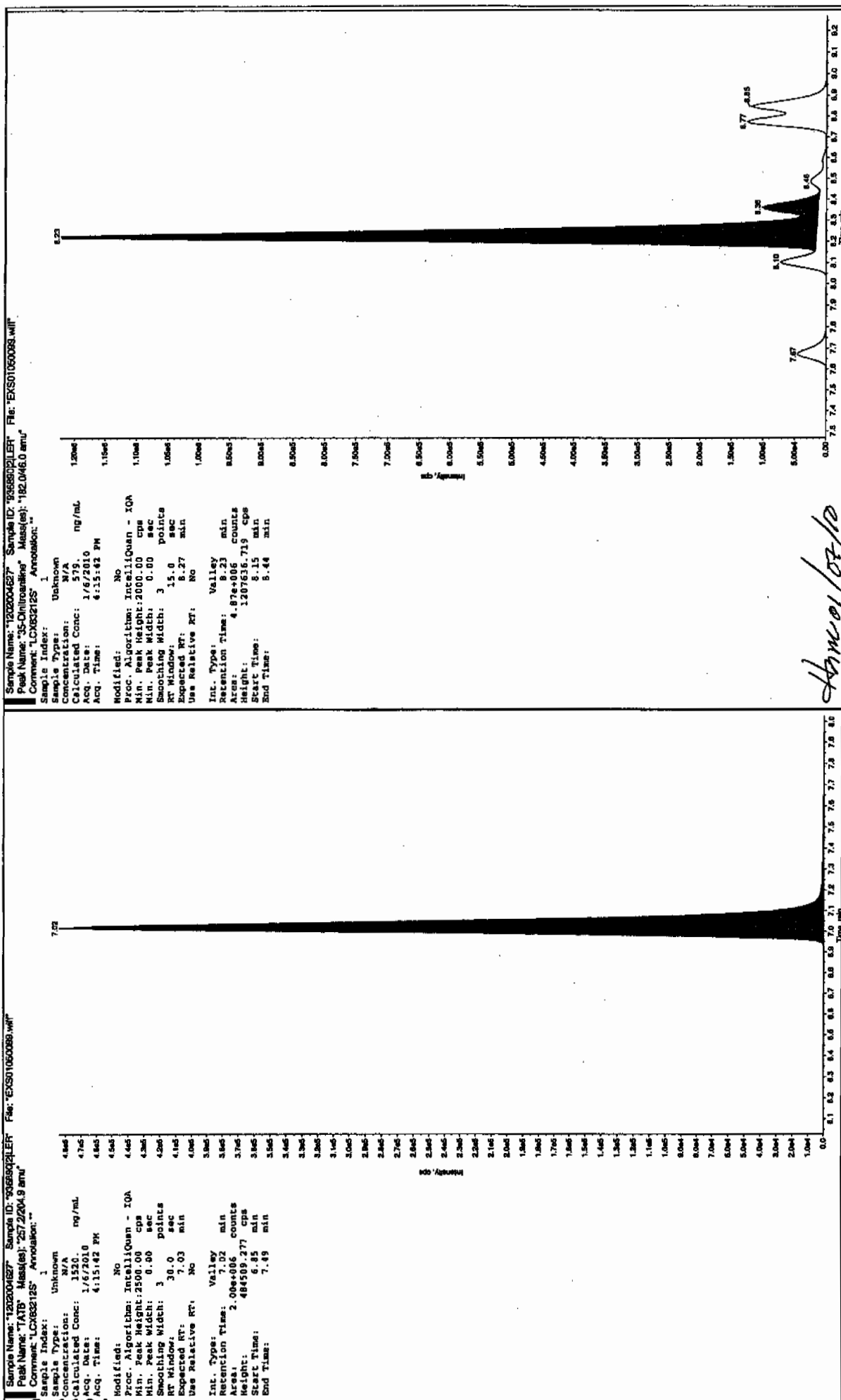
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	15200	
59229-75-3	2,6-Diamino-4-nitrotoluene	3260	
618-87-1	3,5-Dinitroaniline	5540	
6629-29-4	2,4-Diamino-6-nitrotoluene	3180	
78-30-8	tris(o-cresyl) phosphate	5330	

*Concentration =

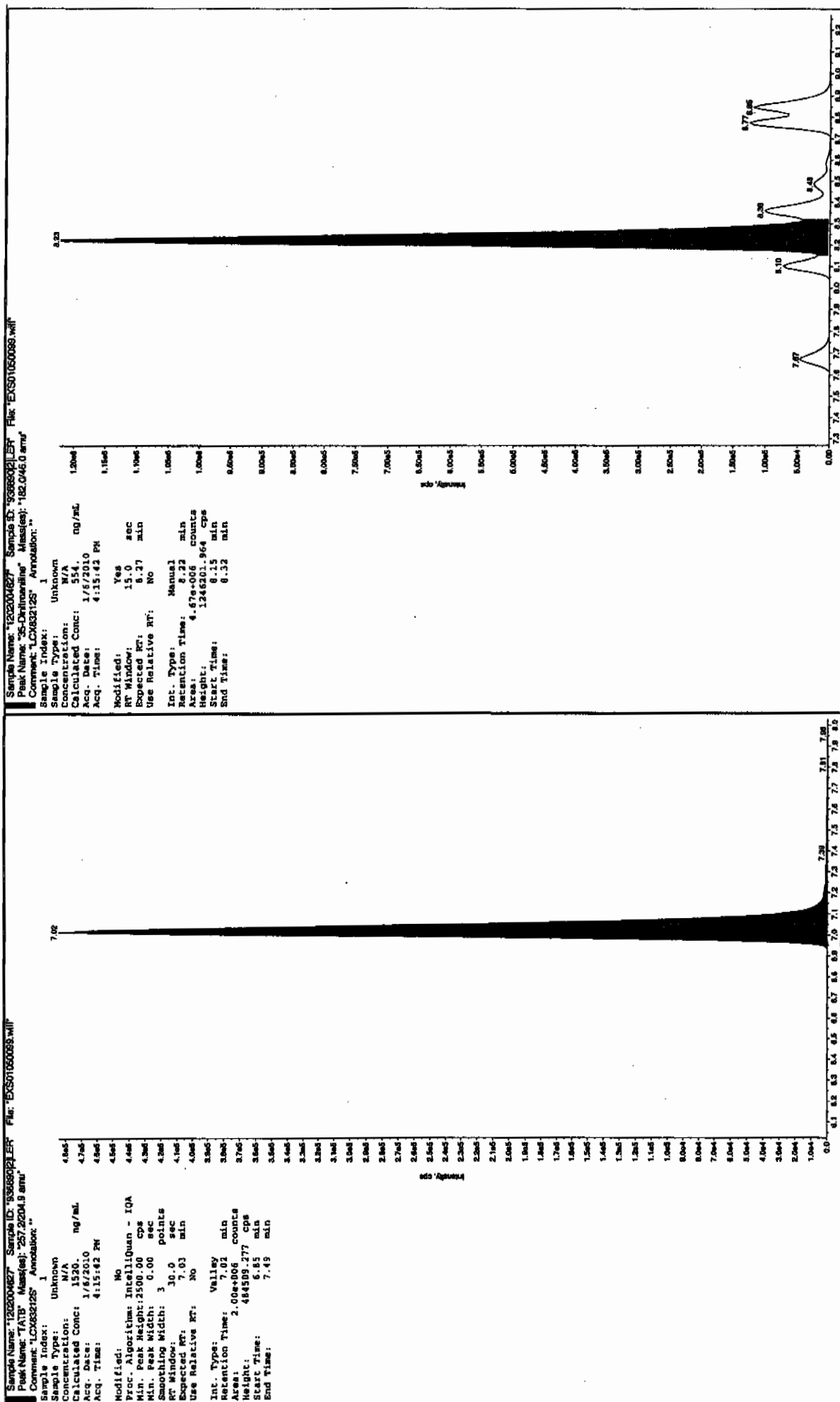
Instrument Value	X	<u>Concentrated Extract Volume</u> Sample Amount	X	Dilution Factor
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01/14/11
20080201



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

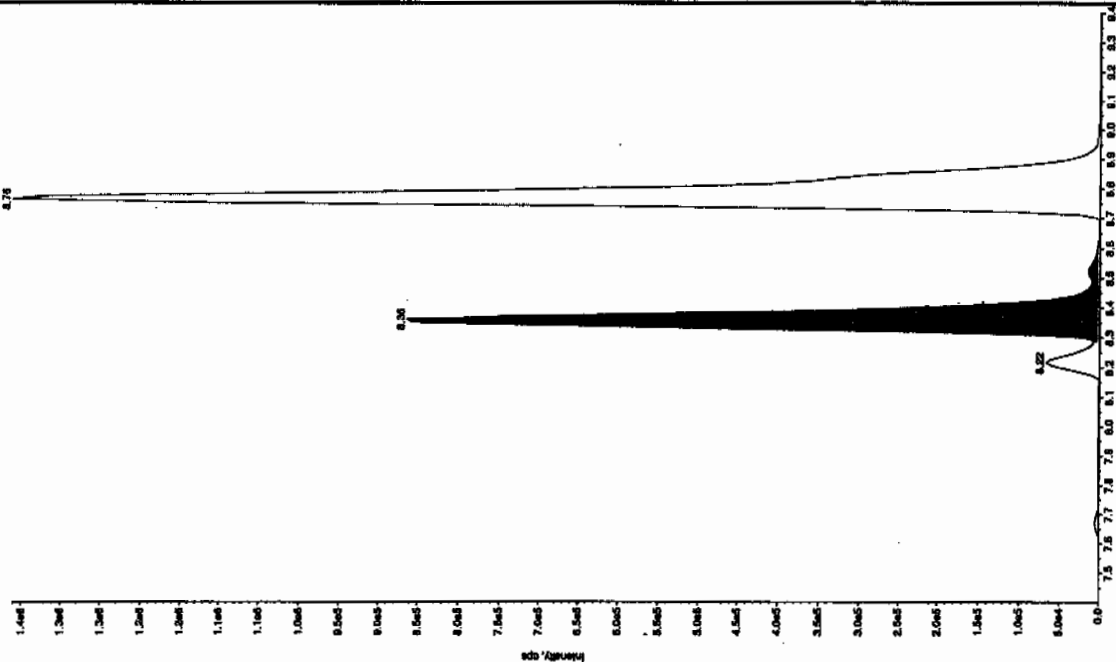
01/11/10
2011/10
2011/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

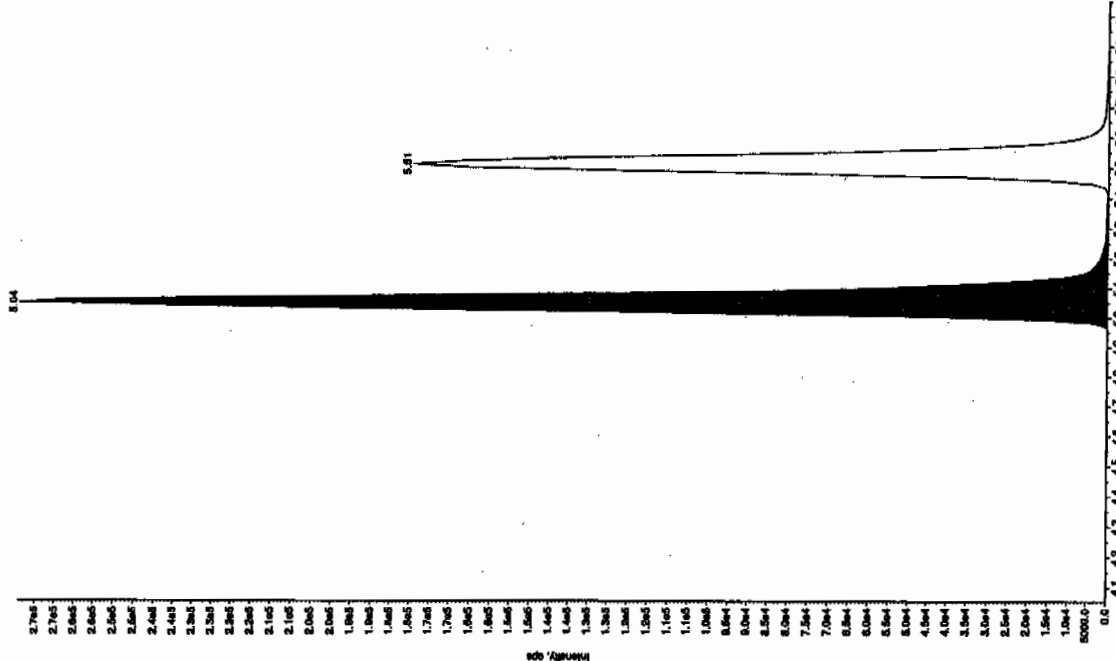
Sample Name: "1202004627" Sample ID: "30680021EF" File: "EX001050089.wif"
 Peak Name: "34-Dinitrobenz" Mass(es): "162.1/151.9 amu"
 Comment: "LC0632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 272. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:15:42 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 6.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 3.38e+006 counts
 Height: 860774.841 cps
 Start Time: 8.29 min
 End Time: 8.60 min



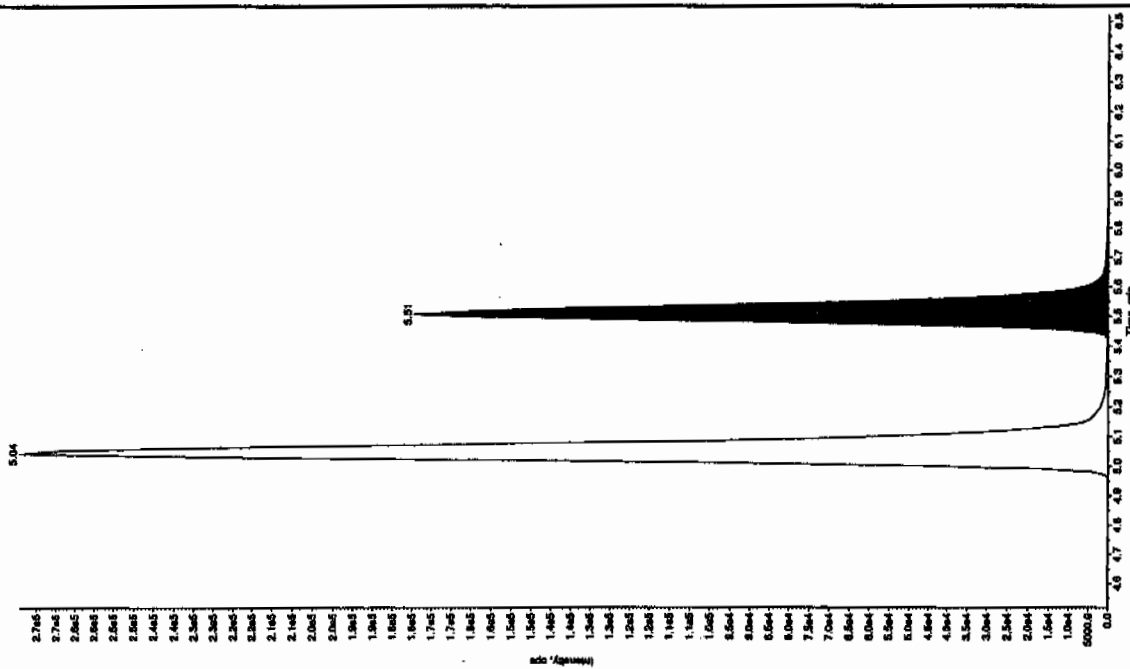
Sample Name: "1202004627" Sample ID: "30680021EF" File: "EX001050089.wif"
 Peak Name: "28-Dinitro-4-nitrotoluene" Mass(es): "166.0/146.0 amu"
 Comment: "LC0632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 325. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:15:42 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 1.12e+006 counts
 Height: 276329.895 cps
 Start Time: 4.94 min
 End Time: 5.34 min



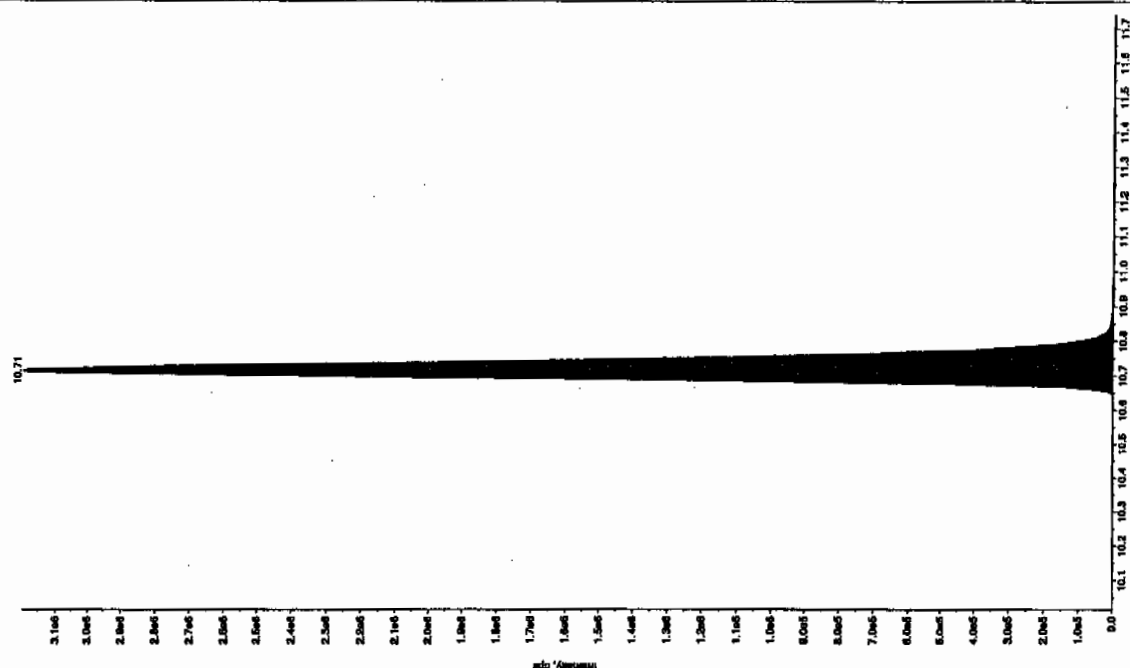
Sample Name: "1202004827" Sample ID: "93689021.ER" File: "EX501050039.will"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCX532125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 318. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:15:42 PM
 Modified: No
 Proc. Algorithm: IntelligQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.52 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 7.16e+005 counts
 Height: 174497.955 cps
 Start Time: 5.42 min
 End Time: 5.92 min



Sample Name: "1202004827" Sample ID: "93689021.ER" File: "EX501050039.will"
 Peak Name: "Violet-cray(II) phosphate" Mass(es): "369.101.0 amu"
 Comment: "LCX532125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 533. ng/mL
 Acq. Date: 1/6/2010
 Acq. Time: 4:15:42 PM
 Modified: No
 Proc. Algorithm: IntelligQuan - IOA
 Min. Peak Height: 1.00e+005 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.7 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.20e+007 counts
 Height: 319582.666 cps
 Start Time: 10.6 min
 End Time: 11.0 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288(243490001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004628

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0108140a

Date Analyzed: 11-JAN-10 13:37

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5410	
121-14-2	2,4-Dinitrotoluene	5130	
121-82-4	RDX	4770	
19406-51-0	4-Amino-2,6-dinitrotoluene	4940	
2691-41-0	HMX	4610	
35572-78-2	2-Amino-4,6-dinitrotoluene	5520	
479-45-8	Tetryl	2410	
606-20-2	2,6-Dinitrotoluene	4770	
78-11-5	PETN	5740	
88-72-2	o-Nitrotoluene	4640	
98-95-3	Nitrobenzene	4140	
99-08-1	m-Nitrotoluene	4090	
99-35-4	1,3,5-Trinitrobenzene	4540	
99-65-0	m-Dinitrobenzene	4520	
99-99-0	p-Nitrotoluene	4360	

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\10810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0108140a

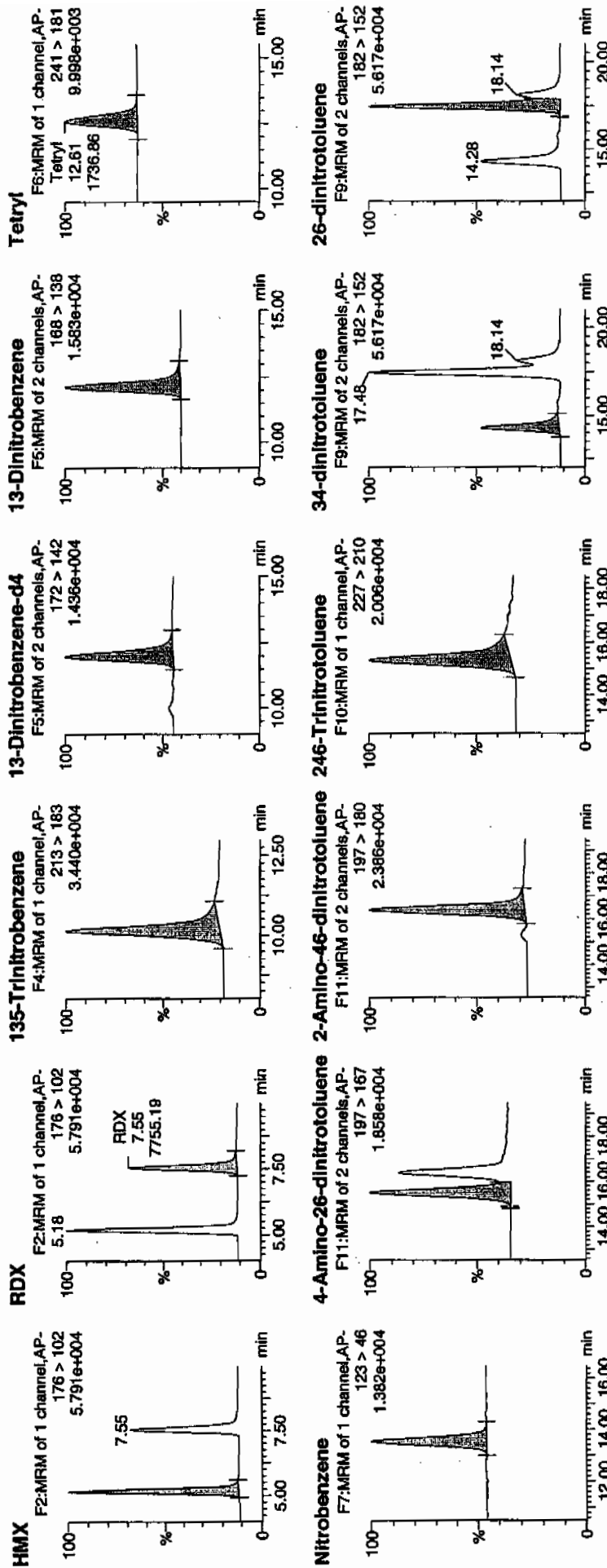
Date: 11-Jan-2010

Time: 13:37:24

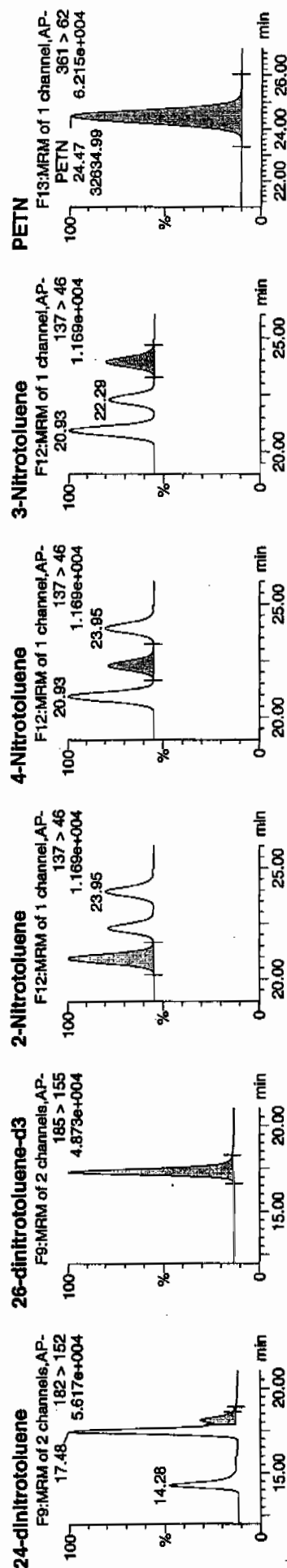
ID: 1202004628

Vial: 3:1,D

11/2/10
24349001ms / 21
LAV / 936890 / SOLG



same as 11/2/10



Chemical Name	Concentration (ppm)	Response	Peak	Retention Time (min)	Area	Height	Width	Signal-to-Noise
1,2-Dichlorobenzene	176 > 102	5.18	10110.592	3318.816	10110.592	1523.223	bb	461.2715
1,3-Dichlorobenzene	176 > 102	7.55	7755.193	3318.816	7755.193	1168.367	bb	477.2867
1,4-Dichlorobenzene	213 > 183	10.14	10407.486	3318.816	10407.486	1567.952	bb	453.5528
1,2,3-Trichlorobenzene	172 > 142	12.00	3318.816	3318.816	3318.816	3318.816	bb	566.4418
1,2,4-Trichlorobenzene	168 > 138	12.13	3682.959	3318.816	3682.959	554.860	bb	452.1991
1,3,5-Trichlorobenzene	241 > 181	12.61	1736.859	3318.816	1736.859	261.668	bb	241.2455
1,2,6-Trichlorobenzene	123 > 46	13.53	2711.914	3318.816	2711.914	408.566	bb	414.1966
1,2,3,4-Tetrachlorobenzene	197 > 167	15.52	5058.650	18156.383	5058.650	139.308	MM	494.0519
1,2,3,5-Tetrachlorobenzene	197 > 180	16.40	7386.455	18156.383	7386.455	203.412	bb	552.3695
1,2,3,6-Tetrachlorobenzene	227 > 210	15.34	6359.177	18156.383	6359.177	175.122	bb	541.0199
1,2,4,5-Tetrachlorobenzene	182 > 152	14.28	8598.895	18156.383	8598.895	236.801	bb	263.9425
1,2,4,6-Tetrachlorobenzene	182 > 152	17.48	19601.479	18156.383	19601.479	539.796	MM	476.8774
1,2,5,6-Tetrachlorobenzene	182 > 152	18.14	4544.898	18156.383	4544.898	125.160	MM	513.2530
1,2,3,4,5-Pentachlorobenzene	185 > 155	17.30	18156.383	18156.383	18156.383	18156.383	bb	537.6066
1,2,3,4,6-Pentachlorobenzene	137 > 46	20.93	2602.658	18156.383	2602.658	71.673	bb	463.6480
1,2,3,5,6-Pentachlorobenzene	137 > 46	22.29	1335.714	18156.383	1335.714	36.784	bb	435.7741
1,2,3,4,7-Pentachlorobenzene	137 > 46	23.95	1489.236	18156.383	1489.236	41.011	bb	409.4451
1,2,3,5,7-Pentachlorobenzene	361 > 62	24.47	32634.990	18156.383	32634.990	898.719	bb	573.9332

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288(243490001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004628

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050101.wiff

Date Analyzed: 06-JAN-10 16:47

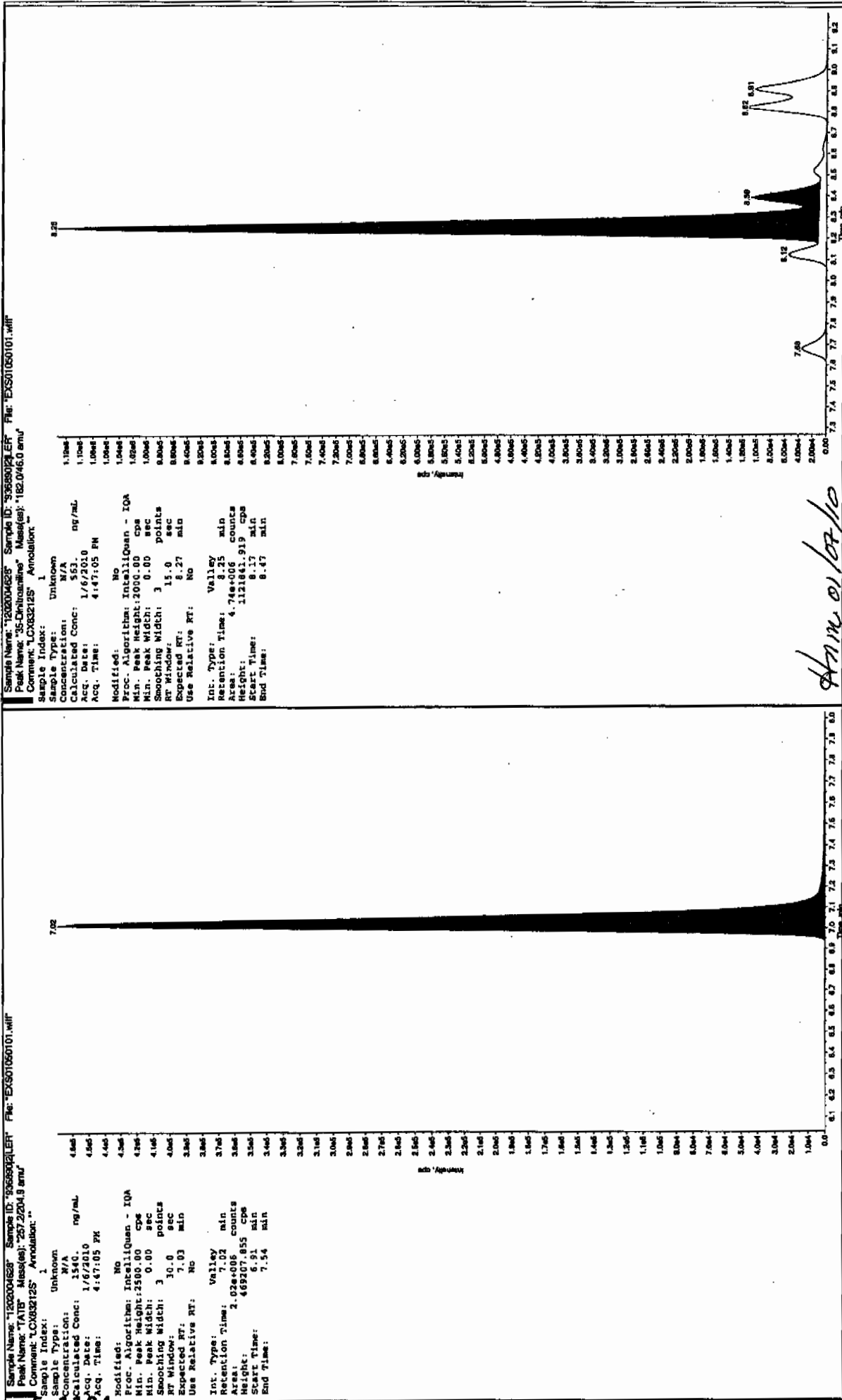
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	15400	
59229-75-3	2,6-Diamino-4-nitrotoluene	3660	
618-87-1	3,5-Dinitroaniline	5310	
6629-29-4	2,4-Diamino-6-nitrotoluene	3820	
78-30-8	tris(o-cresyl) phosphate	5330	

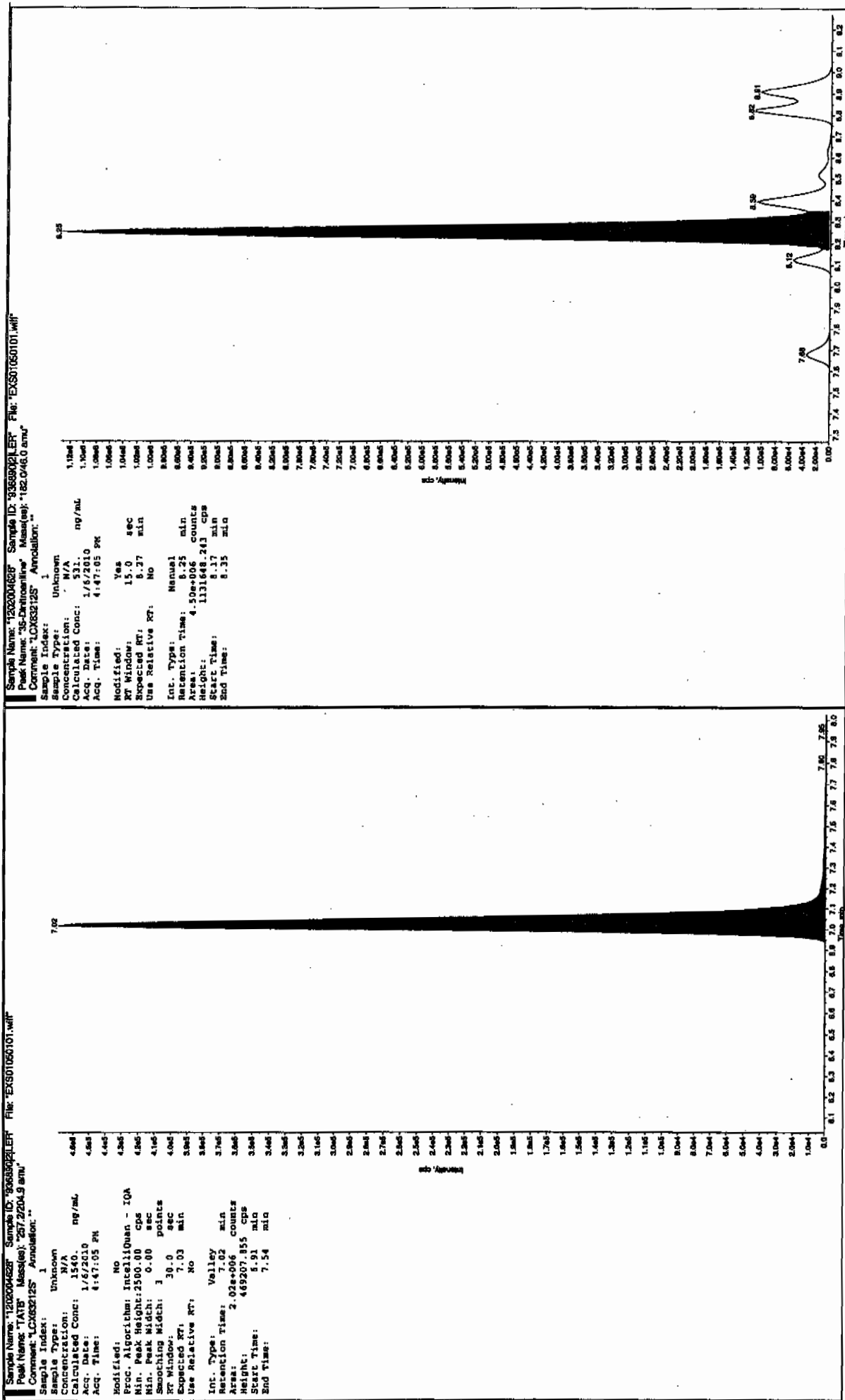
*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

01/14/10
2010
2010
2010



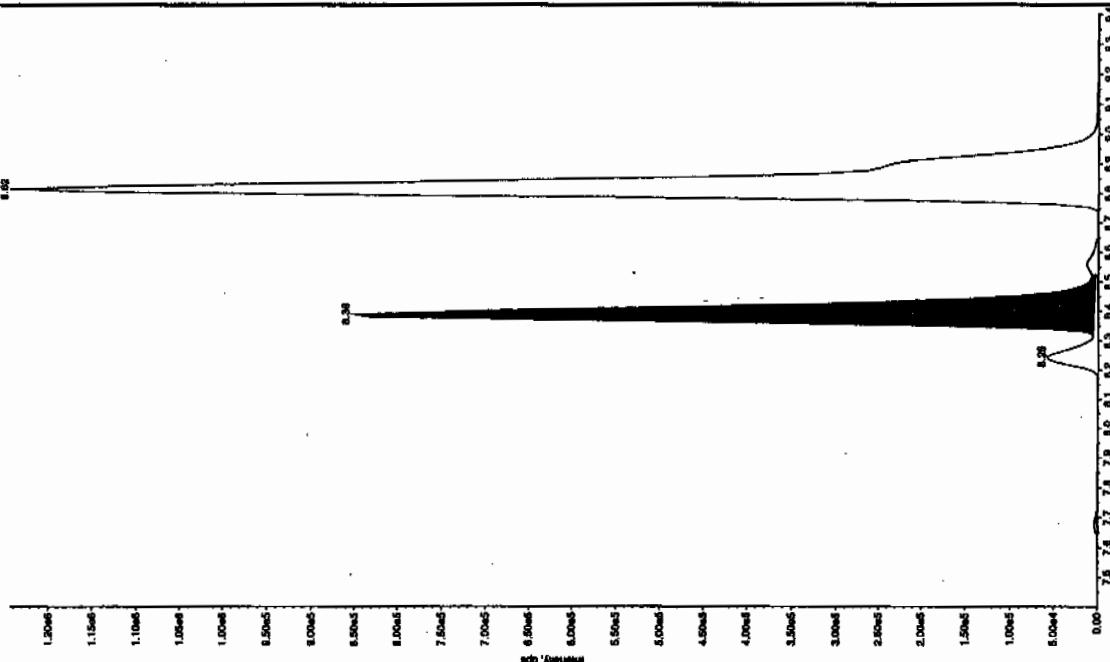
2/16/11
2/16/11
2/16/11



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

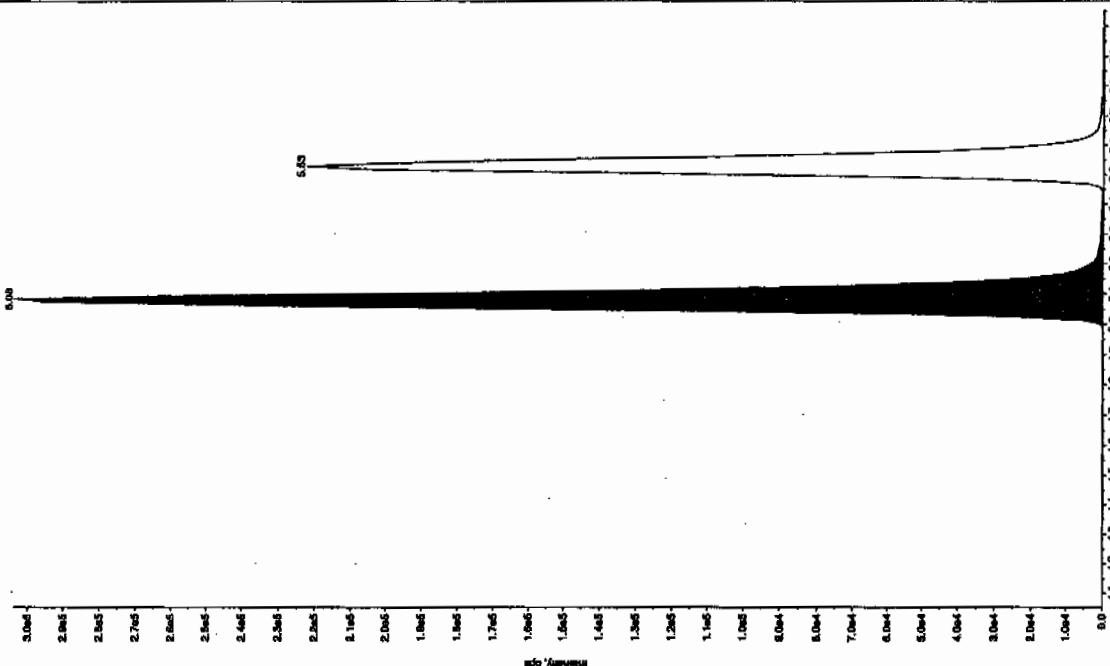
Sample Name: "122004628" Sample ID: "33889021.ER" File: "EX501050101.wf"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1751.9 amu"
 Comment: "LC8032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 257 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 4:47:05 PM
 Acq. Time: 4:47:05 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.39 min
 Area: 3.20e+006 counts
 Height: 84932.028 cps
 Start Time: 8.32 min
 End Time: 8.53 min

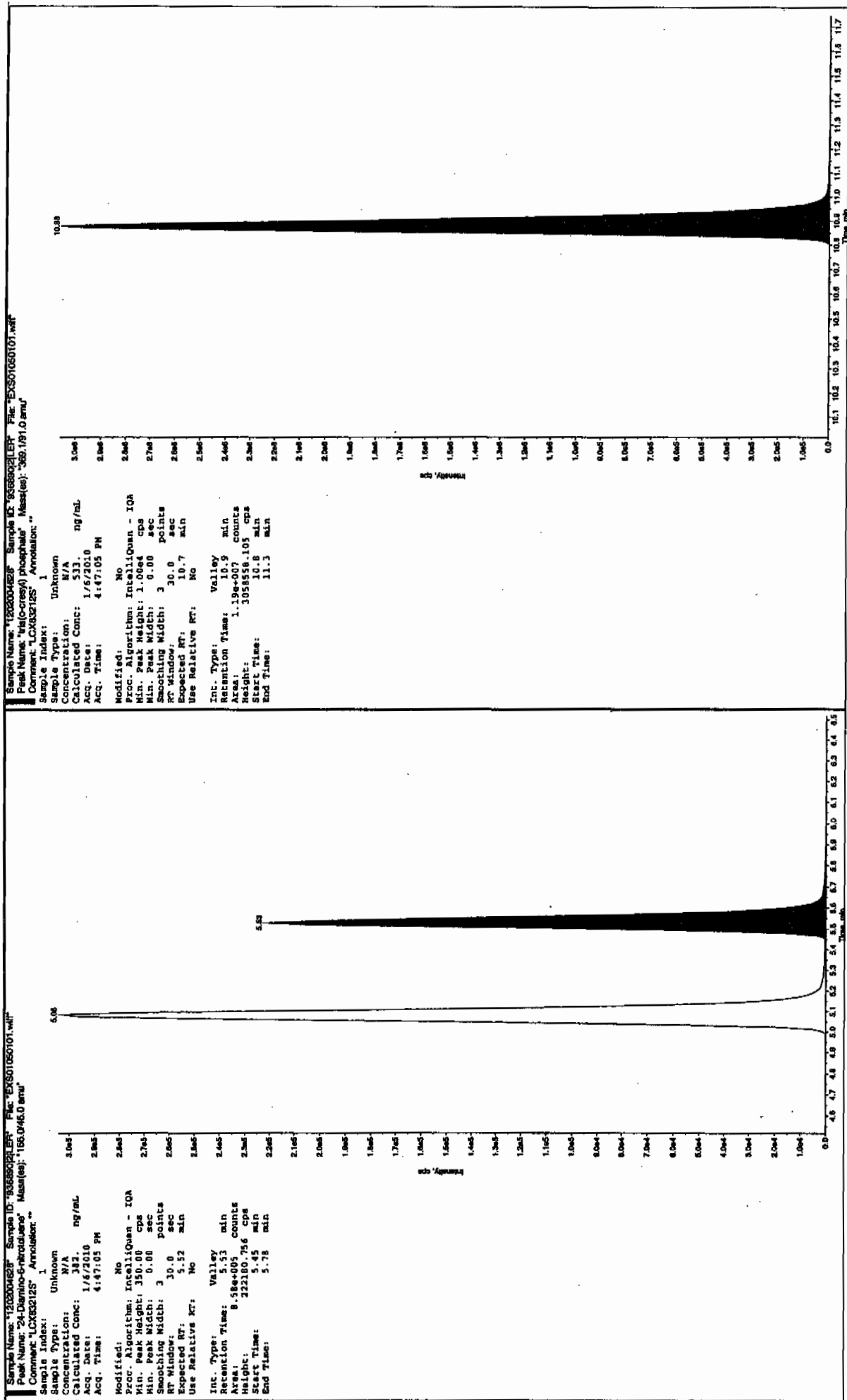


Sample Name: "122004628" Sample ID: "33889021.ER" File: "EX501050101.wf"
 Peak Name: "26-Dinitro-4-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LC8032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 346 ng/mL
 Calculated Conc: 1/6/2010
 Acq. Date: 4:47:05 PM
 Acq. Time: 4:47:05 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.05 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.08 min
 Area: 1.25e+006 counts
 Height: 304036.011 cps
 Start Time: 4.97 min
 End Time: 5.34 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLCClient Sample ID: RE12-10-7288(243490001MSD)Lab Code: GELGEL Job No (SDG) 10-1036Matrix: SOILGEL Sample ID: 1202004629Sample Amount 2Moisture: 9.2Amount Units gDate Received: 23-DEC-09Extraction Type SonicationExtraction Batch ID: 936888Concentrated Extract Volume (mL) 10Date Extracted: 30-DEC-09Dilution Factor: 2Injection Volume (uL): 50GEL data file: EXP0108141aDate Analyzed: 11-JAN-10 14:06Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4970	
121-14-2	2,4-Dinitrotoluene	5330	
121-82-4	RDX	5130	
19406-51-0	4-Amino-2,6-dinitrotoluene	4910	
2691-41-0	HMX	4980	
35572-78-2	2-Amino-4,6-dinitrotoluene	5990	
479-45-8	Tetryl	2350	
606-20-2	2,6-Dinitrotoluene	4800	
78-11-5	PETN	5240	
88-72-2	o-Nitrotoluene	4360	
98-95-3	Nitrobenzene	4260	
99-08-1	m-Nitrotoluene	4280	
99-35-4	1,3,5-Trinitrobenzene	4730	
99-65-0	m-Dinitrobenzene	4900	
99-99-0	p-Nitrotoluene	4560	

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\010810expA2.qld, Time: Tue Jan 12 10:23:04 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0108141a

Date: 11-Jan-2010

Time: 14:06:51

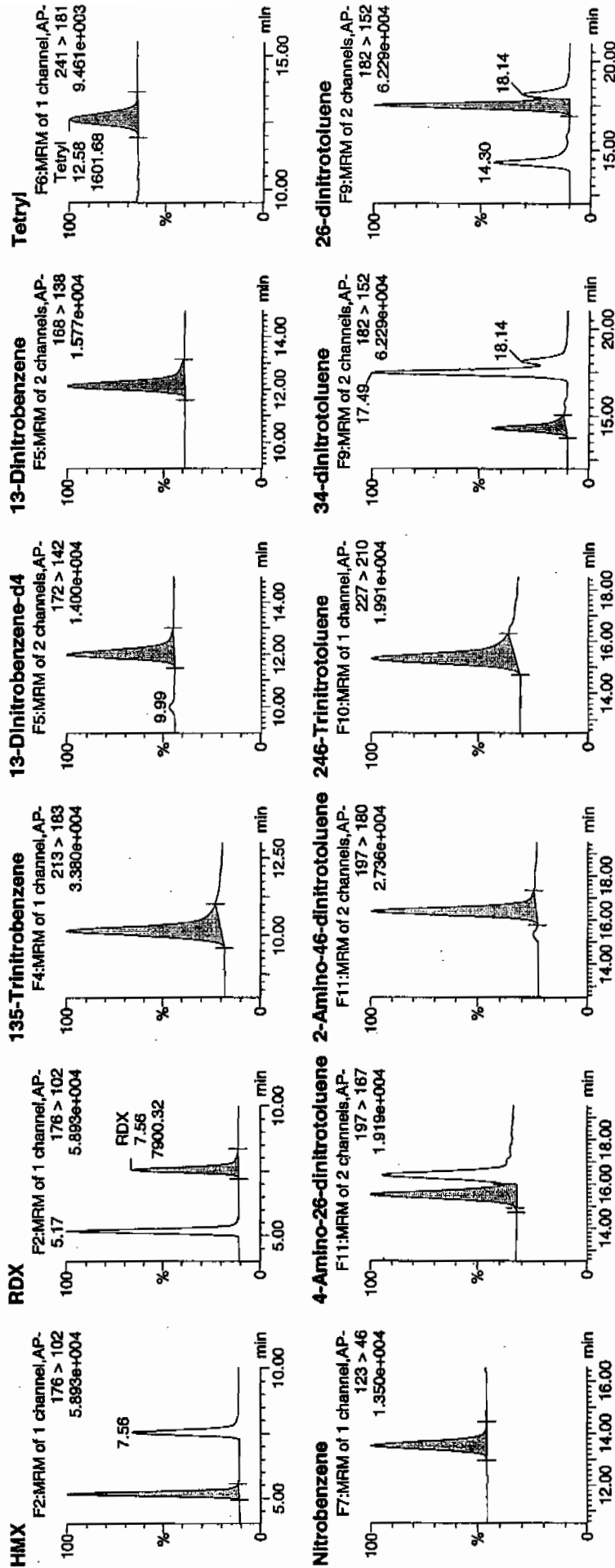
ID: 1202004629

Vial: 3:1,E

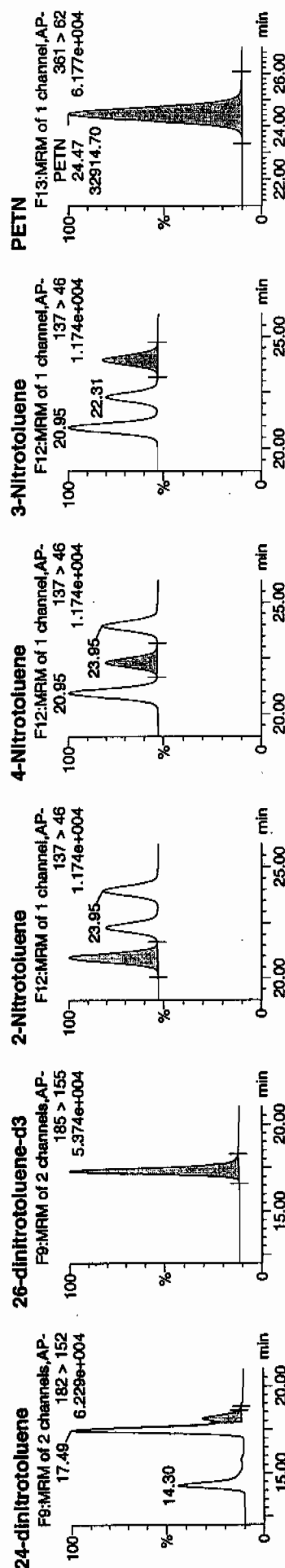
12/10

243490001 MS / 21

LAU / 93690 / 802



8/11/10



ID	Name	Location	Accession Number	Date Recd.	Quantity	Unit	Weight (g)	Volume (ml)	Conc. (mg/ml)	Analysis Date	Analysis Result
12020004629	HMX		178 > 102	5.17	10355.542	3147.692	10355.542	1644.942	bb	12-Jan-10	10:06:09
12020004629	RDX		176 > 102	7.56	7900.318	3147.692	7900.318	1254.938	bb	12-Jan-10	10:06:09
12020004628	135-Trinitrobenzene		213 > 183	10.14	10288.441	3147.692	10288.441	1634.283	bb	12-Jan-10	10:06:09
12020004629	13-Dinitrobenzene-d4		172 > 142	12.00	3147.692	3147.692	3147.692	1634.283	bb	12-Jan-10	10:06:09
12020004629	13-Dinitrobenzene		168 > 138	12.14	3785.954	3147.692	3785.954	601.386	bb	12-Jan-10	10:06:09
12020004629	Tetryl		241 > 181	12.58	1601.682	3147.692	1601.682	254.422	bb	12-Jan-10	10:06:09
12020004629	Nitrobenzene		123 > 46	13.54	2647.667	3147.692	2647.667	420.573	bb	12-Jan-10	10:06:09
12020004629	4-Amino-2,6-dinitrotoluene		197 > 167	15.53	5545.068	20009.775	5545.068	138.559	MM	12-Jan-10	10:06:09
12020004629	2-Amino-4,6-dinitrotoluene		197 > 180	16.41	8833.835	20009.775	8833.835	220.738	bb	12-Jan-10	10:06:09
12020004629	2,4,6-Trinitrotoluene		227 > 210	15.35	6434.790	20009.775	6434.790	160.791	bb	12-Jan-10	10:06:09
12020004629	34-dinitrotoluene		182 > 152	14.30	8664.290	20009.775	8664.290	215.501	bb	12-Jan-10	10:06:09
12020004628	26-dinitrotoluene		182 > 152	17.49	21738.932	20009.775	21738.932	543.208	MM	12-Jan-10	10:16:26
12020004629	24-dinitrotoluene		182 > 152	18.14	5197.470	20009.775	5197.470	129.873	MM	12-Jan-10	10:22:24
12020004629	26-dinitrotoluene-d3		185 > 155	17.31	20009.775	20009.775	20009.775	20009.775	bb	12-Jan-10	10:22:24
12020004629	2-Nitrotoluene		137 > 46	20.95	2698.214	20009.775	2698.214	67.422	bb	12-Jan-10	10:22:24
12020004629	4-Nitrotoluene		137 > 46	22.31	1541.105	20009.775	1541.105	38.509	bb	12-Jan-10	10:22:24
12020004629	3-Nitrotoluene		137 > 46	23.95	1717.517	20009.775	1717.517	42.917	bb	12-Jan-10	10:22:24
12020004629	PETN		361 > 62	24.47	32914.699	20009.775	32914.699	822.465	bb	12-Jan-10	10:22:24

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7288(243490001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1036

Matrix: SOIL

GEL Sample ID: 1202004629

Sample Amount 2

Moisture: 9.2

Amount Units g

Date Received: 23-DEC-09

Extraction Type Sonication

Extraction Batch ID: 936888

Concentrated Extract Volume (mL) 10

Date Extracted: 30-DEC-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01050102.wiff

Date Analyzed: 06-JAN-10 17:02

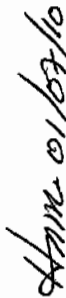
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7180	
59229-75-3	2,6-Diamino-4-nitrotoluene	4380	
618-87-1	3,5-Dinitroaniline	5620	
6629-29-4	2,4-Diamino-6-nitrotoluene	4210	
78-30-8	tris(o-cresyl) phosphate	5200	

*Concentration =

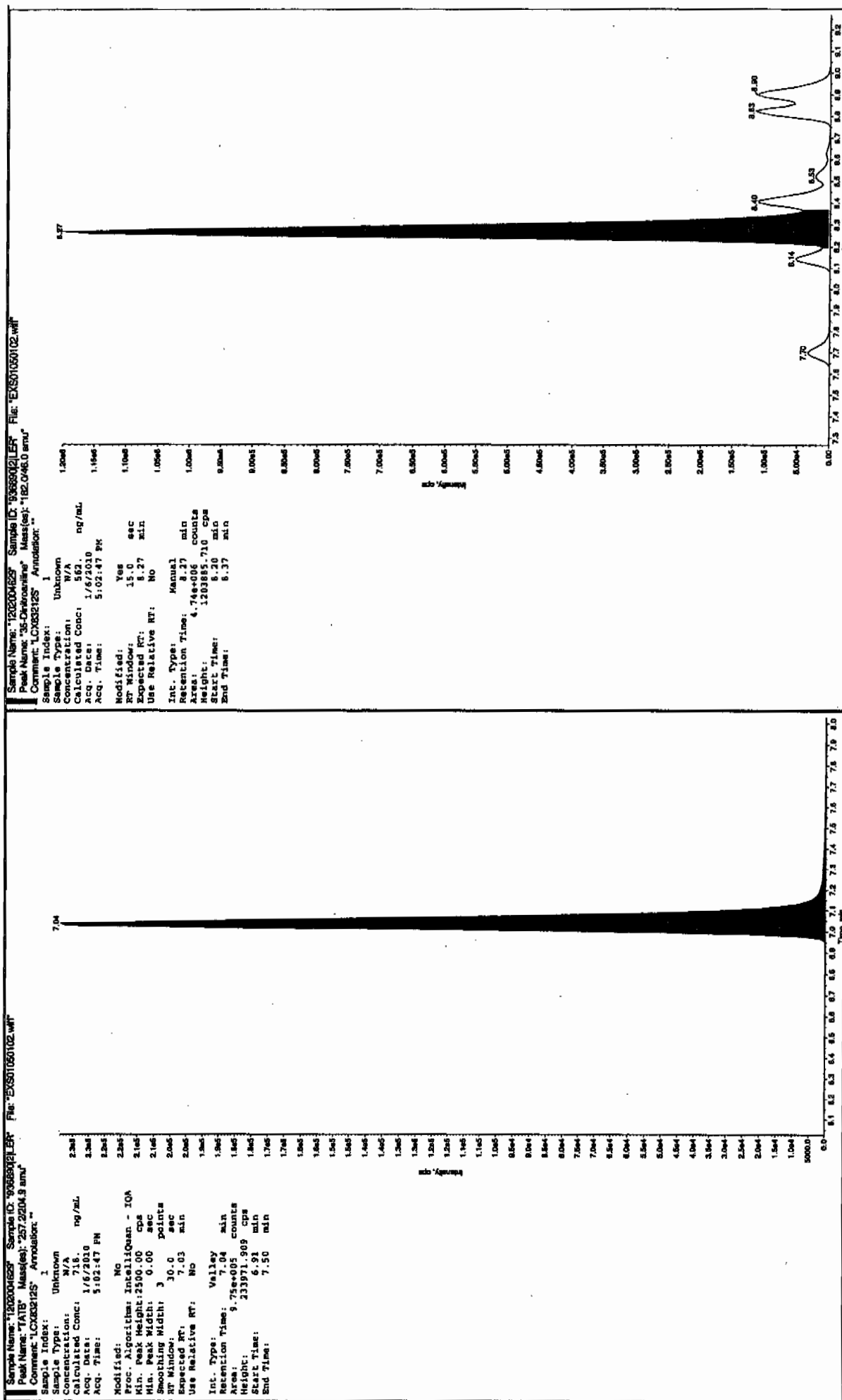
Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		<u>Sample Amount</u>		Factor

01/12/2008

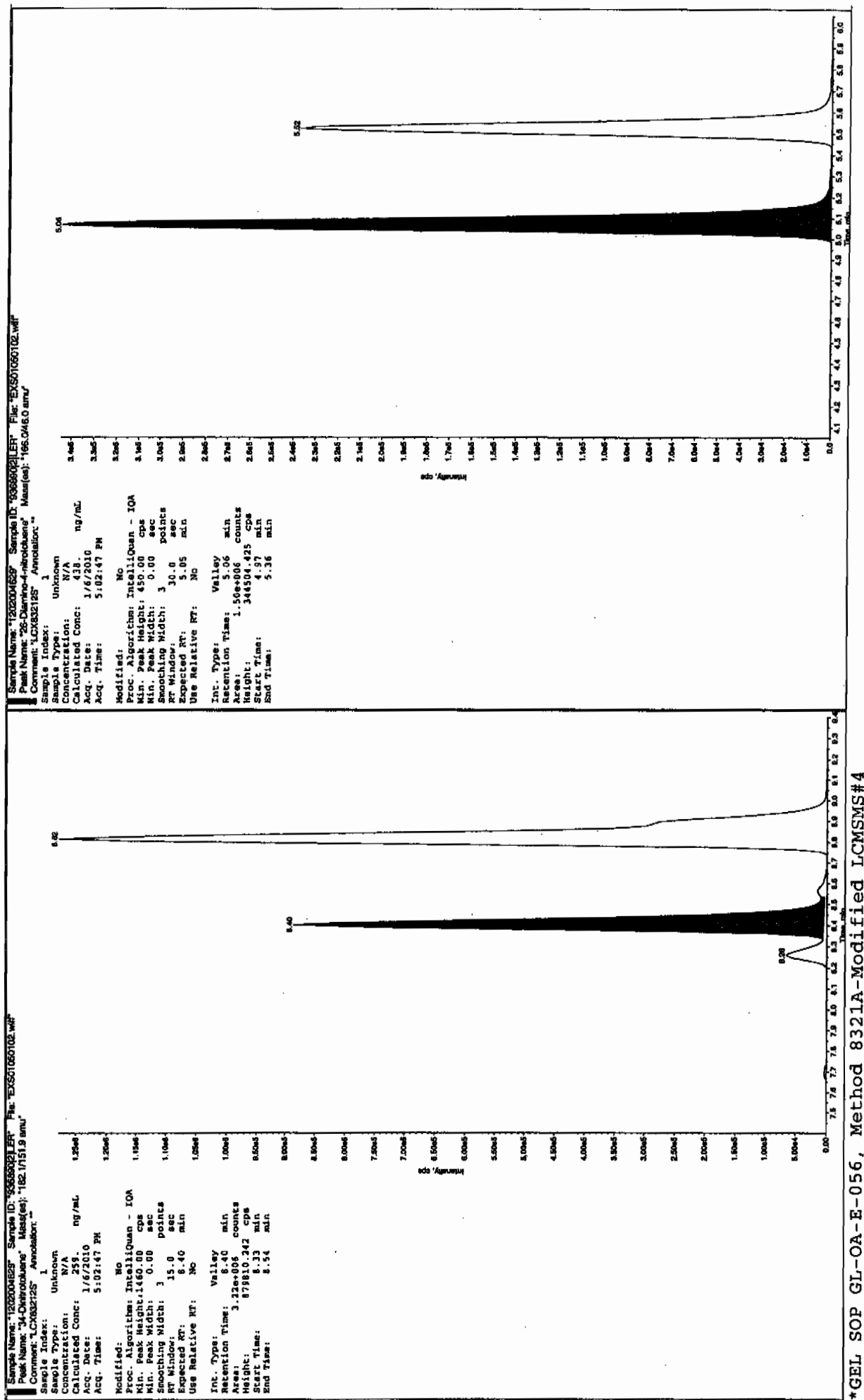


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

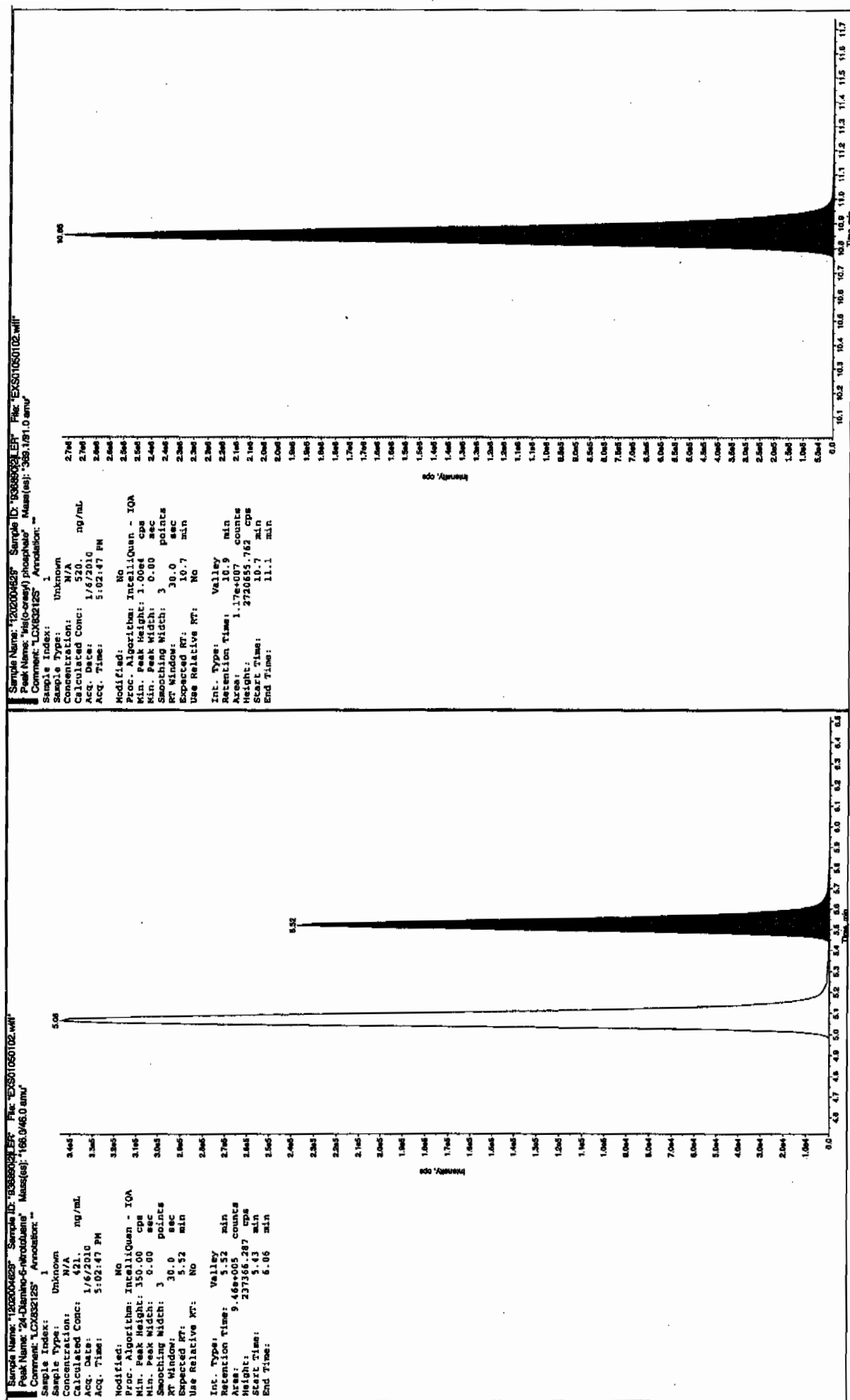
01/11/10
2380
2380
2380



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

MISCELLANEOUS DATA

Prep Logbook

Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 936888 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:
1202004626 MB	30-DEC-2009 14:57:37	2	10	5	LCS	1202004627	8321 Explosives LCS	DX091127-03	.1	mL	Final Solvent: ACN
1202004627 LCS	30-DEC-2009 14:57:37	2	10	5	LCS	1202004627	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
243490001	30-DEC-2009 14:57:37	2	10	5	MS	1202004628	8321 Explosives LCS	DX091127-03	.1	mL	
1202004628 MS (243490001)	30-DEC-2009 14:57:37	2	10	5	MS	1202004628	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
1202004629 MSD (243490001)	30-DEC-2009 14:57:37	2	10	5	MSD	1202004629	8321 Explosives LCS	DX091127-03	.1	mL	
243490002	30-DEC-2009 14:57:37	2	10	5	MSD	1202004629	8321 LANL Explosives Mix 10mg/L	UX091117-03.1	1	mL	
243490003	30-DEC-2009 14:57:37	2	10	5	SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DX091223-02	.05	mL	
243490004	30-DEC-2009 14:57:37	2	10	5							
243490005	30-DEC-2009 14:57:37	2	10	5							
243490006	30-DEC-2009 14:57:37	2	10	5							
243490007	30-DEC-2009 14:57:37	2	10	5							
243543001	30-DEC-2009 14:57:37	2	10	5							

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 01/08/10

Extr. Injection Volume: 50uL

Sequence Number: 010810expA

Initial Calibration Date: 01/08/10

Method: SW846 8321A-Modified

Int. Std.: UXX091201-01.4

Mobile Phase Lot#: 1250684, 1236350

Standard-Samp Reagent Lot#: 1246693, 1246195

Reviewed BY: *shane*

Date: 01/12/10

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100108-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0108001a	XIBLK01	MAP	1/8/10 17:15			1		USE	B
EXP0108002a	XIBLK01	MAP	1/8/10 17:44			1		USE	B
EXP0108003a	WXXICAL-01	MAP	1/8/10 18:14			1		USE	I
EXP0108004a	WXXICAL-02	MAP	1/8/10 18:43			1		USE	I
EXP0108005a	WXXICAL-03	MAP	1/8/10 19:13			1		USE	I
EXP0108006a	WXXICAL-04	MAP	1/8/10 19:42			1		USE	I
EXP0108007a	WXXICAL-05	MAP	1/8/10 20:12			1		USE	I
EXP0108008a	WXXICAL-06	MAP	1/8/10 20:41			1		USE	I
EXP0108009a	XIBLK02	MAP	1/8/10 21:11			1		USE	B
EXP0108010a	WXXICV	MAP	1/8/10 21:40			1		USE	C
EXP0108011a	XIBLK03	MAP	1/8/10 22:10			1		USE	B
EXP0108012a	WXXCRI	MAP	1/8/10 22:39			1		USE	C
EXP0108013a	1202005625	MAP	1/8/10 23:09	937041	10-1073	2	LANL	USE	S
EXP0108014a	243519005	MAP	1/8/10 23:38	937041	10-1074	2	LANL	USE	S
EXP0108015a	243519007	MAP	1/9/10 0:08	937041	10-1074	2	LANL	USE	S
EXP0108016a	243519010	MAP	1/9/10 0:37	937041	10-1074	2	LANL	USE	S
EXP0108017a	243519011	MAP	1/9/10 1:07	937041	10-1074	2	LANL	USE	S
EXP0108018a	WXXCCV	MAP	1/9/10 1:36			1		USE	C
EXP0108019a	XIBLK04	MAP	1/9/10 2:05			1		USE	B
EXP0108020a	WXXCRI	MAP	1/9/10 2:35			1		USE	C
EXP0108021a	1201998993	MAP	1/9/10 3:04	934323	Various	2	LANL	USE	S
EXP0108022a	1201998994	MAP	1/9/10 3:34	934323	Various	2	LANL	USE	S
EXP0108023a	243012005	MAP	1/9/10 4:03	934323	10-937	2	LANL	USE	S
EXP0108024a	243016003	MAP	1/9/10 4:33	934323	10-932	2	LANL	USE	S
EXP0108025a	1201998995	MAP	1/9/10 5:02	934323	10-932	2	LANL	USE	S
EXP0108026a	1201998996	MAP	1/9/10 5:32	934323	10-932	2	LANL	USE	S
EXP0108027a	243016007	MAP	1/9/10 6:01	934323	10-932	2	LANL	USE	S
EXP0108028a	WXXCCV	MAP	1/9/10 6:31			1		USE	C
EXP0108029a	XIBLK05	MAP	1/9/10 7:00			1		USE	B
EXP0108030a	WXXCRI	MAP	1/9/10 7:30			1		USE	C
EXP0108031a	1202005117	MAP	1/9/10 7:59	937035	10-1070	2	LANL	USE	S

EXP0108032a	1202005118	MAP	1/9/10 8:29	937035	10-1070	2	LANL	USE	S
EXP0108033a	243510002	MAP	1/9/10 8:58	937035	10-1070	2	LANL	USE	S
EXP0108034a	1202005119	MAP	1/9/10 9:28	937035	10-1070	2	LANL	USE	S
EXP0108035a	1202005120	MAP	1/9/10 9:57	937035	10-1070	2	LANL	USE	S
EXP0108036a	243510003	MAP	1/9/10 10:27	937035	10-1070	2	LANL	USE	S
EXP0108037a	243510004	MAP	1/9/10 10:56	937035	10-1070	2	LANL	USE	S
EXP0108038a	243510005	MAP	1/9/10 11:26	937035	10-1070	2	LANL	USE	S
EXP0108039a	243510006	MAP	1/9/10 11:55	937035	10-1070	2	LANL	USE	S
EXP0108040a	243510007	MAP	1/9/10 12:25	937035	10-1070	2	LANL	USE	S
EXP0108041a	WXXCCV	MAP	1/9/10 12:54			1		USE	C
EXP0108042a	XIBLK06	MAP	1/9/10 13:24			1		USE	B
EXP0108043a	WXXCRI	MAP	1/9/10 13:53			1		USE	C
EXP0108044a	243510008	MAP	1/9/10 14:23	937035	10-1070	2	LANL	USE	S
EXP0108045a	243510009	MAP	1/9/10 14:53	937035	10-1070	2	LANL	USE	S
EXP0108046a	243510010	MAP	1/9/10 15:22	937035	10-1070	2	LANL	USE	S
EXP0108047a	243510011	MAP	1/9/10 15:51	937035	10-1070	2	LANL	USE	S
EXP0108048a	243510012	MAP	1/9/10 16:21	937035	10-1070	2	LANL	USE	S
EXP0108049a	243510013	MAP	1/9/10 16:50	937035	10-1070	2	LANL	USE	S
EXP0108050a	243510014	MAP	1/9/10 17:20	937035	10-1070	2	LANL	USE	S
EXP0108051a	243510015	MAP	1/9/10 17:49	937035	10-1070	2	LANL	USE	S
EXP0108052a	243510016	MAP	1/9/10 18:19	937035	10-1070	2	LANL	USE	S
EXP0108053a	243510017	MAP	1/9/10 18:48	937035	10-1070	2	LANL	USE	S
EXP0108054a	WXXCCV	MAP	1/9/10 19:18			1		USE	C
EXP0108055a	XIBLK07	MAP	1/9/10 19:47			1		USE	B
EXP0108056a	WXXCRI	MAP	1/9/10 20:17			1		USE	C
EXP0108057a	243510018	MAP	1/9/10 20:47	937035	10-1070	2	LANL	USE	S
EXP0108058a	XIBLK08	MAP	1/9/10 21:16			1		USE	B
EXP0108059a	1202006213	MAP	1/9/10 21:46	937556	Various	2	LANL	USE	S
EXP0108060a	1202006214	MAP	1/9/10 22:16	937556	Various	2	LANL	USE	S
EXP0108061a	243611001	MAP	1/9/10 22:45	937556	10-1096	2	LANL	USE	S
EXP0108062a	1202006215	MAP	1/9/10 23:15	937556	10-1096	2	LANL	USE	S
EXP0108063a	1202006216	MAP	1/9/10 23:44	937556	10-1096	2	LANL	USE	S
EXP0108064a	243611002	MAP	1/10/10 0:14	937556	10-1096	2	LANL	USE	S
EXP0108065a	243611003	MAP	1/10/10 0:44	937556	10-1096	2	LANL	USE	S
EXP0108066a	WXXCCV	MAP	1/10/10 1:13			1		USE	C
EXP0108067a	XIBLK09	MAP	1/10/10 1:43			1		USE	B
EXP0108068a	WXXCRI	MAP	1/10/10 2:12			1		USE	C
EXP0108069a	243615001	MAP	1/10/10 2:42	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108070a	243615002	MAP	1/10/10 3:11	937556	10-1098-1	2	LANL	DUSE-RA	S

EXP0108071a	243615003	MAP	1/10/10 3:41	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108072a	243615004	MAP	1/10/10 4:10	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108073a	243615005	MAP	1/10/10 4:40	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108074a	243615006	MAP	1/10/10 5:09	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108075a	243615007	MAP	1/10/10 5:39	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108076a	243615008	MAP	1/10/10 6:08	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108077a	243615009	MAP	1/10/10 6:38	937556	10-1098-1	2	LANL	DUSE-RA	S
EXP0108078a	WXXCCV X	MAP	1/10/10 7:07			1		DUSE	C
EXP0108079a	XIBLK10	MAP	1/10/10 7:37			1		USE	B
EXP0108080a	WXXCRIX	MAP	1/10/10 8:06			1		DUSE	C
EXP0108081a	1202004626	MAP	1/10/10 8:36	936890	Various	2	LANL	DUSE-RA	S
EXP0108082a	1202004627	MAP	1/10/10 9:05	936890	Various	2	LANL	DUSE-RA	S
EXP0108083a	243490001	MAP	1/10/10 9:35	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108084a	1202004628	MAP	1/10/10 10:04	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108085a	1202004629	MAP	1/10/10 10:34	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108086a	243490002	MAP	1/10/10 11:03	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108087a	243490003	MAP	1/10/10 11:33	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108088a	243490004	MAP	1/10/10 12:02	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108089a	243490005	MAP	1/10/10 12:32	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108090a	243490006	MAP	1/10/10 13:01	936890	10-1036	2	LANL	DUSE-RA	S
EXP0108091a	WXXCCV	MAP	1/10/10 13:31			1		USE	C
EXP0108092a	XIBLK11	MAP	1/10/10 14:00			1		USE	B
EXP0108093a	WXXCRIX	MAP	1/10/10 14:30			1		USE	C
EXP0108094a	243490007	MAP	1/10/10 14:59	936890	10-1036	2	LANL	USE	S
EXP0108095a	243543001	MAP	1/10/10 15:29	936890	10-1081	2	LANL	USE	S
EXP0108096a	XIBLK11	MAP	1/10/10 15:58			1		USE	B
EXP0108097a	1202005106	MAP	1/10/10 16:28	937031	Various	2	LANL	USE	S
EXP0108098a	1202005107	MAP	1/10/10 16:57	937031	Various	2	LANL	USE	S
EXP0108099a	243457001	MAP	1/10/10 17:27	937031	10-1038	2	LANL	USE	S
EXP0108100a	1202005108	MAP	1/10/10 17:56	937031	10-1038	2	LANL	USE	S
EXP0108101a	1202005109	MAP	1/10/10 18:26	937031	10-1038	2	LANL	USE	S
EXP0108102a	243457002	MAP	1/10/10 18:55	937031	10-1038	2	LANL	USE	S
EXP0108103a	243457003	MAP	1/10/10 19:25	937031	10-1038	2	LANL	USE	S
EXP0108104a	WXXCCV	MAP	1/10/10 19:54			1		USE	C
EXP0108105a	XIBLK12	MAP	1/10/10 20:24			1		USE	B
EXP0108106a	WXXCRIX	MAP	1/10/10 20:53			1		USE	C
EXP0108107a	243457004	MAP	1/10/10 21:23	937031	10-1038	2	LANL	USE	S
EXP0108108a	243502001	MAP	1/10/10 21:52	937031	10-1065	2	LANL	USE	S
EXP0108109a	243502002	MAP	1/10/10 22:22	937031	10-1065	2	LANL	USE	S

EXP0108110a	243502003	MAP	1/10/10 22:51	937031	10-1065	2	LANL	USE	S
EXP0108111a	243502004	MAP	1/10/10 23:21	937031	10-1065	2	LANL	USE	S
EXP0108112a	243502005	MAP	1/10/10 23:50	937031	10-1065	2	LANL	USE	S
EXP0108113a	243502006	MAP	1/11/10 0:20	937031	10-1065	2	LANL	USE	S
EXP0108114a	243502007	MAP	1/11/10 0:49	937031	10-1065	2	LANL	USE	S
EXP0108115a	243502008	MAP	1/11/10 1:19	937031	10-1065	2	LANL	USE	S
EXP0108116a	WXXCCV	MAP	1/11/10 1:48			1		USE	C
EXP0108117a	XIBLK13	MAP	1/11/10 2:18			1		USE	B
EXP0108118a	WXXCRI	MAP	1/11/10 2:48			1		USE	C
EXP0108119a	243509001	MAP	1/11/10 3:17	937031	10-1069	2	LANL	USE	S
EXP0108120a	243509002	MAP	1/11/10 3:47	937031	10-1069	2	LANL	USE	S
EXP0108121a	243509003	MAP	1/11/10 4:16	937031	10-1069	2	LANL	USE	S
EXP0108122a	WXXCCV	MAP	1/11/10 4:46			1		USE	C
EXP0108123a	XIBLK14	MAP	1/11/10 5:15			1		USE	B
EXP0108124a	WXXCRI	MAP	1/11/10 5:45			1		USE	C
EXP0108125a	243615001	MAP	1/11/10 6:14	937556	10-1098-1	2	LANL	USE	S
EXP0108126a	243615002	MAP	1/11/10 6:44	937556	10-1098-1	2	LANL	USE	S
EXP0108127a	243615003	MAP	1/11/10 7:13	937556	10-1098-1	2	LANL	USE	S
EXP0108128a	243615004	MAP	1/11/10 7:43	937556	10-1098-1	2	LANL	USE	S
EXP0108129a	243615005	MAP	1/11/10 8:12	937556	10-1098-1	2	LANL	USE	S
EXP0108130a	243615006	MAP	1/11/10 8:42	937556	10-1098-1	2	LANL	USE	S
EXP0108131a	243615007	MAP	1/11/10 9:11	937556	10-1098-1	2	LANL	USE	S
EXP0108132a	243615008	MAP	1/11/10 9:41	937556	10-1098-1	2	LANL	USE	S
EXP0108133a	243615009	MAP	1/11/10 10:10	937556	10-1098-1	2	LANL	USE	S
EXP0108134a	WXXCCV	MAP	1/11/10 10:40			1		USE	C
EXP0108135a	XIBLK15	MAP	1/11/10 11:09			1		USE	B
EXP0108136a	WXXCRI	MAP	1/11/10 11:39			1		USE	C
EXP0108137a	1202004626	MAP	1/11/10 12:08	936890	Various	2	LANL	USE	S
EXP0108138a	1202004627	MAP	1/11/10 12:38	936890	Various	2	LANL	USE	S
EXP0108139a	243490001	MAP	1/11/10 13:07	936890	10-1036	2	LANL	USE	S
EXP0108140a	1202004628	MAP	1/11/10 13:37	936890	10-1036	2	LANL	USE	S
EXP0108141a	1202004629	MAP	1/11/10 14:06	936890	10-1036	2	LANL	USE	S
EXP0108142a	243490002	MAP	1/11/10 14:36	936890	10-1036	2	LANL	USE	S
EXP0108143a	243490003	MAP	1/11/10 15:05	936890	10-1036	2	LANL	USE	S
EXP0108144a	243490004	MAP	1/11/10 15:35	936890	10-1036	2	LANL	USE	S
EXP0108145a	243490005	MAP	1/11/10 16:04	936890	10-1036	2	LANL	USE	S
EXP0108146a	243490006	MAP	1/11/10 16:34	936890	10-1036	2	LANL	USE	S
EXP0108147a	WXXCCV	MAP	1/11/10 17:03			1		USE	C
EXP0108148a	XIBLK16	MAP	1/11/10 17:33			1		USE	B

EXP0108149a	WXXCRI	MAP	1/11/10 18:02	937031	10-1065	1	LANL	USE	C
EXP0108150a	243502006	MAP	1/11/10 18:32	937031	10-1069	10	LANL	USE	S
EXP0108151a	243509002	MAP	1/11/10 19:01			10		USE	S
EXP0108152a	XIBLK17	MAP	1/11/10 19:31			1		USE	B
EXP0108153a	1201999937	MAP	1/11/10 20:00	934771	10-952	2	LANL	DUSE-RA	S
EXP0108154a	1201999938	MAP	1/11/10 20:30	934771	10-952	2	LANL	DUSE-RA	S
EXP0108155a	1201999941	MAP	1/11/10 20:59	934771	10-952	2	LANL	DUSE-RA	S
EXP0108156a	243099004	MAP	1/11/10 21:29	934771	10-952	2	LANL	DUSE-RA	S
EXP0108157a	WXXCVC	MAP	1/11/10 21:58			1		USE	C
EXP0108158a	XIBLK18	MAP	1/11/10 22:28			1		USE	B
EXP0108159a	WXXCRI	MAP	1/11/10 22:57			1		USE	C
EXP0108160a	1202000961	MAP	1/11/10 23:27	935214	Various	2	LANL	DUSE-RA	S
EXP0108161a	1202000964	MAP	1/11/10 23:56	935214	Various	2	LANL	DUSE-RA	S
EXP0108162a	243254006	MAP	1/12/10 0:26	935214	10-972	2	LANL	DUSE-RA	S
EXP0108163a	243254011	MAP	1/12/10 0:55	935214	10-972	2	LANL	DUSE-RA	S
EXP0108164a	243257003	MAP	1/12/10 1:25	935214	10-976	2	LANL	DUSE-RA	S
EXP0108165a	1202000962	MAP	1/12/10 1:54	935214	10-976	2	LANL	DUSE-RA	S
EXP0108166a	1202000963	MAP	1/12/10 2:24	935214	10-976	2	LANL	DUSE-RA	S
EXP0108167a	243257005	MAP	1/12/10 2:53	935214	10-976	2	LANL	DUSE-RA	S
EXP0108168a	WXXCVC	MAP	1/12/10 3:23			1		USE	C
EXP0108169a	XIBLK19	MAP	1/12/10 3:52			1		USE	B
EXP0108170a	WXXCRI	MAP	1/12/10 4:22			1		USE	C
EXP0108171a	1202000990	MAP	1/12/10 4:51	935230	Various	2	LANL	DUSE-RA	S
EXP0108172a	1202000991	MAP	1/12/10 5:21	935230	Various	2	LANL	DUSE-RA	S
EXP0108173a	1202000994	MAP	1/12/10 5:50	935230	Various	2	LANL	DUSE-RA	S
EXP0108174a	243283004	MAP	1/12/10 6:20	935230	10-994	2	LANL	DUSE-RA	S
EXP0108175a	243284005	MAP	1/12/10 6:49	935230	10-997	2	LANL	DUSE-RA	S
EXP0108176a	243284012	MAP	1/12/10 7:19	935230	10-997	2	LANL	DUSE-RA	S
EXP0108177a	WXXCVC	MAP	1/12/10 7:48			1		USE	C
EXP0108178a	XIBLK20	MAP	1/12/10 8:18			1		USE	B
EXP0108179a	WXXCRI	MAP	1/12/10 8:47			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 01/05/10

Method: 8321A-Modified

Extr. Injection Volume: 10uL

Int. Std.: N/A

Sequence Number: 010510exs

Mobile Phase Lot#: 1236350, 1246467

Initial Calibration Date: 010510 Standard-Samp Reagent Lot#: 1233976, 1246693

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100105-26

Reviewed By: *[Signature]*
Date: 2/1/07/10

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS01050001.wiff	XIBLK01	LER	1/5/2010 14:30			1		USE	B
EXS01050002.wiff	XIBLK01	LER	1/5/2010 14:46			1		USE	B
EXS01050003.wiff	WXXICAL-19	LER	1/5/2010 15:01			1		USE	I
EXS01050004.wiff	WXXICAL-20	LER	1/5/2010 15:17			1		USE	I
EXS01050005.wiff	WXXICAL-21	LER	1/5/2010 15:33			1		USE	I
EXS01050006.wiff	WXXICAL-22	LER	1/5/2010 15:49			1		USE	I
EXS01050007.wiff	WXXICAL-23	LER	1/5/2010 16:04			1		USE	I
EXS01050008.wiff	WXXICAL-24	LER	1/5/2010 16:20			1		USE	I
EXS01050009.wiff	WXXICAL-25	LER	1/5/2010 16:36			1		USE	I
EXS01050010.wiff	XIBLK02	LER	1/5/2010 16:51			1		USE	I
EXS01050011.wiff	WXXICV	LER	1/5/2010 17:07			1		USE	B
EXS01050012.wiff	XIBLK03	LER	1/5/2010 17:23			1		USE	C
EXS01050013.wiff	WXXCRI	LER	1/5/2010 17:38			1		USE	B
EXS01050014.wiff	1202005136	LER	1/5/2010 17:54	937046	VARIOUS	2	LANL	USE	C
EXS01050015.wiff	1202005137	LER	1/5/2010 18:10	937046	VARIOUS	2	LANL	USE	S
EXS01050016.wiff	243535001	LER	1/5/2010 18:25	937046	10-1078	2	LANL	USE	S
EXS01050017.wiff	243535002	LER	1/5/2010 18:41	937046	10-1078	2	LANL	USE	S
EXS01050018.wiff	243535003	LER	1/5/2010 18:57	937046	10-1078	2	LANL	USE	S
EXS01050019.wiff	243535004	LER	1/5/2010 19:13	937046	10-1078	2	LANL	USE	S
EXS01050020.wiff	243535005	LER	1/5/2010 19:28	937046	10-1078	2	LANL	USE	S
EXS01050021.wiff	243535006	LER	1/5/2010 19:44	937046	10-1078	2	LANL	USE	S
EXS01050022.wiff	243535007	LER	1/5/2010 20:00	937046	10-1078	2	LANL	USE	S
EXS01050023.wiff	243535008	LER	1/5/2010 20:15	937046	10-1078	2	LANL	USE	S
EXS01050024.wiff	WXXCCV	LER	1/5/2010 20:31			1		USE	C
EXS01050025.wiff	XIBLK04	LER	1/5/2010 20:47			1		USE	B
EXS01050026.wiff	WXXCRI	LER	1/5/2010 21:03			1		USE	C
EXS01050027.wiff	243535009	LER	1/5/2010 21:18	937046	10-1078	2	LANL	USE	S
EXS01050028.wiff	243535010	LER	1/5/2010 21:34	937046	10-1078	2	LANL	USE	S
EXS01050029.wiff	243540001	LER	1/5/2010 21:50	937046	10-1077	2	LANL	USE	S
EXS01050030.wiff	1202005138	LER	1/5/2010 22:05	937046	10-1077	2	LANL	USE	S

EXS01050031.wiff	1202005139	LER	1/5/2010 22:21	937046	10-1077	2	LANL	USE	S
EXS01050032.wiff	243540002	LER	1/5/2010 22:37	937046	10-1077	2	LANL	USE	S
EXS01050033.wiff	243540003	LER	1/5/2010 22:52	937046	10-1077	2	LANL	USE	S
EXS01050034.wiff	243546001	LER	1/5/2010 23:08	937046	10-1083	2	LANL	USE	S
EXS01050035.wiff	243546002	LER	1/5/2010 23:24	937046	10-1083	2	LANL	USE	S
EXS01050036.wiff	243546003	LER	1/5/2010 23:40	937046	10-1083	2	LANL	USE	S
EXS01050037.wiff	WXXCCV	LER	1/5/2010 23:55			1		USE	C
EXS01050038.wiff	XIBLK05	LER	1/6/2010 0:11			1		USE	B
EXS01050039.wiff	WXXCRI	LER	1/6/2010 0:27			1		USE	C
EXS01050040.wiff	1202005126	LER	1/6/2010 0:42	937041	VARIOUS	2	LANL	USE	S
EXS01050041.wiff	1202005127	LER	1/6/2010 0:58	937041	VARIOUS	2	LANL	USE	S
EXS01050042.wiff	243517003	LER	1/6/2010 1:14	937041	10-1073	2	LANL	USE	S
EXS01050043.wiff	243517004	LER	1/6/2010 1:29	937041	10-1073	2	LANL	USE	S
EXS01050044.wiff	243517005	LER	1/6/2010 1:45	937041	10-1073	2	LANL	USE	S
EXS01050045.wiff	243517006	LER	1/6/2010 2:01	937041	10-1073	2	LANL	USE	S
EXS01050046.wiff	243517007	LER	1/6/2010 2:17	937041	10-1073	2	LANL	USE	S
EXS01050047.wiff	243517008	LER	1/6/2010 2:32	937041	10-1073	2	LANL	USE	S
EXS01050048.wiff	1202005624	LER	1/6/2010 2:48	937041	10-1073	2	LANL	USE	S
EXS01050049.wiff	1202005625	LER	1/6/2010 3:04	937041	10-1073	2	LANL	USE	S
EXS01050050.wiff	WXXCCV	LER	1/6/2010 3:19			1		USE	C
EXS01050051.wiff	XIBLK06	LER	1/6/2010 3:35			1		USE	B
EXS01050052.wiff	WXXCRI	LER	1/6/2010 3:51			1		USE	C
EXS01050053.wiff	243517009	LER	1/6/2010 4:07	937041	10-1073	2	LANL	USE	S
EXS01050054.wiff	243519001	LER	1/6/2010 4:22	937041	10-1074	2	LANL	USE	S
EXS01050055.wiff	243519002	LER	1/6/2010 4:38	937041	10-1074	2	LANL	USE	S
EXS01050056.wiff	243519003	LER	1/6/2010 4:54	937041	10-1074	2	LANL	USE	S
EXS01050057.wiff	243519004	LER	1/6/2010 5:09	937041	10-1074	2	LANL	USE	S
EXS01050058.wiff	243519005	LER	1/6/2010 5:25	937041	10-1074	2	LANL	USE	S
EXS01050059.wiff	243519006	LER	1/6/2010 5:41	937041	10-1074	2	LANL	USE	S
EXS01050060.wiff	243519007	LER	1/6/2010 5:56	937041	10-1074	2	LANL	USE	S
EXS01050061.wiff	243519008	LER	1/6/2010 6:12	937041	10-1074	2	LANL	USE	S
EXS01050062.wiff	243519009	LER	1/6/2010 6:28	937041	10-1074	2	LANL	USE	S
EXS01050063.wiff	WXXCCV	LER	1/6/2010 6:44			1		USE	C
EXS01050064.wiff	XIBLK07	LER	1/6/2010 6:59			1		USE	B
EXS01050065.wiff	WXXCRI	LER	1/6/2010 7:15			1		USE	C
EXS01050066.wiff	243519010	LER	1/6/2010 7:31	937041	10-1074	2	LANL	USE	S
EXS01050067.wiff	243519011	LER	1/6/2010 7:46	937041	10-1074	2	LANL	USE	S

EXS01050068.wiff	XIBLK08	LER	1/6/2010 8:02	SCREEN	SOLID	1		USE	B
EXS01050069.wiff	kaolin screen	LER	1/6/2010 8:18			1	O2SI	USE	C
EXS01050070.wiff	WXXCCV	LER	1/6/2010 8:34			1		USE	C
EXS01050071.wiff	XIBLK08	LER	1/6/2010 8:49			1		USE	B
EXS01050072.wiff	WXXCRI	LER	1/6/2010 9:05			1		USE	C
EXS01050073.wiff	1202005106	LER	1/6/2010 9:21	937031	VARIOUS	2	LANL	USE	S
EXS01050074.wiff	1202005107	LER	1/6/2010 9:36	937031	VARIOUS	2	LANL	USE	S
EXS01050075.wiff	243457001	LER	1/6/2010 9:52	937031	10-1038	2	LANL	USE	S
EXS01050076.wiff	1202005108	LER	1/6/2010 10:08	937031	10-1038	2	LANL	USE	S
EXS01050077.wiff	1202005109	LER	1/6/2010 10:24	937031	10-1038	2	LANL	USE	S
EXS01050078.wiff	243457002	LER	1/6/2010 10:39	937031	10-1038	2	LANL	USE	S
EXS01050079.wiff	243457003	LER	1/6/2010 10:55	937031	10-1038	2	LANL	USE	S
EXS01050080.wiff	243457004	LER	1/6/2010 11:11	937031	10-1038	2	LANL	USE	S
EXS01050081.wiff	243502001	LER	1/6/2010 11:26	937031	10-1065	2	LANL	USE	S
EXS01050082.wiff	243502002	LER	1/6/2010 11:42	937031	10-1065	2	LANL	USE	S
EXS01050083.wiff	WXXCCV	LER	1/6/2010 11:58			1		USE	C
EXS01050084.wiff	XIBLK09	LER	1/6/2010 12:13			1		USE	B
EXS01050085.wiff	WXXCRI	LER	1/6/2010 12:29			1		USE	C
EXS01050086.wiff	243502003	LER	1/6/2010 12:45	937031	10-1065	2	LANL	USE	S
EXS01050087.wiff	243502004	LER	1/6/2010 13:01	937031	10-1065	2	LANL	USE	S
EXS01050088.wiff	243502005	LER	1/6/2010 13:16	937031	10-1065	2	LANL	USE	S
EXS01050089.wiff	243502006	LER	1/6/2010 13:32	937031	10-1065	2	LANL	USE	S
EXS01050090.wiff	243502007	LER	1/6/2010 13:48	937031	10-1065	2	LANL	USE	S
EXS01050091.wiff	243502008	LER	1/6/2010 14:03	937031	10-1065	2	LANL	USE	S
EXS01050092.wiff	243509001	LER	1/6/2010 14:19	937031	10-1069	2	LANL	USE	S
EXS01050093.wiff	243509002	LER	1/6/2010 14:35	937031	10-1069	2	LANL	USE	S
EXS01050094.wiff	243509003	LER	1/6/2010 14:50	937031	10-1069	2	LANL	USE	S
EXS01050095.wiff	WXXCCV	LER	1/6/2010 15:06			1		USE	C
EXS01050096.wiff	XIBLK10	LER	1/6/2010 15:28			1		USE	B
EXS01050097.wiff	WXXCRI	LER	1/6/2010 15:44			1		USE	C
EXS01050098.wiff	1202004626	LER	1/6/2010 15:59	936890	VARIOUS	2	LANL	USE	S
EXS01050099.wiff	1202004627	LER	1/6/2010 16:15	936890	VARIOUS	2	LANL	USE	S
EXS01050100.wiff	243490001	LER	1/6/2010 16:31	936890	10-1036	2	LANL	USE	S
EXS01050101.wiff	1202004628	LER	1/6/2010 16:47	936890	10-1036	2	LANL	USE	S
EXS01050102.wiff	1202004629	LER	1/6/2010 17:02	936890	10-1036	2	LANL	USE	S
EXS01050103.wiff	243490002	LER	1/6/2010 17:18	936890	10-1036	2	LANL	USE	S
EXS01050104.wiff	243490003	LER	1/6/2010 17:34	936890	10-1036	2	LANL	USE	S

EXS01050105.wiff	243490004	LER	1/6/2010 17:49	936890	10-1036	2	LANL	USE	S
EXS01050106.wiff	243490005	LER	1/6/2010 18:05	936890	10-1036	2	LANL	USE	S
EXS01050107.wiff	243490006	LER	1/6/2010 18:21	936890	10-1036	2	LANL	USE	S
EXS01050108.wiff	WXXCCV	LER	1/6/2010 18:37			1		USE	C
EXS01050109.wiff	XIBLK11	LER	1/6/2010 18:52			1		USE	B
EXS01050110.wiff	WXXCRI	LER	1/6/2010 19:08			1		USE	C
EXS01050111.wiff	243490007	LER	1/6/2010 19:24	936890	10-1036	2	LANL	USE	S
EXS01050112.wiff	243543001	LER	1/6/2010 19:39	936890	10-1081	2	LANL	USE	S
EXS01050113.wiff	XIBLK12	LER	1/6/2010 19:55			1		USE	B
EXS01050114.wiff	UXX091229-02.1	LER	1/6/2010 20:11	SCREEN	SOLID	2	O2SI	USE	S
EXS01050115.wiff	XIBLK13	LER	1/6/2010 20:26			1		USE	B
EXS01050116.wiff	1202006213	LER	1/6/2010 20:42	937556	VARIOUS	2	LANL	USE	S
EXS01050117.wiff	1202006214	LER	1/6/2010 20:58	937556	VARIOUS	2	LANL	USE	S
EXS01050118.wiff	243611001	LER	1/6/2010 21:14	937556	10-1096	2	LANL	USE	S
EXS01050119.wiff	1202006215	LER	1/6/2010 21:29	937556	10-1096	2	LANL	USE	S
EXS01050120.wiff	1202006216	LER	1/6/2010 21:45	937556	10-1096	2	LANL	USE	S
EXS01050121.wiff	WXXCCV	LER	1/6/2010 22:01			1		USE	C
EXS01050122.wiff	XIBLK14	LER	1/6/2010 22:16			1		USE	B
EXS01050123.wiff	WXXCRI	LER	1/6/2010 22:32			1		USE	C
EXS01050124.wiff	243611002	LER	1/6/2010 22:48	937556	10-1096	2	LANL	USE	S
EXS01050125.wiff	243611003	LER	1/6/2010 23:03	937556	10-1096	2	LANL	USE	S
EXS01050126.wiff	243615001	LER	1/6/2010 23:19	937556	10-1098-1	2	LANL	USE	S
EXS01050127.wiff	243615002	LER	1/6/2010 23:35	937556	10-1098-1	2	LANL	USE	S
EXS01050128.wiff	243615003	LER	1/6/2010 23:50	937556	10-1098-1	2	LANL	USE	S
EXS01050129.wiff	243615004	LER	1/7/2010 0:06	937556	10-1098-1	2	LANL	USE	S
EXS01050130.wiff	243615005	LER	1/7/2010 0:22	937556	10-1098-1	2	LANL	USE	S
EXS01050131.wiff	243615006	LER	1/7/2010 0:38	937556	10-1098-1	2	LANL	USE	S
EXS01050132.wiff	243615007	LER	1/7/2010 0:53	937556	10-1098-1	2	LANL	USE	S
EXS01050133.wiff	243615008	LER	1/7/2010 1:09	937556	10-1098-1	2	LANL	USE	S
EXS01050134.wiff	WXXCCV	LER	1/7/2010 1:25			1		USE	C
EXS01050135.wiff	XIBLK15	LER	1/7/2010 1:40			1		USE	B
EXS01050136.wiff	WXXCRI	LER	1/7/2010 1:56			1		USE	C
EXS01050137.wiff	243615009	LER	1/7/2010 2:12	937556	10-1098-1	2	LANL	USE	S
EXS01050138.wiff	WXXCCV	LER	1/7/2010 2:27			1		USE	C
EXS01050139.wiff	XIBLK16	LER	1/7/2010 2:43			1		USE	B
EXS01050140.wiff	WXXCRI	LER	1/7/2010 2:59			1		USE	C

DATA EXCEPTION REPORT

Mo. Day Yr. 12-JAN-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 936890	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 243490(10-1036), 243543(10-1081)</p> <p>Application Issues:</p> <p>Failed Recovery for LCS/LCSD</p> <p>Failed Recovery for MS/PS</p> <p>Failed RPD for MS/MSD, or PS/PSD</p>			
Specification and Requirements		DER Disposition:	
<p>Exception Description:</p> <p>1. The Laboratory Control Sample (1202004627) did not meet spike recovery limits for 2,4-Diamino-6-nitrotoluene at 63.6% with recovery limits of 65-128%, 2,6-Diamino-4-nitrotoluene at 65.2% with recovery limits of 70-133% and TATB at 304% with limits of 47-166%.</p> <p>2. The Matrix Spike (1202004628) did not meet spike recovery limits for TATB at 308%. The recovery limits are 44-166%.</p> <p>3. The MS/MSD pair (1202004628/9) did not meet RPD acceptance limits for TATB at 72.6%. The acceptance limits are 0-30%.</p>		<p>1. & 2. Since the Matrix Spike and Matrix Spike Duplicate both met acceptance limits for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene, the data are reported with the appropriate NCR. While TATB exhibited a high bias in the LCS and MS, the MSD met recovery limits, thus establishing method accuracy. Since TATB was not detected in the associated samples, the data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p> <p>3. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancy is noted in the case narrative.</p>	

Originator's Name:

Michael Penny 12-JAN-10

Data Validator/Group Leader:

Herbert Maier 13-JAN-10

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1036-1**

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: 938973

Prep Batch Number: 938972

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
243491001	RE12-10-7867
243491002	RE12-10-7868
1202009324	Method Blank (MB)
1202009325	Laboratory Control Sample (LCS)
1202009328	Laboratory Control Sample Duplicate (LCSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

Primary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

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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 recovered Tetryl at 2.03% with recovery limits of 31-119% and recovered 2,4,6-Trinitrotoluene at 60.0% with recovery limits of 78-132%. Since similar recoveries were obtained between the LCS and LCSD, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 781120.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD recovered Tetryl at 4.63% with recovery limits of 31-119% and recovered 2,4,6-Trinitrotoluene at 64.6% with recovery limits of 78-132%. Since similar recoveries were obtained between laboratory control samples, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 781120.

LCS/LCSD Relative Percent Difference (RPD) Statement

The LCS/LCSD RPD for HMX was 27.0% and for Tetryl was 78.0%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported. Please see data exception report 781120.

QC Sample Designation

A matrix spike was not performed with this batch. The samples were swipes. There was not enough sample to extract a matrix spike.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information

Holding Time Specifications

Samples 243491001 (RE12-10-7867) and 243491002 (RE12-10-7868) were extracted out of holding. They were collected on 12/18/09, received on 12/23/09 and extracted on 01/06/10. The samples were extracted out of the 14 day hold period but within twice the hold period. Please see data exception report 781120. 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.

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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.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries were within the established acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike was not performed with this batch. The samples were swipes. There was not enough sample to extract a matrix spike.

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Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information

Holding Time Specifications

Samples 243491001 (RE12-10-7867) and 243491002 (RE12-10-7868) were extracted out of holding. They were collected on 12/18/09, received on 12/23/09 and extracted on 01/06/10. The samples were extracted out of the 14 day hold period but within twice the hold period. Please see data exception report 781120. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 781120 was generated for this SDG.

The LCS recovered Tetryl at 2.03% with recovery limits of 31-119% and recovered 2,4,6-Trinitrotoluene at 60.0% with recovery limits of 78-132%. The LCSD recovered Tetryl at 4.63% with recovery limits of 31-119% and recovered 2,4,6-Trinitrotoluene at 64.6% with recovery limits of 78-132%. Since similar recoveries were obtained between the LCS and LCSD, the noted exceptions are attributed to vagaries in the extraction process. The data are reported.

The LCS/LCSD RPD for HMX was 27.0% and for Tetryl was 78.0%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported.

Samples 243491001 (RE12-10-7867) and 243491002 (RE12-10-7868) were extracted out of holding. They were collected on 12/18/09, received on 12/23/09 and extracted on 01/06/10. The samples were extracted out of the 14 day hold period but within twice the hold period.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

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Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert M. Mauer

Date: 01/19/10

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SAMPLE DATA SUMMARY

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117025a

Date Analyzed: 18-JAN-10 05:58

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	0.4	Uh
121-14-2	2,4-Dinitrotoluene	0.4	Uh
121-82-4	RDX	0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene	0.4	Uh
2691-41-0	HMX	0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	0.6	Uh
479-45-8	Tetryl	0.4	Uh
606-20-2	2,6-Dinitrotoluene	0.4	Uh
78-11-5	PETN	2.92	Uh
88-72-2	o-Nitrotoluene	0.4	Uh
98-95-3	Nitrobenzene	0.6	Uh
99-08-1	m-Nitrotoluene	0.4	Uh
99-35-4	1,3,5-Trinitrobenzene	0.4	Uh
99-65-0	m-Dinitrobenzene	0.6	Uh
99-99-0	p-Nitrotoluene	0.4	Uh

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		<u>Sample Amount</u>		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080045.wiff

Date Analyzed: 09-JAN-10 02:05

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate	1.0	Uh

*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: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117026a

Date Analyzed: 18-JAN-10 06:28

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	0.4	Uh
121-14-2	2,4-Dinitrotoluene	0.4	Uh
121-82-4	RDX	0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene	0.4	Uh
2691-41-0	HMX	0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	0.6	Uh
479-45-8	Tetryl	0.4	Uh
606-20-2	2,6-Dinitrotoluene	0.4	Uh
78-11-5	PETN	2.92	Uh
88-72-2	o-Nitrotoluene	0.4	Uh
98-95-3	Nitrobenzene	0.6	Uh
99-08-1	m-Nitrotoluene	0.4	Uh
99-35-4	1,3,5-Trinitrobenzene	0.4	Uh
99-65-0	m-Dinitrobenzene	0.6	Uh
99-99-0	p-Nitrotoluene	0.4	Uh

*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: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount: 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080046.wiff

Date Analyzed: 09-JAN-10 02:21

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate	1.0	Uh

*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): 10-1036-1

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
243491001	RE12-10-7867	97.4	73.7 - 133.3	
243491001	RE12-10-7867	83.6	73.7 - 133.3	
243491002	RE12-10-7868	96.5	73.7 - 133.3	
243491002	RE12-10-7868	82.4	73.7 - 133.3	
1202009324	MB for batch 938972	90.3	73.7 - 133.3	
1202009324	MB for batch 938972	91.2	73.7 - 133.3	
1202009325	LCS for batch 938972	97.9	73.7 - 133.3	
1202009325	LCS for batch 938972	84	73.7 - 133.3	
1202009328	LCSD for batch 938972	95.5	73.7 - 133.3	
1202009328	LCSD for batch 938972	82.4	73.7 - 133.3	

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) 10-1036-1

Extract Batch Code: 938972

Date Extracted: 06-JAN-10

GEL LCS ID: 1202009325

GEL LCSDUP ID: 1202009328

Analysis Date/Time: 18-JAN-10 04:59

DUP Analysis Date/Time:

Reporting Units: ug/Filter

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	10	7.17	71.7	7.49	74.9	4.32	25	62.1 - 124
2,4,6-Trinitrotoluene	10	6	60 *	6.46	64.6 *	7.28	25	78.3 - 132
2,4-Dinitrotoluene	10	9.3	93	10.1	101	7.88	25	82.7 - 132
2,6-Dinitrotoluene	10	9.41	94.1	9.53	95.3	1.22	25	86.9 - 122
2-Amino-4,6-dinitrotoluene	10	10	100	9.24	92.4	8.08	25	84.2 - 149
4-Amino-2,6-dinitrotoluene	10	8.98	89.8	9.12	91.2	1.58	25	85.6 - 133
HMX	10	11.6	116	8.84	88.4	27 *	25	66.5 - 142
Nitrobenzene	10	9.75	97.5	9.49	94.9	2.71	25	71.8 - 126
PETN	10	8.28	82.8	8.54	85.4	3.04	25	64.6 - 147
RDX	10	11.3	113	9.85	98.5	13.9	25	78.7 - 144
Tetryl	10	.203	2.03 *	.463	4.63 *	78 *	25	31.2 - 119
m-Dinitrobenzene	10	9.29	92.9	9.4	94	1.19	25	80.9 - 127
m-Nitrotoluene	10	8.67	86.7	9.33	93.3	7.33	25	71.9 - 126
o-Nitrotoluene	10	8.42	84.2	8.63	86.3	2.51	25	75 - 123
p-Nitrotoluene	10	8.65	86.5	9.26	92.6	6.78	25	73.7 - 124

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) 10-1036-1

Extract Batch Code: 938972

Date Extracted: 06-JAN-10

GEL LCS ID: 1202009325

GEL LCSDUP ID: 1202009328

Analysis Date/Time: 09-JAN-10 01:34

DUP Analysis Date/Time:

Reporting Units: ug/Filter

QC Type: LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
2,4-Diamino-6-nitrotoluene	10	7.56	75.6	7.5	75	.797	25	64.8 - 128
2,6-Diamino-4-nitrotoluene	10	8.88	88.8	8.02	80.2	10.2	25	69.6 - 133
3,5-Dinitroaniline	10	8.68	86.8	8.22	82.2	5.44	25	77.3 - 123
tris(o-cresyl) phosphate	10	9.96	99.6	8.88	88.8	11.5	25	84.3 - 120
TATB	10	7.74	77.4	7.62	76.2	1.56	25	46.8 - 166

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 17-JAN-10 18:11

GEL Data File: EXP0117001a

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	469.804
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	544.094
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Printed: Mon Jan 18 07:35:26 2010, Page 1 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\011710expa.mdb, Time: Mon Jan 18 07:21:54 2010
Calibration: Untitled, Time: Mon Jan 18 07:34:17 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117001a

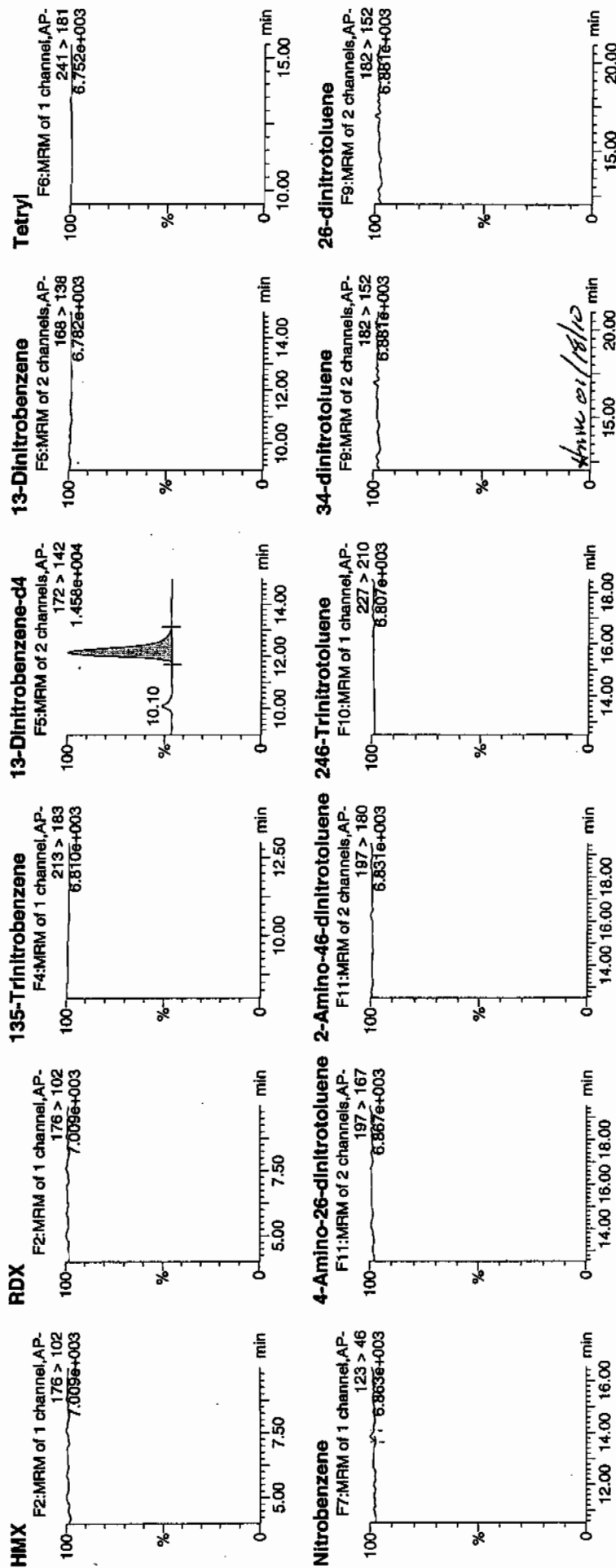
Date: 17-Jan-2010

Time: 18:11:10

ID: XIBLK01

Vial: 1:1,A

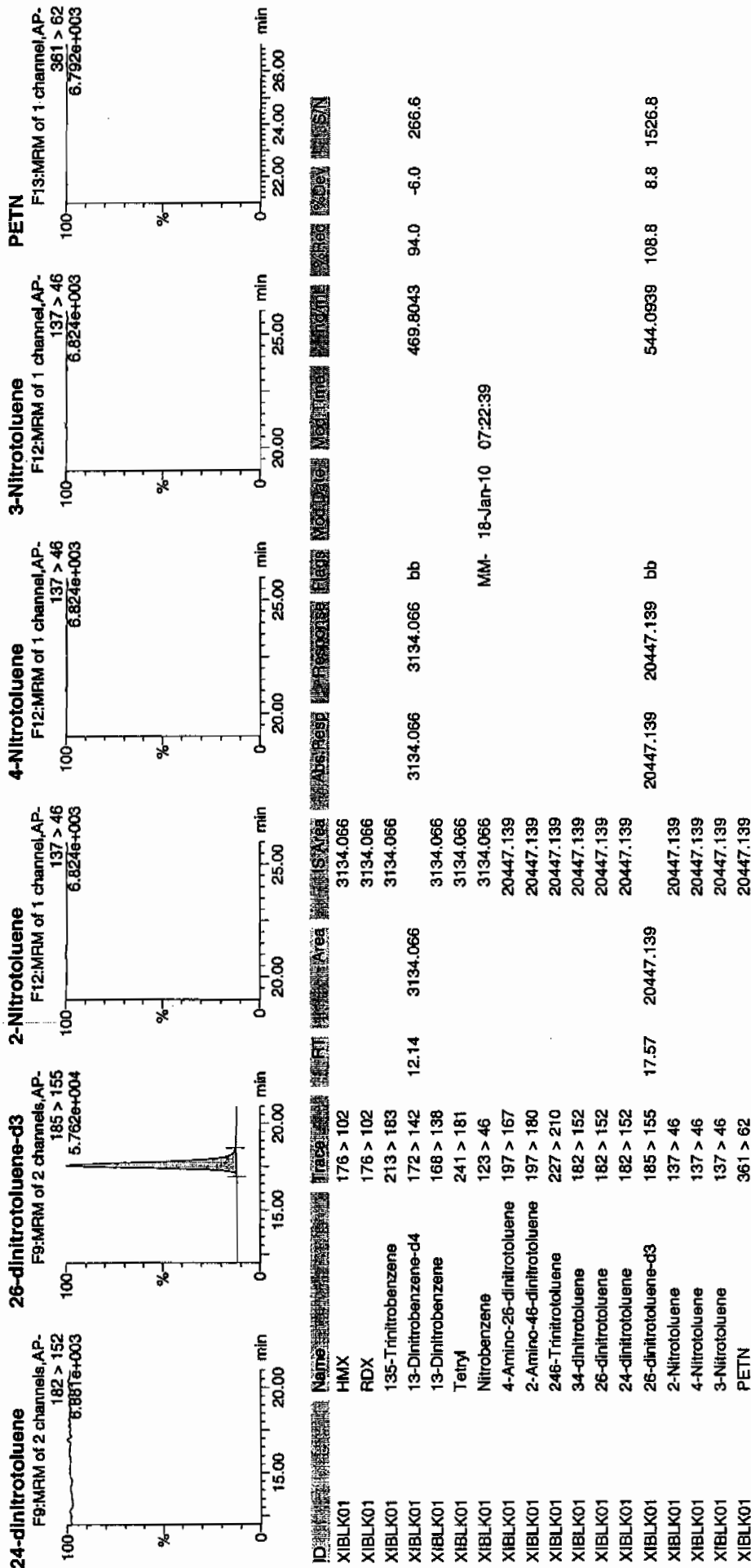
WAP
1/18/10



Printed: Mon Jan 18 07:35:26 2010, Page 2 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 17-JAN-10 18:40

GEL Data File: EXP0117002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	503.527
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
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	502.932
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0

Printed: Mon Jan 18 07:35:26 2010, Page 3 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117002a

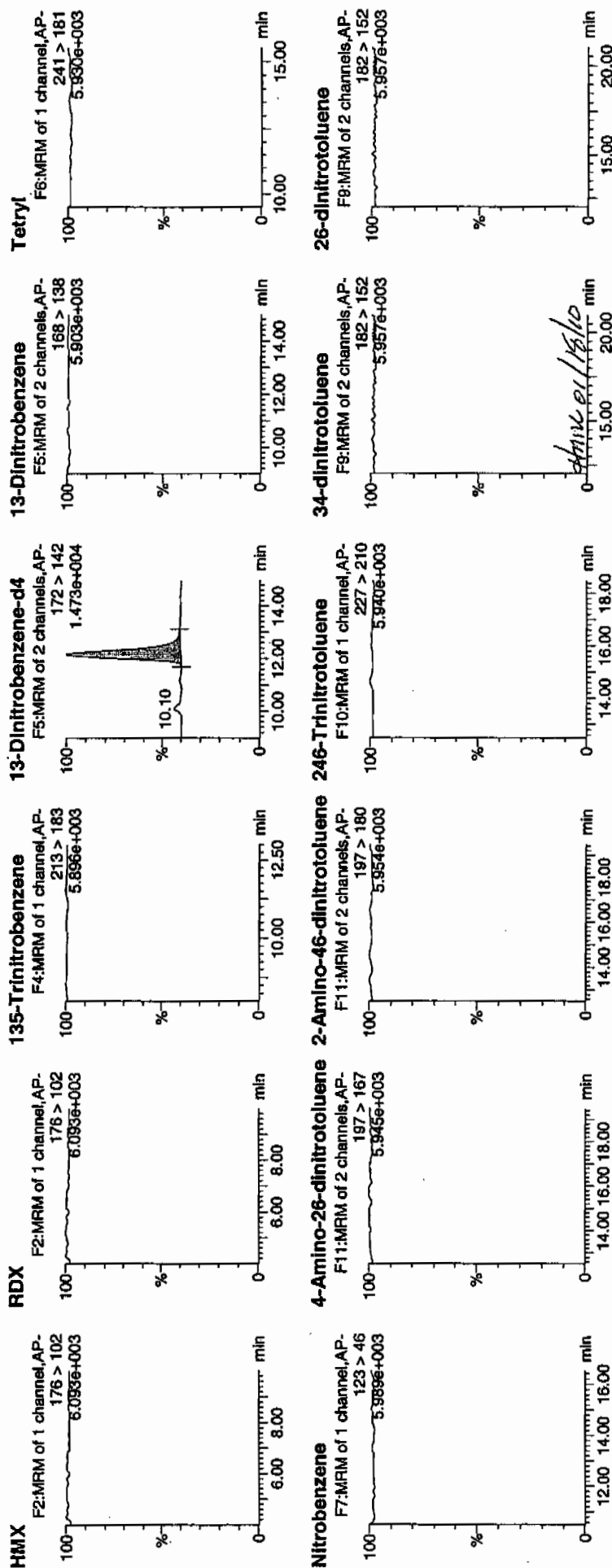
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ID: XIBLK01

Vial: 1:1,A

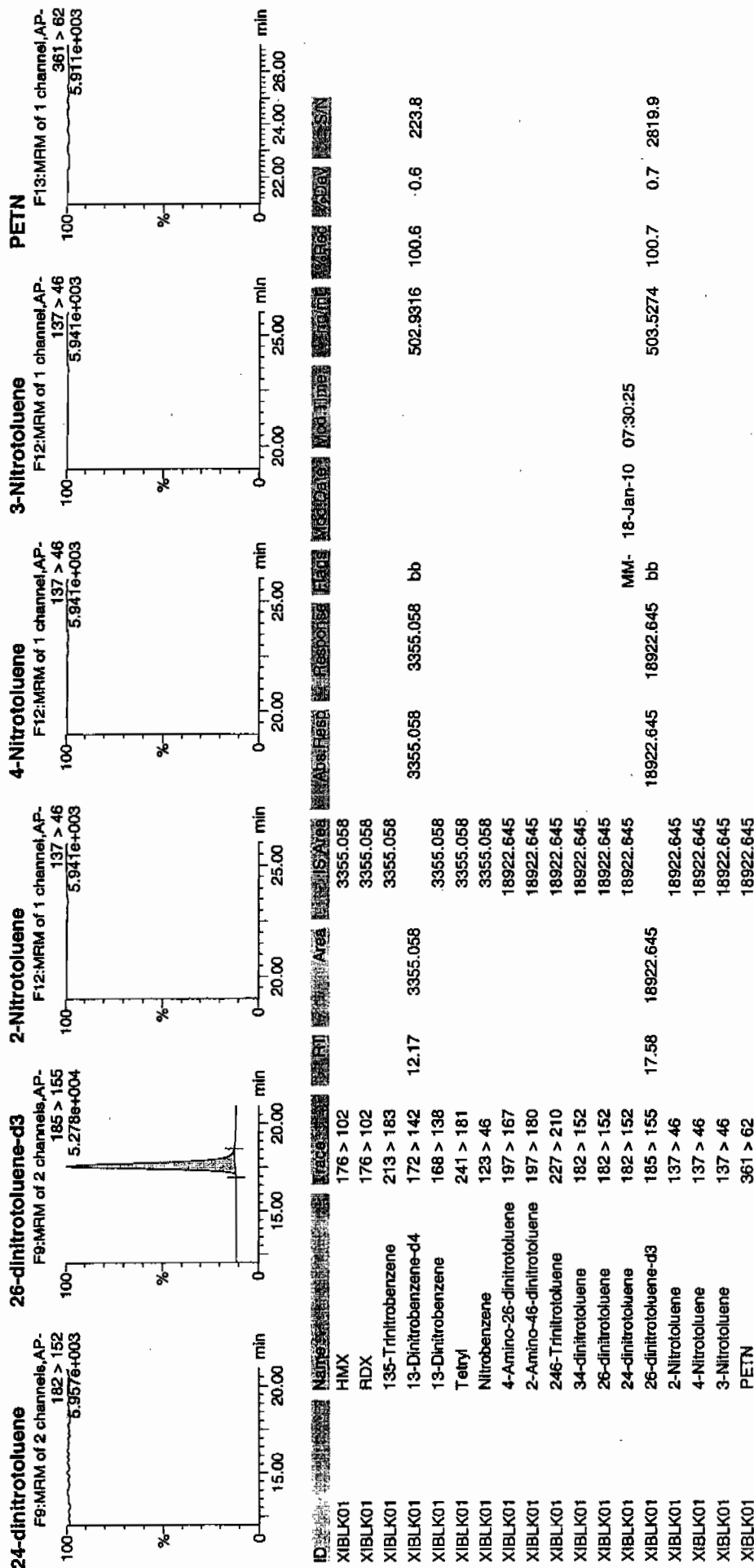
11/18/10



Printed: Mon Jan 18 07:35:26 2010, Page 4 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-JAN-10 14:34

GEL Data File: EXS01080001.wiff

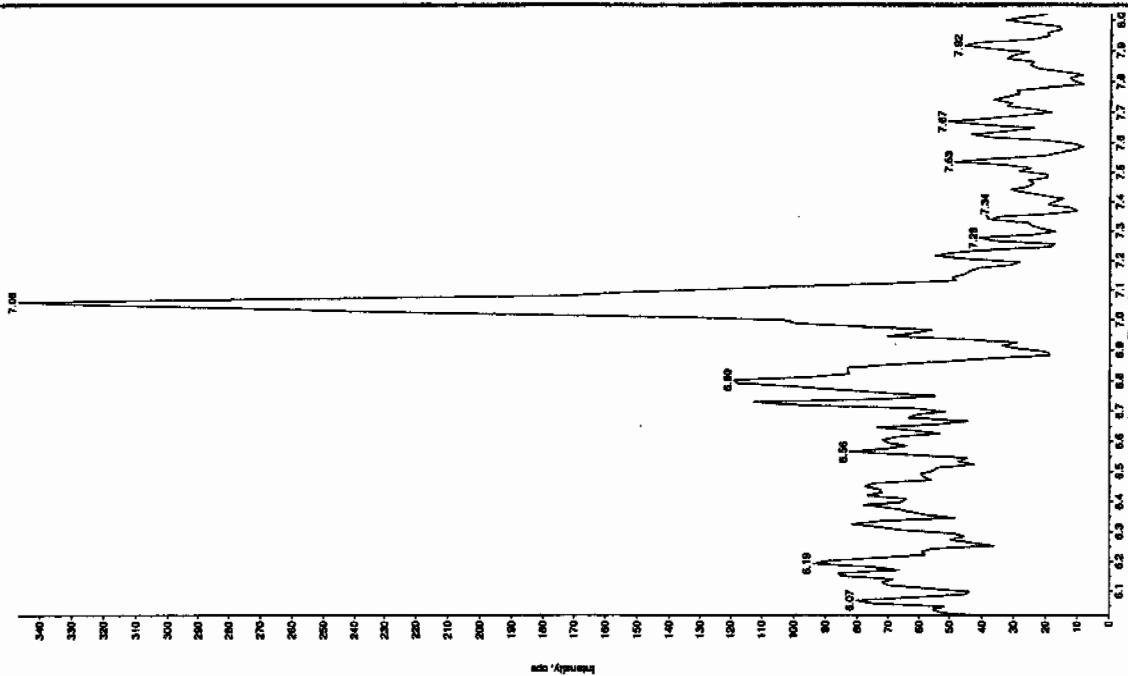
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

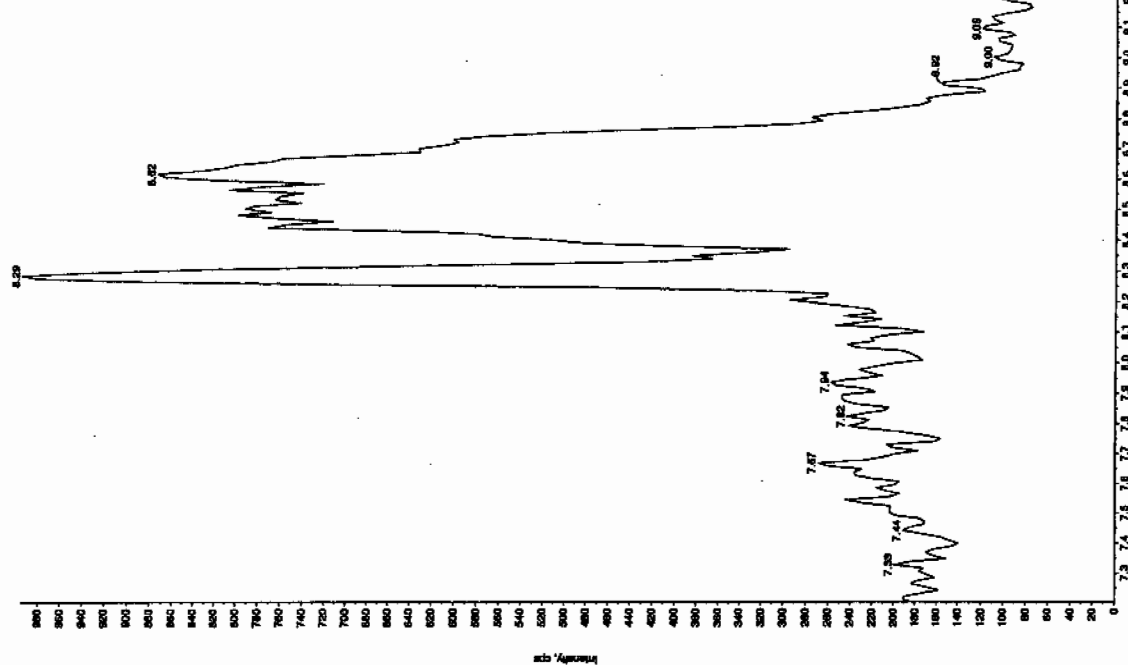
Sample Name: "XBLK01" Sample ID: "TILLER" File: "EXS01080001.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 2:34:25 PM
 Acq. Time: 2:34:25 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "TILLER" File: "EXS01080001.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 2:34:25 PM
 Acq. Time: 2:34:25 PM
 Modified: No



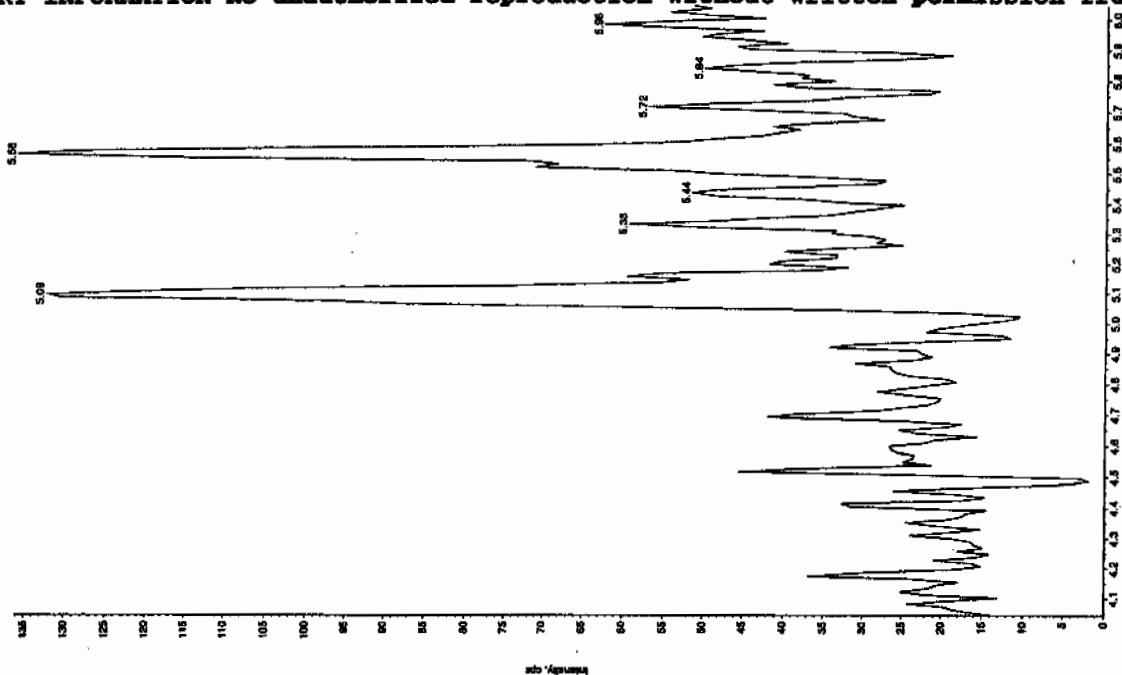
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Am 01/10

08/21/10

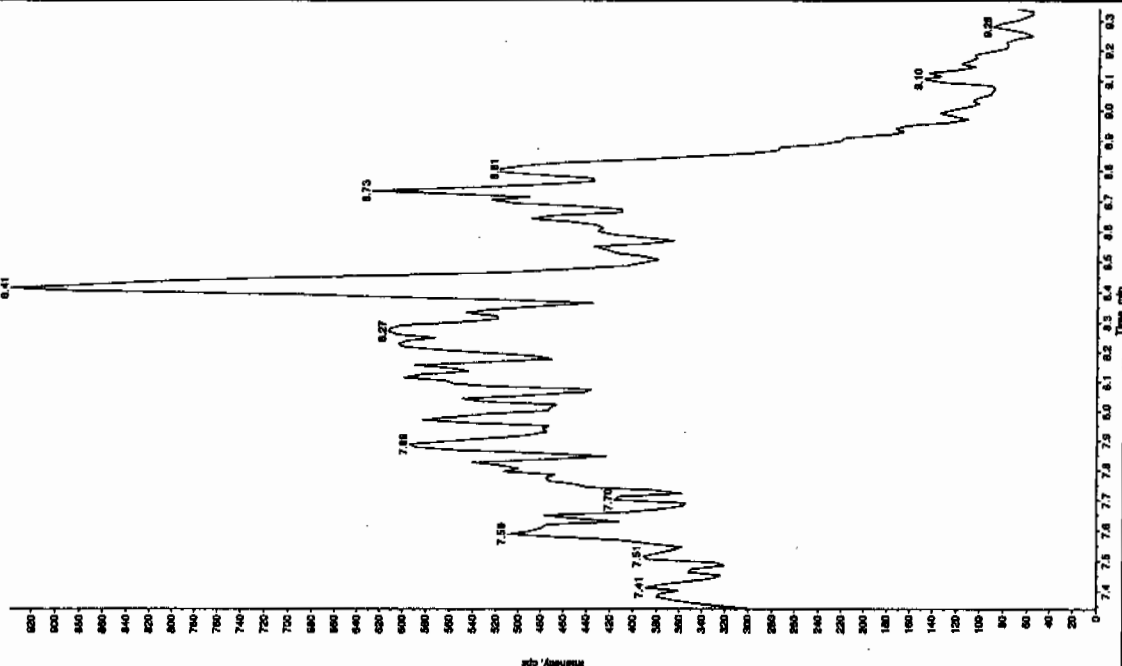
Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX501080001.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "188.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:34:26 PM
 Modified: No



Sample Name: "XIBLK01" Sample ID: "111ER" File: "EX501080001.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.171.9 amu"
 Comment: "LCMS-EXP_B" Annotation: ""

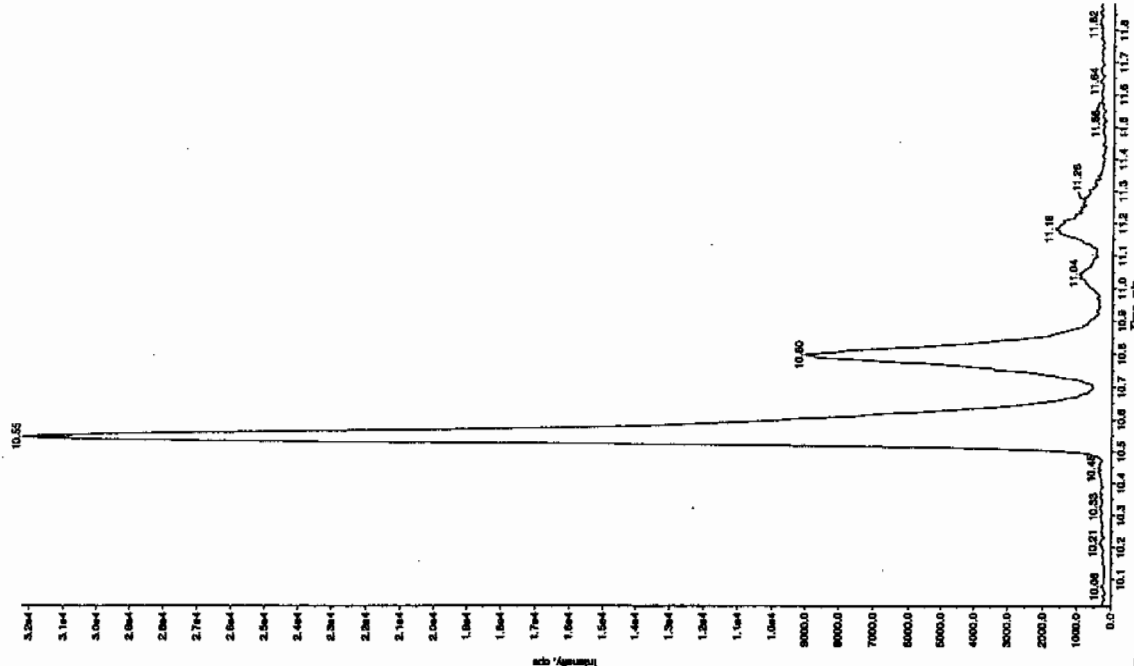
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:34:26 PM
 Modified: No



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

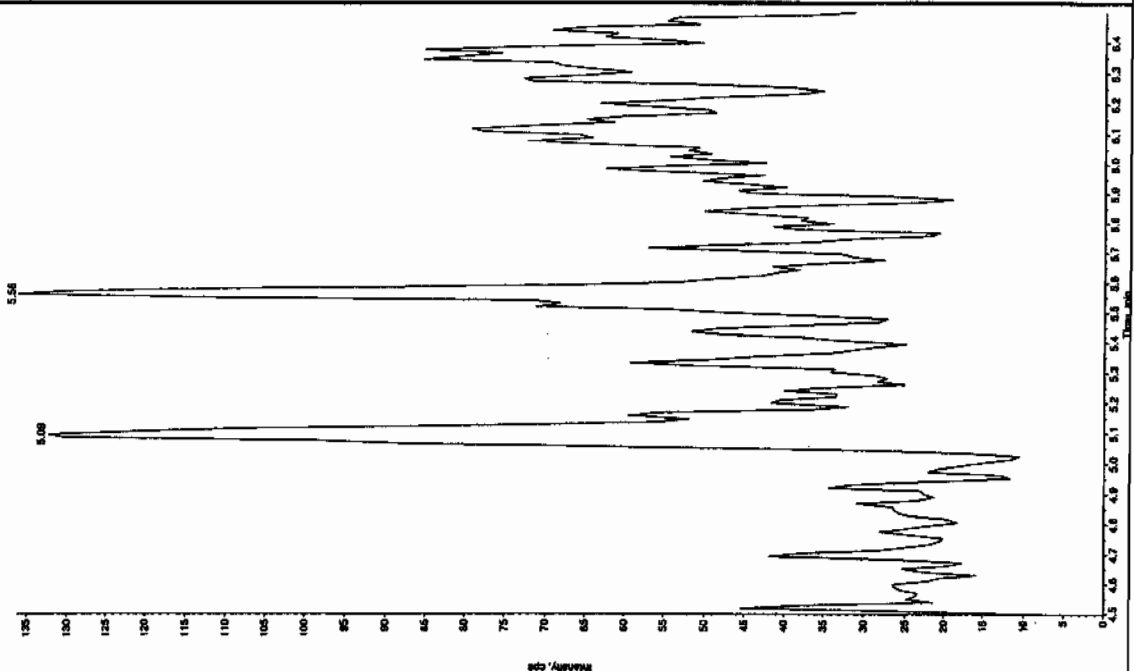
Sample Name: "XBLK01" Sample ID: "J1LER" File: "EXS01080001.wif"
 Peak Name: "bis(o-cresyl) phosphite" Mass(es): "359.191.0 amu"
 Comment: "LCMS EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:34:26 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "J1LER" File: "EXS01080001.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "165.046.0 amu"
 Comment: "LCMS EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:34:26 PM
 Modified: No



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 08-JAN-10 14:50

GEL Data File: EXS01080002.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

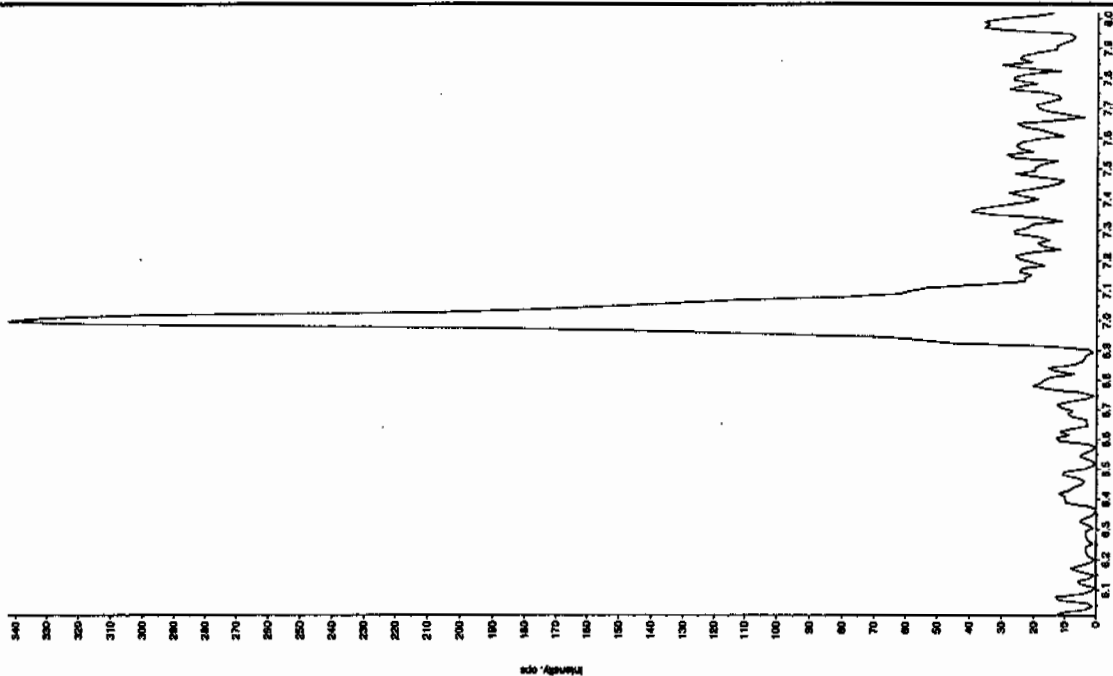
8/24/10

Sample Name: "XBLK01" Sample ID: "TILER" File: "EX501080002.wif"

Peak Name: "TATB" Mass(es): "257.2(204.9 amu)"

Comment: "LCMSSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No

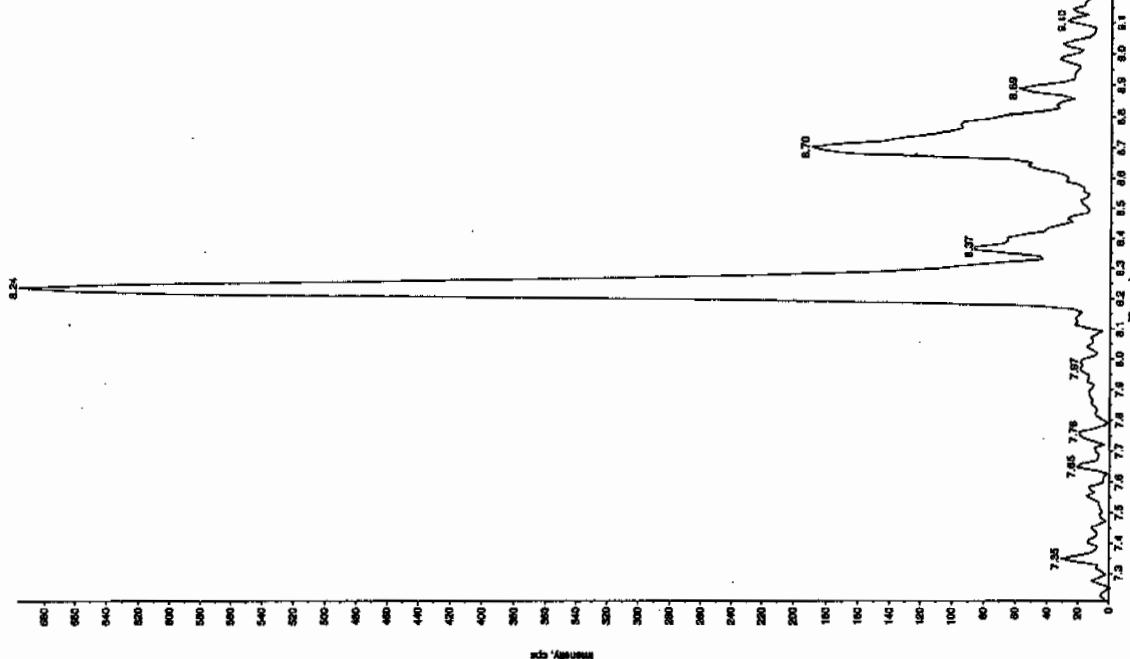


Sample Name: "XBLK01" Sample ID: "TILER" File: "EX501080002.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.0(46.0 amu)"

Comment: "LCMSSEXP_B" Annotation: "

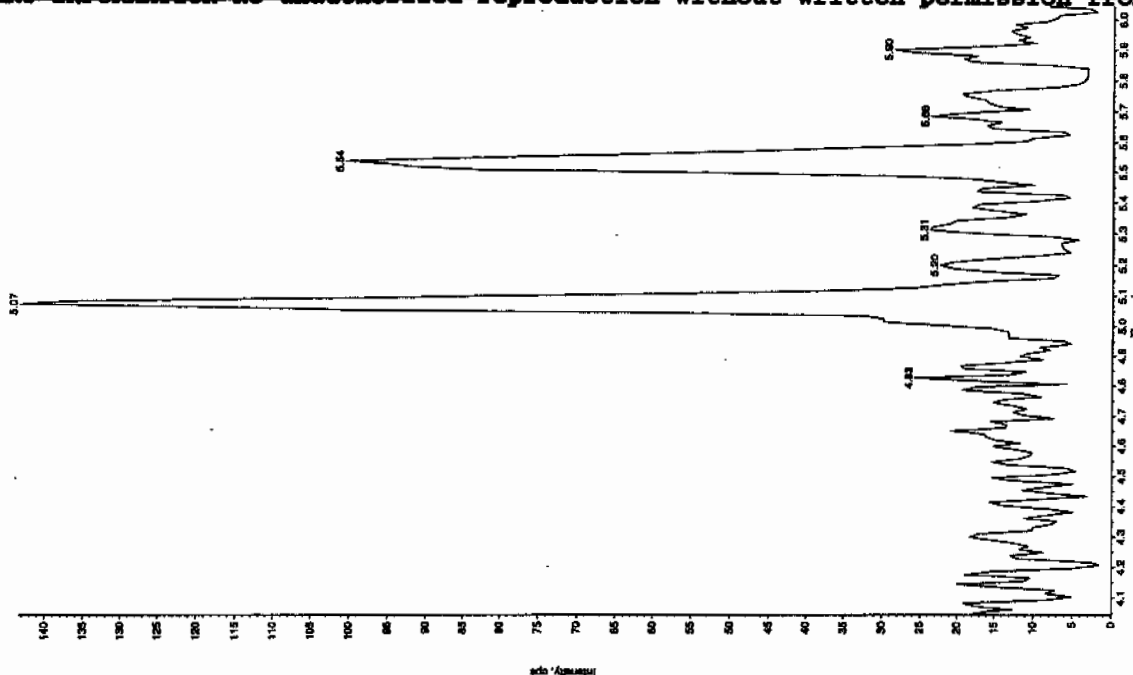
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No



8/24/10

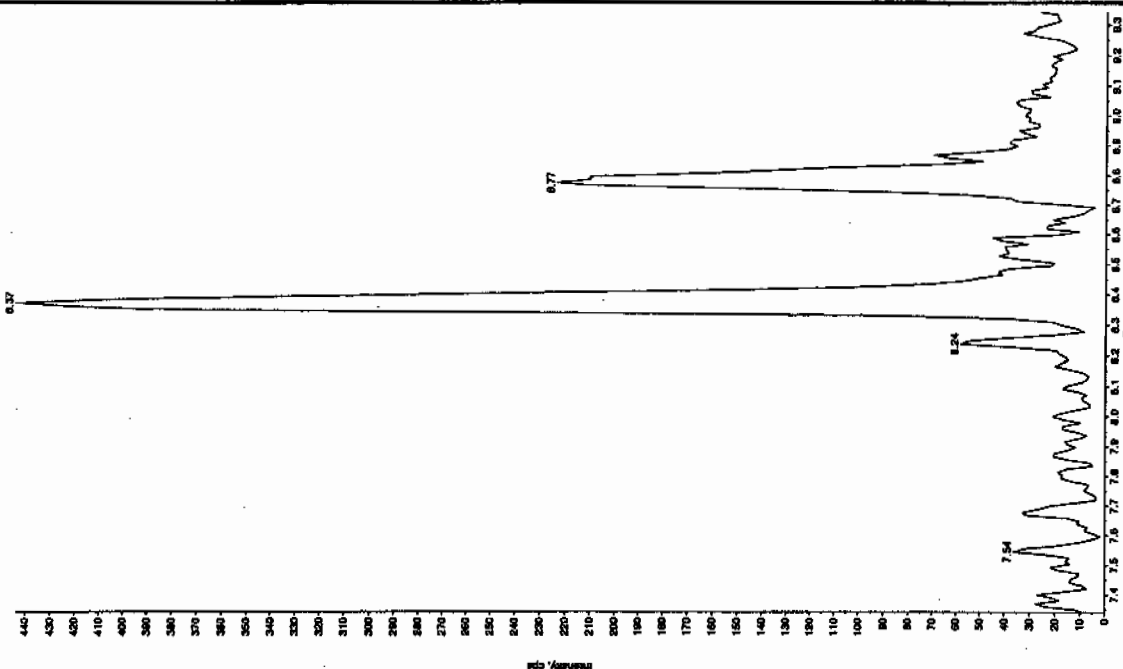
Sample Name: "XBLK01" Sample ID: "11LEF" File: "EX501080002.wif"
 Peak Name: "26-Diethyl-4-nitrobenzene" Mass(es): "168.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No



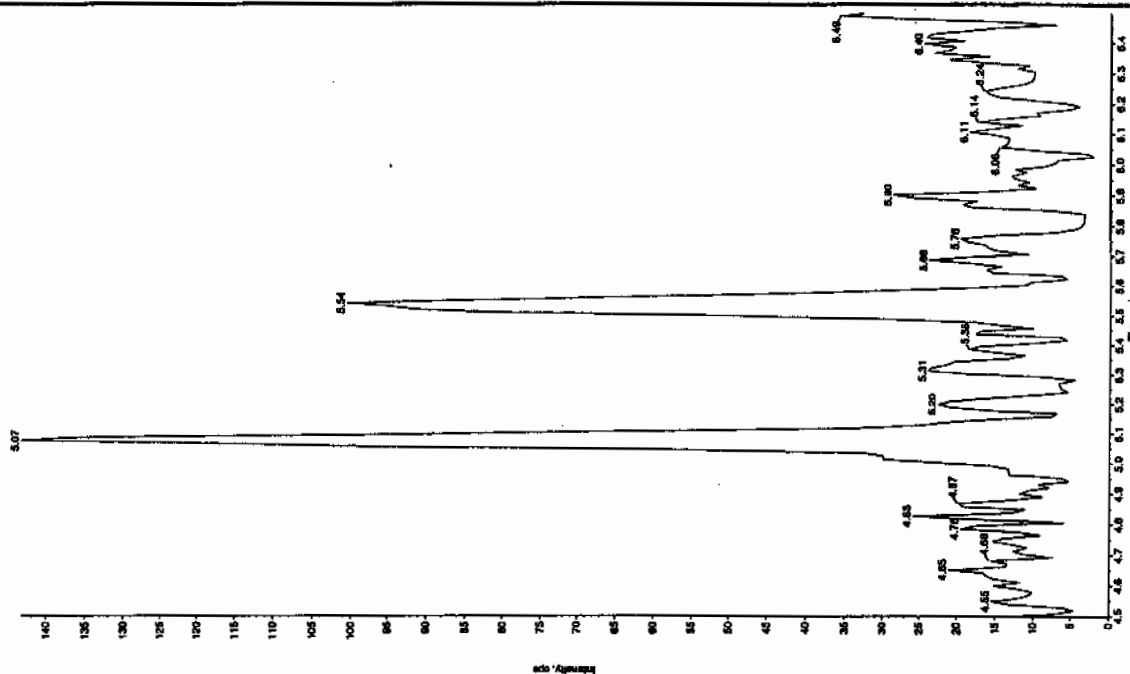
Sample Name: "XBLK01" Sample ID: "11LEF" File: "EX501080002.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "162.07151.9 amu"
 Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No

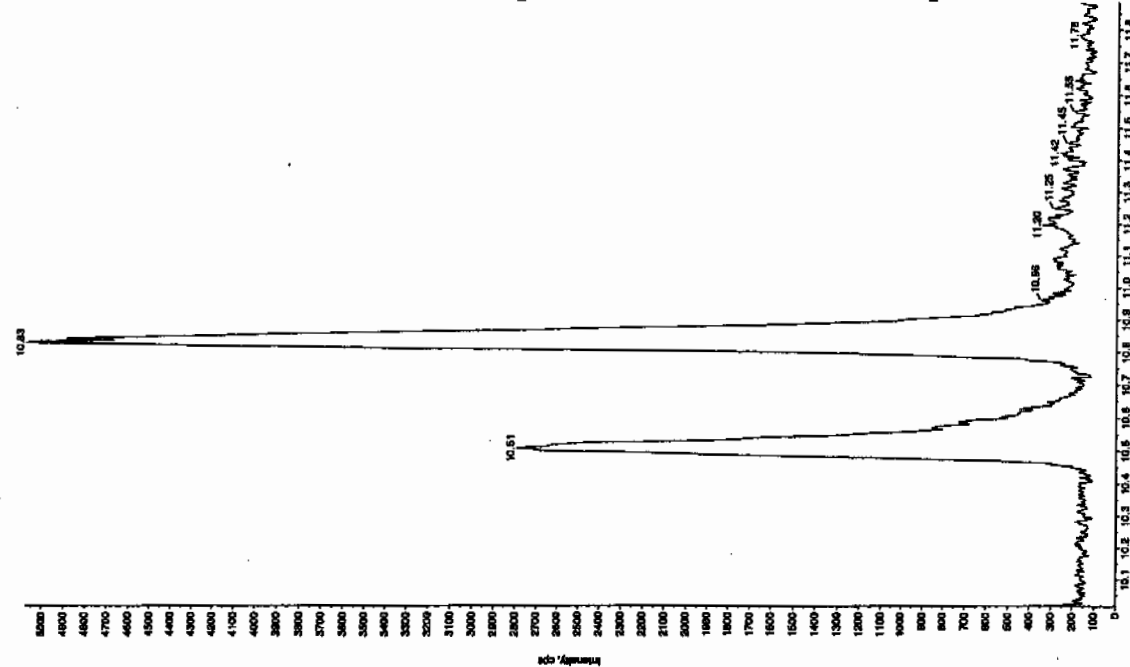


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLK01" Sample ID: "T1LRF" File: "EX501060002.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "165.046.0 amu"
 Comment: "LCMS-EXP.B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No



Sample Name: "XBLK01" Sample ID: "T1LRF" File: "EX501060002.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "358.1811.0 amu"
 Comment: "LCMS-EXP.B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/8/2010
 Acq. Time: 2:50:12 PM
 Modified: No



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 17-JAN-10 22:06

GEL Data File: EXP0117009a

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	497.647
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	489.47
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Printed: Mon Jan 18 07:35:26 2010, Page 17 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117009a

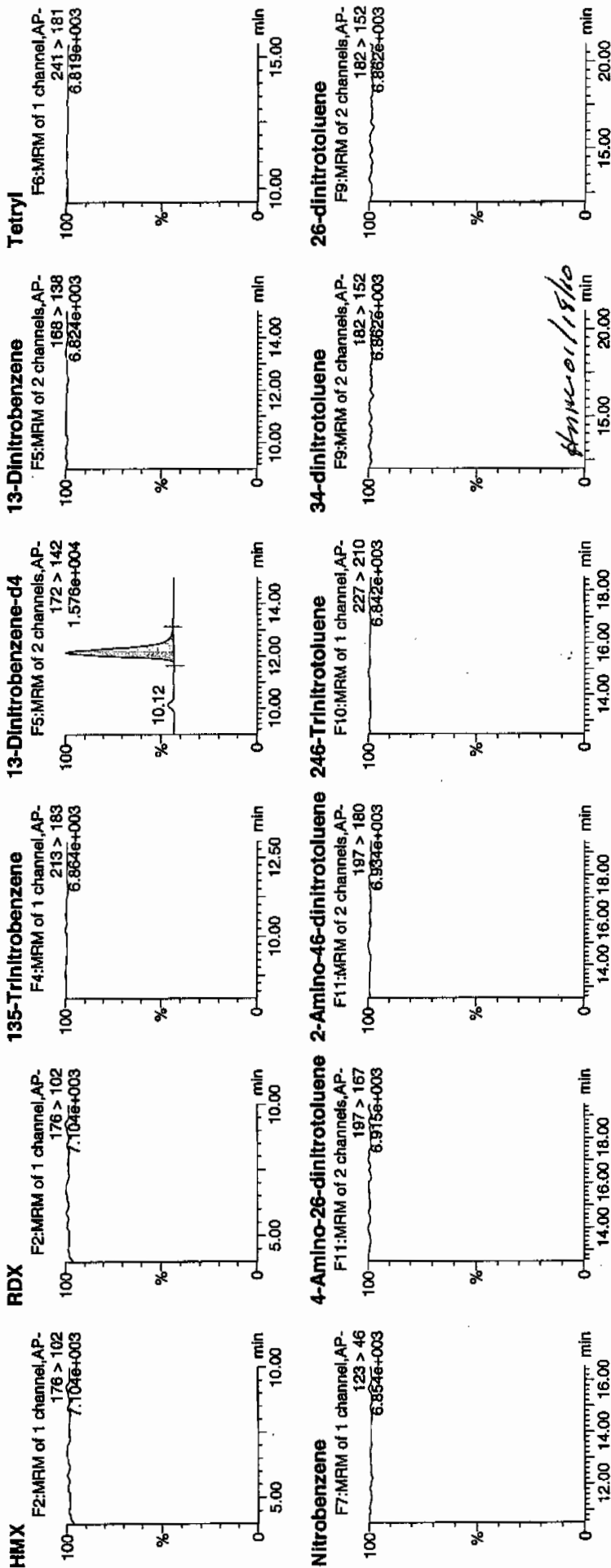
Date: 17-Jan-2010

Time: 22:06:58

ID: XIBLK02

Vial: 1:1,A

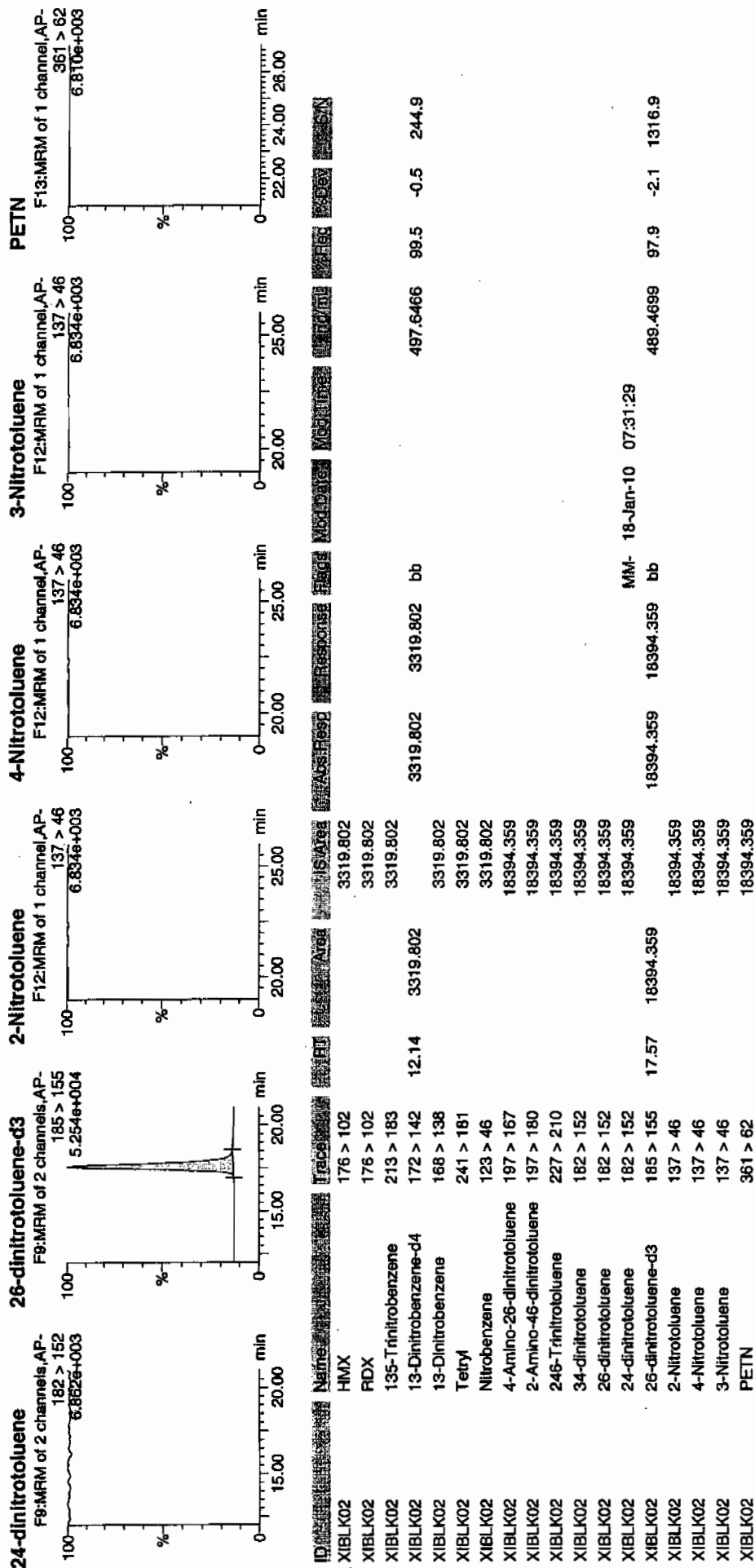
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Printed: Mon Jan 18 07:35:26 2010, Page 18 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO011710expA.qld, Time: Mon Jan 18 07:34:18 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 17-JAN-10 23:05

GEL Data File: EXP0117011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	548.537
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	588.017
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

Printed: Mon Jan 18 07:35:26 2010, Page 21 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117011a

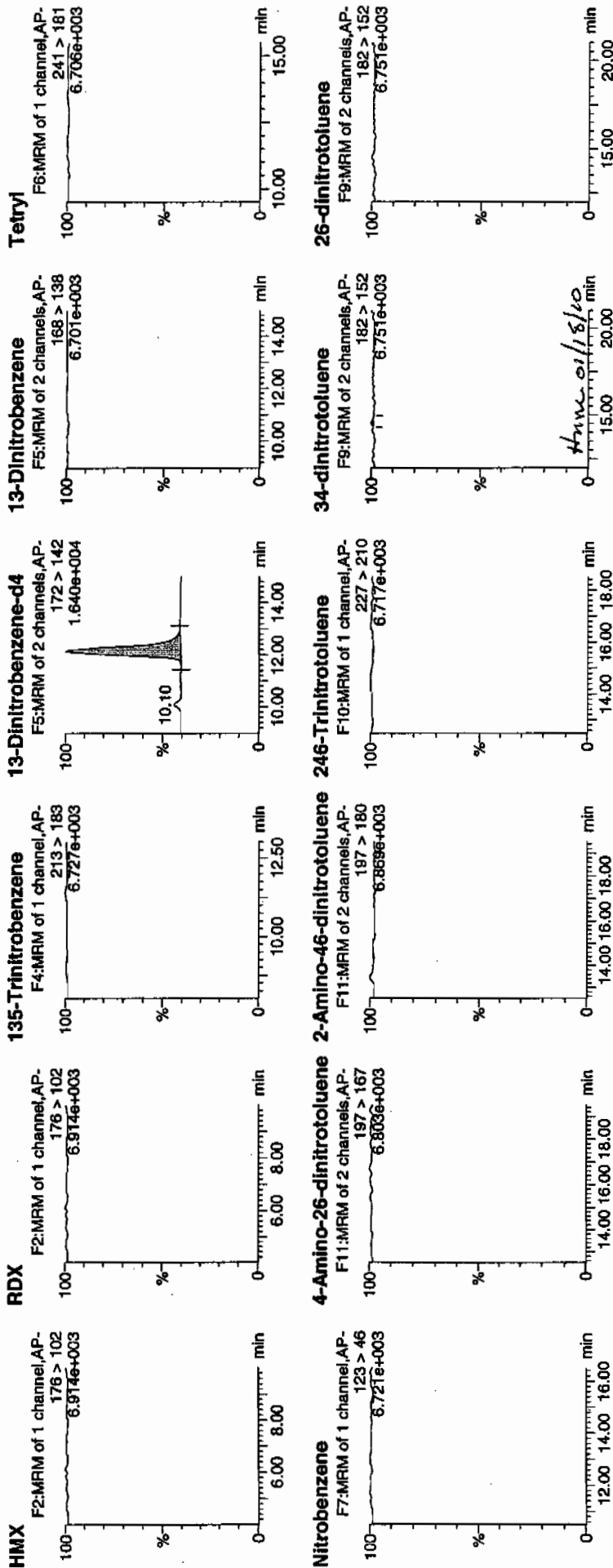
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Time: 23:05:54

ID: XIBLK03

Vial: 1:1,A

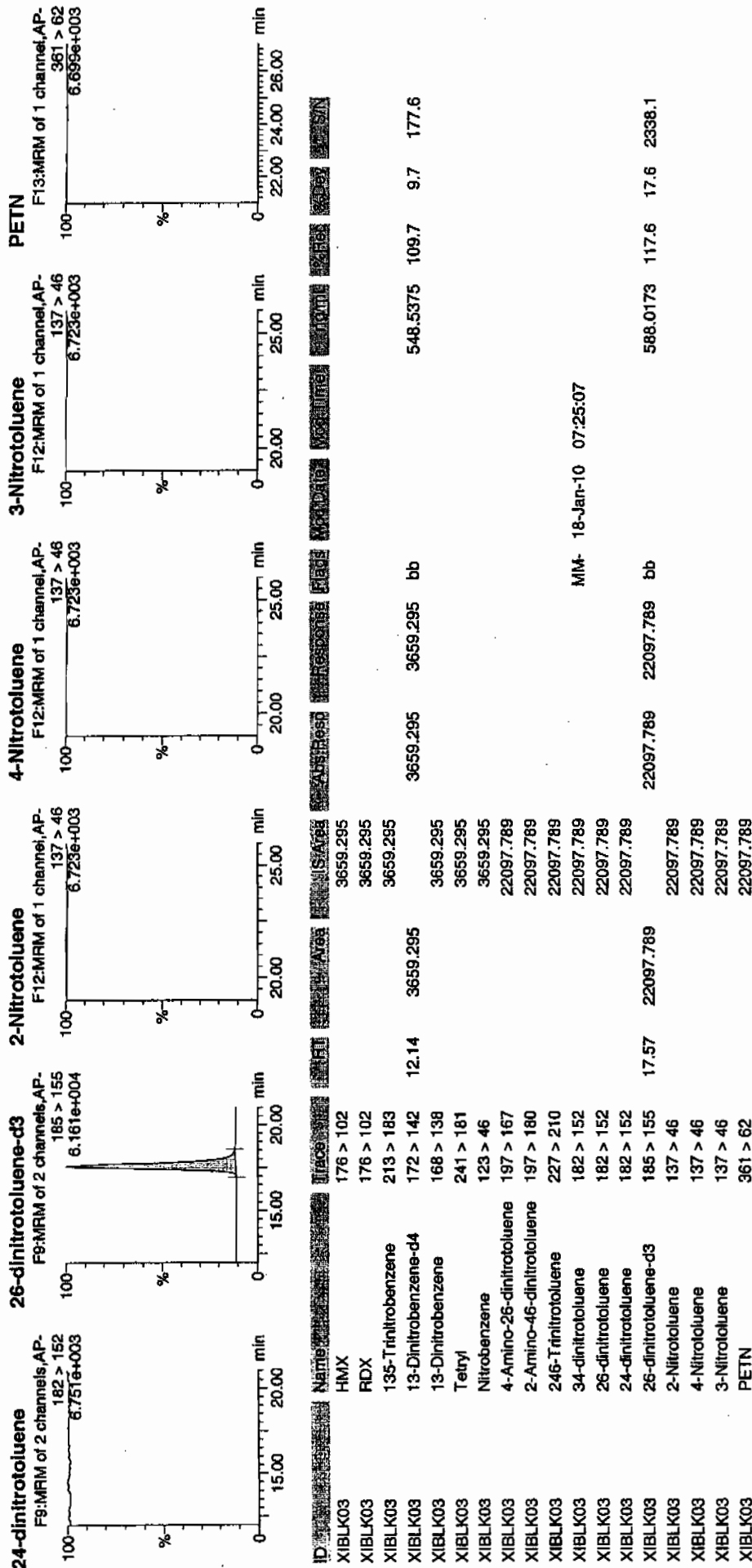
10/10



Printed: Mon Jan 18 07:35:26 2010, Page 22 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 18-JAN-10 03:31

GEL Data File: EXP0117020a

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	600.62
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	575.792
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0117020a

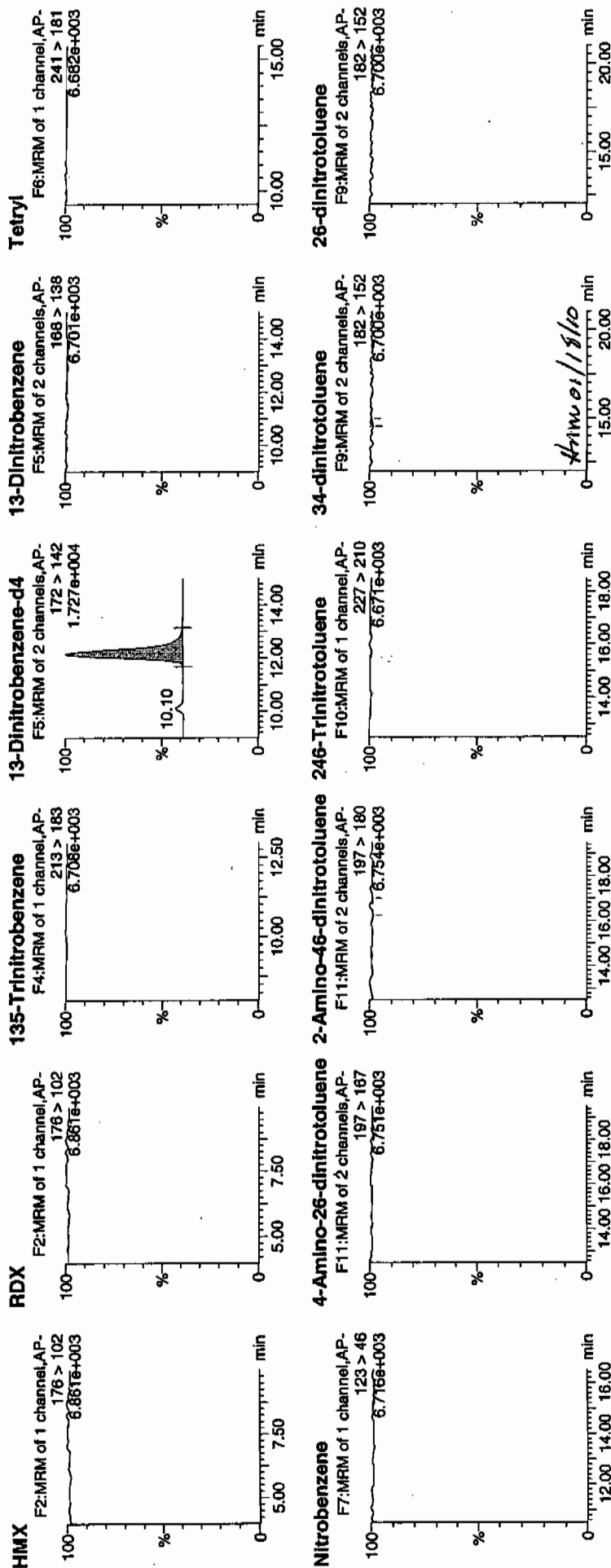
Date: 18-Jan-2010

Time: 03:31:16

ID: XIBLK04

Vial: 1:1,A

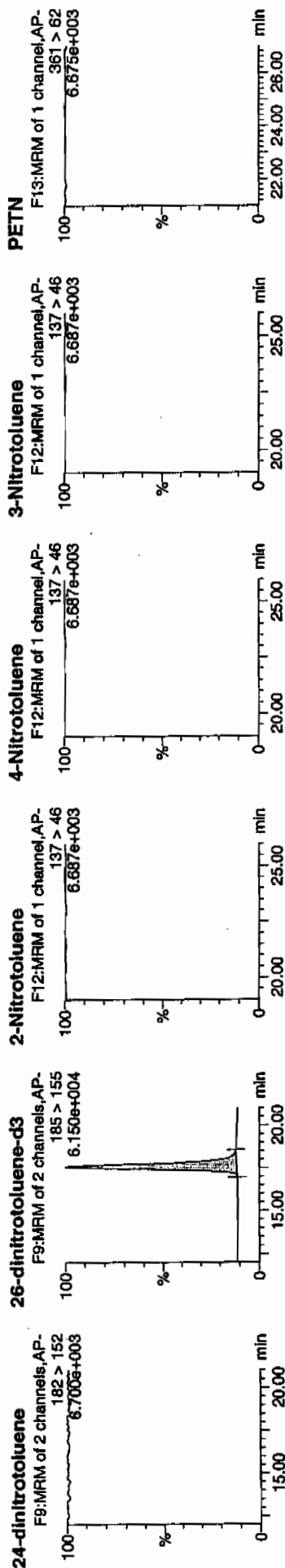
1/18/10



Printed: Mon Jan 18 07:35:26 2010, Page 40 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO011710expA.qld, Time: Mon Jan 18 07:34:18 2010



ID	Name	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
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XIBLK04	RDX	176 > 102	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735
XIBLK04	135-Trinitrobenzene	213 > 183	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.14	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735
XIBLK04	13-Dinitrobenzene	168 > 138	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735
XIBLK04	Tetryl	241 > 181	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735	4006.735
XIBLK04	Nitrobenzene	123 > 46	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	246-Trinitrotoluene	227 > 210	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	34-dinitrotoluene	182 > 152	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	26-dinitrotoluene	182 > 152	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	24-dinitrotoluene	182 > 152	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.57	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	2-Nitrotoluene	137 > 46	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	4-Nitrotoluene	137 > 46	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	3-Nitrotoluene	137 > 46	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346	21638.346
XIBLK04	PETN	361 > 62	575.7916	115.2	15.2	1635.8	575.7916	115.2	15.2	1635.8	575.7916

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 18-JAN-10 07:27

GEL Data File: EXP0117028a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
RDX	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	611.88
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	538.636
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0

Printed: Mon Jan 18 13:16:14 2010, Page 13 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117028a

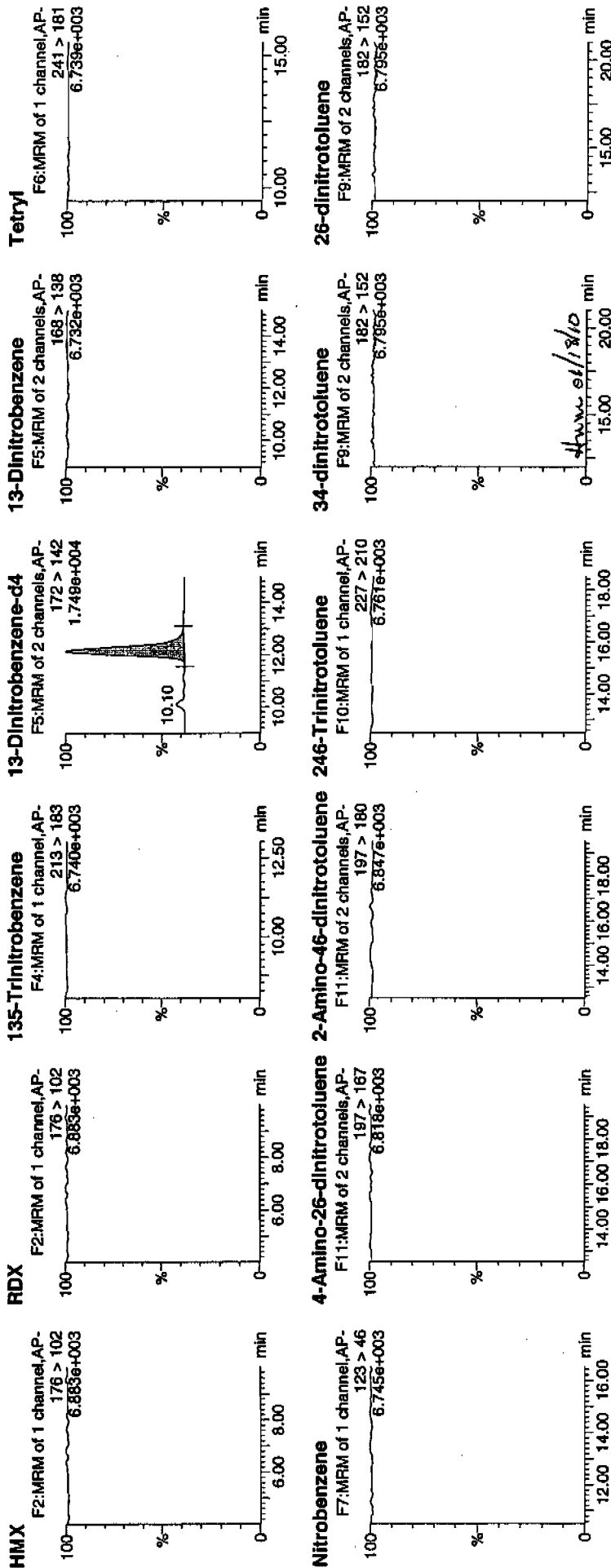
Date: 18-Jan-2010

Time: 07:27:10

ID: XIBLK05

Vial: 1:1,A

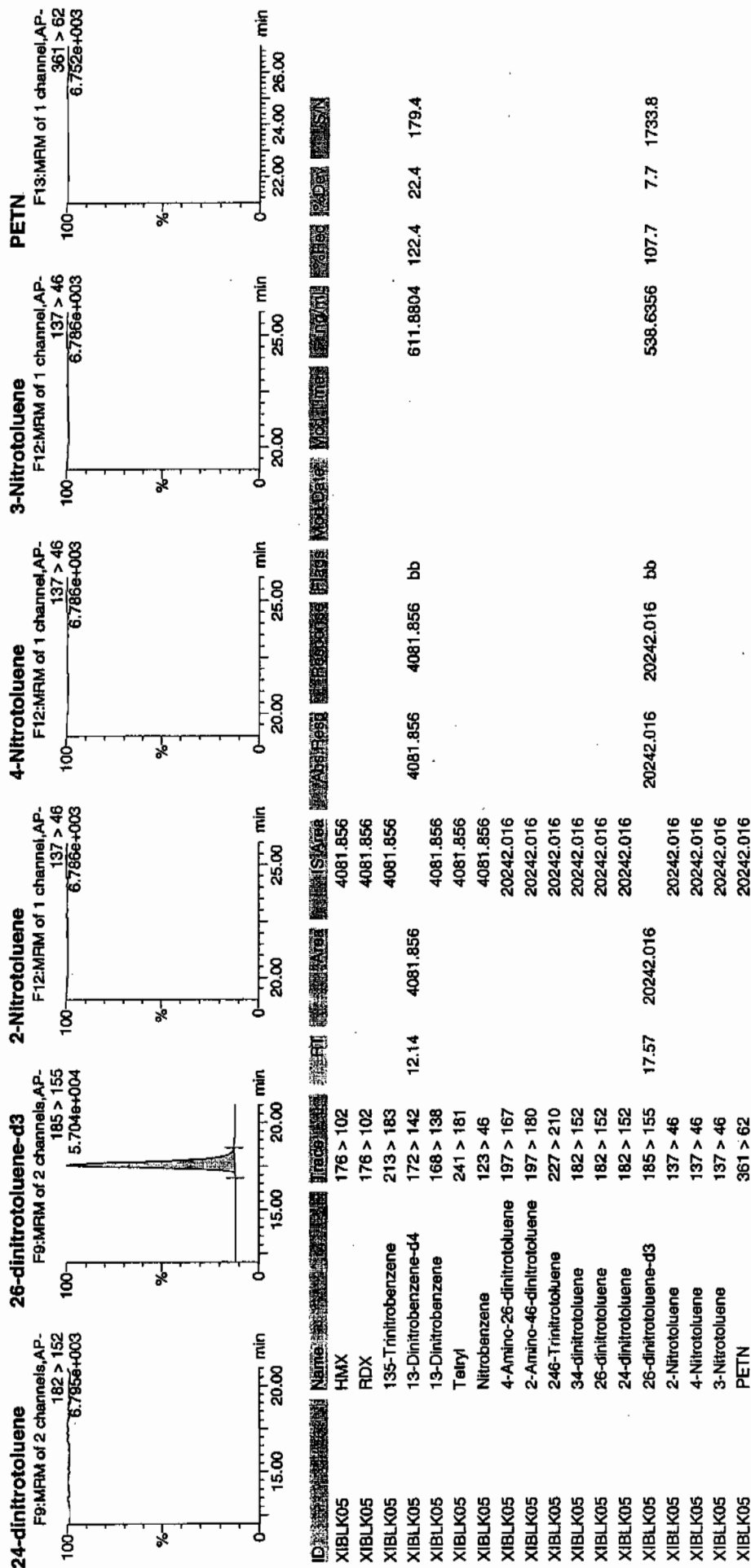
11/13/10



Printed: Mon Jan 18 13:16:14 2010, Page 14 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 08-JAN-10 16:55

GEL Data File: EXS01080010.wiff

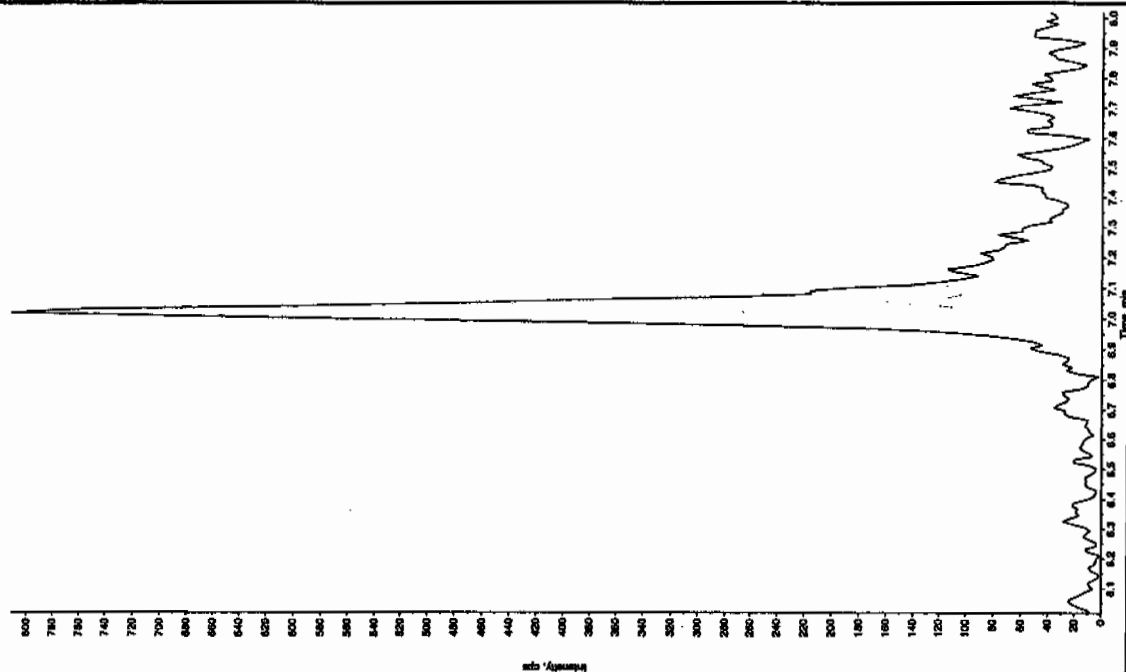
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	4.23
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sample Name: "201102" Sample ID: "11111" File: "EXS01080010.wif"
 Peak Name: "TATB" Mass(es): "257.2004.9 amu"
 Comment: "LCMS-EXP_B" Annotation: "

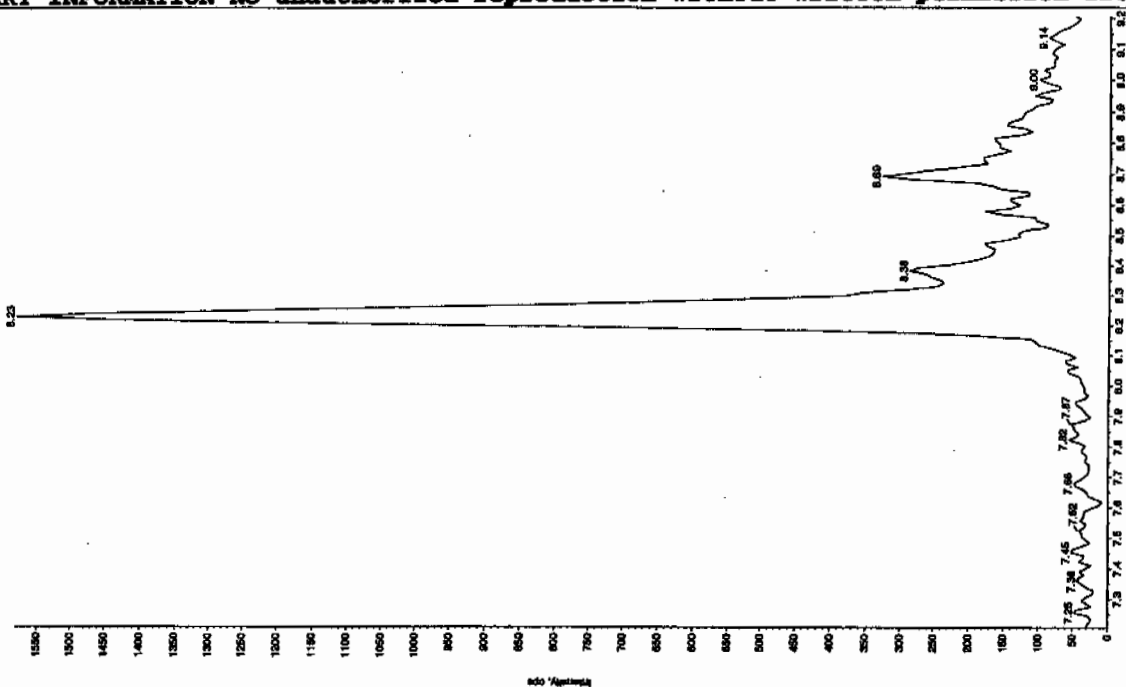
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 4:55:48 PM
 Modified: No



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "201102" Sample ID: "11111" File: "EXS01080010.wif"
 Peak Name: "3S-Dibenzofuran" Mass(es): "182.0460 amu"
 Comment: "LCMS-EXP_B" Annotation: "

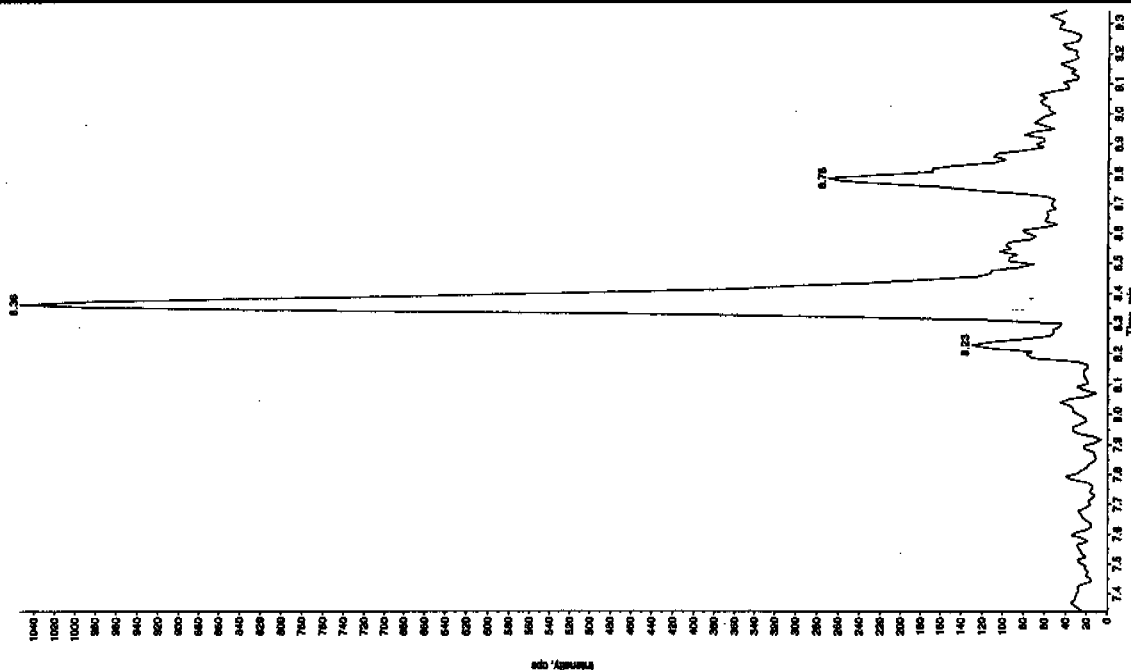
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 4:55:48 PM
 Modified: No



Ann 01/10

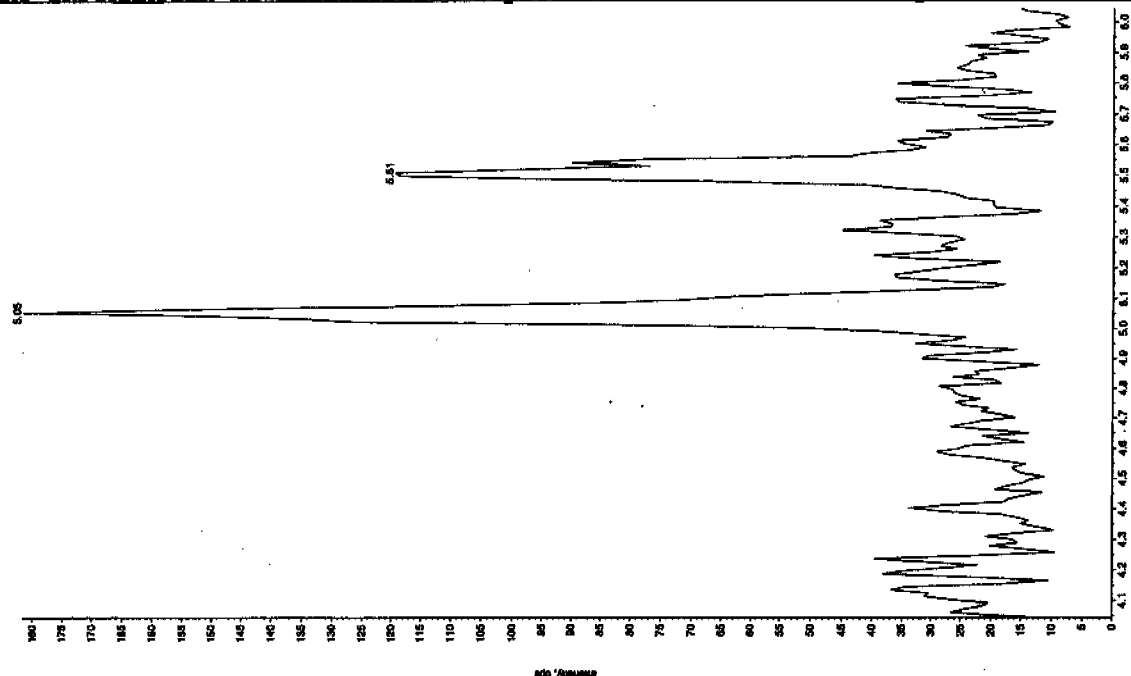
Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS01080010.wif"
 Peak Name: "34-Dinitrochlorobenzene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: X/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 4:55:48 PM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS01080010.wif"
 Peak Name: "26-Dinitro-4-nitrochlorobenzene" Mass(es): "186.0/165.0 amu"
 Comment: "LCMSSEXP_B" Annotation: ""

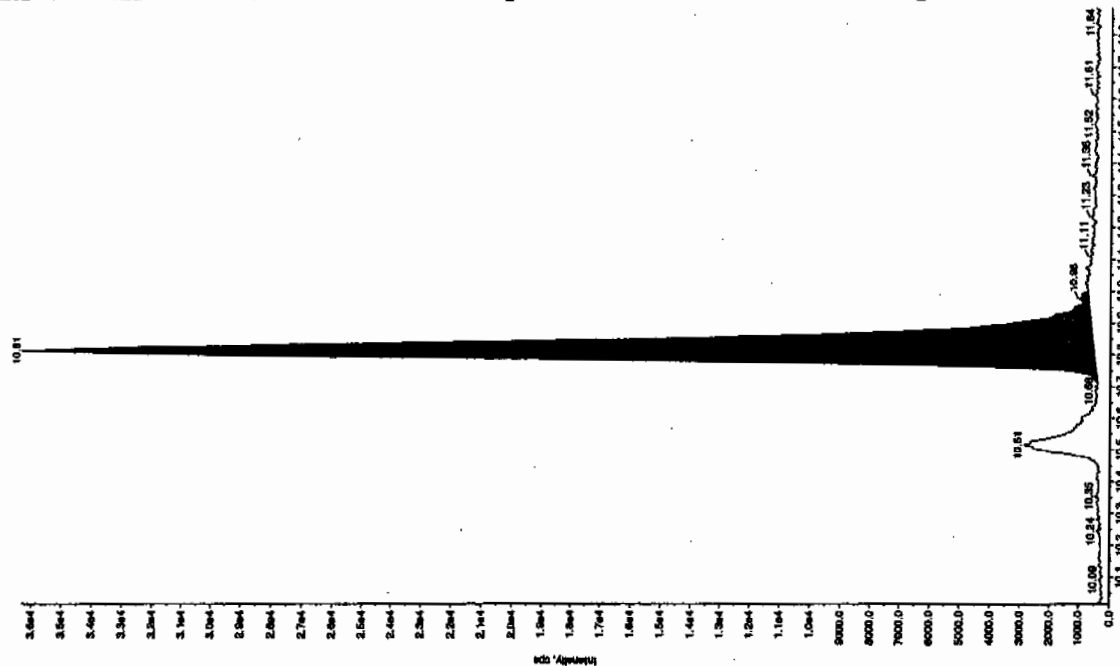
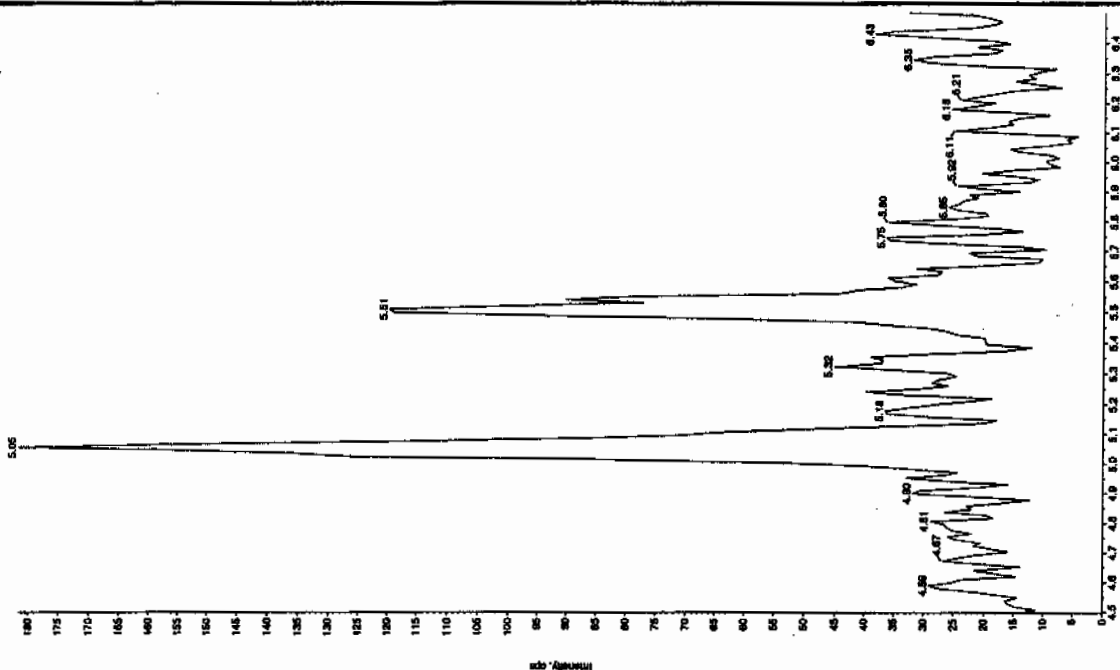
Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 4:55:48 PM
 Modified: No



HEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLX02" Sample ID: "11111" File: "EX301060010.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 4:55:48 PM
 Acq. Time: 4:55:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.60 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.52e+005 counts
 Height: 35806.717 cps
 Start Time: 10.7 min
 End Time: 11.0 min

Sample Name: "XBLX02" Sample ID: "11111" File: "EX301060010.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 4:55:48 PM
 Acq. Time: 4:55:48 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.60 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.52e+005 counts
 Height: 35806.717 cps
 Start Time: 10.7 min
 End Time: 11.0 min



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 08-JAN-10 17:27

GEL Data File: EXS01080012.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	2.59
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

data
11/11/10

Sample Name: "XBLK03" Sample ID: "JILRY" File: "EX301080012.wif"

Peak Name: "TATB" Mass(es): 257.2204.9 amu

Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1

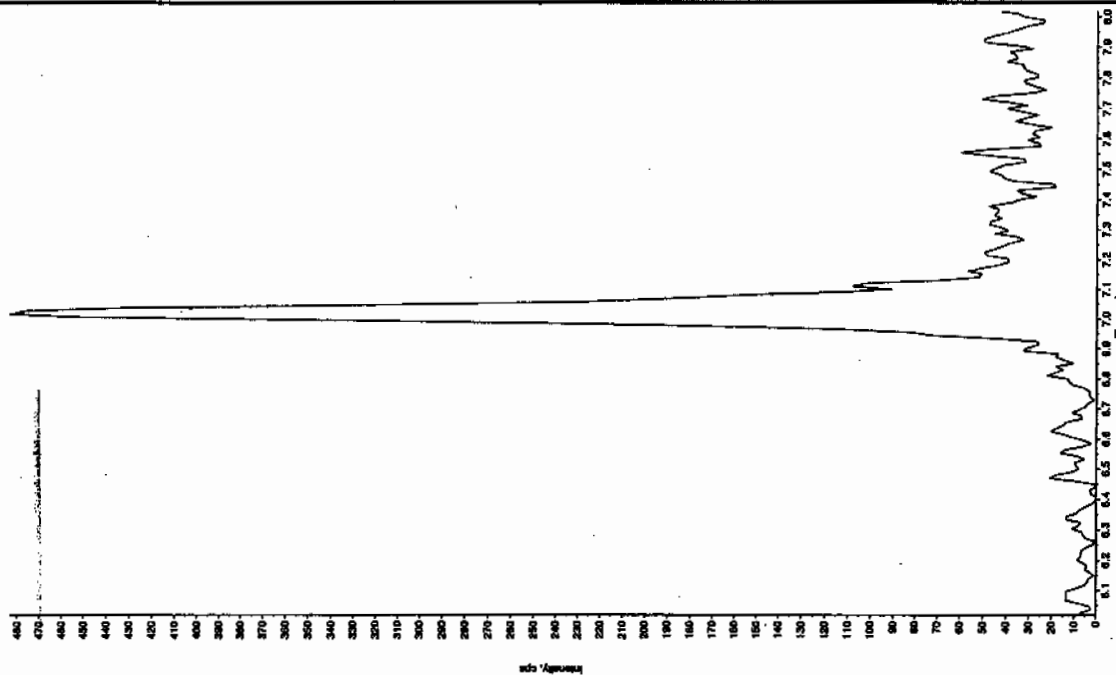
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/8/2010

Acq. Time: 5:27:12 PM

Modified: No



Sample Name: "XBLK03" Sample ID: "JILRY" File: "EX301080012.wif"

Peak Name: "3S-Dinitroariline" Mass(es): 182.046.0 amu

Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1

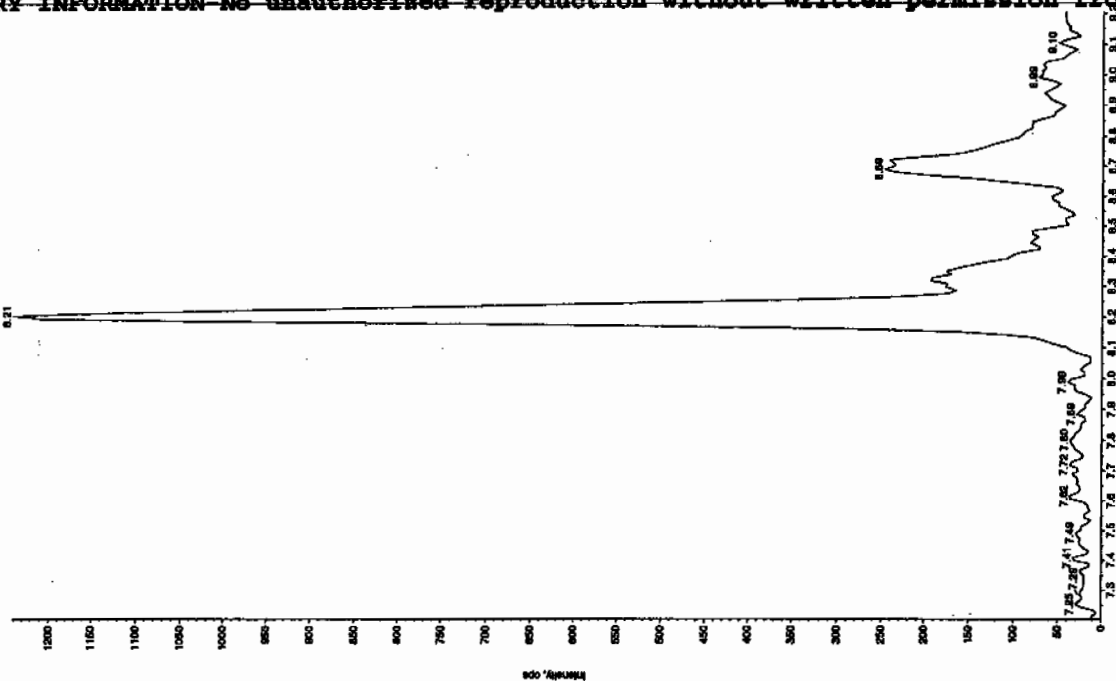
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 1/8/2010

Acq. Time: 5:27:12 PM

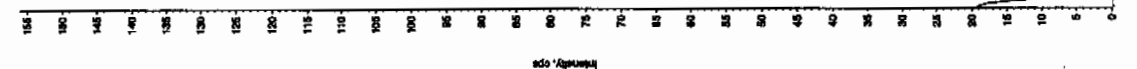
Modified: No



data
11/11/10

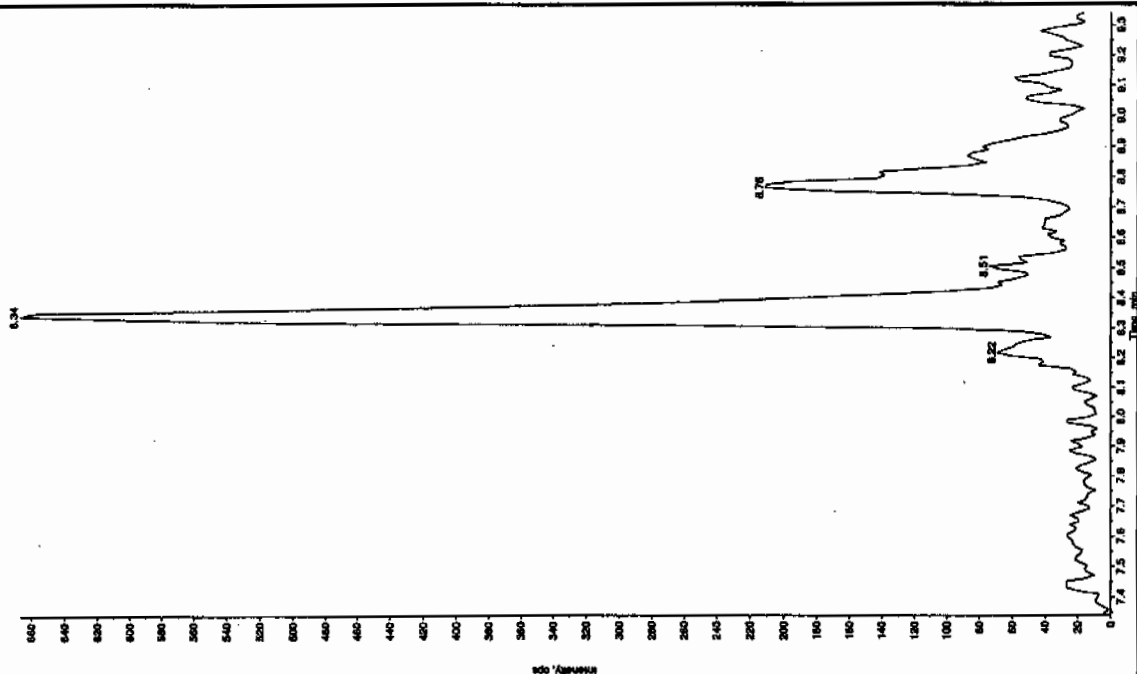
Sample Name: "XIBU03" Sample ID: "TILEF" File: "EXS01060012.wit"
 Peak Name: "28-Diamino-4-nitrobenzene" Mass(es): "166.0463.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/8/2010
 Acq. Time: 5:27:12 PM
 Modified: No

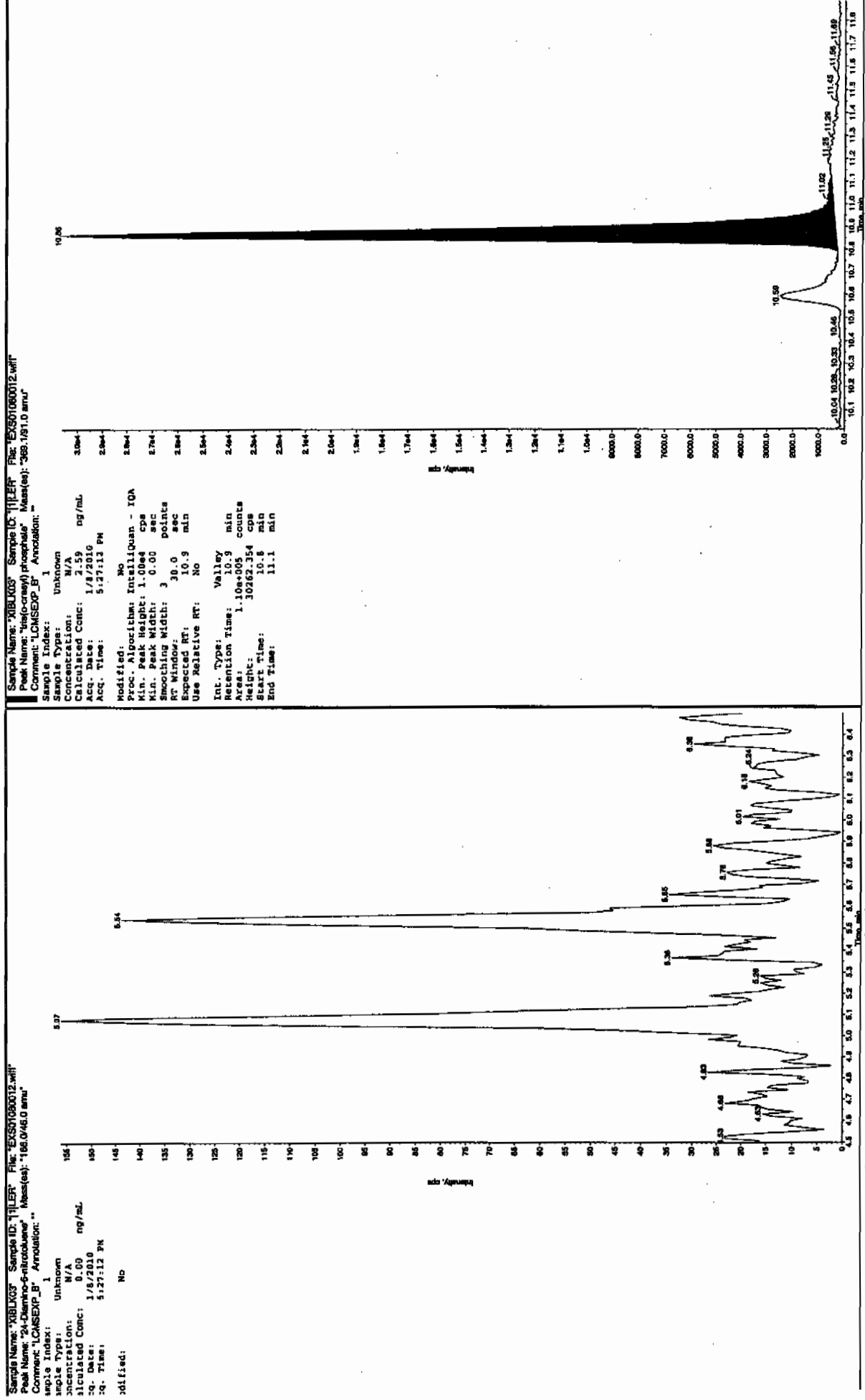


Sample Name: "XIBU03" Sample ID: "TILEF" File: "EXS01060012.wit"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/8/2010
 Acq. Time: 5:27:12 PM
 Modified: No



TEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 08-JAN-10 20:51

GEL Data File: EXS01080025.wiff

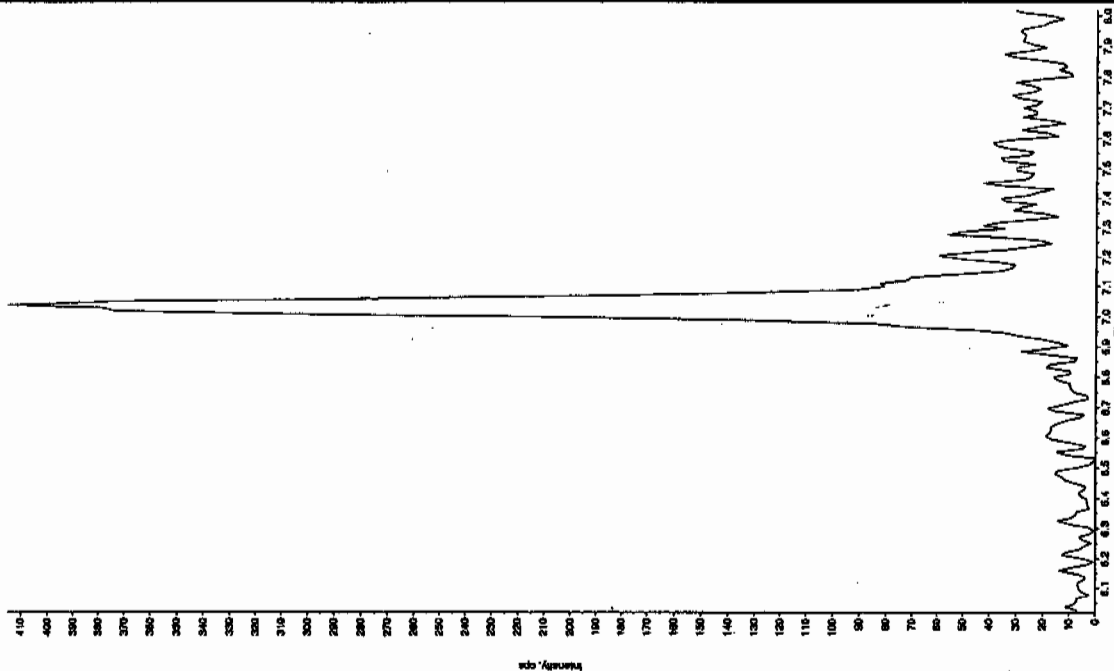
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.45
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

8/26/10

Sample Name: "XBLK24" Sample ID: "TILER" File: "EXS0108025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:51:17 PM
 Modified: No



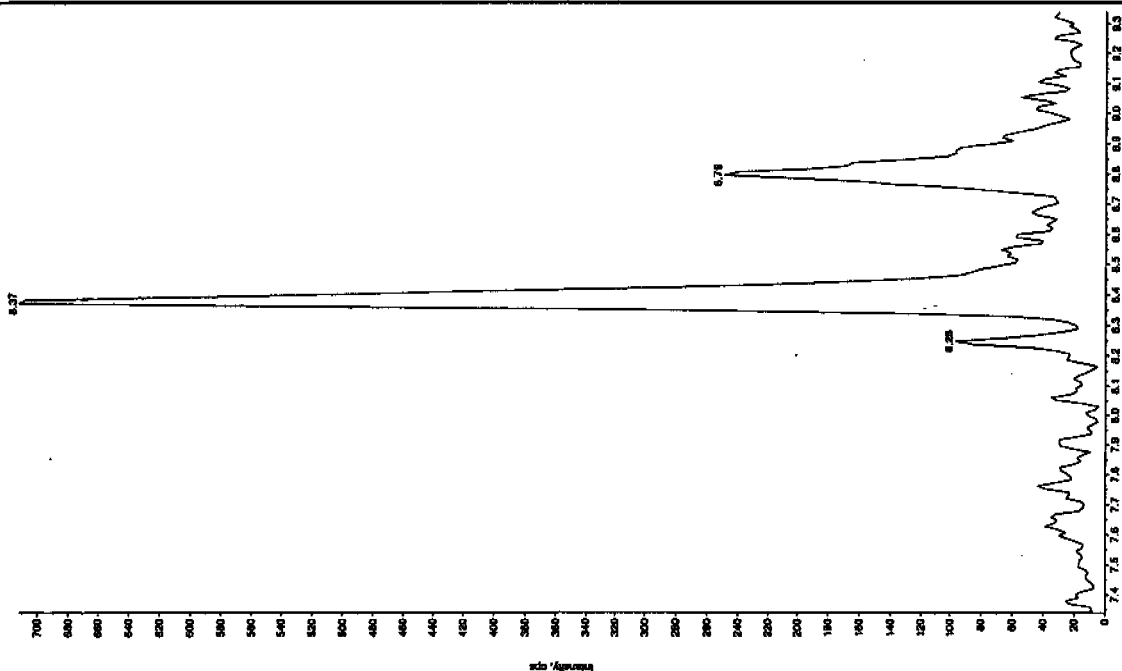
Sample Name: "XBLK24" Sample ID: "TILER" File: "EXS0108025.wif"
 Peak Name: "36-Orlistat" Mass(es): "312.046.0 amu"
 Comment: "LCMSXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:51:17 PM
 Modified: No



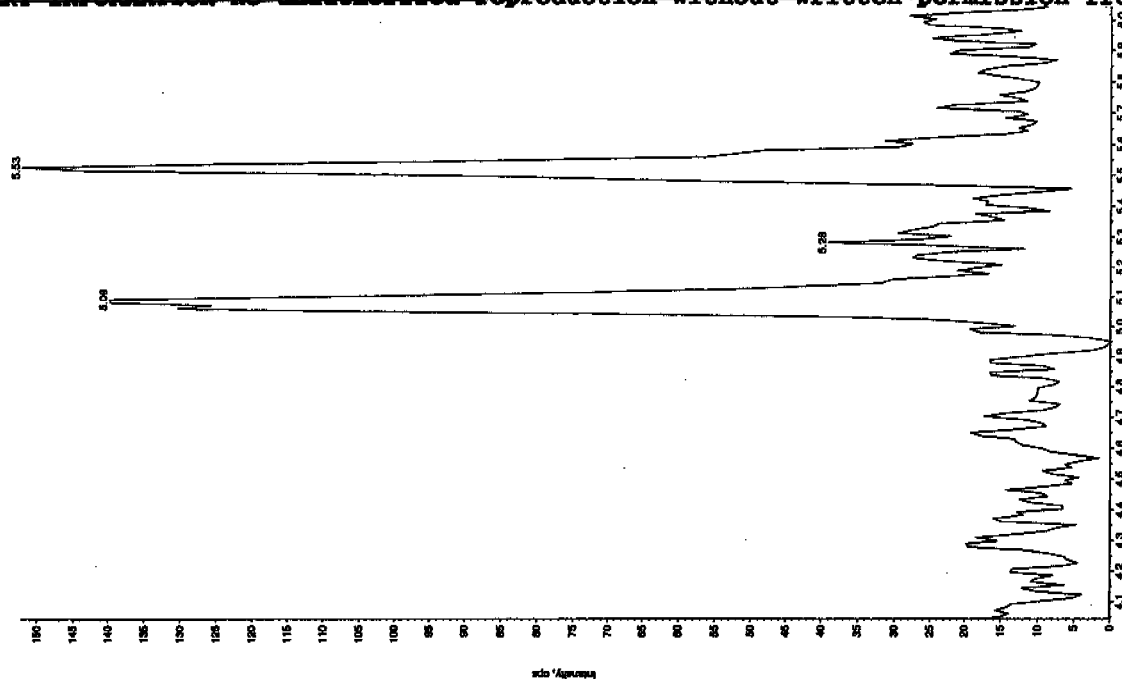
done 8/26/10

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBLKQA" Sample ID: "111ER" File: "EXS01080025.will"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1751.9 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:51:17 PM
 Modified: No



Sample Name: "XBLKQA" Sample ID: "111ER" File: "EXS01080025.will"
 Peak Name: "26-Olefin-4-nitrofluorene" Mass(es): "168.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:51:17 PM
 Modified: No

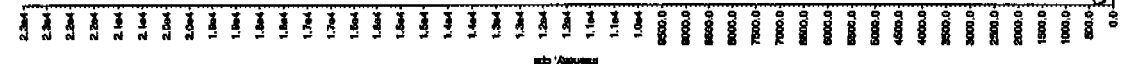
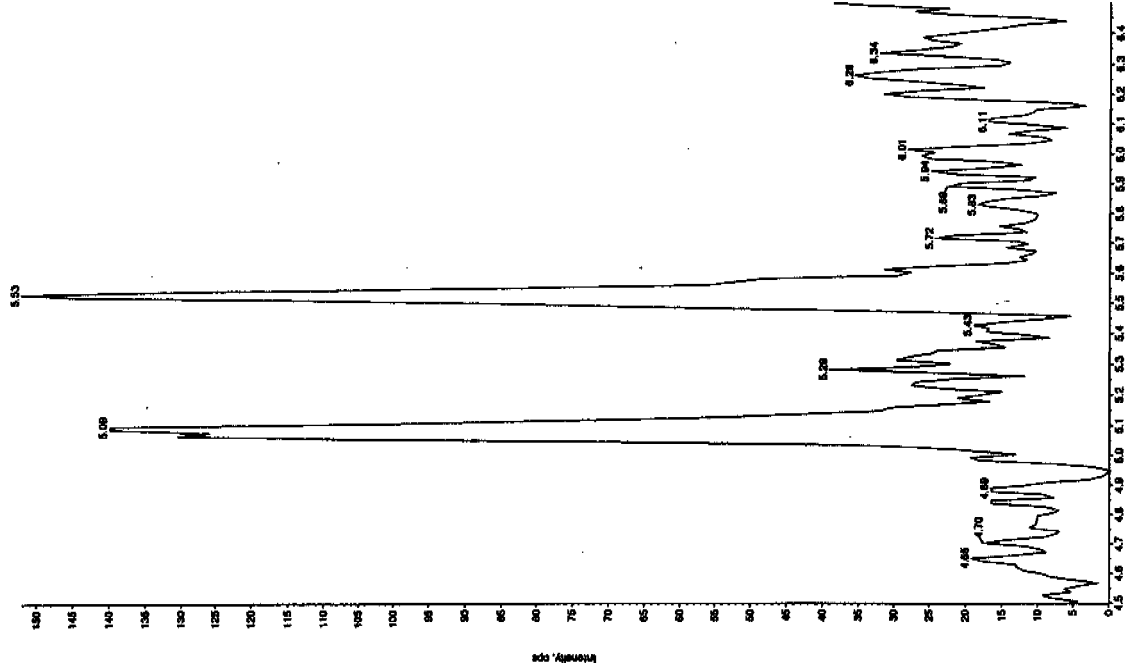


3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBL004" Sample ID: "J11LRF" File: "EX0108025.wif"
 Peak Name: "24-Dimino-6-phosphat" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:51:17 PM
 Modified: No

Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 1.00e4 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: 8.02e+004 counts
 Height: 22681.385 cps
 Start Time: 10.7 min
 End Time: 10.9 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 09-JAN-10 00:15

GEL Data File: EXS01080038.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: "XIBLK05" Sample ID: "T1LER" File: "EX501080038.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

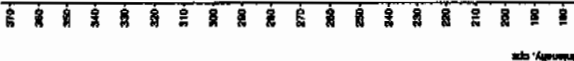
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/9/2010

Acq. Time: 12:15:28 AM

Modified: No



Sample Name: "XIBLK05" Sample ID: "T1LER" File: "EX501080038.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

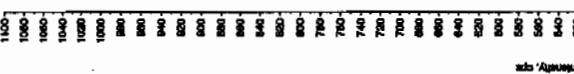
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 1/9/2010

Acq. Time: 12:11:28 AM

Modified: No

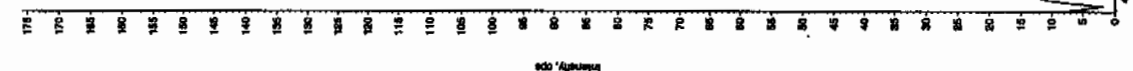


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GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

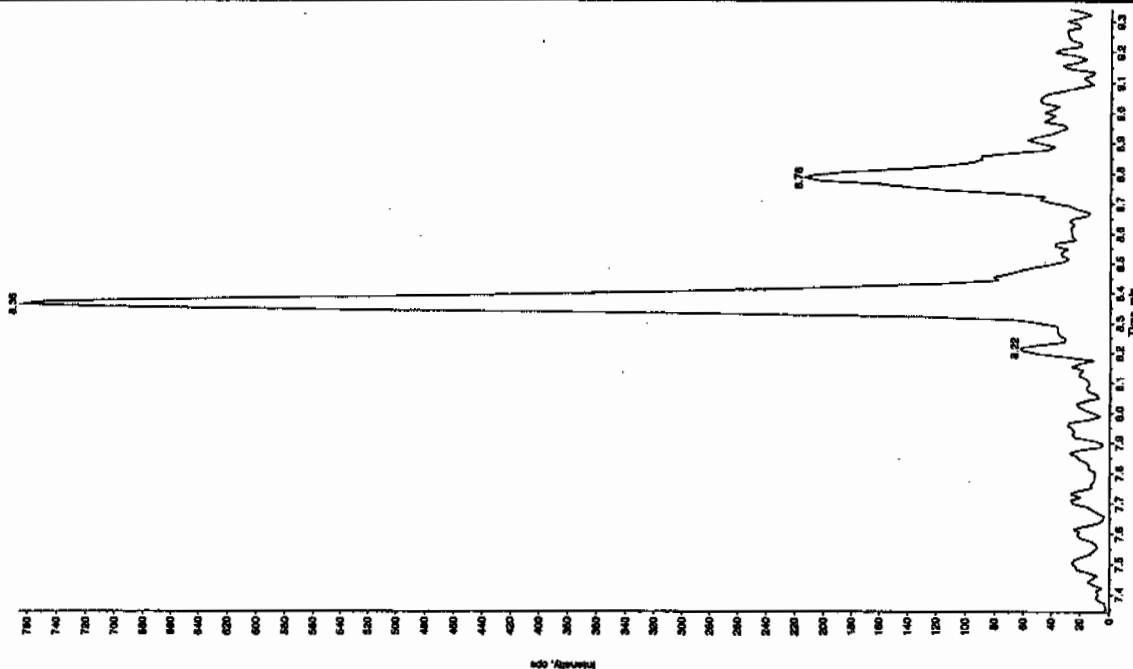
Sample Name: "XBLK05" Sample ID: "1111ER" File: "EX501080038.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.048.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ug/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:15:28 AM
 Modified: NO

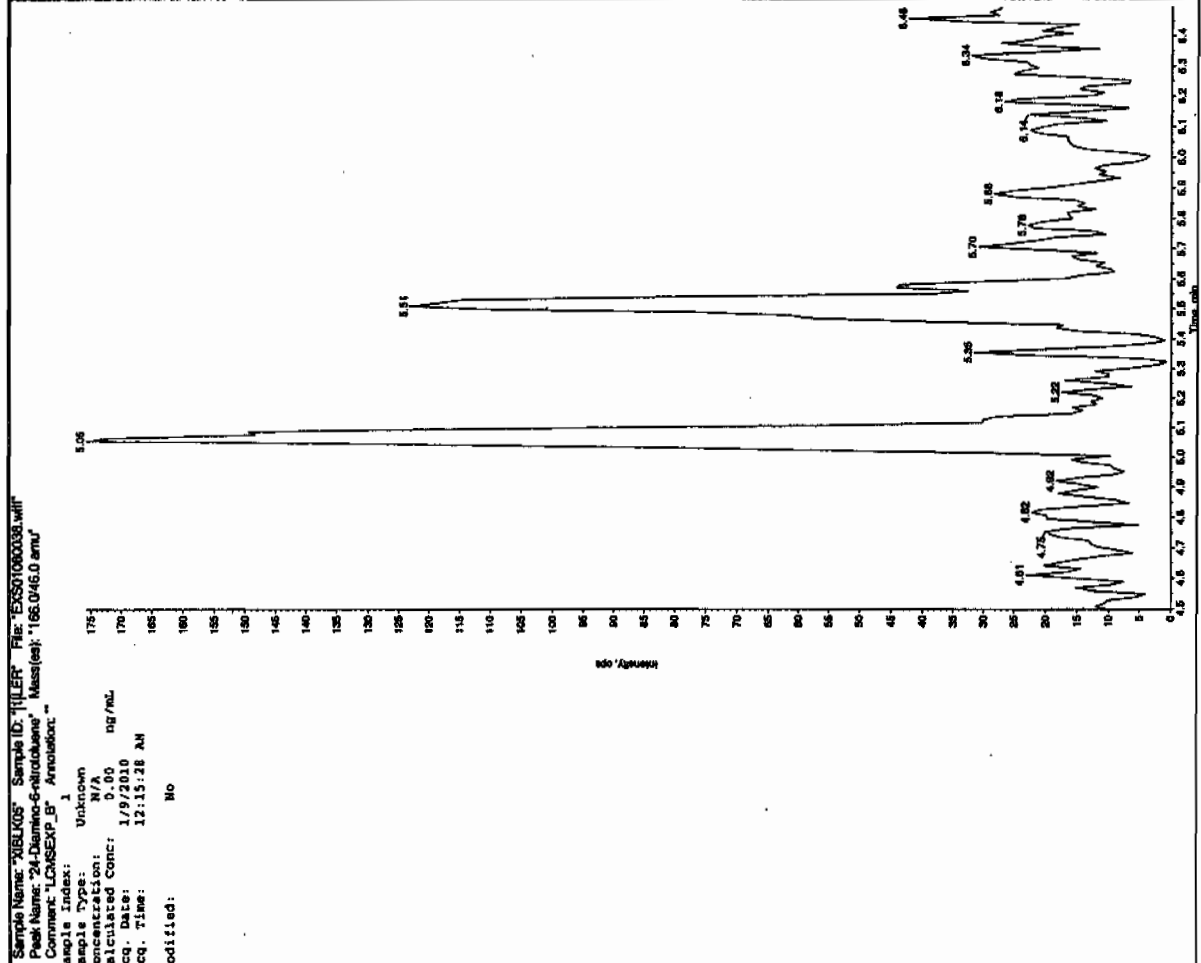
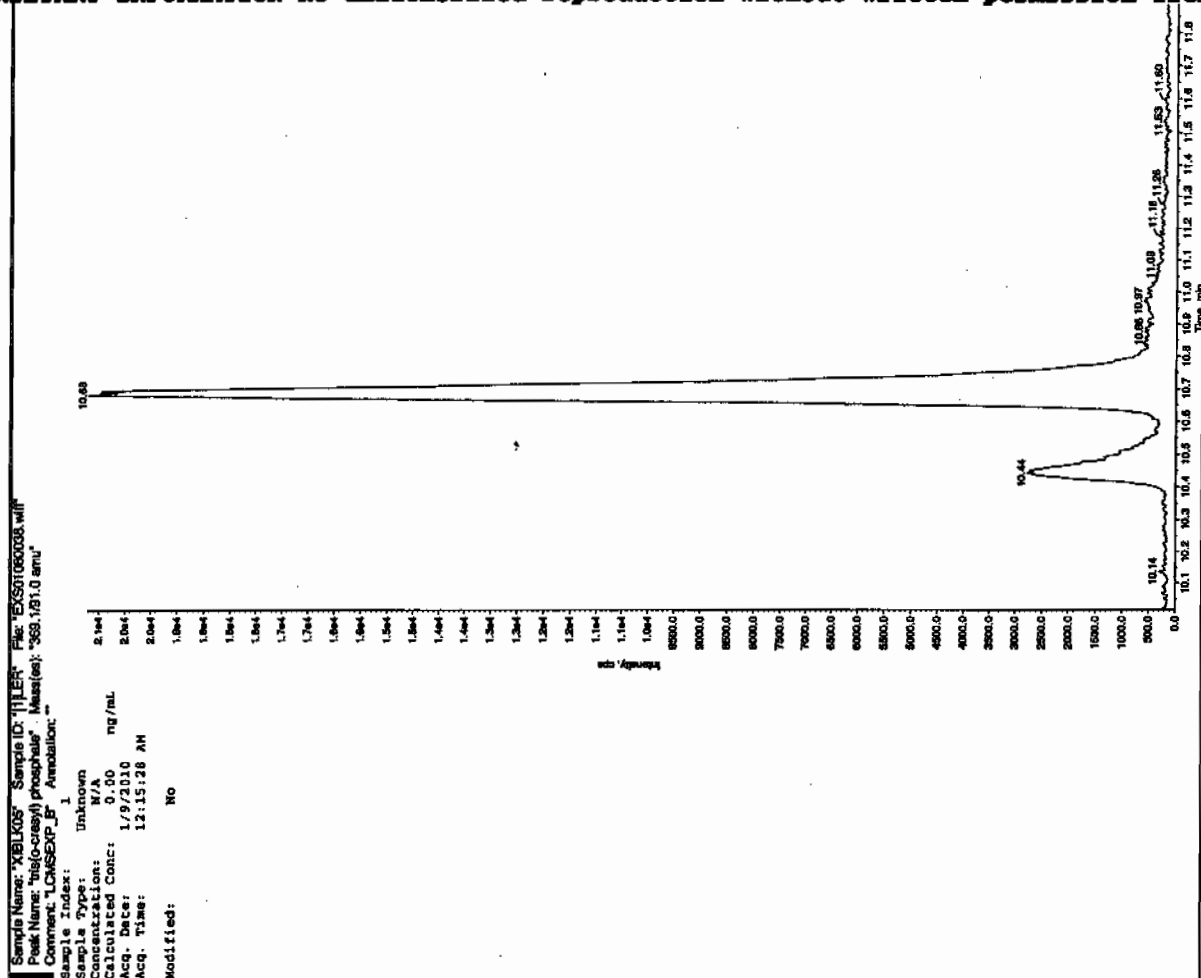


Sample Name: "XBLK05" Sample ID: "1111ER" File: "EX501080038.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "162.1715.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ug/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:15:28 AM
 Modified: NO



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 09-JAN-10 01:02

GEL Data File: EXS01080041.wiff

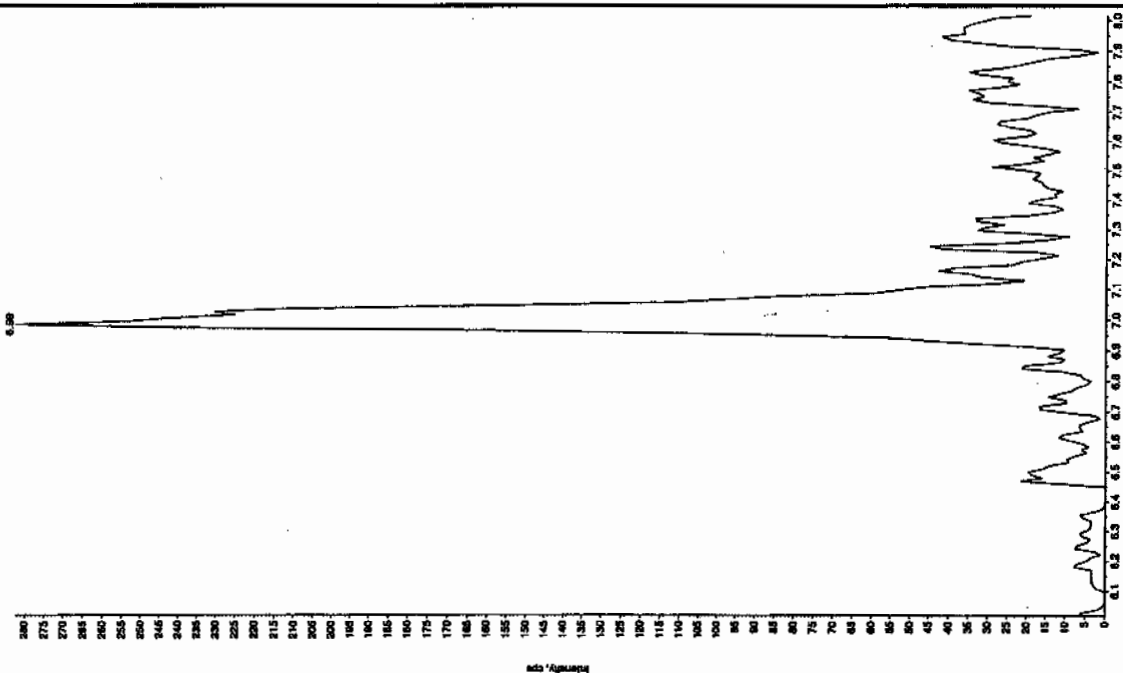
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.172
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

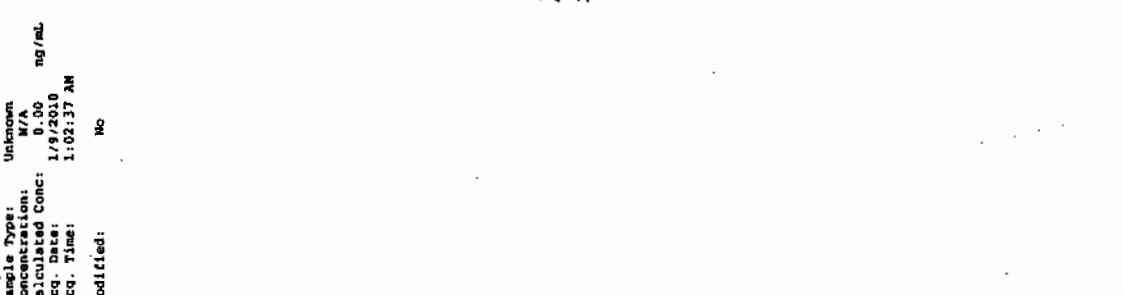
Sample Name: "XIBLK06" Sample ID: "TILFR" File: "EX501080041.wif"
 Peak Name: "35-Dinitrobenzyl" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/9/2010
 Acq. Date: 1:02:37 AM
 Modified: No



Sample Name: "XIBLK06" Sample ID: "TILFR" File: "EX501080041.wif"
 Peak Name: "TATB" Mass(es): "257.22049 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 1/9/2010
 Acq. Date: 1:02:37 AM
 Modified: No



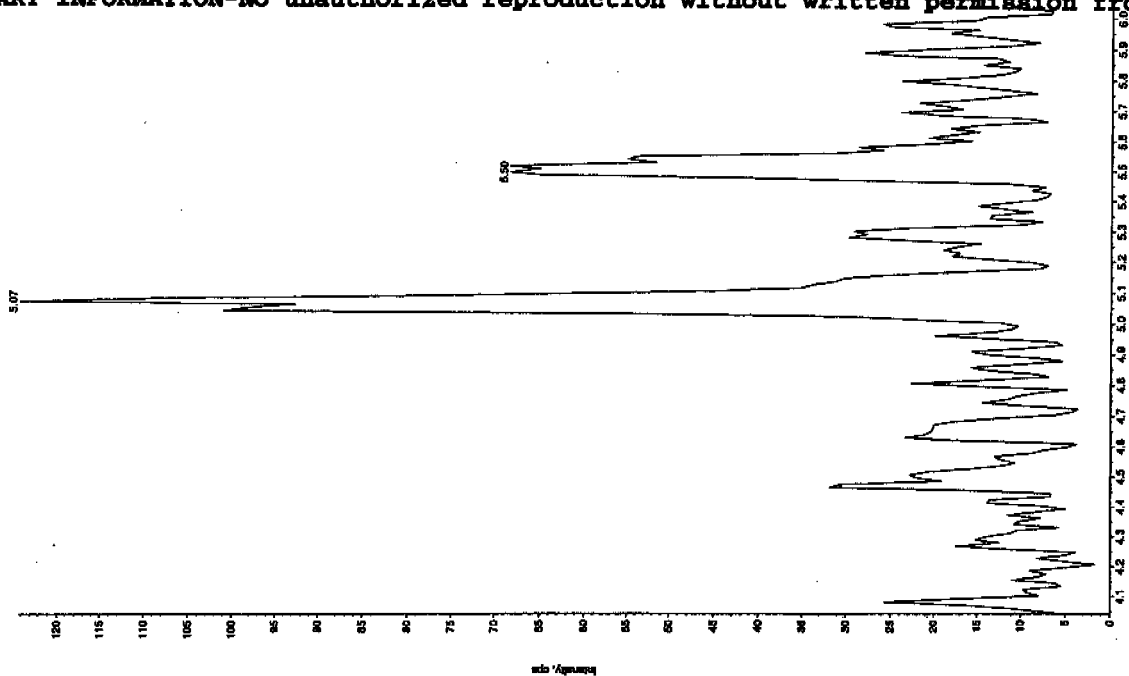
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

01/11/10

01/11/10

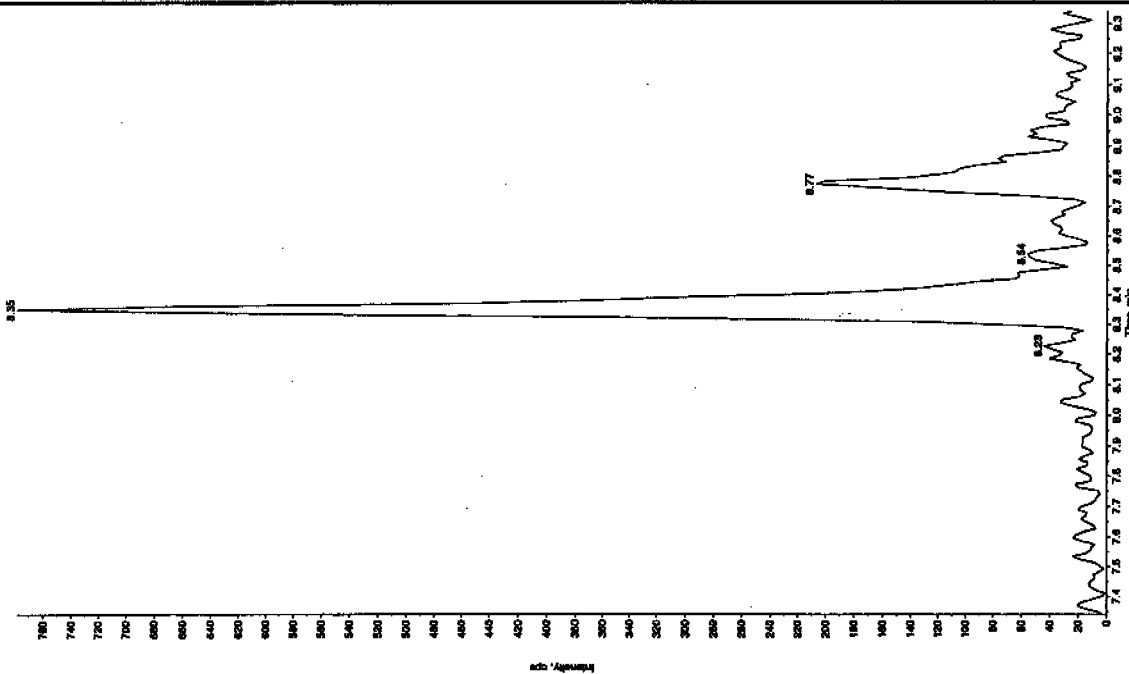
Sample Name: "XBLX06" Sample ID: "HILLER" File: "EX501080041.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:02:37 AM
 Modified: No



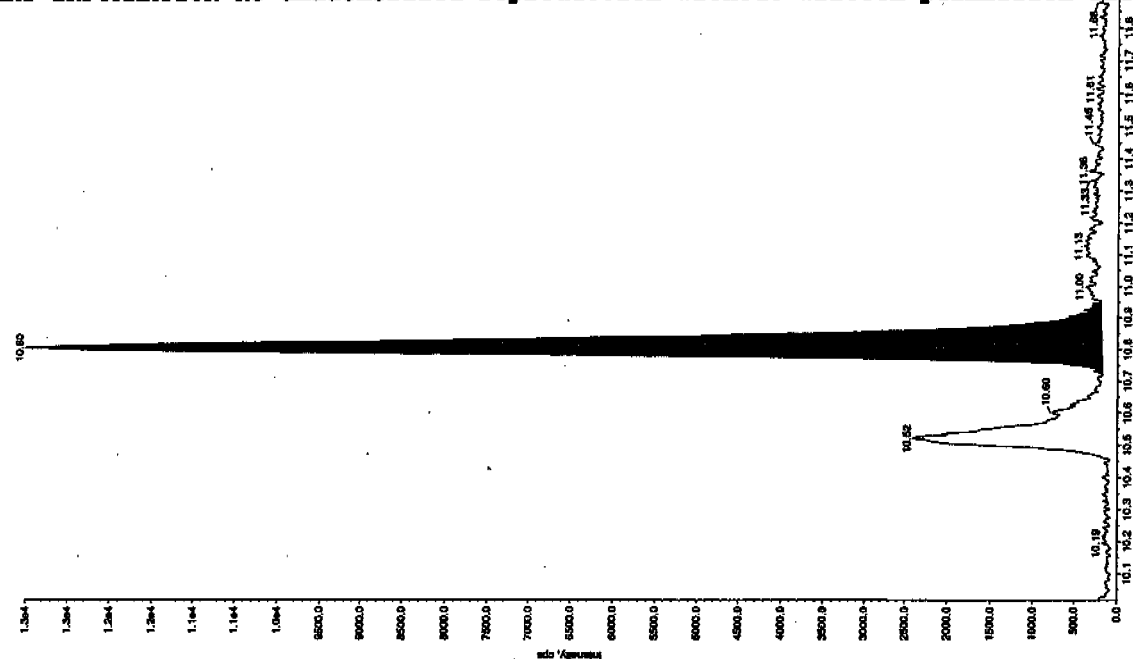
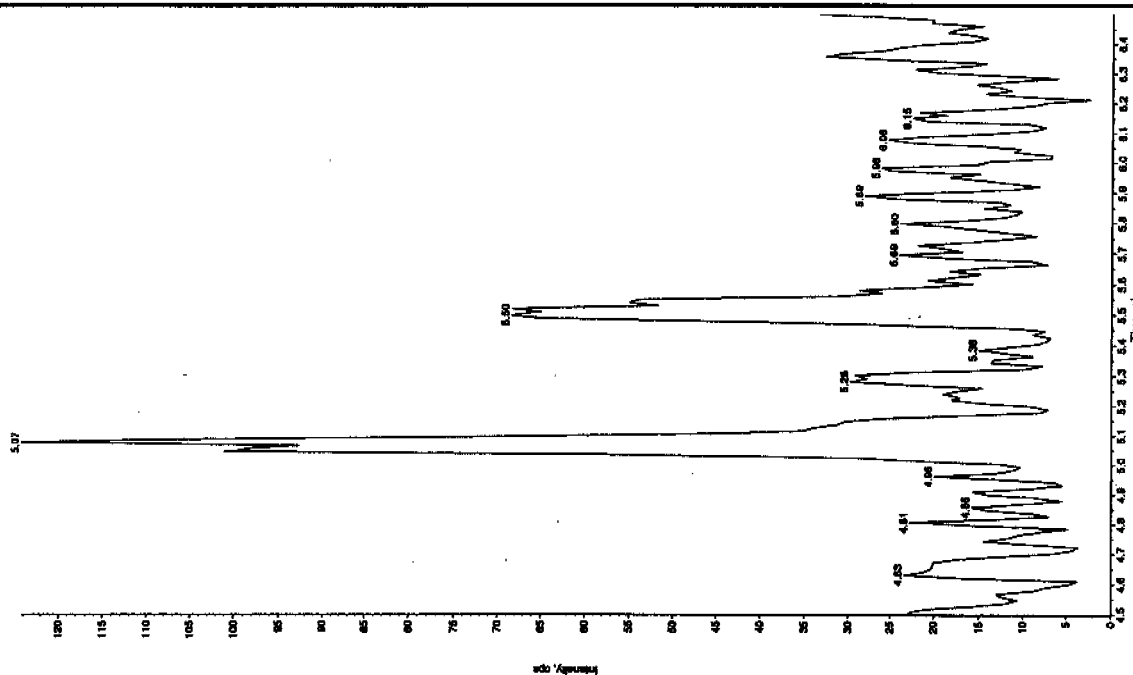
Sample Name: "XBLX06" Sample ID: "HILLER" File: "EX501080041.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:02:37 AM
 Modified: No



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XBL1008" Sample ID: "11LEF" File: "EX501080041.wif"
 Peak Name: "24-Diamino-6-oxo-2,3,4-trihydro-5H-pyrimidin-5-one" Mass(es): "193.046.0 amu"
 Comment: "LONSEXP_B" Annotation: "1"
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:02:37 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative NT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Peak Height: 4.73e+004 counts
 Weight: 12825.457 cps
 Start Time: 10.7 min
 End Time: 11.0 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1036-1

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 09-JAN-10 02:52

GEL Data File: EXS01080048.wiff

Instrument ID: LCMSMS

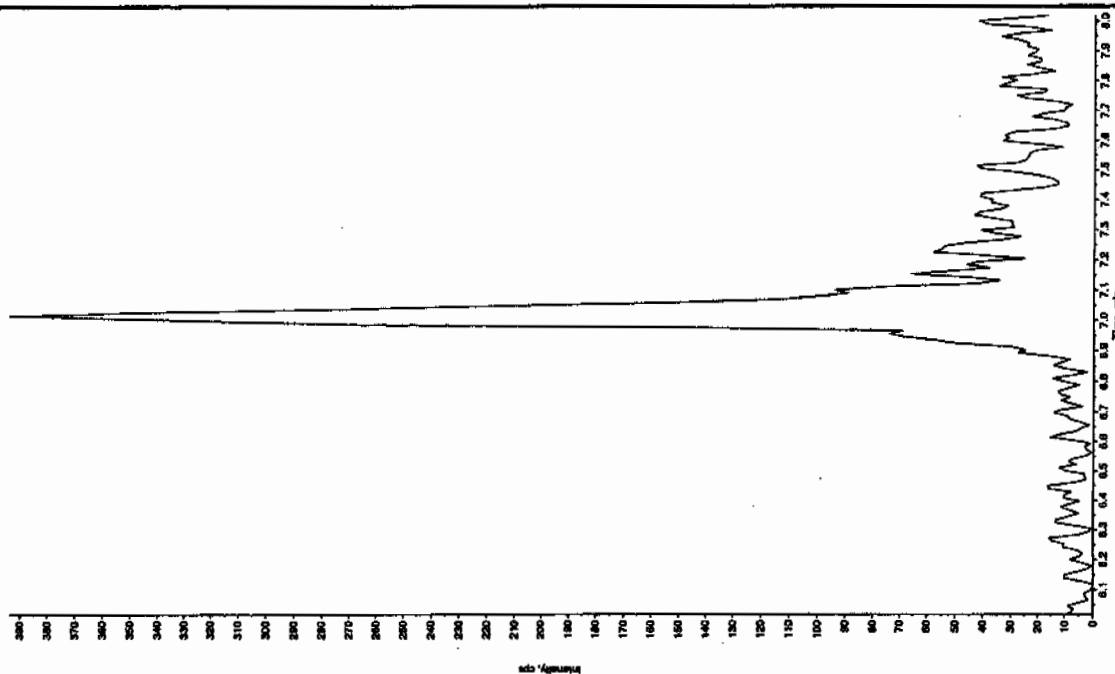
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.49
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

01/11/10
JCH

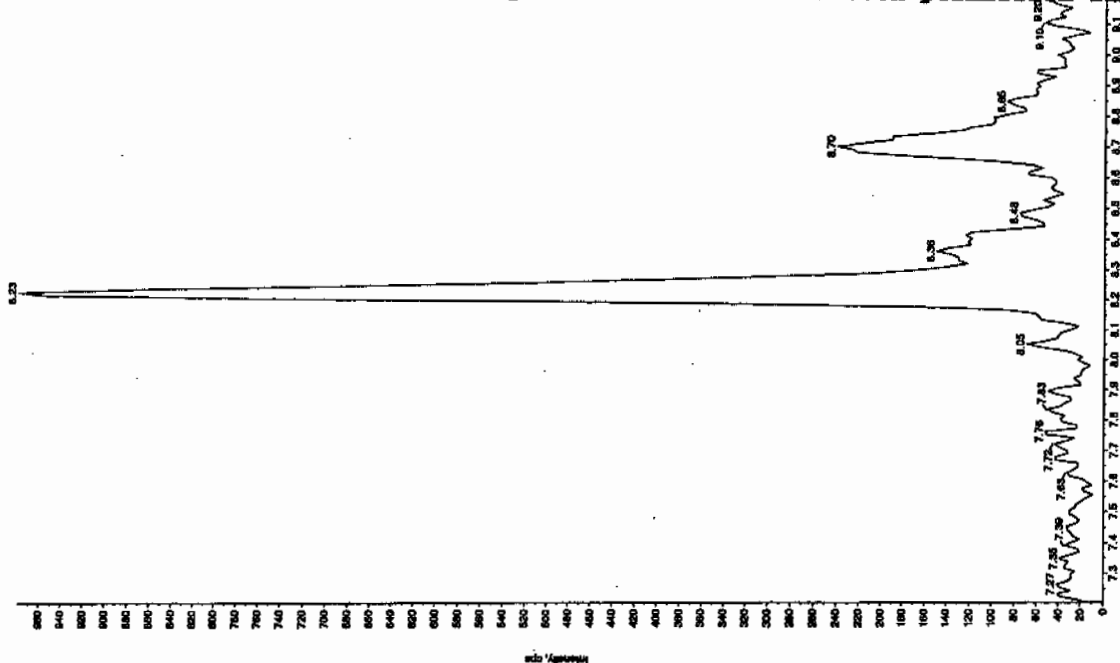
Sample Name: "XELK07" Sample ID: "111111" File: "EX501080048.wif"
Peak Name: "TATB" Mass(es): "257.2204.9 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:52:34 AM
Modified: No



Sample Name: "XELK07" Sample ID: "111111" File: "EX501080048.wif"
Peak Name: "3S-Dinitrobenzoate" Mass(es): "112.0460 amu"
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:52:34 AM
Modified: No

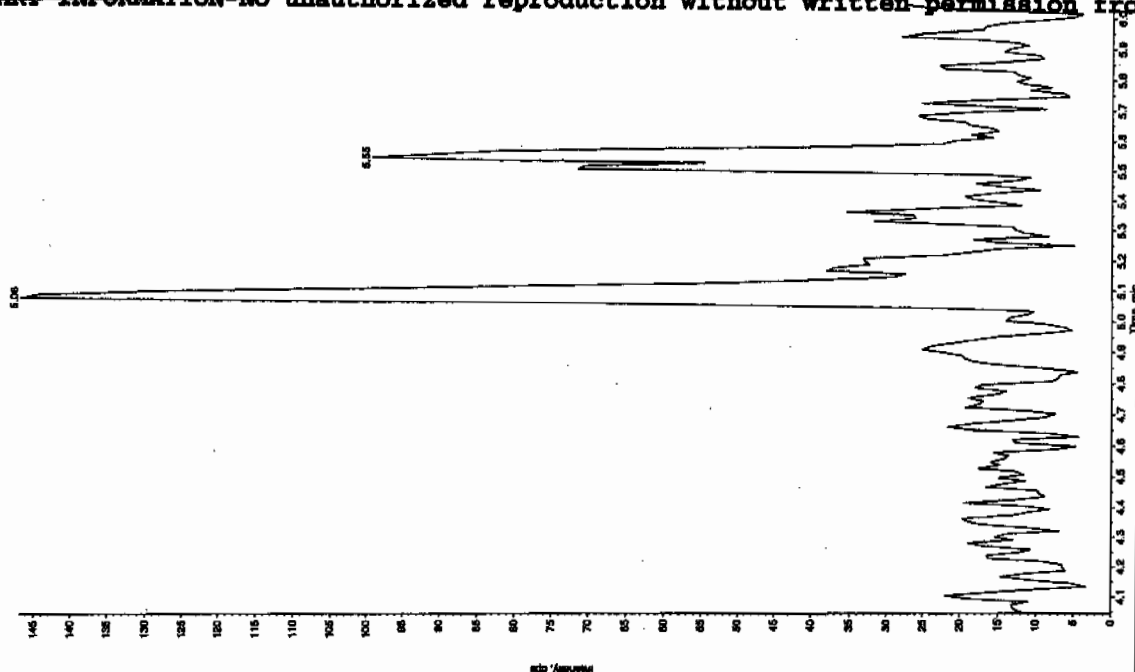


01/11/10
JCH

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

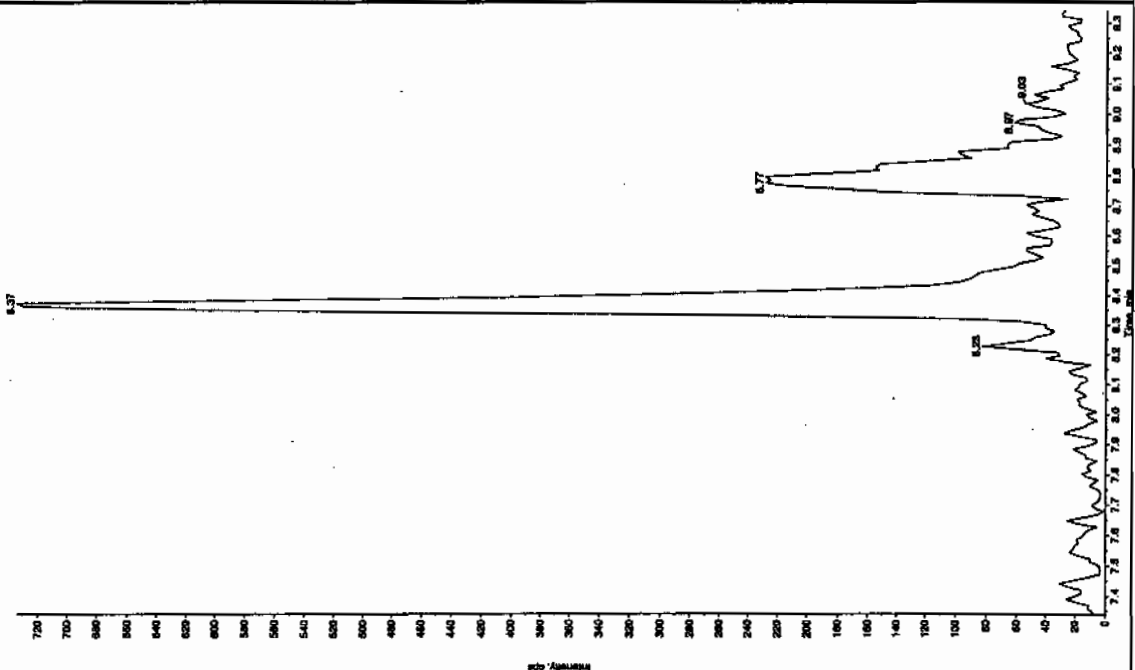
Sample Name: "XBLK07" Sample ID: "111ER" File: "EX301080048.will"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:52:13 AM
 Modified: No



Sample Name: "XBLK07" Sample ID: "111ER" File: "EX301080048.will"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

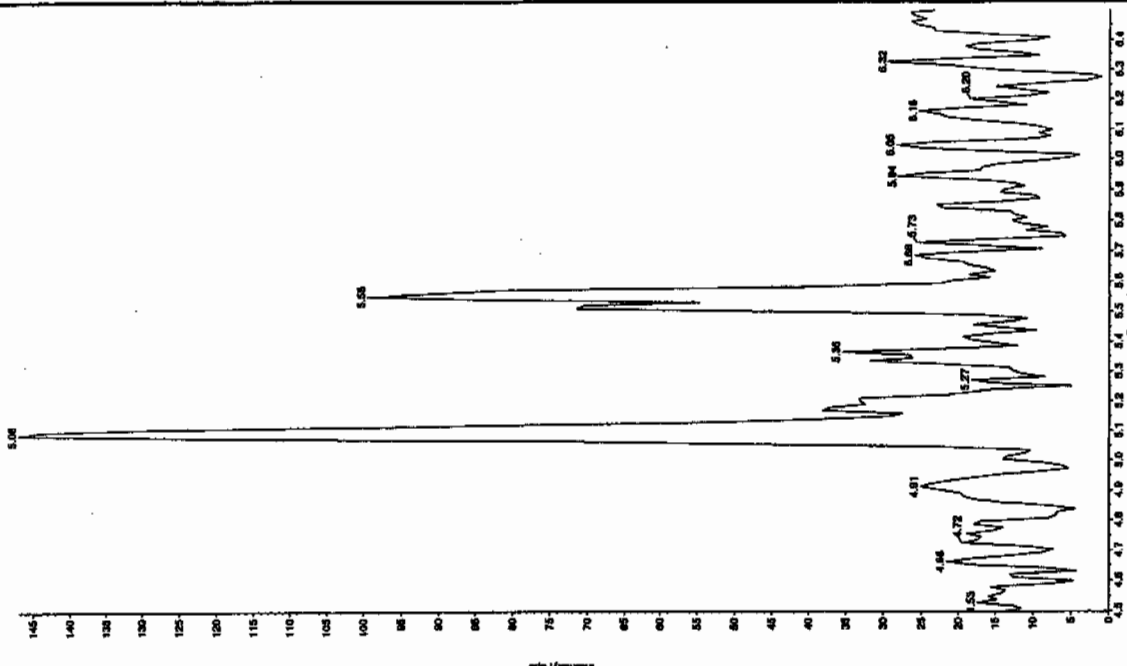
Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:52:13 AM
 Modified: No



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

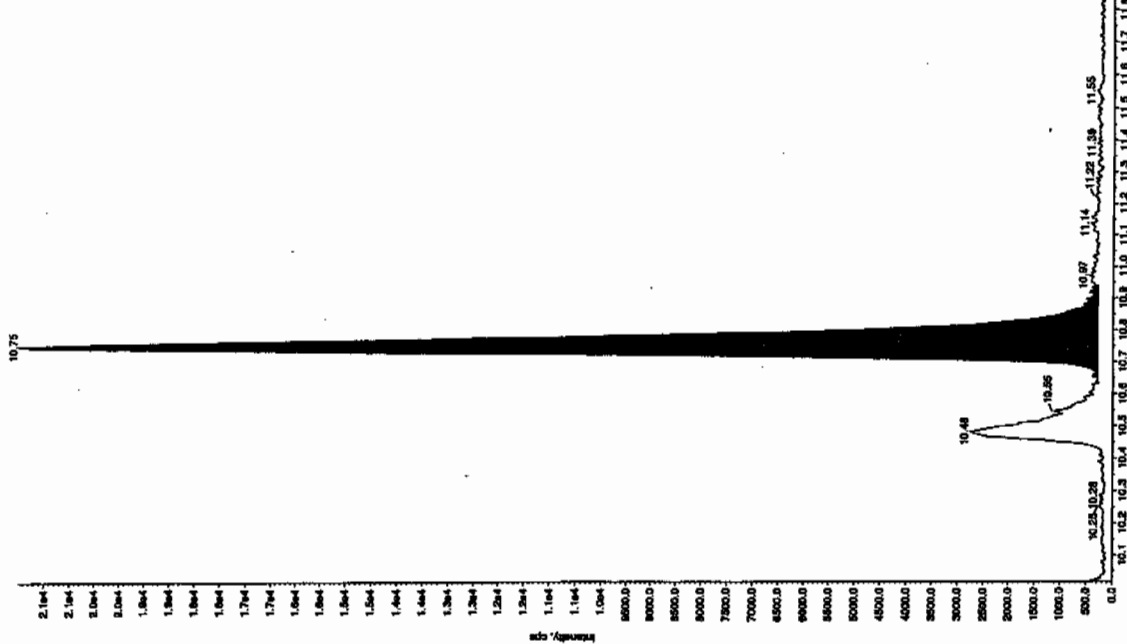
Sample Name: "XELK07" Sample ID: "JILER" File: "EX501060048.will"
 Peak Name: "24-Diamino-6-nitroindane" Mass(es): "168.0/45.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:52:34 AM
 Modified: No



Sample Name: "XELK07" Sample ID: "JILER" File: "EX501060048.will"
 Peak Name: "10-(o-oxo-1-phenyl)" Mass(es): "358.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.49 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:52:34 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Search Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 8.12e+004 counts
 Height: 21186.359 cps
 Start Time: 10.6 min
 End Time: 10.9 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

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

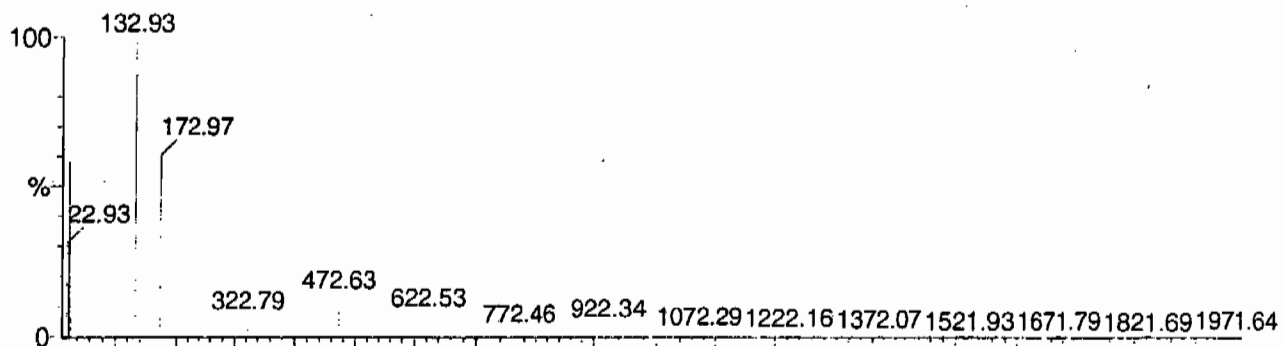
Calibration Report - MS1 Static

Page 1 of 1

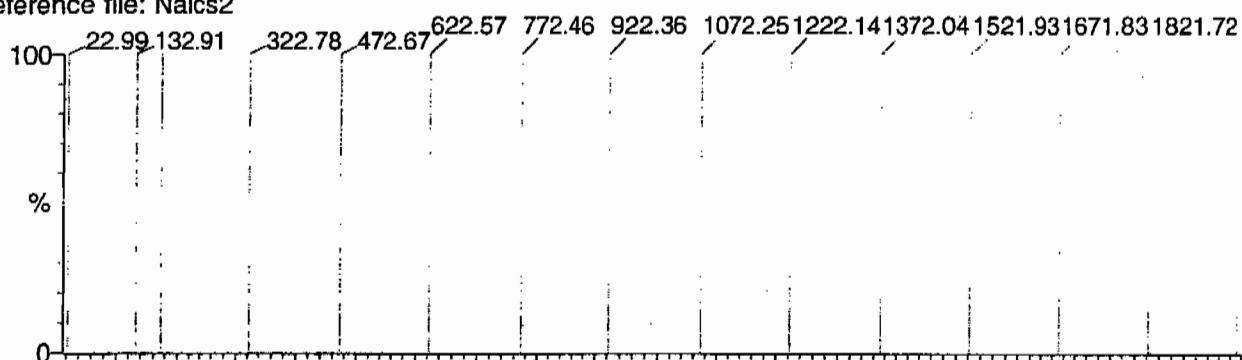
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

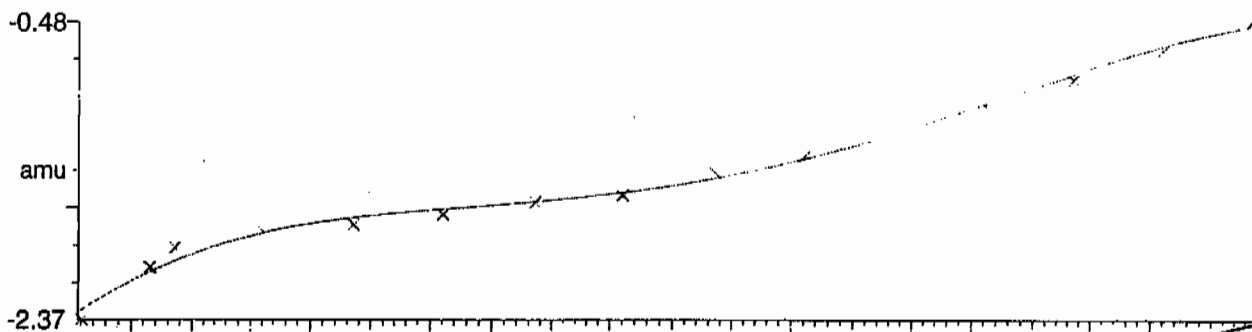
15 matches of 15 tested references



Reference file: Naics2

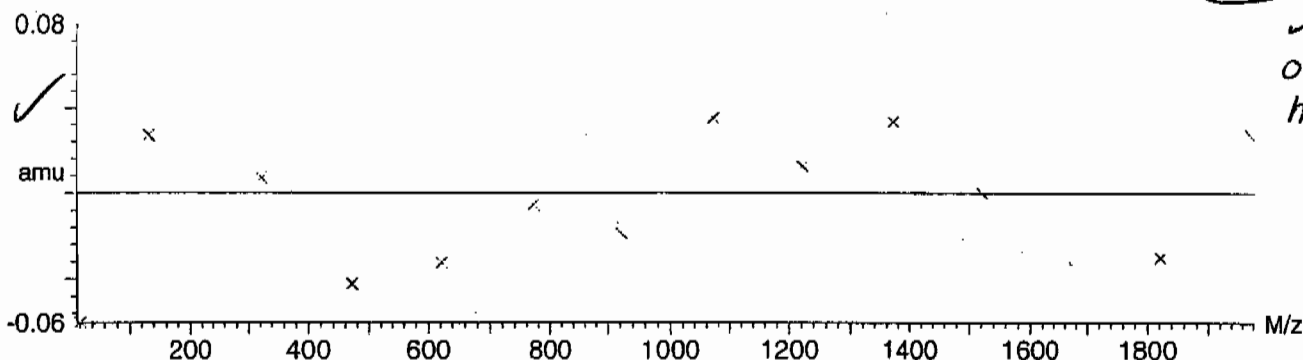


Mass difference (Raw - Ref mass)



Residuals

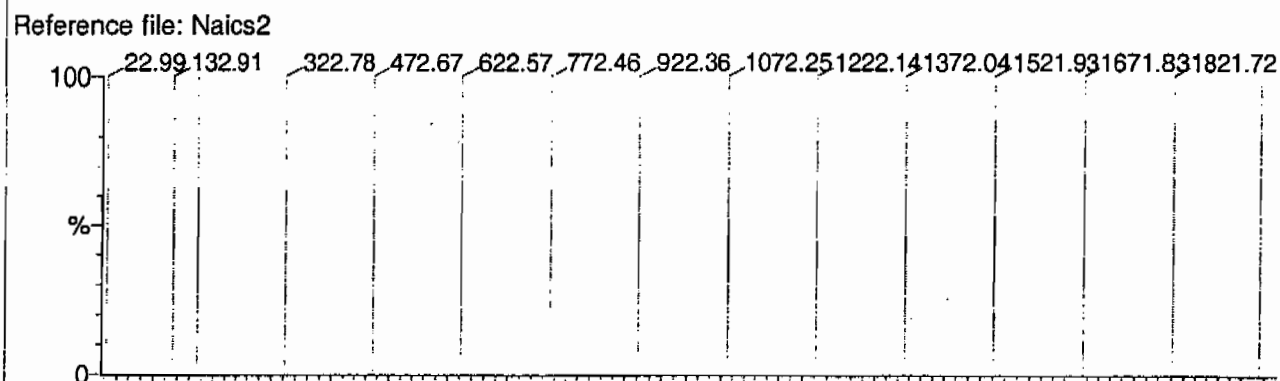
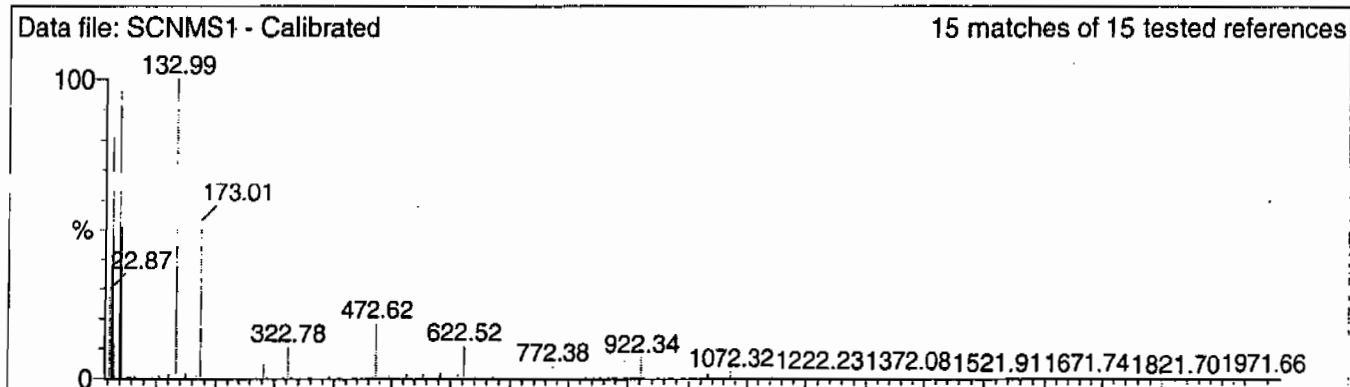
Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



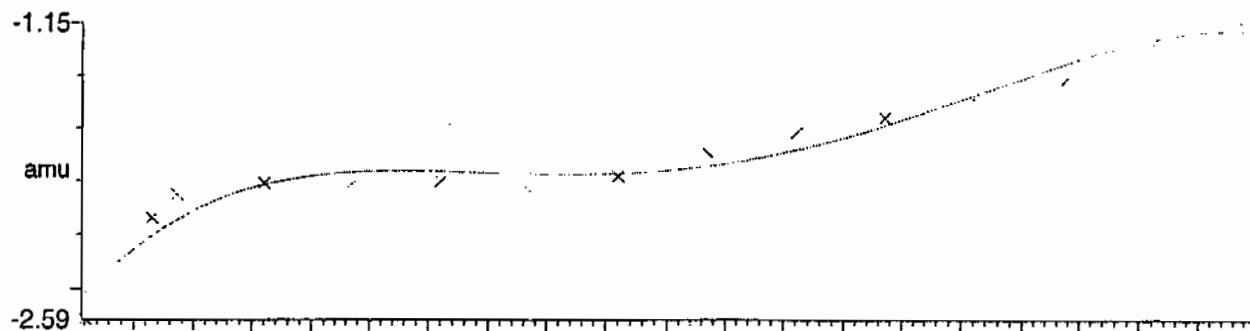
Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Fri Aug 25 10:51:06 2006

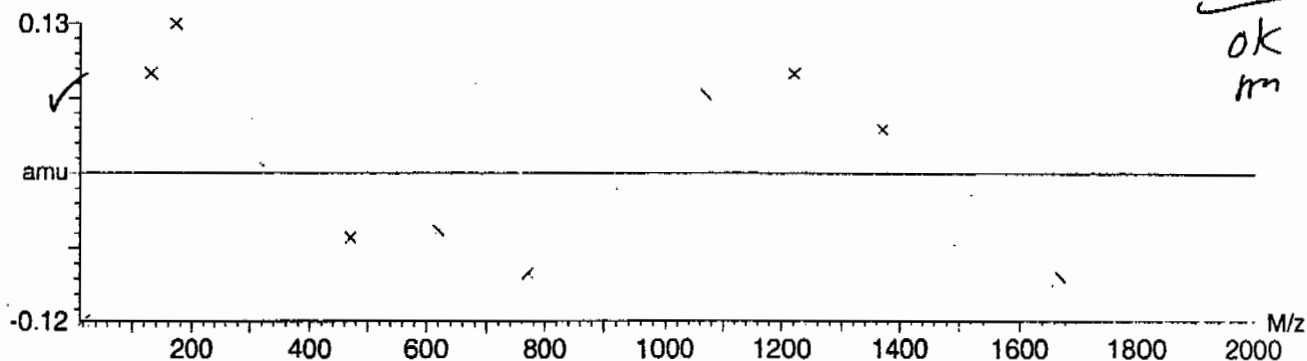


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



ok
m

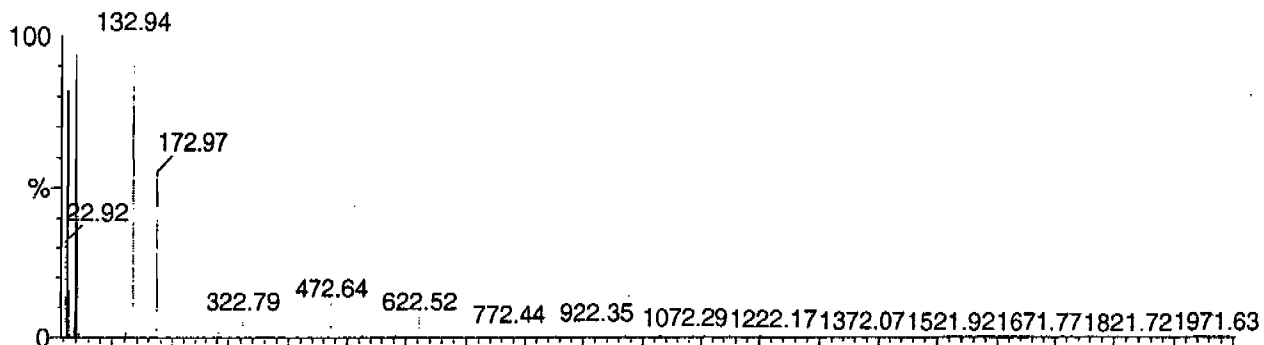
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

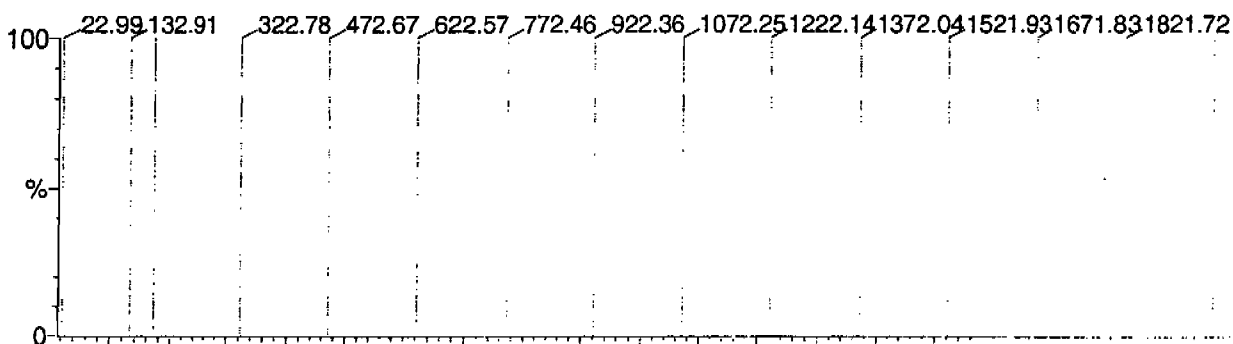
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

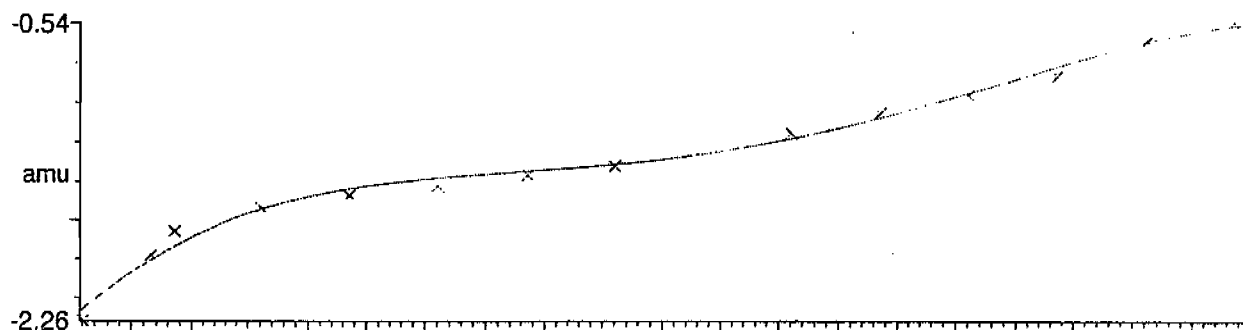
15 matches of 15 tested references



Reference file: Naics2

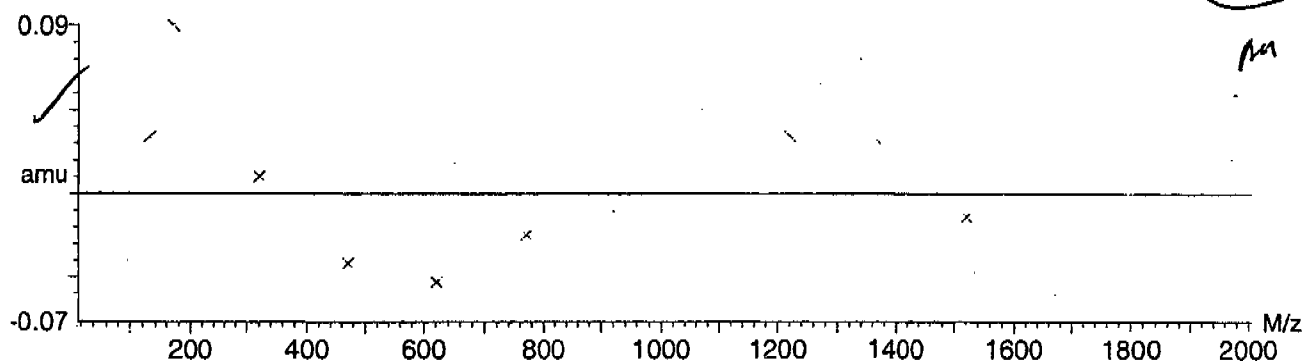


Mass difference (Raw - Ref mass)



Residuals

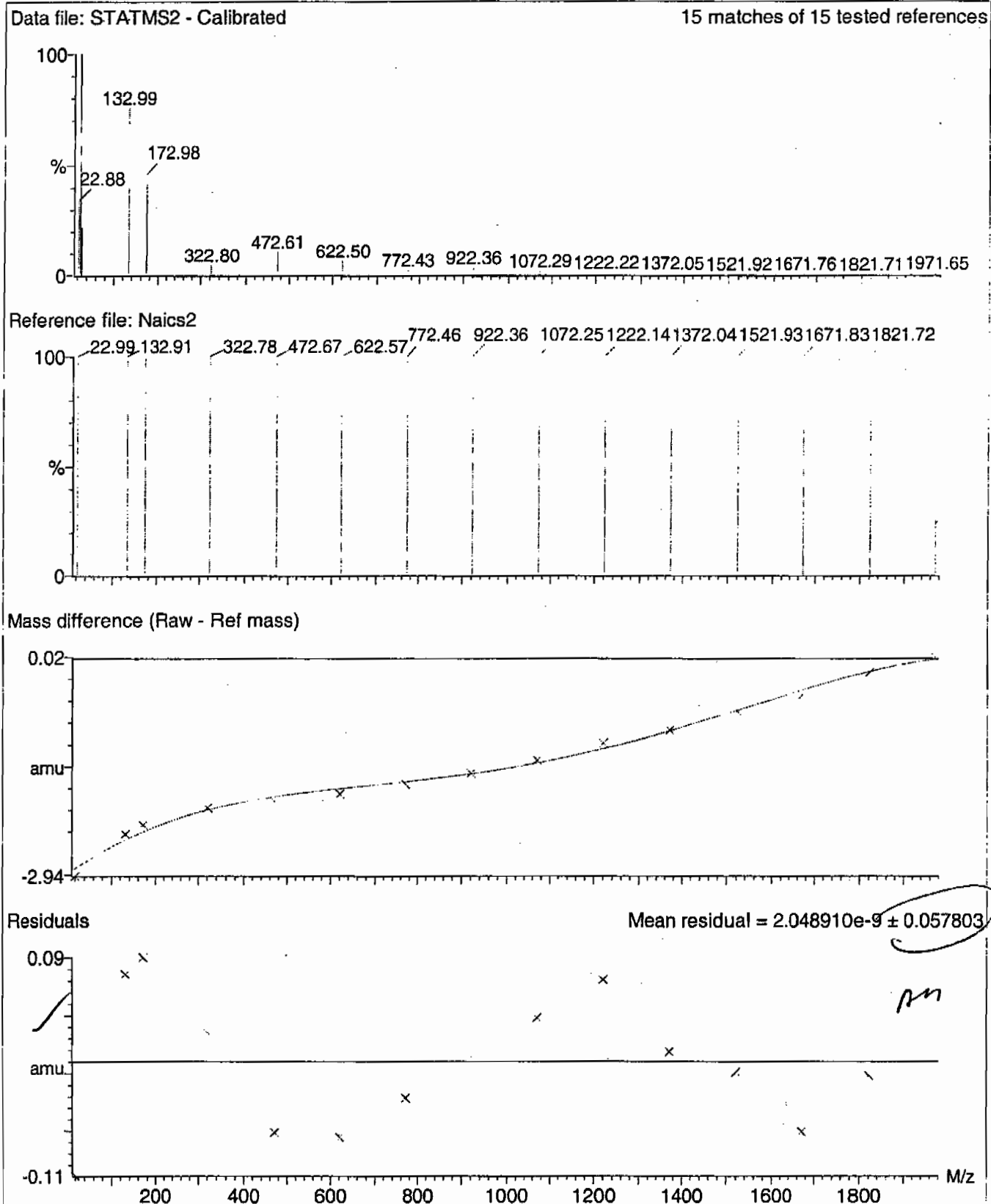
Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



Calibration Report - MS2 Static

Page 1 of 1

Printed: Fri Aug 25 10:52:54 2006



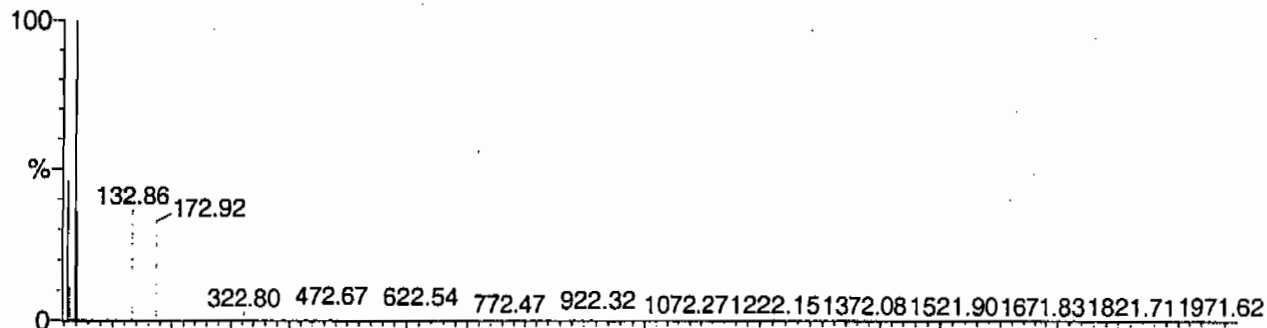
Calibration Report - MS2 Scanning

Page 1 of 1

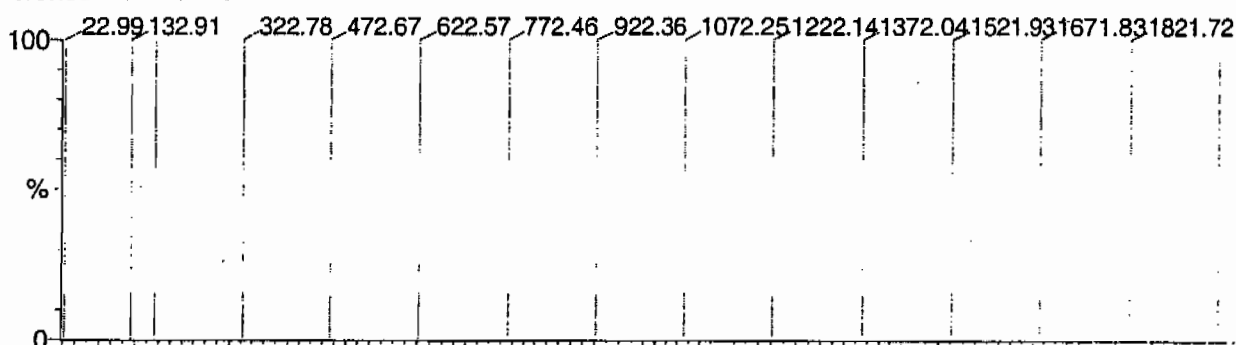
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

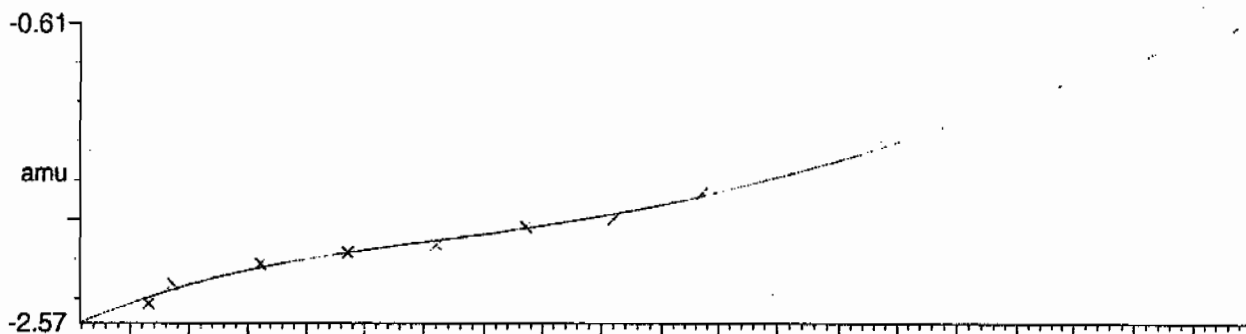
14 matches of 15 tested references



Reference file: Naics2

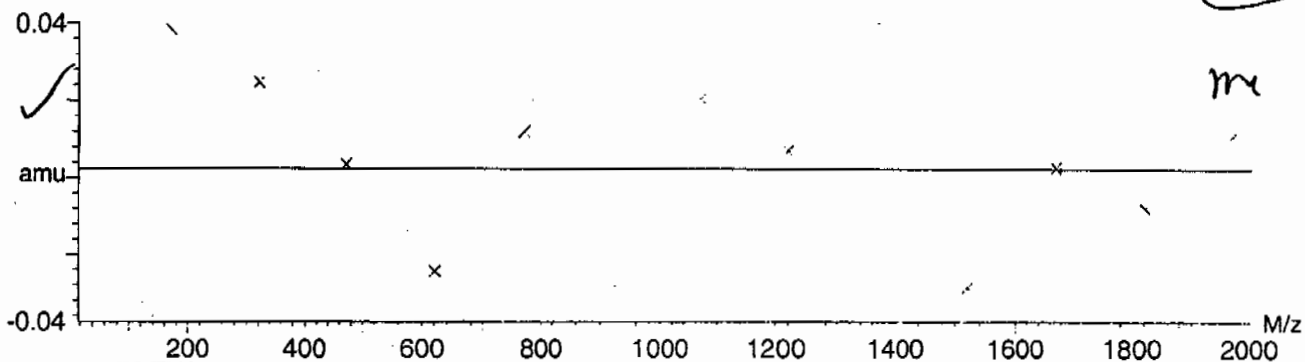


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



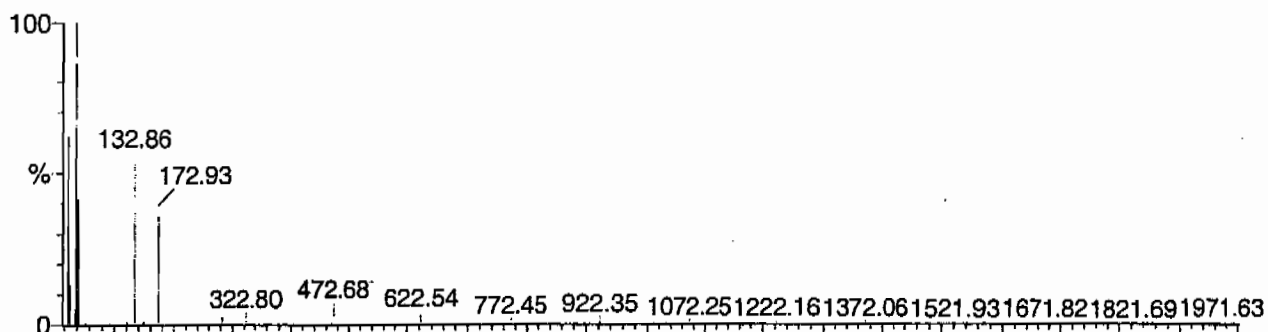
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

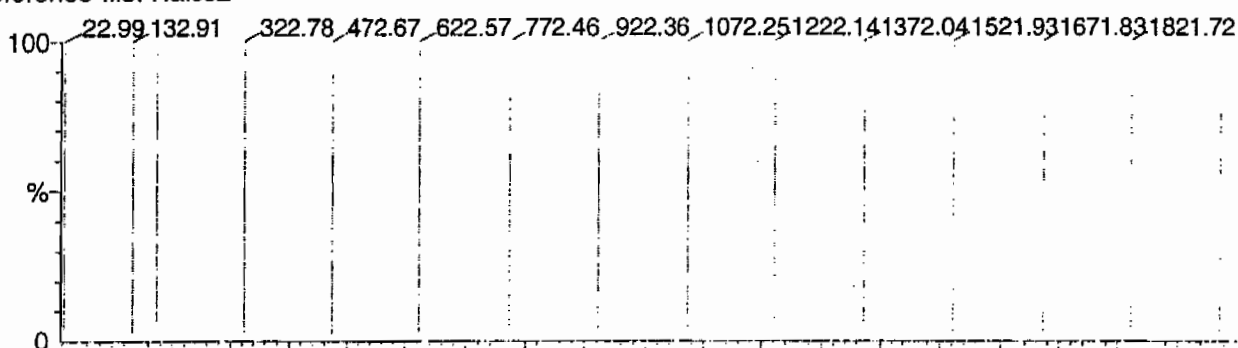
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

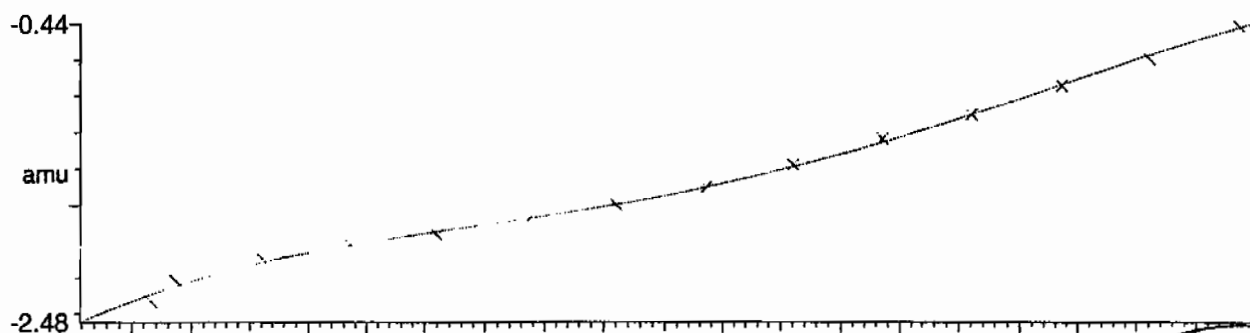
14 matches of 15 tested references



Reference file: Naics2

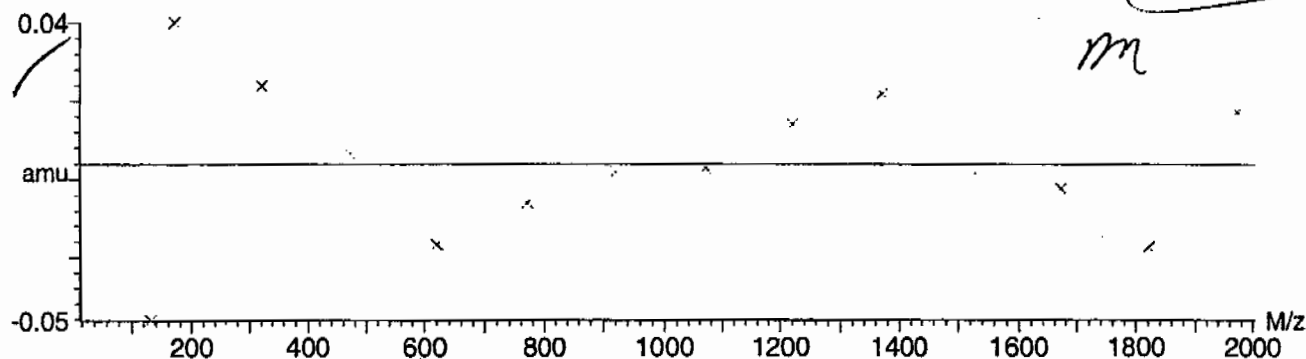


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-6.785350e-9 \pm 0.023134$

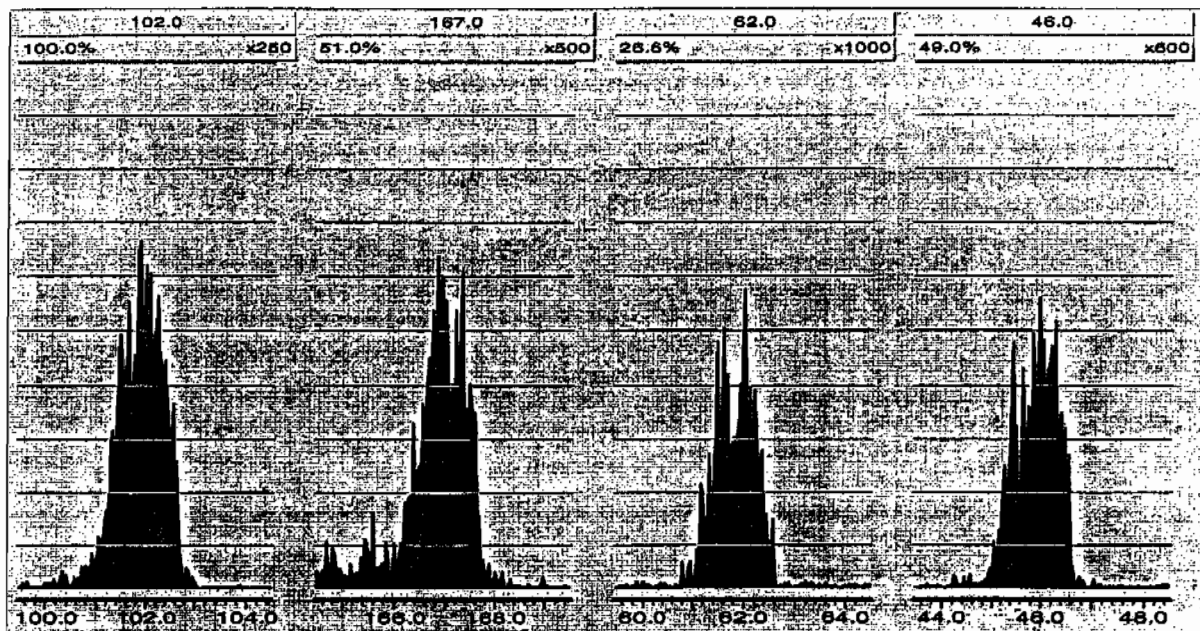


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PROVACQ\UDB\explosives04.IPR

Printed : Sun Jan 17 12:12:23 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

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) #
			3335.503	12.149	18790.1	17.573
Upper Limit			4336.1539	12.649	24427.13	18.073
Lower Limit			2334.8521	11.649	13153.07	17.073
MB for batch 938972	18-jan-10 04:30	EXP0117022a	4241.9	12.169	19153.8	17.575
LCS for batch 938972	18-jan-10 04:59	EXP0117023a	3619.56	12.137	21100.7	17.572
LCSD for batch 938972	18-jan-10 05:29	EXP0117024a	3391.16	12.171	19375.2	17.577
RE12-10-7867	18-jan-10 05:58	EXP0117025a	3216.37	12.134	18687.6	17.566
RE12-10-7868	18-jan-10 06:28	EXP0117026a	3154.72	12.136	18358.5	17.576

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: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117025a

Date Analyzed: 18-JAN-10 05:58

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	0.4	Uh
121-14-2	2,4-Dinitrotoluene	0.4	Uh
121-82-4	RDX	0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene	0.4	Uh
2691-41-0	HMX	0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	0.6	Uh
479-45-8	Tetryl	0.4	Uh
606-20-2	2,6-Dinitrotoluene	0.4	Uh
78-11-5	PETN	2.92	Uh
88-72-2	o-Nitrotoluene	0.4	Uh
98-95-3	Nitrobenzene	0.6	Uh
99-08-1	m-Nitrotoluene	0.4	Uh
99-35-4	1,3,5-Trinitrobenzene	0.4	Uh
99-65-0	m-Dinitrobenzene	0.6	Uh
99-99-0	p-Nitrotoluene	0.4	Uh

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Printed: Mon Jan 18 13:16:14 2010, Page 7 of 35

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0117025a

Date: 18-Jan-2010

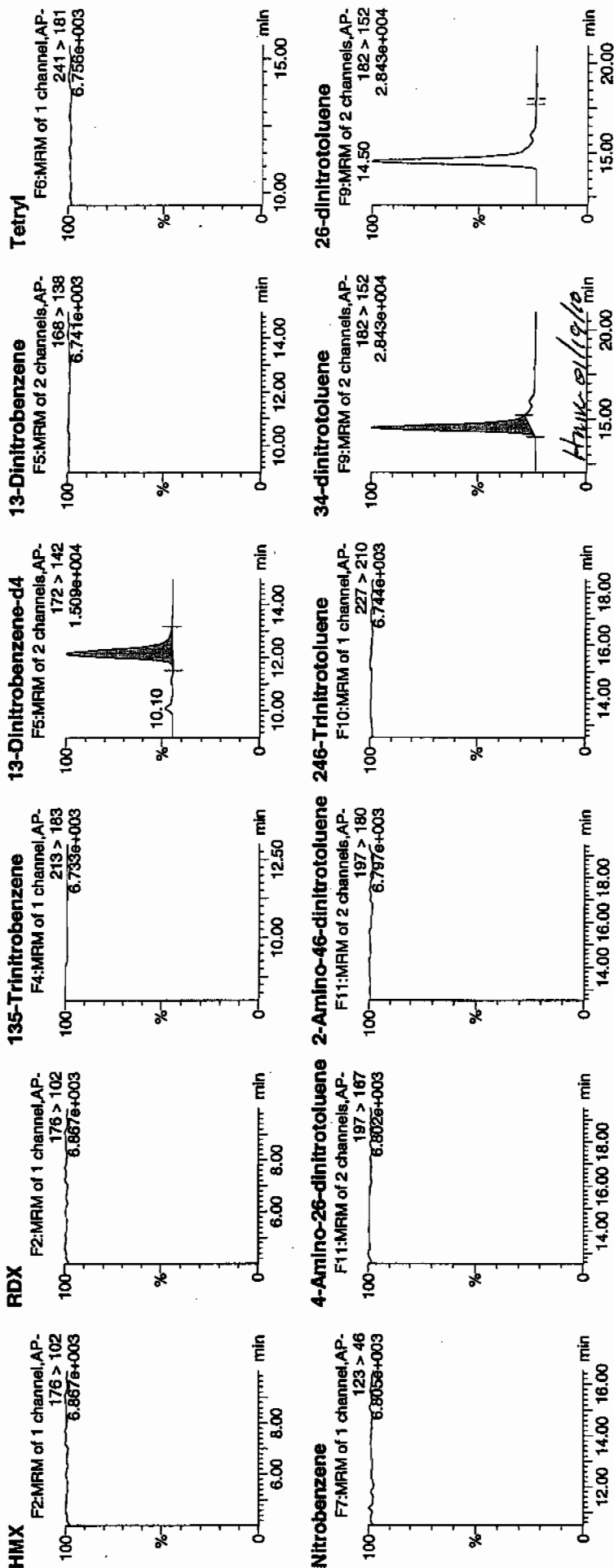
Time: 05:58:44

ID: 243491001

Vial: 1:5,D

not
1/18/10

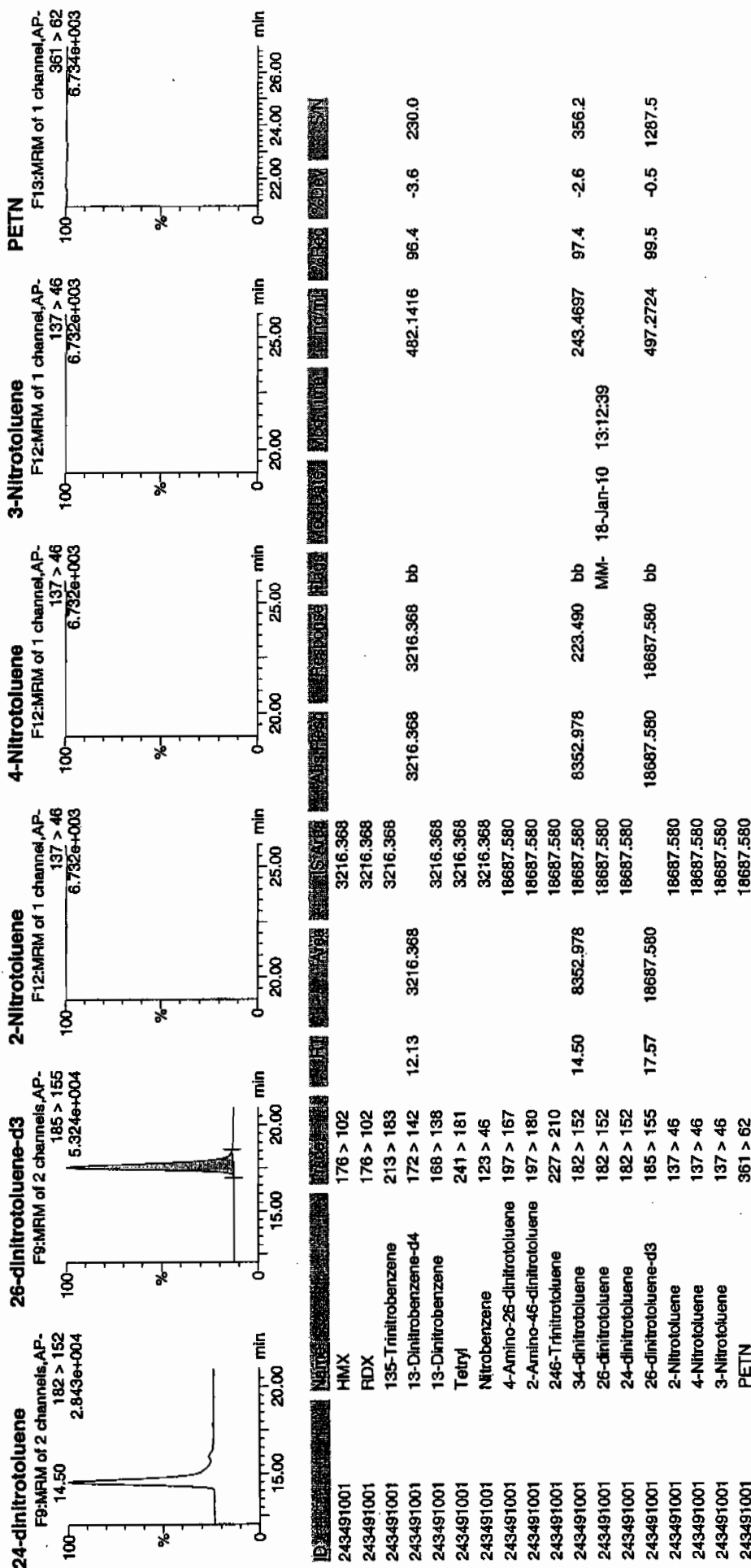
LAU 938173 | 80170 | 21



Printed: Mon Jan 18 13:16:14 2010, Page 8 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7867

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491001

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080045.wiff

Date Analyzed: 09-JAN-10 02:05

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate	1.0	Uh

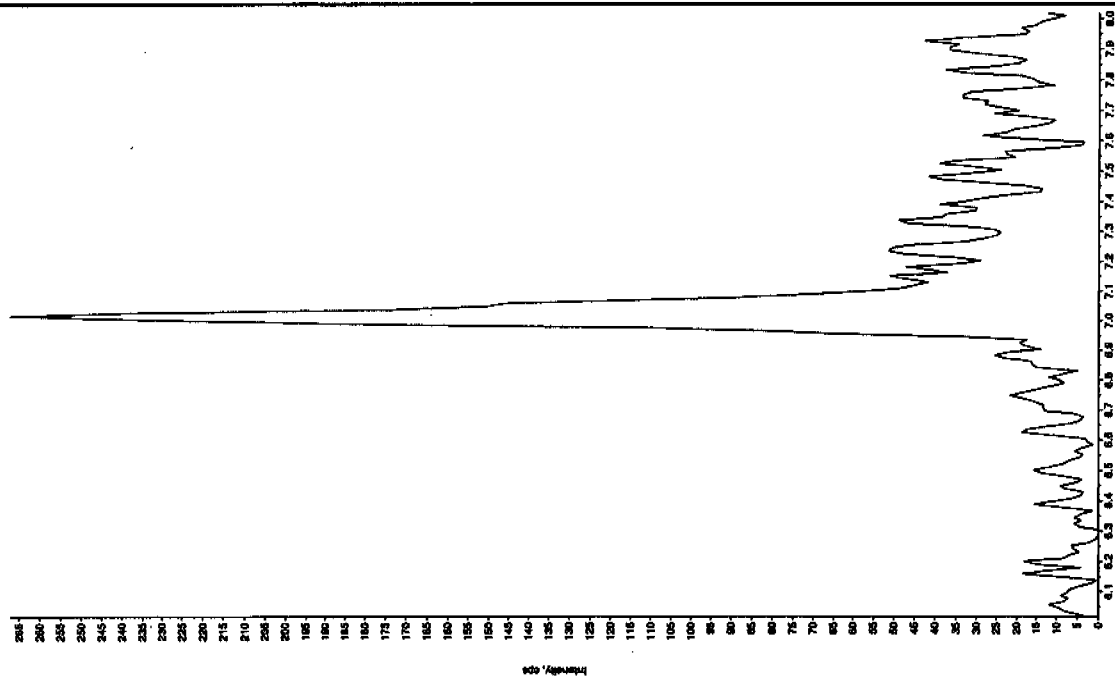
*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor

01/11/10
2008

Sample Name: 243491001 Sample ID: 3336732121 File: EX501080045.wif
Peak Name: TATB Mass(es): 267.2204.9 amu
Comment: LCM83212P Annotation: 1

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:05:28 AM
Modified: NO



Sample Name: 243491001 Sample ID: 3336732121 File: EX501080045.wif
Peak Name: TATB Mass(es): 267.2204.9 amu
Comment: LCM83212P Annotation: 1

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:05:28 AM
Modified: NO

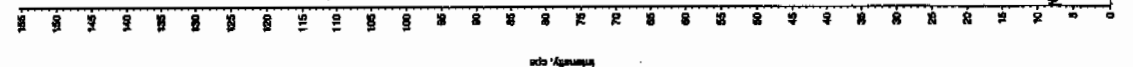


4/11/10

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

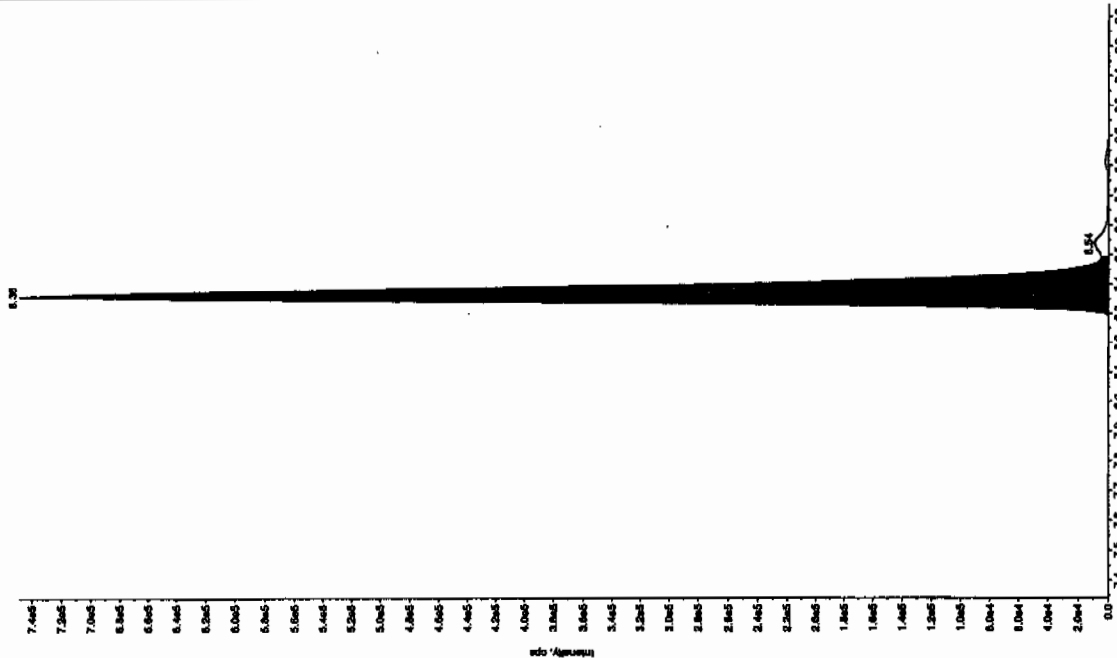
Sample Name: "243491001" Sample ID: "938973212" File: "EXS01080045.wif"
 Peak Name: "28-Diethyl-4-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCX83212" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 0.00
 Acq. Date: 1/9/2010
 Acq. Time: 2:05:28 AM
 Modified: No



Sample Name: "243491001" Sample ID: "938973212" File: "EXS01080045.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.17151.9 amu"
 Comment: "LCX83212" Annotation: ""

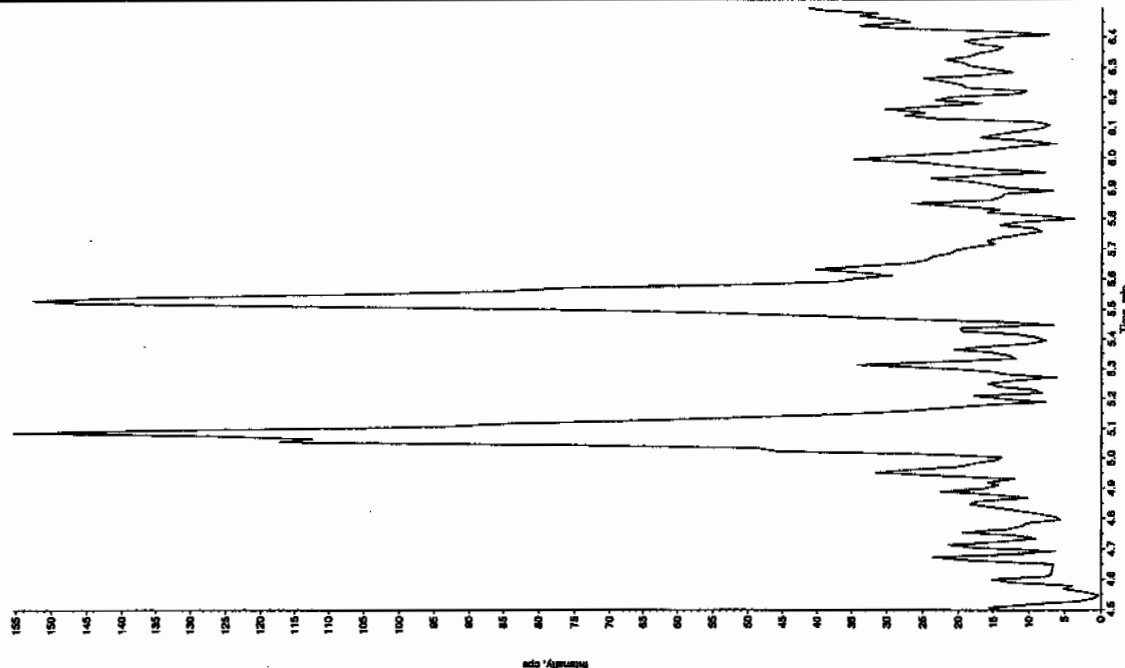
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1/9/2010
 Acq. Date: 1/9/2010
 Acq. Time: 2:05:28 AM
 Modified: No
 roc. Algorithm: Intelliquan - IQA
 in. Peak Height: 1480.00 cps
 in. Peak Width: 0.00 sec
 smoothing Width: 3 points
 T Window: 15.0 sec
 expected RT: 8.34 min
 as Relative RT: No
 nt. Type: Valley
 station Time: 8.36 min
 rea: 2.77e+006 counts
 eight: 749301.514 cps
 cart Time: 8.27 min
 nd Time: 8.50 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

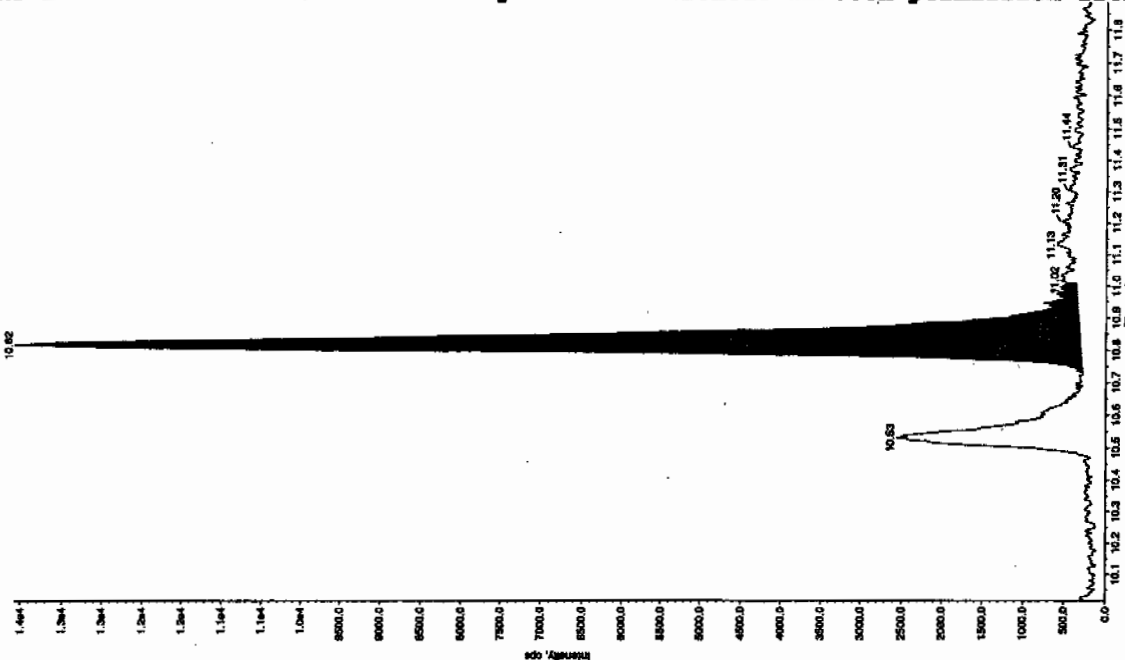
Sample Name: 243491001 Sample ID: 93697321.ERF File: EXS01080045.wif
Peak Name: 24-Diamino-6-microdane Mass(es): 166.046.0 amu
Comment: LCMS0212P Annotation:

Sample Index: 1
Sample Type: Unknown
Concentration: 0.09 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:05:28 AM
Modified: No



Sample Name: 243491001 Sample ID: 93697321.ERF File: EXS01080045.wif
Peak Name: 24-Diamino-6-microdane Mass(es): 355.151.0 amu
Comment: LCMS0212P Annotation:

Sample Index: 1
Sample Type: Unknown
Concentration: 0.356 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:05:28 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1.00e4 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: 5.20e004 counts
Height: 13272.892 cps
Start Time: 10.7 min
End Time: 11.0 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117026a

Date Analyzed: 18-JAN-10 06:28

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	0.4	Uh
121-14-2	2,4-Dinitrotoluene	0.4	Uh
121-82-4	RDX	0.4	Uh
19406-51-0	4-Amino-2,6-dinitrotoluene	0.4	Uh
2691-41-0	HMX	0.6	Uh
35572-78-2	2-Amino-4,6-dinitrotoluene	0.6	Uh
479-45-8	Tetryl	0.4	Uh
606-20-2	2,6-Dinitrotoluene	0.4	Uh
78-11-5	PETN	2.92	Uh
88-72-2	o-Nitrotoluene	0.4	Uh
98-95-3	Nitrobenzene	0.6	Uh
99-08-1	m-Nitrotoluene	0.4	Uh
99-35-4	1,3,5-Trinitrobenzene	0.4	Uh
99-65-0	m-Dinitrobenzene	0.6	Uh
99-99-0	p-Nitrotoluene	0.4	Uh

*Concentration =

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

Printed: Mon Jan 18 13:16:14 2010, Page 9 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0117026a

Date: 18-Jan-2010

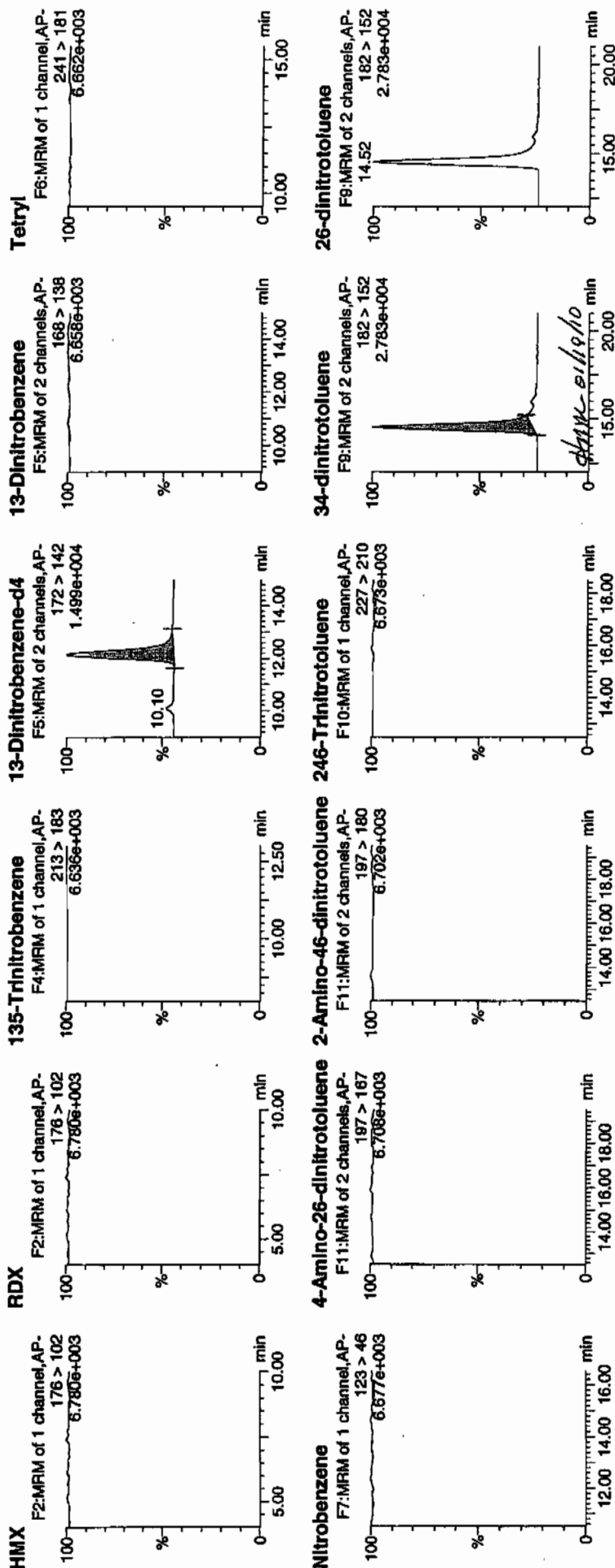
Time: 06:28:13

ID: 243491002

Vial: 1:5,E

μg
1/13/10

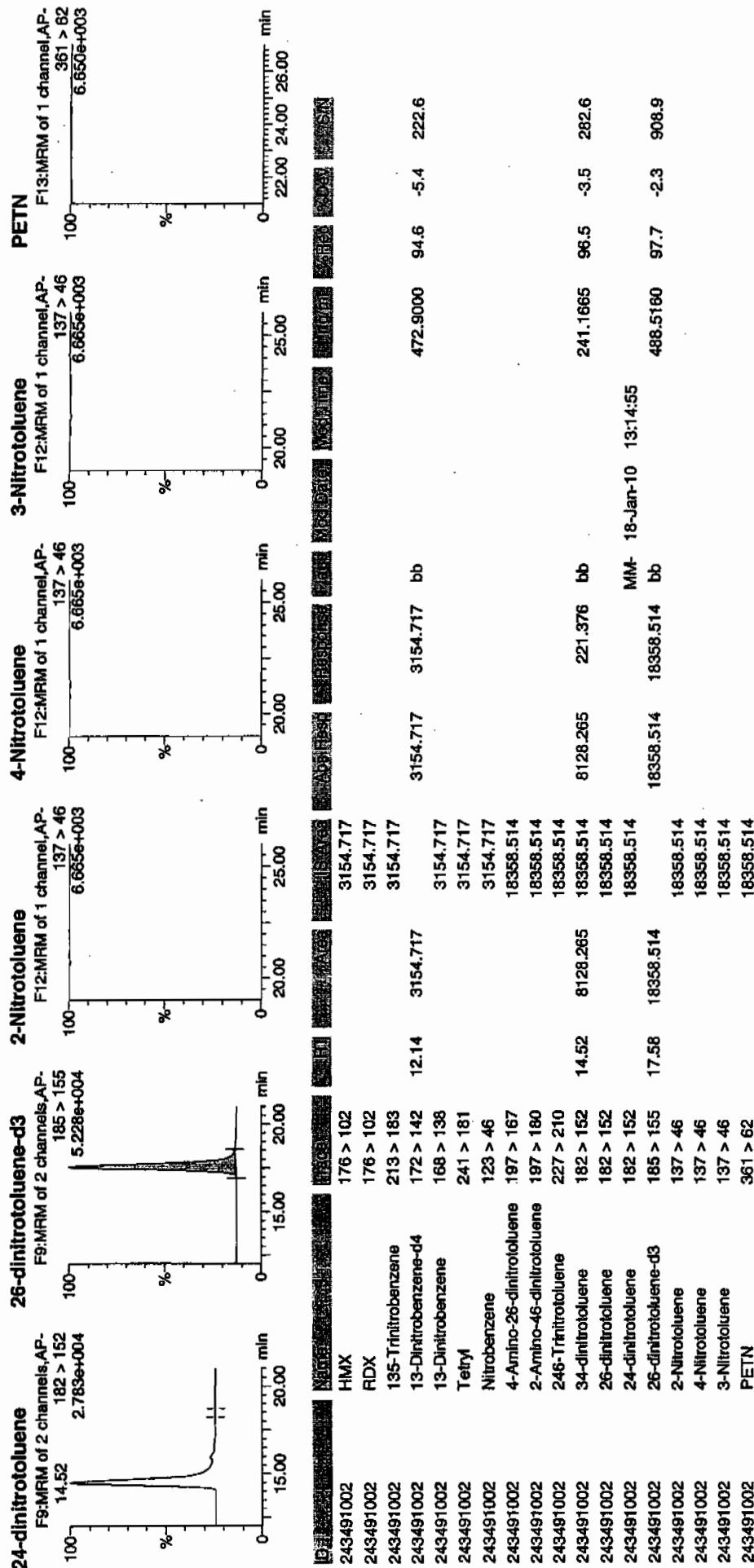
WAVE 938973 / Swire / 21



Printed: Mon Jan 18 13:16:14 2010, Page 10 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE12-10-7868

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 243491002

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080046.wiff

Date Analyzed: 09-JAN-10 02:21

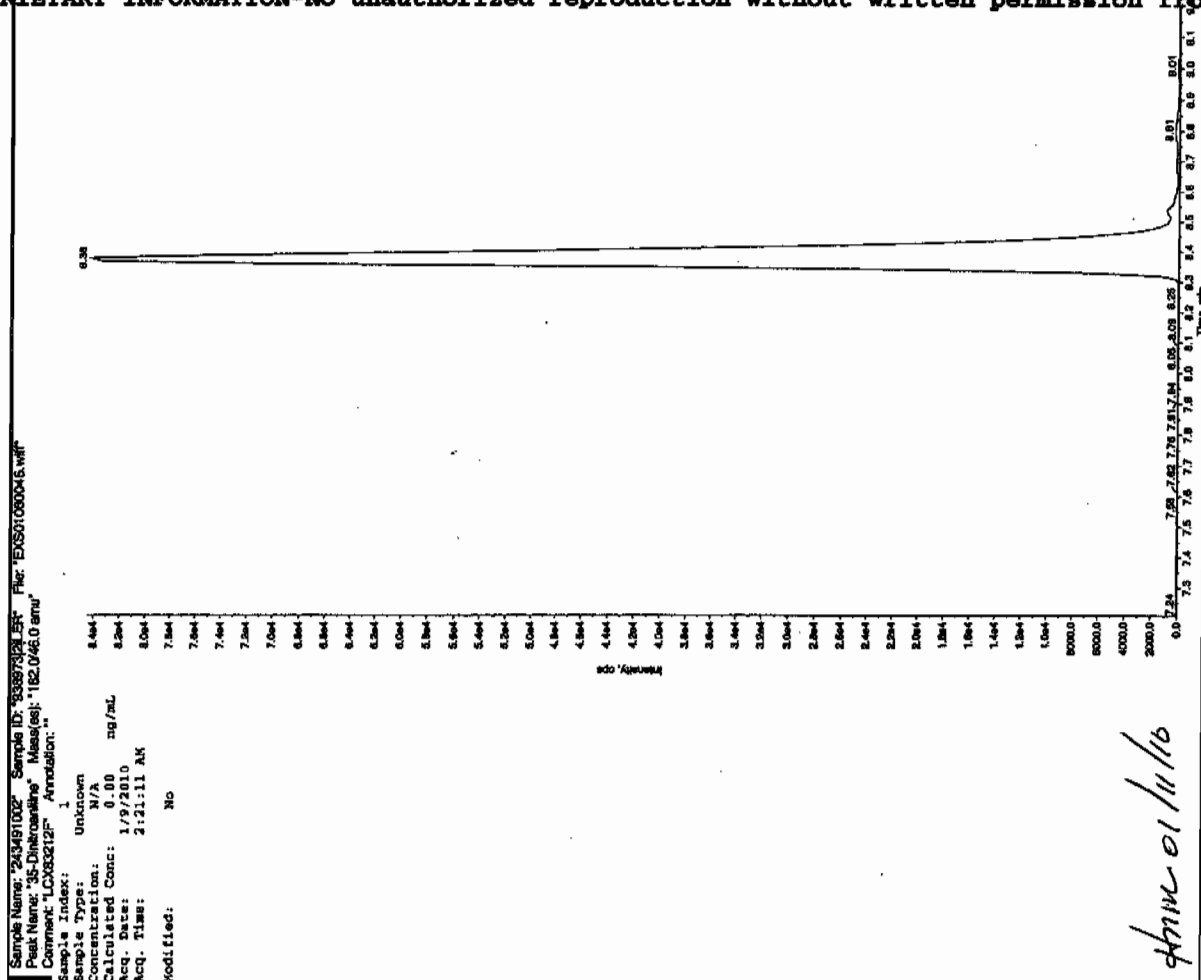
Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	Uh
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	Uh
618-87-1	3,5-Dinitroaniline	1.0	Uh
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	Uh
78-30-8	tris(o-cresyl) phosphate	1.0	Uh

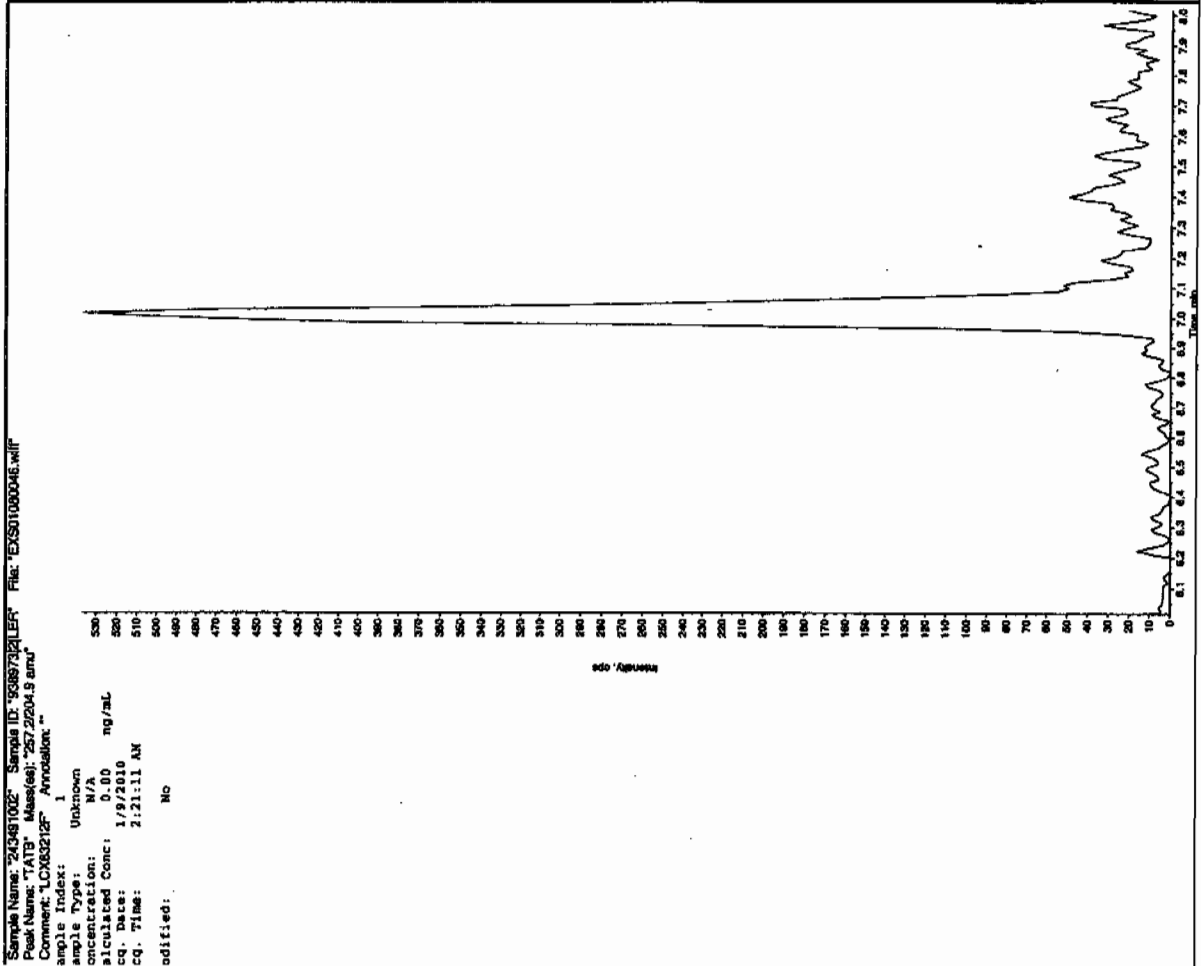
*Concentration =

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

01/11/10
280



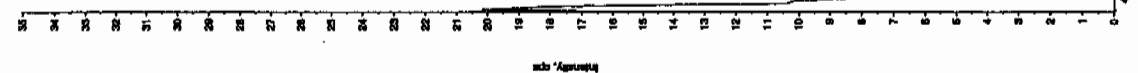
280



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

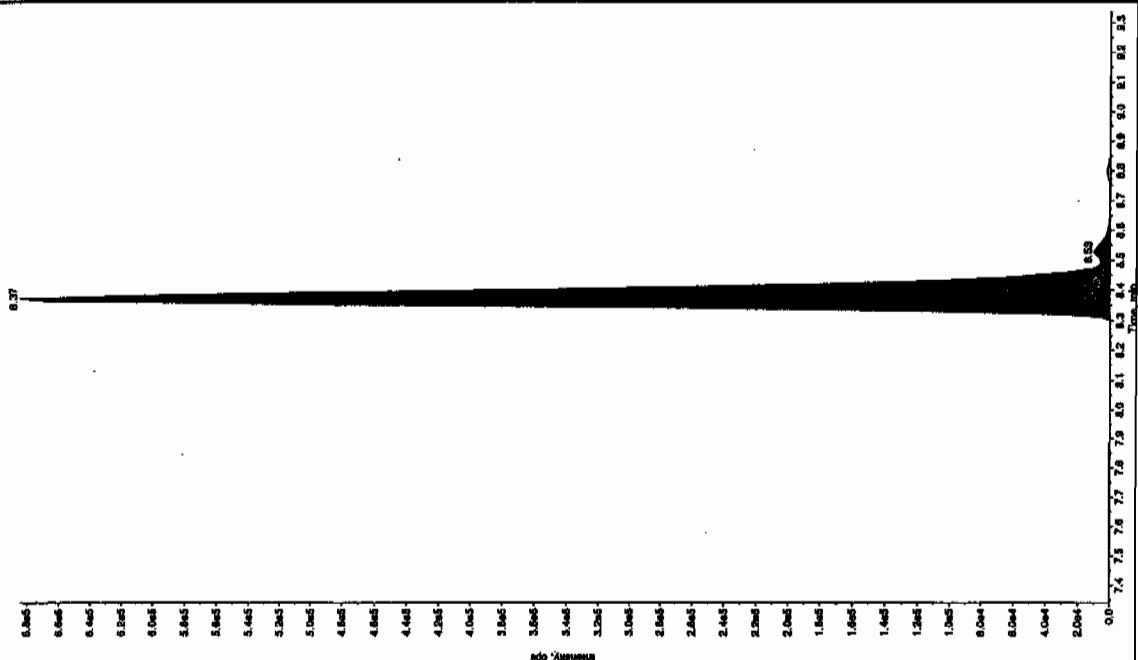
Sample Name: "243491002" Sample ID: "93897322.LR" File: "EXS01080046.wif"
 Peak Name: "25-Dimino-4-nitrochlene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212F" Annotation: "-"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:21:11 AM
 Modified: No



Sample Name: "243491002" Sample ID: "93897322.LR" File: "EXS01080046.wif"
 Peak Name: "34-Dinitrochlene" Mass(es): "162.1151.9 amu"
 Comment: "LCX83212F" Annotation: "-"

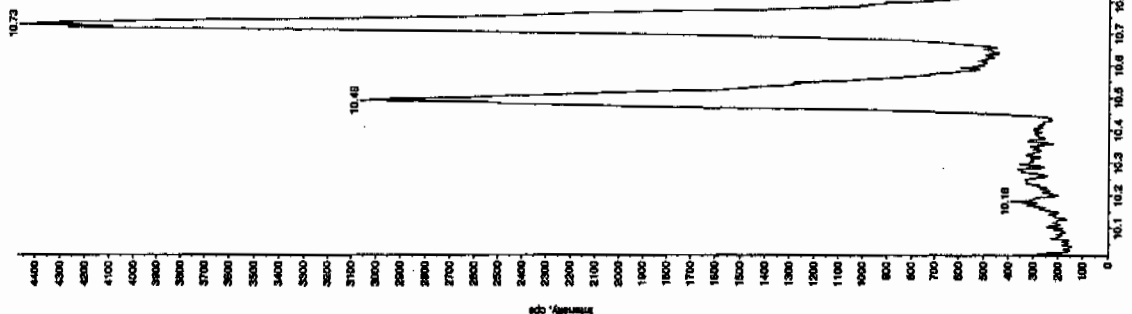
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 206. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:21:11 AM
 Modified: No
 Proc. Algorithm: IntegriQuas - TOA
 In. Peak Width: 146.00 cps
 In. Peak Width: 3 0.00 sec
 In. Peak Width: 15.0 sec
 Expected RT: 8.34 min
 RT Relative RT: No
 nt. Type: Valley
 Station Time: 8.37 min
 Res: 2.74e+006
 Height: 684152.527 cps
 Cart Time: 9.28 min
 Mod Time: 8.71 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

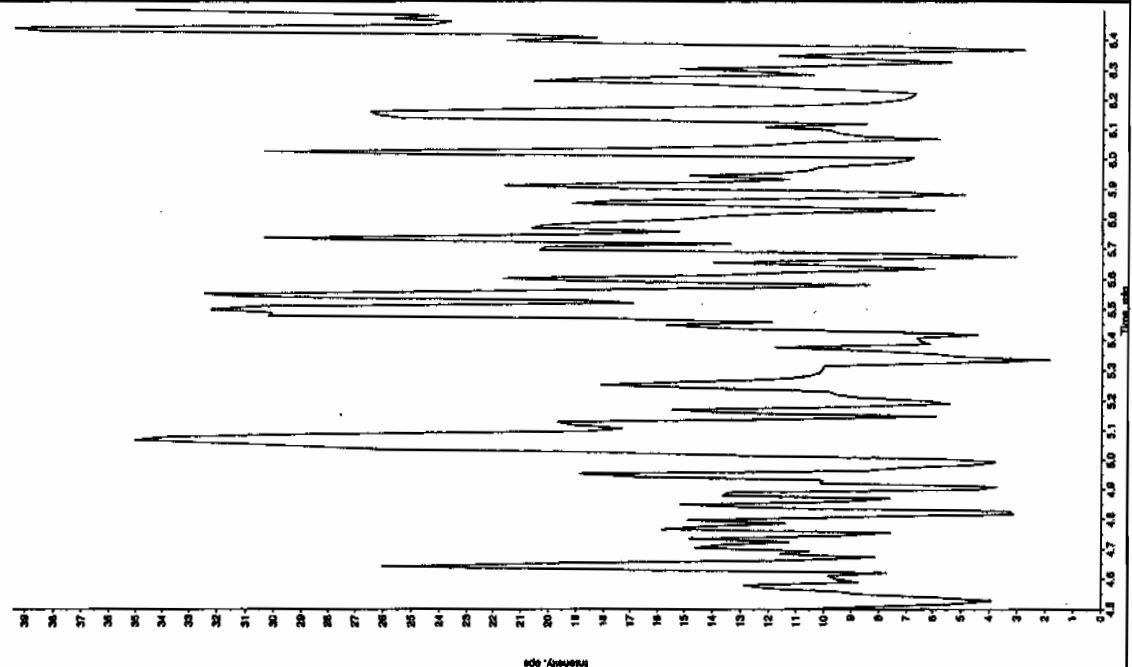
Sample Name: "243491002" Sample ID: "8387321ER" File: "EXS01080046.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "389.1/91.0 amu"
 Comment: "LCX83212P" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:21:11 AM
 Modified: No



Sample Name: "243491002" Sample ID: "8387321ER" File: "EXS01080046.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "165.0/46.0 amu"
 Comment: "LCX83212P" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:21:11 AM
 Modified: No



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

STANDARDS DATA

SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MXN	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC GEL Job No: 10-1036-1 Run Date: 08-JAN-10 17-JAN-10
 Lab Code: GEL
 LCMSMS Instrument ID: LCMSMS Method: 8321A Modified HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Data File:	EXP0117003a	EXP0117004a	EXP0117005a	EXP0117006a	EXP0117007a	EXP0117008a			
1,3,5-Trinitrobenzene	3.59	3.377	3.185	3.44	3.411	3.213	3.369	4.478	
1,3-Dinitrobenzene-44	7.19	7.038	6.404	6.184	6.179	7.031	6.671	6.982	
2,4,6-Trinitrotoluene	.34	.322	.346	.367	.346	.385	0.351	6.302	
2,4-Dinitrotoluene	.226	.248	.264	.245	.271	.273	0.255	7.149	
2,6-Dinitrotoluene	1.096	1.174	1.081	1.099	1.124	1.131	1.118	2.972	
2,6-Dinitrotoluene-43	41.529	37.263	37.777	35.052	35.875	37.984	37.580	5.973	
2-Amino-4,6-dinitrotoluene	.405	.362	.395	.409	.444	.496	0.419	11.001	
3,4-Dinitrotoluene	.801	.951	.906	.942	.917	.989	0.918	6.981	
4-Amino-2,6-dinitrotoluene	.283	.282	.267	.291	.294	.328	0.291	7.002	
HMX	3.486	3.609	3.921	4.43	4.417	3.712	3.929	10.398	
Nitrobenzene	.904	.709	.82	.845	.846	.818	0.824	7.799	
PETN	2.132	2.198	1.842	1.892	1.371	.646	1.680	17.275	
RDX	2.377	2.825	2.518	3.826	3.194	2.822	2.927	17.893	
Tetryl	.812	.907	.923	.858	.881	.809	0.865	5.508	
m-Dinitrobenzene	1.443	1.45	1.19	1.218	1.247	1.229	1.296	9.109	
m-Nitrotoluene	.073	.09	.085	.096	.09	.071	0.084	12.144	
o-Nitrotoluene	.172	.151	.183	.155	.162	.12	0.157	13.713	
p-Nitrotoluene	.083	.062	.088	.081	.074	.062	0.075	14.406	

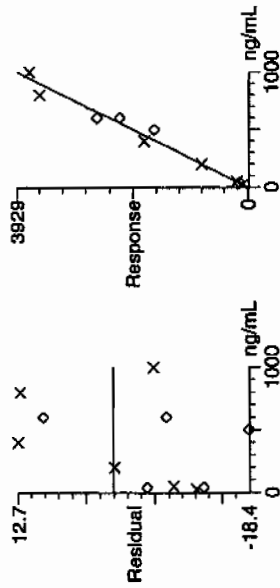
Q column used to flag RSD values outside of Limit (>20%)
 * Values outside of QC Limit

Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

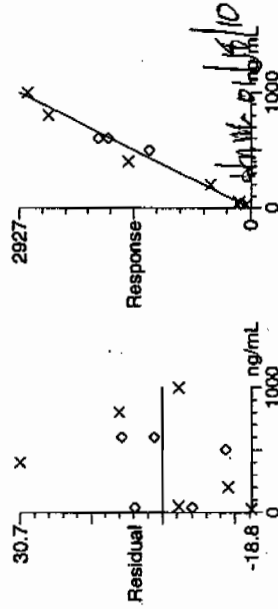
Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\011710expa.mdb, Time: Mon Jan 18 07:21:54 2010
Calibration: Untitled, Time: Mon Jan 18 07:34:17 2010

Compound name: HMX
Response Factor: 3.92896
RRF SD: 0.408534, % Relative SD: 10.398
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: RDX
Response Factor: 2.92686
RRF SD: 0.523695, % Relative SD: 17.8927
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

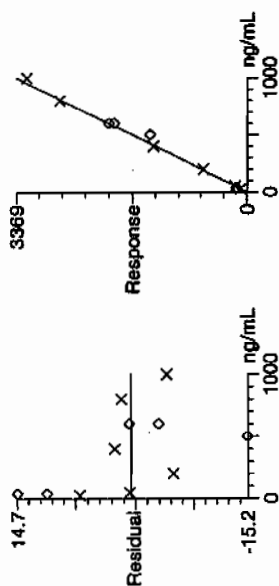


Printed: Mon Jan 18 07:35:26 2010, Page 2 of 9

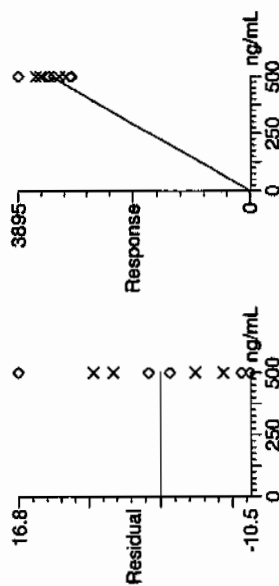
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 135-Trinitrobenzene
Response Factor: 3.3693
RRF SD: 0.150892, % Relative SD: 4.47842
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



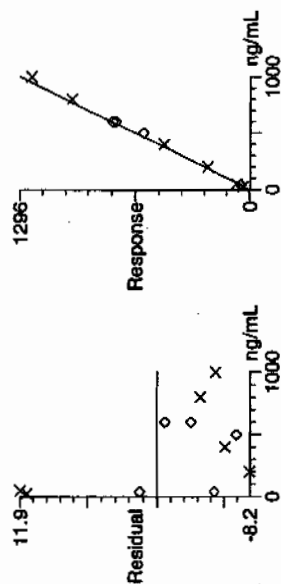
Compound name: 13-Dinitrobenzene-d4
Response Factor: 6.671
RRF SD: 0.46574, % Relative SD: 6.98156
Response type: External Std, Area
Curve type: RF



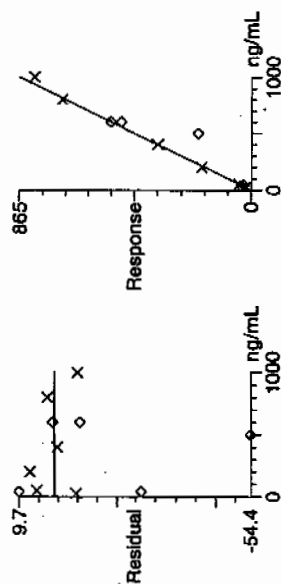
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.29606
RRF SD: 0.118052, % Relative SD: 9.10852
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



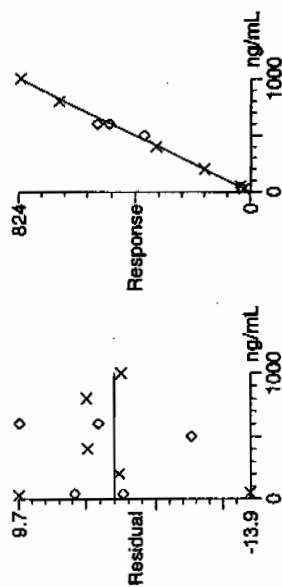
Compound name: Tetral
Response Factor: 0.865057
RRF SD: 0.0476453, % Relative SD: 5.50776
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



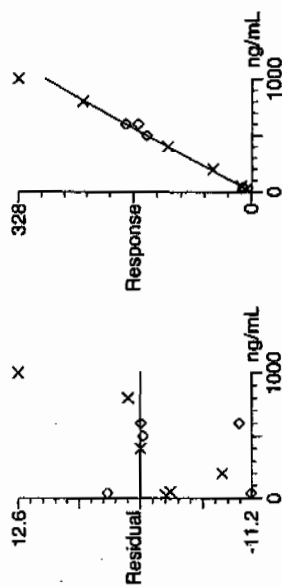
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: Nitrobenzene
Response Factor: 0.823702
RRF SD: 0.0642425, % Relative SD: 7.79923
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



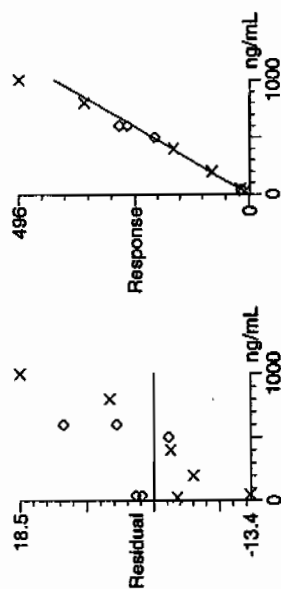
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.290801
RRF SD: 0.0203617, % Relative SD: 7.00194
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



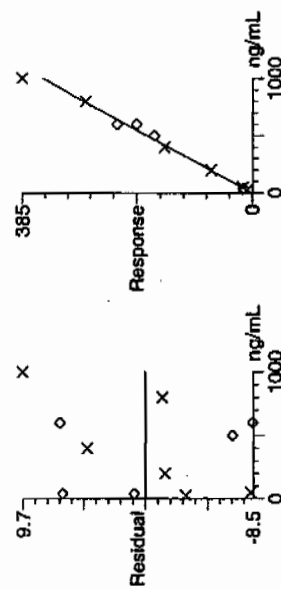
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 2-Amino-46-dinitrotoluene
Response Factor: 0.418363
RRF SD: 0.0460233, % Relative SD: 11.0008
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 246-Trinitrotoluene
Response Factor: 0.351152
RRF SD: 0.022129, % Relative SD: 6.30185
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

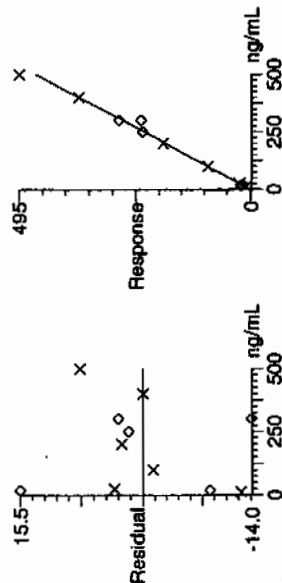


Quantify Calibration Report

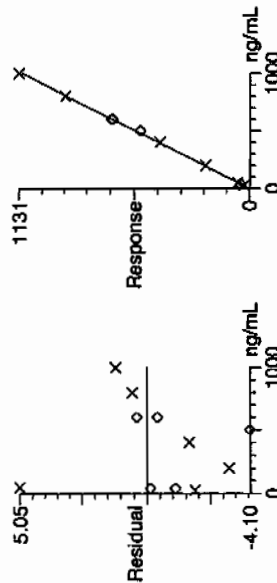
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 34-dinitrotoluene
 Response Factor: 0.917938
 RRF SD: 0.0640846, % Relative SD: 6.98137
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



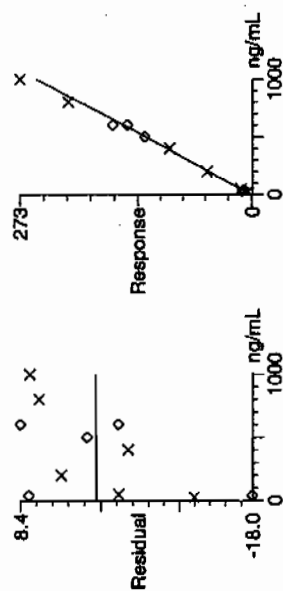
Compound name: 26-dinitrotoluene
 Response Factor: 1.11735
 RRF SD: 0.0332032, % Relative SD: 2.9716
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



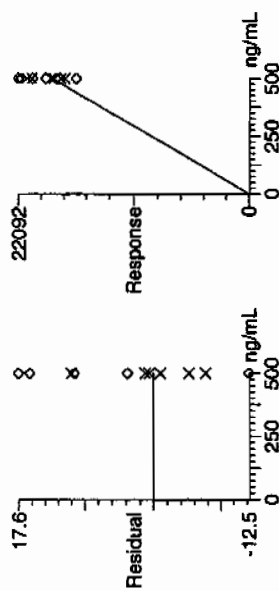
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp\PROV011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.254411
RRF SD: 0.0181868, % Relative SD: 7.14859
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



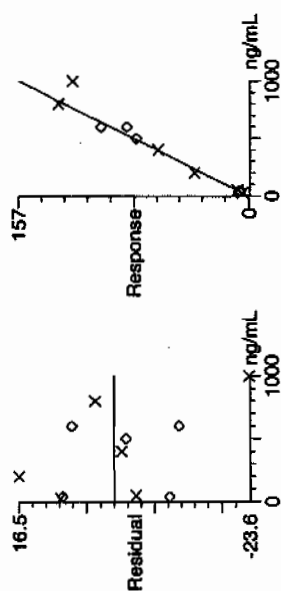
Compound name: 26-dinitrotoluene-d3
Response Factor: 37.5802
RRF SD: 2.24479, % Relative SD: 5.97333
Response type: External Std, Area
Curve type: RF



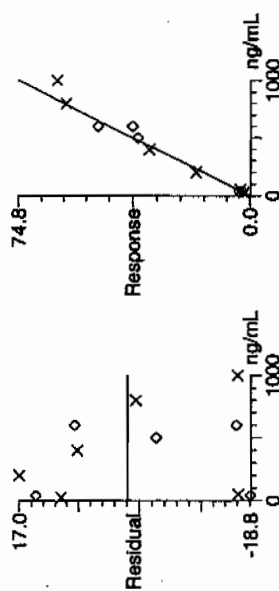
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.157113
RRF SD: 0.0215446, % Relative SD: 13.7128
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



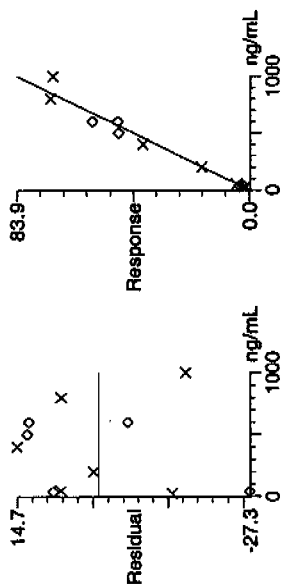
Compound name: 4-Nitrotoluene
Response Factor: 0.074833
RRF SD: 0.0107805, % Relative SD: 14.406
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



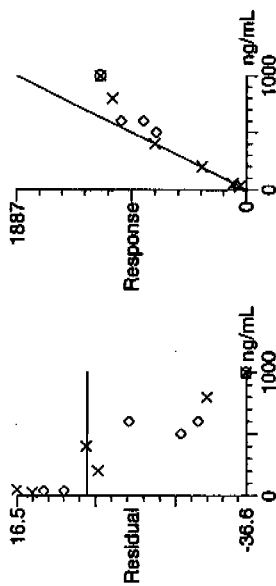
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0839462
RRF SD: 0.0101944, % Relative SD: 12.144
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Response Factor: 1.88678
RRF SD: 0.325937, % Relative SD: 17.2748
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0117010a

Analysis Date: 17-JAN-10 22:36

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	600	602.374	100	
2,6-Dinitrotoluene-d3	500	437.521	88	
2-Amino-4,6-dinitrotoluene	600	631.181	105	
3,4-Dinitrotoluene	300	309.343	103	
4-Amino-2,6-dinitrotoluene	600	599.63	100	
HMX	600	557.174	93	
Nitrobenzene	600	609.285	102	
PETN	600	542.752	90	
RDX	600	609.99	102	
Tetryl	600	556.459	93	
m-Dinitrobenzene	600	582.084	97	
m-Nitrotoluene	600	675.725	113	
o-Nitrotoluene	600	642.996	107	
p-Nitrotoluene	600	649.188	108	
1,3,5-Trinitrobenzene	600	578.769	96	
1,3-Dinitrobenzene-d4	500	447.648	90	
2,4,6-Trinitrotoluene	600	640.786	107	
2,4-Dinitrotoluene	600	650.468	108	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Mon Jan 18 07:35:26 2010, Page 19 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117010a

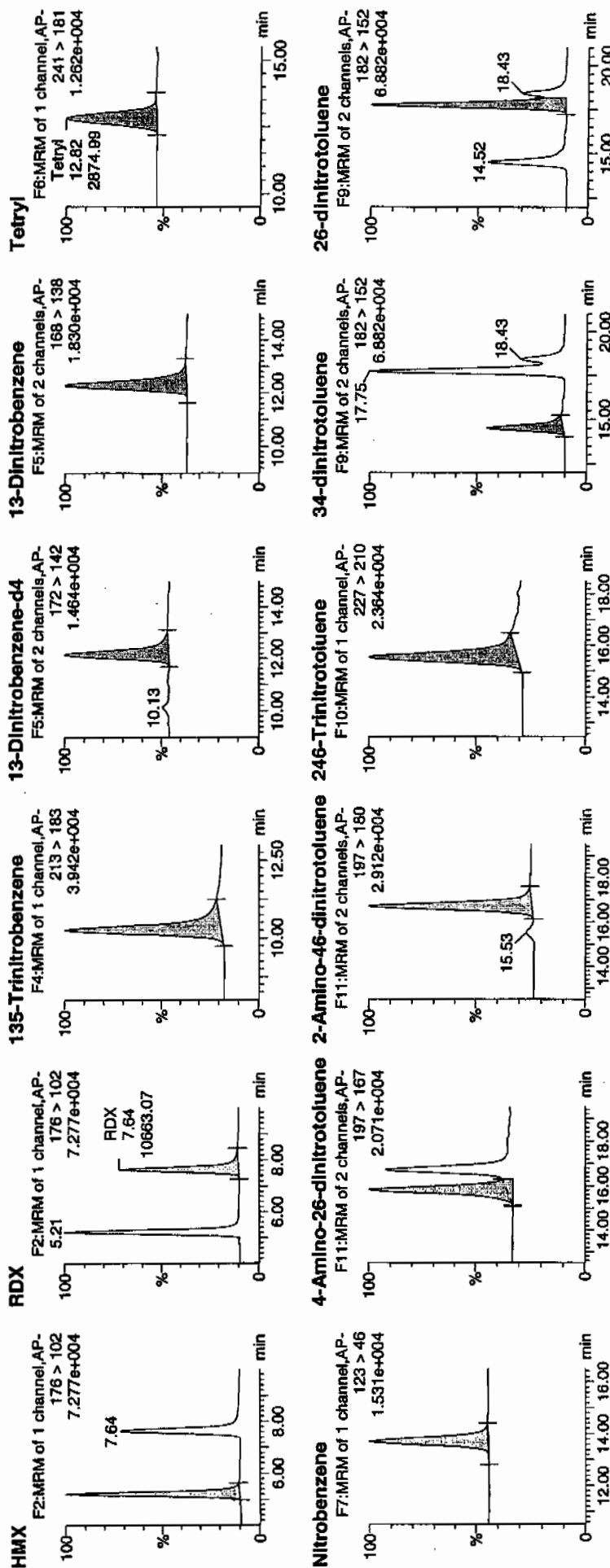
Date: 17-Jan-2010

Time: 22:36:26

ID: WXX100117-07ICV

Vial: 1:1,B

1/19/10

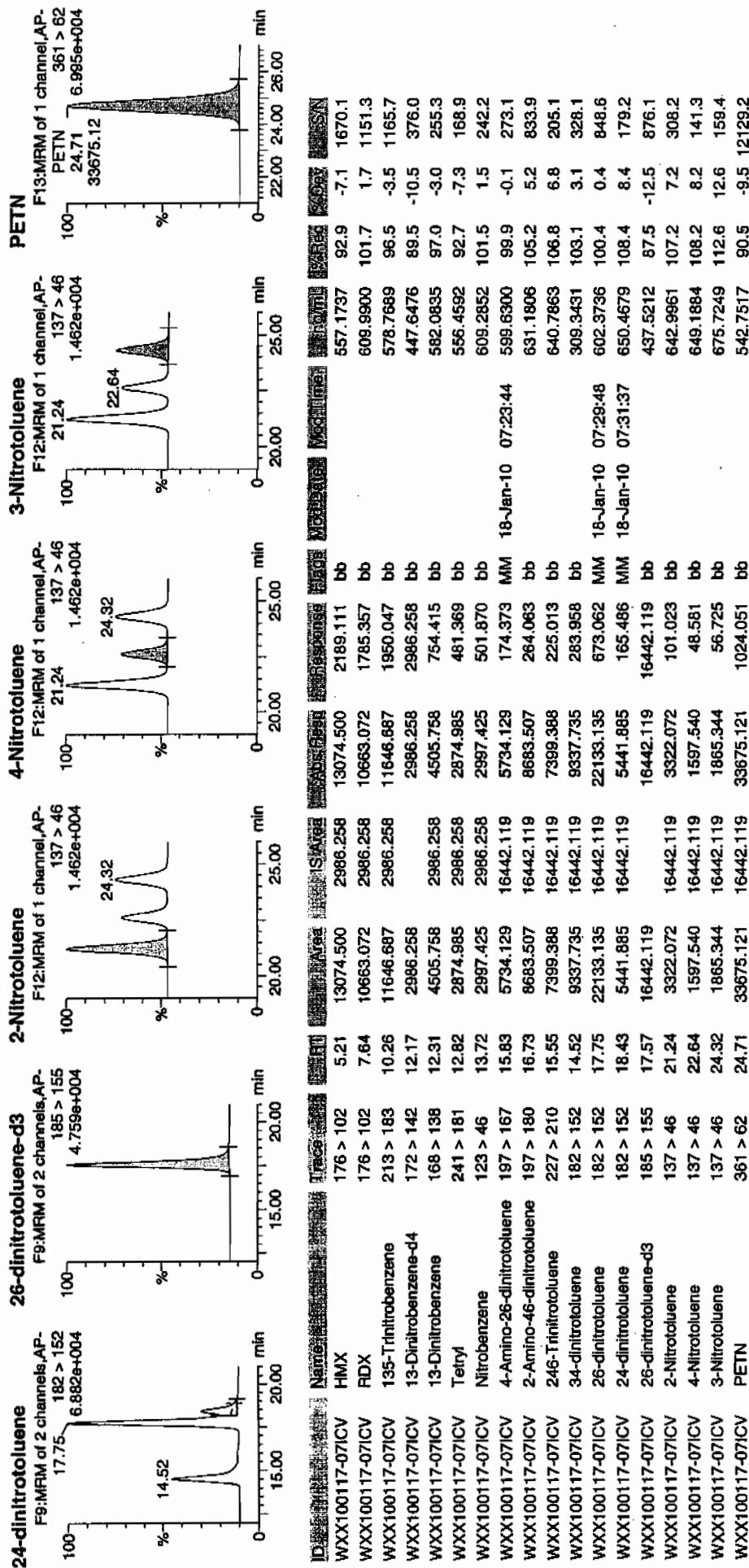


Handwritten signature

Printed: Mon Jan 18 07:35:26 2010, Page 20 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO011710expA.qld, Time: Mon Jan 18 07:34:18 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/17/10
 Time of Injection: 2236
 Standard Number: WXX100117-07ICV
 Data File: EXP0117010a

HMX	92.9
RDX	101.7
135-TNB	96.5
13-DNB	97.0
Tetryl	92.7
Nitrobenzene	101.5
4A-26-DNT	99.9
2A-46-DNT	105.2
246-TNT	106.8
34-DNT(surr)	103.1
26-DNT	100.4
24-DNT	108.4
2-NT	107.2
4-NT	108.2
3-NT	112.6
PETN	90.5

*mt
1/18/10*

Total 1624.6

Average 101.5

411111 01/18/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1036-1

Lab Code: GEL

Run Date: 08-JAN-10.17-JAN-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS01080003.wiff	EXS01080004.wiff	EXS01080005.wiff	EXS01080006.wiff	EXS01080007.wiff	EXS01080008.wiff	EXS01080009.wiff					
Permaname:												
2,4-Diamino-6-nitrotoluene	127000	254000	593000	1240000	1830000	2310000	4690000	18800	2370	-.021	.9997	
2,6-Diamino-4-nitrotoluene	174000	359000	848000	1590000	2320000	3170000	6060000	31800	3170	-.078	.9999	
3,4-Dinitrotoluene	318000	675000	1630000	3020000	4590000	6160000	11000000	-57900	14200	-3.17	.9987	
3,5-Dinitroaniline	521000	1080000	2510000	5050000	6900000	8930000	14900000	42400	10400	-1.48	.9998	
TATB	73300	158000	382000	762000	1130000	1550000	2990000	-5380	1560	-.032	.9999	
tris(o-cresyl) phosphate	1320000	2650000	6200000	11500000	16100000	20800000	30000000	42800	25800	-5.41	.9998	

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

010810ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-5.38e+003			
a1	1.56e+003			
a2	-0.0319			

Correlation coefficient 0.9999
Use Area

Done 11/11/10

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	4.24e+004			
a1	1.04e+004			
a2	-1.48			

Correlation coefficient 0.9998
Use Area

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	-5.79e+004			
a1	1.42e+004			
a2	-3.17			

Correlation coefficient 0.9987
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	3.18e+004			
a1	3.17e+003			
a2	-0.0779			

Correlation coefficient 0.9999
Use Area

Done 11/11/10

010810ICAL

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

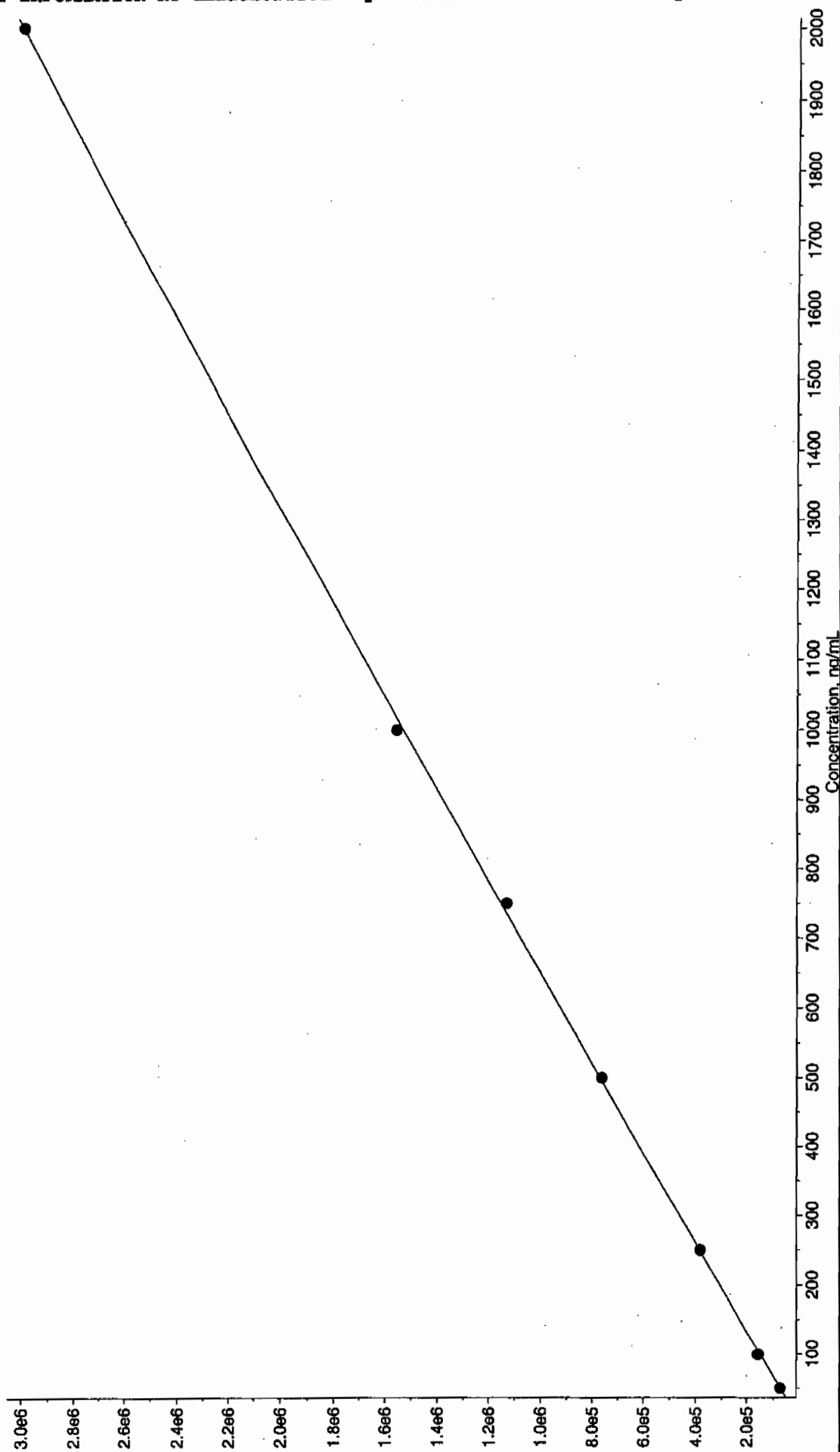
Fit	Quadratic	Weighting	None	Iterate No
a0	1.88e+004			
a1	2.37e+003			
a2	-0.0212			
Correlation coefficient 0.9997				
Use Area				

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	4.28e+004			
a1	2.58e+004			
a2	-5.41			
Correlation coefficient 0.9998				
Use Area				

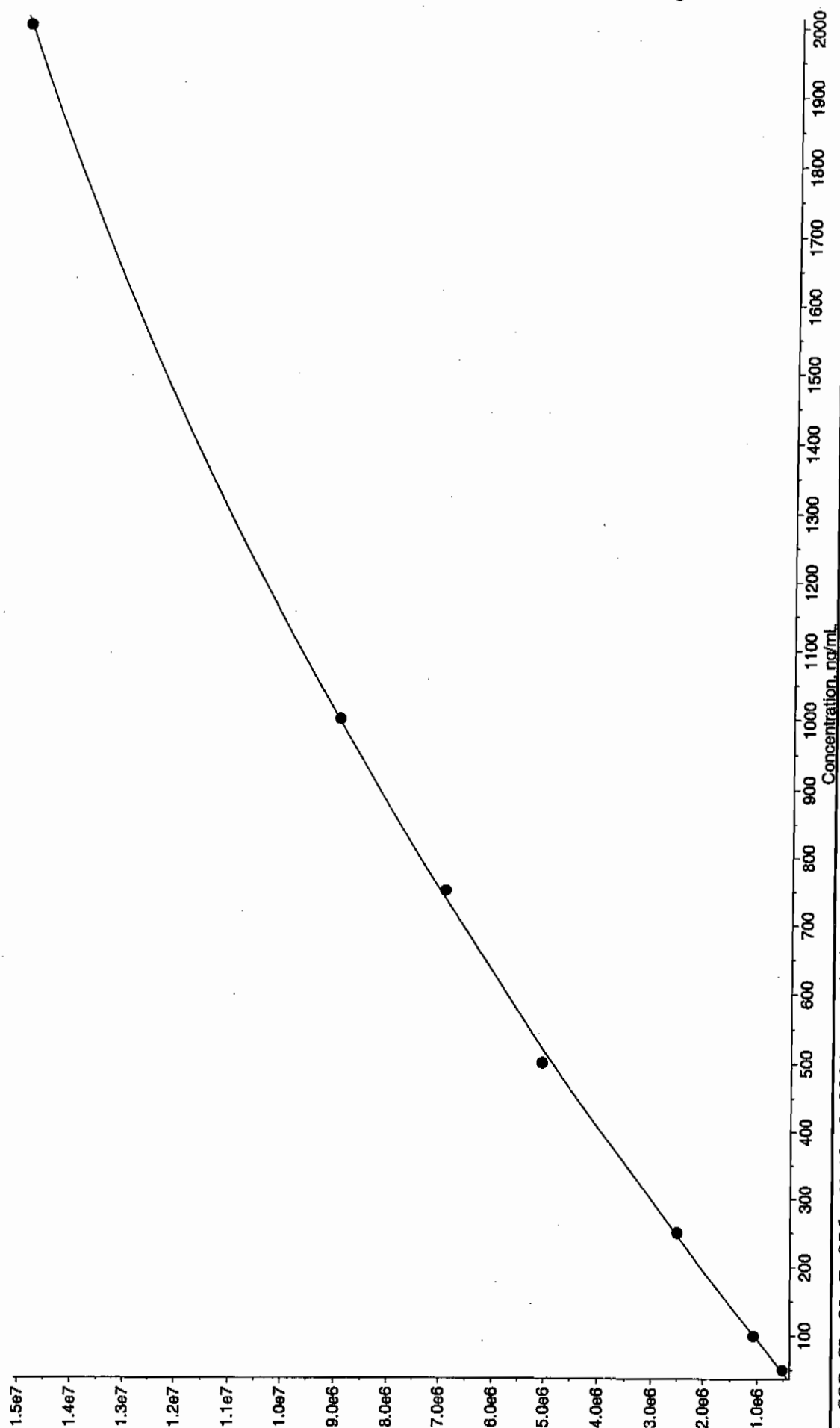
Page 2

010810.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = -0.0319 x^2 + 1.56e+003 x + -5.38e+003$ ($r = 0.9999$)



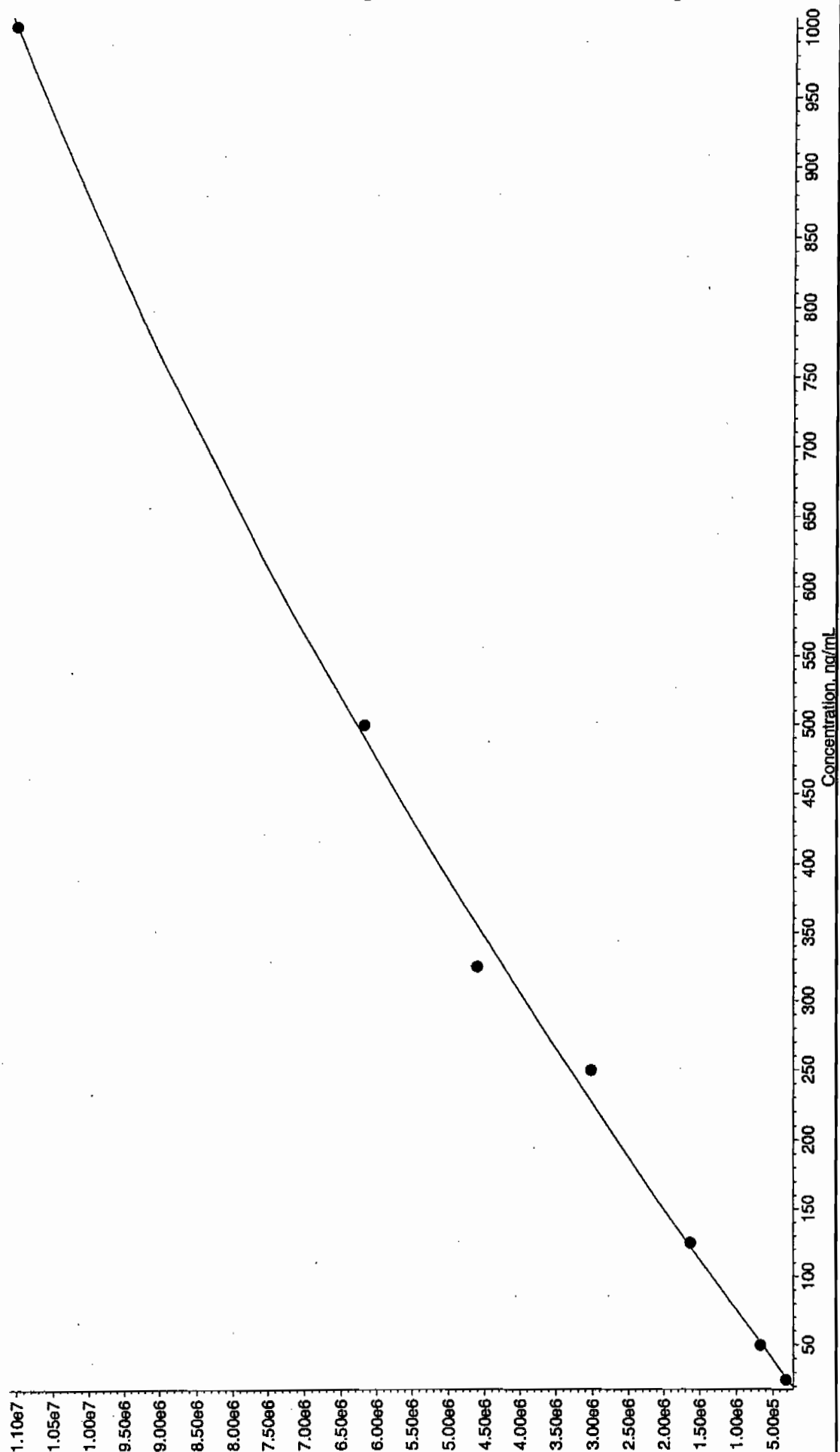
JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

010810.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.48 x^2 + 1.04e+004 x + 4.24e+004$ ($r = 0.9998$)



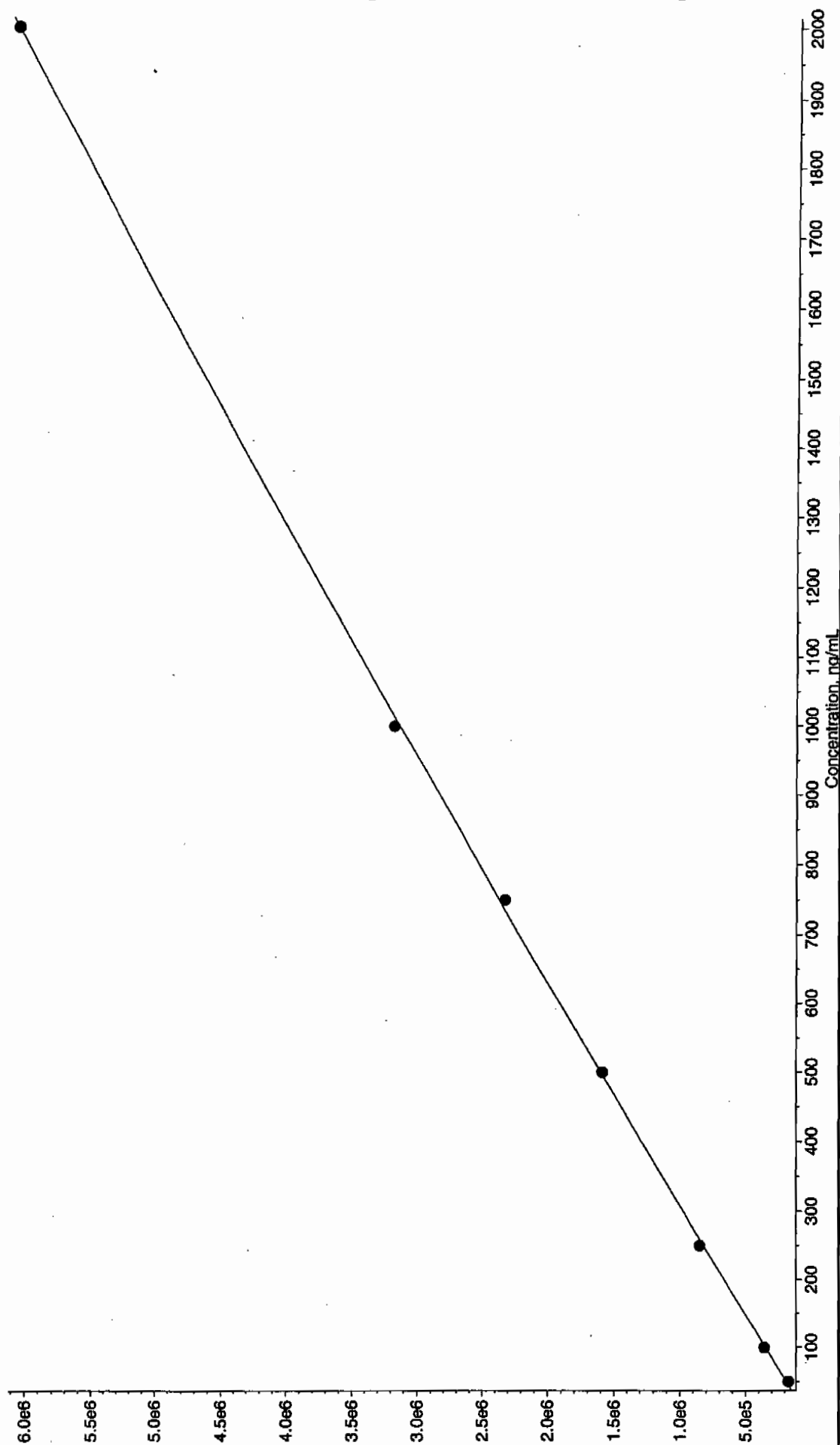
JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

010810.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -3.17 \times 10^{-4} x^2 + 1.42 \times 10^{-4} x + -5.79 \times 10^{-4}$ ($r = 0.9987$)



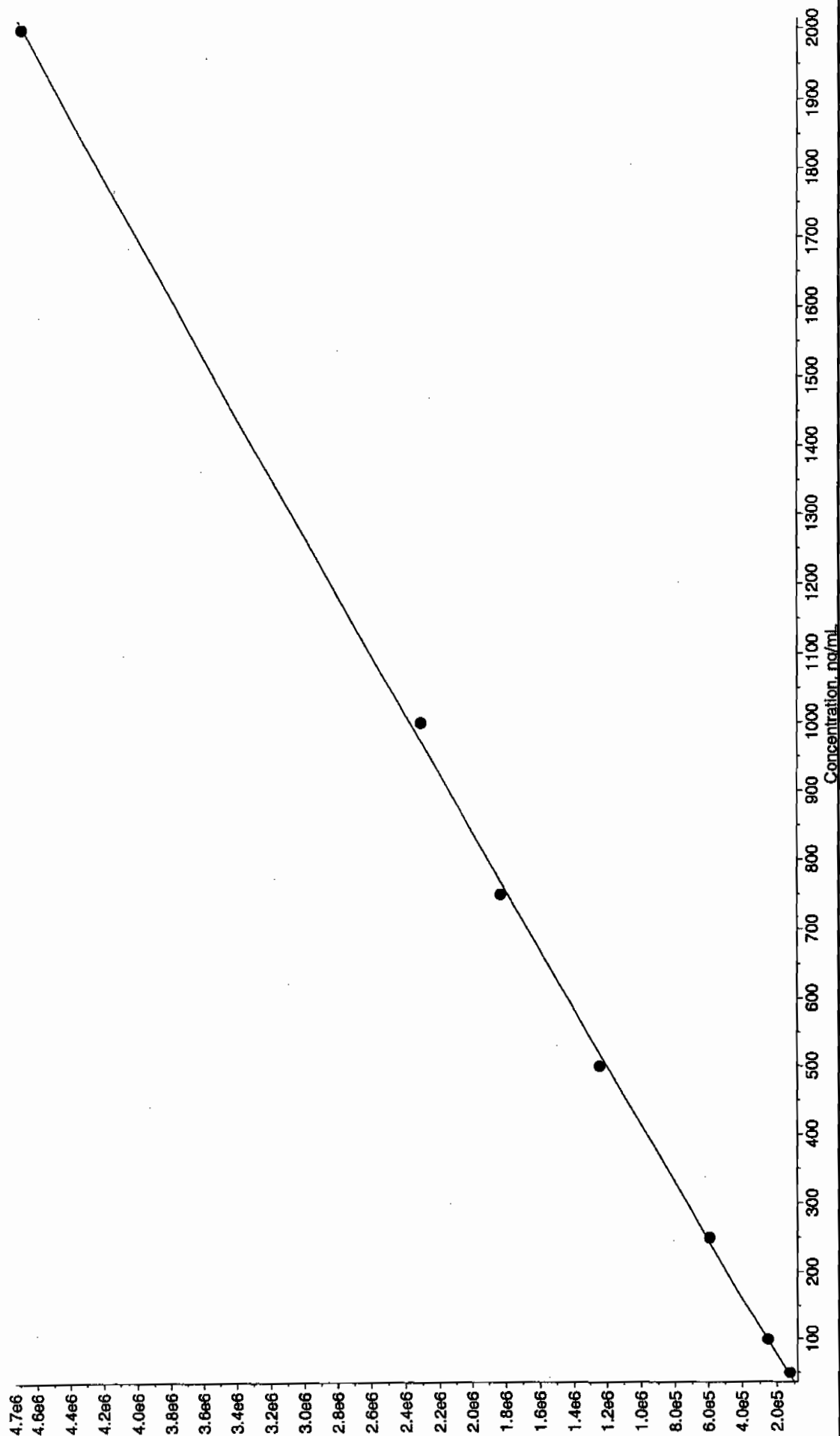
JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

010810.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0779 x^2 + 3.17e+003 x + 3.18e+004$ ($r = 0.9999$)

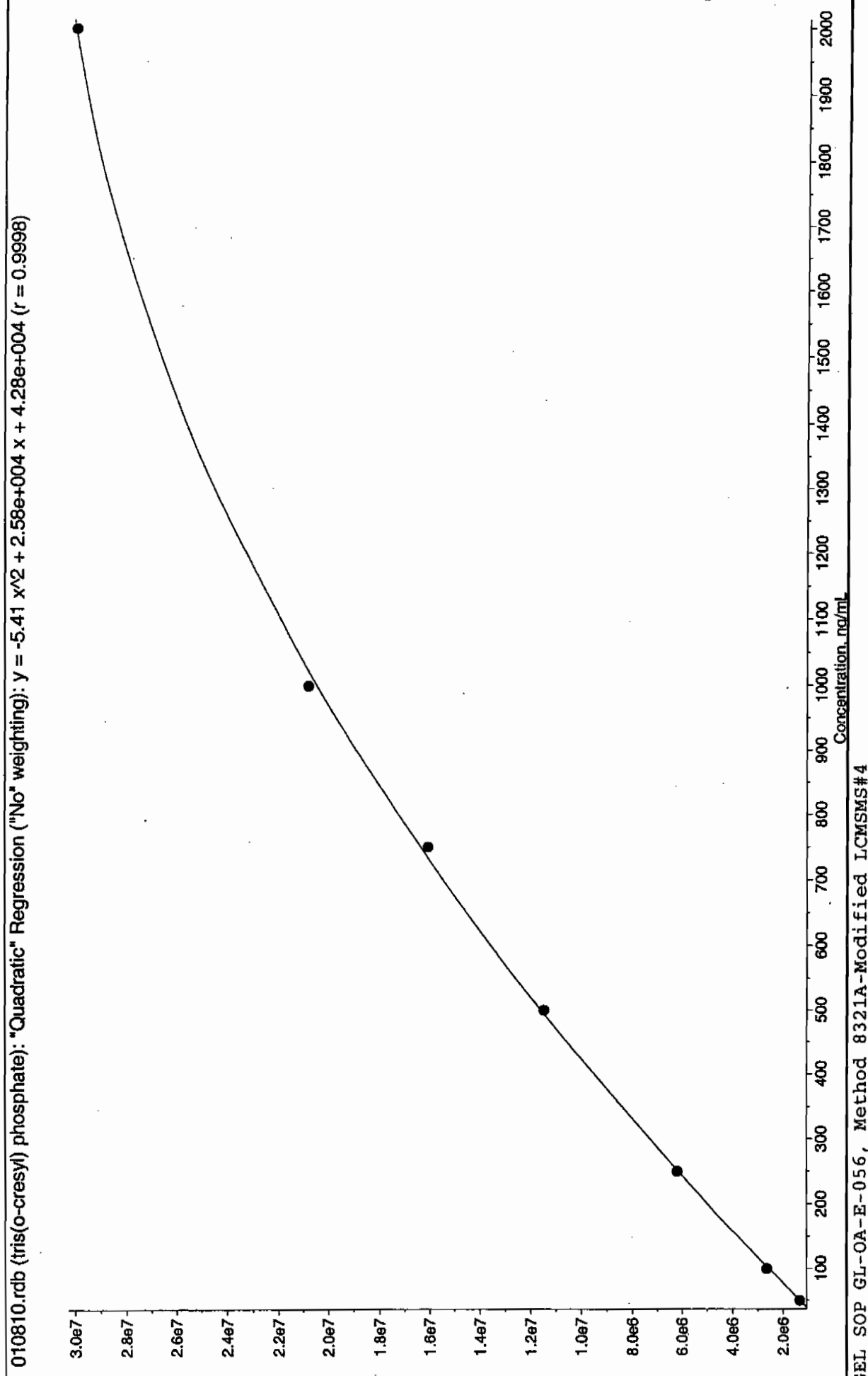


EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

I 010810.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0212 x^2 + 2.37e+003 x + 1.88e+004$ ($r = 0.9997$)



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



IEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEI

GEL Sample ID: WXXICV

GEL Data File EXS01080011.wiff

Analysis Date: 08-JAN-10 17:11

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	446	89	
2,6-Diamino-4-nitrotoluene	500	477	95	
3,4-Dinitrotoluene	250	228	91	
3,5-Dinitroaniline	500	475	95	
TATB	500	509	102	
tris(o-cresyl) phosphate	500	468	94	

Recovery Limits:

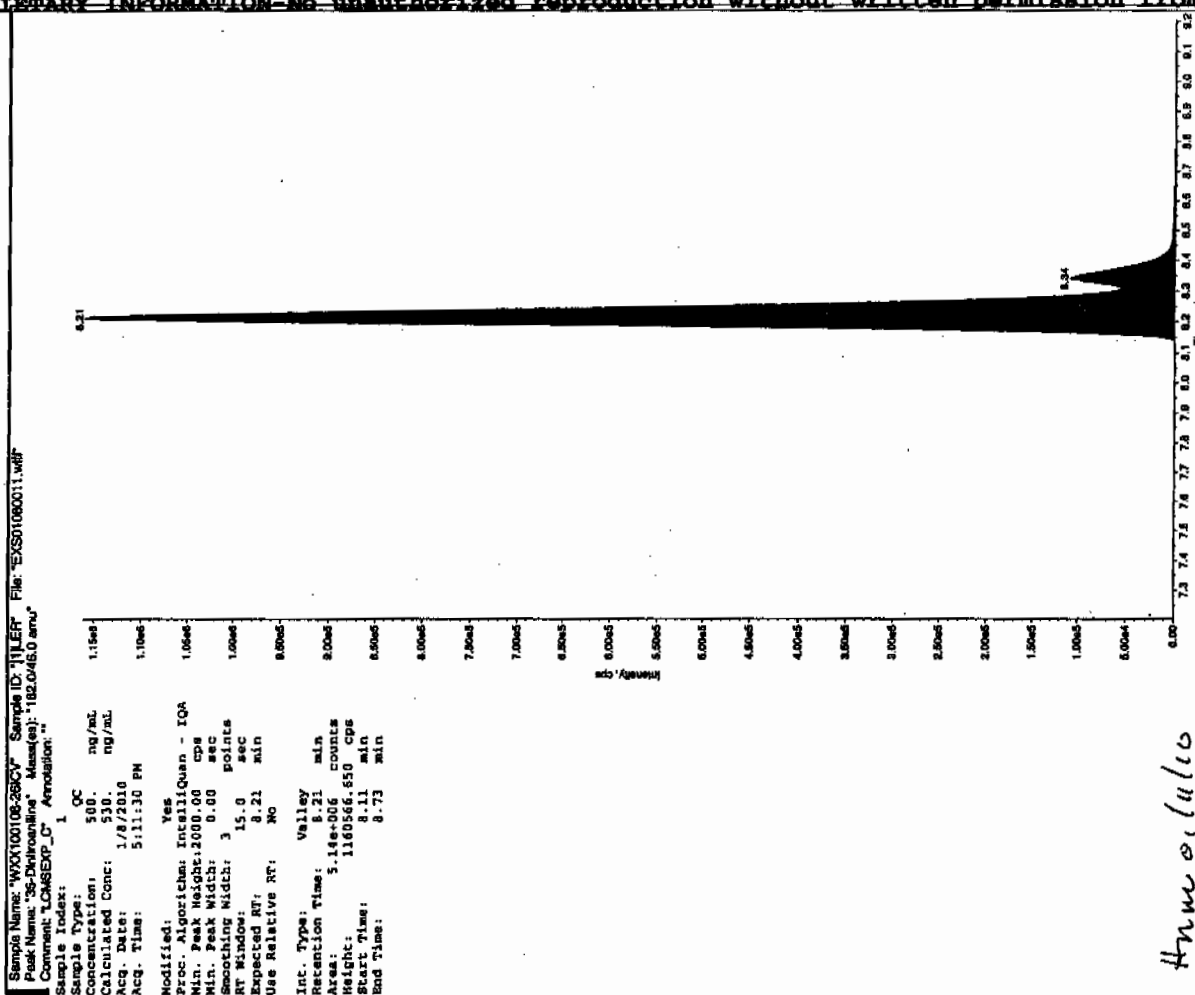
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

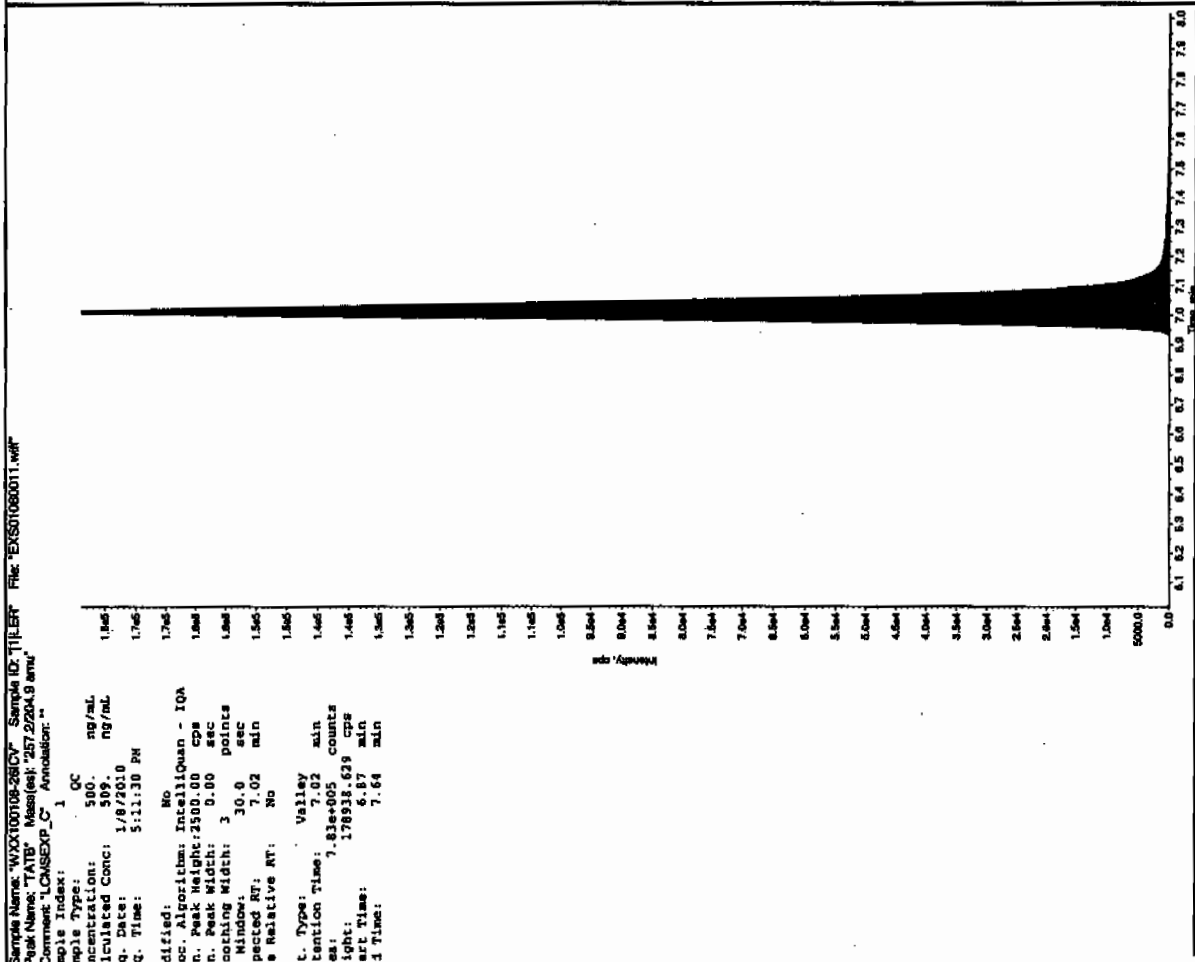
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before 11/10



After 01/10/10



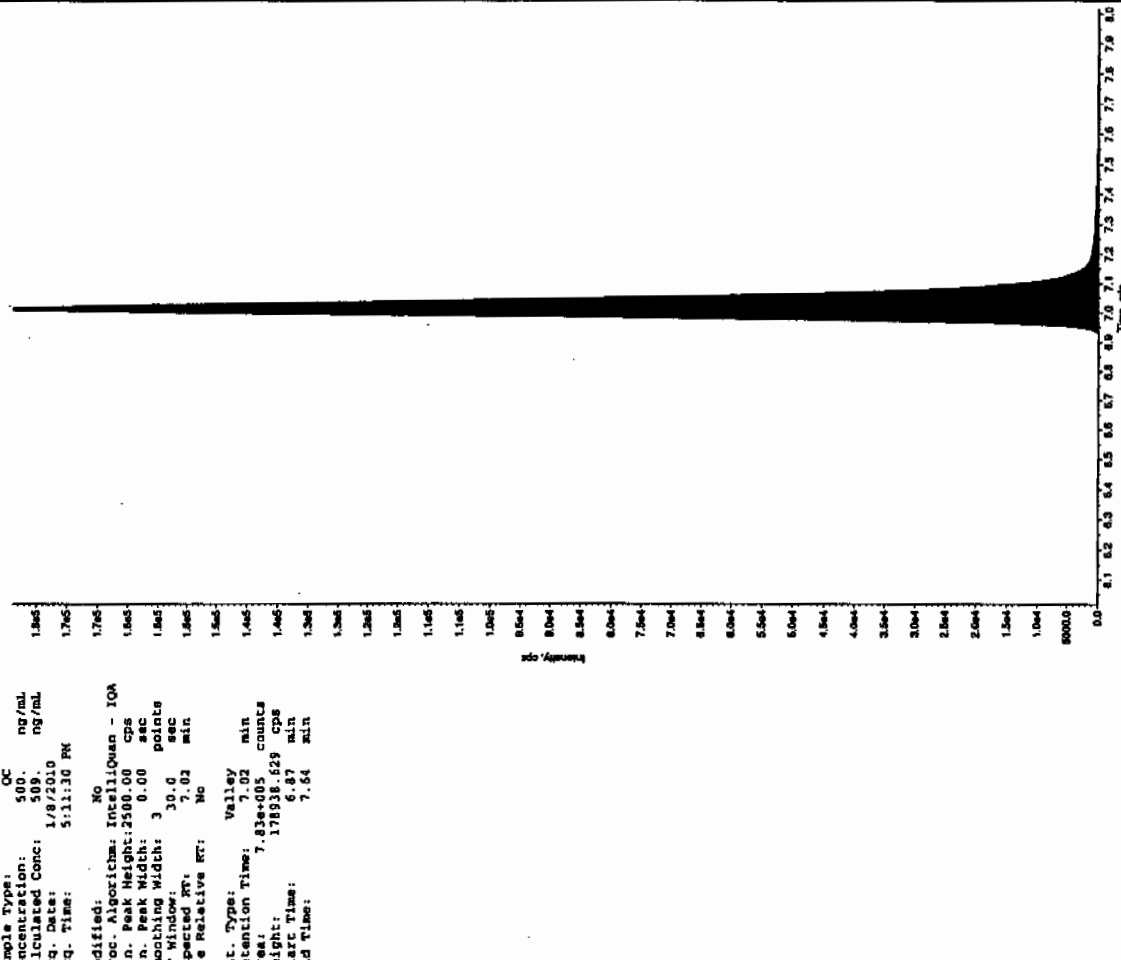
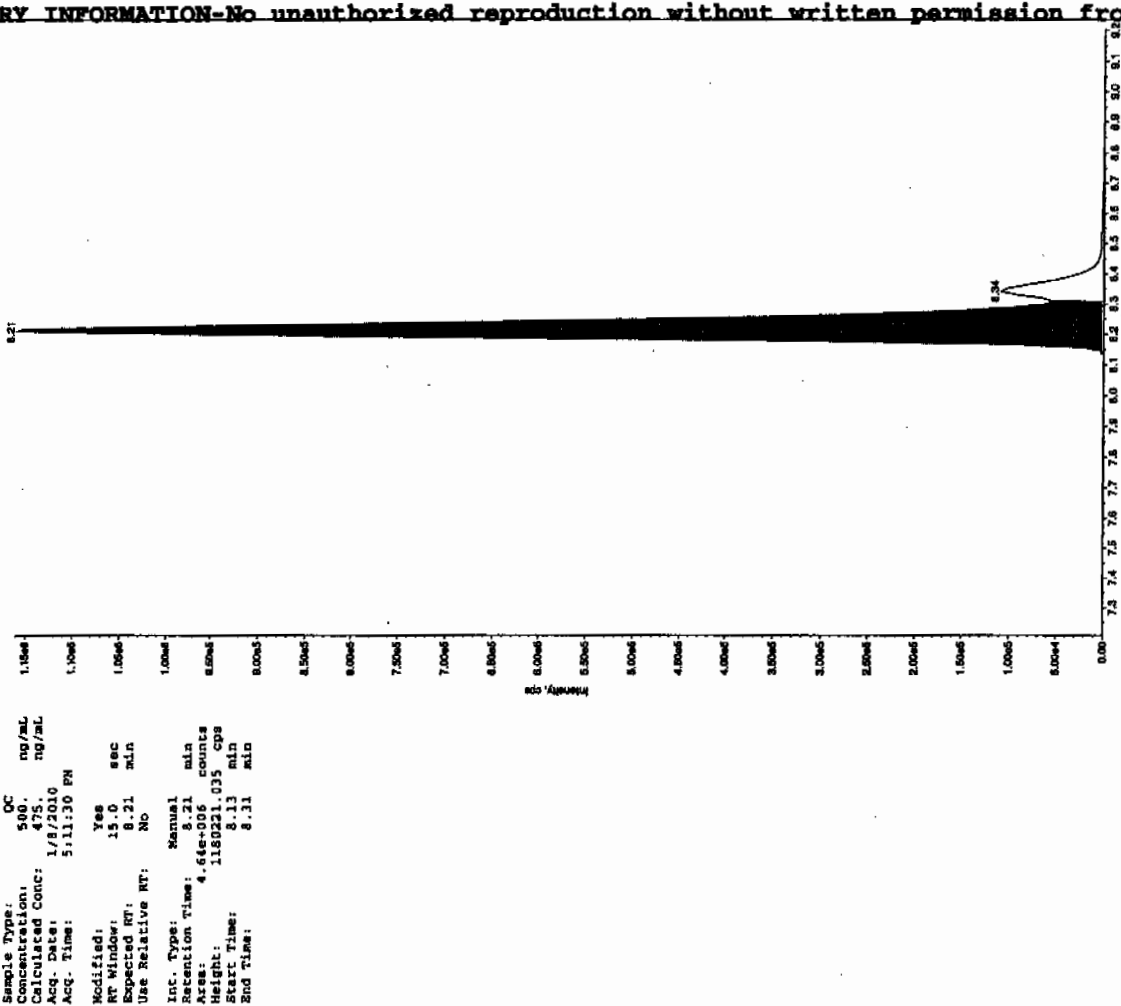
EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-28C" Sample ID: "JELER" File: "EXS01080011.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMS-EXP_C" Annotation: "
 Sample Index: 1

Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 5/11/10 PM
 Acq. Time: 5:11:30 PM
 Modified: No
 RT Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.21 min
 Area: 4.64e+006 counts
 Height: 1180221.035 cps
 Start Time: 8.13 min
 End Time: 8.31 min

Sample Name: "WXX100108-28C" Sample ID: "JELER" File: "EXS01080011.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMS-EXP_C" Annotation: "
 Sample Index: 1

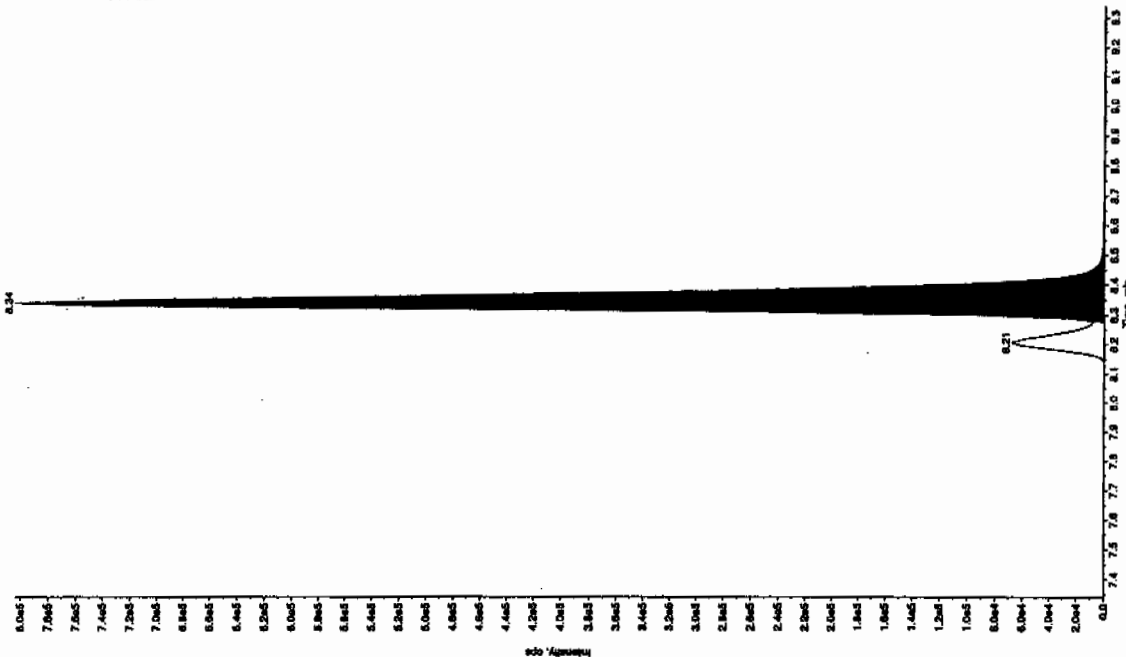
Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 1/8/2010
 Acq. Date: 5/11/10 PM
 Acq. Time: 5:11:30 PM
 Modified: No
 RT Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.21 min
 Area: 4.64e+006 counts
 Height: 1180221.035 cps
 Start Time: 8.13 min
 End Time: 8.31 min



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-250CV" Sample ID: "111LEF" File: "EX051080011.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

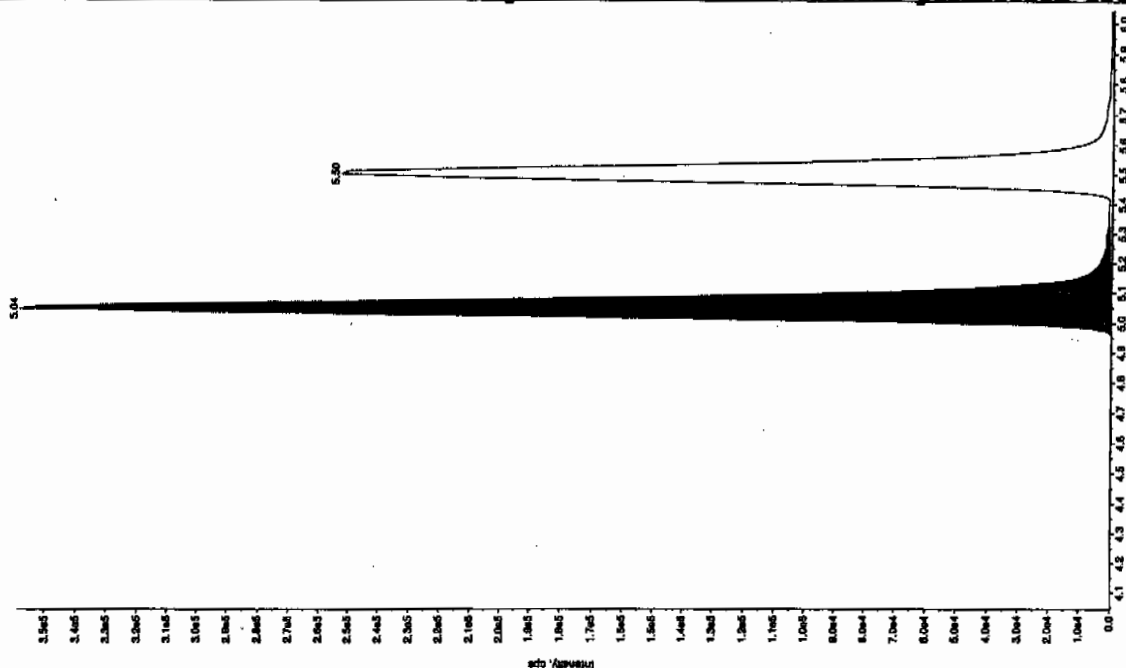
Sample Index: 1
 Sample Type: QC
 Concentration: 250. ng/mL
 Calculated Conc: 22. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 5:11:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 160.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.34 min
 Area: 3.01e+006 counts
 Height: 801639.301 cps
 Start Time: 8.28 min
 End Time: 8.65 min



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

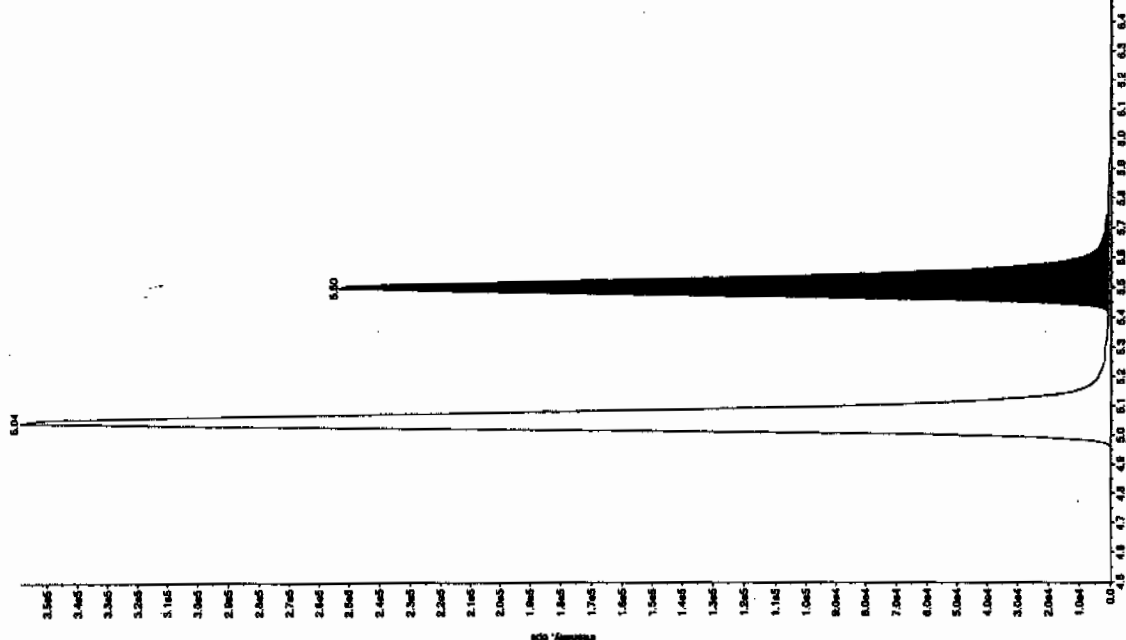
Sample Name: "WXX100108-250CV" Sample ID: "111LEF" File: "EX051080011.wif"
 Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "186.0/186.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 477. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 5:11:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 1.52e+006 counts
 Height: 358430.237 cps
 Start Time: 4.95 min
 End Time: 5.34 min



Sample Name: WXX100108-281CV Sample ID: HLEFF File: EXSD1080011.wif
 Peak Name: 24-Diamino-6-nitrocholine Mass(es): 185.046.0 amu
 Comment: LCMSEXP_C Annotation: --

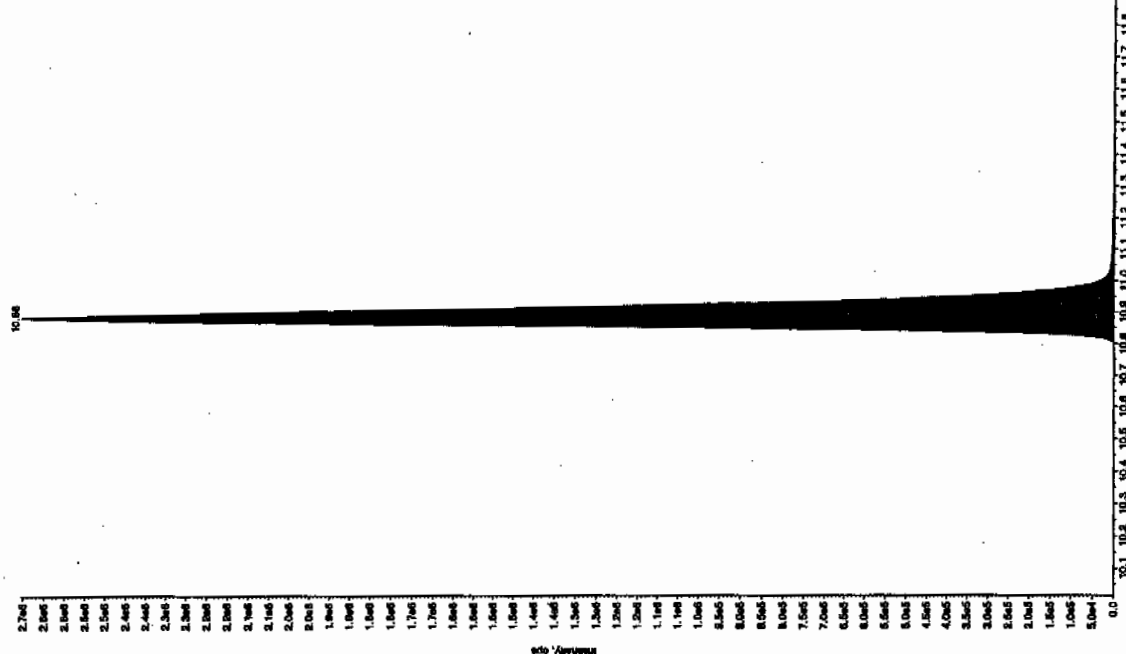
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 466. ng/mL
 Q. Date: 1/8/2010
 Q. Time: 5:11:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.50 min
 Area: 1.07e+006 counts
 Height: 252112.381 cps
 Start Time: 5.41 min
 End Time: 5.86 min



REL SOP GL-OA-E-056, Method 8321A-Modified LCMSEMS#4

Sample Name: WXX100108-281CV Sample ID: HLEFF File: EXSD1080011.wif
 Peak Name: Tri(o-cresyl) phosphate Mass(es): 389.191.0 amu
 Comment: LCMSEXP_C Annotation: --

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 466. ng/mL
 Q. Date: 1/8/2010
 Q. Time: 5:11:30 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 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: 1.09e+007 counts
 Height: 2653878.662 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0117012a

Analysis Date: 17-JAN-10 23:35

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	40	41.344	103	
HMX	40	35.084	88	
Nitrobenzene	40	39.648	99	
PETN	40	44.126	110	
RDX	40	42.371	106	
Tetryl	40	30.226	76	
m-Dinitrobenzene	40	40.598	101	
m-Nitrotoluene	40	43.251	108	
o-Nitrotoluene	40	43.539	109	
p-Nitrotoluene	40	45.782	114	
1,3,5-Trinitrobenzene	40	44.311	111	
1,3-Dinitrobenzene-d4	500	494.735	99	
2,4,6-Trinitrotoluene	40	40.349	101	
2,4-Dinitrotoluene	40	32.817	82	
2,6-Dinitrotoluene	40	39.557	99	
2,6-Dinitrotoluene-d3	500	516.666	103	
2-Amino-4,6-dinitrotoluene	40	41.036	103	
3,4-Dinitrotoluene	20	18.241	91	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Mon Jan 18 07:35:26 2010, Page 23 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0117012a

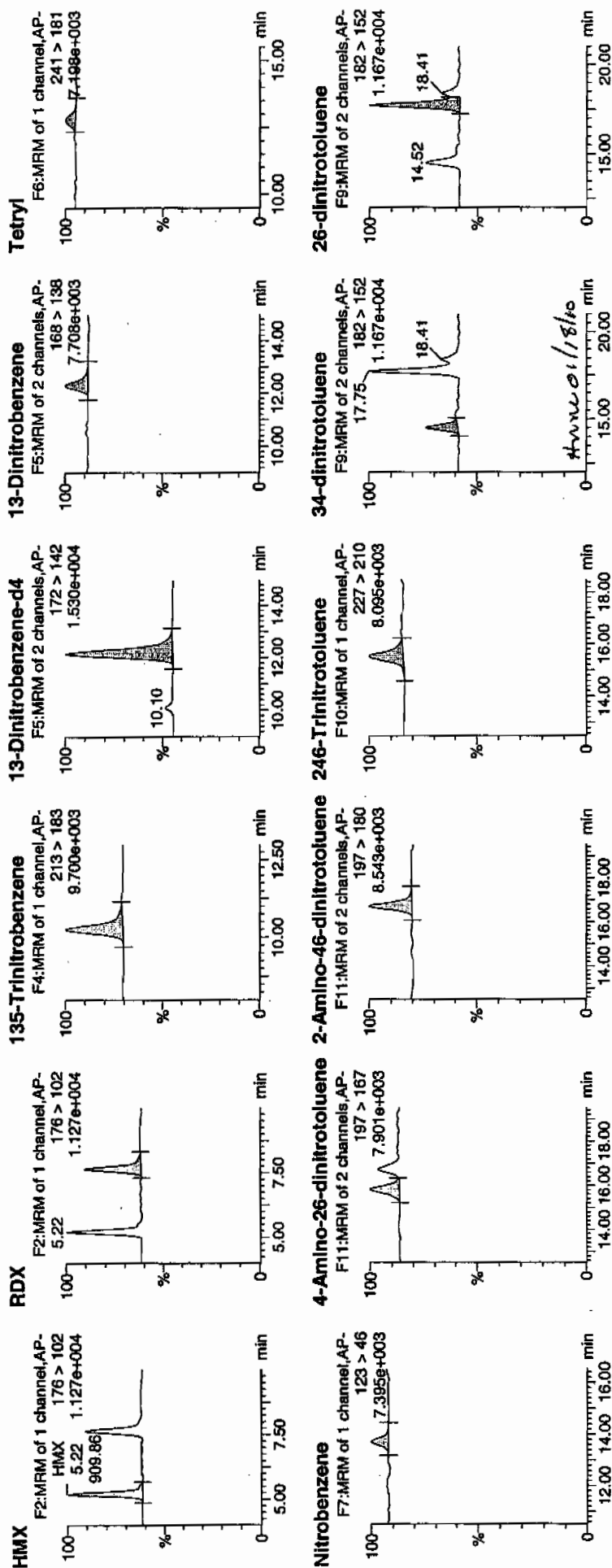
Date: 17-Jan-2010

Time: 23:35:23

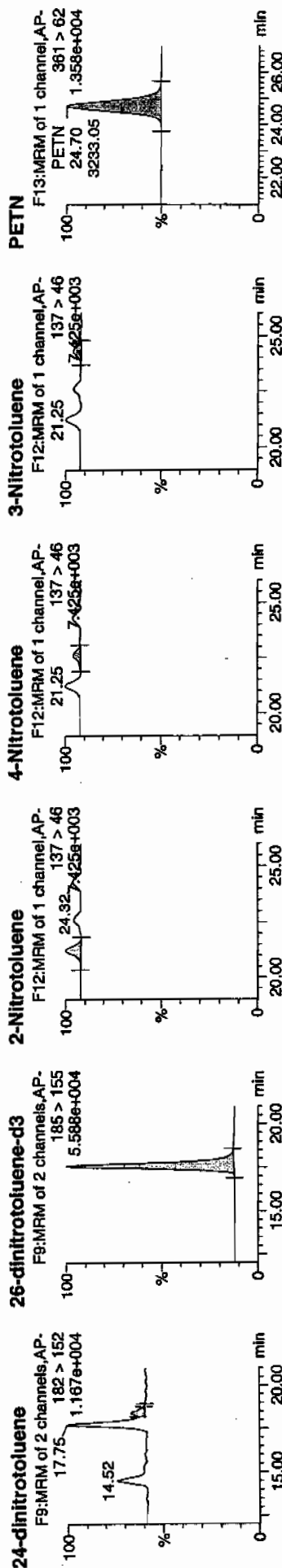
ID: WXX100117-08CRI

Vial: 1:1,C

1/18/10



Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



Name	Trace	RT	Area	IS Area	Area Resp	Peak	ModDate	ModTime	Count	2009	2007	ISIN
HMx	176 > 102	5.22	909.862	3300.380	909.862	137.842	bb		35.0836	87.7	-12.3	123.4
RDX	176 > 102	7.66	818.588	3300.380	818.588	124.014	bb		42.3710	105.9	5.9	93.1
135-Trinitrobenzene	213 > 183	10.25	985.474	3300.380	985.474	149.297	bb		44.3110	110.8	10.8	160.4
13-Dinitrobenzene-d4	172 > 142	12.14	3300.380		3300.380	3300.380	bb		494.7352	98.9	-1.1	246.6
13-Dinitrobenzene	168 > 138	12.28	347.311	3300.380	347.311	52.617	bb		40.5975	101.5	1.5	57.0
Tetryl	241 > 181	12.78	172.589	3300.380	172.589	26.147	bb		30.2256	75.6	-24.4	31.5
Nitrobenzene	123 > 46	13.72	215.588	3300.380	215.588	32.658	bb		39.6478	99.1	-0.9	16.1
4-Amino-26-dinitrotoluene	197 > 167	15.83	466.878	19416.412	466.878	12.023	MM	18-Jan-10 07:23:51	41.3436	103.4	3.4	35.6
2-Amino-46-dinitrotoluene	197 > 180	16.71	666.682	19416.412	666.682	17.168	bb		41.0361	102.6	2.6	75.8
246-Trinitrotoluene	227 > 210	15.52	550.202	19416.412	550.202	14.168	bb		40.3486	100.9	0.9	56.2
34-dinitrotoluene	182 > 152	14.52	650.228	19416.412	650.228	16.744	bb		18.2412	91.2	-8.8	27.3
26-dinitrotoluene	182 > 152	17.75	1716.390	19416.412	1716.390	44.199	MM	18-Jan-10 07:29:55	39.5574	98.9	-1.1	75.7
24-dinitrotoluene	182 > 152	18.41	324.211	19416.412	324.211	8.349	MM	18-Jan-10 07:32:06	32.8166	82.0	-18.0	13.5
26-dinitrotoluene-d3	185 > 155	17.57	19416.412		19416.412	19416.412	bb		516.6665	103.3	3.3	1162.2
2-Nitrotoluene	137 > 46	21.25	265.636	19416.412	265.636	6.841	bb		43.5387	108.8	8.8	56.7
4-Nitrotoluene	137 > 46	22.61	133.040	19416.412	133.040	3.426	bb		45.7815	114.5	14.5	26.2
3-Nitrotoluene	137 > 46	24.32	140.993	19416.412	140.993	3.631	bb		43.2511	108.1	8.1	28.6
PETN	361 > 62	24.70	3233.046	19416.412	3233.046	83.255	bb		44.1258	110.3	10.3	890.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/17/10
 Time of Injection 2335
 Standard Number WXX100117-08CRI
 Data File EXP0117012a

HMX	87.7
RDX	105.9
135-TNB	110.8
13-DNB	101.5
Tetryl	75.6
Nitrobenzene	99.1
4A-26-DNT	103.4
2A-46-DNT	102.6
246-TNT	100.9
34-DNT(surr)	91.2
26-DNT	98.9
24-DNT	82.0
2-NT	108.8
4-NT	114.5
3-NT	108.1
PETN	110.3

*WXX
1/18/10*

Total 1601.3

Average 100.1

Handwritten: 01/18/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0117019a

Analysis Date: 18-JAN-10 03:01

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	584.654	97	
2,6-Dinitrotoluene	600	597.536	100	
2,6-Dinitrotoluene-d3	500	550.87	110	
2-Amino-4,6-dinitrotoluene	600	674.35	112	
3,4-Dinitrotoluene	300	257.899	86	
4-Amino-2,6-dinitrotoluene	600	540.096	90	
HMX	600	655.535	109	
Nitrobenzene	600	658.2	110	
PETN	600	448.407	75	*
RDX	600	652.295	109	
Tetryl	600	602.948	100	
m-Dinitrobenzene	600	595.886	99	
m-Nitrotoluene	600	568.968	95	
o-Nitrotoluene	600	531.217	89	
p-Nitrotoluene	600	499.672	83	
1,3,5-Trinitrobenzene	600	601.7	100	
1,3-Dinitrobenzene-d4	500	452.532	91	
2,4,6-Trinitrotoluene	600	549.142	92	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Mon Jan 18 07:35:26 2010, Page 37 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0117019a

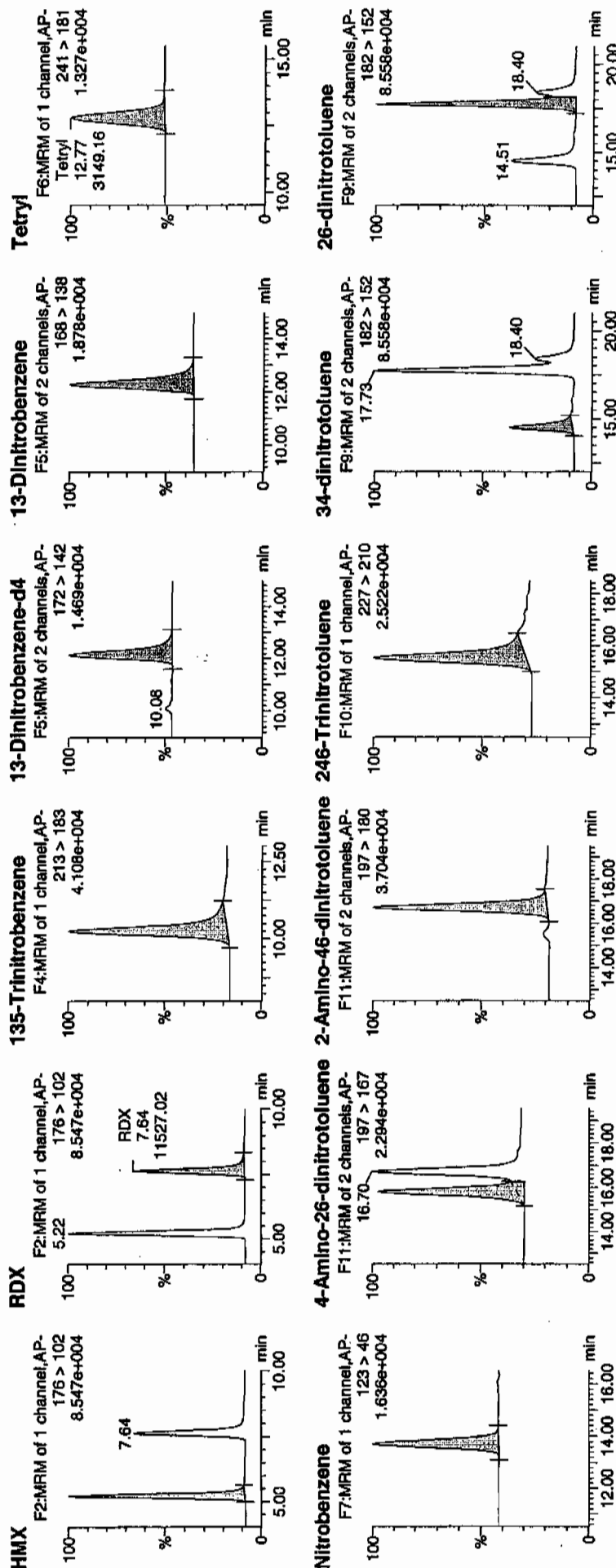
Date: 18-Jan-2010

Time: 03:01:48

ID: WXX100117-07CCV

Vial: 1:1,B

1/18/10

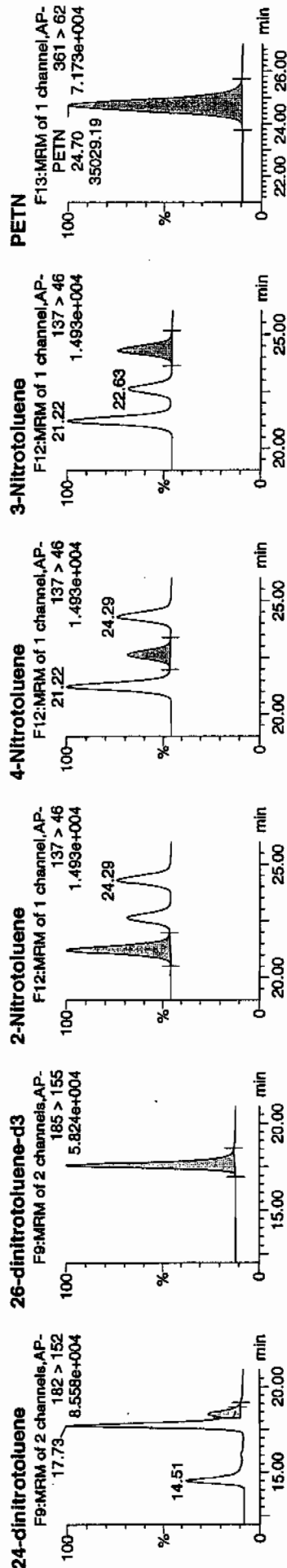


1/18/10

Quantify Sample Report

Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



Name	Chemical Structure	IR (cm ⁻¹)	¹ H NMR (ppm)	¹³ C NMR (ppm)	Isolated	Yield (%)	Purity (%)	Ref.	Mod. Date	Mod. Time	Lab. No.	Exp. No.	Yield (%)	Yield (%)	Yield (%)
HMX	WXX100117-07CCV	176 > 102	5.22	15550.478	3018.842	15550.478	2575.570	bb			655.5354	109.3	9.3	517.2	517.2
ADX	WXX100117-07CCV	176 > 102	7.64	11527.018	3018.842	11527.018	1909.179	bb			652.2954	108.7	8.7	324.3	324.3
135-Trinitrobenzene	WXX100117-07CCV	213 > 183	10.25	12240.259	3018.842	12240.259	2027.310	bb			601.7004	100.3	0.3	724.6	724.6
13-Dinitrobenzene-d4	WXX100117-07CCV	172 > 142	12.14	3018.842		3018.842	3018.842	bb			452.5320	90.5	-9.5	389.7	389.7
13-Dinitrobenzene	WXX100117-07CCV	168 > 138	12.27	4662.926	3018.842	4662.926	772.304	bb			595.8856	99.3	-0.7	613.8	613.8
Tetyl	WXX100117-07CCV	241 > 181	12.77	3149.161	3018.842	3149.161	521.584	bb			602.9478	100.5	0.5	257.1	257.1
Nitrobenzene	WXX100117-07CCV	123 > 46	13.71	3273.396	3018.842	3273.396	542.161	bb			658.1999	109.7	9.7	389.6	389.6
4-Amino-26-dinitrotoluene	WXX100117-07CCV	197 > 167	15.79	6502.868	20701.775	6502.868	157.061	MM	18-Jan-10	07:24:15	540.0961	90.0	-10.0	306.1	306.1
2-Amino-46-dinitrotoluene	WXX100117-07CCV	197 > 180	16.70	11680.906	20701.775	11680.906	282.123	bb			674.3497	112.4	12.4	893.6	893.6
246-Trinitrotoluene	WXX100117-07CCV	227 > 210	15.54	7983.931	20701.775	7983.931	192.832	bb			549.1417	91.5	-8.5	258.8	258.8
34-dinitrotoluene	WXX100117-07CCV	182 > 152	14.51	9801.669	20701.775	9801.669	236.735	bb			257.8987	86.0	-14.0	154.6	154.6
26-dinitrotoluene	WXX100117-07CCV	182 > 152	17.73	27643.359	20701.775	27643.359	667.657	MM	18-Jan-10	07:30:09	597.5360	99.6	-0.4	486.9	486.9
24-dinitrotoluene	WXX100117-07CCV	182 > 152	18.40	6158.464	20701.775	6158.464	148.742	MM	18-Jan-10	07:32:17	584.6543	97.4	-2.6	88.0	88.0
26-dinitrotoluene-d3	WXX100117-07CCV	185 > 155	17.57	20701.775		20701.775	20701.775	bb			550.8697	110.2	10.2	852.6	852.6
2-Nitrotoluene	WXX100117-07CCV	137 > 46	21.22	3455.592	20701.775	3455.592	83.461	bb			531.2170	88.5	-11.5	358.3	358.3
4-Nitrotoluene	WXX100117-07CCV	137 > 46	22.63	1548.160	20701.775	1548.160	37.392	bb			499.6721	83.3	-16.7	150.9	150.9
3-Nitrotoluene	WXX100117-07CCV	137 > 46	24.29	1977.545	20701.775	1977.545	47.763	bb			568.9676	94.8	-5.2	188.0	188.0
PETN	WXX100117-07CCV	361 > 62	24.70	35029.188	20701.775	35029.188	846.043	bb			448.4069	74.7	-25.3	5145.3	5145.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/18/10
 Time of Injection: 0301
 Standard Number: WXX100117-07CCV
 Data File: EXP0117019a

HMX	109.3
RDX	108.7
135-TNB	100.3
13-DNB	99.3
Tetryl	100.5
Nitrobenzene	109.7
4A-26-DNT	90.0
2A-46-DNT	112.4
246-TNT	91.5
34-DNT(surr)	86.0
26-DNT	99.6
24-DNT	97.4
2-NT	88.5
4-NT	83.3
3-NT	94.8
PETN	74.7

*WXP
1/18/10*

Total 1546.0

Average 96.6

Handwritten signature

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): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0117021a

Analysis Date: 18-JAN-10 04:00

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	45.866	115	
1,3-Dinitrobenzene-d4	500	506.668	101	
2,4,6-Trinitrotoluene	40	42.621	107	
2,4-Dinitrotoluene	40	42.995	107	
2,6-Dinitrotoluene	40	39.945	100	
2,6-Dinitrotoluene-d3	500	587.862	118	
2-Amino-4,6-dinitrotoluene	40	40.682	102	
3,4-Dinitrotoluene	20	23.103	116	
4-Amino-2,6-dinitrotoluene	40	35.511	89	
HMX	40	38.157	95	
Nitrobenzene	40	41.578	104	
PETN	40	42.169	105	
RDX	40	37.528	94	
Tetryl	40	43.886	110	
m-Dinitrobenzene	40	37.971	95	
m-Nitrotoluene	40	29.079	73	
o-Nitrotoluene	40	36.118	90	
p-Nitrotoluene	40	32.463	81	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0117021a

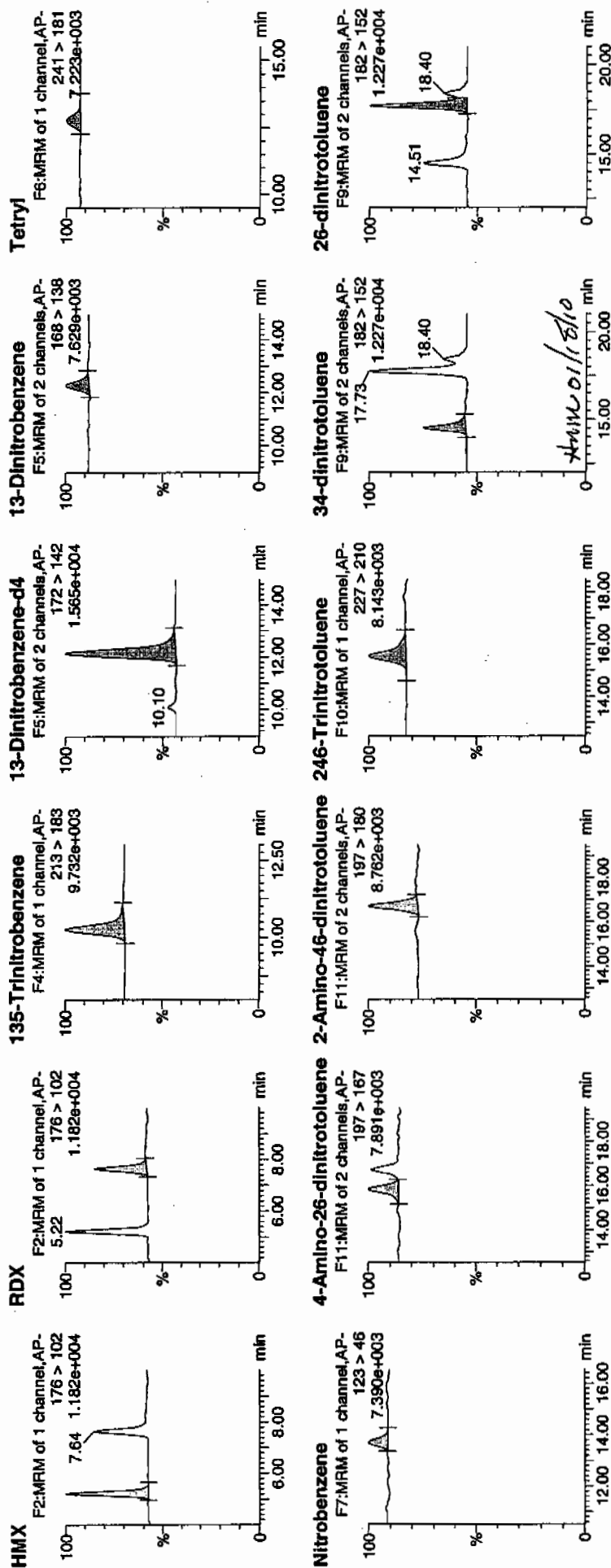
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Time: 04:00:45

ID: WXX100117-08CRI

Vial: 1:1,C

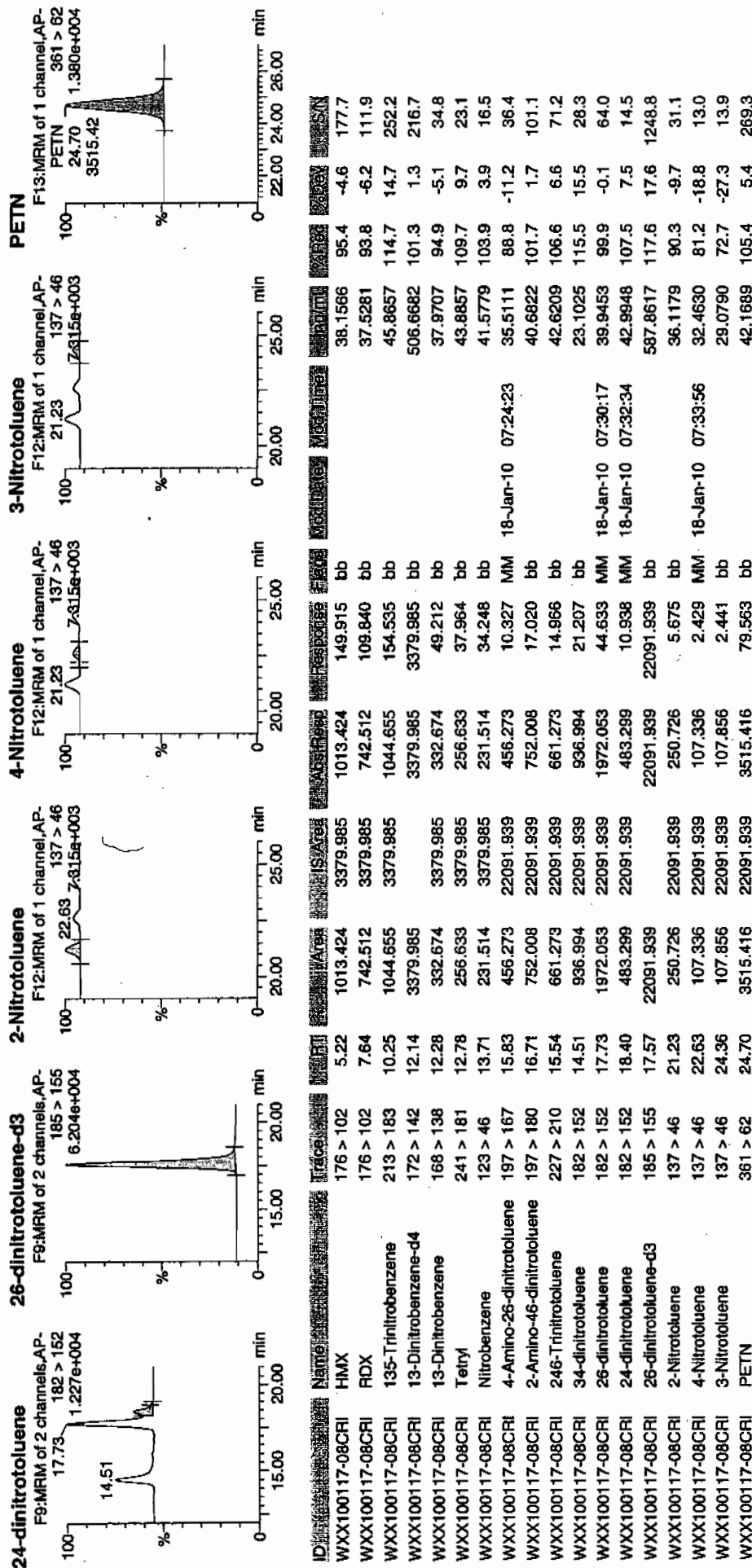
AP
1/18/10



Printed: Mon Jan 18 07:35:26 2010, Page 42 of 43

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA.qld, Time: Mon Jan 18 07:34:18 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/18/10
 Time of Injection 0400
 Standard Number WXX100117-08CRI
 Data File EXP0117021a

HMX	95.4
RDX	93.8
135-TNB	114.7
13-DNB	94.9
Tetryl	109.7
Nitrobenzene	103.9
4A-26-DNT	88.8
2A-46-DNT	101.7
246-TNT	106.6
34-DNT(surr)	115.5
26-DNT	99.9
24-DNT	107.5
2-NT	90.3
4-NT	81.2
3-NT	72.7
PETN	105.4

*not
1/18/10*

Total 1582.0

Average 98.9

done 01/18/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0117027a

Analysis Date: 18-JAN-10 06:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	600	554.962	92	
Nitrobenzene	600	620.891	103	
PETN	600	493.932	82	
RDX	600	580.794	97	
Tetryl	600	612.07	102	
m-Dinitrobenzene	600	572.626	95	
m-Nitrotoluene	600	570.48	95	
o-Nitrotoluene	600	549.837	92	
p-Nitrotoluene	600	645.207	108	
1,3,5-Trinitrobenzene	600	605.344	101	
1,3-Dinitrobenzene-d4	500	456.617	91	
2,4,6-Trinitrotoluene	600	578.584	96	
2,4-Dinitrotoluene	600	624.358	104	
2,6-Dinitrotoluene	600	612.899	102	
2,6-Dinitrotoluene-d3	500	516.273	103	
2-Amino-4,6-dinitrotoluene	600	557.24	93	
3,4-Dinitrotoluene	300	279.315	93	
4-Amino-2,6-dinitrotoluene	600	542.186	90	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Mon Jan 18 13:16:14 2010, Page 11 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117027a

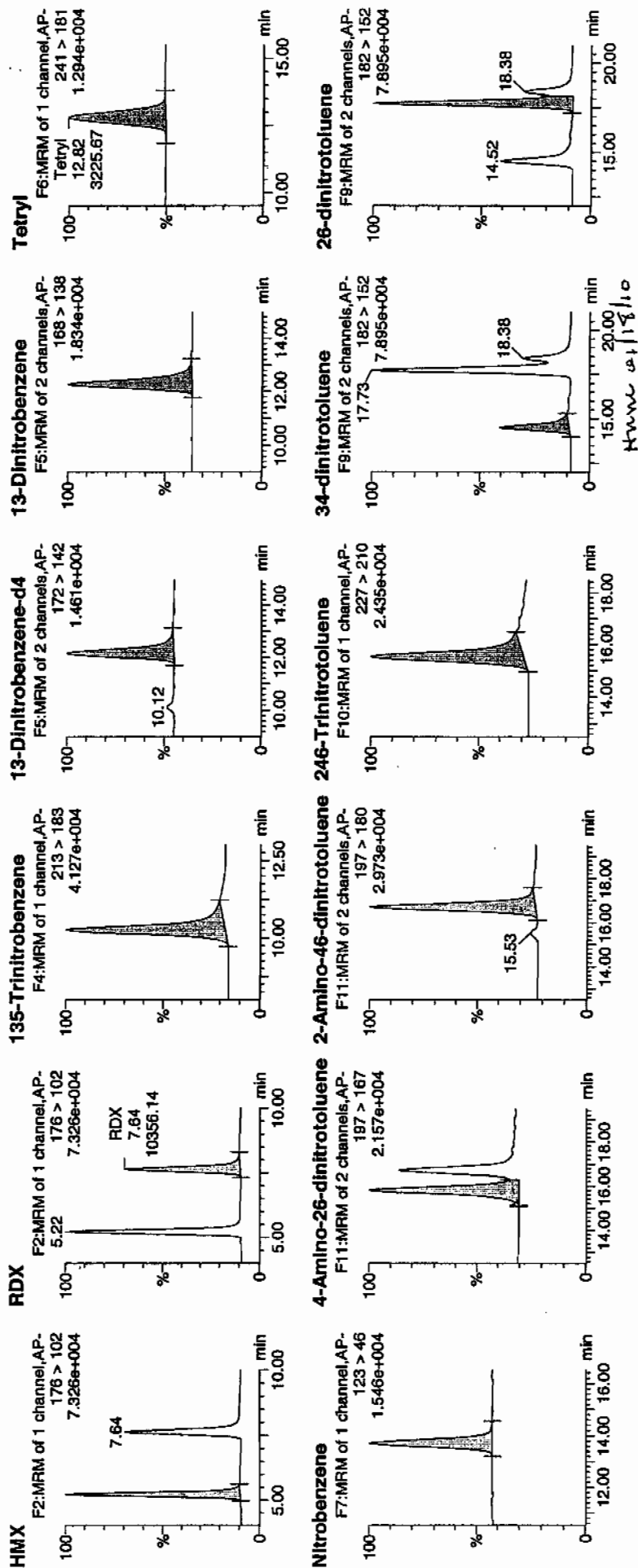
Date: 18-Jan-2010

Time: 06:57:43

ID: WXX100117-07CCV

Vial: 1:1,B

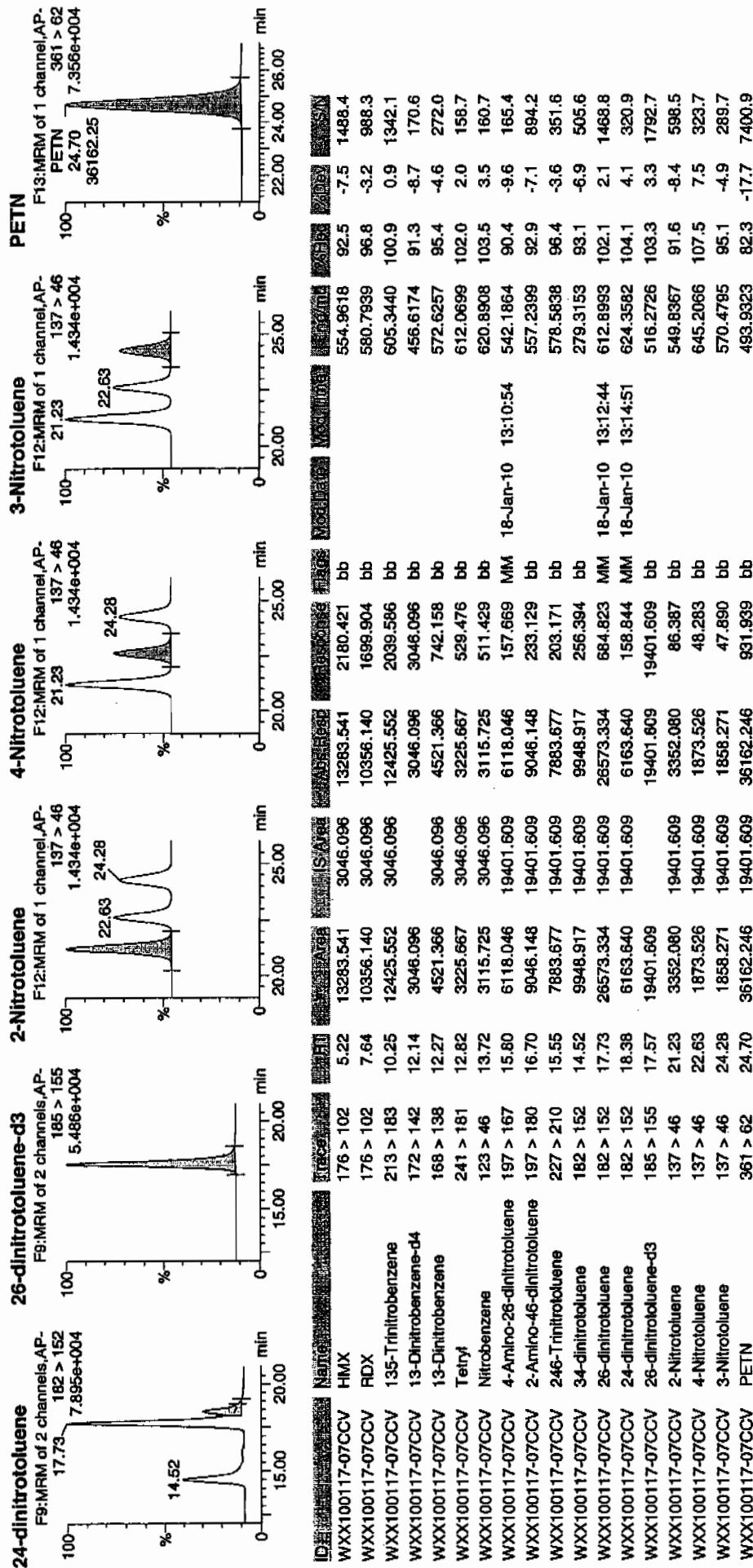
1/18/10



Printed: Mon Jan 18 13:16:14 2010, Page 12 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 01/18/10
 Time of Injection: 0657
 Standard Number: WXX100117-07CCV
 Data File: EXP0117027a

HMX	92.5
RDX	96.8
135-TNB	100.9
13-DNB	95.4
Tetryl	102.0
Nitrobenzene	103.5
4A-26-DNT	90.4
2A-46-DNT	92.9
246-TNT	96.4
34-DNT(surr)	93.1
26-DNT	102.1
24-DNT	104.1
2-NT	91.6
4-NT	107.5
3-NT	95.1
PETN	82.3

mtt
1/13/10

Total 1546.6

Average 96.7

mtm 01/18/10

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): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0117029a

Analysis Date: 18-JAN-10 07:56

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	47.763	119	
1,3-Dinitrobenzene-d4	500	472.817	95	
2,4,6-Trinitrotoluene	40	45.303	113	
2,4-Dinitrotoluene	40	30.398	76	
2,6-Dinitrotoluene	40	41.903	105	
2,6-Dinitrotoluene-d3	500	462.62	93	
2-Amino-4,6-dinitrotoluene	40	36.789	92	
3,4-Dinitrotoluene	20	20.096	100	
4-Amino-2,6-dinitrotoluene	40	39.835	100	
HMX	40	37.366	93	
Nitrobenzene	40	36.365	91	
PETN	40	51.084	128	
RDX	40	36.827	92	
Tetryl	40	59.177	148	*
m-Dinitrobenzene	40	42.338	106	
m-Nitrotoluene	40	36.688	92	
o-Nitrotoluene	40	43.503	109	
p-Nitrotoluene	40	36.1	90	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

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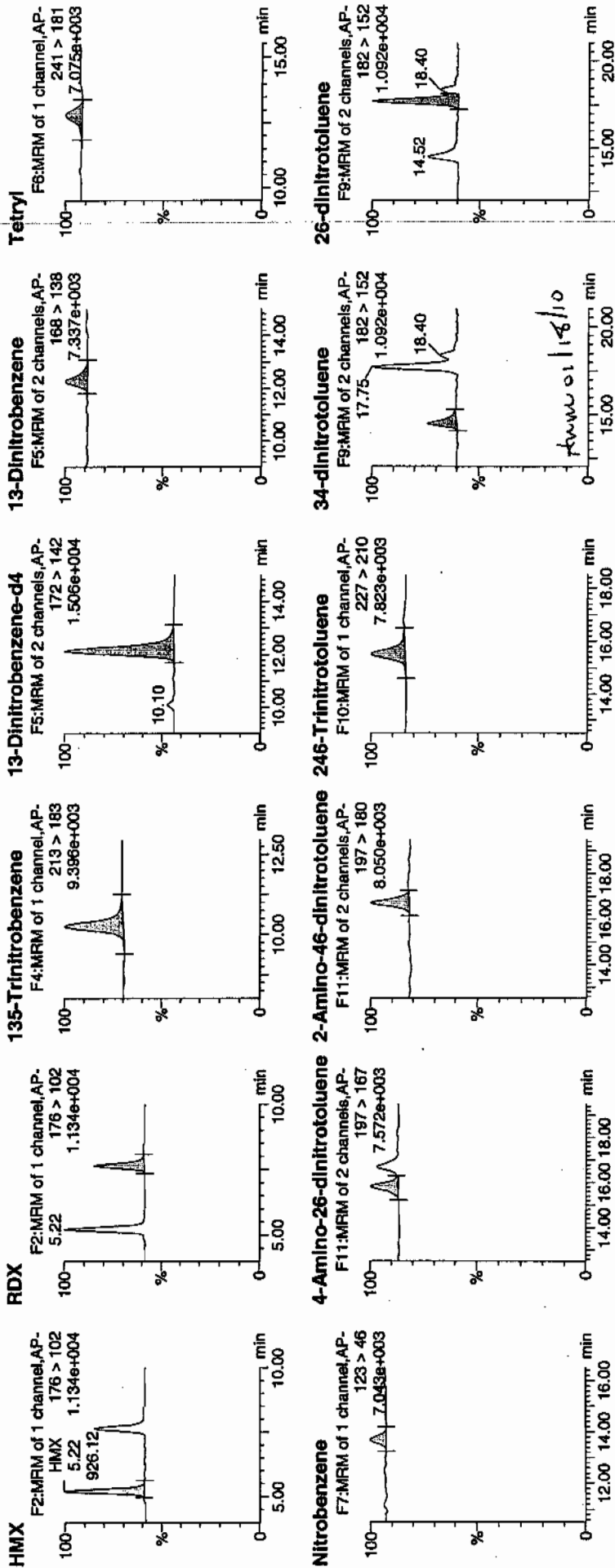
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Time: 07:56:40

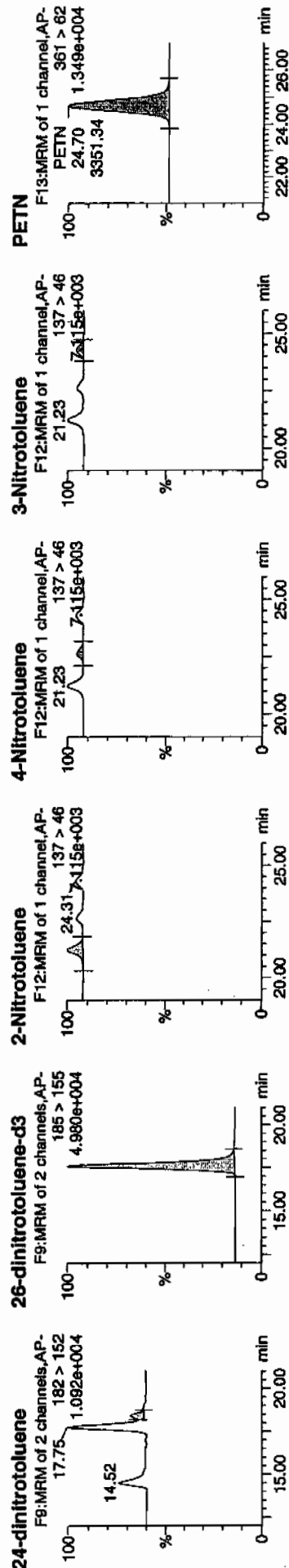
ID: WXX100117-08CRI

Vial: 1:1,C

1/18/10



Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



Name	ID	Dose	Trace	PU	Area	IS Area	Peak Area	Response	Height	Molecular Weight	Conc.	Time	Temp
HMX	WXX100117-08CRI	176 > 102	5.22	926.122	3154.165	926.122	146.809	bb	37.3660	93.4	-6.6	107.2	
RDX	WXX100117-08CRI	176 > 102	7.64	679.950	3154.165	679.950	107.786	bb	36.8265	92.1	-7.9	68.6	
135-Trinitrobenzene	WXX100117-08CRI	213 > 183	10.25	1015.185	3154.165	1015.185	160.928	bb	47.7629	119.4	19.4	142.1	
13-Dinitrobenzene-d4	WXX100117-08CRI	172 > 142	12.14	3154.165		3154.165	3154.165	bb	472.8172	94.6	-5.4	259.7	
13-Dinitrobenzene	WXX100117-08CRI	168 > 138	12.28	346.157	3154.165	346.157	54.873	bb	42.3383	105.8	5.8	29.3	
Tetryl	WXX100117-08CRI	241 > 181	12.78	322.934	3154.165	322.934	51.192	bb	59.1772	147.9	47.9	24.8	
Nitrobenzene	WXX100117-08CRI	123 > 46	13.67	188.957	3154.165	188.957	29.954	bb	36.3646	90.9	-9.1	17.8	
4-Amino-26-dinitrotoluene	WXX100117-08CRI	197 > 167	15.83	402.782	17385.336	402.782	11.584	MM	39.8346	99.6	-0.4	29.7	
2-Amino-46-dinitrotoluene	WXX100117-08CRI	197 > 180	16.70	535.166	17385.336	535.166	15.391	bb	36.7893	92.0	-8.0	86.3	
246-Trinitrotoluene	WXX100117-08CRI	227 > 210	15.52	553.145	17385.336	553.145	15.908	bb	45.3034	113.3	13.3	69.8	
34-dinitrotoluene	WXX100117-08CRI	182 > 152	14.52	641.415	17385.336	641.415	18.447	bb	20.0961	100.5	0.5	26.4	
26-dinitrotoluene	WXX100117-08CRI	182 > 152	17.75	1627.980	17385.336	1627.980	46.820	MM	41.9032	104.8	4.8	75.8	
24-dinitrotoluene	WXX100117-08CRI	182 > 152	18.40	268.897	17385.336	268.897	7.733	MM	30.3975	76.0	-24.0	13.6	
26-dinitrotoluene-d3	WXX100117-08CRI	185 > 155	17.57	17385.336		17385.336	17385.336	bb	462.6200	92.5	-7.5	1422.3	
2-Nitrotoluene	WXX100117-08CRI	137 > 46	21.23	237.656	17385.336	237.656	6.835	bb	43.5034	108.8	8.8	44.9	
4-Nitrotoluene	WXX100117-08CRI	137 > 46	22.62	93.931	17385.336	93.931	2.701	bb	36.0996	90.2	-8.8	18.5	
3-Nitrotoluene	WXX100117-08CRI	137 > 46	24.31	107.086	17385.336	107.086	3.080	bb	36.6875	91.7	-8.3	19.9	
PETN	WXX100117-08CRI	361 > 62	24.70	3351.336	17385.336	3351.336	96.384	bb	51.0840	127.7	27.7	387.9	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 01/18/10
 Time of Injection 0756
 Standard Number WXX100117-08CRI
 Data File EXP0117029a

HMX	93.4
RDX	92.1
135-TNB	119.4
13-DNB	105.8
Tetryl	147.9
Nitrobenzene	90.9
4A-26-DNT	99.6
2A-46-DNT	92.0
246-TNT	113.3
34-DNT(surr)	100.5
26-DNT	104.8
24-DNT	76.0
2-NT	108.8
4-NT	90.2
3-NT	91.7
PETN	127.7

MTT
1/18/10

Total 1654.1

Average 103.4

Handwritten signature
01/18/10

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): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01080013.wiff

Analysis Date: 08-JAN-10 17:42

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	100	99.1	99	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	98.2	98	
2,4-Diamino-6-nitrotoluene	100	85.6	86	
2,6-Diamino-4-nitrotoluene	100	92.5	93	
3,4-Dinitrotoluene	50	51.1	102	

Recovery Limits:

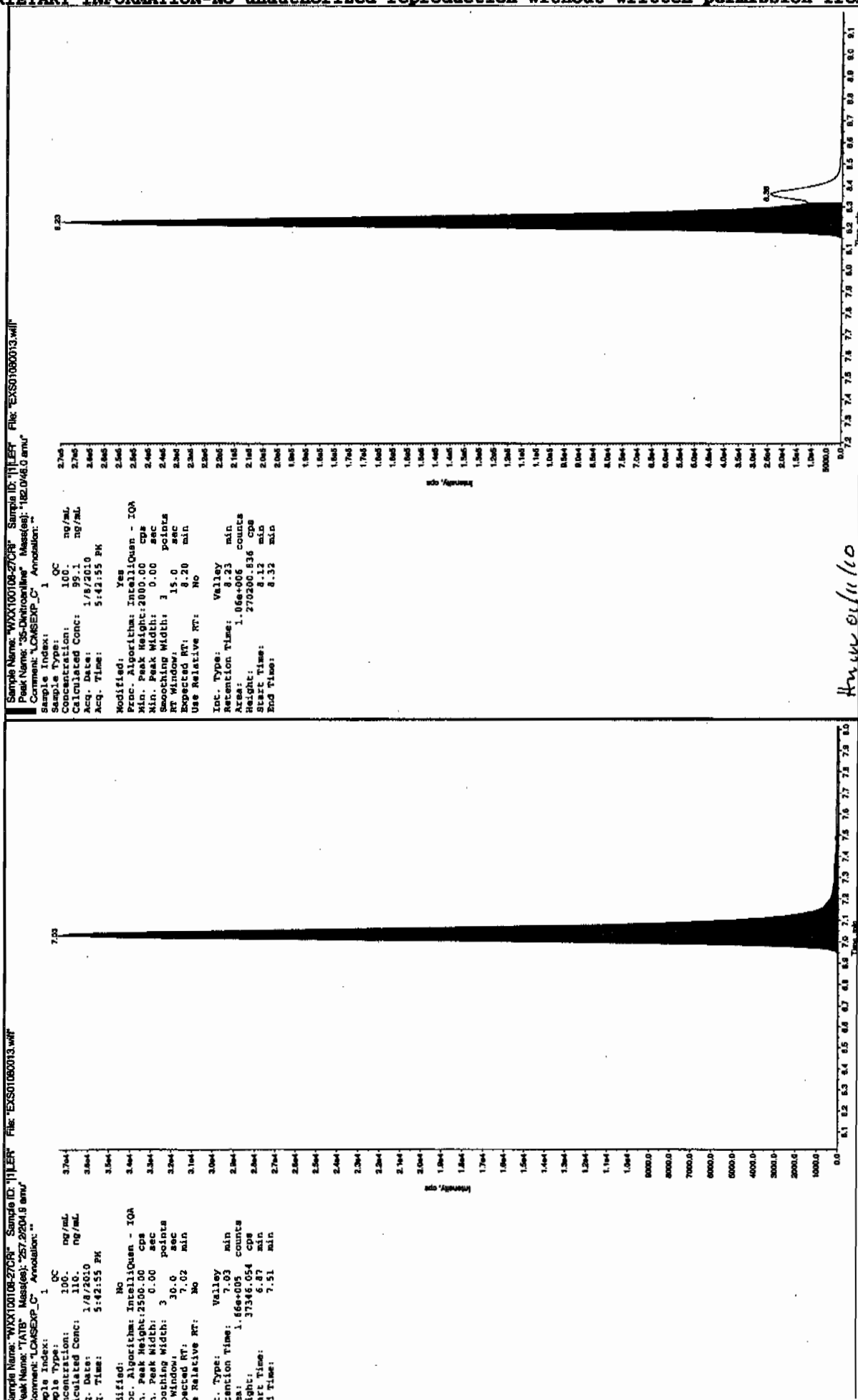
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

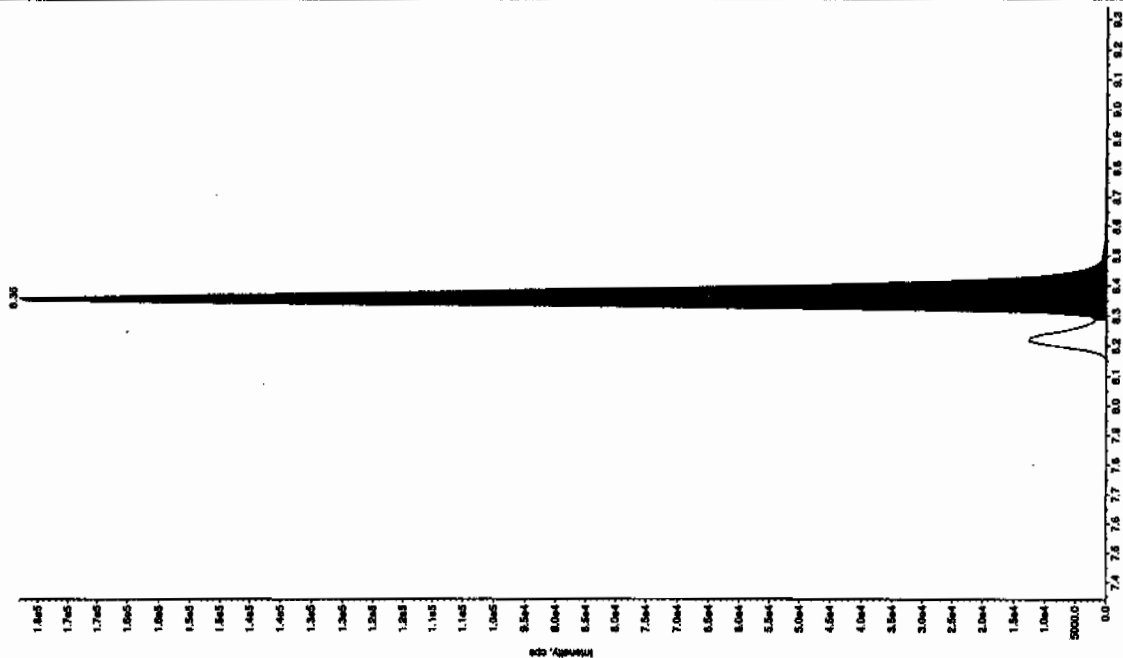
* Value outside of Recovery Limits



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

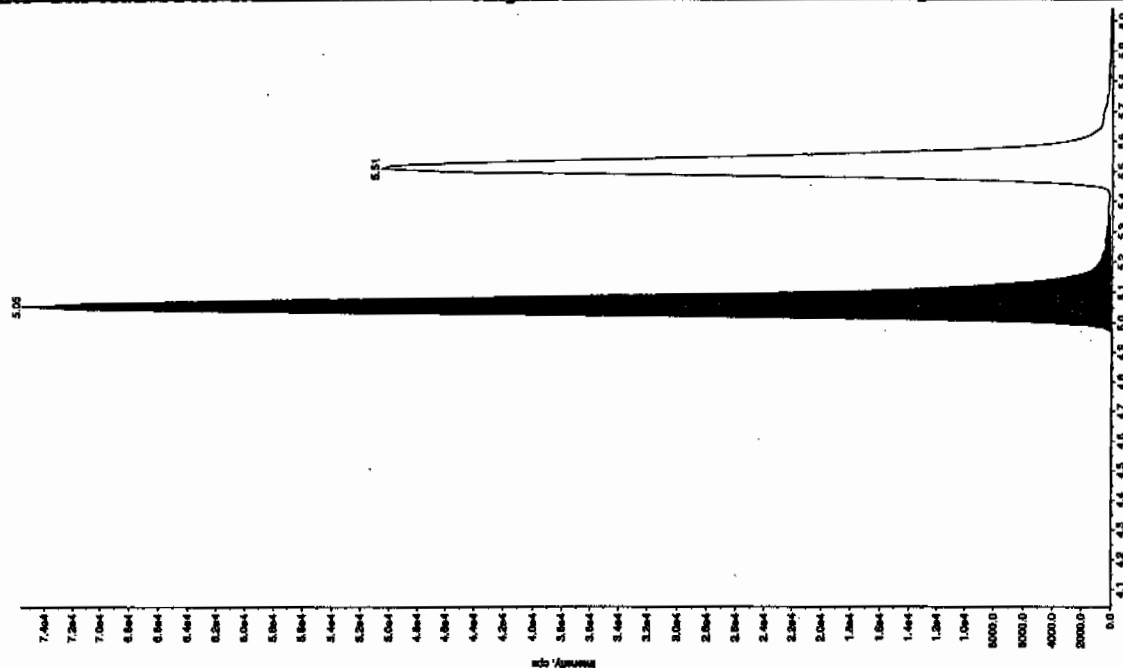
Sample Name: WXX100108-27038 Sample ID: 111ER File: EX501080013.will
 Peak Name: 34-Oxibutolone Mass(es): 162.1/151.9 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 50.0 ng/mL
 Calculated Conc: 51.1 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 5:42:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 1460.00 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.14 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 6.61e+005 counts
 Height: 177922.485 cps
 Start Time: 8.29 min
 End Time: 8.67 min

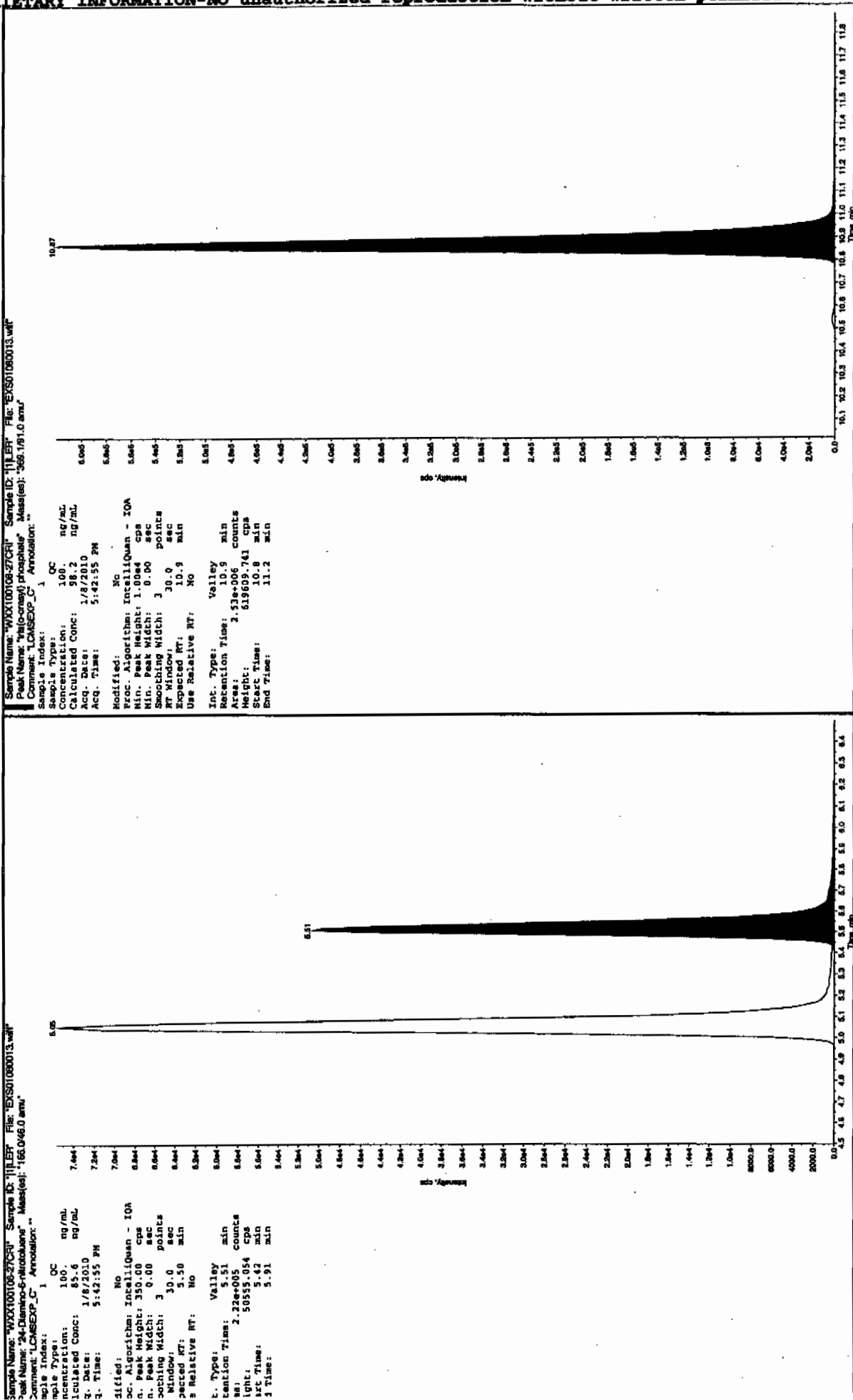


Sample Name: WXX100108-27038 Sample ID: 111ER File: EX501080013.will
 Peak Name: 25-Oxibutolone Mass(es): 166.0/146.0 amu
 Comment: LCMSEXP_C Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 100. ng/mL
 Calculated Conc: 97.5 ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 5:42:35 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 450.00 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.05 min
 Area: 3.25e+005 counts
 Height: 75581.108 cps
 Start Time: 4.95 min
 End Time: 5.35 min



HEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



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): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01080024.wiff

Analysis Date: 08-JAN-10 20:35

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	434	87	
2,6-Diamino-4-nitrotoluene	500	467	93	
3,4-Dinitrotoluene	250	229	92	
3,5-Dinitroaniline	500	471	94	
TATB	500	502	100	
tris(o-cresyl) phosphate	500	457	91	

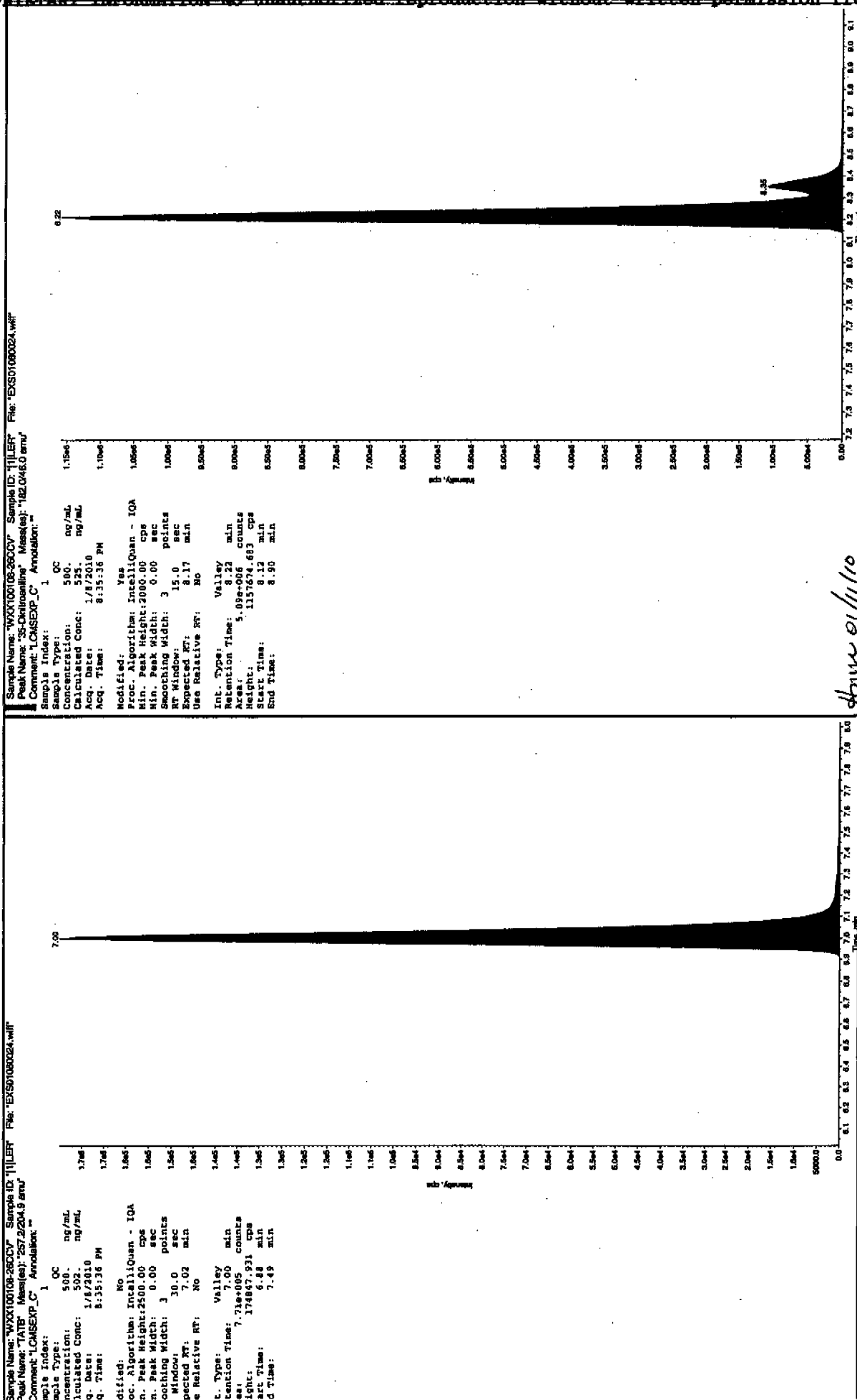
Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits



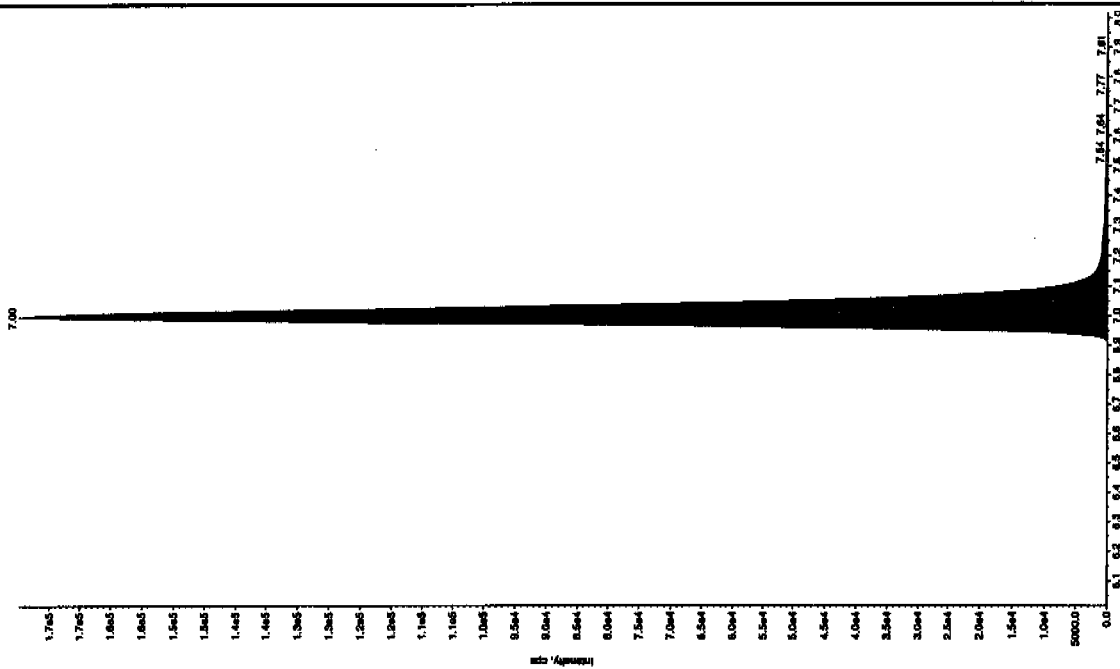
REL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

01/11/10
200802

Sample Name: "WXX100109-2600V" Sample ID: "JULER" File: "EXS01080024.wif"
Peak Name: "TATB" Message: "257.22019 amu"
Comment: "LCMSEXP_C" Annotation: ""

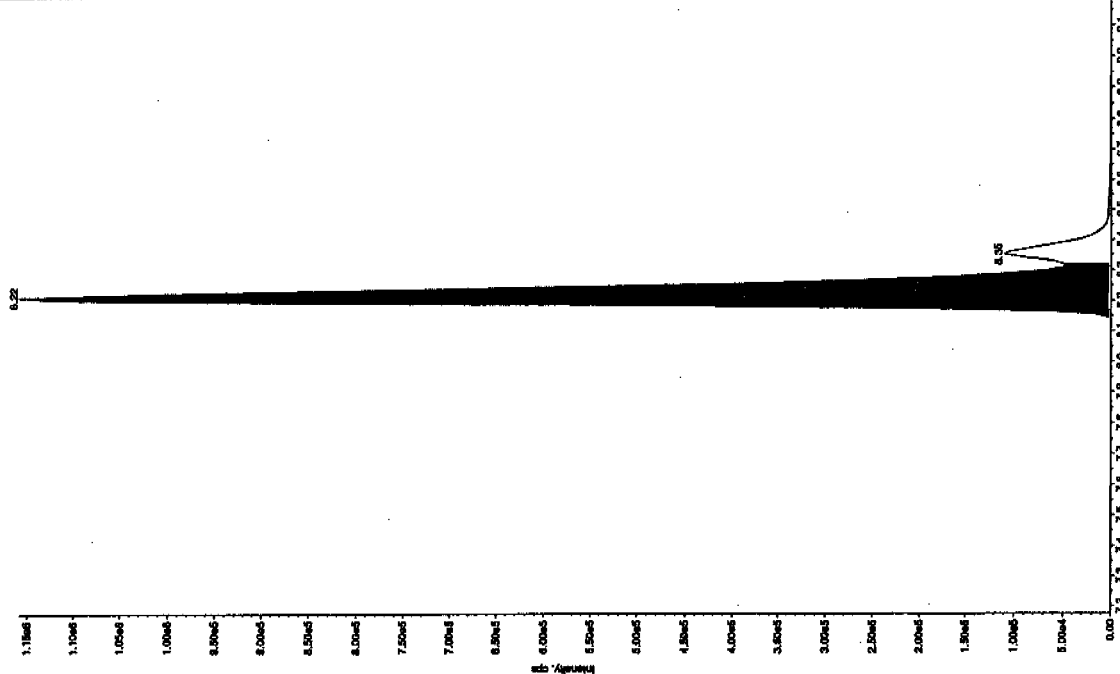
Sample Index: 1 QC
Sample Type: 502. ng/mL
Concentration: 502. ng/mL
Calculated Conc: 1/8/2010
Acq. Date: 8:35:36 PM
Acq. Time: 8:35:36 PM
Modified: No
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.21 min
Area: 4.61e+05 counts
Height: 116095.229 cps
Start Time: 7.14 min
End Time: 9.32 min

Sample Index: 1 QC
Sample Type: 502. ng/mL
Concentration: 502. ng/mL
Calculated Conc: 1/8/2010
Acq. Date: 8:35:36 PM
Acq. Time: 8:35:36 PM
Modified: No
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.21 min
Area: 4.61e+05 counts
Height: 116095.229 cps
Start Time: 7.14 min
End Time: 9.32 min

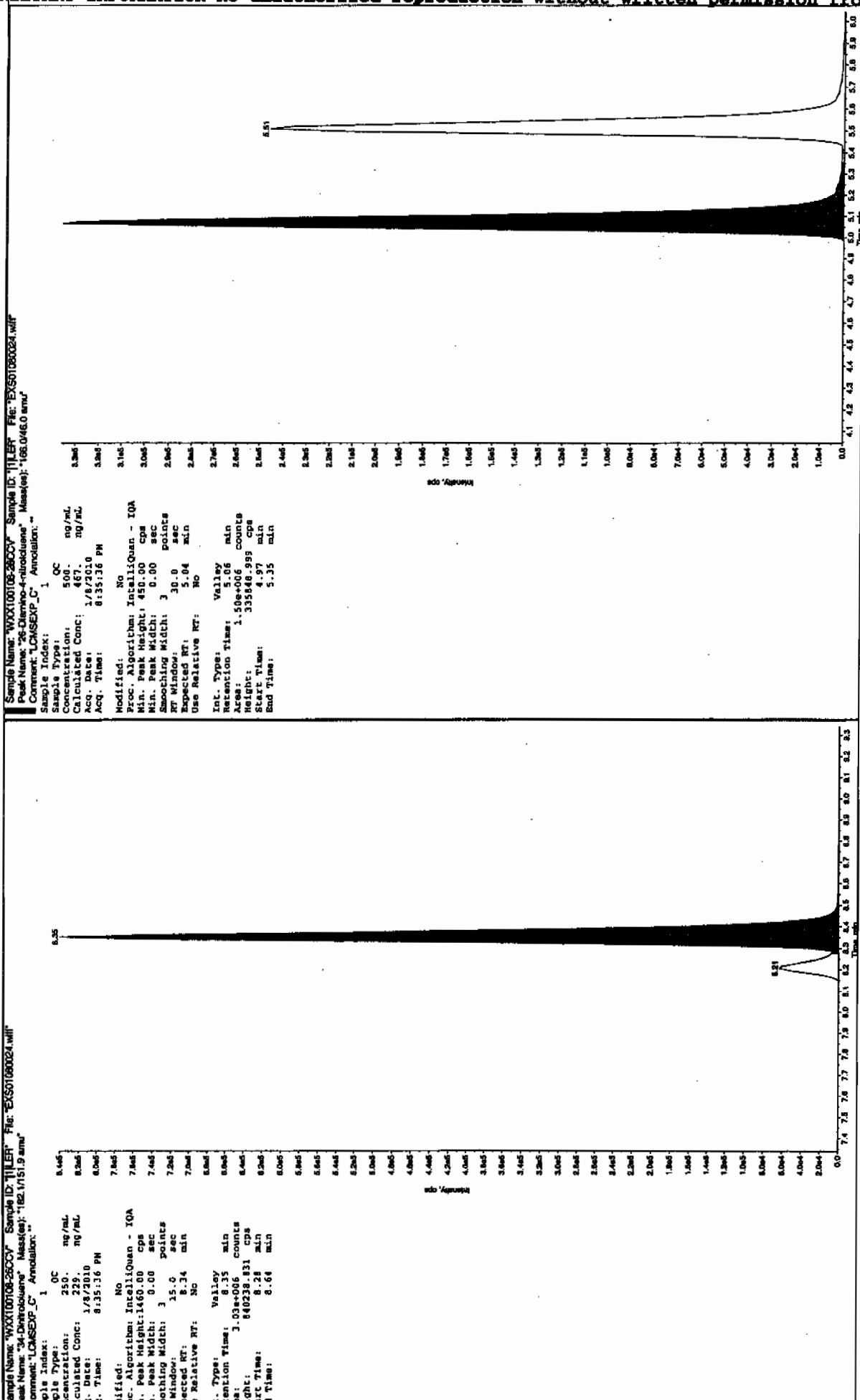


Sample Name: "WXX100109-2600V" Sample ID: "JULER" File: "EXS01080024.wif"
Peak Name: "3a-Dibromanthracene" Message: "182.046.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
Sample Type: 502. ng/mL
Concentration: 502. ng/mL
Calculated Conc: 1/8/2010
Acq. Date: 8:35:36 PM
Acq. Time: 8:35:36 PM
Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.17 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.21 min
Area: 4.61e+05 counts
Height: 116095.229 cps
Start Time: 7.14 min
End Time: 9.32 min



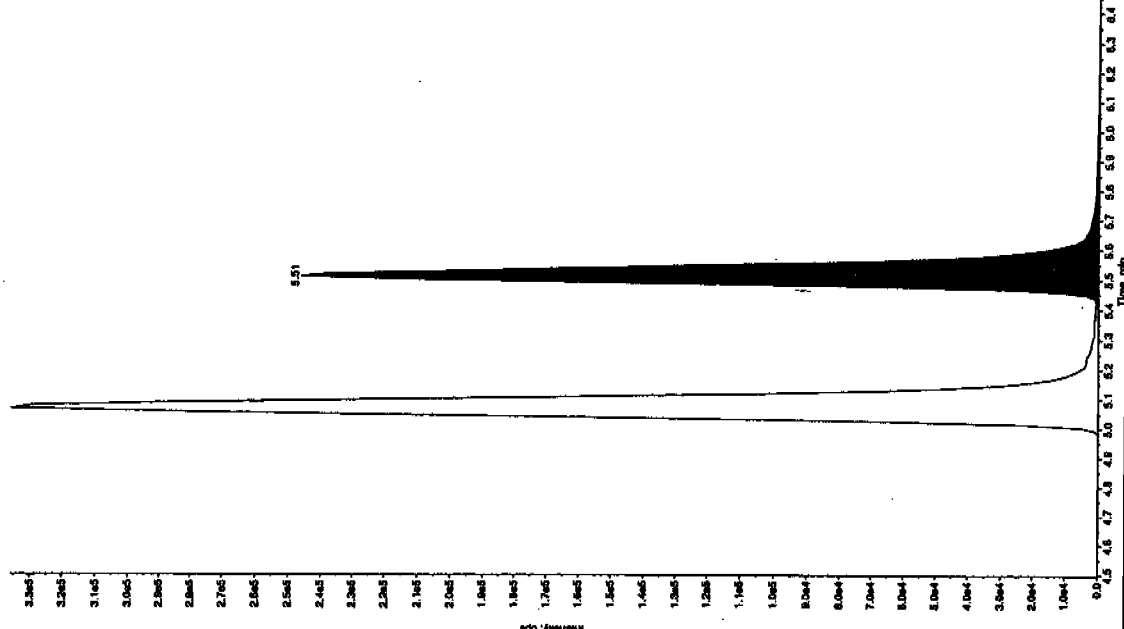
JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-260CV" Sample ID: "JLEF" File: "EXS01080024.wif"
 Peak Name: "24-Diamino-6-nitroindene" Mass(es): "166.046.0 amu"
 Comment: "LCMSXP_C" Annotation: ""

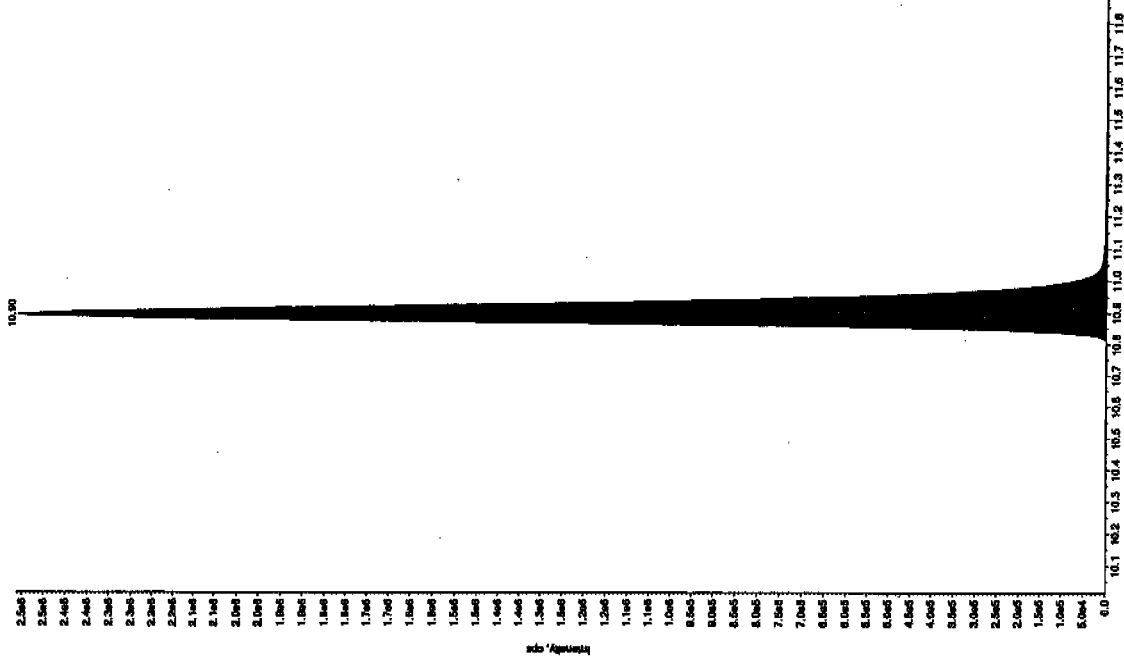
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 434. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:35:36 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 350.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 1.04e+07 counts
 Height: 245821.808 cps
 Start Time: 5.42 min
 End Time: 5.59 min



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-260CV" Sample ID: "JLEF" File: "EXS01080024.wif"
 Peak Name: "Iris(orange) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCMSXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 457. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 8:35:36 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 1.00e+07 cps
 In. 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: 1.07e+08 counts
 Height: 251234.707 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01080026.wiff

Analysis Date: 08-JAN-10 21:06

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	92.8	93	
2,6-Diamino-4-nitrotoluene	100	90.9	91	
3,4-Dinitrotoluene	50	50.4	101	
3,5-Dinitroaniline	100	96.4	96	
TATB	100	109	109	
tris(o-cresyl) phosphate	100	107	107	

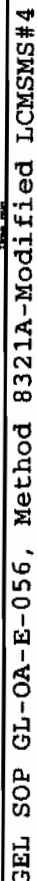
Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

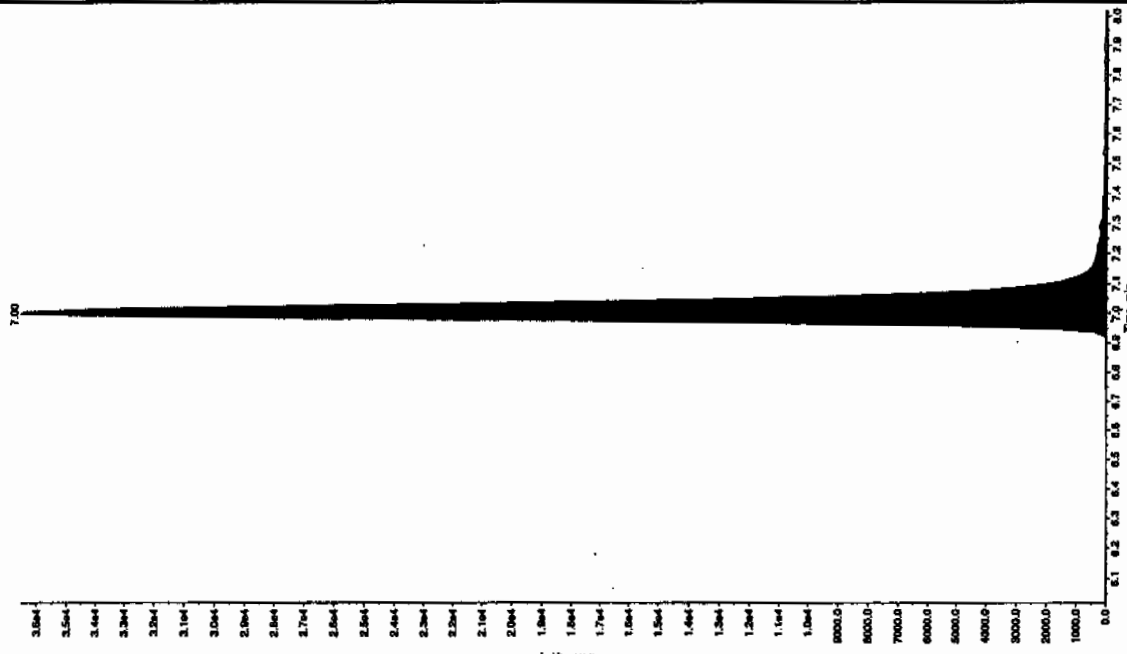
* Value outside of Recovery Limits



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2020

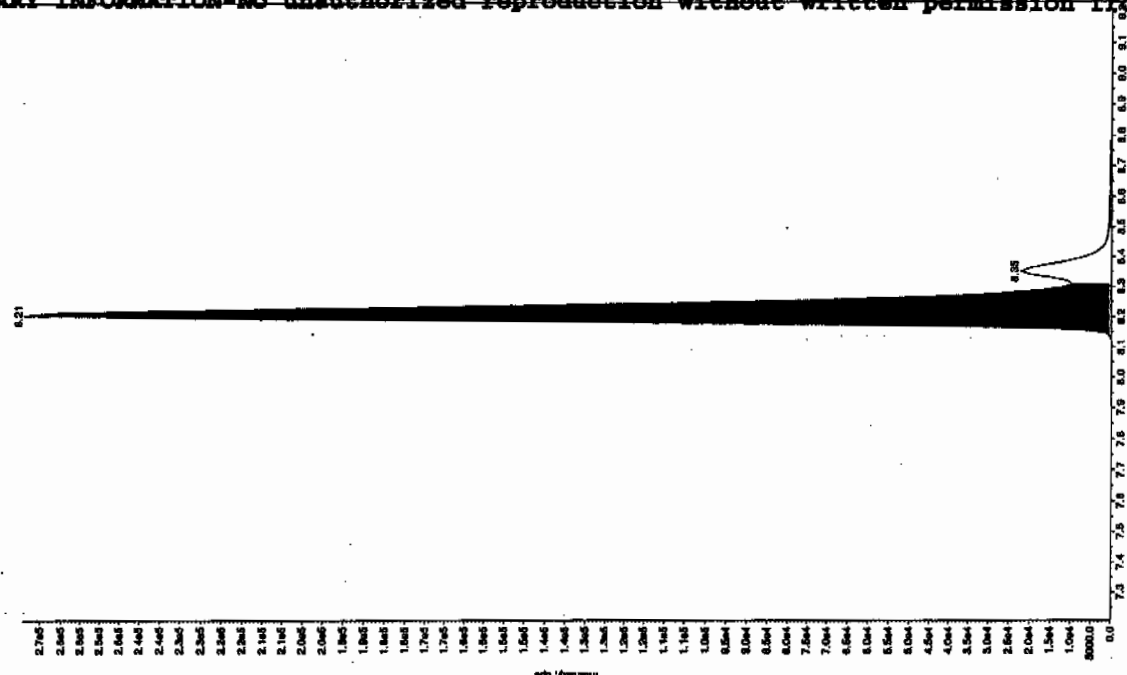
Sample Name: "WXX100108-27CR" Sample ID: "111111" File: "EX501080026.wif"
Peak Name: "TATE" Mass(es): "257.20204.9 amu"
Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 109. ng/mL
Acq. Date: 1/8/2010
Acq. Time: 9:06:59 PM
Modified: No
QC Algorithm: IntelliScan - IOA
In. Peak Height: 2500.00 cps
In. Peak Width: 0.00 sec
P. Width: 330.0 points
P. Width: 30.0 sec
Expected RT: 7.02 min
RT Type: Valley
Retention Time: 7.00 min
Area: 1.65e+005 counts
Height: 36506.985 cps
Start Time: 6.88 min
End Time: 7.50 min

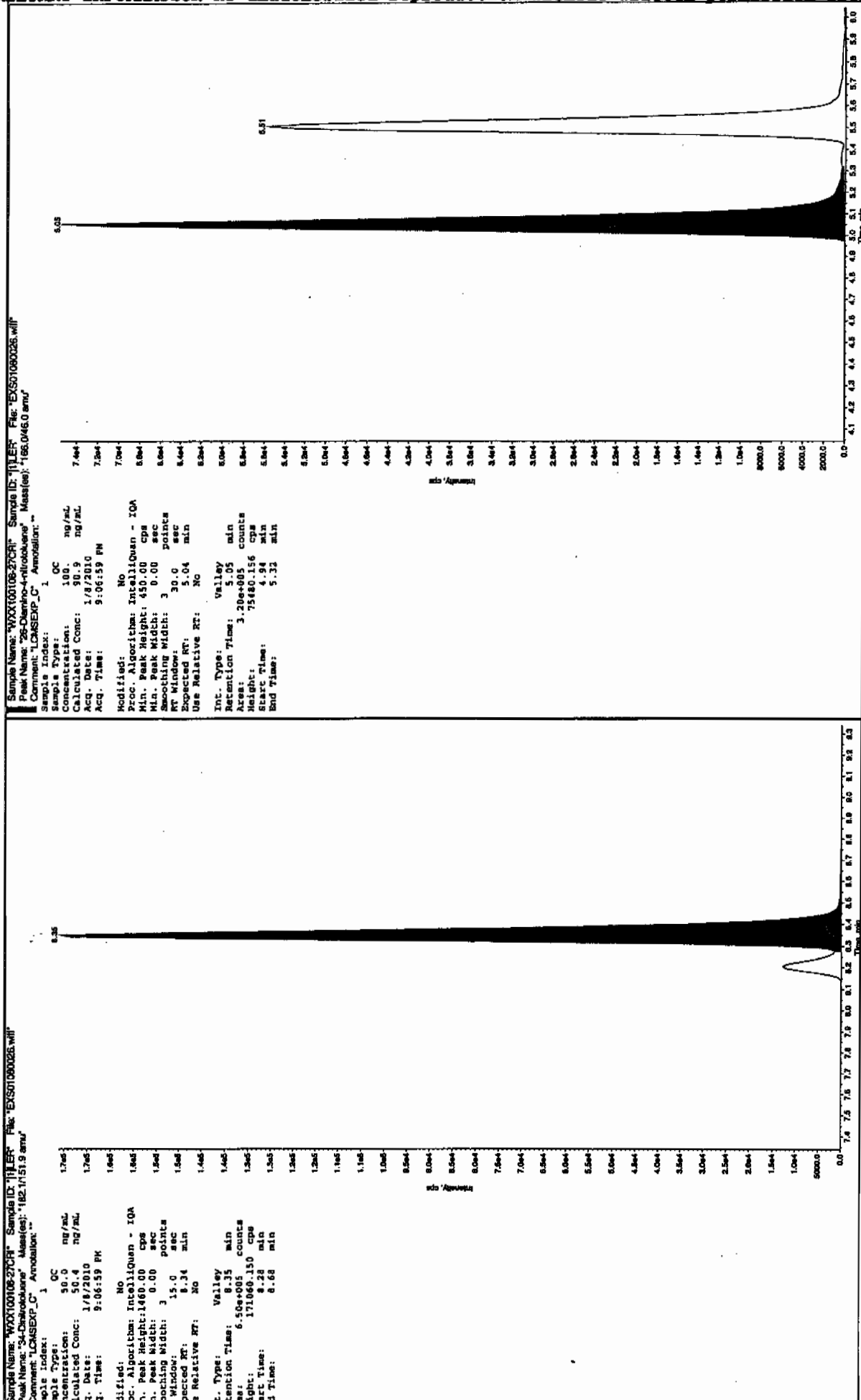


Sample Name: "WXX100108-27CR" Sample ID: "111111" File: "EX501080026.wif"
Peak Name: "35-Dinitrobenz" Mass(es): "182.046.0 amu"
Comment: "LCMSEXP_C" Annotation: ""

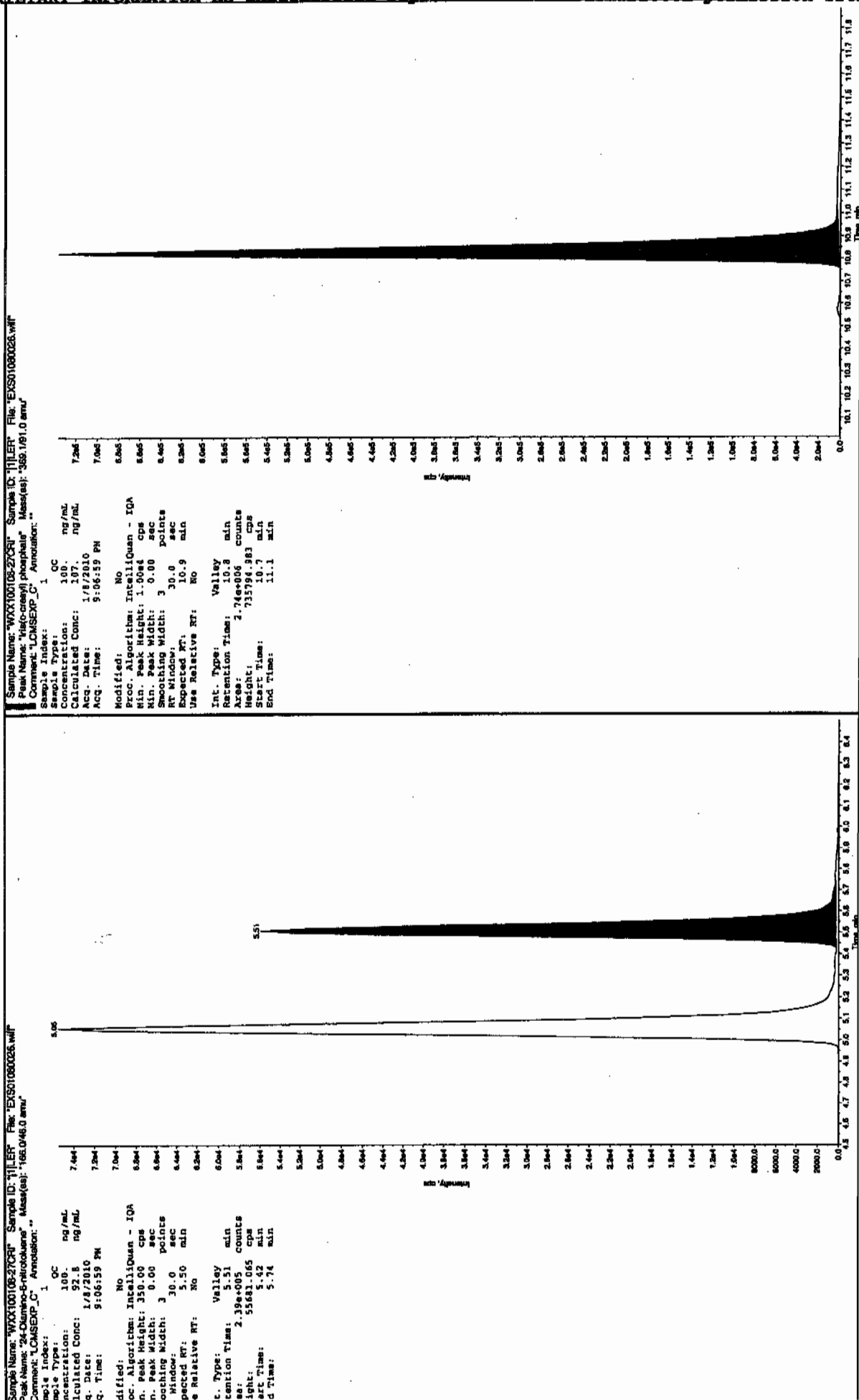
Sample Index: 1
Sample Type: QC
Concentration: 100. ng/mL
Calculated Conc: 96.4 ng/mL
Acq. Date: 1/8/2010
Acq. Time: 9:06:59 PM
Modified: Yes
QC Algorithm: IntelliScan - IOA
In. Peak Height: 2500.00 cps
In. Peak Width: 0.00 sec
P. Width: 330.0 points
P. Width: 30.0 sec
Expected RT: 8.21 min
RT Type: Manual
Retention Time: 8.21 min
Area: 1.03e+006 counts
Height: 271746.630 cps
Start Time: 8.13 min
End Time: 8.31 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSSMS#4



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



DEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01080037.wiff

Analysis Date: 08-JAN-10 23:59

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	482	96	
3,4-Dinitrotoluene	250	220	88	
3,5-Dinitroaniline	500	463	93	
TATB	500	505	101	
tris(o-cresyl) phosphate	500	485	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

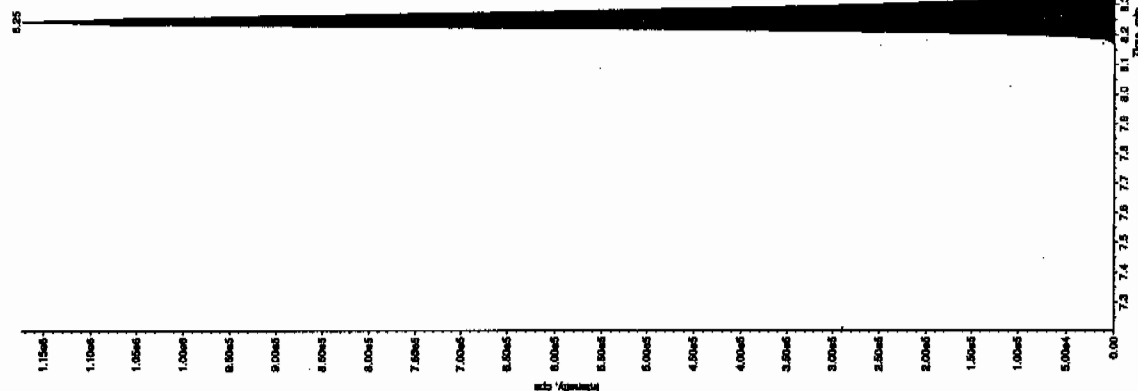
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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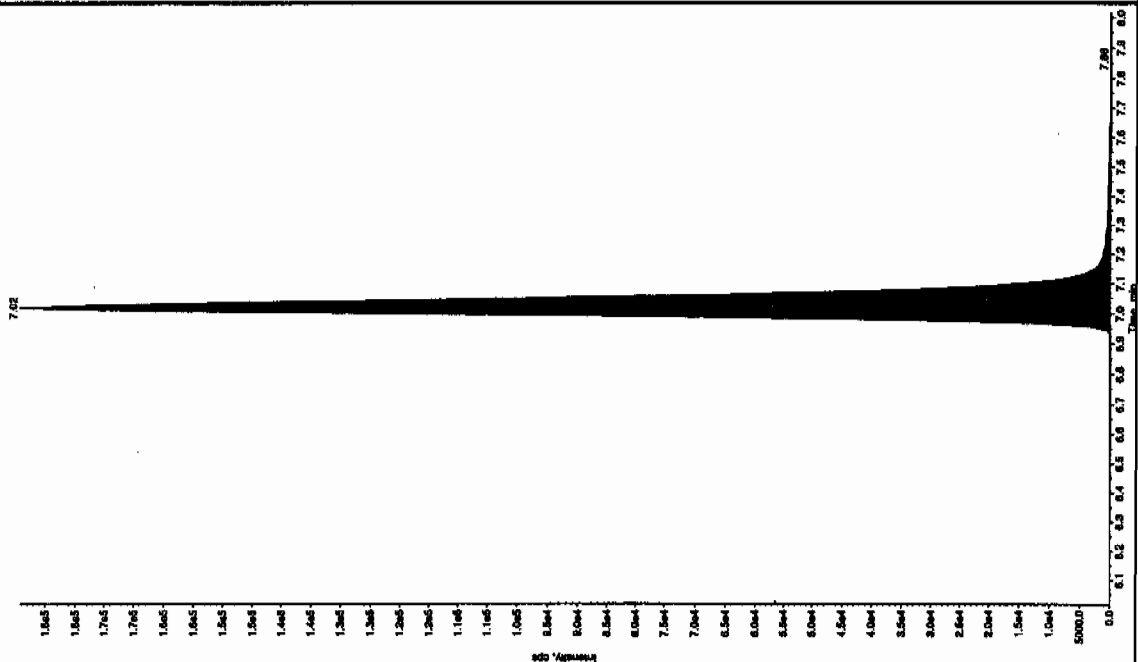
Sample Name: "WXX100108-26CCV" Sample ID: "HILF" File: "EX501080037.wif"
 Peak Name: "35-Dihydroquinoline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 453. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.25 min
 Area: 4.53e+006 counts
 Height: 1174192.139 cps
 Start Time: 8.14 min
 End Time: 8.34 min



Sample Name: "WXX100108-26CCV" Sample ID: "HILF" File: "EX501080037.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

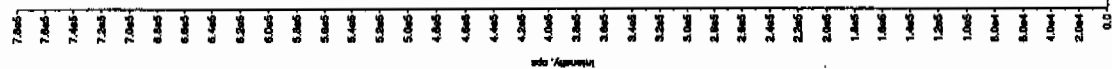
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 505. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.02 min
 Area: 7.77e+005 counts
 Height: 184352.707 cps
 Start Time: 6.86 min
 End Time: 7.17 min



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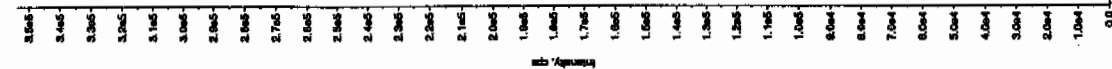
Sample Name: "WXX100105-2600V" Sample ID: "11LRF" File: "EXS01080037.mlf"
 Peak Name: "34-Dihydrokane" Mass(es): "182.1151.9 amu"
 Comment: "LCMS-EXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 250. ng/mL
 Calculated Conc: 220. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Specified RT: 8.34 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 8.34 min
 Area: 2.91e+006 counts
 Height: 779782.104 cps
 Start Time: 8.31 min
 End Time: 8.68 min



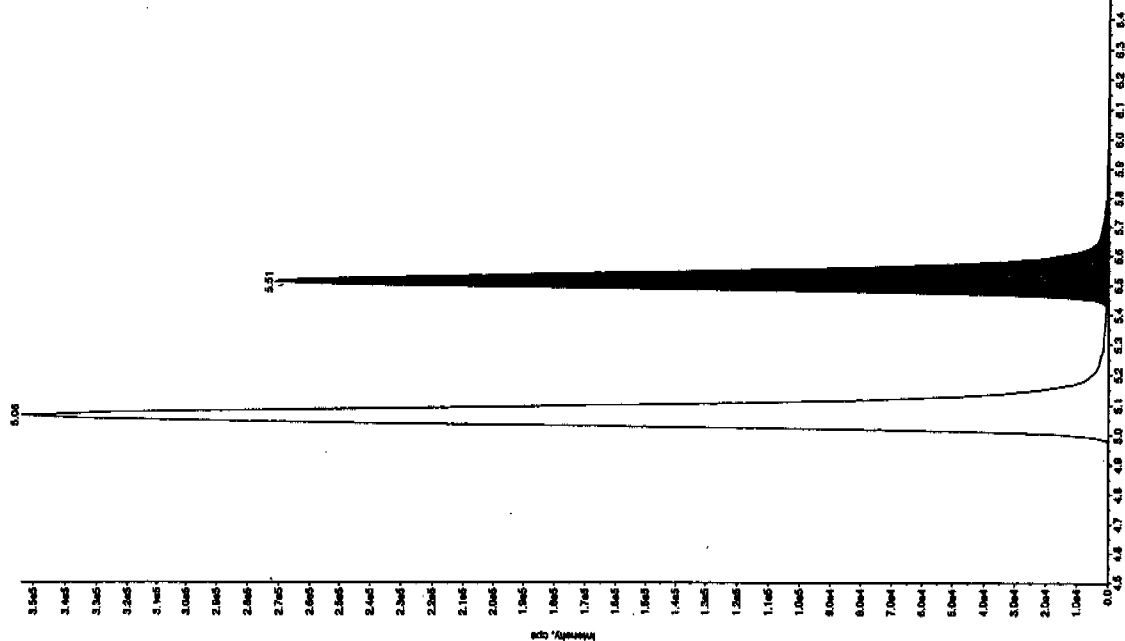
Sample Name: "WXX100105-2600V" Sample ID: "11LRF" File: "EXS01080037.mlf"
 Peak Name: "26-Diamino-4-pyridine" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1
 Concentration: 500. ng/mL
 Calculated Conc: 482. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Specified RT: 5.04 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 5.06 min
 Area: 1.54e+006 counts
 Height: 353821.106 cps
 Start Time: 4.96 min
 End Time: 5.35 min



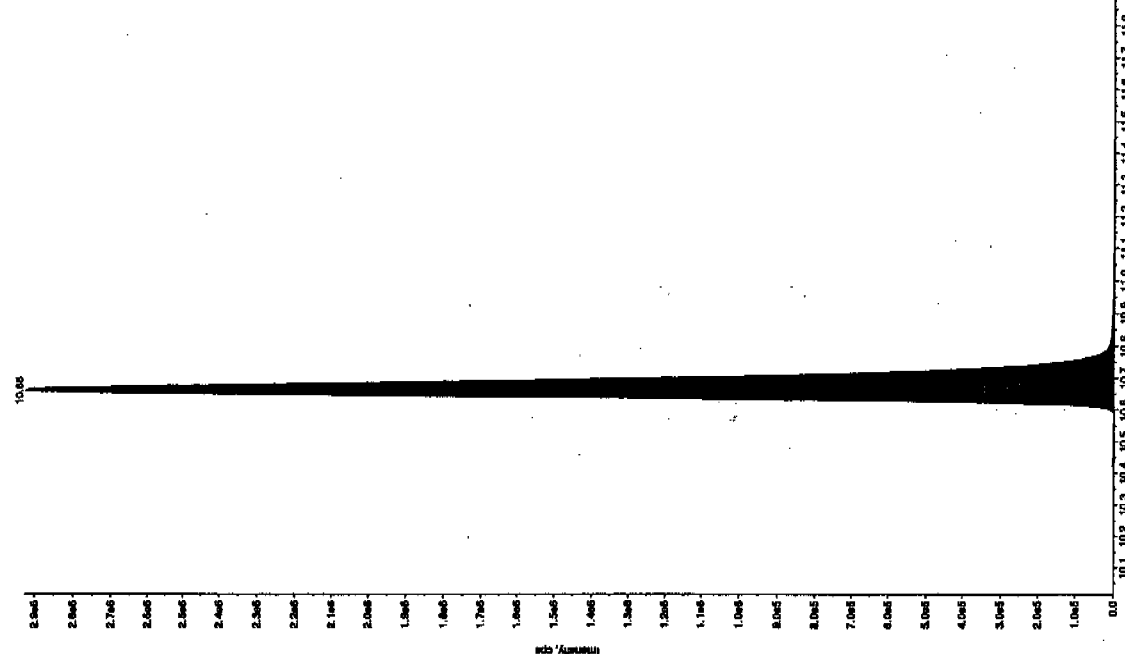
Sample Name: "WXX100108-3600" Sample ID: "H1LER" File: "EXSD1080037.wif"
 Peak Name: "2A-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 484. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 350.00 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 1.16e+006 counts
 Height: 271257.019 cps
 Start Time: 5.42 min
 End Time: 5.59 min



Sample Name: "WXX100108-2600" Sample ID: "H1LER" File: "EXSD1080037.wif"
 Peak Name: "2A-Diamino-5-nitrotoluene" Mass(es): "388.161.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 485. ng/mL
 Acq. Date: 1/8/2010
 Acq. Time: 11:59:46 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 n. Peak Height: 1.00e4 cps
 n. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.13e+007 counts
 Height: 2956215.820 cps
 Start Time: 10.6 min
 End Time: 11.0 min



JEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01080039.wiff

Analysis Date: 09-JAN-10 00:31

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	91.9	92	
2,6-Diamino-4-nitrotoluene	100	95.5	96	
3,4-Dinitrotoluene	50	46.9	94	
3,5-Dinitroaniline	100	94.9	95	
TATB	100	110	110	
tris(o-cresyl) phosphate	100	107	107	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

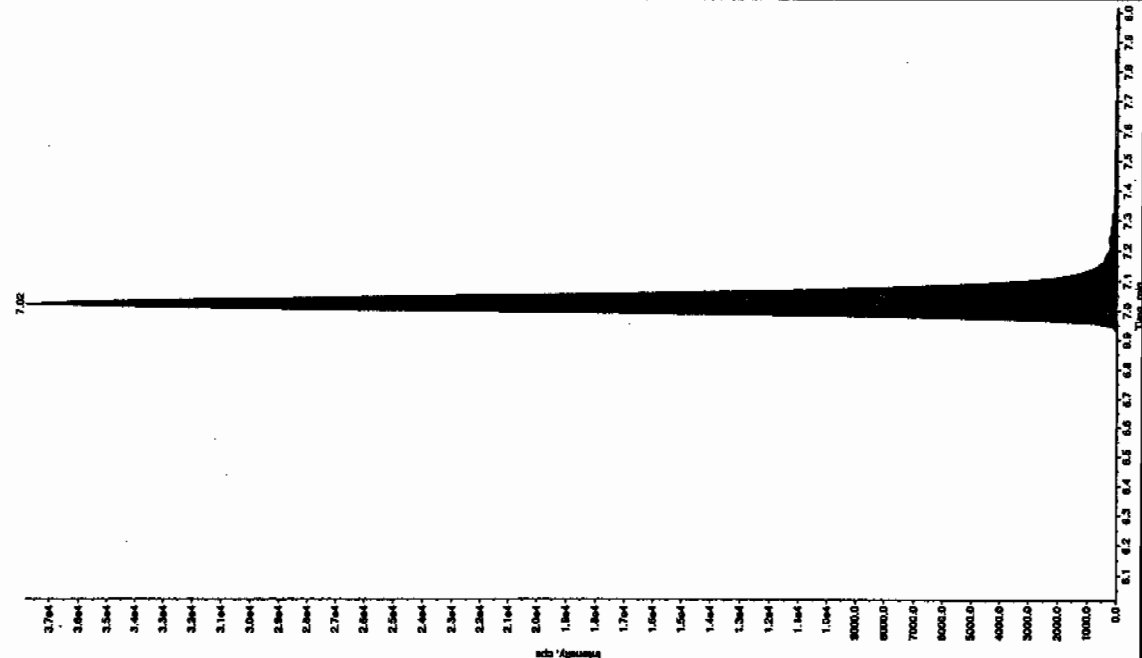
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Sample Name: "WXX10108-270R" Sample ID: "11ER" File: "EXS01080038.wif"
 Peak Name: "TATE" Mass(es): 257.204.9 amu
 Comment: "LCMSXP_C" Annotation: "

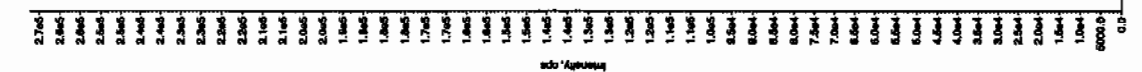
Sample Index: 1
 Sample Type: 100
 Concentration: 100 ng/mL
 Calculated Conc: 100 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 2500.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Y Window: 30.0 sec
 Expected RT: 7.02 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 7.02 min
 Peak Height: 1.56e+005 counts
 Weight: 37794.441 cps
 Start Time: 6.92 min
 End Time: 7.52 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

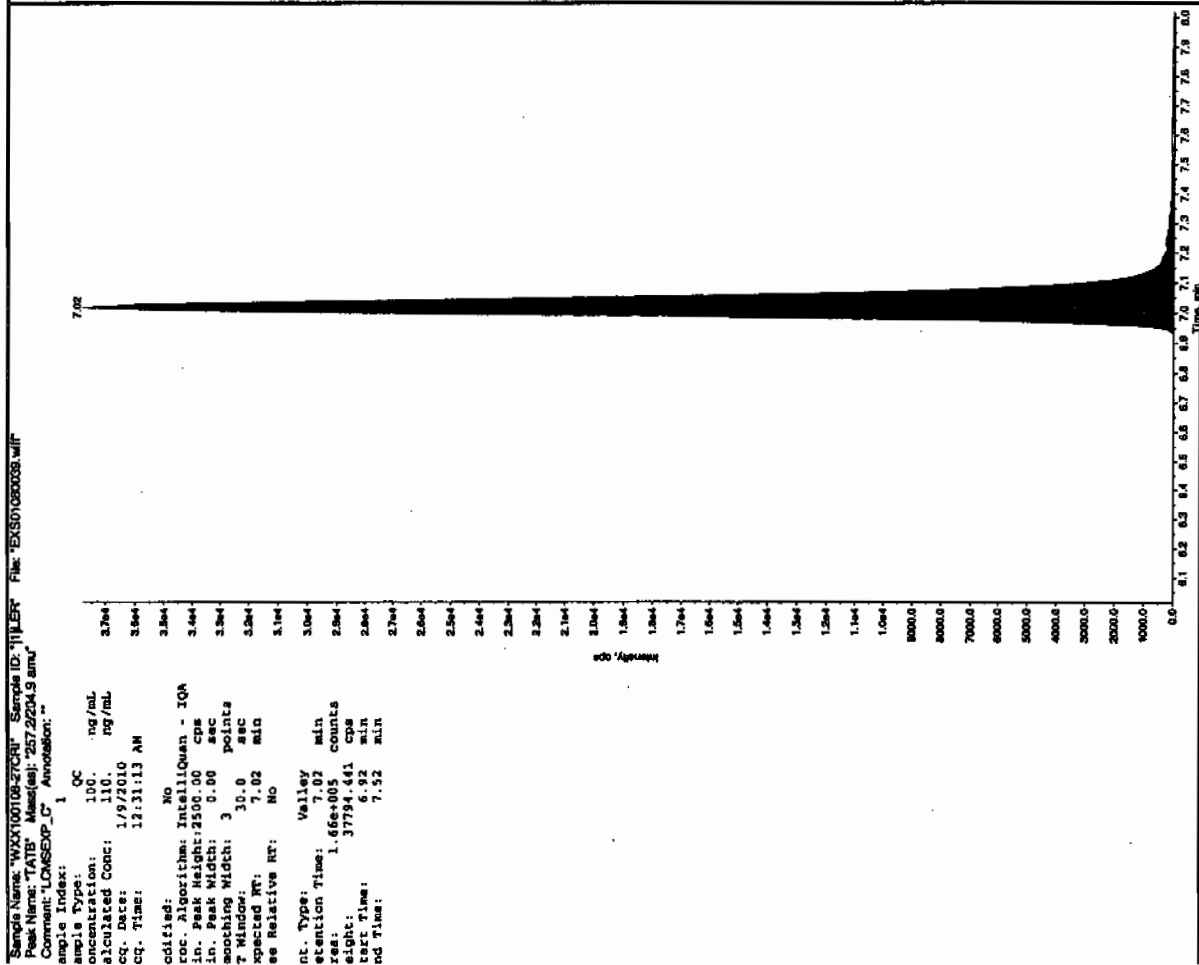
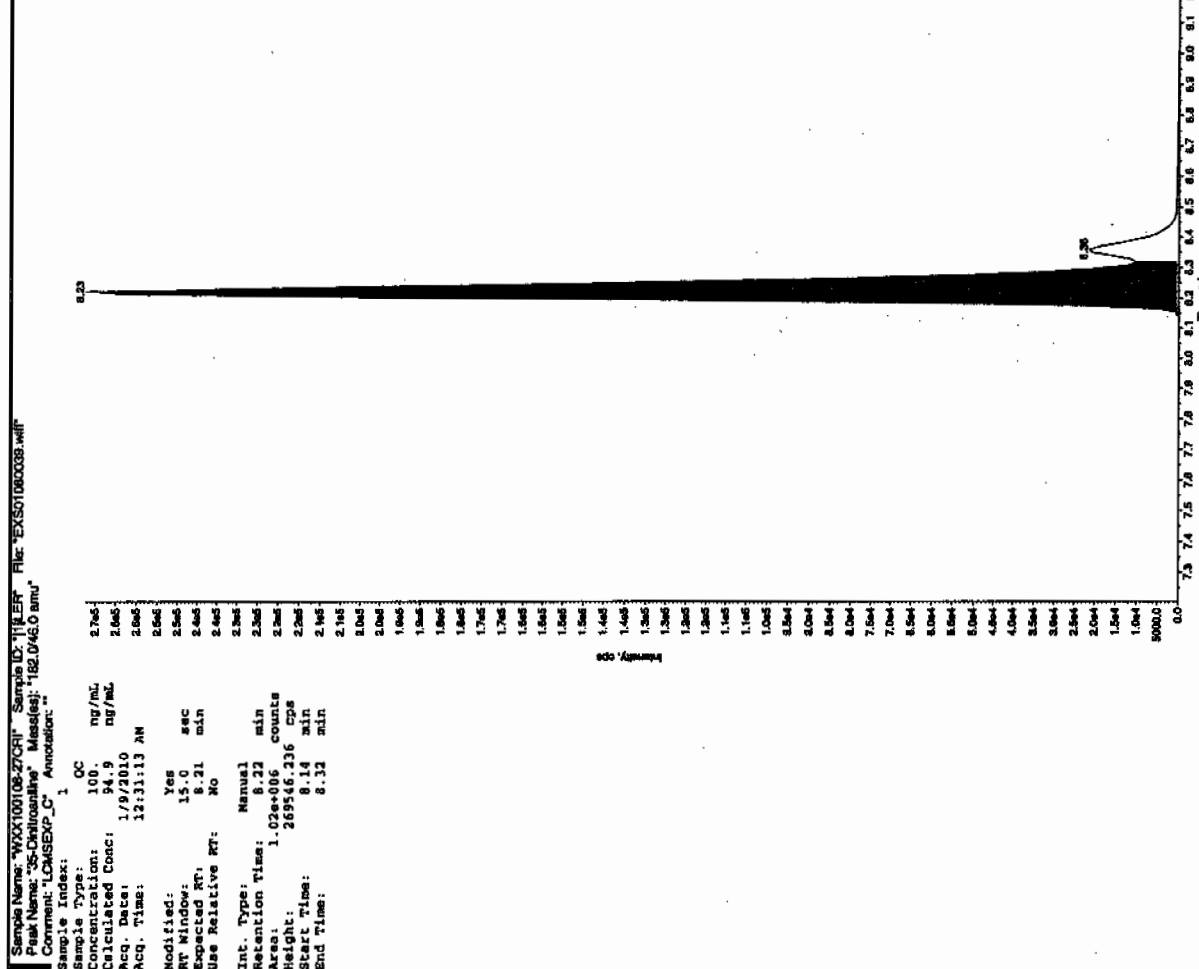
Sample Name: "WXX10108-270R" Sample ID: "11ER" File: "EXS01080038.wif"
 Peak Name: "36-Dimethylsilane" Mass(es): 182.046.0 amu
 Comment: "LCMSXP_C" Annotation: "

Sample Index: 1
 Sample Type: 100
 Concentration: 100 ng/mL
 Calculated Conc: 100 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 2000.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Y Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 RT Type: Valley
 Retention Time: 8.21 min
 Peak Height: 1.11e+005 counts
 Weight: 25719.064 cps
 Start Time: 8.12 min
 End Time: 8.57 min



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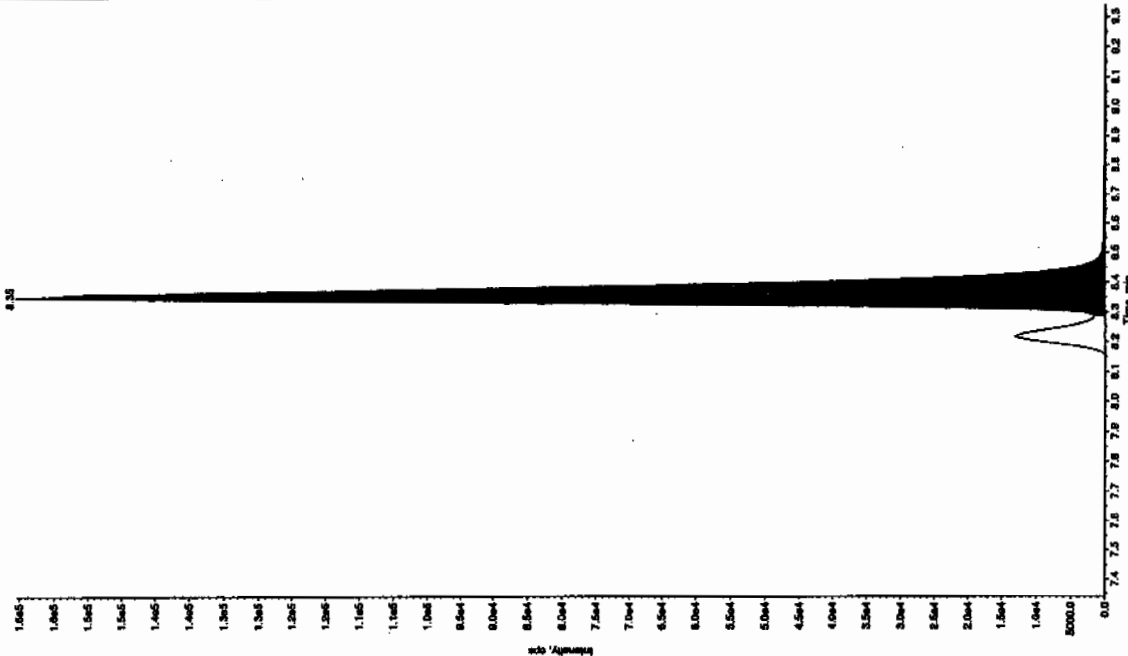
01/11/10
2020/01/11



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

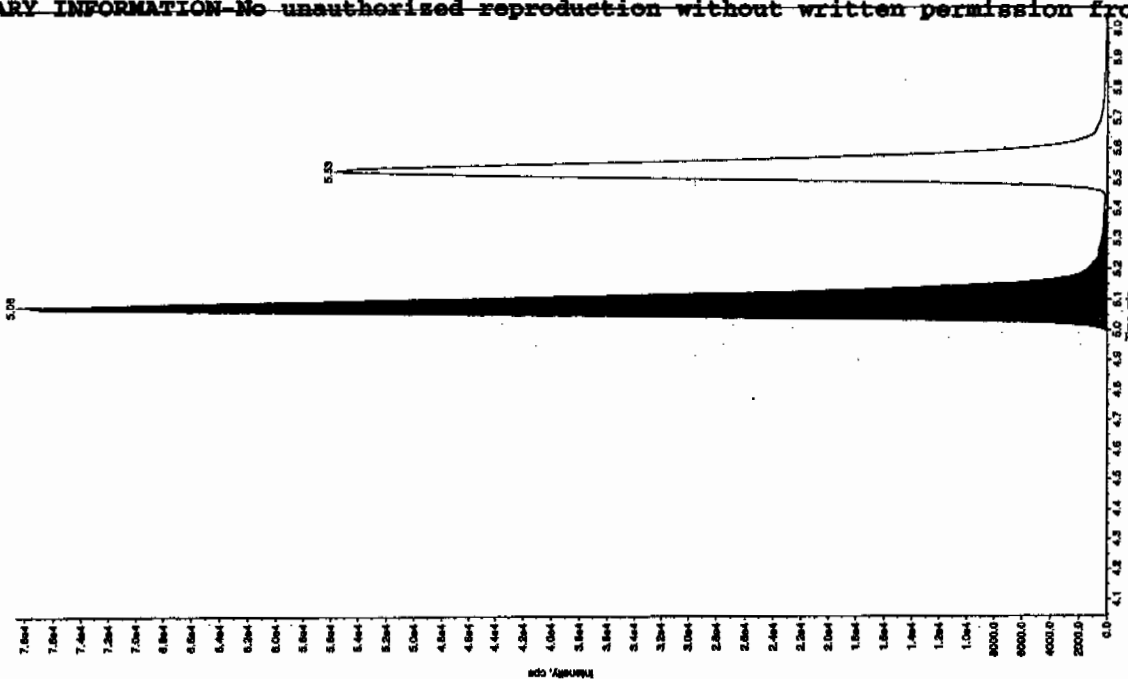
Sample Name: WXX100108-27C91 Sample ID: 111577 File: EX501080039.wiff
 Peak Name: 34-Dinitrotoluene Mass(es): 182.1/151.9 amu
 Comment: 1CHSEXP_C Annotation: -

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 46.9 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 1460.00 cps
 In. Peak Width: 3.00 points
 FWHM Width: 15.0 points
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 6.03e+005 counts
 Height: 160310.532 cps
 Start Time: 8.29 min
 End Time: 8.64 min



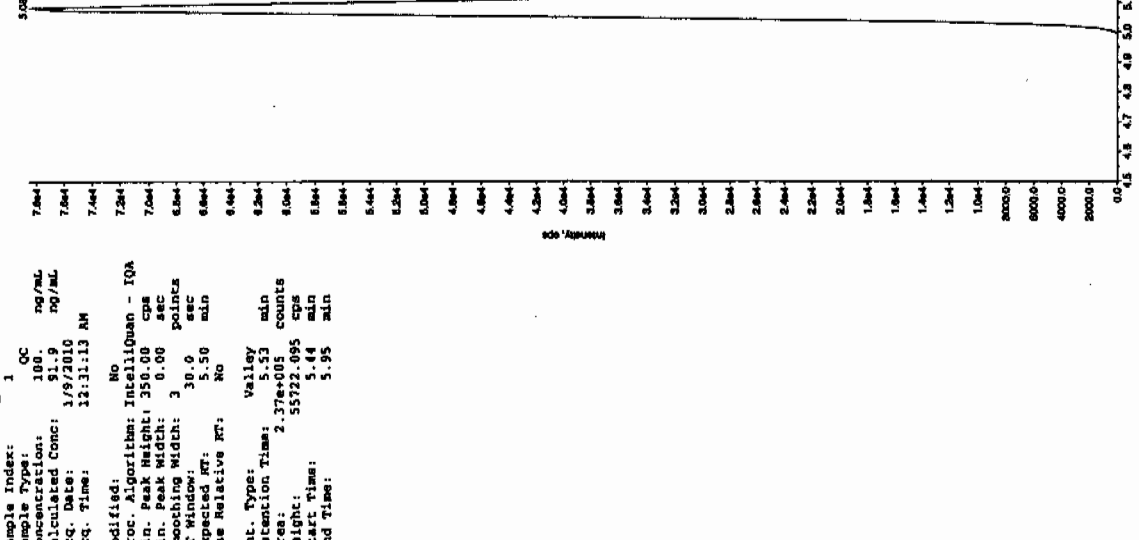
Sample Name: WXX100108-27C91 Sample ID: 111577 File: EX501080039.wiff
 Peak Name: 28-Diamino-4-nitrotoluene Mass(es): 166.0/48.0 amu
 Comment: 1CHSEXP_C Annotation: -

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 95.5 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 In. Peak Height: 490.00 cps
 In. Peak Width: 3.00 points
 FWHM Width: 30.0 points
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.08 min
 Area: 3.34e+005 counts
 Height: 78545.784 cps
 Start Time: 4.98 min
 End Time: 5.37 min



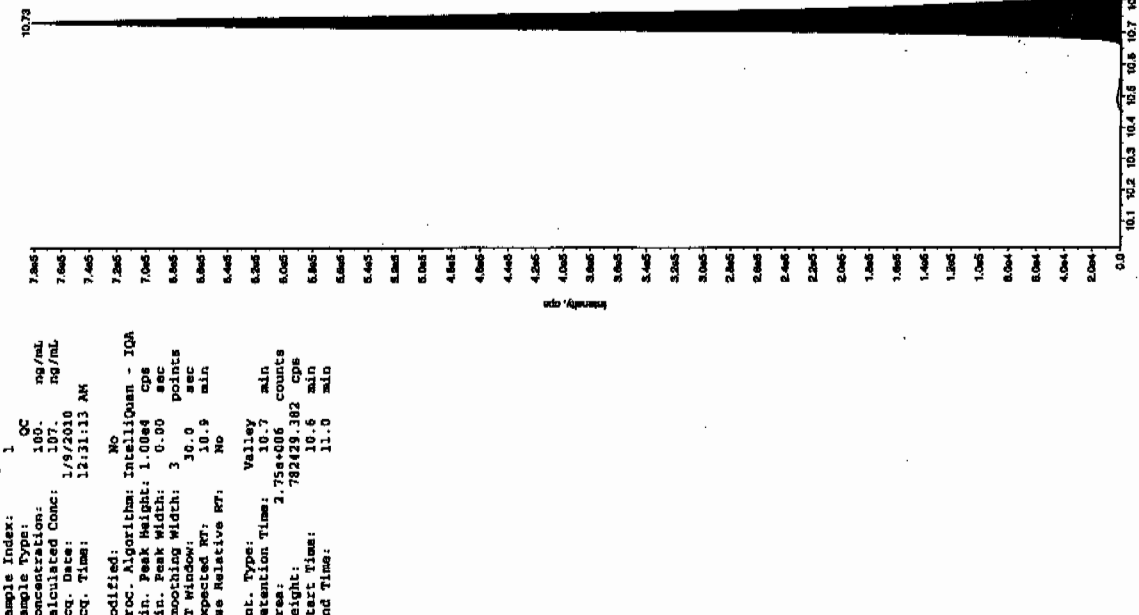
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-270R" Sample ID: "HLEP" File: "EX501080038.wif"
 Peak Name: "24-Diamino-6-nitrocoucine" Mass(es): 163.048.0 amu
 Comment: "LCMS/EXP_C" Annotation: "



Sample Index: 1
 Sample Name: WXX100108-270R
 Concentration: 100 ng/mL
 Calculated Conc: 91.9 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 250.00 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 T Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.09 min
 Area: 2.37e+003 counts
 Height: 55722.895 cps
 Start Time: 5.44 min
 End Time: 5.95 min

Sample Name: "WXX100108-270R" Sample ID: "HLEP" File: "EX501080038.wif"
 Peak Name: "1080-dmepA" prophase Mass(es): 389.181.0 amu
 Comment: "LCMS/EXP_C" Annotation: "



Sample Index: 1
 Sample Name: WXX100108-270R
 Concentration: 100 ng/mL
 Calculated Conc: 107. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 12:31:13 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 In. Peak Height: 1.00e4 cps
 In. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 T Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 2.75e+006 counts
 Height: 782429.382 cps
 Start Time: 10.6 min
 End Time: 11.0 min

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS01080047.wiff

Analysis Date: 09-JAN-10 02:36

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	402	81	
2,6-Diamino-4-nitrotoluene	500	427	85	
3,4-Dinitrotoluene	250	206	83	
3,5-Dinitroaniline	500	435	87	
TATB	500	465	93	
tris(o-cresyl) phosphate	500	507	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%

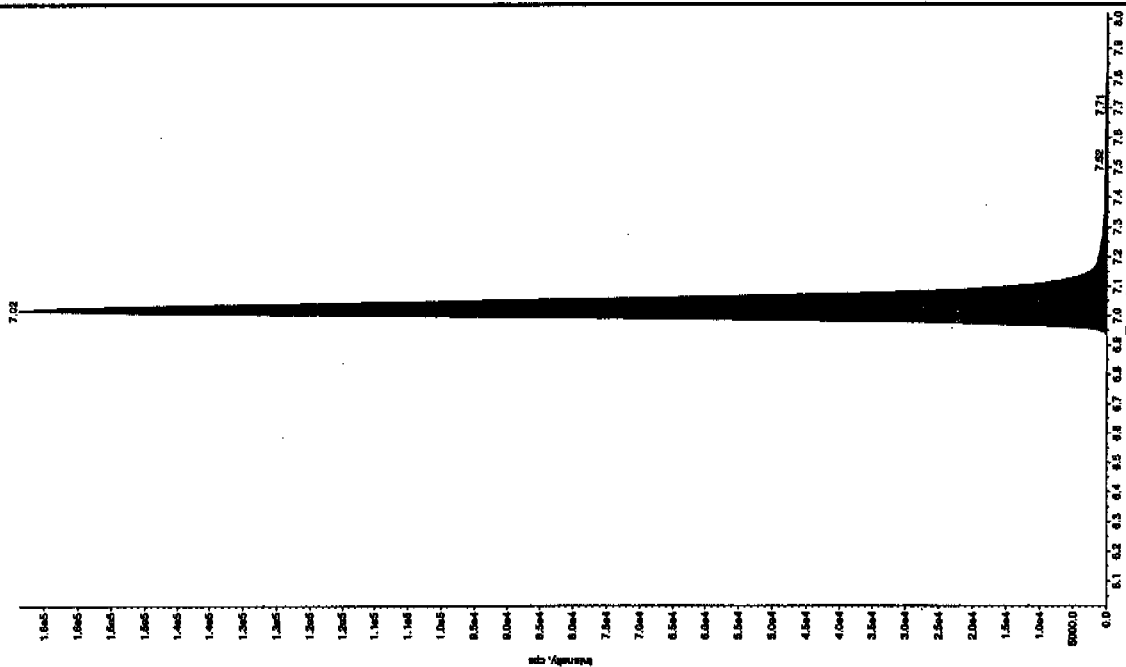
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

2009
11/11/10

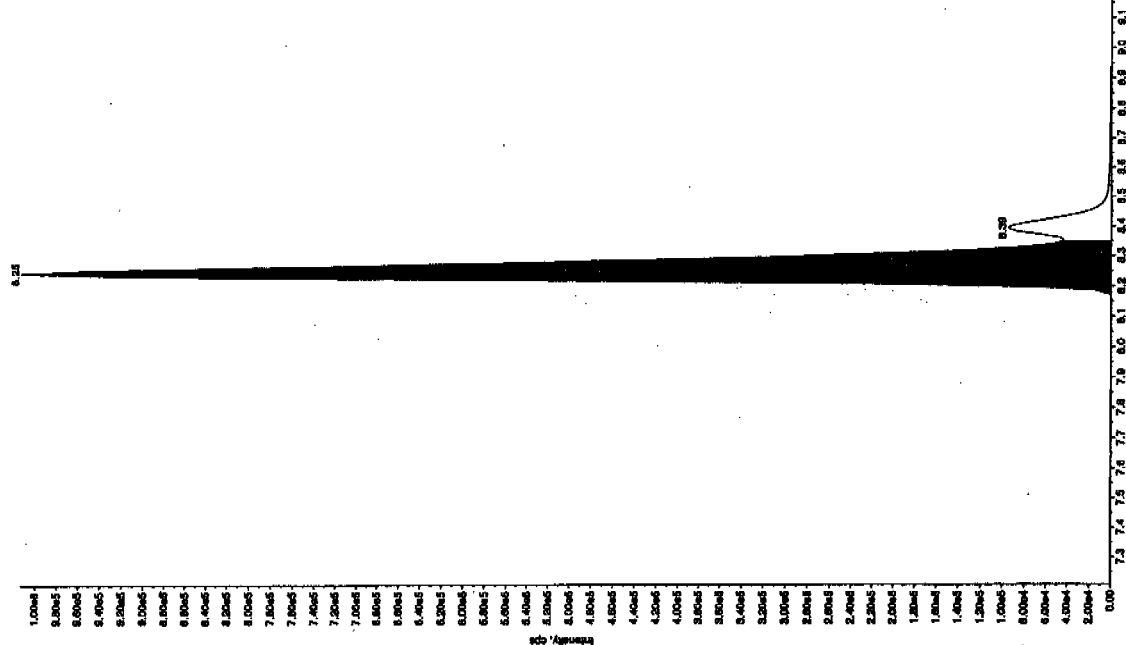
Sample Name: "WXX100108-2500V" Sample ID: "11111" File: "EX501080047.wif"
Peak Name: "TATB" Mass(es): "257.2004.9 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 465. ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:36:52 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
In. Peak Height: 2300.00 cps
Min. Peak Width: 3.00 points
Smoothing Width: 30.0 sec
Expected RT: 7.02 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.02 min
Area: 7.15e+005 counts
Height: 163916.550 cps
Start Time: 6.90 min
End Time: 7.63 min



Sample Name: "WXX100108-2500V" Sample ID: "11111" File: "EX501080047.wif"
Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"
Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
Sample Type: 500. ng/mL
Concentration: 435. ng/mL
Acq. Date: 1/9/2010
Acq. Time: 2:36:52 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
In. Peak Height: 4000.00 cps
Min. Peak Width: 3.00 points
Smoothing Width: 30.0 sec
Expected RT: 8.21 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.25 min
Area: 4.28e+006 counts
Height: 1014043.640 cps
Start Time: 8.14 min
End Time: 8.35 min

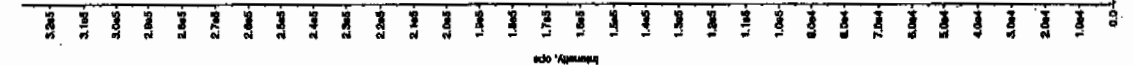


11/11/10

Sample Name: "WXX100108-2800" Sample ID: "JULY" File: "EXS01080047.wif"
 Peak Name: "28-Chloro-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSDEP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 500. ng/mL
 Concentration: 427. ng/mL
 Calculated Conc: 427. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:36:52 AM

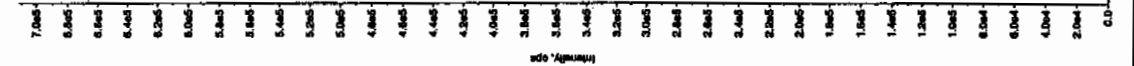
Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.08 min
 Mass: 1.37e+06 counts
 Height: 1.37e+06 cps
 Start Time: 4.98 min
 End Time: 5.17 min



Sample Name: "WXX100108-2800" Sample ID: "JULY" File: "EXS01080047.wif"
 Peak Name: "34-Chlorobenzene" Mass(es): "162.1751.9 amu"
 Comment: "LCMSDEP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 250. ng/mL
 Concentration: 206. ng/mL
 Calculated Conc: 206. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:36:52 AM

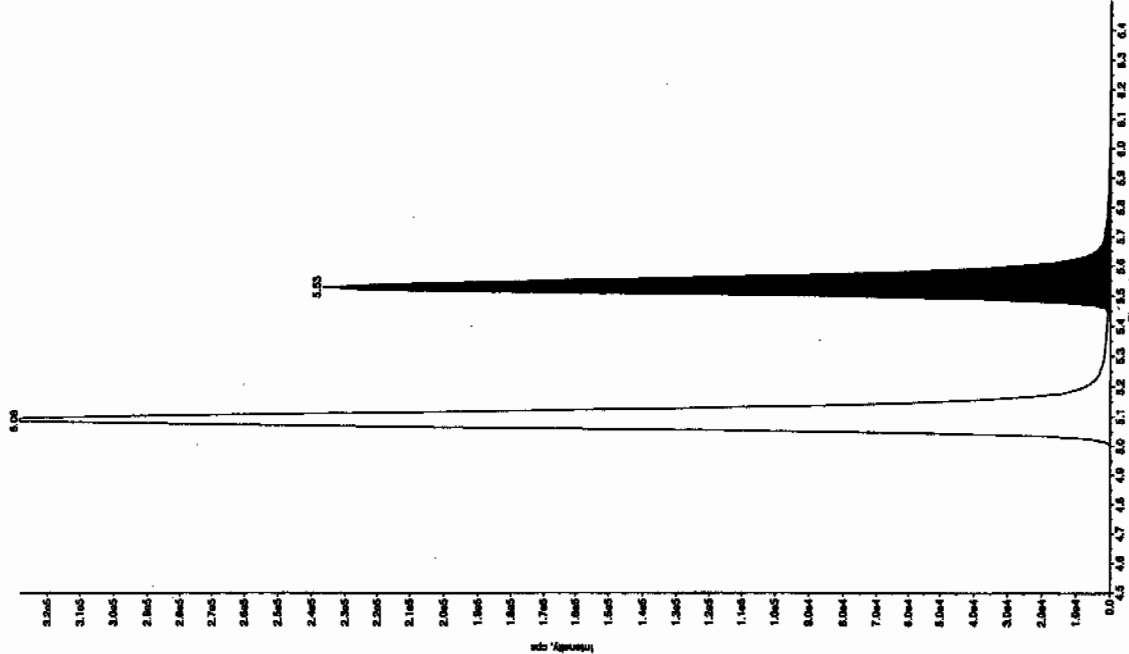
Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.39 min
 Mass: 2.74e+06 counts
 Height: 711140.991 cps
 Start Time: 8.32 min
 End Time: 8.70 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-260CV" Sample ID: "111ER" File: "EX501080047.wit"
 Peak Name: "24-Diamino-6-nitrovaline" Mass(es): "166.046.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

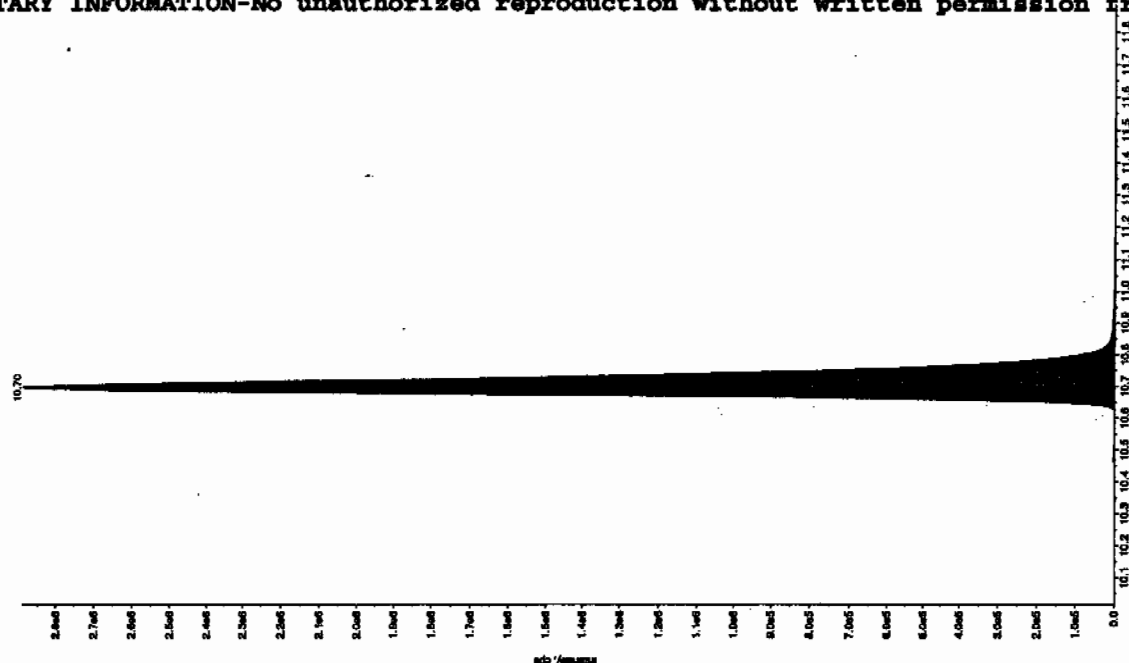
Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 402. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:36:52 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.53 min
 Area: 9.71e+005 counts
 Height: 216447.174 cps
 Start Time: 5.44 min
 End Time: 5.91 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100108-260CV" Sample ID: "111ER" File: "EX501080047.wit"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "386.181.0 amu"
 Comment: "LCMS-EXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 507. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 2:36:52 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.7 min
 Area: 1.17e+007 counts
 Height: 2891286.377 cps
 Start Time: 10.6 min
 End Time: 11.0 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1036-1

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS01080049.wiff

Analysis Date: 09-JAN-10 03:08

LCMSMS ID: 1358

Column ID JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	77.8	78	
2,6-Diamino-4-nitrotoluene	100	78.7	79	
3,4-Dinitrotoluene	50	45.4	91	
3,5-Dinitroaniline	100	89.1	89	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	109	109	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

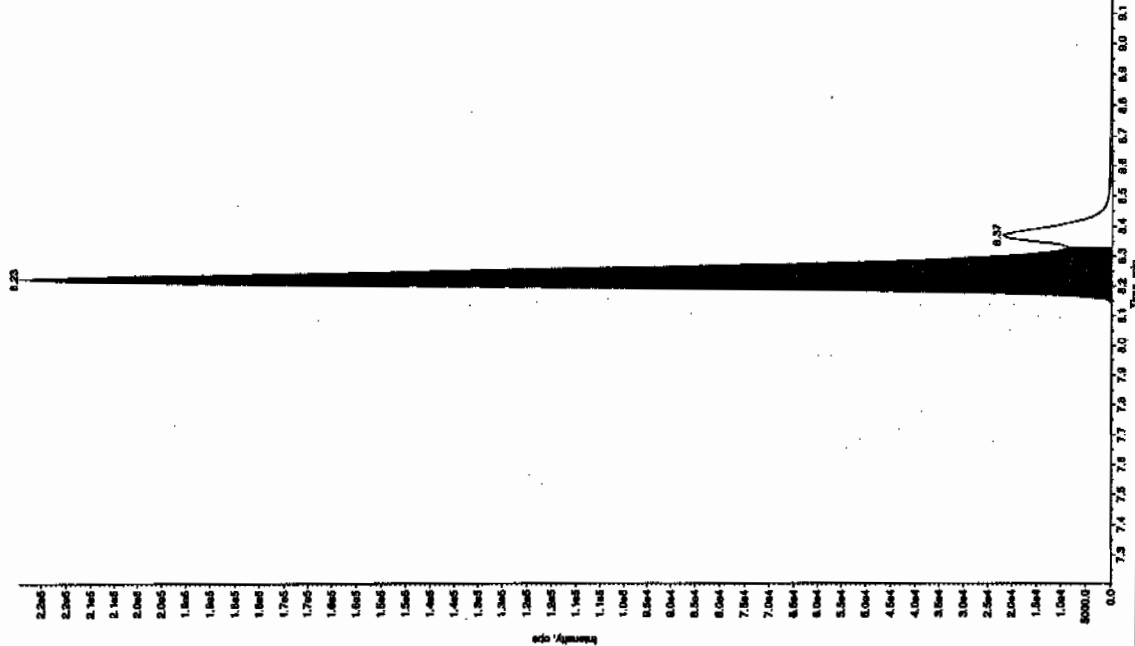
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

2011/10

Sample Name: "WXX100108-27CPI" Sample ID: "111ET"
 Peak Name: "35-Diethanolamine" Mass(es): "182.046.0 amu"
 Comment: "LCMSXP_C" Annotation: "

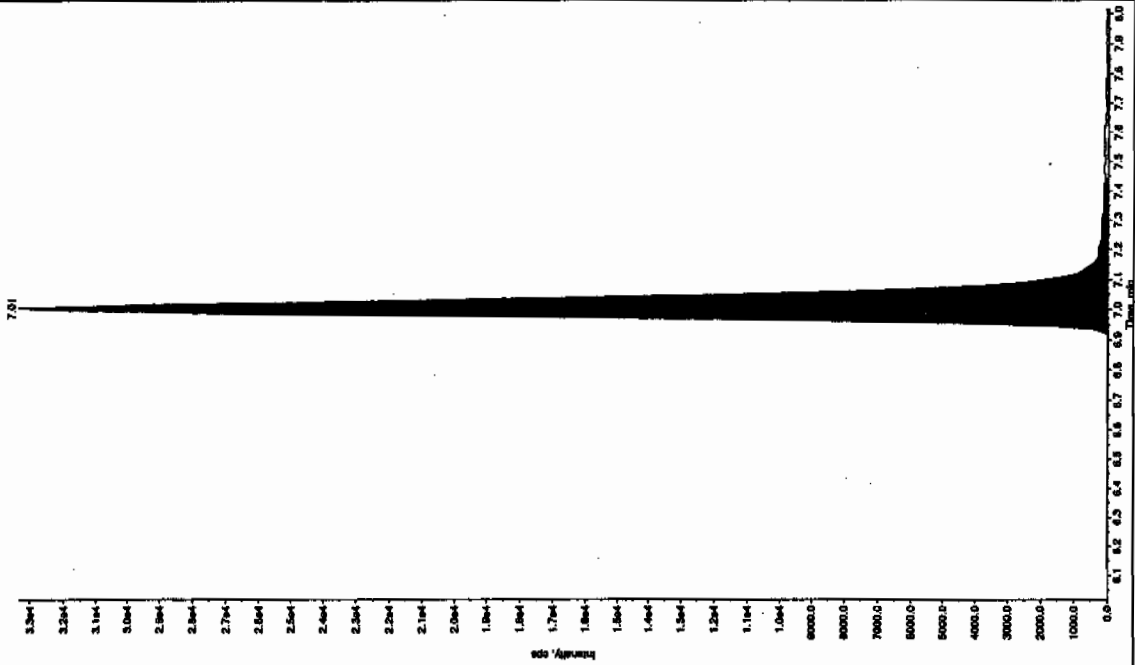
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 89.1 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: Int11Quan - ION
 Min. Peak Width: 200.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.23 min
 Area: 9.56e+005 counts
 Height: 224363.327 cps
 Start Time: 8.13 min
 End Time: 8.33 min



2011/10

Sample Name: "WXX100108-27CPI" Sample ID: "111ET"
 Peak Name: "TATB" Mass(es): "257.2204.8 amu"
 Comment: "LCMSXP_C" Annotation: "

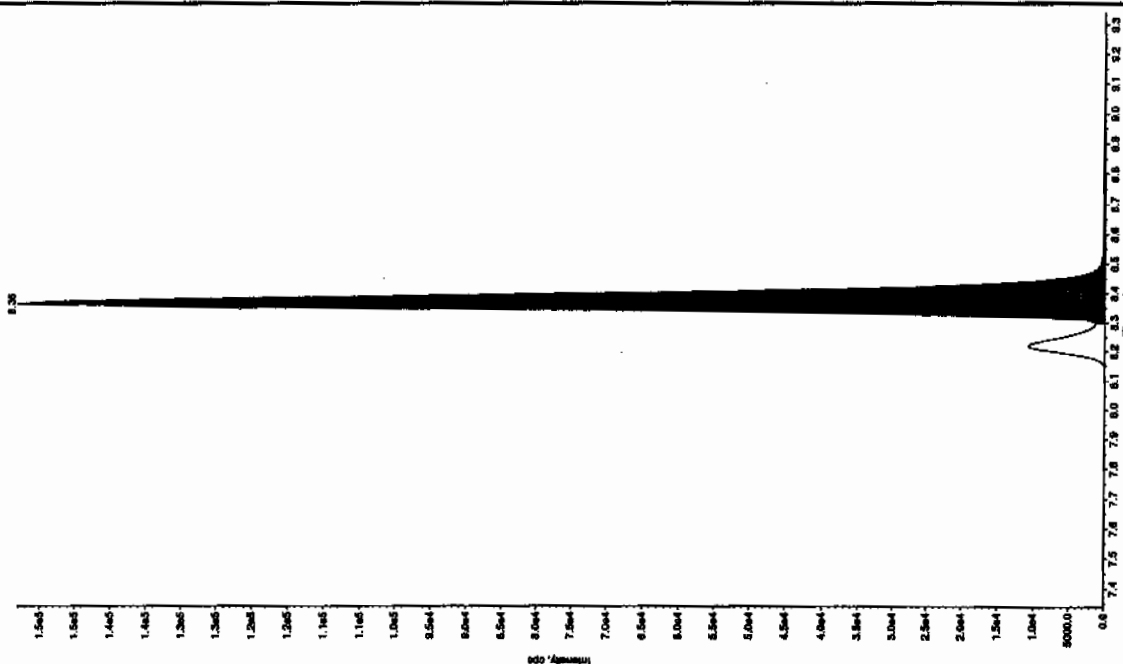
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 100. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: Int11Quan - ION
 Min. Peak Width: 250.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.01 min
 Area: 1.51e+005 counts
 Height: 33339.874 cps
 Start Time: 6.90 min
 End Time: 7.14 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

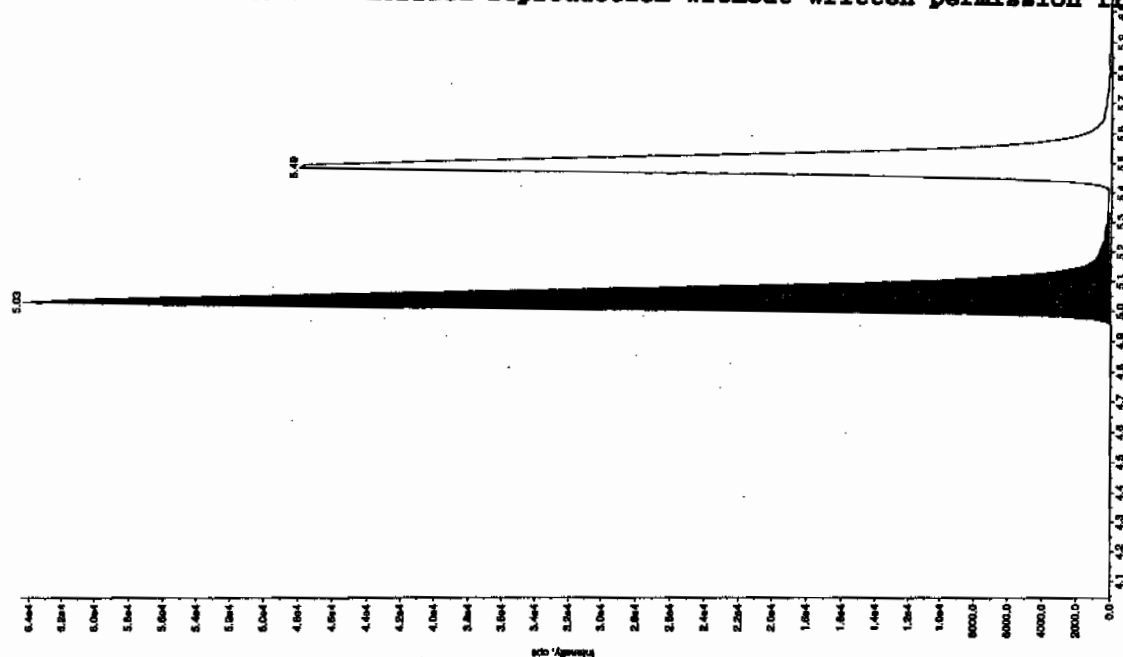
Sample Name: "WXX100108-270R" Sample ID: "111ER" File: "EXS01080049.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1 QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 45.4 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 140 cps
 Min. Peak Width: 3.00 sec
 Search Width: 15.0 points
 Z Window: 8.34 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 5.81e+05 counts
 Height: 153166.885 cps
 Start Time: 8.30 min
 End Time: 8.63 min



Sample Name: "WXX100108-270R" Sample ID: "111ER" File: "EXS01080049.wif"
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

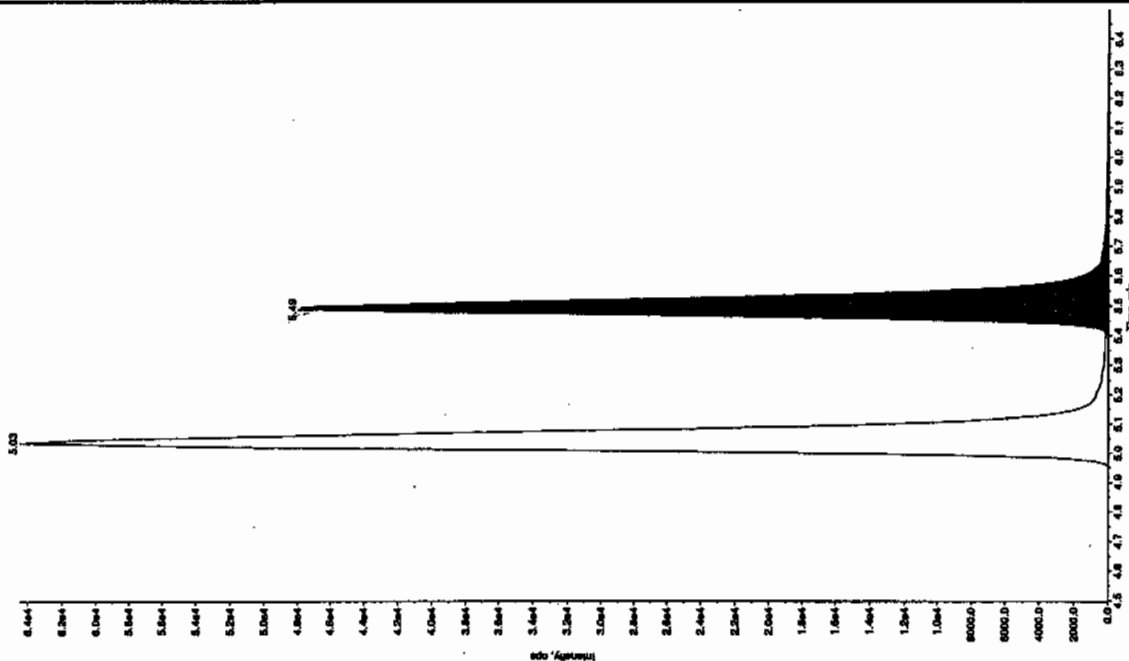
Sample Index: 1 QC
 Concentration: 100. ng/mL
 Calculated Conc: 78.7 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 sec
 Search Width: 30.0 points
 Z Window: 5.04 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 2.81e+05 counts
 Height: 64457.603 cps
 Start Time: 4.94 min
 End Time: 5.33 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

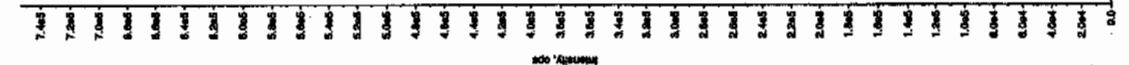
Sample Name: "WXX100108-27CR1" Sample ID: "111ER" File: "EX501080048.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "196.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 77.8 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: Interpolated - IDA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.49 min
 Area: 2.03e+005 counts
 Height: 47886.395 cps
 Start Time: 5.40 min
 End Time: 5.61 min



Sample Name: "WXX100108-27CR1" Sample ID: "111ER" File: "EX501080048.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.181.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 109. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 3:08:17 AM
 Modified: No
 Proc. Algorithm: Interpolated - IDA
 Min. Peak Height: 1.00e4 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: 10.8 min
 Area: 2.78e+006 counts
 Height: 753747.192 cps
 Start Time: 10.7 min
 End Time: 11.1 min



QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009324

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 06-JAN-10

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117022a

Date Analyzed: 18-JAN-10 04:30

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	0.4	U
121-14-2	2,4-Dinitrotoluene	0.4	U
121-82-4	RDX	0.4	U
19406-51-0	4-Amino-2,6-dinitrotoluene	0.4	U
2691-41-0	HMX	0.6	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.6	U
479-45-8	Tetryl	0.4	U
606-20-2	2,6-Dinitrotoluene	0.4	U
78-11-5	PETN	2.92	U
88-72-2	o-Nitrotoluene	0.4	U
98-95-3	Nitrobenzene	0.6	U
99-08-1	m-Nitrotoluene	0.4	U
99-35-4	1,3,5-Trinitrobenzene	0.4	U
99-65-0	m-Dinitrobenzene	0.6	U
99-99-0	p-Nitrotoluene	0.4	U

*Concentration =

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

Printed: Mon Jan 18 13:16:14 2010, Page 1 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Method: C:\MASSLYNX\NEW_EXP.PRO\MethDB\011710expa.mdb, Time: Mon Jan 18 07:21:54 2010
Calibration: C:\MASSLYNX\NEW_EXP.PRO\CurveDB\011710expa.cdb, Time: Mon Jan 18 07:34:18 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117022a

Date: 18-Jan-2010

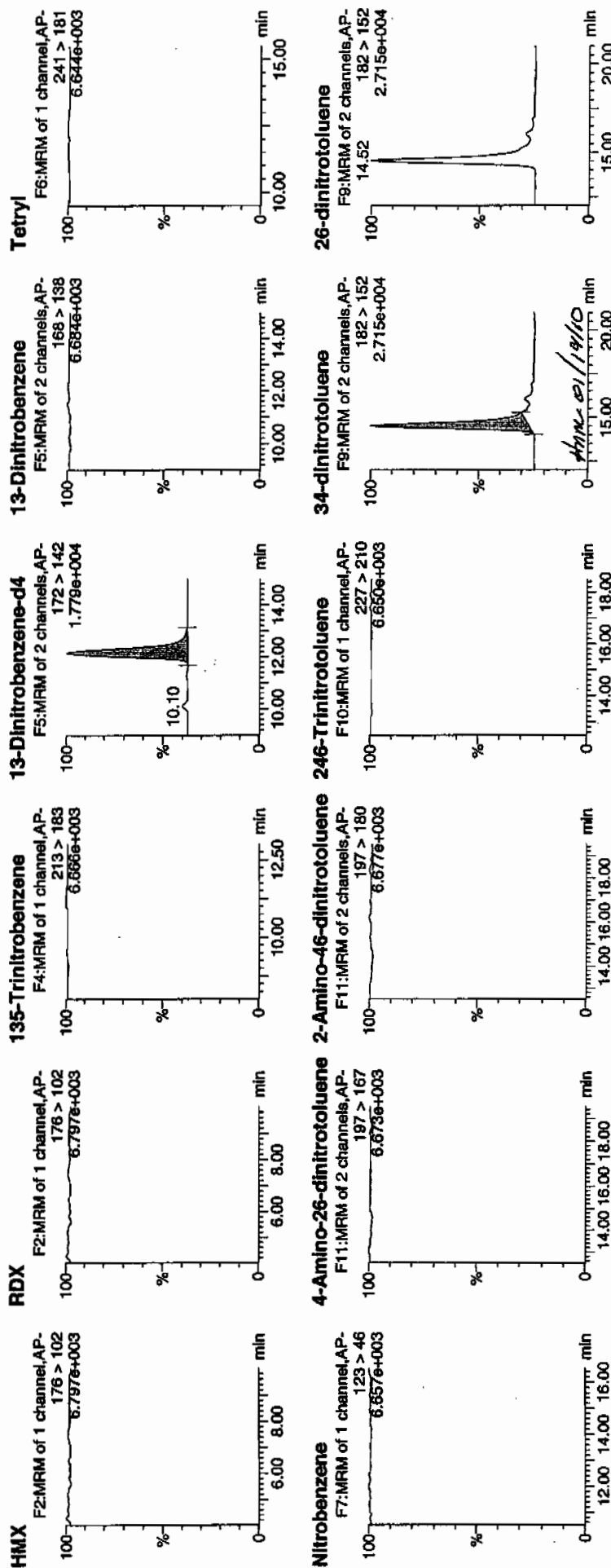
Time: 04:30:13

ID: 1202009324

Vial: 1:5,A

10/19/10

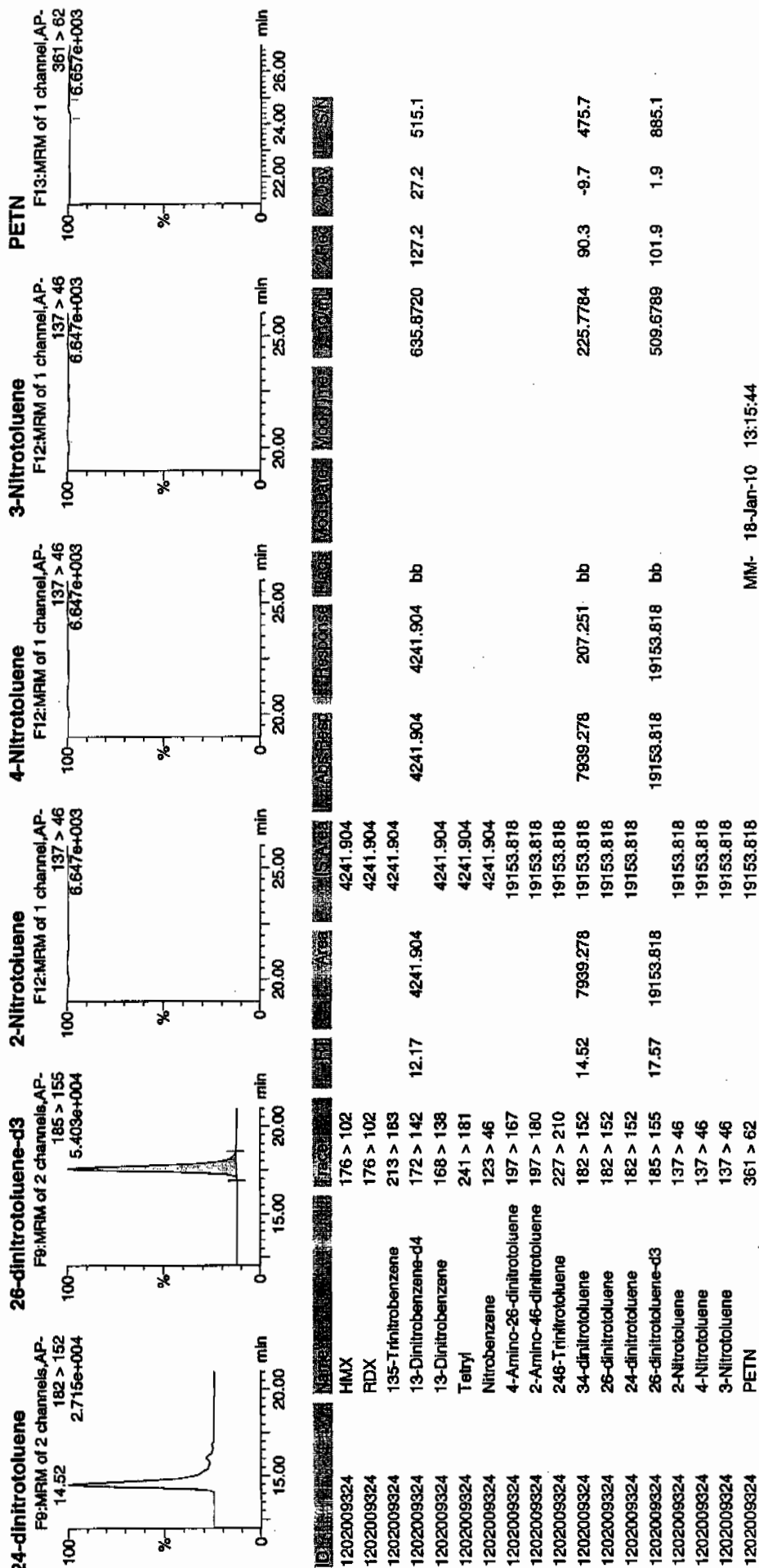
930973 / Swaze / 113 / 2.1



Printed: Mon Jan 18 13:16:14 2010, Page 2 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



MM- 18-Jan-10 13:15:44

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009324

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 06-JAN-10

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080042.wiff

Date Analyzed: 09-JAN-10 01:18

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1.2	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2.0	U
618-87-1	3,5-Dinitroaniline	1.0	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2.0	U
78-30-8	tris(o-cresyl) phosphate	1.0	U

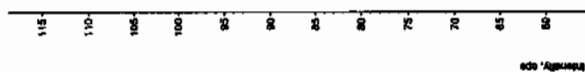
*Concentration =

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

01/11/10
Jat

Sample Name: "120000324" Sample ID: "93697324" File: "EX501000042.mlf"
Peak Name: "TATB" Mass(es): "257.2204.8 amu"
Comment: "LCX83212F" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 1:18:20 AM
Modified: No



Sample Name: "120000324" Sample ID: "93697324" File: "EX501000042.mlf"
Peak Name: "S-Dehydrothiophene" Mass(es): "182.0460.0 amu"
Comment: "LCX83212F" Annotation: ""

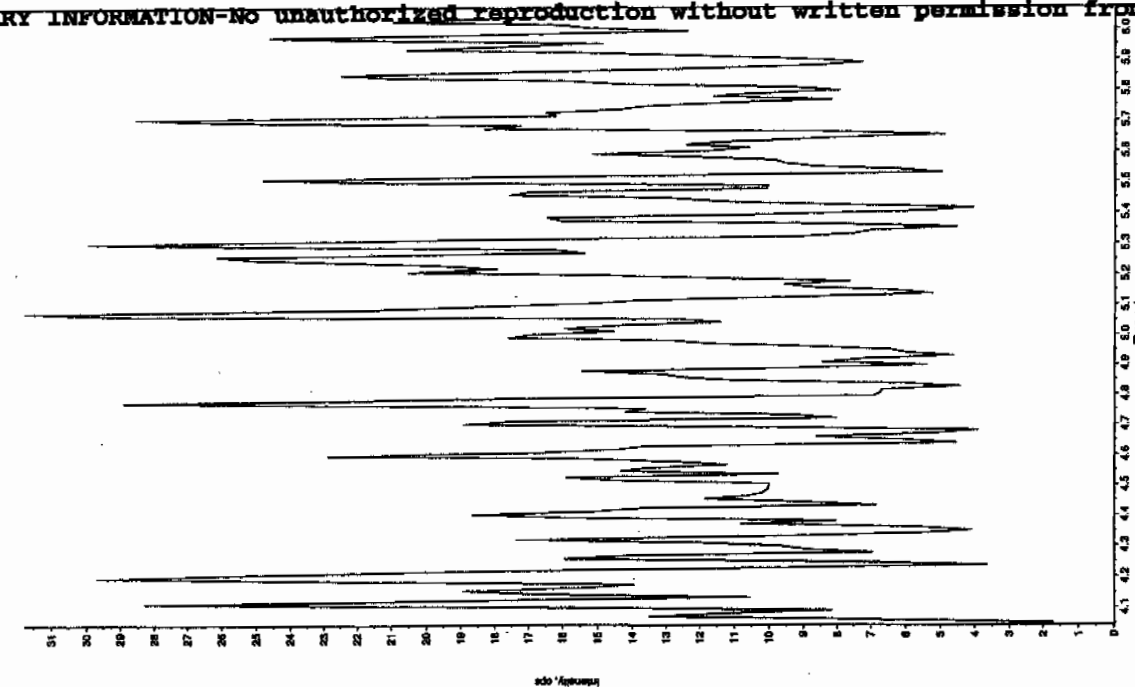
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 pg/mL
Acq. Date: 1/9/2010
Acq. Time: 1:18:20 AM
Modified: No



01/11/10
Jat

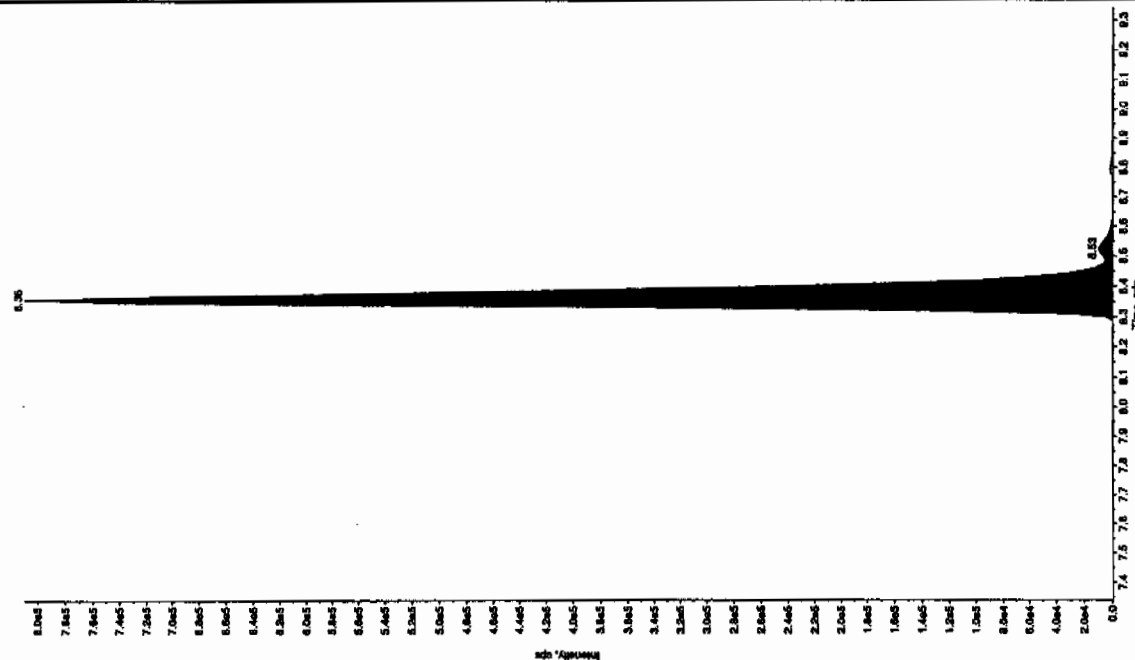
Sample Name: "120600024" Sample ID: "8321A" File: "E:\S01\080042.wif"
 Peak Name: "26-Diisoo-4-ethylidene" Mass(es): 165.046.0 amu
 Comment: "LCX83212P" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:18:20 AM
 Modified: No



Sample Name: "120600024" Sample ID: "8321A" File: "E:\S01\080042.wif"
 Peak Name: "26-Diisoo-4-ethylidene" Mass(es): 165.046.0 amu
 Comment: "LCX83212P" Annotation: "

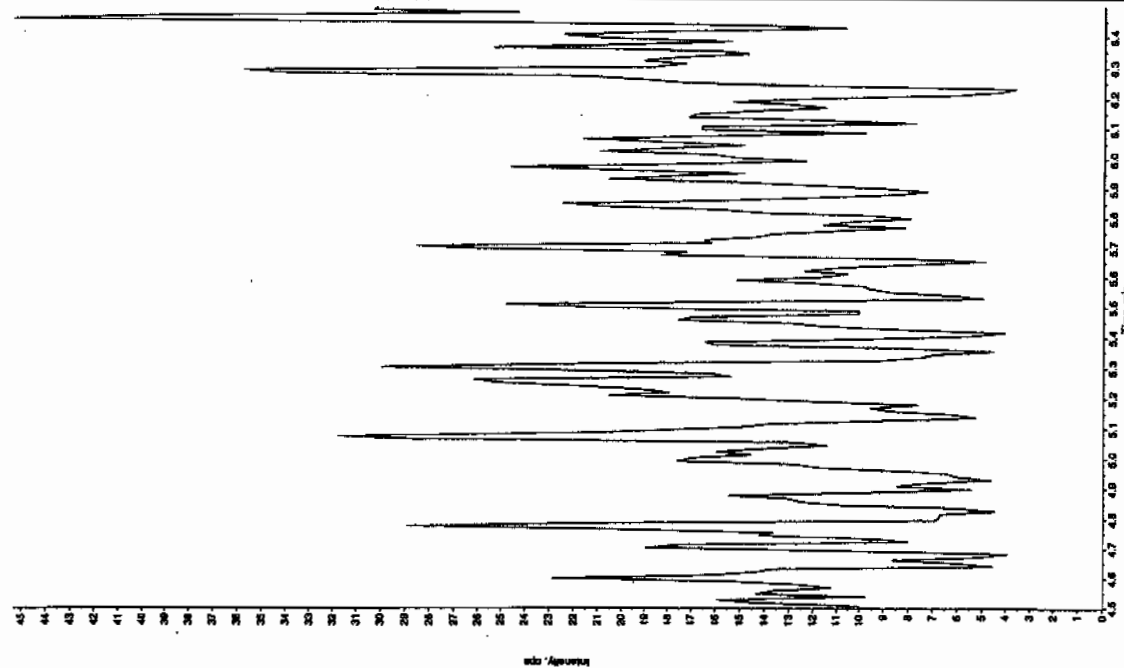
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 228 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:18:20 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 4in. Peak Height: 1160.00 cps
 4in. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Height: 3,024,005 counts
 Start Time: 8.25 min
 End Time: 8.68 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

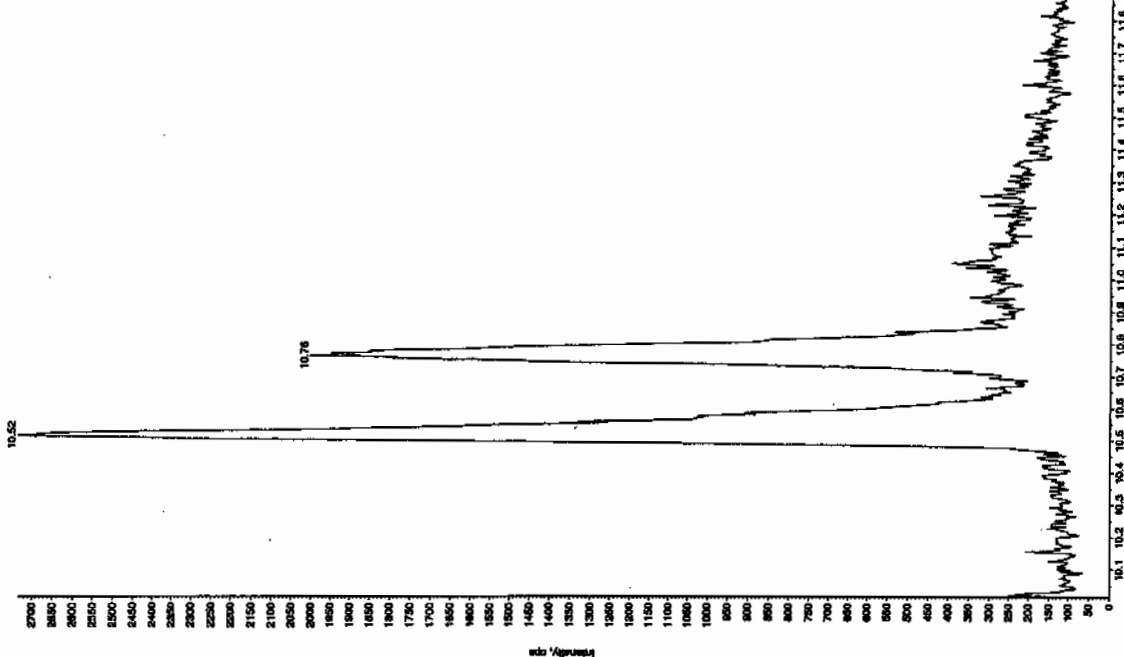
Sample Name: "1202006324" Sample ID: "93897321LEF" File: "EXS01080042.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "185.0465.0 amu"
 Comment: "LCX83212F" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:18:20 AM
 Modified: No



Sample Name: "1202006324" Sample ID: "93897321LEF" File: "EXS01080042.wif"
 Peak Name: "tri(o-cresyl) phosphine" Mass(es): "369.181.0 amu"
 Comment: "LCX83212F" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:18:20 AM
 Modified: No



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009325

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 06-JAN-10

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117023a

Date Analyzed: 18-JAN-10 04:59

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	6.0	
121-14-2	2,4-Dinitrotoluene	9.3	
121-82-4	RDX	11.3	
19406-51-0	4-Amino-2,6-dinitrotoluene	8.98	
2691-41-0	HMX	11.6	
35572-78-2	2-Amino-4,6-dinitrotoluene	10.0	
479-45-8	Tetryl	0.203	J
606-20-2	2,6-Dinitrotoluene	9.41	
78-11-5	PETN	8.28	
88-72-2	o-Nitrotoluene	8.42	
98-95-3	Nitrobenzene	9.75	
99-08-1	m-Nitrotoluene	8.67	
99-35-4	1,3,5-Trinitrobenzene	7.17	
99-65-0	m-Dinitrobenzene	9.29	
99-99-0	p-Nitrotoluene	8.65	

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0117023a

Date: 18-Jan-2010

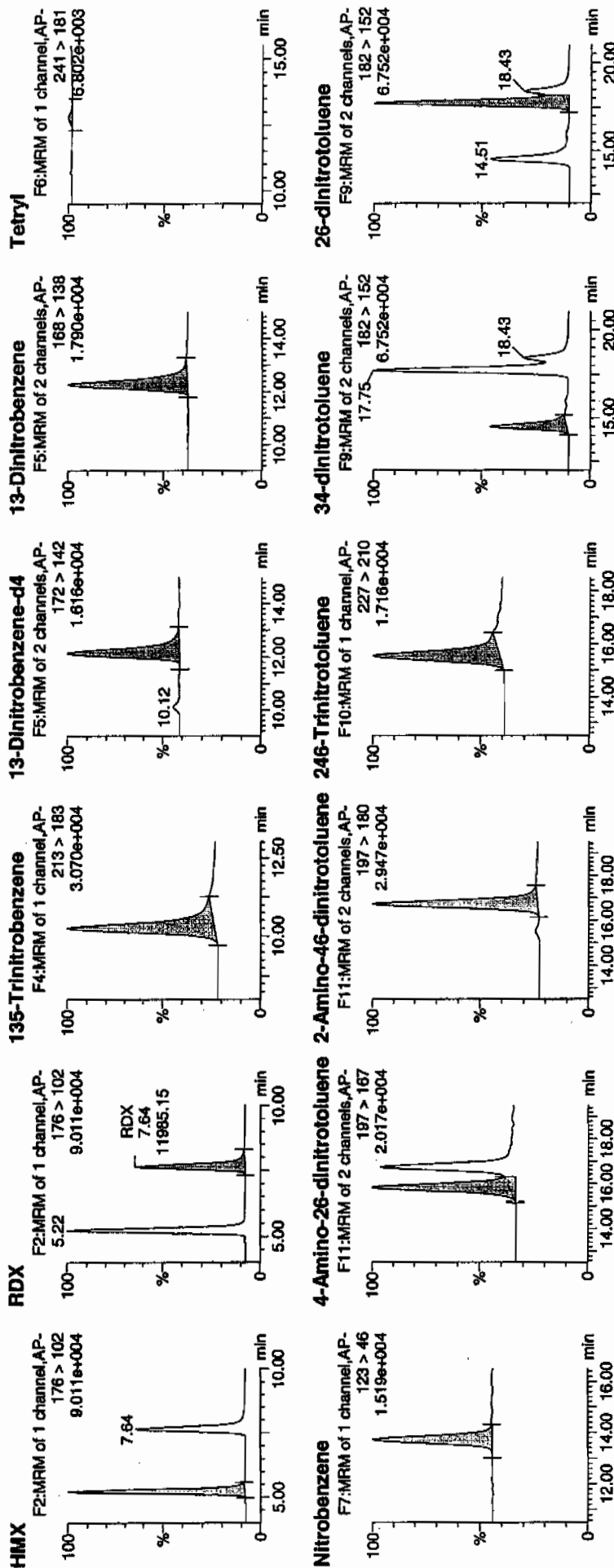
Time: 04:59:44

ID: 1202009325

Vial: 1:5,B

1/18/10

LAU 938973 / Suite / C8 / 21

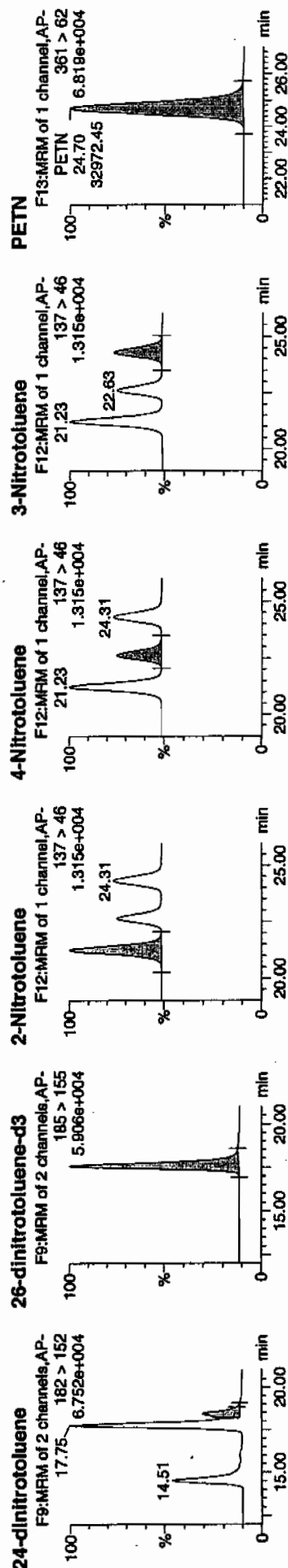


Handwritten note: 1/18/10

Quantify Sample Report

Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010



Name	MW	TPSA	TPSA _{max}	TPSA _{min}	TPSA _{avg}	TPSA _{std}	TPSA _{var}	TPSA _{cov}	TPSA _{corr}	TPSA _{err}	TPSA _{total}	TPSA _{total_{max}}	TPSA _{total_{min}}	TPSA _{total_{avg}}	TPSA _{total_{std}}	TPSA _{total_{var}}	TPSA _{total_{cov}}	TPSA _{total_{corr}}	TPSA _{total_{err}}	TPSA _{total_{total}}
HMX	176 > 102	5.22	16490.699	3619.556	16490.699	2278.000	bb	579.7978	116.0	16.0	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7	2702.7
FDX	176 > 102	7.64	11985.151	3619.556	11985.151	1655.611	bb	565.6806	113.1	13.1	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7
135-Trinitrobenzene	213 > 183	10.27	8750.072	3619.556	8750.072	1208.722	bb	358.7455	71.7	-28.3	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5
13-Dinitrobenzene-d4	172 > 142	12.14	3619.556	3619.556	3619.556	3619.556	bb	542.5805	108.5	8.5	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1
13-Dinitrobenzene	168 > 138	12.27	4356.947	3619.556	4356.947	601.862	bb	464.3781	92.9	-7.1	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3
Tetryl	241 > 181	12.77	63.600	3619.556	63.600	8.786	bb	10.1561	2.0	-98.0	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Nitrobenzene	123 > 46	13.71	2906.301	3619.556	2906.301	401.472	bd	487.3994	97.5	-2.5	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
4-Amino-26-dinitrotoluene	197 > 167	15.82	5507.491	21100.746	5507.491	130.505	MM	448.7760	89.8	-10.2	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2-Amino-46-dinitrotoluene	197 > 180	16.70	8839.971	21100.746	8839.971	209.471	bb	500.6904	100.1	0.1	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
246-Trinitrotoluene	227 > 210	15.54	4447.075	21100.746	4447.075	105.377	bb	300.0902	60.0	-40.0	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6
34-dinitrotoluene	182 > 152	14.51	9477.203	21100.746	9477.203	224.570	bb	244.6465	97.9	-2.1	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6	199.6
26-dinitrotoluene	182 > 152	17.75	22185.975	21100.746	22185.975	525.715	MM	470.5021	94.1	-5.9	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1
24-dinitrotoluene	182 > 152	16.43	4994.136	21100.746	4994.136	118.340	MM	465.1541	93.0	-7.0	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
26-dinitrotoluene-d3	185 > 155	17.57	21100.746	21100.746	21100.746	21100.746	bb	561.4862	112.3	12.3	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2-Nitrotoluene	137 > 46	21.23	2780.712	21100.746	2780.712	66.128	bb	420.8955	84.2	-15.8	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4	559.4
4-Nitrotoluene	137 > 46	22.63	1366.260	21100.746	1366.260	32.375	bb	432.6258	86.5	-13.5	267.2	267.2	267.2	267.2	267.2	267.2	267.2	267.2	267.2	267.2
3-Nitrotoluene	137 > 46	24.31	1535.326	21100.746	1535.326	36.361	bb	433.3827	86.7	-13.3	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1	287.1
PETN	361 > 62	24.70	32972.449	21100.746	32972.449	781.310	bb	414.0980	82.8	-17.2	5539.3	5539.3	5539.3	5539.3	5539.3	5539.3	5539.3	5539.3	5539.3	5539.3

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009325

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 06-JAN-10

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080043.wiff

Date Analyzed: 09-JAN-10 01:34

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7.74	
59229-75-3	2,6-Diamino-4-nitrotoluene	8.88	
618-87-1	3,5-Dinitroaniline	8.68	
6629-29-4	2,4-Diamino-6-nitrotoluene	7.56	
78-30-8	tris(o-cresyl) phosphate	9.96	

*Concentration =

Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor

Sample Name: "120208325" Sample ID: "93897321" File: "EX501080043.wif"

Peak Name: "TATB" Mass(es): "257.204.9 amu"
Comment: "LCX53212F" Annotation: ""

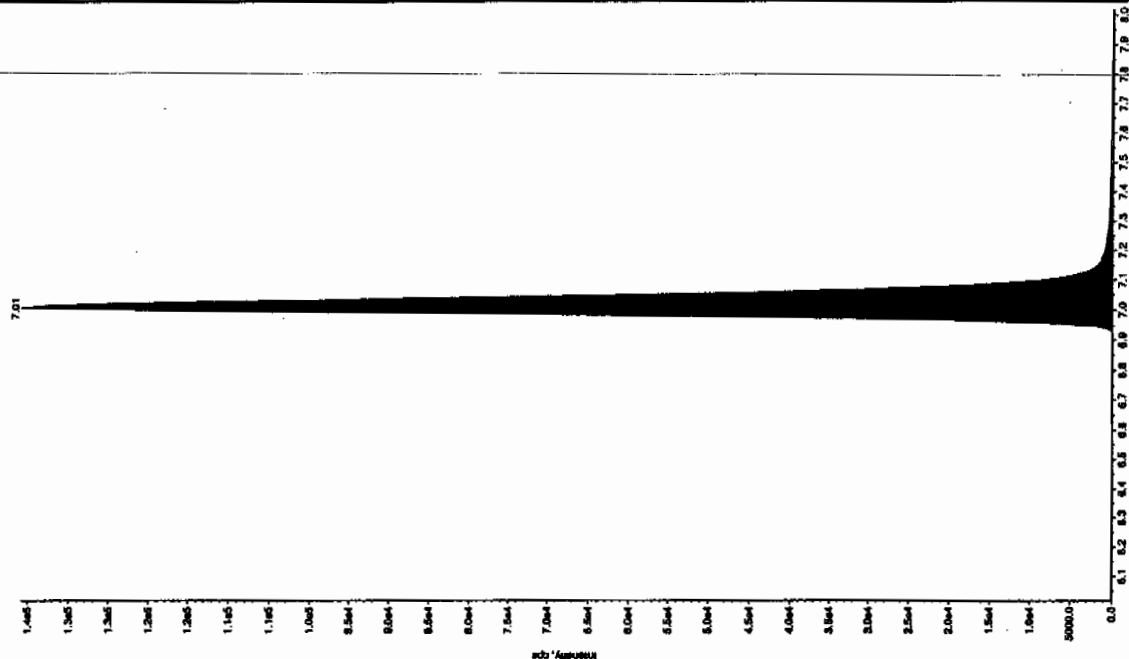
Sample Index: 1

Sample Type: Unknown
Concentration: 287 ng/mL
Acq. Date: 1/9/2010
Acq. Time: 1:34:03 AM

Modified: No

Proc. Algorithm: IntelliQuan - TOA
In. Peak Height: 2500.00 cps
In. Peak Width: 0.00 sec
Smoothing Width: 3 points
T Window: 30.0 sec
Expected RT: 7.02 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 7.01 min
Area: 5.95e+005 counts
Height: 135760.712 cps
Start Time: 6.90 min
End Time: 7.47 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "120208325" Sample ID: "93897321" File: "EX501080043.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
Comment: "LCX53212F" Annotation: ""

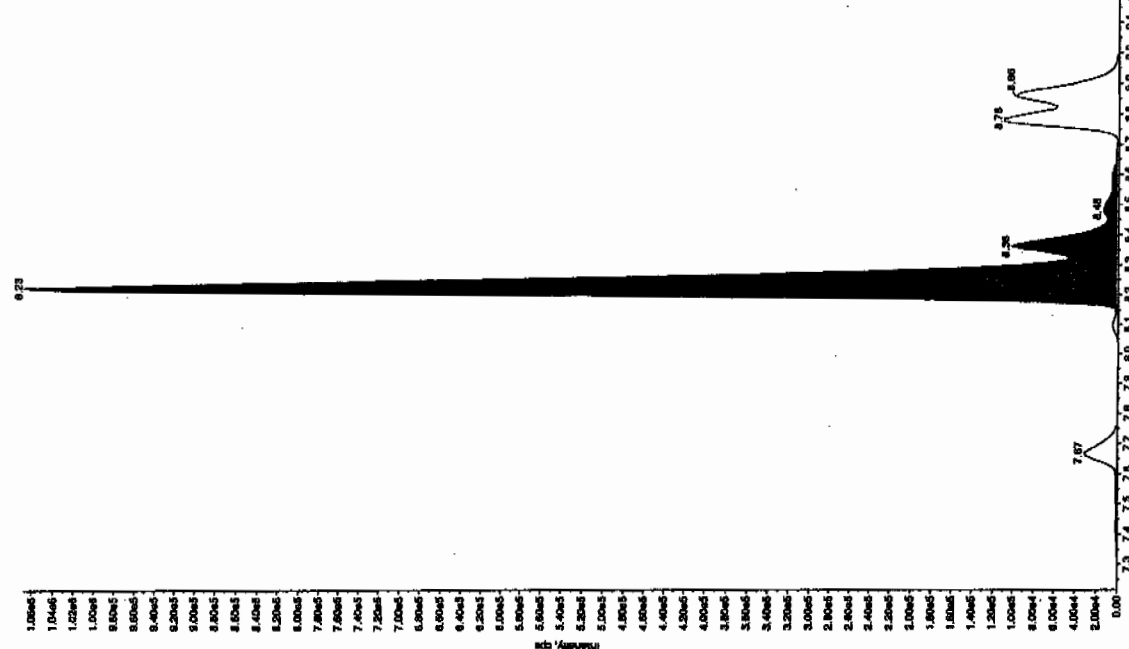
Sample Index: 1

Sample Type: Unknown
Concentration: N/A
Acq. Date: 1/9/2010
Acq. Time: 1:34:03 AM

Modified: Yes

Proc. Algorithm: IntelliQuan - IQA
In. Peak Height: 2000.00 cps
In. Peak Width: 0.00 sec
Smoothing Width: 3 points
T Window: 15.0 sec
Expected RT: 8.22 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.23 min
Area: 4.73e+006 counts
Height: 1065913.940 cps
Start Time: 8.14 min
End Time: 8.68 min

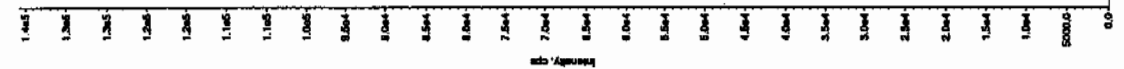


Handwritten signature: *Ham-01/11/10*

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20080204

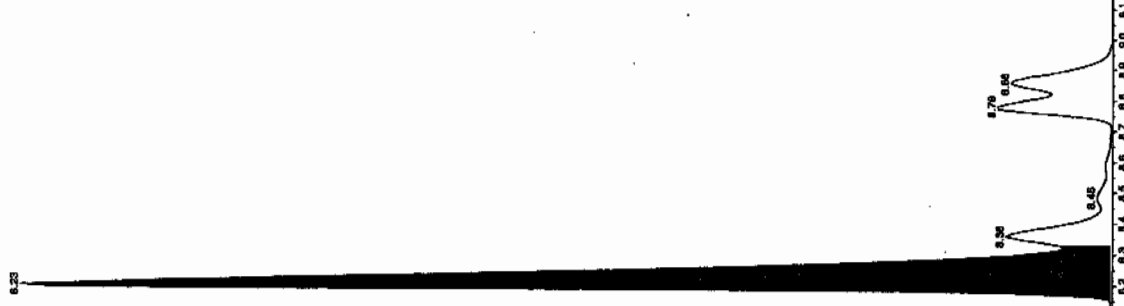
Sample Name: "1202009325" Sample ID: "93873421EF" File: "EXS01060043.wif"
Peak Name: "TATB" Mass(es): "257.2204 9 amu"
Comment: "LCX63212F" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 387. ng/mL
Acq. Date: 1/9/2010
Acq. Time: 1:34:03 AM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 3.00 sec
Smoothing Width: 30.0 points
Retention Time: 7.02 min
Expected RT: No
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.01 min
Area: 5.95e+005 counts
Height: 135760.712 cps
Start Time: 6.90 min
End Time: 7.47 min



Sample Name: "1202009325" Sample ID: "93873421EF" File: "EXS01060043.wif"
Peak Name: "3S-Dichloroiline" Mass(es): "182.046.0 amu"
Comment: "LCX63212F" Annotation: ""

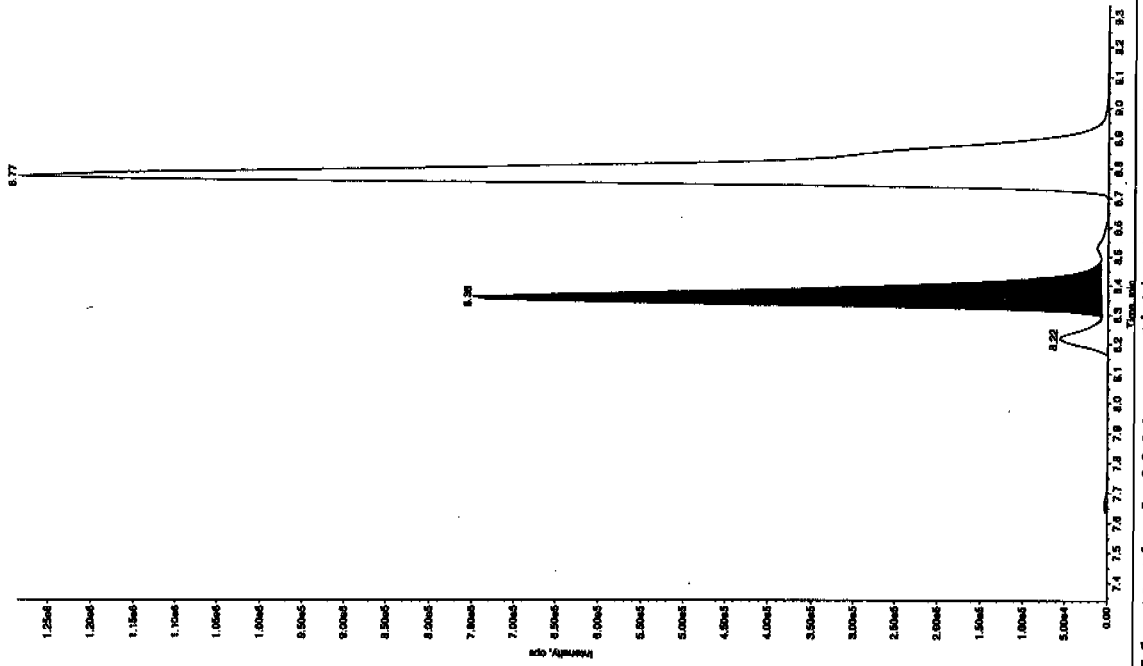
Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 434. ng/mL
Acq. Date: 1/9/2010
Acq. Time: 1:34:03 AM
Modified: Yes
RT Window: 15.0 sec
Expected RT: 8.22 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 8.22 min
Area: 4.28e+005 counts
Height: 1071455.944 cps
Start Time: 8.14 min
End Time: 8.33 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1200000325" Sample ID: "93873212" File: "EXS01080043.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1751.9 amu"
 Comment: "LCX83212P" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 444 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:34:03 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 5.04 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.06 min
 Area: 1.43e+006 counts
 Height: 166969.299 cps
 Start Time: 4.96 min
 End Time: 5.35 min



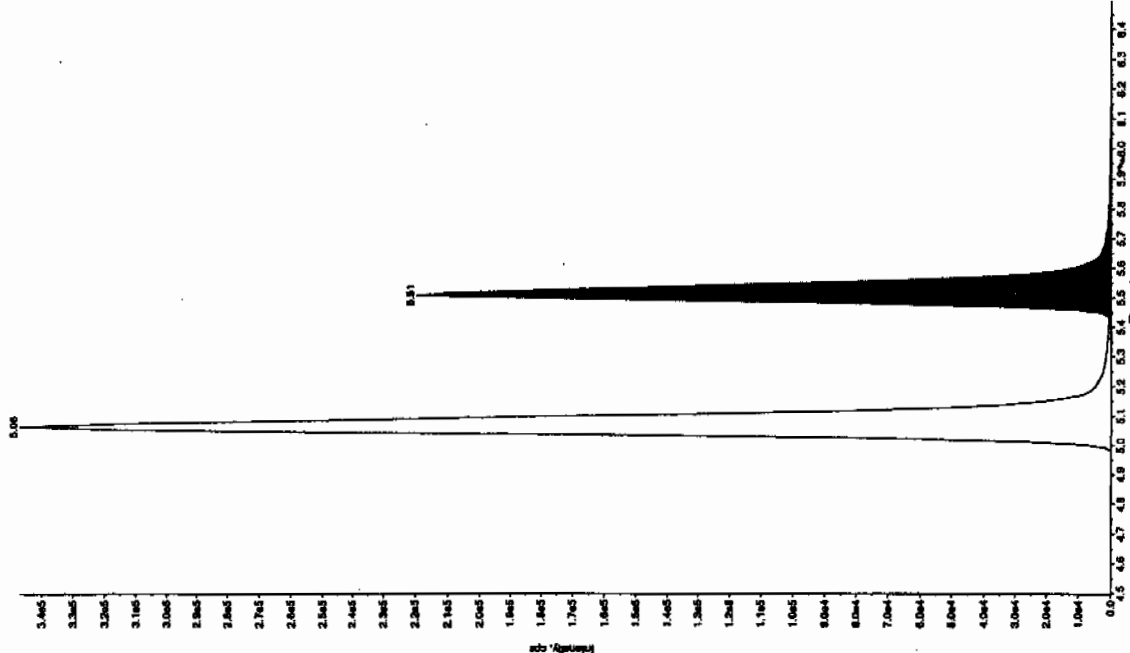
Sample Name: "1200000325" Sample ID: "93873212" File: "EXS01080043.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1751.9 amu"
 Comment: "LCX83212P" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 210 ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:34:03 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 5.04 min
 Expected RT: No
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 2.79e+006 counts
 Height: 740852.661 cps
 Start Time: 8.29 min
 End Time: 8.48 min

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202030325" Sample ID: "93897321LRF" File: "EXS01080043.wif"
 Peak Name: "24-Diamino-8-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX032125" Annotation: ""

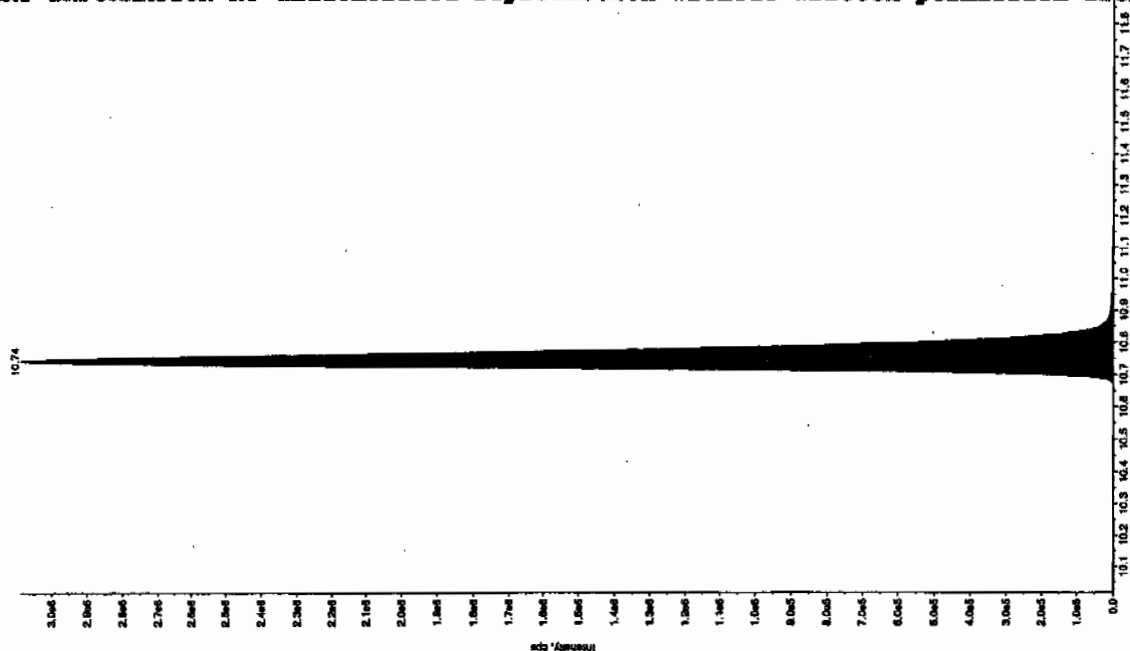
Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 1/9/2010 ng/mL
 Acq. Date: 1/14/03 AM
 Acq. Time: 1:14:03 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IDA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.51 min
 Area: 9.14e+005 counts
 Height: 219403.732 cps
 Start Time: 5.42 min
 End Time: 5.98 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "1202030325" Sample ID: "93897321LRF" File: "EXS01080043.wif"
 Peak Name: "10-(O-cresyl) phosphate" Mass(es): "368.191.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 1/9/2010 ng/mL
 Acq. Date: 1/14/03 AM
 Acq. Time: 1:14:03 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 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: 10.7 min
 Area: 1.16e+007 counts
 Height: 3089721.191 cps
 Start Time: 10.7 min
 End Time: 11.1 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCSD for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009328

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0117024a

Date Analyzed: 18-JAN-10 05:29

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	6.46	
121-14-2	2,4-Dinitrotoluene	10.1	
121-82-4	RDX	9.85	
19406-51-0	4-Amino-2,6-dinitrotoluene	9.12	
2691-41-0	HMX	8.84	
35572-78-2	2-Amino-4,6-dinitrotoluene	9.24	
479-45-8	Tetryl	0.463	
606-20-2	2,6-Dinitrotoluene	9.53	
78-11-5	PETN	8.54	
88-72-2	o-Nitrotoluene	8.63	
98-95-3	Nitrobenzene	9.49	
99-08-1	m-Nitrotoluene	9.33	
99-35-4	1,3,5-Trinitrobenzene	7.49	
99-65-0	m-Dinitrobenzene	9.4	
99-99-0	p-Nitrotoluene	9.26	

*Concentration =

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

Printed: Mon Jan 18 13:16:14 2010, Page 5 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\011710expA1.qld, Time: Mon Jan 18 13:15:44 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0117024a

Date: 18-Jan-2010

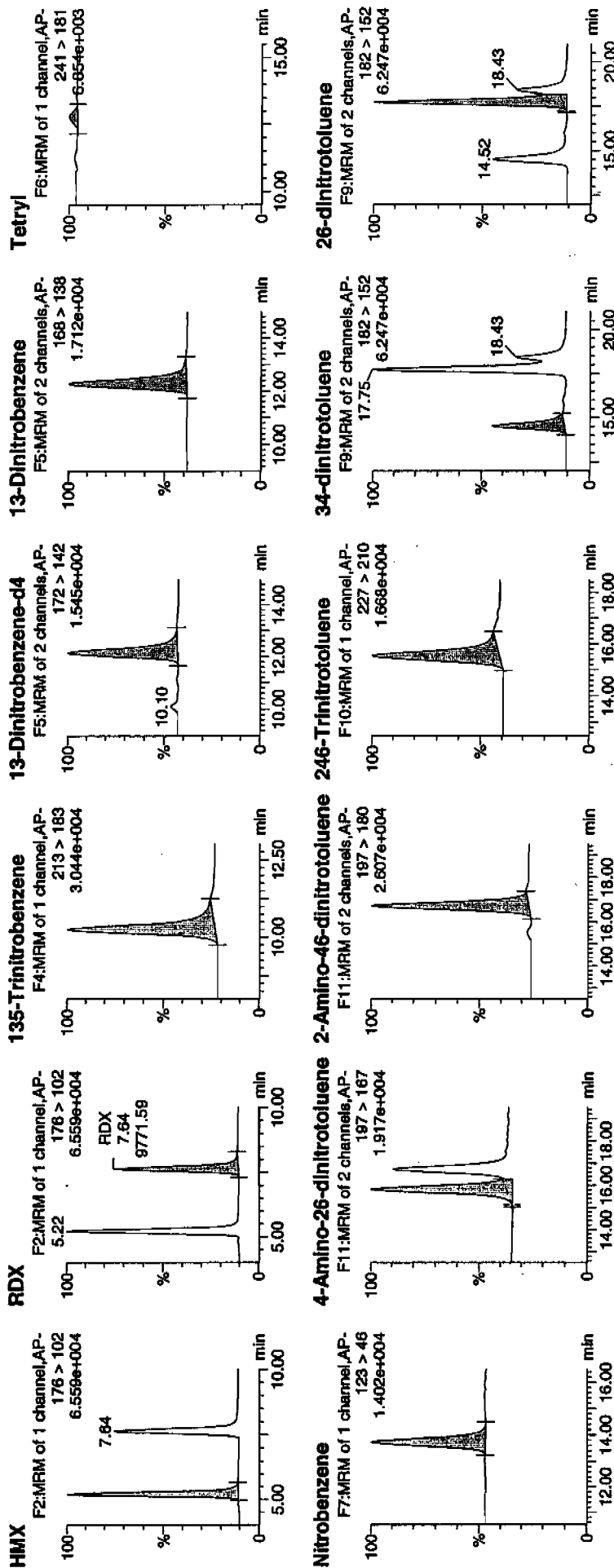
Time: 05:29:14

ID: 1202009328

Vial: 1:5,C

not
1/18/10

938973 / 8077e / LCSD / 21

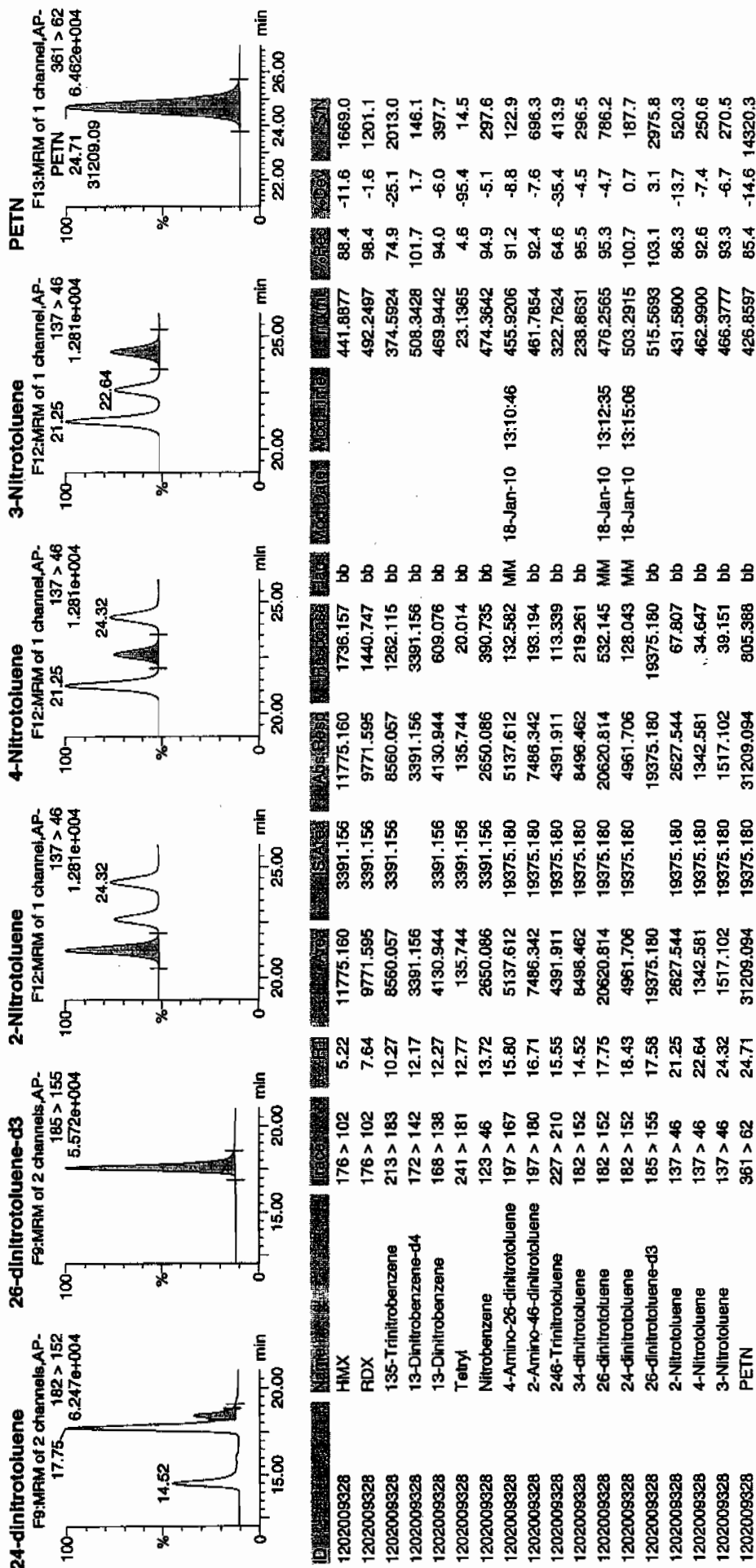


Hum-01/19/10

Printed: Mon Jan 18 13:16:14 2010, Page 6 of 35

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO101710expA1.qld, Time: Mon Jan 18 13:15:44 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCSD for batch 938972

Lab Code: GEL

GEL Job No (SDG) 10-1036-1

Matrix: SWIPE

GEL Sample ID: 1202009328

Sample Amount 1

Moisture:

Amount Units Filter

Date Received: 23-DEC-09

Extraction Type

Extraction Batch ID: 938972

Concentrated Extract Volume (mL) 10

Date Extracted: 06-JAN-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS01080044.wiff

Date Analyzed: 09-JAN-10 01:49

Units: ug/Filter

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	7.62	
59229-75-3	2,6-Diamino-4-nitrotoluene	8.02	
618-87-1	3,5-Dinitroaniline	8.22	
6629-29-4	2,4-Diamino-6-nitrotoluene	7.5	
78-30-8	tris(o-cresyl) phosphate	8.88	

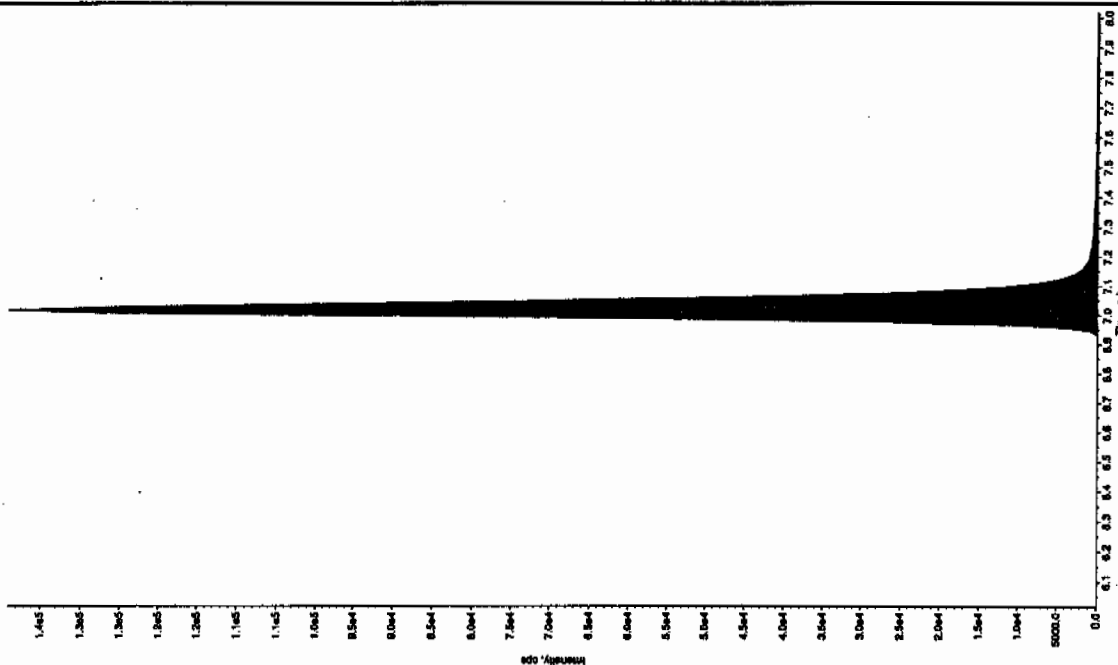
*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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2004/11/10

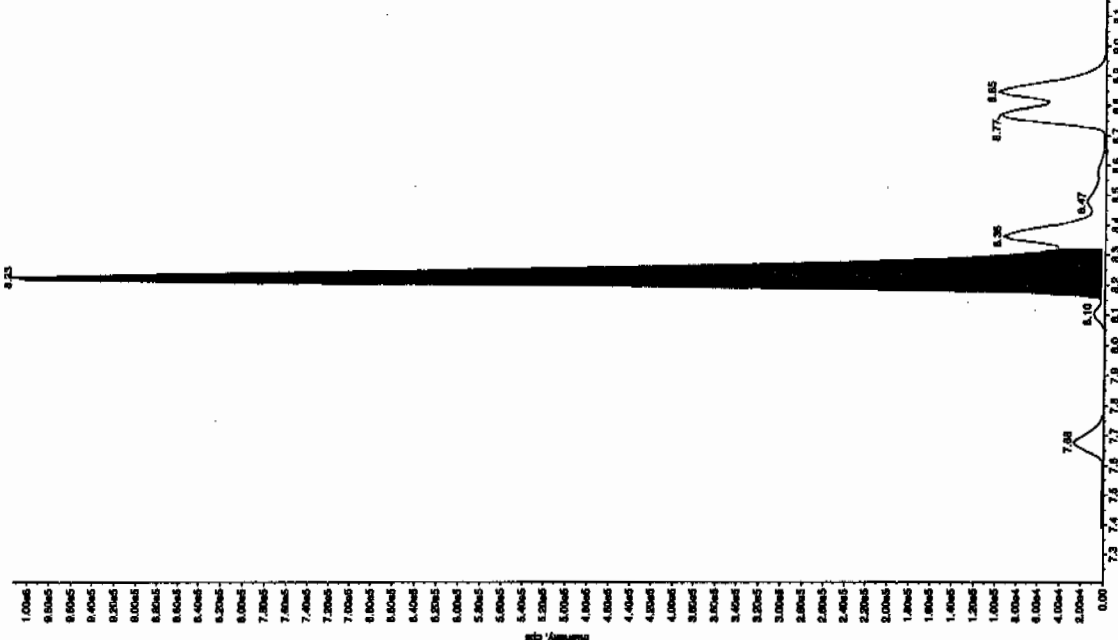
Sample Name: "1202030328" Sample ID: "90873212" File: "EXS01080044.will"
 Peak Name: "TAIB" Mass(es): "257.22049 amu"
 Comment: "LCX63212P" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 381. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:46 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 7.02 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 7.02 min
 Area: 5.86e+005 counts
 Height: 138985.962 cps
 Start Time: 6.90 min
 End Time: 7.55 min



Sample Name: "1202030328" Sample ID: "90873212" File: "EXS01080044.will"
 Peak Name: "35-Chloroaniline" Mass(es): "182.0460 amu"
 Comment: "LCX63212P" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 411. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:46 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - ION
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.21 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.23 min
 Area: 4.06e+006 counts
 Height: 1010574.036 cps
 Start Time: 8.14 min
 End Time: 8.32 min

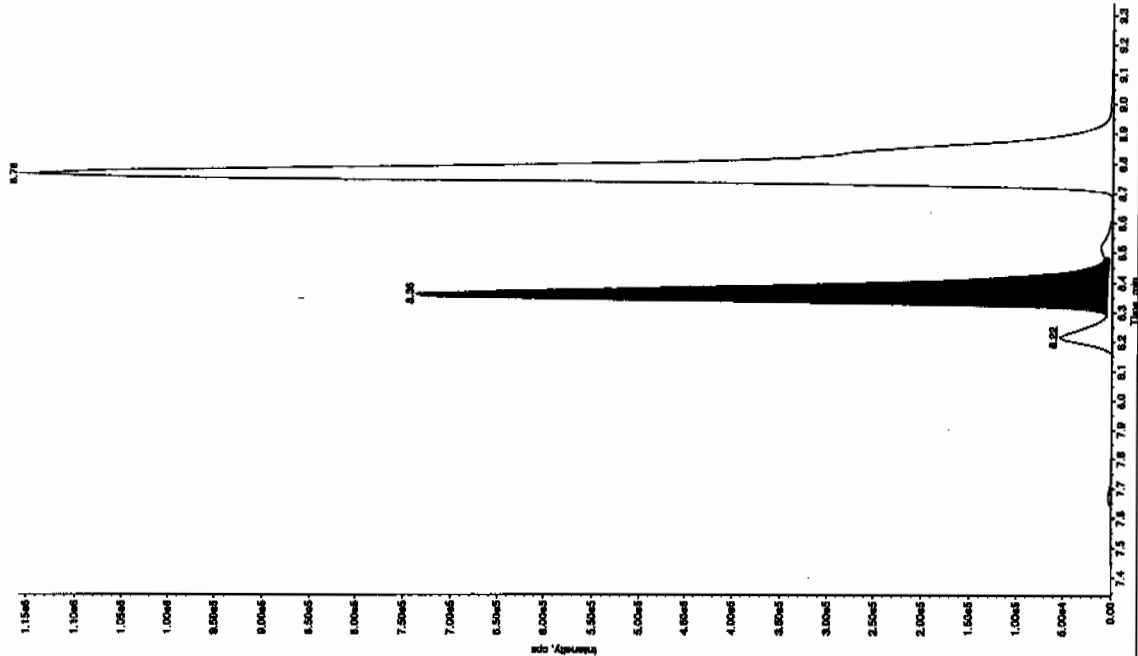


2004/11/10

GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

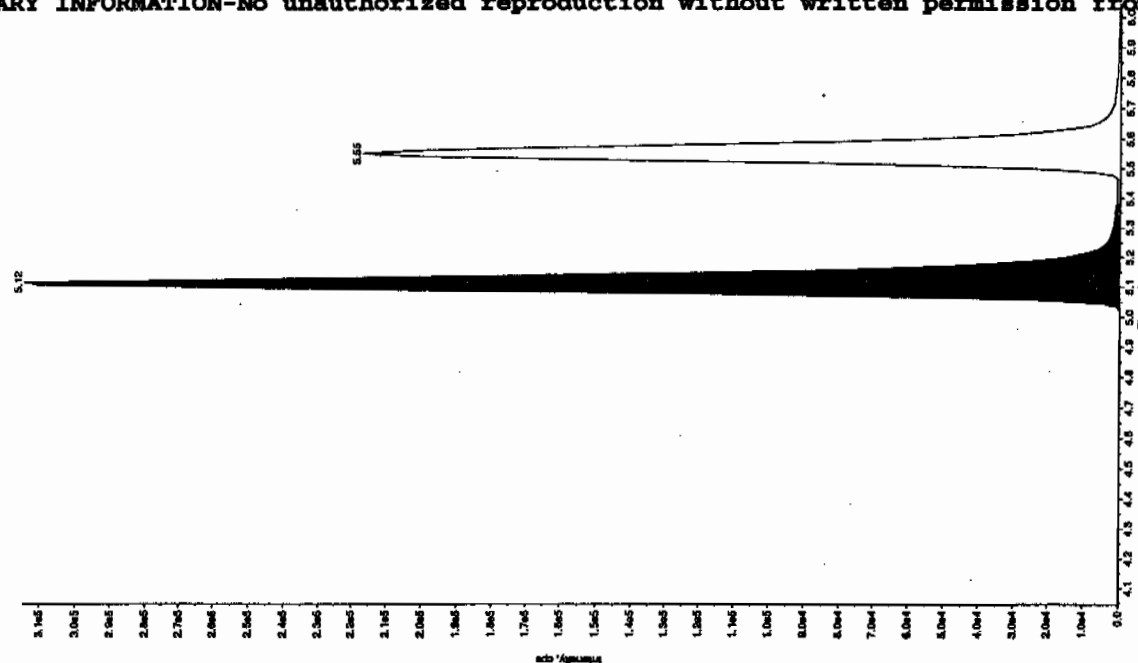
Sample Name: "1202005328" Sample ID: "938973212" File: "EX501080044.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.3 amu"
 Comment: "LCX83212F" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 286.
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:46 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.34 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 2.74e+006 counts
 Height: 731583.416 cps
 Start Time: 8.29 min
 End Time: 8.48 min



Sample Name: "1202005328" Sample ID: "938973212" File: "EX501080044.wif"
 Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "166.0/165.0 amu"
 Comment: "LCX83212F" Annotation: ""

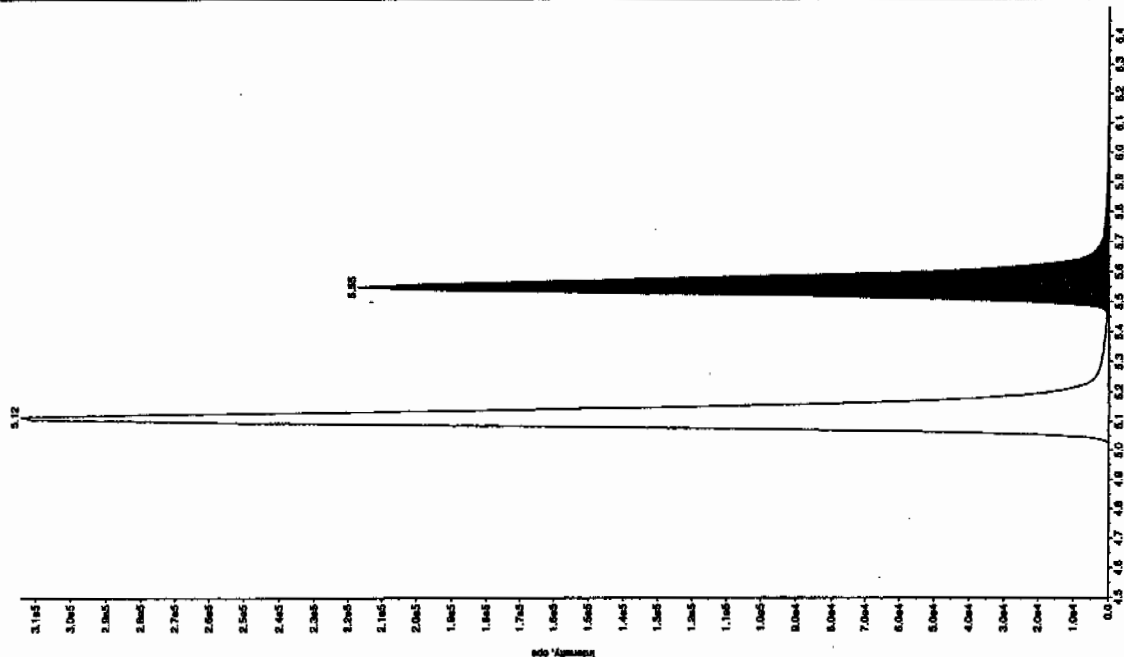
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 481.
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:46 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.12 min
 Area: 1.29e+006 counts
 Height: 314314.087 cps
 Start Time: 5.01 min
 End Time: 5.39 min



GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

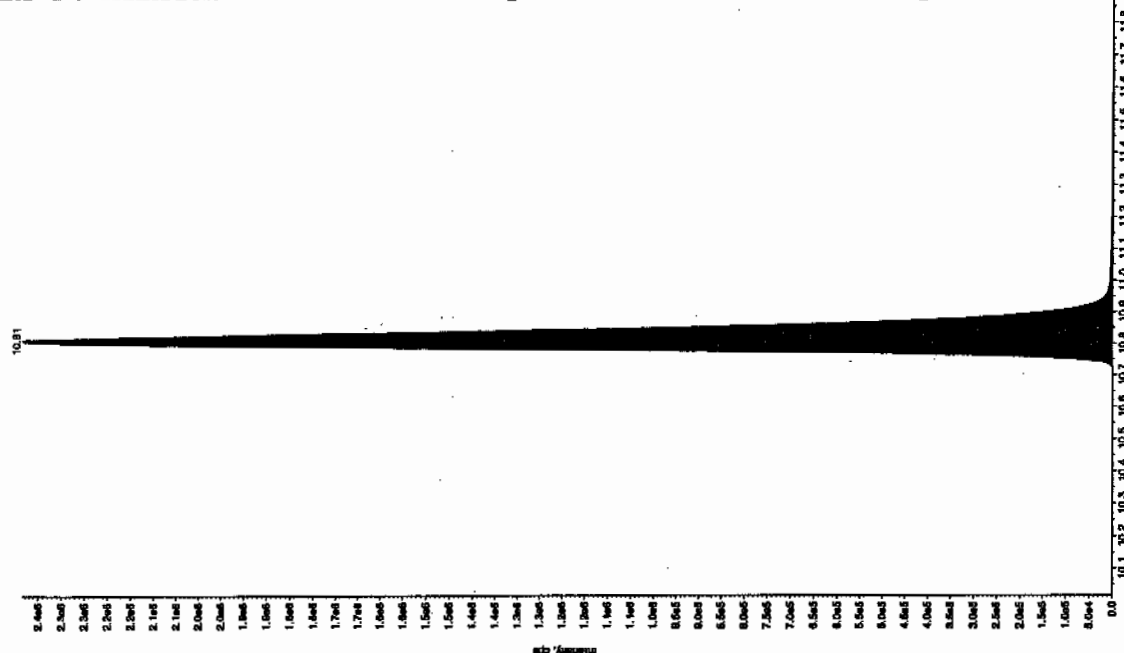
Sample Name: "120200328" Sample ID: "33873211EP" File: "EX501080044.wif"
 Peak Name: "24-Diamino-6-phosphatide" Mass(es): "166.0465.0 amu"
 Comment: "LCX83212F" Association: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 375. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:48 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 5.50 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.55 min
 Area: 9.07e+005 counts
 Height: 216906.448 cps
 Start Time: 5.44 min
 End Time: 6.06 min



Sample Name: "120200328" Sample ID: "33873211EP" File: "EX501080044.wif"
 Peak Name: "1660-coupled phosphatide" Mass(es): "366.181.0 amu"
 Comment: "LCX83212F" Association: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 444. ng/mL
 Acq. Date: 1/9/2010
 Acq. Time: 1:49:48 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1.00e4 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 1.04e+007 counts
 Height: 2386140.381 cps
 Start Time: 10.7 min
 End Time: 11.2 min



GEL 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: 938972 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 (Filter)	Prepped Aliquot (mL)	Prepped Factor (mL/Filter)	Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
1202009324 MB	06-JAN-2010 15:04:13	1	10	10	LCS	1202009325	8321 Explosives LCS	DX091230-03	.1	mL	Final Solvent: ACN
1202009325 LCS	06-JAN-2010 15:04:13	1	10	10	LCS	1202009325	8321 LANL Explosives Mix 10mg/L	UX091229-02.1	1	mL	
1202009328 LCSD	06-JAN-2010 15:04:13	1	10	10	LCSD	1202009328	8321 Explosives LCS	DX091230-03	.1	mL	
243491001	06-JAN-2010 15:04:13	1	10	10	LCSD	1202009328	8321 LANL Explosives Mix 10mg/L	UX091229-02.1	1	mL	
243491002	06-JAN-2010 15:04:13	1	10	10	SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	DX091230-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS #1

Date: 01/17/10
 Extr. Injection Volume: 50uL
 Sequence Number: 011710expA
 Initial Calibration Date: 01/17/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX091230-01.2
 Mobile Phase Lot#: 1255172, 1236350
 Standard-Samp Reagent Lot#: 1253092, 1246195
 Reviewed BY: *hmk*
 Date: *01/19/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100117-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0117001a	XIBLK01	MAP	1/17/10 18:11			1		USE	B
EXP0117002a	XIBLK01	MAP	1/17/10 18:40			1		USE	B
EXP0117003a	WXXICAL-01	MAP	1/17/10 19:10			1		USE	I
EXP0117004a	WXXICAL-02	MAP	1/17/10 19:39			1		USE	I
EXP0117005a	WXXICAL-03	MAP	1/17/10 20:09			1		USE	I
EXP0117006a	WXXICAL-04	MAP	1/17/10 20:38			1		USE	I
EXP0117007a	WXXICAL-05	MAP	1/17/10 21:08			1		USE	I
EXP0117008a	WXXICAL-06	MAP	1/17/10 21:37			1		USE	I
EXP0117009a	XIBLK02	MAP	1/17/10 22:06			1		USE	B
EXP0117010a	WXXICV	MAP	1/17/10 22:36			1		USE	C
EXP0117011a	XIBLK03	MAP	1/17/10 23:05			1		USE	B
EXP0117012a	WXXCRI	MAP	1/17/10 23:35			1		USE	C
EXP0117013a	1202003513	MAP	1/18/10 0:04	936359	10-1032	2	LANL	USE	S
EXP0117014a	1202006166	MAP	1/18/10 0:34	937537	10-1090-1	2	LANL	USE	S
EXP0117015a	1202006170	MAP	1/18/10 1:03	937541	10-1093	2	LANL	USE	S
EXP0117016a	243605003	MAP	1/18/10 1:33	937541	10-1093	2	LANL	USE	S
EXP0117017a	243605013	MAP	1/18/10 2:02	937541	10-1093	2	LANL	USE	S
EXP0117018a	243605019	MAP	1/18/10 2:32	937541	10-1093	2	LANL	USE	S
EXP0117019a	WXXCCV	MAP	1/18/10 3:01			1		USE	C
EXP0117020a	XIBLK04	MAP	1/18/10 3:31			1		USE	B
EXP0117021a	WXXCRI	MAP	1/18/10 4:00			1		USE	C
EXP0117022a	1202009324	MAP	1/18/10 4:30	938973	10-1036-1	2	LANL	USE	S
EXP0117023a	1202009325	MAP	1/18/10 4:59	938973	10-1036-1	2	LANL	USE	S
EXP0117024a	1202009328	MAP	1/18/10 5:29	938973	10-1036-1	2	LANL	USE	S
EXP0117025a	243491001	MAP	1/18/10 5:58	938973	10-1036-1	2	LANL	USE	S
EXP0117026a	243491002	MAP	1/18/10 6:28	938973	10-1036-1	2	LANL	USE	S
EXP0117027a	WXXCCV	MAP	1/18/10 6:57			1		USE	C
EXP0117028a	XIBLK05	MAP	1/18/10 7:27			1		USE	B
EXP0117029a	WXXCRI	MAP	1/18/10 7:56			1		USE	C

EXP0117030a	1202003473	MAP	1/18/10 8:26	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117031a	1202003474	MAP	1/18/10 8:55	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117032a	243401006	MAP	1/18/10 9:25	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117033a	1202003475	MAP	1/18/10 9:54	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117034a	1202003476	MAP	1/18/10 10:24	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117035a	243401010	MAP	1/18/10 10:53	936340	10-1020	2	LANL	DUSE-RA	S
EXP0117036a	WXXCCV	MAP	1/18/10 11:23			1		USE	C
EXP0117037a	XIBLK06	MAP	1/18/10 11:52			1		USE	B
EXP0117038a	WXXCRI	MAP	1/18/10 12:22			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 01/08/10

Method: 8321A-Modified

Extr. Injection Volume: 10ul

Int. Std.: N/A

Sequence Number: 010810exs

Mobile Phase Lot#:1236350, 1246467

Initial Calibration Date: 010810

Standard-Samp Reagent Lot#: 1233976, 1246693

Reviewed By: *[Signature]*
Date: 01/11/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100108-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS01080001.wiff	XIBLK01	LER	1/8/2010 14:34			1		USE	B
EXS01080002.wiff	XIBLK01	LER	1/8/2010 14:50			1		USE	B
EXS01080003.wiff	WXXICAL-19	LER	1/8/2010 15:05			1		USE	I
EXS01080004.wiff	WXXICAL-20	LER	1/8/2010 15:21			1		USE	I
EXS01080005.wiff	WXXICAL-21	LER	1/8/2010 15:37			1		USE	I
EXS01080006.wiff	WXXICAL-22	LER	1/8/2010 15:53			1		USE	I
EXS01080007.wiff	WXXICAL-23	LER	1/8/2010 16:08			1		USE	I
EXS01080008.wiff	WXXICAL-24	LER	1/8/2010 16:24			1		USE	I
EXS01080009.wiff	WXXICAL-25	LER	1/8/2010 16:40			1		USE	I
EXS01080010.wiff	XIBLK02	LER	1/8/2010 16:55			1		USE	B
EXS01080011.wiff	WXXICV	LER	1/8/2010 17:11			1		USE	C
EXS01080012.wiff	XIBLK03	LER	1/8/2010 17:27			1		USE	B
EXS01080013.wiff	WXXCRI	LER	1/8/2010 17:42			1		USE	C
EXS01080014.wiff	1202006170	LER	1/8/2010 17:58	937541	10-1093	2	LANL	USE	S
EXS01080015.wiff	1202006171	LER	1/8/2010 18:14	937541	10-1093	2	LANL	USE	S
EXS01080016.wiff	243605003	LER	1/8/2010 18:30	937541	10-1093	2	LANL	USE	S
EXS01080017.wiff	1202006172	LER	1/8/2010 18:45	937541	10-1093	2	LANL	USE	S
EXS01080018.wiff	1202006173	LER	1/8/2010 19:01	937541	10-1093	2	LANL	USE	S
EXS01080019.wiff	243605004	LER	1/8/2010 19:17	937541	10-1093	2	LANL	USE	S
EXS01080020.wiff	243605005	LER	1/8/2010 19:32	937541	10-1093	2	LANL	USE	S
EXS01080021.wiff	243605006	LER	1/8/2010 19:48	937541	10-1093	2	LANL	USE	S
EXS01080022.wiff	243605007	LER	1/8/2010 20:04	937541	10-1093	2	LANL	USE	S
EXS01080023.wiff	243605008	LER	1/8/2010 20:19	937541	10-1093	2	LANL	DUSE-RA	S
EXS01080024.wiff	WXXCCV	LER	1/8/2010 20:35	937541	10-1093	2	LANL	USE	S
EXS01080025.wiff	XIBLK04	LER	1/8/2010 20:51			1		USE	C
EXS01080026.wiff	WXXCRI	LER	1/8/2010 21:06			1		USE	B
EXS01080027.wiff	243605009	LER	1/8/2010 21:22	937541	10-1093	2	LANL	USE	C
EXS01080028.wiff	243605010	LER	1/8/2010 21:38	937541	10-1093	2	LANL	USE	S
EXS01080029.wiff	243605011	LER	1/8/2010 21:54	937541	10-1093	2	LANL	USE	S

EXS01080030.wiff	243605012	LER	1/8/2010 22:09	937541	10-1093	2	LANL	USE	S
EXS01080031.wiff	243605013	LER	1/8/2010 22:25	937541	10-1093	2	LANL	USE	S
EXS01080032.wiff	243605014	LER	1/8/2010 22:41	937541	10-1093	2	LANL	USE	S
EXS01080033.wiff	243605015	LER	1/8/2010 22:56	937541	10-1093	2	LANL	USE	S
EXS01080034.wiff	243605016	LER	1/8/2010 23:12	937541	10-1093	2	LANL	USE	S
EXS01080035.wiff	243605017	LER	1/8/2010 23:28	937541	10-1093	2	LANL	USE	S
EXS01080036.wiff	243605018	LER	1/8/2010 23:44	937541	10-1093	2	LANL	USE	S
EXS01080037.wiff	WXXCCV	LER	1/8/2010 23:59			1		USE	C
EXS01080038.wiff	XIBLK05	LER	1/9/2010 0:15			1		USE	B
EXS01080039.wiff	WXXCRI	LER	1/9/2010 0:31			1		USE	C
EXS01080040.wiff	243605019	LER	1/9/2010 0:46	937541	10-1093	2	LANL	USE	S
EXS01080041.wiff	XIBLK06	LER	1/9/2010 1:02			1		USE	B
EXS01080042.wiff	1202009324	LER	1/9/2010 1:18	938973	10-1036-1	2	LANL	USE	S
EXS01080043.wiff	1202009325	LER	1/9/2010 1:34	938973	10-1036-1	2	LANL	USE	S
EXS01080044.wiff	1202009328	LER	1/9/2010 1:49	938973	10-1036-1	2	LANL	USE	S
EXS01080045.wiff	243491001	LER	1/9/2010 2:05	938973	10-1036-1	2	LANL	USE	S
EXS01080046.wiff	243491002	LER	1/9/2010 2:21	938973	10-1036-1	2	LANL	USE	S
EXS01080047.wiff	WXXCCV	LER	1/9/2010 2:36			1		USE	C
EXS01080048.wiff	XIBLK07	LER	1/9/2010 2:52			1		USE	B
EXS01080049.wiff	WXXCRI	LER	1/9/2010 3:08			1		USE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 781120

Revision No.: 1

DATA EXCEPTION REPORT

Mo.Day Yr. 18-JAN-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Filter	Client Code: LANL
Batch ID: 938973	Sample Numbers: 1202009325, 1202009328		
Potentially affected work order(s)(SDG): 243491(10-1036-1) Application Issues: Other Failed Recovery for LCS/LCSD Failed RPD for LCS/LCSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. Samples 243491001 and 243491002 were extracted out of holding. 2. The Laboratory Control Sample (1202009325) did not meet spike recovery limits for Tetra at 2.03% with recovery limits of 31-119% and 2,4,6-Trinitrotoluene at 60.0% with recovery limits of 78-132%. 3. The Laboratory Control Sample Duplicate (1202009328) did not meet spike recovery limits for Tetra at 4.63% with recovery limits of 31-119% and 2,4,6-Trinitrotoluene at 64.6% with recovery limits of 78-132%. 4. The LCS/LCSD pair (1202009325/328) did not meet RPD acceptance limits for HMX at 27.0% and Tetra at 78.0%. The acceptance limits are 0-30%.		1. The stated samples were collected on 12/18/09 and received on 12/23/09. They were extracted on 01/06/10. The samples were extracted out of the 14 day hold period but within twice the hold period. The data are reported. 2. & 3. Since similar recoveries were obtained between the Laboratory Control Sample and Laboratory Control Sample Duplicate, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative. 4. Since all other RPD recoveries met acceptance criteria, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.	

Originator's Name:

Michael Penny 18-JAN-10

Data Validator/Group Leader:

Herbert Maier 18-JAN-10

☒ Extractions were done within holding time: from collection - W - 28d S - 28d
☒ If no is there a re-extract? Yes No from receipt - W - S -
☒ If no is there a confirmation Yes No
☒ Extractions were analyzed within holding time: from extraction -
☒ If no is there a confirmation Yes No from collection -
☒ The method was followed for sample preparation: volume extracted - 10 mL 28d ml
weight extracted - 2g g
☒ Targets were within calibration range for at all reported hits/sample.
☒ One target compound quantitation checked per tune window or per instrument.
☒ Dilutions kept hits in the upper half of the calibration range.

Comments:

None

RICs and QRs:

☒ Submitted for each sample.
☒ Required items present: Client sample ID, analysis date and time, instrument ID, etc..
☒ Peak profiles for manual integrations.

Spectra:

☒ Spectra meet the qualitative identification criteria.

Comments:

None

FORM 2: INITIAL CALIBRATION; FORM : Initial Calibration Verification

Total # Pages = 4

☒ Calibration Levels for Method_ 8321A
☒ CODs match on Form 6 and Quantify Calibration Report Yes No
☒ Form 2 present for each Initial Calibration.
☒ Entries and headings spot-checked and found to be accurate.
☒ Initial Calibration Verification present Yes No
☒ Entries and headings spot-checked and found to be accurate.
☒ Exceptions:

☒ Raw data (RIC and QR) present for each standard analysis.
☒ Raw data labeled with analysis date and time, Instrument ID, Lab File ID.
☒ RICs normalized to the largest nonsolvent peak.

Comments:

all 01/14 DATA missing

FORM 3: CONTINUING CALIBRATION

Total # Pages =

☒ Form 3 present for each Continuing Calibration.
☒ Entries and headings spot-checked and found to be accurate.

Exceptions:

☒ Raw data (RIC and QR) present for each standard analysis.
☒ Raw data labeled with analysis date and time, Instrument ID, Lab File ID?
☒ RICs normalized to the largest nonsolvent peak.

Comments:

FORM 3: MDL Verification (CRI)

Total # Pages =

☒ Lab File ID, analysis date and time, Instrument ID and GEL stamp present on raw data.

QC RAW DATA

TUNE:

NA

☒ Lab File ID, analysis date and time, Instrument ID and GEL stamp present on raw data.

BLANK ANALYSIS

Form 1 :

Forms 1 listing submitted for each blank reported in SDG.

Compliance: Each blank contains target compounds at less than or equal to the PQL

Comments:

LABORATORY CONTROL SAMPLE / MATRIX SPIKE AND MATRIX SPIKE DUPLICATE/POST SPIKE

Form 1:

Present for each LCS/LCSD, Post Spke or MS /MSD. MS/MSD in SDG Yes No If No Is it a client sample in Batch Yes No

Entries and headings spot-checked and found to be accurate.

Good correlation between MB,LCS&LCSD or sample, MS&MSD for hits. (Spectra NOT required. Do not submit.)

OTHER DOCUMENTS

Extraction log pages or Prep Log Book for all samples in SDG

Instrument Run Logs (Including ICAL) Sequences

X Isotope ratio criteria

X Client Specific Checklist(s)

MS/MSD Raw Data

Data Exception Reports DER ID(S)

e-mail included in Miscellaneous Section

Standards Traceability

QC Summary

Certificate of Analysis

Certificate of Analysis cover sheet

ISTD SURROGATE raw data confirmations Circle response

Total # Pages =

Total # Pages =

Total # Pages = 1

Total # Pages =

Total # Pages =

CASE NARRATIVE

Total # Pages =

Information in the header and footer found to be correct.

The Sample Analysis statement accurately describes the proper analytical protocol.

Samples were received, prepared, and/or analyzed meeting the method's established technical holding times and procedures. If no is there a re-extract Yes No

There are no discrepancies with regards to Instrument Calibration.

NA Any discrepancies concerning the established quality control criteria for Surrogate recoveries are properly addressed and flagged accordingly.

Comments:

Information concerning the Blank(s) is found to be correct.

Any discrepancies concerning the established quality control criteria for the LCS, LCSD are properly addressed and flagged accordingly.

Comments:

Any discrepancies concerning the established quality control criteria for the PS, MS, MSD

are properly addressed and flagged accordingly. MS/MSD in SDG Yes No If No Is it a client sample in Batch Yes No

Comments:

Information concerning the Retention Times is found to be correct.

Were any dilutions performed on samples contained in this SDG and are they properly explained.

When applicable, are any Data Exception Reports evaluated and its impact on the reported data addressed.

Information concerning Manual Integrations is properly detailed and found to be accurate.

Any discrepancies and/or deficiencies in the reported data are explained in the General Comments section.

Information under System Configuration is appropriate to the analysis performed.

Information in the Instrument Configuration found to be correct.

Case Narrative has been signed and dated by the validator. Edited by

HPLCMS Data Validation Checklist Perchlorate Method: 6850 Modified Level 45

Client: LANL 010/112-771 SDG/Work Order #: 10-1152-1/244218 Reviewed By: Ann 01/14/10

FORM 5 & 6: LABORATORY CONTROL SAMPLE / MATRIX SPIKE AND MATRIX SPIKE DUPLICATE

Total # Pages = 2

☒ A Form 5/Form 6 is present for each LCS, PS or MS/MSD set reported.
☒ LCS, MS/MSD performed at required frequency (1 each per matrix/20 samples max. or SDG).
☒ Entries and header were spot-checked (sample and file IDs, etc.) and found to be accurate.
☒ PS, LCS, Sample, MS or MSD concentrations checked.
☒ Matrix spike data are compliant: 1 MS/MSD set for each SDG 1 LCS/LCSD for each SDG.
☒ Sample(s) designated by the client were used for MS/MSD YES NO N/A
☒ Record the number of %R and RPD failures: %R - 1 LCS 1 LCSD; RPD - 1 LCS/LCSD
☒ %R 1 MS 1 MSD; RPD 1 MS/MSD
☒ %R - 1 PS MS/MSD in SDG Yes No If No Is it a client sample in Batch Yes No

Comments:

FORM 5a: Interference Check Sample (ICS) (Also called Suppression Standard)

Total # = 1

☒ ICS passes criteria +/- 20% YES NO

Comments:

None

FORM 4: Continuing Calibration Blank ICAL Blank SUMMARY

☒ 2 Initial Calibration Blank(s) analyzed with this SDG.
☒ 4 Continuing Calibration Blank(s) analyzed with this SDG.

Total # Pages = 1
 Total # Pages = 1

FORM 5: TUNE

Total # Pages = 1

Form 5 is present for each tune window

Comments:

None No DATA from 01/14

FORM 8: RETENTION TIME AREA SUMMARY

Total # Pages = 9

☒ Entries and headings spot-checked and found to be accurate.
☒ Form 8 present for each sequence.
☒ Did any areas not meet QC Limits? If so, was sample re-analyzed? Yes No If Yes, confirmed Yes No

Comments:

Page 2 missing

FORM 1: ORGANICS ANALYSIS DATA SHEET

Total # Pages = 5

Samples:

☒ A Form 1 is present for each sample extract including REs, DLs, LCSs, MSs, & MSDs according to matrix.
☒ Hit concentrations, detection limits, and headers were checked and verified as accurate.
☒ Entries and headings spot-checked and found to be accurate(sample and file IDs, dates of receipt, extraction & analysis, etc.).
☒ Qualifiers U, J, B, E, and X-Z were assigned correctly.

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1036**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 937093, 937791
Prep Batch Number: 937092, 937789

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
243490001	RE12-10-7288
243490002	RE12-10-7290
243490003	RE12-10-7289
1202005226	Method Blank (MB) (Batch 937093)
1202005227	Laboratory Control Sample (LCS) (Batch 937093)
1202005228	243547002(WST54-10-9921) Matrix Spike (MS) (Batch 937093)
1202005229	243547002(WST54-10-9921) Matrix Spike Duplicate (MSD) (Batch 937093)
243490007	RE12-10-7296
1202006786	Method Blank (MB) (Batch 937791)
1202006787	Laboratory Control Sample (LCS) (Batch 937791)
1202006788	243490007(RE12-10-7296) Matrix Spike (MS) (Batch 937791)
1202006789	243490007(RE12-10-7296) Matrix Spike Duplicate (MSD) (Batch 937791)

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# 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 23.0.

SDG 10-1036-PCB

Page 1 of 4

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(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1084) was selected for the matrix spike and matrix spike duplicate analysis in batch 937093. A Form III and QC raw data and QC raw data are included in the package summarizing the results.

Sample 243490007(RE12-10-7296) was selected for the matrix spike and matrix spike duplicate analysis in batch 937791.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample

collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS. The data reported 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's will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the

Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD2A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD2A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

Certification Statement

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

Review Validation

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

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

Reviewer: Jinni Cao

Date: 1/19/10

Roadmap for LANL 10-1036 PCB

This roadmap was analyzed by jen01212 on 01-04-2010, 09:21.

This roadmap was reviewed by rob01090 on 01-07-2010, 16:11.

This roadmap was packaged by yml on 01-18-2010, 10:21.

This roadmap was validated by jim01140 on 01-19-2010, 08:44.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b019f1901.d	243490001	sample	29-DEC-2009	10:44	10-1036.sub	RE12-10-7288	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b020f2001.d	243490002	sample	29-DEC-2009	10:55	10-1036.sub	RE12-10-7290	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b021f2101.d	243490003	sample	29-DEC-2009	11:06	10-1036.sub	RE12-10-7289	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b034f3401.d	243490007	sample	31-DEC-2009	13:43	10-1036.sub	RE12-10-7296	1.00000	937791	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b019f1901.d	243490001	sample	29-DEC-2009	10:44	10-1036.sub	RE12-10-7288	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b020f2001.d	243490002	sample	29-DEC-2009	10:55	10-1036.sub	RE12-10-7290	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b021f2101.d	243490003	sample	29-DEC-2009	11:06	10-1036.sub	RE12-10-7289	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b034f3401.d	243490007	sample	31-DEC-2009	13:43	10-1036.sub	RE12-10-7296	1.00000	937791	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b012f1201.d	1202005226	mb	29-DEC-2009	09:27	10-1036.sub	PBLK01	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b032f3201.d	1202006786	mb	31-DEC-2009	13:21	10-1036.sub	PBLK02	1.00000	937791	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b013f1301.d	1202005227	lcs	29-DEC-2009	09:38	10-1036.sub	PBLK01LCS	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b033f3301.d	1202006787	lcs	31-DEC-2009	13:32	10-1036.sub	PBLK02LCS	1.00000	937791	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b035f3501.d	1202006788	ms	31-DEC-2009	13:54	10-1036.sub	RE12-10-7296MS	1.00000	937791	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b036f3601.d	1202006789	msd	31-DEC-2009	14:05	10-1036.sub	RE12-10-7296MSD	1.00000	937791	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b012f1201.d	1202005226	mb	29-DEC-2009	09:27	10-1036.sub	PBLK01	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b032f3201.d	1202006786	mb	31-DEC-2009	13:21	10-1036.sub	PBLK02	1.00000	937791	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/122909.b013f1301.d	1202005227	lcs	29-DEC-2009	09:38	10-1036.sub	PBLK01LCS	1.00000	937093	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd2a.i/123109.b033f3301.d	1202006787	lcs	31-DEC-2009	13:32	10-1036.sub	PBLK02LCS	1.00000	937791	UPLOAD BOTH, USE HIGHER

<input type="checkbox"/>	N	/chem/ecod2a.i/123109.b/035b3501.d	1202006788	ms	31-DEC-2009	13:54	10-1036.sub	RE12-10-7296MS	1.00000	937791	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecod2a.i/123109.b/036b3601.d	1202006789	msd	31-DEC-2009	14:05	10-1036.sub	RE12-10-7296MSD	1.00000	937791	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036

Lab Sample ID: 243490001

Client ID: RE12-10-7288

Batch ID: 937093

Run Date: 12/29/2009 10:44

Prep Date: 12/28/2009 20:43

Data File: 019f1901.d

019b1901.d

Date Collected: 12/18/2009 12:00

Date Received: 12/23/2009 10:10

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30.08 g

Column: 1 CLP1

2 CLP2

Matrix: R

%Moisture: 9.2

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	3.66	ug/kg	1.22	3.66	1
11104-28-2	Aroclor-1221	U	3.66	ug/kg	1.22	3.66	1
11141-16-5	Aroclor-1232	U	3.66	ug/kg	1.22	3.66	1
53469-21-9	Aroclor-1242	U	3.66	ug/kg	1.22	3.66	1
12672-29-6	Aroclor-1248	U	3.66	ug/kg	1.22	3.66	1
11097-69-1	Aroclor-1254	U	3.66	ug/kg	1.22	3.66	1
11096-82-5	Aroclor-1260	U	3.66	ug/kg	1.22	3.66	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490003

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 9.9
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	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490002

Client ID: RE12-10-7290
Batch ID: 937093
Run Date: 12/29/2009 10:55
Prep Date: 12/28/2009 20:43
Data File: 020f2001.d
020b2001.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.14 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.1
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490007

Client ID: RE12-10-7296
Batch ID: 937791
Run Date: 12/31/2009 13:43
Prep Date: 12/31/2009 08:48
Data File: 034f3401.d
034b3401.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 8
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	3.62	ug/kg	1.21	3.62	1
11104-28-2	Aroclor-1221	U	3.62	ug/kg	1.21	3.62	1
11141-16-5	Aroclor-1232	U	3.62	ug/kg	1.21	3.62	1
53469-21-9	Aroclor-1242	U	3.62	ug/kg	1.21	3.62	1
12672-29-6	Aroclor-1248	U	3.62	ug/kg	1.21	3.62	1
11097-69-1	Aroclor-1254	U	3.62	ug/kg	1.21	3.62	1
11096-82-5	Aroclor-1260	U	3.62	ug/kg	1.21	3.62	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1036

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 #
1202005226	MB for batch 937092	65	69	71	81
1202005227	LCS for batch 937092	66	69	70	79
243490001	RE12-10-7288	60	50	70	74
243490002	RE12-10-7290	57	60	60	68
243490003	RE12-10-7289	66	58	68	76
1202006786	MB for batch 937789	72	77	81	88
1202006787	LCS for batch 937789	72	77	82	87
243490007	RE12-10-7296	61	64	59	70
1202006788	RE12-10-7296MS	53	55	52	60
1202006789	RE12-10-7296MSD	59	62	55	67

Surrogate**Acceptance Limits**

4CMX = 4cmx

(34%-105%)

DCB = Decachlorobiphenyl

(33%-115%)

* 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: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937092

Matrix: SOIL

Lab Sample ID: 1202005227

Instrument: ECD2A.I

Analysis Date: 12/29/2009 09:38

Dilution: 1

Analyst: JAOC

Prep Batch ID: 937092

Inj. Vol: 1 uL

Batch ID: 937093

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	21.1	63	41-110
11096-82-5	LCS Aroclor-1260	33.3	0.0	26.3	79	48-110

PCB

Page 1 of 1

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1036

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 937789

Matrix: SOIL

Lab Sample ID:1202006787

Instrument: ECD2A.I

Analysis Date: 12/31/2009 13:32

Dilution: 1

Analyst: JAOC

Prep Batch ID 937789

Inj. Vol: 1 uL

Batch ID: 937791

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	23.0	69	41-110
11096-82-5	LCS Aroclor-1260	33.3	0.0	30.4	91	48-110

PCB

Page 1 of 2

**Quality Control Summary
Spike Recovery Report**

SDG Number: 10-1036

Sample Type: Matrix Spike

Client ID: RE12-10-7296MS

Matrix: R

Lab Sample ID:1202006788

%Moisture: 8

Instrument: ECD2A.I

Analysis Date: 12/31/2009 13:54

Dilution: 1

Analyst: JAOC

Prep Batch ID: 937789

Inj. Vol: 1 uL

Batch ID: 937791

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	36.2	0.00 U	19.5	54	23-117
11096-82-5	MS Aroclor-1260	36.2	0.00 U	24.8	68	27-116

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1036

Sample Type: Matrix Spike Duplicate

Client ID: RE12-10-7296MSD

Matrix: R

Lab Sample ID:1202006789

%Moisture: 8

Instrument: ECD2A.I

Analysis Date: 12/31/2009 14:05

Dilution: 1

Analyst: JAOC

Prep Batch ID: 937789

Inj. Vol: 1 uL

Batch ID: 937791

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD	Acceptance Limits
12674-11-2	MSD Aroclor-1016	36.2	0.00 U	21.3	59	23-117	9	0-30
11096-82-5	MSD Aroclor-1260	36.2	0.00 U	26.3	73	27-116	6	0-30

PCB

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1084

Sample Type: Matrix Spike

Client ID: WST54-10-9921MS

Matrix: S

Lab Sample ID:1202005228

%Moisture: 11.1

Instrument: ECD2A.I

Analysis Date: 12/29/2009 13:53

Dilution: 1

Analyst: JAOC

Prep Batch ID 937092

Inj. Vol: 1 uL

Batch ID: 937093

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	37.3	0.00 U	22.4	60	23-117
11096-82-5	MS Aroclor-1260	37.3	0.00 U	29.7	80	27-116

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1084

Sample Type: Matrix Spike Duplicate

Client ID: WST54-10-9921MSD

Matrix: S

Lab Sample ID:1202005229

%Moisture: 11.1

Instrument: ECD2A.I

Analysis Date: 12/29/2009 14:04

Dilution: 1

Analyst: JAOC

Pren Batch II 937092

Inj. Vol: 1 uL

Batch ID: 937093

CAS No	Paramname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD	Acceptance Limits
12674-11-2	MSD Aroclor-1016	37.3	0.00 U	24.1	65	23-117	7	0-30
11096-82-5	MSD Aroclor-1260	37.3	0.00 U	30.7	82	27-116	3	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1036	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 937092	Instrument ID:	ECD2A.I_2	Data File:	012b1201-1.d
Lab Sample ID:	1202005226		ECD2A.I_1		012f1201-1.d
Column:	CLP2	Prep Date:	12/28/2009 20:43	Analyzed:	12/29/09 09:27
	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 937092	1202005227	013f1301-1.d 013b1301-1.d	12/29/09	0938
02 RE12-10-7288	243490001	019f1901.d 019b1901.d	12/29/09	1044
03 RE12-10-7290	243490002	020f2001.d 020b2001.d	12/29/09	1055
04 RE12-10-7289	243490003	021f2101.d 021b2101.d	12/29/09	1106

Method Blank Summary

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SDG Number:	10-1036	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 937789	Instrument ID:	ECD2AJ_2	Data File:	032b3201.d
Lab Sample ID:	1202006786		ECD2AJ_1		032f3201.d
Column:	CLP2	Prep Date:	12/31/2009 08:48	Analyzed:	12/31/09 13:21
	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 937789	1202006787	033f3301.d 033b3301.d	12/31/09	1332
02 RE12-10-7296	243490007	034f3401.d 034b3401.d	12/31/09	1343
03 RE12-10-7296MS	1202006788	035f3501.d 035b3501.d	12/31/09	1354
04 RE12-10-7296MSD	1202006789	036f3601.d 036b3601.d	12/31/09	1405

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 243490001

Client ID: RE12-10-7288
Batch ID: 937093
Run Date: 12/29/2009 10:44
Prep Date: 12/28/2009 20:43
Data File: 019f1901.d
019b1901.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 9.2
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	3.66	ug/kg	1.22	3.66	1
11104-28-2	Aroclor-1221	U	3.66	ug/kg	1.22	3.66	1
11141-16-5	Aroclor-1232	U	3.66	ug/kg	1.22	3.66	1
53469-21-9	Aroclor-1242	U	3.66	ug/kg	1.22	3.66	1
12672-29-6	Aroclor-1248	U	3.66	ug/kg	1.22	3.66	1
11097-69-1	Aroclor-1254	U	3.66	ug/kg	1.22	3.66	1
11096-82-5	Aroclor-1260	U	3.66	ug/kg	1.22	3.66	1

Data File: /chem/ecd2a.i/122909.b/019f1901.d
Report Date: 30-Dec-2009 08:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/019f1901.d

Lab Smp Id: 243490001

Client Smp ID: RE12-10-7288

Inj Date : 29-DEC-2009 10:44

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243490001|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7288|||

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 19

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1036.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	9.17790	% Moisture

Cpnd Variable

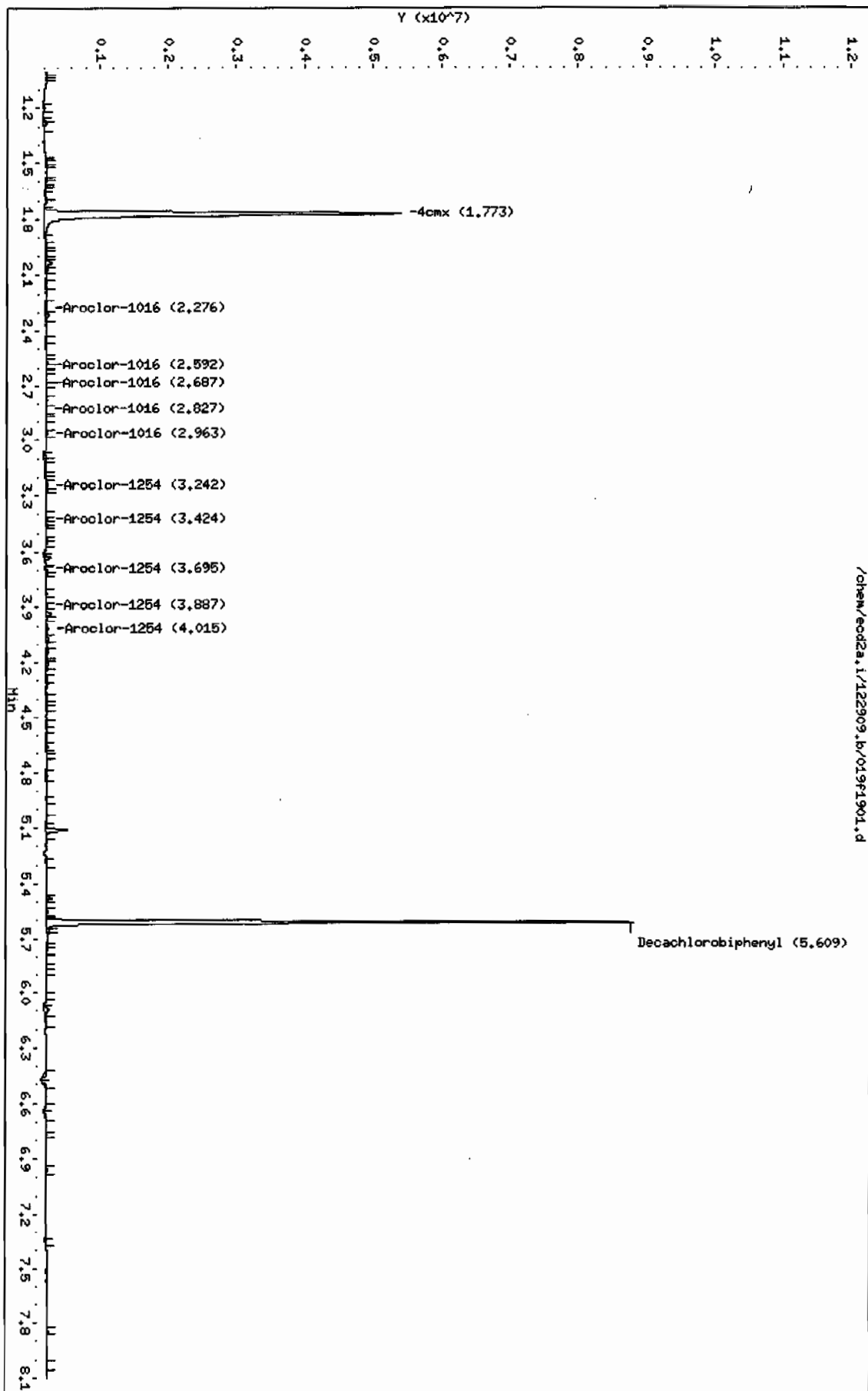
Local Compound Variable

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.773	1.771	0.002	7500403	120.408	4.4	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.609	5.607	0.002	7578663	140.056	5.1	80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/019f1901.d
Date: 29-DEC-2009 10:44
Client ID: RE12-10-7288
Sample Info: 1243490001141
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/019b1901.d

Lab Smp Id: 243490001

Client Smp ID: RE12-10-7288

Inj Date : 29-DEC-2009 10:44

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243490001|1|

Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7288|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:44 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 19

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1036.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	30.08000	Weight of sample extracted (g)
M	9.17790	% 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	
2.070	2.068	0.002	12962068	100.234	3.7 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.301	6.300	0.001	16716235	148.216	5.4 80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.k/019b1901.d

Date : 29-DEC-2009 10:44

Client ID: RE12-10-7268

Sample Info: 124349000111

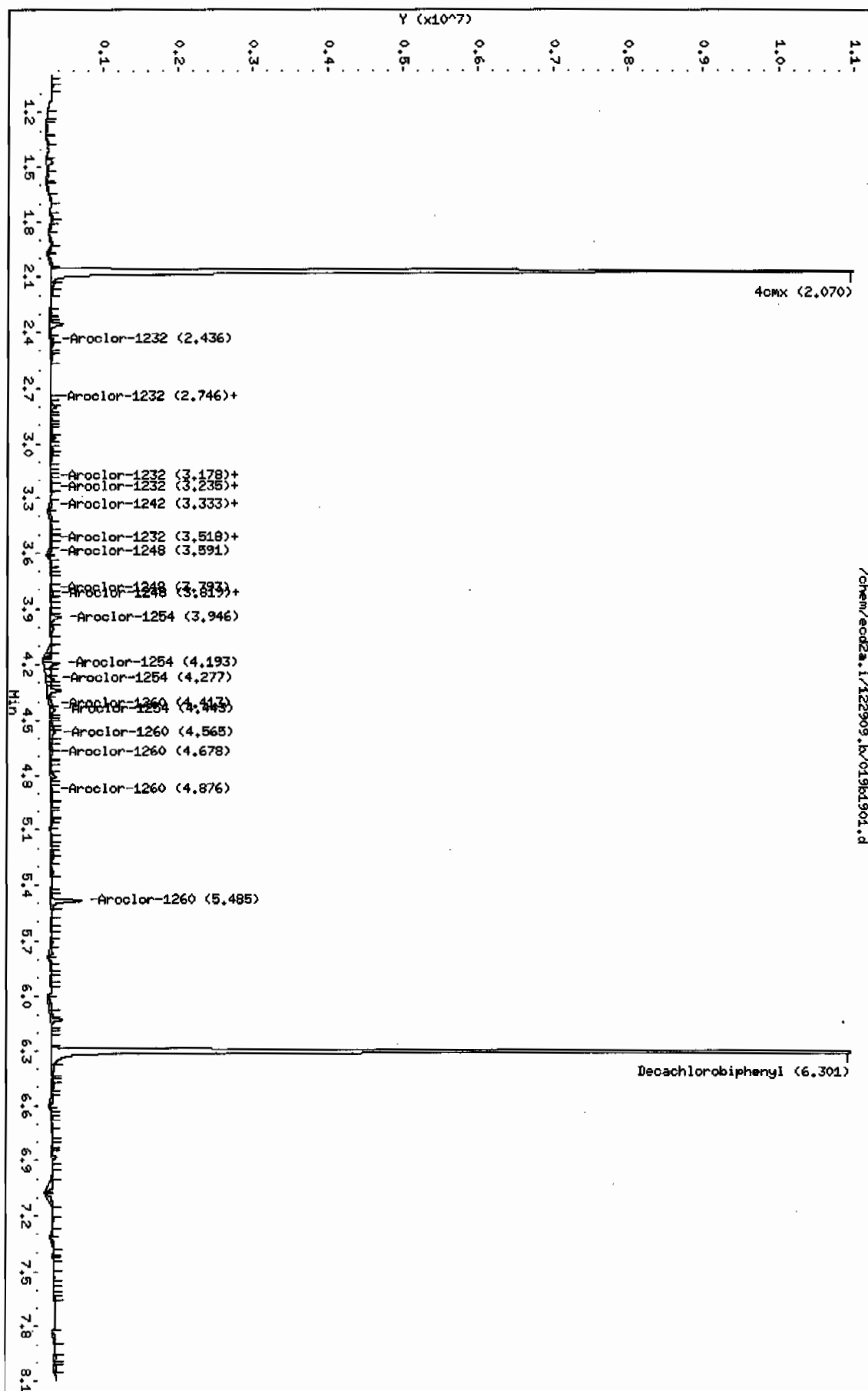
Volume Injected (ul): 1.0

Column Phase: CLP2

Instrument: eod2a.i

Operator: JROC

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490003

Client ID: RE12-10-7289
Batch ID: 937093
Run Date: 12/29/2009 11:06
Prep Date: 12/28/2009 20:43
Data File: 021f2101.d
021b2101.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 9.9
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	3.69	ug/kg	1.23	3.69	1
11104-28-2	Aroclor-1221	U	3.69	ug/kg	1.23	3.69	1
11141-16-5	Aroclor-1232	U	3.69	ug/kg	1.23	3.69	1
53469-21-9	Aroclor-1242	U	3.69	ug/kg	1.23	3.69	1
12672-29-6	Aroclor-1248	U	3.69	ug/kg	1.23	3.69	1
11097-69-1	Aroclor-1254	U	3.69	ug/kg	1.23	3.69	1
11096-82-5	Aroclor-1260	U	3.69	ug/kg	1.23	3.69	1

Data File: /chem/ecd2a.i/122909.b/021f2101.d
Report Date: 30-Dec-2009 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/021f2101.d
Lab Smp Id: 243490003 Client Smp ID: RE12-10-7289
Inj Date : 29-DEC-2009 11:06
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243490003|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7289|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	9.89310	% Moisture

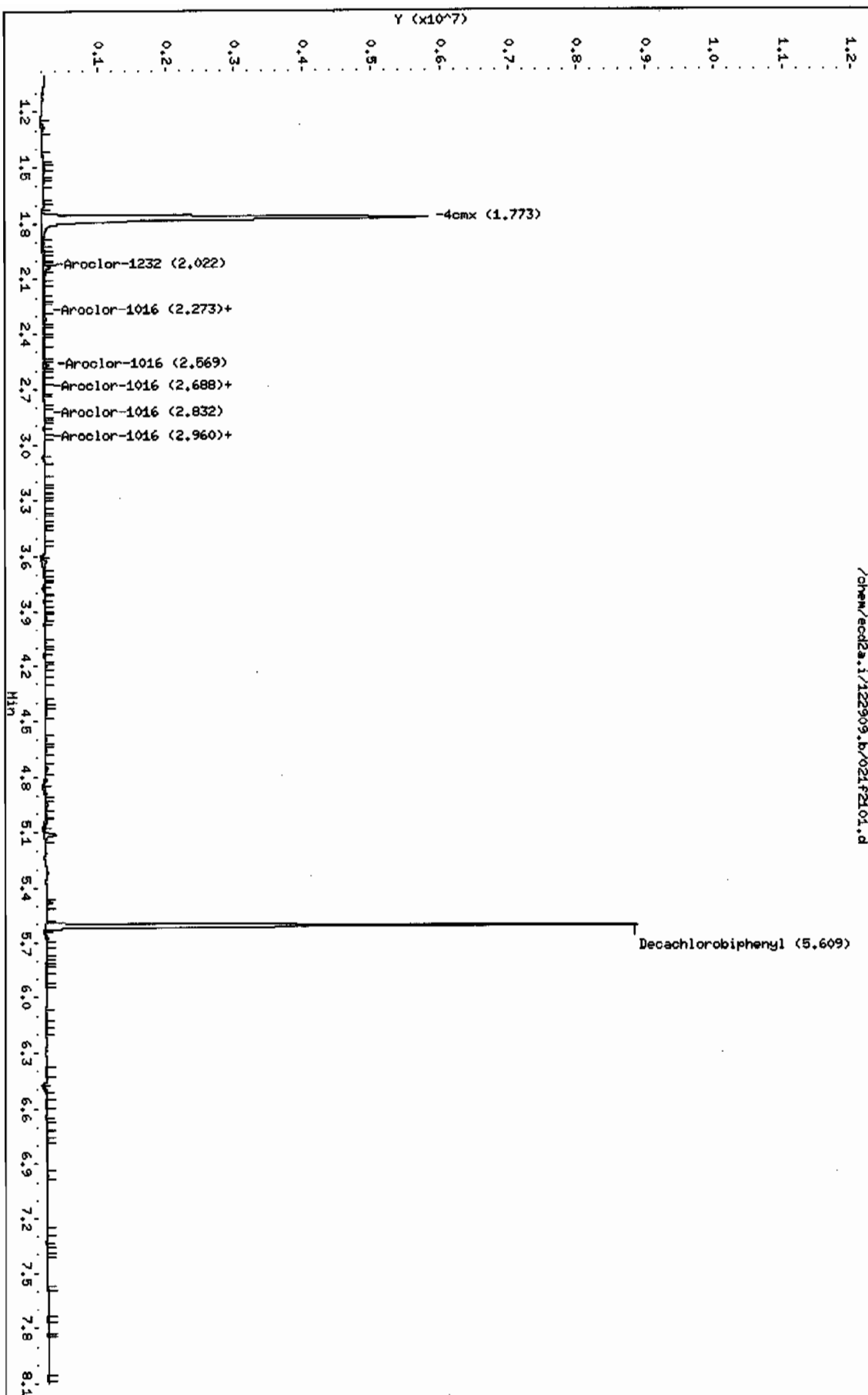
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
11.4cmx	1.773	1.771	0.002	8194063	131.544	4.8 80.00- 120.00	100.00
CAS #: 877-09-8							
12 Decachlorobiphenyl	5.609	5.607	0.002	7338520	135.618	5.0 80.00- 120.00	100.00
CAS #: 2051-24-3							

Data File: /chem/ecod2a.1/122909.b/021f2101.d
Date: 29-DEC-2009 11:06
Client ID: RE12-10-7289
Sample Info: 12434900311
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod2a.1
Operator: JAO
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/021b2101.d
Report Date: 29-Dec-2009 14:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/021b2101.d
Lab Smp Id: 243490003 Client Smp ID: RE12-10-7289
Inj Date : 29-DEC-2009 11:06
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243490003|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7289|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:44 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	9.89310	% 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	
2.070	2.068	0.002	14891575 115.155	4.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.301	6.300	0.001	17191921 152.434	5.6	80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/021b2101.d

Date: 29-DEC-2009 11:06

Client ID: RE12-10-7289

Sample Info: 124349003141

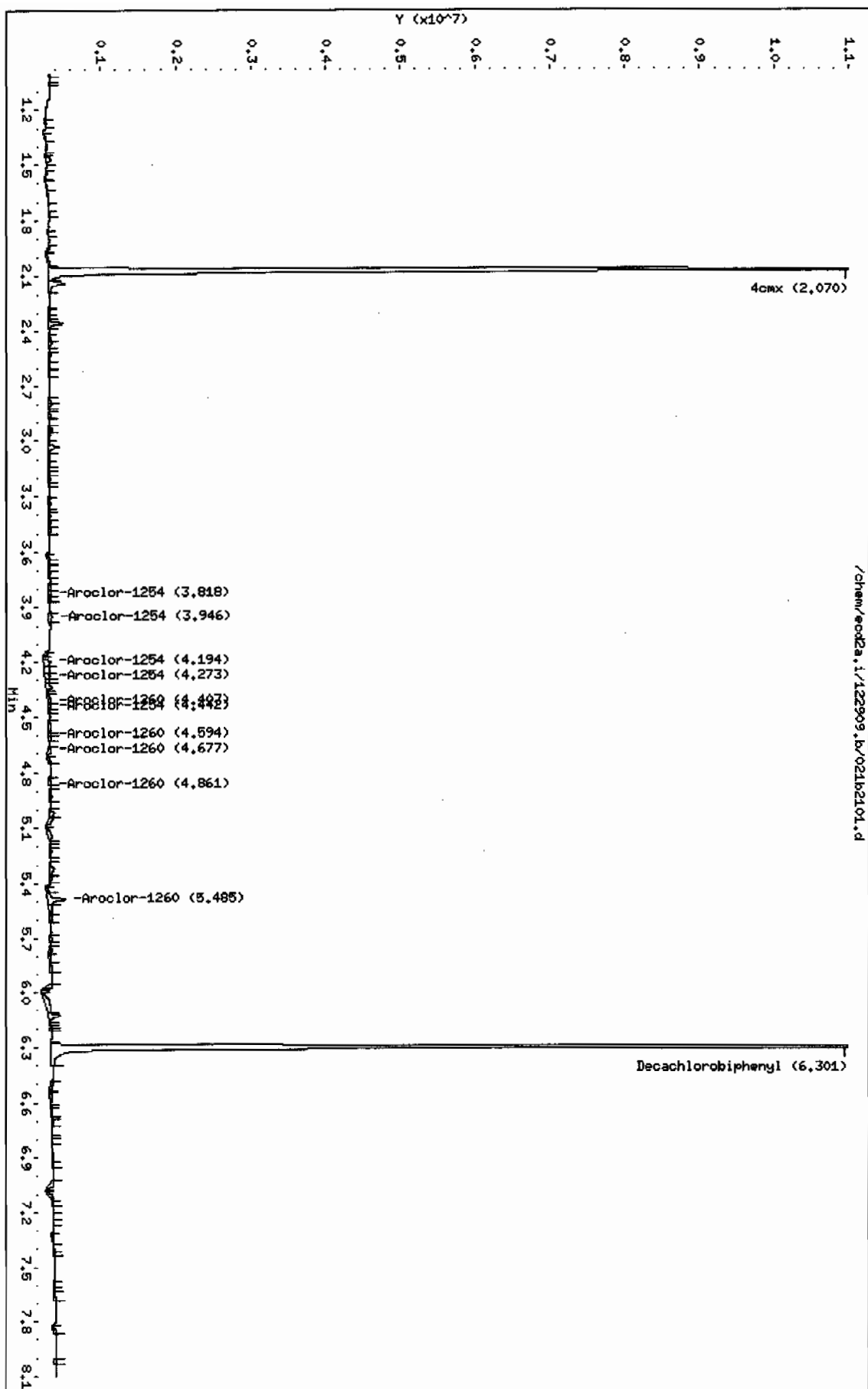
Volume Injected (uL): 1.0

Column phase: CLP2

Instrument: eod2a.i

Operator: JMO

Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 243490002

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.14 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7290
Batch ID: 937093
Run Date: 12/29/2009 10:55
Prep Date: 12/28/2009 20:43
Data File: 020f2001.d
020b2001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecd2a.i/122909.b/020f2001.d
Report Date: 29-Dec-2009 14:40

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/020f2001.d
Lab Smp Id: 243490002 Client Smp ID: RE12-10-7290
Inj Date : 29-DEC-2009 10:55
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243490002|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7290|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	3.11490	% 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							
1.773	1.771	0.002	7161343	114.965	3.9	80.00- 120.00	100.00

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl							
5.609	5.607	0.002	6484396	119.834	4.1	80.00- 120.00	100.00

Data File: /chem/ecod2a.i/122909.lb/020f2001.d

Date: 29-DEC-2009 10:55

Client ID: RE12-10-7290

Sample Info: 124349002121

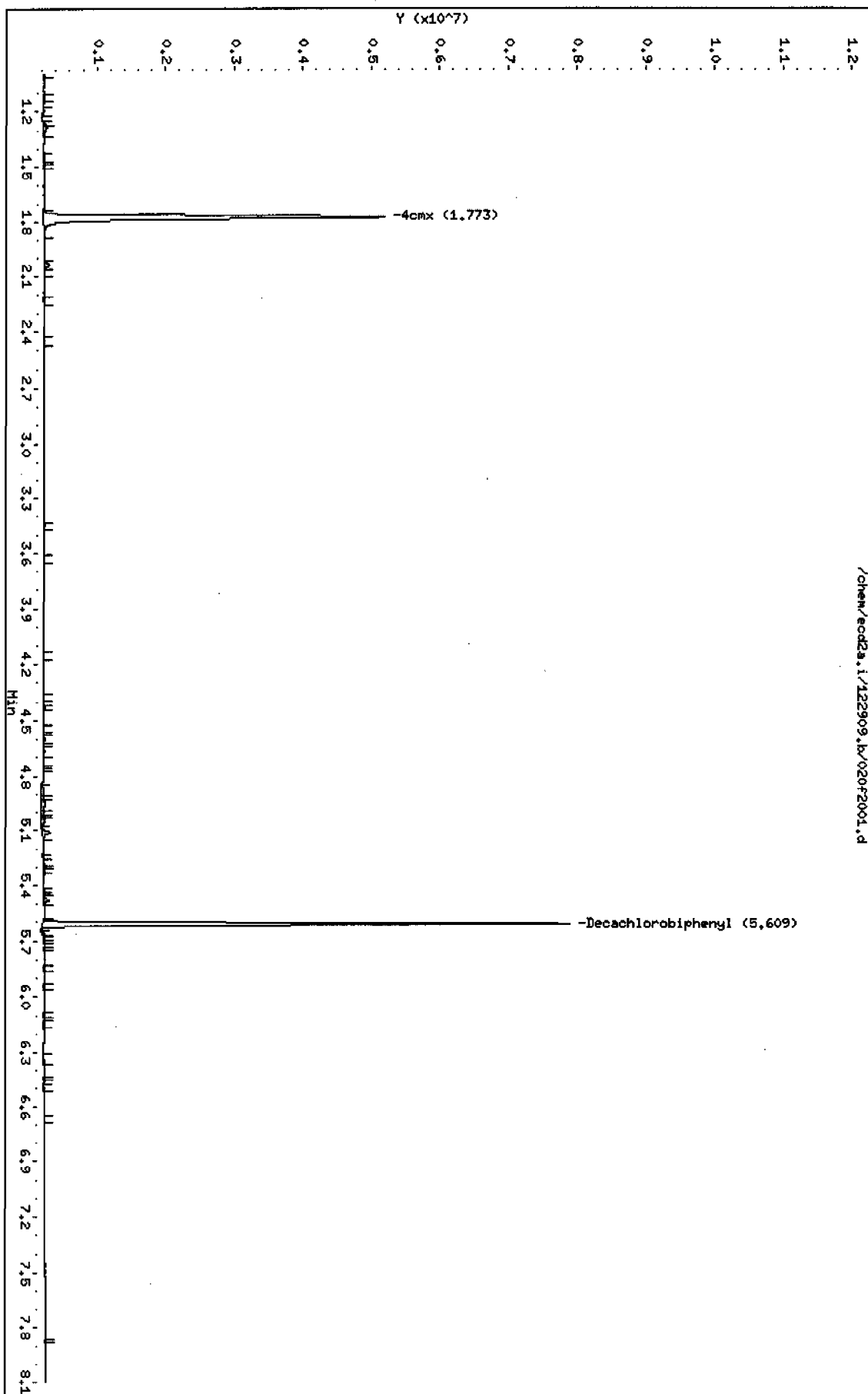
Volume Injected (uL): 1.0

Column phase: CLP1

Instrument: ecod2a.i

Operator: JROC

Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/020b2001.d
Report Date: 29-Dec-2009 14:45

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/020b2001.d
Lab Smp Id: 243490002 Client Smp ID: RE12-10-7290
Inj Date : 29-DEC-2009 10:55
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243490002|1|
Misc Info : |ECD82P_1S|937093|SVA|LANL|SOIL|RE12-10-7290|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:44 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.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	30.14000	Weight of sample extracted (g)
M	3.11490	% Moisture

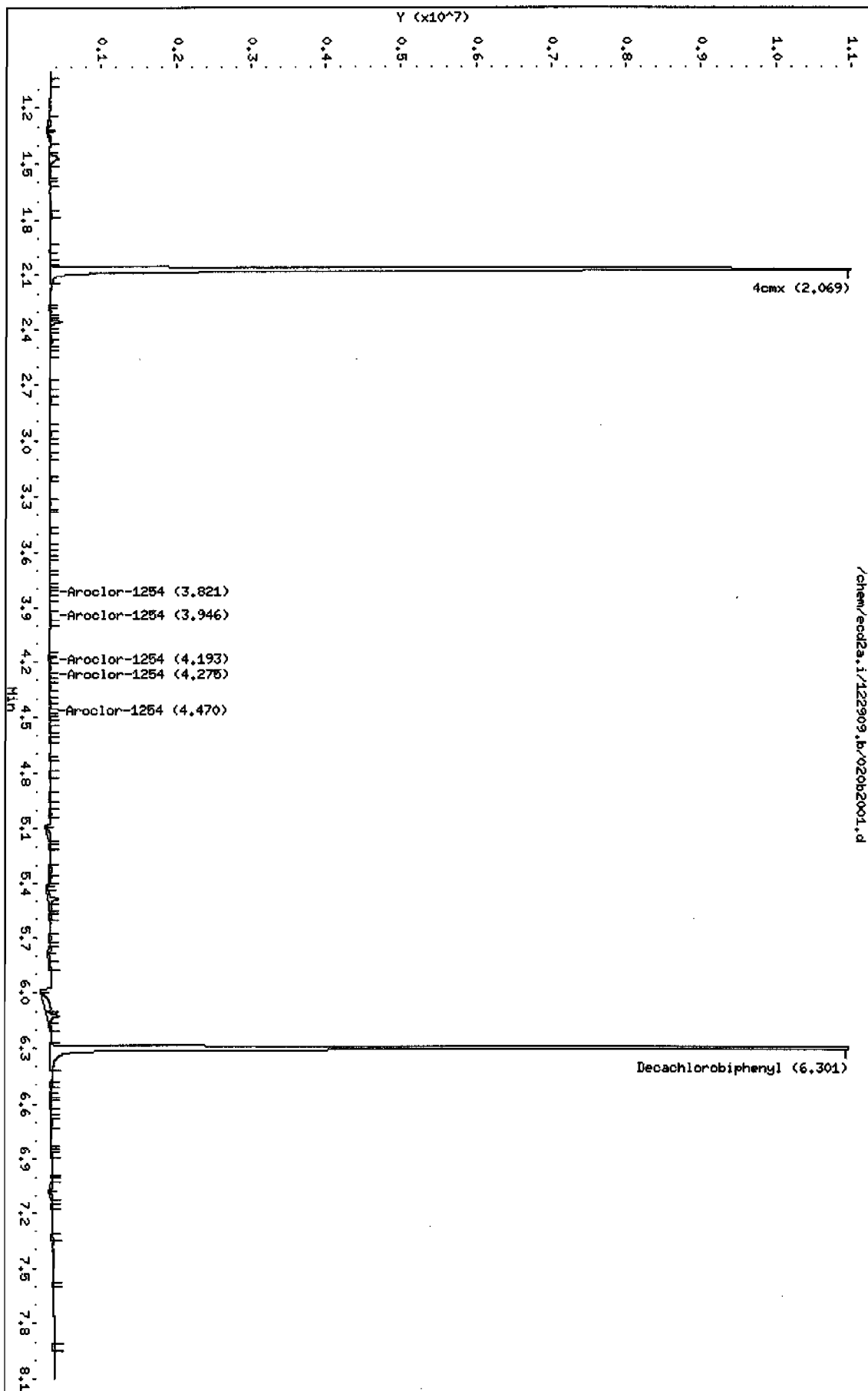
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.069	2.068	0.001	15399301	119.081	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.301	6.300	0.001	15244310	135.165	4.6 80.00- 120.00	100.00

Data File: /chem/ecd2a.i/122909.b/02062001.d
Date: 29-DEC-2009 10:55
Client ID: RE12-10-7290
Sample Info: 12434900211
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JPOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1036
Lab Sample ID: 243490007

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.J
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 8
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE12-10-7296
Batch ID: 937791
Run Date: 12/31/2009 13:43
Prep Date: 12/31/2009 08:48
Data File: 034f3401.d
034b3401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.62	ug/kg	1.21	3.62	1
11104-28-2	Aroclor-1221	U	3.62	ug/kg	1.21	3.62	1
11141-16-5	Aroclor-1232	U	3.62	ug/kg	1.21	3.62	1
53469-21-9	Aroclor-1242	U	3.62	ug/kg	1.21	3.62	1
12672-29-6	Aroclor-1248	U	3.62	ug/kg	1.21	3.62	1
11097-69-1	Aroclor-1254	U	3.62	ug/kg	1.21	3.62	1
11096-82-5	Aroclor-1260	U	3.62	ug/kg	1.21	3.62	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/034f3401.d
Lab Smp Id: 243490007 Client Smp ID: RE12-10-7296
Inj Date : 31-DEC-2009 13:43
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |243490007|1|
Misc Info : |ECD82P_1S|937791|SVA|LANL|SOIL|RE12-10-7296|||
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.99040	% Moisture

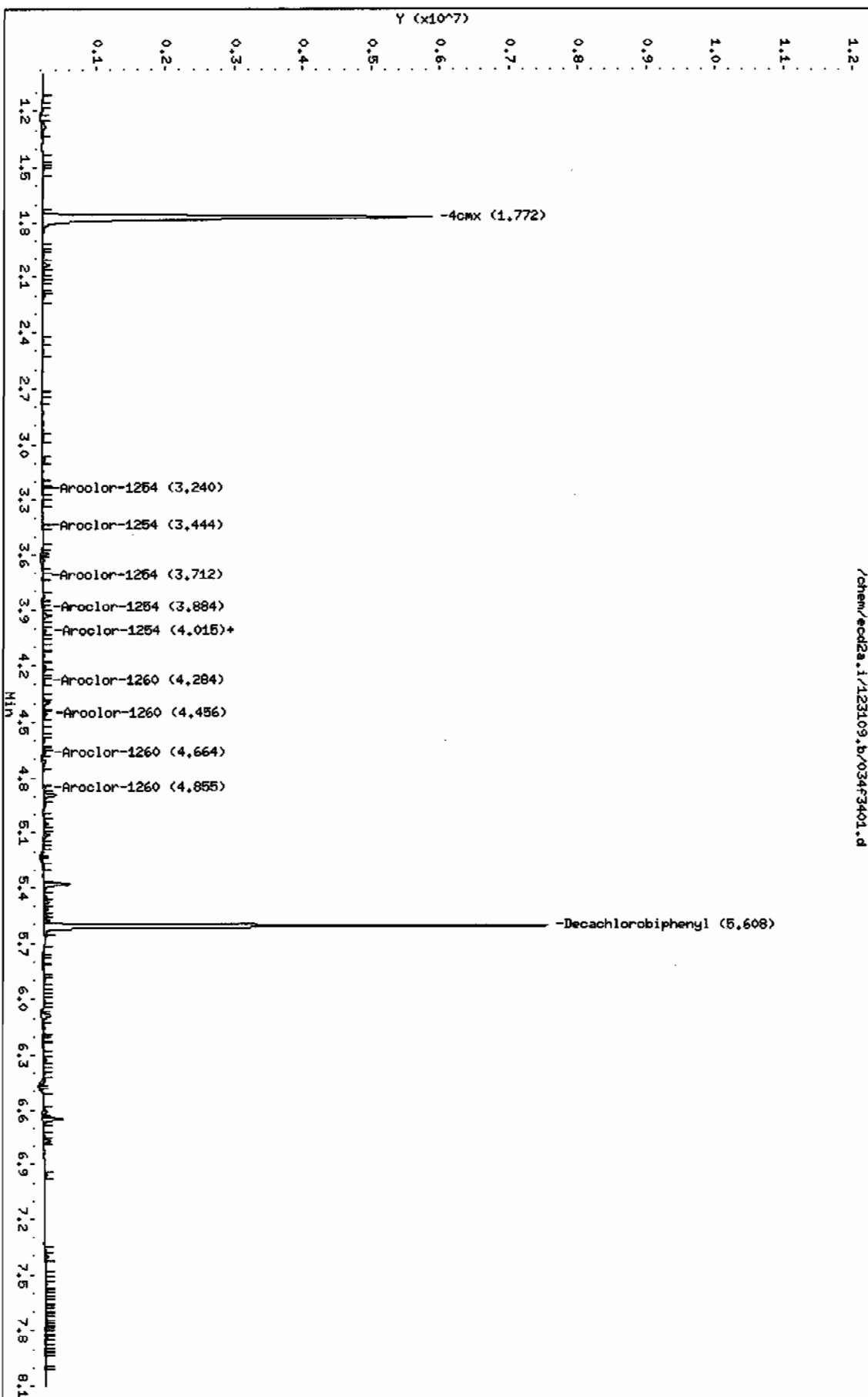
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ug/L)	(ug/Kg)		
\$ 11 4cmx				CAS #: 877-09-8		
1.772	1.772	0.000	7589973 121.846	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.608	5.608	0.000	6422957 118.698	4.3	80.00- 120.00	100.00

Data File: /chem/eod2a.i/123109.b/034f3401.d
Date: 31-DEC-2009 13:43
Client ID: RE12-10-7296
Sample Info: 1243490007111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd2a.i/123109.b/034b3401.d
Report Date: 04-Jan-2010 08:18

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/034b3401.d

Lab Smp Id: 243490007

Client Smp ID: RE12-10-7296

Inj Date : 31-DEC-2009 13:43

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |243490007|1|

Misc Info : |ECD82P_1S|937791|SVA|LANL|SOIL|RE12-10-7296|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 34

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1036.sub

Target Version: 3.50

Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.99040	% Moisture

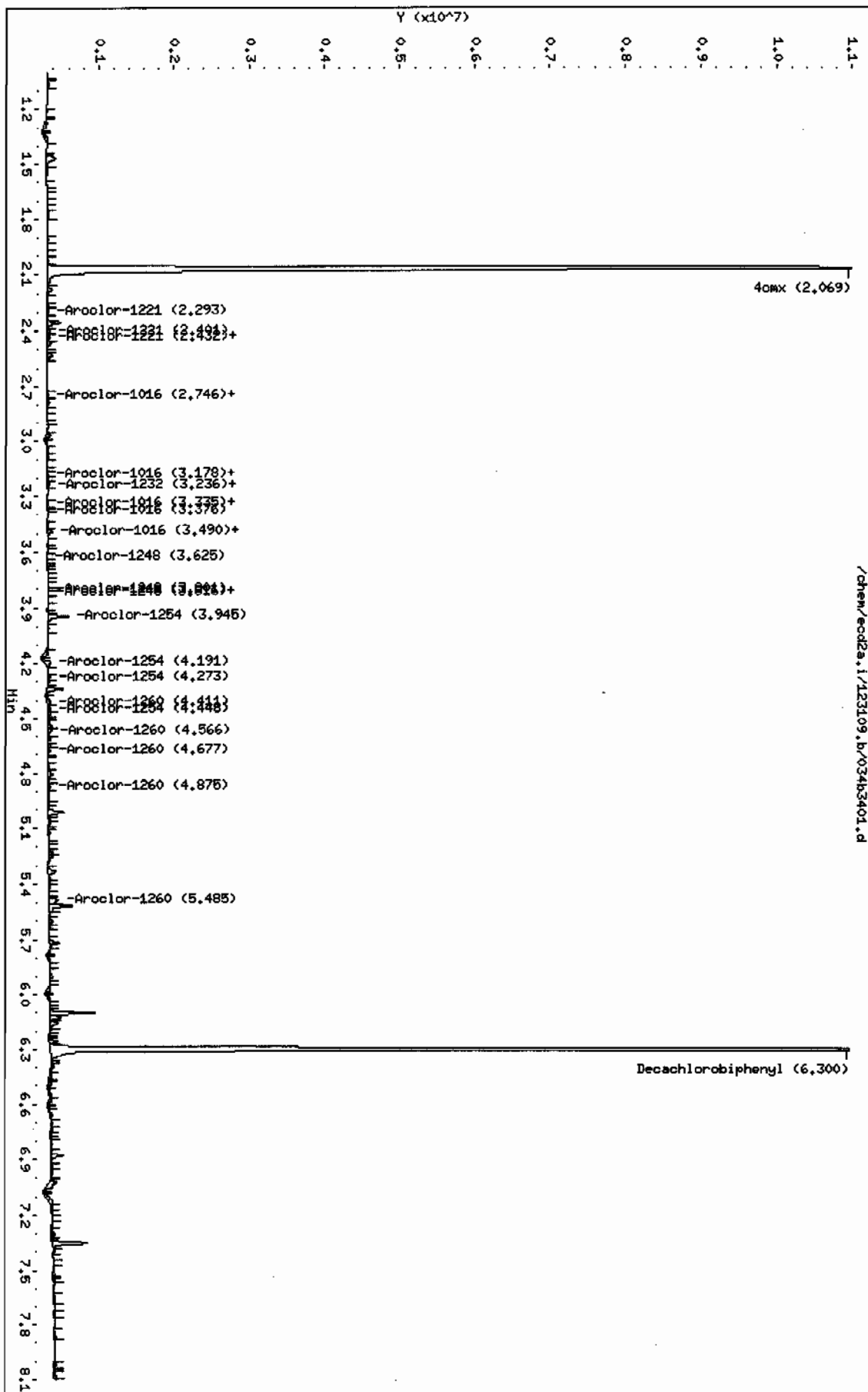
Cpnd Variable

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		
2.069	2.069	0.000	16647498 128.733	4.7	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.300	6.300	0.000	15727311 139.448	5.0	80.00- 120.00	100.00

Data File: /chem/ecd2a.i/123109.b/034b3401.d
 Date: 31-DEC-2009 13:43
 Client ID: RE12-10-7296
 Sample Info: 124349000711
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd2a.i
 Operator: JPOC
 Column diameter: 0.25



STANDARDS DATA

Report Date: 31-Dec-2009 09:15

Calibration History

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008f0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035f3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011f1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023f2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003f0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011f1101.d

Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009f0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036f3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012f1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024f2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004f0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012f1201.d

Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010f1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037f3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013f1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025f2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005f0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013f1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014f1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026f2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006f0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014f1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010f1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038f3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011f1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007f0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006f0601.d

Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012f1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039f3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015f1501.d

12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027f2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007f0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015f1501.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 14:26	AR1660	/chem/ecd2a.i/122909.b/039f3901.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 13:19	AR1660	/chem/ecd2a.i/122909.b/033f3301.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 11:17	AR1660	/chem/ecd2a.i/122909.b/022f2201.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:50	AR1268	/chem/ecd2a.i/122909.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:39	AR1262	/chem/ecd2a.i/122909.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:28	AR1221	/chem/ecd2a.i/122909.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 08:17	AR1232	/chem/ecd2a.i/122909.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:59	AR1248	/chem/ecd2a.i/122909.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:48	AR1242	/chem/ecd2a.i/122909.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:37	AR1254	/chem/ecd2a.i/122909.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
29-DEC-2009 07:26	AR1660	/chem/ecd2a.i/122909.b/002f0201.d

Report Date: 31-Dec-2009 09:15

Calibration History

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008b0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035b3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011b1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023b2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003b0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011b1101.d

Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009b0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036b3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012b1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024b2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004b0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012b1201.d

Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010b1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037b3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013b1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025b2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005b0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013b1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014b1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026b2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006b0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014b1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010b1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038b3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011b1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007b0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006b0601.d

Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012b1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039b3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015b1501.d
12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027b2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007b0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015b1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 14:26 AR1660	/chem/ecd2a.i/122909.b/039b3901.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 13:19 AR1660	/chem/ecd2a.i/122909.b/033b3301.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 11:17 AR1660	/chem/ecd2a.i/122909.b/022b2201.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 08:17 AR1232	/chem/ecd2a.i/122909.b/006b0601.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 07:59 AR1248	/chem/ecd2a.i/122909.b/005b0501.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 07:48 AR1242	/chem/ecd2a.i/122909.b/004b0401.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 07:37 AR1254	/chem/ecd2a.i/122909.b/003b0301.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 07:26 AR1660	/chem/ecd2a.i/122909.b/002b0201.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 08:50 AR1268	/chem/ecd2a.i/122909.b/009b0901.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 08:39 AR1262	/chem/ecd2a.i/122909.b/008b0801.d	
+-----+-----+-----+-----+-----+-----+		
Ccal Level: 4 , Ccal Amount: 1000		
+-----+-----+-----+-----+-----+-----+		
29-DEC-2009 08:28 AR1221	/chem/ecd2a.i/122909.b/007b0701.d	
+-----+-----+-----+-----+-----+-----+		

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 29-Dec-2009 14:49 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      500.000000
Initial:End Threshold        250.000000
Initial:Area Threshold      10000.000000
Initial:P-P Resolution       1.000000
Initial:Bunch Factor         2.000000
Initial:Negative Peaks       OFF
Initial:Tension              1.100000
      8.500:Bunch Factor     2.000000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	2.273	2.243-2.303	2.238e+03
	2.597	2.567-2.627	4.685e+03
	2.688	2.658-2.718	1.901e+03
	2.823	2.793-2.853	9.760e+02
	2.974	2.944-3.004	1.458e+03
2 Aroclor-1221	1.436	1.406-1.466	4.641e+02
	1.898	1.868-1.928	6.570e+02
	1.997	1.967-2.027	3.467e+02
3 Aroclor-1232	2.027	1.997-2.057	1.165e+03
	2.277	2.247-2.307	9.314e+02
	2.693	2.663-2.723	8.004e+02
	2.736	2.706-2.766	5.102e+02
4 Aroclor-1242	2.981	2.951-3.011	5.840e+02
	2.274	2.244-2.304	1.733e+03
	2.689	2.659-2.719	1.484e+03
	2.731	2.701-2.761	9.058e+02
	2.824	2.794-2.854	7.269e+02
5 Aroclor-1248	2.976	2.946-3.006	1.120e+03
	2.825	2.795-2.855	1.527e+03
	2.975	2.945-3.005	2.027e+03
	3.035	3.005-3.065	1.571e+03
	3.270	3.240-3.300	2.218e+03
	3.424	3.394-3.454	1.913e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.242	3.212-3.272	2.080e+03
	3.424	3.394-3.454	2.772e+03
	3.694	3.664-3.724	3.742e+03
	3.886	3.856-3.916	2.783e+03
	4.015	3.985-4.045	2.760e+03
7 Aroclor-1260	4.014	3.984-4.044	4.165e+03
	4.286	4.256-4.316	2.591e+03
	4.451	4.421-4.481	2.631e+03
	4.664	4.634-4.694	6.088e+03
	4.853	4.823-4.883	2.942e+03
8 Aroclor-1262	3.824	3.794-3.854	2.273e+03
	4.017	3.987-4.047	3.072e+03
	4.288	4.258-4.318	4.004e+03
	4.453	4.423-4.483	3.573e+03
	4.856	4.826-4.886	2.501e+03
9 Aroclor-1268	4.884	4.854-4.914	9.392e+03
	4.910	4.880-4.940	9.361e+03
	5.043	5.013-5.073	7.073e+03
	5.281	5.251-5.311	3.056e+03
	5.478	5.448-5.508	2.201e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.771	1.741-1.801	6.229e+04
\$ 12 Decachlorobiphenyl	5.607	5.577-5.637	5.411e+04
13 4,4'-DDT	4.229	4.209-4.249	5.006e+04
14 4,4'-DDD	4.036	4.016-4.056	7.298e+04
15 4,4'-DDE	3.632	3.612-3.652	7.426e+04

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 29-Dec-2009 14:47 Number of CpnDs : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	1000.000000
Initial:End Threshold	500.000000
Initial:Area Threshold	500.000000
Initial:P-P Resolution	0.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	OFF
Initial:Tension	4.000000
4.200:Tension	1.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.745	2.715-2.775	4.538e+03
	3.179	3.149-3.209	3.602e+03
	3.330	3.300-3.360	2.053e+03
	3.359	3.329-3.389	2.137e+03
	3.518	3.488-3.548	2.871e+03
2 Aroclor-1221	2.292	2.262-2.322	1.263e+03
	2.397	2.367-2.427	7.739e+02
	2.442	2.412-2.472	3.051e+03
3 Aroclor-1232	2.442	2.412-2.472	2.061e+03
	2.747	2.717-2.777	1.960e+03
	3.183	3.153-3.213	1.498e+03
	3.254	3.224-3.284	9.309e+02
4 Aroclor-1242	3.521	3.491-3.551	1.107e+03
	2.746	2.716-2.776	3.445e+03
	3.181	3.151-3.211	2.681e+03
	3.253	3.223-3.283	1.637e+03
	3.331	3.301-3.361	1.508e+03
5 Aroclor-1248	3.518	3.488-3.548	2.145e+03
	3.332	3.302-3.362	3.282e+03
	3.519	3.489-3.549	4.187e+03
	3.605	3.575-3.635	4.451e+03
	3.795	3.765-3.825	4.697e+03
	3.824	3.794-3.854	5.389e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.818	3.788-3.848	4.985e+03
	3.959	3.929-3.989	5.799e+03
	4.196	4.166-4.226	4.023e+03
	4.277	4.247-4.307	7.731e+03
	4.440	4.410-4.470	5.608e+03
7 Aroclor-1260	4.414	4.384-4.444	5.767e+03
	4.565	4.535-4.595	7.124e+03
	4.677	4.647-4.707	4.819e+03
	4.874	4.844-4.904	5.632e+03
	5.500	5.470-5.530	9.038e+03
8 Aroclor-1262	4.415	4.385-4.445	4.703e+03
	4.567	4.537-4.597	5.853e+03
	4.875	4.845-4.905	8.946e+03
	5.076	5.046-5.106	7.772e+03
	5.254	5.224-5.284	1.672e+04
9 Aroclor-1268	5.498	5.468-5.528	2.032e+04
	5.531	5.501-5.561	2.018e+04
	5.703	5.673-5.733	1.496e+04
	5.903	5.873-5.933	6.438e+03
	6.127	6.097-6.157	4.409e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.068	2.038-2.098	1.293e+05
\$ 12 Decachlorobiphenyl	6.300	6.270-6.330	1.128e+05
13 4,4'-DDT	4.814	4.794-4.834	8.705e+04
14 4,4'-DDD	4.600	4.580-4.620	1.499e+05
15 4,4'-DDE	4.195	4.175-4.215	1.504e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Cal Date : 29-Dec-2009 14:49 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008f0801.d
 Level 2: /chem/ecd2a.i/120209.b/009f0901.d
 Level 3: /chem/ecd2a.i/120209.b/010f1001.d
 Level 4: /chem/ecd2a.i/113009a.b/014f1401.d
 Level 5: /chem/ecd2a.i/120209.b/012f1201.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)	2466	2335	2250	2152	1986	2238	8.133
(2)	4869	4683	4664	4616	4594	4685	2.323
(3)	2072	1962	1892	1818	1764	1901	6.365
(4)	1061	990	984	930	915	976	5.885
(5)	1595	1490	1441	1389	1375	1458	6.121
2 Aroclor-1221(1)	++++	++++	++++	464	++++	464	0.000
(2)	++++	++++	++++	657	++++	657	0.000
(3)	++++	++++	++++	347	++++	347	0.000
3 Aroclor-1232(1)	++++	++++	++++	1165	++++	1165	0.000
(2)	++++	++++	++++	931	++++	931	0.000
(3)	++++	++++	++++	800	++++	800	0.000
(4)	++++	++++	++++	510	++++	510	0.000
(5)	++++	++++	++++	584	++++	584	0.000
4 Aroclor-1242(1)	1990	1799	1692	1619	1566	1733	9.686
(2)	1678	1536	1439	1387	1381	1484	8.410
(3)	1015	931	874	843	866	906	7.639
(4)	817	761	714	669	673	727	8.615
(5)	1272	1143	1059	1036	1087	1120	8.434
5 Aroclor-1248(1)	1738	1529	1527	1515	1325	1527	9.560
(2)	2238	2070	1990	2006	1832	2027	7.247
(3)	1706	1611	1571	1551	1415	1571	6.718
(4)	2322	2198	2161	2230	2178	2218	2.874
(5)	2083	1922	1902	1885	1770	1913	5.861
6 Aroclor-1254(1)	2304	2118	2048	2007	1924	2080	6.888
(2)	2981	2797	2739	2702	2642	2772	4.677
(3)	3870	3712	3711	3744	3675	3742	2.011
(4)	2886	2776	2725	2760	2767	2783	2.186
(5)	2994	2820	2741	2711	2533	2760	6.080

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Cal Date : 29-Dec-2009 14:49 jen01212
 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			
7 Aroclor-1260(1)	4187	4145	4185	4134	4175	4165	0.584
(2)	2696	2603	2589	2529	2536	2591	2.593
(3)	2699	2626	2625	2591	2614	2631	1.539
(4)	5867	6003	6142	6129	6296	6088	2.650
(5)	2925	2904	2929	2920	3034	2942	1.769
8 Aroclor-1262(1)	2530	2266	2239	2239	2092	2273	6.993
(2)	3295	3066	3031	3051	2917	3072	4.482
(3)	4237	3997	3977	3997	3815	4004	3.763
(4)	3754	3532	3556	3594	3430	3573	3.295
(5)	2578	2453	2481	2538	2454	2501	2.217
9 Aroclor-1268(1)	9077	9136	9272	9373	10103	9392	4.409
(2)	9332	9272	9238	9197	9765	9361	2.470
(3)	6985	6923	6953	6984	7523	7073	3.568
(4)	3112	3015	2984	2964	3207	3056	3.331
(5)	21397	21592	21760	21851	23464	22013	3.767
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 4,4'-DDT	+++++	+++++	+++++	50063	+++++	50063	0.000
14 4,4'-DDD	+++++	+++++	+++++	72978	+++++	72978	0.000
15 4,4'-DDE	+++++	+++++	+++++	74262	+++++	74262	0.000
11 4cmx	61300	61246	62868	63075	62969	62292	1.498
12 Decachlorobiphenyl	55102	53352	54400	53360	54345	54112	1.389

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Cal Date : 29-Dec-2009 14:47 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008b0801.d
 Level 2: /chem/ecd2a.i/120209.b/009b0901.d
 Level 3: /chem/ecd2a.i/120209.b/010b1001.d
 Level 4: /chem/ecd2a.i/113009a.b/014b1401.d
 Level 5: /chem/ecd2a.i/120209.b/012b1201.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
=====							
1 Aroclor-1016(1)	4662	4582	4609	4551	4285	4538	3.244
(2)	3647	3696	3564	3575	3528	3602	1.886
(3)	2078	2044	2044	2059	2041	2053	0.760
(4)	2149	2125	2133	2140	2138	2137	0.428
(5)	2852	2832	2882	2908	2879	2871	1.025
2 Aroclor-1221(1)	+++++	+++++	+++++	1263	+++++	1263	0.000
(2)	+++++	+++++	+++++	774	+++++	774	0.000
(3)	+++++	+++++	+++++	3051	+++++	3051	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	2061	+++++	2061	0.000
(2)	+++++	+++++	+++++	1960	+++++	1960	0.000
(3)	+++++	+++++	+++++	1498	+++++	1498	0.000
(4)	+++++	+++++	+++++	931	+++++	931	0.000
(5)	+++++	+++++	+++++	1107	+++++	1107	0.000
4 Aroclor-1242(1)	3674	3489	3409	3384	3271	3445	4.346
(2)	2815	2677	2634	2637	2644	2681	2.863
(3)	1696	1624	1594	1606	1663	1637	2.599
(4)	1601	1513	1471	1467	1487	1508	3.655
(5)	2235	2100	2068	2141	2180	2145	3.068
5 Aroclor-1248(1)	3439	3315	3263	3296	3099	3282	3.723
(2)	4291	4205	4192	4250	3996	4187	2.717
(3)	4601	4495	4377	4484	4299	4451	2.609
(4)	4665	4612	4696	4831	4682	4697	1.733
(5)	5471	5399	5390	5477	5208	5389	2.022
6 Aroclor-1254(1)	5121	4955	4998	5025	4828	4985	2.145
(2)	5885	5693	5812	5852	5753	5799	1.330
(3)	4010	3906	3992	4126	4082	4023	2.109
(4)	7559	7611	7766	7925	7797	7731	1.909
(5)	5659	5569	5439	5821	5553	5608	2.538

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Cal Date : 29-Dec-2009 14:47 jen01212
 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			
7 Aroclor-1260(1)	5735	5627	5779	5816	5877	5767	1.626
(2)	6687	7031	7243	7286	7372	7124	3.855
(3)	4572	4701	4890	4942	4988	4819	3.647
(4)	5377	5518	5714	5746	5803	5632	3.163
(5)	8369	8607	9231	9252	9728	9038	6.039
8 Aroclor-1262(1)	4855	4536	4634	4812	4677	4703	2.776
(2)	5760	5648	5834	6083	5942	5853	2.859
(3)	8687	8674	9001	9349	9021	8946	3.121
(4)	7559	7507	7790	8124	7880	7772	3.221
(5)	15890	16154	16824	17584	17141	16719	4.167
9 Aroclor-1268(1)	18829	19584	20101	20533	22559	20321	6.904
(2)	18822	19343	20333	20389	22025	20182	6.077
(3)	13874	14365	14864	15141	16565	14962	6.808
(4)	5734	6115	6404	6840	7097	6438	8.497
(5)	40707	42777	43856	44408	48724	44094	6.689
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	87046	++++	87046	0.000
14 4,4'-DDD	++++	++++	++++	149858	++++	149858	0.000
15 4,4'-DDE	++++	++++	++++	150414	++++	150414	0.000
11 4cmx	118604	126358	131414	133891	136323	129318	5.440
12 Decachlorobiphenyl	109662	108705	113295	113170	119083	112783	3.614

Report Date: 04-Jan-2010 08:44

Calibration History

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008f0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035f3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011f1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023f2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003f0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011f1101.d

Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009f0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036f3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012f1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024f2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004f0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012f1201.d

Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010f1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037f3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013f1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025f2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005f0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013f1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014f1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026f2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006f0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014f1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010f1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038f3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011f1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007f0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006f0601.d

Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012f1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039f3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015f1501.d
12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027f2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007f0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015f1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 14:16 AR1660	/chem/ecd2a.i/123109.b/037f3701.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 12:58 AR1660	/chem/ecd2a.i/123109.b/030f3001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 11:08 AR1660	/chem/ecd2a.i/123109.b/020f2001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 09:11 AR1268	/chem/ecd2a.i/123109.b/010f1001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 09:00 AR1262	/chem/ecd2a.i/123109.b/009f0901.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:49 AR1221	/chem/ecd2a.i/123109.b/008f0801.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:38 AR1232	/chem/ecd2a.i/123109.b/007f0701.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:15 AR1248	/chem/ecd2a.i/123109.b/005f0501.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:04 AR1242	/chem/ecd2a.i/123109.b/004f0401.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 07:53 AR1254	/chem/ecd2a.i/123109.b/003f0301.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:26 AR1660	/chem/ecd2a.i/123109.b/006f0601.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 07:42 AR1660	/chem/ecd2a.i/123109.b/002f0201.d	

Report Date: 04-Jan-2010 08:44

Calibration History

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
Start Cal Date: 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
02-DEC-2009 07:05	AR1262	/chem/ecd2a.i/120209.b/008b0801.d
12-NOV-2009 16:22	AR1268	/chem/ecd2a.i/111209a.b/035b3501.d
30-NOV-2009 10:12	AR1248	/chem/ecd2a.i/113009a.b/011b1101.d
12-NOV-2009 14:09	AR1242	/chem/ecd2a.i/111209a.b/023b2301.d
30-NOV-2009 08:43	AR1254	/chem/ecd2a.i/113009a.b/003b0301.d
14-DEC-2009 08:51	AR1660	/chem/ecd2a.i/121409.b/011b1101.d

Cal Level: 2 , Cal Amount: 250.00000		
02-DEC-2009 07:16	AR1262	/chem/ecd2a.i/120209.b/009b0901.d
12-NOV-2009 16:33	AR1268	/chem/ecd2a.i/111209a.b/036b3601.d
30-NOV-2009 10:23	AR1248	/chem/ecd2a.i/113009a.b/012b1201.d
12-NOV-2009 14:20	AR1242	/chem/ecd2a.i/111209a.b/024b2401.d
30-NOV-2009 08:54	AR1254	/chem/ecd2a.i/113009a.b/004b0401.d
14-DEC-2009 09:02	AR1660	/chem/ecd2a.i/121409.b/012b1201.d

Cal Level: 3 , Cal Amount: 500.00000		
02-DEC-2009 07:27	AR1262	/chem/ecd2a.i/120209.b/010b1001.d
12-NOV-2009 16:44	AR1268	/chem/ecd2a.i/111209a.b/037b3701.d
30-NOV-2009 10:34	AR1248	/chem/ecd2a.i/113009a.b/013b1301.d
12-NOV-2009 14:31	AR1242	/chem/ecd2a.i/111209a.b/025b2501.d
30-NOV-2009 09:05	AR1254	/chem/ecd2a.i/113009a.b/005b0501.d
14-DEC-2009 09:13	AR1660	/chem/ecd2a.i/121409.b/013b1301.d

Cal Level: 4 , Cal Amount: 1000.00000		
30-NOV-2009 10:45	AR1248	/chem/ecd2a.i/113009a.b/014b1401.d
12-NOV-2009 14:42	AR1242	/chem/ecd2a.i/111209a.b/026b2601.d
30-NOV-2009 09:16	AR1254	/chem/ecd2a.i/113009a.b/006b0601.d
14-DEC-2009 09:24	AR1660	/chem/ecd2a.i/121409.b/014b1401.d
12-NOV-2009 11:45	DDTANALOGSTD	/chem/ecd2a.i/111209a.b/010b1001.d
12-NOV-2009 16:55	AR1268	/chem/ecd2a.i/111209a.b/038b3801.d
02-DEC-2009 07:38	AR1262	/chem/ecd2a.i/120209.b/011b1101.d
12-NOV-2009 11:11	AR1221	/chem/ecd2a.i/111209a.b/007b0701.d
12-NOV-2009 11:00	AR1232	/chem/ecd2a.i/111209a.b/006b0601.d

Cal Level: 5 , Cal Amount: 4000.00000		
02-DEC-2009 07:50	AR1262	/chem/ecd2a.i/120209.b/012b1201.d
12-NOV-2009 17:07	AR1268	/chem/ecd2a.i/111209a.b/039b3901.d
30-NOV-2009 10:56	AR1248	/chem/ecd2a.i/113009a.b/015b1501.d
12-NOV-2009 14:53	AR1242	/chem/ecd2a.i/111209a.b/027b2701.d
30-NOV-2009 09:27	AR1254	/chem/ecd2a.i/113009a.b/007b0701.d
14-DEC-2009 09:35	AR1660	/chem/ecd2a.i/121409.b/015b1501.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 14:16 AR1660	/chem/ecd2a.i/123109.b/037b3701.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 12:58 AR1660	/chem/ecd2a.i/123109.b/030b3001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 11:08 AR1660	/chem/ecd2a.i/123109.b/020b2001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 09:11 AR1268	/chem/ecd2a.i/123109.b/010b1001.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:49 AR1221	/chem/ecd2a.i/123109.b/008b0801.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:38 AR1232	/chem/ecd2a.i/123109.b/007b0701.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:15 AR1248	/chem/ecd2a.i/123109.b/005b0501.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:04 AR1242	/chem/ecd2a.i/123109.b/004b0401.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 07:53 AR1254	/chem/ecd2a.i/123109.b/003b0301.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 08:26 AR1660	/chem/ecd2a.i/123109.b/006b0601.d	
Ccal Level: 4 , Ccal Amount: 1000		
31-DEC-2009 07:42 AR1660	/chem/ecd2a.i/123109.b/002b0201.d	

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 04-Jan-2010 08:01 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	500.000000
Initial:End Threshold	250.000000
Initial:Area Threshold	10000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.000000
Initial:Negative Peaks	OFF
Initial:Tension	1.100000
8.500:Bunch Factor	2.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.274	2.244-2.304	2.238e+03
	2.598	2.568-2.628	4.685e+03
	2.689	2.659-2.719	1.901e+03
	2.824	2.794-2.854	9.760e+02
	2.975	2.945-3.005	1.458e+03
2 Aroclor-1221	1.439	1.409-1.469	4.641e+02
	1.900	1.870-1.930	6.570e+02
	1.999	1.969-2.029	3.467e+02
3 Aroclor-1232	2.025	1.995-2.055	1.165e+03
	2.273	2.243-2.303	9.314e+02
	2.688	2.658-2.718	8.004e+02
	2.731	2.701-2.761	5.102e+02
	2.974	2.944-3.004	5.840e+02
4 Aroclor-1242	2.275	2.245-2.305	1.733e+03
	2.689	2.659-2.719	1.484e+03
	2.732	2.702-2.762	9.058e+02
	2.824	2.794-2.854	7.269e+02
	2.975	2.945-3.005	1.120e+03
5 Aroclor-1248	2.824	2.794-2.854	1.527e+03
	2.975	2.945-3.005	2.027e+03
	3.035	3.005-3.065	1.571e+03
	3.269	3.239-3.299	2.218e+03
	3.422	3.392-3.452	1.913e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.241	3.211-3.271	2.080e+03
	3.424	3.394-3.454	2.772e+03
	3.694	3.664-3.724	3.742e+03
	3.885	3.855-3.915	2.783e+03
	4.014	3.984-4.044	2.760e+03
7 Aroclor-1260	4.015	3.985-4.045	4.165e+03
	4.287	4.257-4.317	2.591e+03
	4.452	4.422-4.482	2.631e+03
	4.664	4.634-4.694	6.088e+03
	4.854	4.824-4.884	2.942e+03
8 Aroclor-1262	3.823	3.793-3.853	2.273e+03
	4.015	3.985-4.045	3.072e+03
	4.286	4.256-4.316	4.004e+03
	4.452	4.422-4.482	3.573e+03
	4.854	4.824-4.884	2.501e+03
9 Aroclor-1268	4.884	4.854-4.914	9.392e+03
	4.909	4.879-4.939	9.361e+03
	5.043	5.013-5.073	7.073e+03
	5.281	5.251-5.311	3.056e+03
	5.478	5.448-5.508	2.201e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.772	1.742-1.802	6.229e+04
\$ 12 Decachlorobiphenyl	5.608	5.578-5.638	5.411e+04
13 4,4'-DDT	4.229	4.209-4.249	5.006e+04
14 4,4'-DDD	4.036	4.016-4.056	7.298e+04
15 4,4'-DDE	3.632	3.612-3.652	7.426e+04

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 04-Jan-2010 08:00 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 1000.000000
 Initial:End Threshold 500.000000
 Initial:Area Threshold 500.000000
 Initial:P-P Resolution 0.000000
 Initial:Bunch Factor 3.000000
 Initial:Negative Peaks OFF
 Initial:Tension 4.000000
 4.200:Tension 1.000000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.745	2.715-2.775	4.538e+03
	3.179	3.149-3.209	3.602e+03
	3.331	3.301-3.361	2.053e+03
	3.359	3.329-3.389	2.137e+03
	3.518	3.488-3.548	2.871e+03
2 Aroclor-1221	2.292	2.262-2.322	1.263e+03
	2.397	2.367-2.427	7.739e+02
	2.442	2.412-2.472	3.051e+03
3 Aroclor-1232	2.441	2.411-2.471	2.061e+03
	2.744	2.715-2.775	1.960e+03
	3.180	3.150-3.209	1.498e+03
	3.251	3.221-3.281	9.309e+02
4 Aroclor-1242	3.517	3.487-3.547	1.107e+03
	2.745	2.715-2.775	3.445e+03
	3.180	3.150-3.210	2.681e+03
	3.252	3.222-3.282	1.637e+03
	3.331	3.301-3.361	1.508e+03
5 Aroclor-1248	3.518	3.488-3.548	2.145e+03
	3.330	3.300-3.360	3.282e+03
	3.518	3.488-3.548	4.187e+03
	3.603	3.573-3.633	4.451e+03
	3.793	3.763-3.823	4.697e+03
	3.823	3.793-3.853	5.389e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.817	3.787-3.847	4.985e+03
	3.958	3.928-3.988	5.799e+03
	4.195	4.165-4.225	4.023e+03
	4.276	4.246-4.306	7.731e+03
	4.439	4.409-4.469	5.608e+03
7 Aroclor-1260	4.414	4.384-4.444	5.767e+03
	4.565	4.535-4.595	7.124e+03
	4.677	4.647-4.707	4.819e+03
	4.874	4.844-4.904	5.632e+03
	5.500	5.470-5.530	9.038e+03
8 Aroclor-1262	4.415	4.385-4.445	4.703e+03
	4.566	4.536-4.596	5.853e+03
	4.875	4.845-4.905	8.946e+03
	5.075	5.045-5.105	7.772e+03
	5.253	5.223-5.283	1.672e+04
9 Aroclor-1268	5.498	5.468-5.528	2.032e+04
	5.531	5.501-5.561	2.018e+04
	5.702	5.672-5.732	1.496e+04
	5.902	5.872-5.932	6.438e+03
	6.126	6.096-6.156	4.409e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.069	2.039-2.099	1.293e+05
\$ 12 Decachlorobiphenyl	6.300	6.270-6.330	1.128e+05
13 4,4'-DDT	4.814	4.794-4.834	8.705e+04
14 4,4'-DDD	4.600	4.580-4.620	1.499e+05
15 4,4'-DDE	4.195	4.175-4.215	1.504e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
End Cal Date : 14-DEC-2009 09:35
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
Cal Date : 04-Jan-2010 08:01 jen01212
Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008f0801.d
Level 2: /chem/ecd2a.i/120209.b/009f0901.d
Level 3: /chem/ecd2a.i/120209.b/010f1001.d
Level 4: /chem/ecd2a.i/113009a.b/014f1401.d
Level 5: /chem/ecd2a.i/120209.b/012f1201.d

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
=====							
1 Aroclor-1016(1)	2466	2335	2250	2152	1986	2238	8.133
(2)	4869	4683	4664	4616	4594	4685	2.323
(3)	2072	1962	1892	1818	1764	1901	6.365
(4)	1061	990	984	930	915	976	5.885
(5)	1595	1490	1441	1389	1375	1458	6.121
2 Aroclor-1221(1)	++++	++++	++++	464	++++	464	0.000
(2)	++++	++++	++++	657	++++	657	0.000
(3)	++++	++++	++++	347	++++	347	0.000
3 Aroclor-1232(1)	++++	++++	++++	1165	++++	1165	0.000
(2)	++++	++++	++++	931	++++	931	0.000
(3)	++++	++++	++++	800	++++	800	0.000
(4)	++++	++++	++++	510	++++	510	0.000
(5)	++++	++++	++++	584	++++	584	0.000
4 Aroclor-1242(1)	1990	1799	1692	1619	1566	1733	9.686
(2)	1678	1536	1439	1387	1381	1484	8.410
(3)	1015	931	874	843	866	906	7.639
(4)	817	761	714	669	673	727	8.615
(5)	1272	1143	1059	1036	1087	1120	8.434
5 Aroclor-1248(1)	1738	1529	1527	1515	1325	1527	9.560
(2)	2238	2070	1990	2006	1832	2027	7.247
(3)	1706	1611	1571	1551	1415	1571	6.718
(4)	2322	2198	2161	2230	2178	2218	2.874
(5)	2083	1922	1902	1885	1770	1913	5.861
6 Aroclor-1254(1)	2304	2118	2048	2007	1924	2080	6.888
(2)	2981	2797	2739	2702	2642	2772	4.677
(3)	3870	3712	3711	3744	3675	3742	2.011
(4)	2886	2776	2725	2760	2767	2783	2.186
(5)	2994	2820	2741	2711	2533	2760	6.080

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Cal Date : 04-Jan-2010 08:01 jen01212
 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			
7 Aroclor-1260(1)	4187	4145	4185	4134	4175	4165	-0.584
(2)	2696	2603	2589	2529	2536	2591	2.593
(3)	2699	2626	2625	2591	2614	2631	1.539
(4)	5867	6003	6142	6129	6296	6088	2.650
(5)	2925	2904	2929	2920	3034	2942	1.769
8 Aroclor-1262(1)	2530	2266	2239	2239	2092	2273	6.993
(2)	3295	3066	3031	3051	2917	3072	4.482
(3)	4237	3997	3977	3997	3815	4004	3.763
(4)	3754	3532	3556	3594	3430	3573	3.295
(5)	2578	2453	2481	2538	2454	2501	2.217
9 Aroclor-1268(1)	9077	9136	9272	9373	10103	9392	4.409
(2)	9332	9272	9238	9197	9765	9361	2.470
(3)	6985	6923	6953	6984	7523	7073	3.568
(4)	3112	3015	2984	2964	3207	3056	3.331
(5)	21397	21592	21760	21851	23464	22013	3.767
M 10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	50063	++++	50063	0.000
14 4,4'-DDD	++++	++++	++++	72978	++++	72978	0.000
15 4,4'-DDE	++++	++++	++++	74262	++++	74262	0.000
\$ 11 4cmx	61300	61246	62868	63075	62969	62292	1.498
\$ 12 Decachlorobiphenyl	55102	53352	54400	53360	54345	54112	1.389

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Cal Date : 04-Jan-2010 08:00 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd2a.i/120209.b/008b0801.d
 Level 2: /chem/ecd2a.i/120209.b/009b0901.d
 Level 3: /chem/ecd2a.i/120209.b/010b1001.d
 Level 4: /chem/ecd2a.i/113009a.b/014b1401.d
 Level 5: /chem/ecd2a.i/120209.b/012b1201.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)	4662	4582	4609	4551	4285	4538	3.244
(2)	3647	3696	3564	3575	3528	3602	1.886
(3)	2078	2044	2044	2059	2041	2053	0.760
(4)	2149	2125	2133	2140	2138	2137	0.428
(5)	2852	2832	2882	2908	2879	2871	1.025
2 Aroclor-1221(1)	+++++	+++++	+++++	1263	+++++	1263	0.000
(2)	+++++	+++++	+++++	774	+++++	774	0.000
(3)	+++++	+++++	+++++	3051	+++++	3051	0.000
3 Aroclor-1232(1)	+++++	+++++	+++++	2061	+++++	2061	0.000
(2)	+++++	+++++	+++++	1960	+++++	1960	0.000
(3)	+++++	+++++	+++++	1498	+++++	1498	0.000
(4)	+++++	+++++	+++++	931	+++++	931	0.000
(5)	+++++	+++++	+++++	1107	+++++	1107	0.000
4 Aroclor-1242(1)	3674	3489	3409	3384	3271	3445	4.346
(2)	2815	2677	2634	2637	2644	2681	2.863
(3)	1696	1624	1594	1606	1663	1637	2.599
(4)	1601	1513	1471	1467	1487	1508	3.655
(5)	2235	2100	2068	2141	2180	2145	3.068
5 Aroclor-1248(1)	3439	3315	3263	3296	3099	3282	3.723
(2)	4291	4205	4192	4250	3996	4187	2.717
(3)	4601	4495	4377	4484	4299	4451	2.609
(4)	4665	4612	4696	4831	4682	4697	1.733
(5)	5471	5399	5390	5477	5208	5389	2.022
6 Aroclor-1254(1)	5121	4955	4998	5025	4828	4985	2.145
(2)	5885	5693	5812	5852	5753	5799	1.330
(3)	4010	3906	3992	4126	4082	4023	2.109
(4)	7559	7611	7766	7925	7797	7731	1.909
(5)	5659	5569	5439	5821	5553	5608	2.538

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2009 11:00
 End Cal Date : 14-DEC-2009 09:35
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Cal Date : 04-Jan-2010 08:00 jen01212
 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			
7 Aroclor-1260(1)	5735	5627	5779	5816	5877	5767	1.626
(2)	6687	7031	7243	7286	7372	7124	3.855
(3)	4572	4701	4890	4942	4988	4819	3.647
(4)	5377	5518	5714	5746	5803	5632	3.163
(5)	8369	8607	9231	9252	9728	9038	6.039
8 Aroclor-1262(1)	4855	4536	4634	4812	4677	4703	2.776
(2)	5760	5648	5834	6083	5942	5853	2.859
(3)	8687	8674	9001	9349	9021	8946	3.121
(4)	7559	7507	7790	8124	7880	7772	3.221
(5)	15890	16154	16824	17584	17141	16719	4.167
9 Aroclor-1268(1)	18829	19584	20101	20533	22559	20321	6.904
(2)	18822	19343	20333	20389	22025	20182	6.077
(3)	13874	14365	14864	15141	16565	14962	6.808
(4)	5734	6115	6404	6840	7097	6438	8.497
(5)	40707	42777	43856	44408	48724	44094	6.689
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	87046	++++	87046	0.000
14 4,4'-DDD	++++	++++	++++	149858	++++	149858	0.000
15 4,4'-DDE	++++	++++	++++	150414	++++	150414	0.000
11 4cmx	118604	126358	131414	133891	136323	129318	5.440
12 Decachlorobiphenyl	109662	108705	113295	113170	119083	112783	3.614

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.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 0726
 Lab File ID: 002F0201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	1979.810	0.01	-11.5	15.0
(2)	4685.268	4181.732	0.01	-10.7	15.0
(3)	1901.482	1665.482	0.01	-12.4	15.0
(4)	975.978	854.977	0.01	-12.4	15.0
(5)	1457.866	1264.967	0.01	-13.2	15.0
Aroclor-1260	4165.097	4064.277	0.01	-2.4	15.0
(2)	2590.571	2586.356	0.01	-0.2	15.0
(3)	2631.205	2655.669	0.01	0.9	15.0
(4)	6087.596	6276.714	0.01	3.1	15.0
(5)	2942.150	3010.974	0.01	2.3	15.0
4cmx	62291.660	63833.220	0.01	2.5	15.0
Decachlorobiphenyl	54111.563	60710.230	0.01	12.2	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.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 0726
 Lab File ID: 002B0201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4194.660	0.01	-7.6	15.0
(2)	3602.166	3292.312	0.01	-8.6	15.0
(3)	2053.230	1911.309	0.01	-6.9	15.0
(4)	2137.091	2011.780	0.01	-5.9	15.0
(5)	2870.516	2685.788	0.01	-6.4	15.0
Aroclor-1260	5766.921	5686.021	0.01	-1.4	15.0
(2)	7123.891	7269.875	0.01	2.0	15.0
(3)	4818.707	4996.379	0.01	3.7	15.0
(4)	5631.757	5755.064	0.01	2.2	15.0
(5)	9037.511	9498.759	0.01	5.1	15.0
4cmx	129318.03	138216.34	0.01	6.9	15.0
Decachlorobiphenyl	112782.99	128323.67	0.01	13.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1117
 Lab File ID: 022F2201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	2015.417	0.01	-9.9	15.0
(2)	4685.268	4292.741	0.01	-8.4	15.0
(3)	1901.482	1720.292	0.01	-9.5	15.0
(4)	975.978	868.251	0.01	-11.0	15.0
(5)	1457.866	1328.140	0.01	-8.9	15.0
Aroclor-1260	4165.097	4128.858	0.01	-0.9	15.0
(2)	2590.571	2595.442	0.01	0.2	15.0
(3)	2631.205	2674.422	0.01	1.6	15.0
(4)	6087.596	6344.394	0.01	4.2	15.0
(5)	2942.150	3057.700	0.01	3.9	15.0
4cmx	62291.660	64591.400	0.01	3.7	15.0
Decachlorobiphenyl	54111.563	59777.760	0.01	10.5	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.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/29/09 Time: 1117
 Lab File ID: 022B2201 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4206.631	0.01	-7.3	15.0
(2)	3602.166	3357.192	0.01	-6.8	15.0
(3)	2053.230	1937.576	0.01	-5.6	15.0
(4)	2137.091	2015.700	0.01	-5.7	15.0
(5)	2870.516	2726.459	0.01	-5.0	15.0
Aroclor-1260	5766.921	5723.117	0.01	-0.8	15.0
(2)	7123.891	7231.224	0.01	1.5	15.0
(3)	4818.707	4952.700	0.01	2.8	15.0
(4)	5631.757	5709.014	0.01	1.4	15.0
(5)	9037.511	9420.244	0.01	4.2	15.0
4cmx	129318.03	138965.45	0.01	7.5	15.0
Decachlorobiphenyl	112782.99	126206.43	0.01	11.9	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 0826
 Lab File ID: 006F0601 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	2177.053	0.01	-2.7	15.0
(2)	4685.268	4534.889	0.01	-3.2	15.0
(3)	1901.482	1825.958	0.01	-4.0	15.0
(4)	975.978	927.756	0.01	-4.9	15.0
(5)	1457.866	1379.679	0.01	-5.4	15.0
Aroclor-1260	4165.097	4244.333	0.01	1.9	15.0
(2)	2590.571	2715.866	0.01	4.8	15.0
(3)	2631.205	2774.898	0.01	5.5	15.0
(4)	6087.596	6495.701	0.01	6.7	15.0
(5)	2942.150	3147.238	0.01	7.0	15.0
4cmx	62291.660	62464.280	0.01	0.3	15.0
Decachlorobiphenyl	54111.563	58891.210	0.01	8.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 0826
 Lab File ID: 006B0601 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4541.640	0.01	0.1	15.0
(2)	3602.166	3527.116	0.01	-2.1	15.0
(3)	2053.230	2038.452	0.01	-0.7	15.0
(4)	2137.091	2126.014	0.01	-0.5	15.0
(5)	2870.516	2863.486	0.01	-0.2	15.0
Aroclor-1260	5766.921	5884.927	0.01	2.0	15.0
(2)	7123.891	7417.007	0.01	4.1	15.0
(3)	4818.707	5102.019	0.01	5.9	15.0
(4)	5631.757	5906.686	0.01	4.9	15.0
(5)	9037.511	9822.315	0.01	8.7	15.0
4cmx	129318.03	134216.47	0.01	3.8	15.0
Decachlorobiphenyl	112782.99	124910.28	0.01	10.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 1258
 Lab File ID: 030F3001 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	2167.551	0.01	-3.1	15.0
(2)	4685.268	4604.554	0.01	-1.7	15.0
(3)	1901.482	1844.440	0.01	-3.0	15.0
(4)	975.978	954.673	0.01	-2.2	15.0
(5)	1457.866	1403.800	0.01	-3.7	15.0
Aroclor-1260	4165.097	4346.586	0.01	4.4	15.0
(2)	2590.571	2729.682	0.01	5.4	15.0
(3)	2631.205	2799.018	0.01	6.4	15.0
(4)	6087.596	6645.024	0.01	9.2	15.0
(5)	2942.150	3211.558	0.01	9.2	15.0
4cmx	62291.660	62627.190	0.01	0.5	15.0
Decachlorobiphenyl	54111.563	57715.650	0.01	6.7	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.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 1258
 Lab File ID: 030B3001 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4568.406	0.01	0.7	15.0
(2)	3602.166	3587.799	0.01	-0.4	15.0
(3)	2053.230	2073.127	0.01	1.0	15.0
(4)	2137.091	2160.907	0.01	1.1	15.0
(5)	2870.516	2909.755	0.01	1.4	15.0
Aroclor-1260	5766.921	6041.414	0.01	4.8	15.0
(2)	7123.891	7695.382	0.01	8.0	15.0
(3)	4818.707	5222.809	0.01	8.4	15.0
(4)	5631.757	5973.222	0.01	6.1	15.0
(5)	9037.511	9899.434	0.01	9.5	15.0
4cmx	129318.03	135195.80	0.01	4.5	15.0
Decachlorobiphenyl	112782.99	116751.52	0.01	3.5	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.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 1416
 Lab File ID: 037F3701 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	2237.690	2155.051	0.01	-3.7	15.0
(2)	4685.268	4574.472	0.01	-2.4	15.0
(3)	1901.482	1837.200	0.01	-3.4	15.0
(4)	975.978	923.049	0.01	-5.4	15.0
(5)	1457.866	1386.150	0.01	-4.9	15.0
Aroclor-1260	4165.097	4341.189	0.01	4.2	15.0
(2)	2590.571	2724.713	0.01	5.2	15.0
(3)	2631.205	2821.286	0.01	7.2	15.0
(4)	6087.596	6704.686	0.01	10.1	15.0
(5)	2942.150	3265.245	0.01	11.0	15.0
4cmx	62291.660	62427.550	0.01	0.2	15.0
Decachlorobiphenyl	54111.563	58992.470	0.01	9.0	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036
 Instrument ID: ECD2A Calibration Date: 12/31/09 Time: 1416
 Lab File ID: 037B3701 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0851 0935
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4537.819	4550.324	0.01	0.3	15.0
(2)	3602.166	3567.358	0.01	-1.0	15.0
(3)	2053.230	2050.591	0.01	-0.1	15.0
(4)	2137.091	2139.243	0.01	0.1	15.0
(5)	2870.516	2897.808	0.01	1.0	15.0
Aroclor-1260	5766.921	6042.958	0.01	4.8	15.0
(2)	7123.891	7700.256	0.01	8.1	15.0
(3)	4818.707	5236.593	0.01	8.7	15.0
(4)	5631.757	6028.948	0.01	7.0	15.0
(5)	9037.511	10029.801	0.01	11.0	15.0
4cmx	129318.03	134604.28	0.01	4.1	15.0
Decachlorobiphenyl	112782.99	121288.18	0.01	7.5	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/002f0201.d

Lab Smp Id: WAR091211-60 01

Client Smp ID: AR166001

Inj Date : 29-DEC-2009 07:26

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 01

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
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\$ 11 4cmx				CAS #: 877-09-8		
1.771	1.771	0.000	6383322 100.000	102	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.607	5.607	0.000	6071023 100.000	112	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.273	2.273	0.000	1979809 1000.00	885	80.00- 120.00	100.00
2.597	2.597	0.000	4181731 1000.00	892	192.49- 232.49	211.22
2.688	2.688	0.000	1665482 1000.00	876	64.38- 104.38	84.12
2.823	2.823	0.000	854976 1000.00	876	22.92- 62.92	43.18
2.974	2.974	0.000	1264967 1000.00	868	43.84- 83.84	63.89
Average of Peak Amounts =			879			

7 Aroclor-1260				CAS #: 11096-82-5		
4.014	4.014	0.000	4064277 1000.00	976	80.00- 120.00	100.00
4.286	4.286	0.000	2586356 1000.00	998	42.56- 82.56	63.64
4.451	4.451	0.000	2655669 1000.00	1010	44.13- 84.13	65.34
4.664	4.664	0.000	6276714 1000.00	1030	133.57- 173.57	154.44
4.853	4.853	0.000	3010973 1000.00	1020	53.66- 93.66	74.08
Average of Peak Amounts =			1.01e+03			

Data File: /chem/eod2a.i/122909.b/002f0201.d

Date: 29-DEC-2009 07:26

Client ID: AR16001

Sample Info: 114R091211-60 01

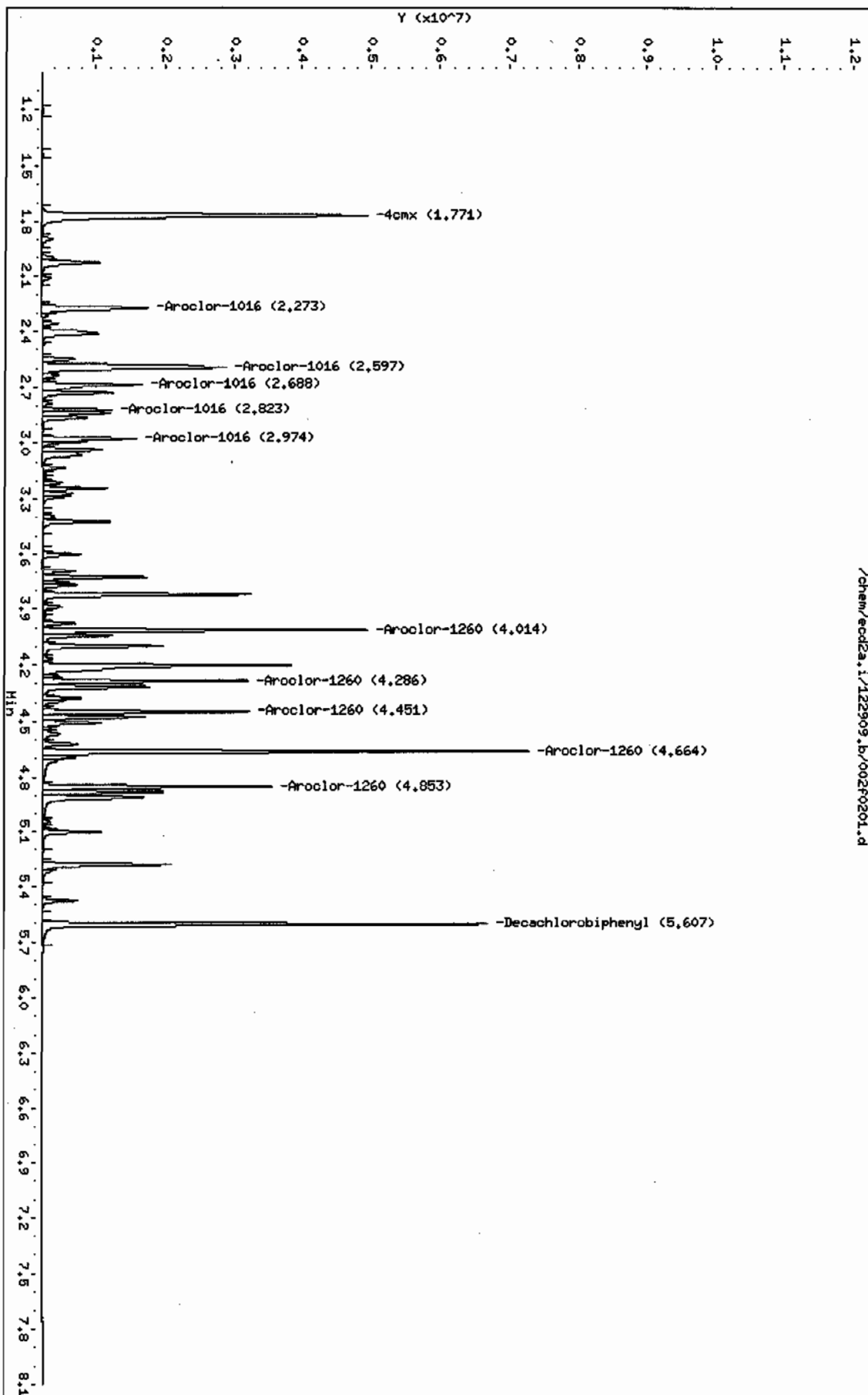
Page 1

Instrument: eod2a.i

Column phase: CLP1

Operator: JMC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/002b0201.d

Lab Smp Id: WAR091211-60 01

Client Smp ID: AR166001

Inj Date : 29-DEC-2009 07:26

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 01

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:41 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
11 4cmx			CAS #: 877-09-8			
2.068	2.068	0.000	13821634 100.000	107	80.00- 120.00	100.00
12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.300	6.300	0.000	12832367 100.000	114	80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
2.745	2.745	0.000	4194660 1000.00	924	80.00- 120.00	100.00
3.179	3.179	0.000	3292312 1000.00	914	58.49- 98.49	78.49
3.330	3.330	0.000	1911309 1000.00	931	25.57- 65.57	45.57
3.359	3.359	0.000	2011780 1000.00	941	27.96- 67.96	47.96
3.518	3.518	0.000	2685788 1000.00	936	44.03- 84.03	64.03
Average of Peak Amounts =			929			
7 Aroclor-1260			CAS #: 11096-82-5			
4.414	4.414	0.000	5686021 1000.00	986	80.00- 120.00	100.00
4.565	4.565	0.000	7269875 1000.00	1020	107.86- 147.86	127.86
4.677	4.677	0.000	4996379 1000.00	1040	67.87- 107.87	87.87
4.874	4.874	0.000	5755064 1000.00	1020	81.21- 121.21	101.21
5.500	5.500	0.000	9498759 1000.00	1050	147.05- 187.05	167.05
Average of Peak Amounts =			1.02e+03			

Data File: /chem/eod2a.i/122909.k/002b0201.d

Date: 29-DEC-2009 07:26

Client ID: AR166001

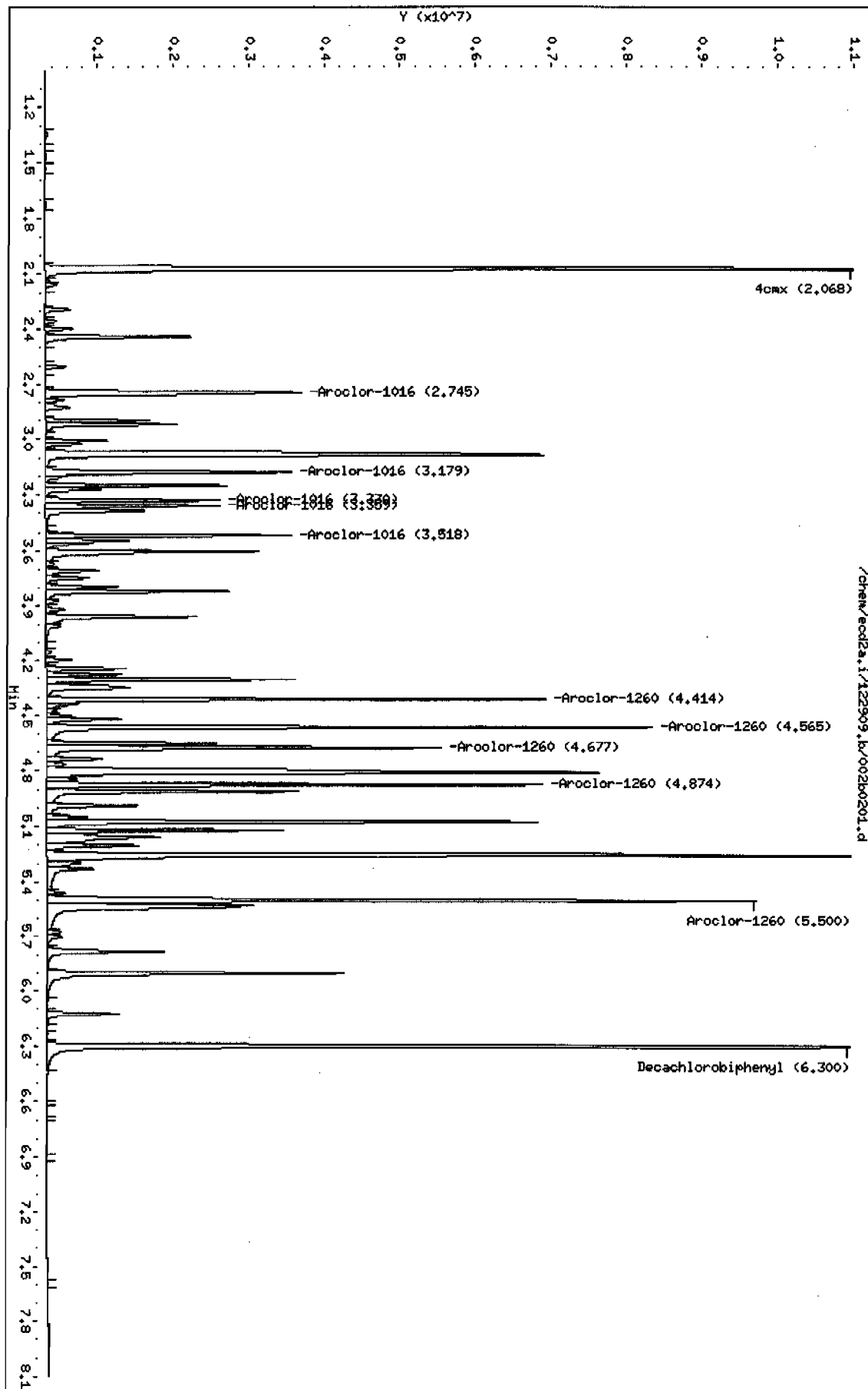
Sample Info: 1MAR091211-60 01

Column phase: CLP2

Instrument: eod2a.i

Operator: JDDC

Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/003f0301.d
Report Date: 29-Dec-2009 14:37

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/003f0301.d
Lab Smp Id: WAR091216-54 Client Smp ID: AR125401
Inj Date : 29-DEC-2009 07:37
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091216-54
Misc Info : |PCB_CVS|1254||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx			CAS #: 877-09-8			
1.771	1.771	0.000	6744893 100.000	108	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.608	5.607	0.001	6435687 100.000	119	80.00- 120.00	100.00
<hr/>						
6 Aroclor-1254			CAS #: 11097-69-1			
3.242	3.242	0.000	1956242 1000.00	940	80.00- 120.00	100.00
3.424	3.424	0.000	2598080 1000.00	937	112.81- 152.81	132.81
3.694	3.694	0.000	3579085 1000.00	956	162.96- 202.96	182.96
3.886	3.886	0.000	2609855 1000.00	938	113.41- 153.41	133.41
4.015	4.015	0.000	2682182 1000.00	972	117.11- 157.11	137.11
Average of Peak Amounts =			949			

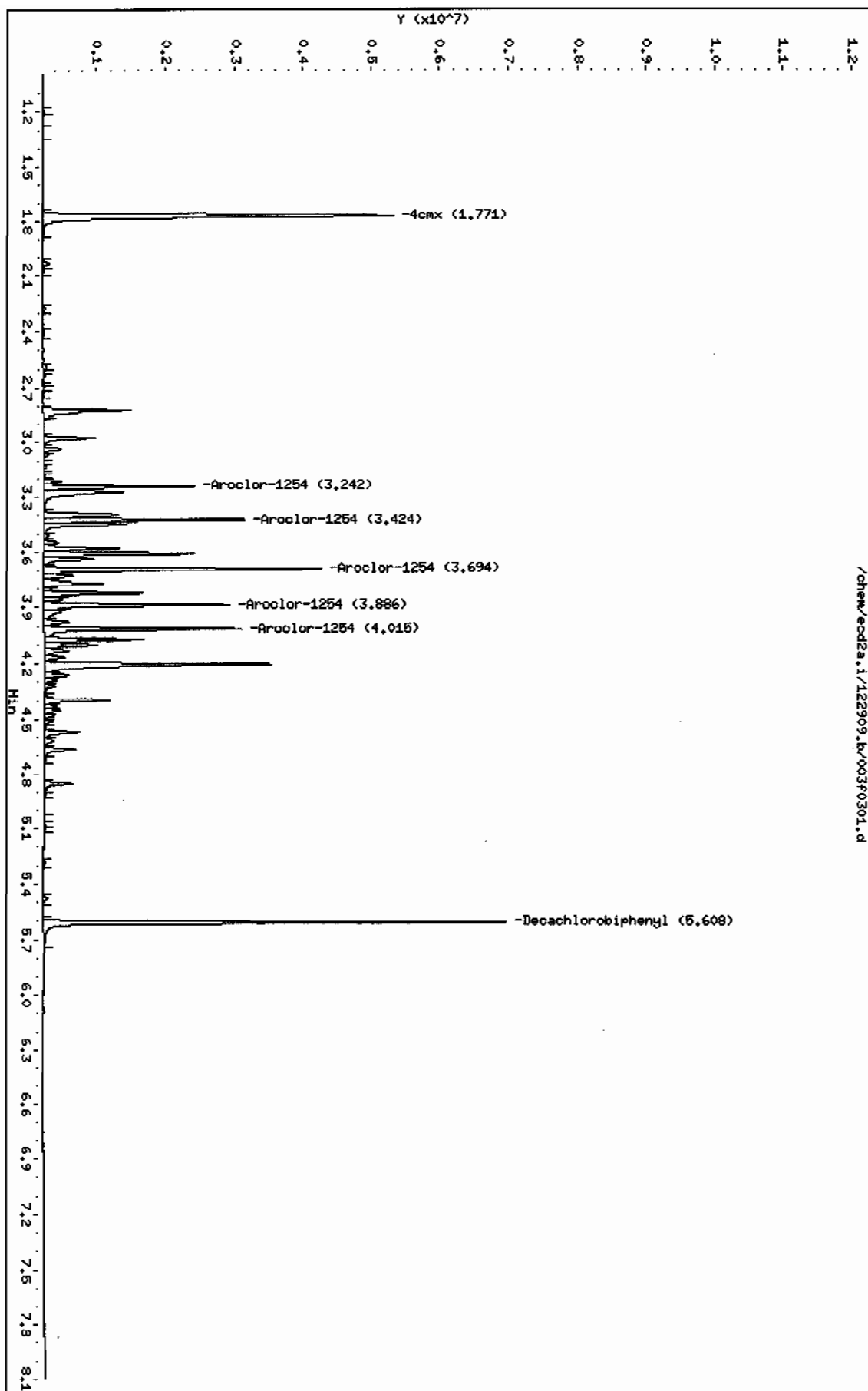
Data File: /chem/ecd2a.i/122909.b/003f0301.d
Date: 29-DEC-2009 07:37
Client ID: AR128401
Sample Info: 14AR091216-54

Instrument: ecd2a.i

Page 1

Column phase: CLP1

Operator: J90C
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/003b0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 29-DEC-2009 07:37

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091216-54

Misc Info : |PCB_CVS|1254||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:42 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
2.068	2.068	0.000	14704314 100.000	114	80.00- 120.00	100.00	

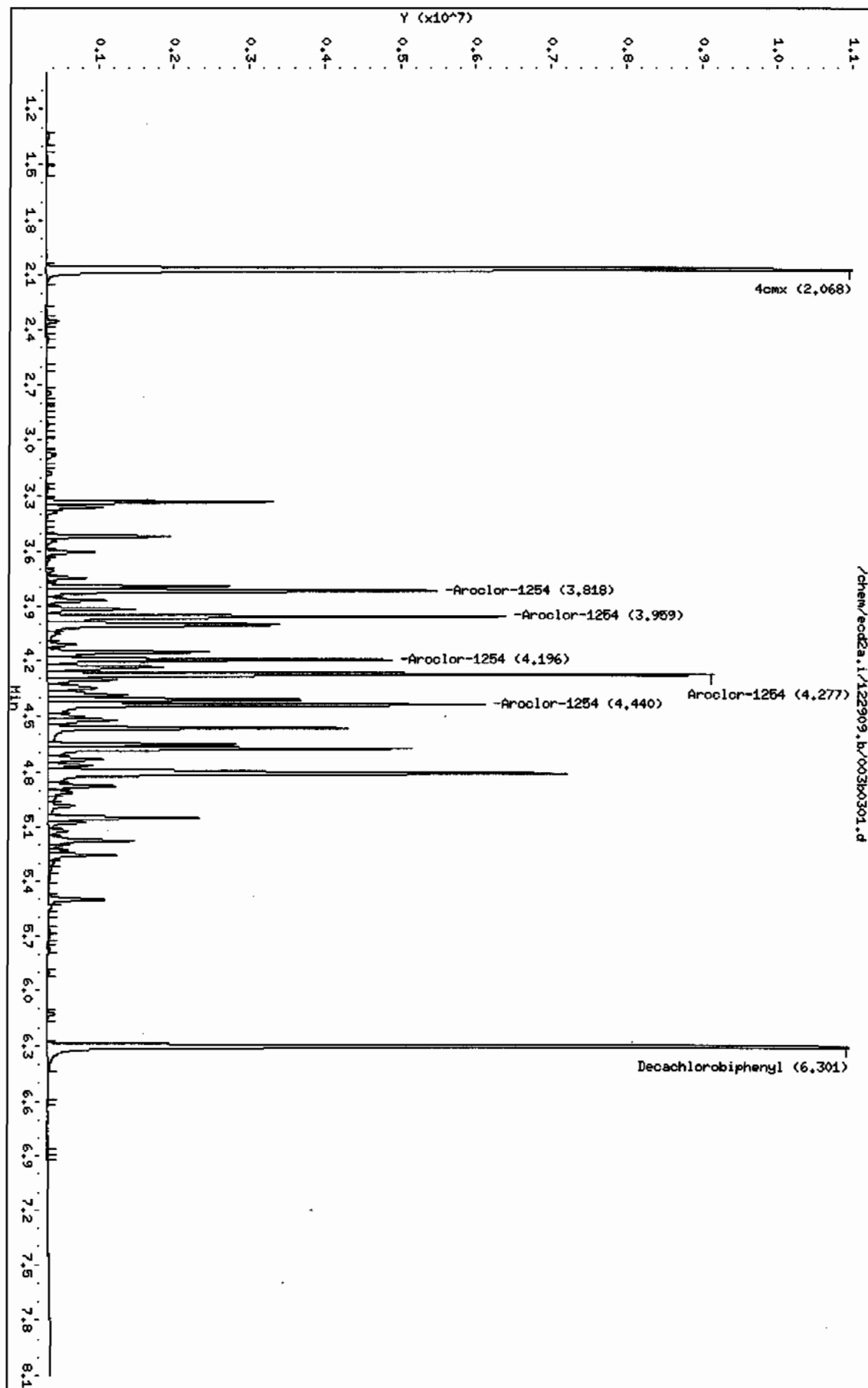
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.301	6.300	0.001	13560839 100.000	120	80.00- 120.00	100.00	

6 Aroclor-1254				CAS #: 11097-69-1			
3.818	3.818	0.000	4876217 1000.00	978	80.00- 120.00	100.00	
3.959	3.959	0.000	5566214 1000.00	960	94.15- 134.15	114.15	
4.196	4.196	0.000	3977097 1000.00	988	61.56- 101.56	81.56	
4.277	4.277	0.000	7608694 1000.00	984	136.04- 176.04	156.04	
4.440	4.440	0.000	5544908 1000.00	989	93.71- 133.71	113.71	
Average of Peak Amounts =				980			

Data File: /chem/ecd2a.i/122909.b/003b0301.d
Date: 29-DEC-2009 07:37
Client ID: AR125401
Sample Info: 1MR091216-54

Column phase: CLP2

Instrument: ecd2a.i
Operator: JMO
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/004f0401.d
Report Date: 29-Dec-2009 14:37

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 29-DEC-2009 07:48

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-42

Misc Info : |PCB_CVS|1242||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

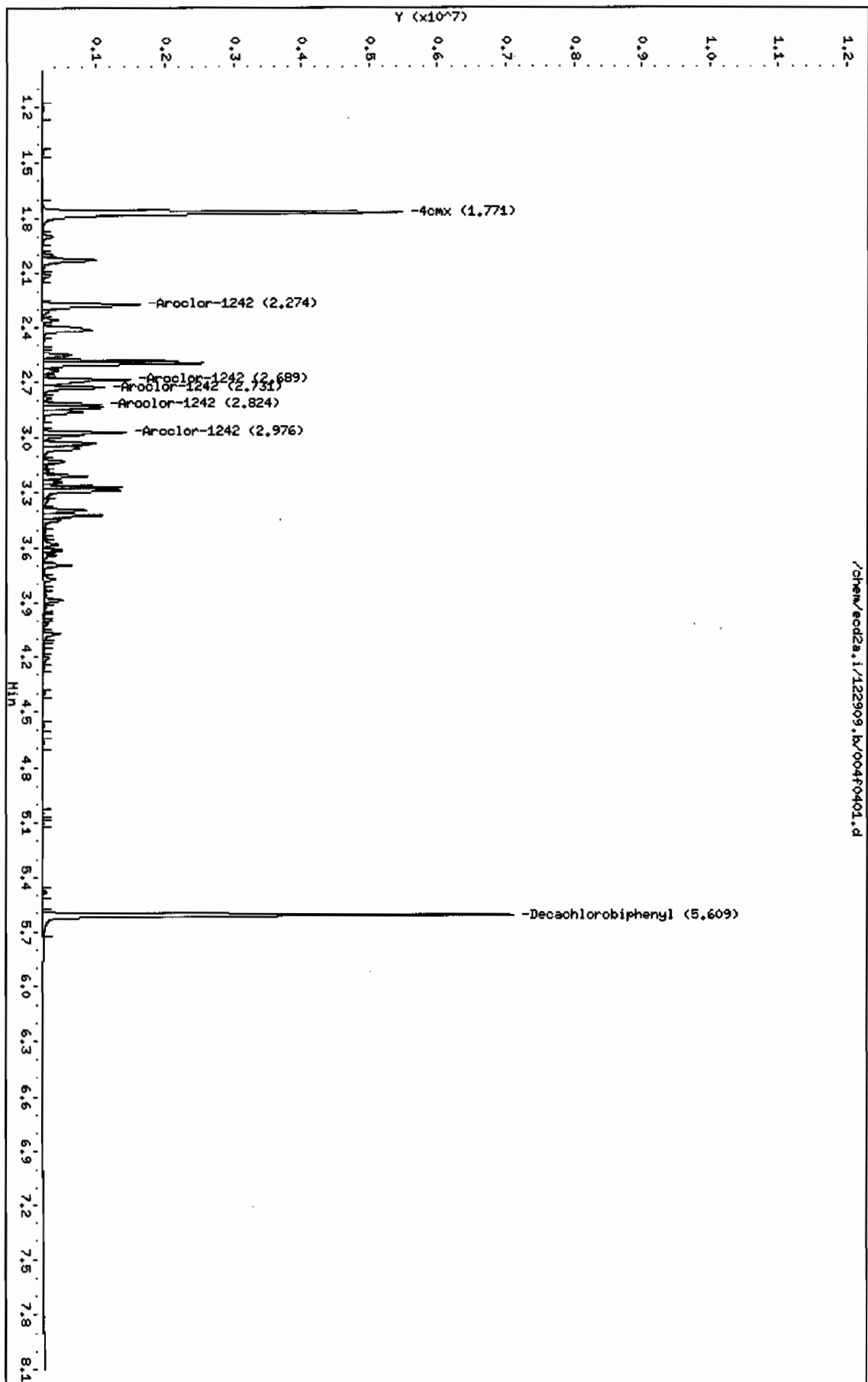
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx			CAS #: 877-09-8			
1.771	1.771	0.000	6773785 100.000	109	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.609	5.607	0.002	6474825 100.000	120	80.00- 120.00	100.00
<hr/>						
4 Aroclor-1242			CAS #: 53469-21-9			
2.274	2.274	0.000	1765815 1000.00	1020	80.00- 120.00	100.00
2.689	2.689	0.000	1458150 1000.00	982	62.58- 102.58	82.58
2.731	2.731	0.000	900745 1000.00	994	31.01- 71.01	51.01
2.824	2.824	0.000	710651 1000.00	978	20.24- 60.24	40.24
2.976	2.976	0.000	1119351 1000.00	1000	43.39- 83.39	63.39
Average of Peak Amounts =			995			

Data File: /chem/eod2a.i/122909.b/004f0401.d
Date: 29-DEC-2009 07:48
Client ID: R124201
Sample Info: 14MR091217-42

Column phase: CLP1

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 29-DEC-2009 07:48

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-42

Misc Info : |PCB_CVS|1242||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:43 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: 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			
2.069	2.068	0.001	14696292	100.000	114	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.302	6.300	0.002	13702837	100.000	121	80.00- 120.00	100.00	

4 Aroclor-1242					CAS #: 53469-21-9			
2.746	2.746	0.000	3718888	1000.00	1080	80.00- 120.00	100.00	
3.181	3.181	0.000	2793608	1000.00	1040	55.12- 95.12	75.12	
3.253	3.253	0.000	1669349	1000.00	1020	24.89- 64.89	44.89	
3.331	3.331	0.000	1567550	1000.00	1040	22.15- 62.15	42.15	
3.518	3.518	0.000	2299357	1000.00	1070	41.83- 81.83	61.83	
Average of Peak Amounts =					1.05e+03			

Data File: /chem/ecd2a.i/122909.b/004b0401.d

Date : 29-DEC-2009 07:48

Client ID: AR124201

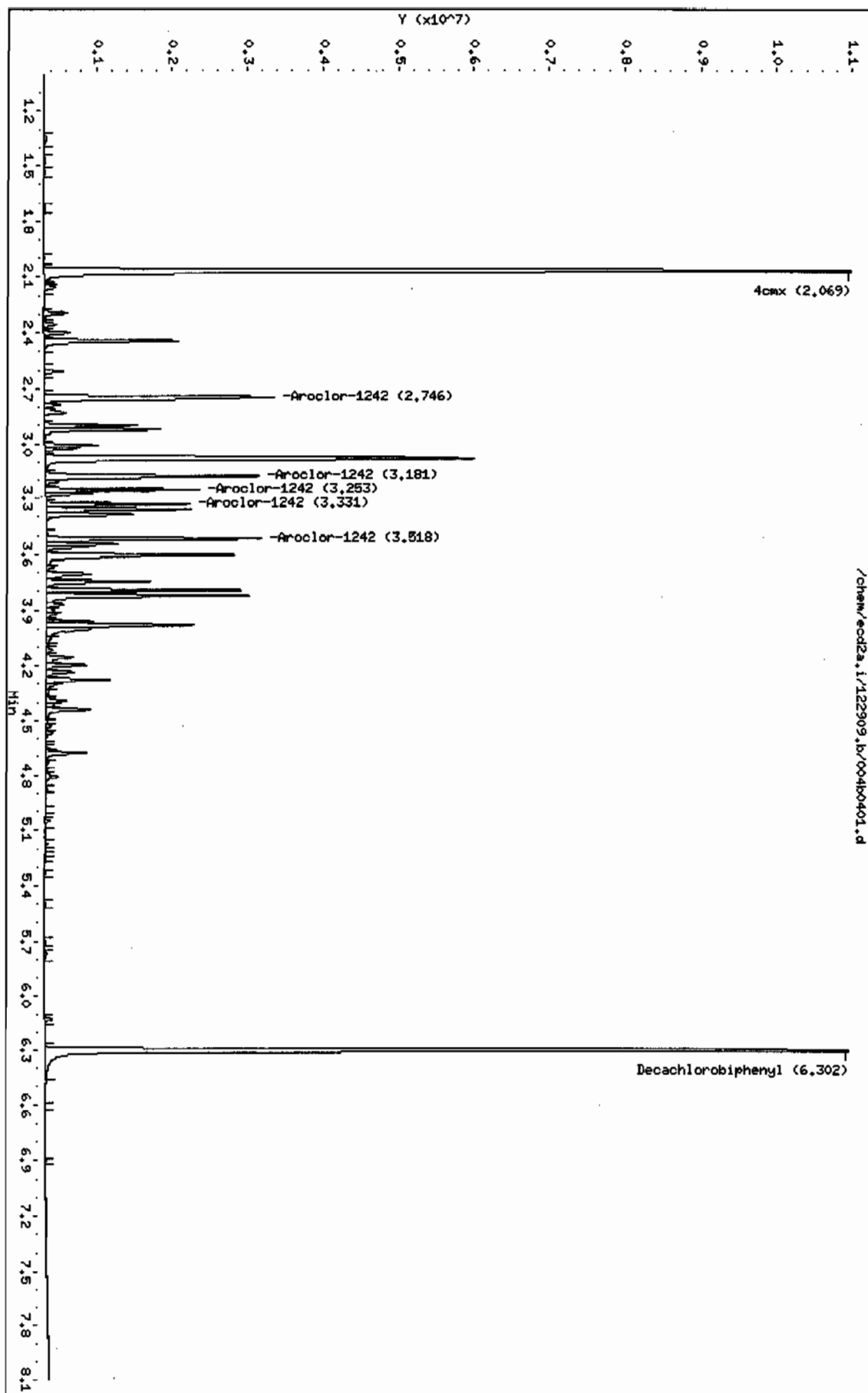
Sample Info: IAR091217-42

Column phase: CLP2

Instrument: ecd2a.i

Operator: JROC

Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/005f0501.d
Report Date: 29-Dec-2009 14:37

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 29-DEC-2009 07:59

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-48

Misc Info : |PCB_CVS|1248||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.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
<hr/>						
\$ 11 4cmx			CAS #: 877-09-8			
1.770	1.771	-0.001	7360215	100.000	118 80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.610	5.607	0.003	7090053	100.000	131 80.00- 120.00	100.00
<hr/>						
5 Aroclor-1248			CAS #: 12672-29-6			
2.825	2.825	0.000	1468344	1000.00	962 80.00- 120.00	100.00
2.975	2.975	0.000	1982668	1000.00	978 115.03- 155.03	135.03
3.035	3.035	0.000	1519725	1000.00	967 83.50- 123.50	103.50
3.270	3.270	0.000	2078664	1000.00	937 121.57- 161.57	141.57
3.424	3.424	0.000	1799011	1000.00	940 102.52- 142.52	122.52
Average of Peak Amounts =			957			

Data File: /chem/ecod2a.i/122909.lb/005f0501.d

Date : 29-DEC-2009 07:59

Client ID: PR124801

Sample Info: IMR091217-48

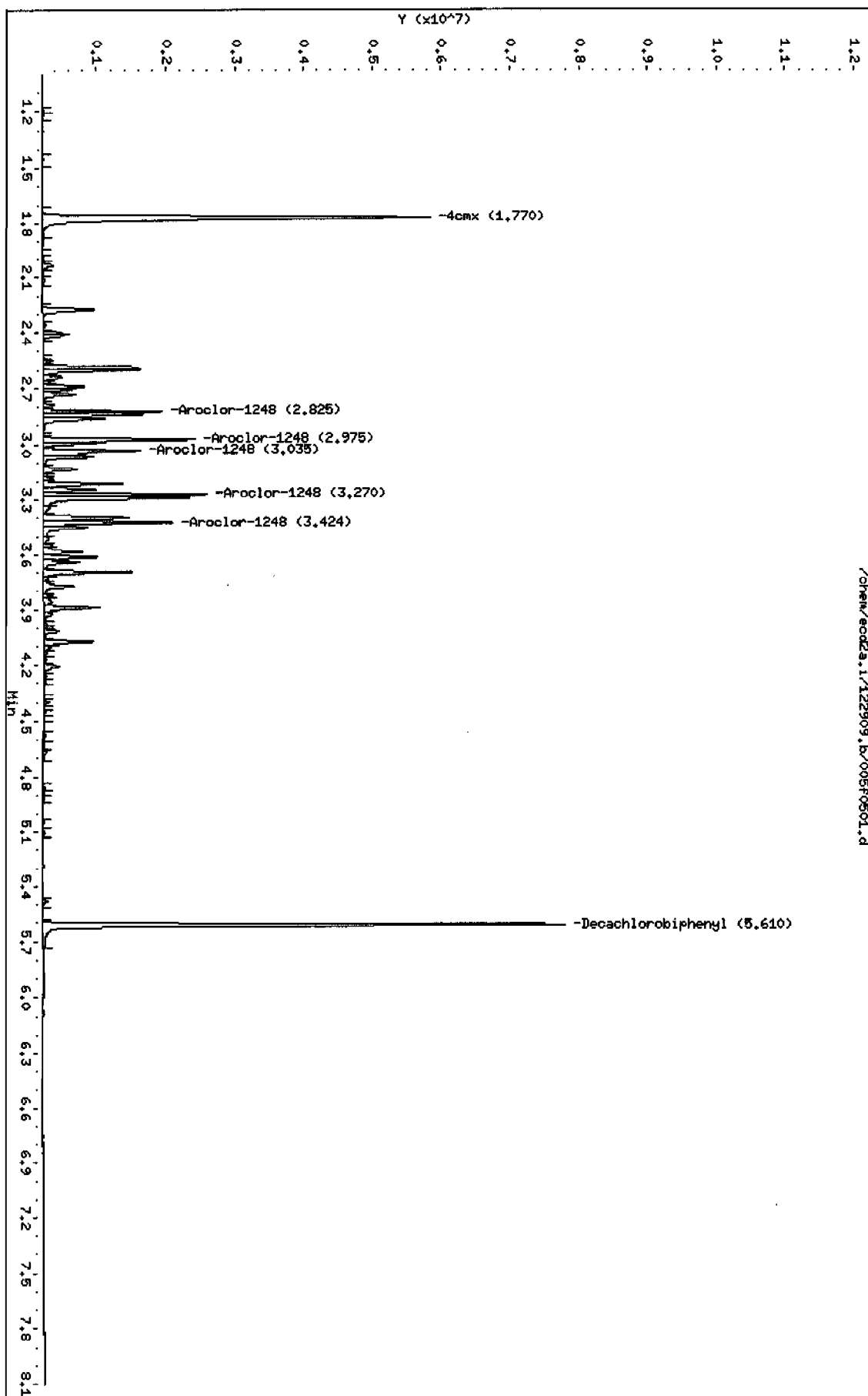
Column phase: CLP1

Instrument: ecod2a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/005b0501.d
Report Date: 29-Dec-2009 14:43

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 29-DEC-2009 07:59
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091217-48
Misc Info : |PCB_CVS|1248| |CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
Meth Date : 29-Dec-2009 14:43 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1248.sub
Target Version: 3.50 Sample Matrix: None
Processing Host: hpclp1

AMOUNTS

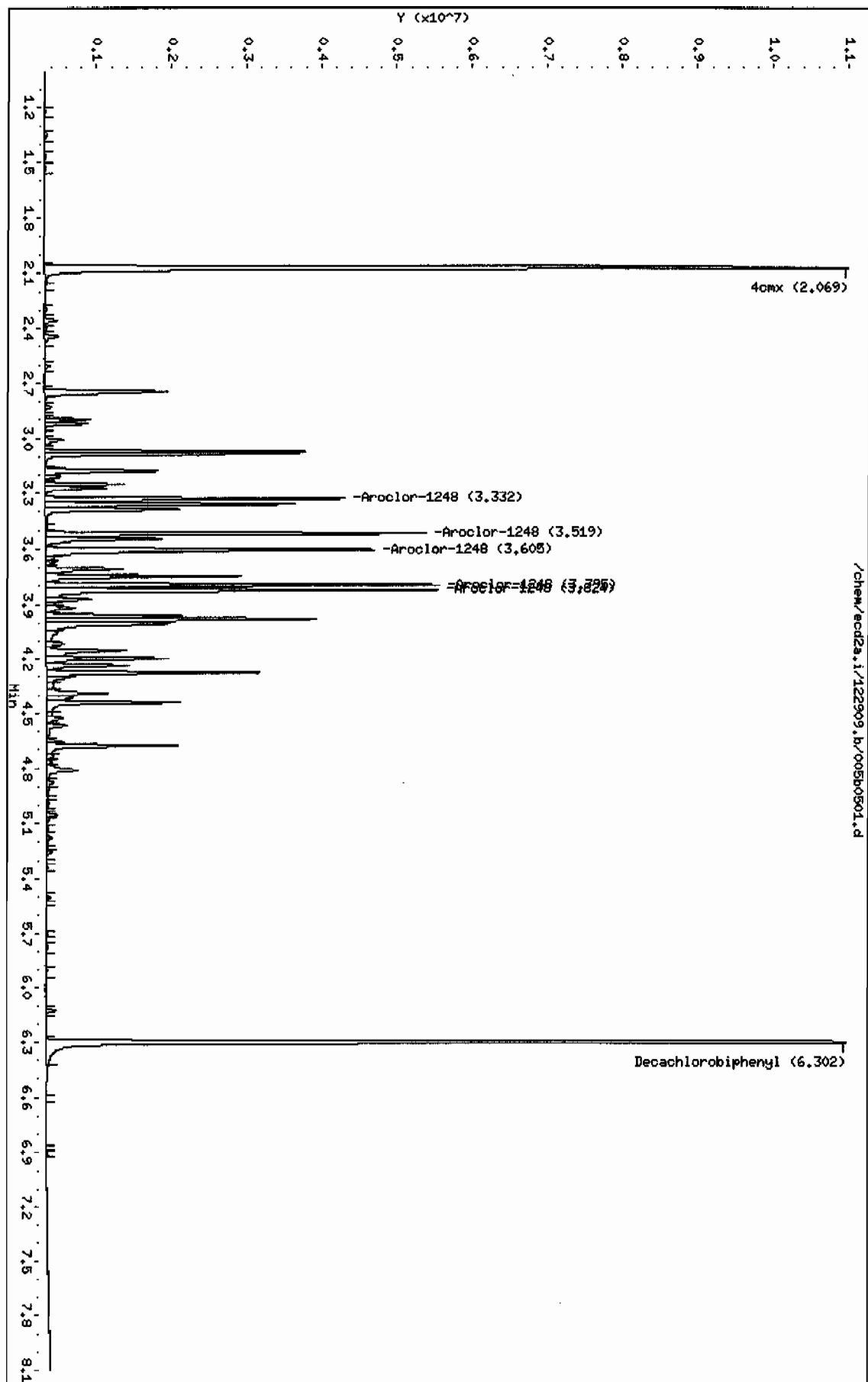
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
2.069	2.068	0.001	16057466 100.000	124	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	14981334 100.000	133	80.00- 120.00	100.00
<hr/>						
5 Aroclor-1248				CAS #: 12672-29-6		
3.332	3.332	0.000	3275090 1000.00	998	80.00- 120.00	100.00
3.519	3.519	0.000	4196280 1000.00	1000	108.13- 148.13	128.13
3.605	3.605	0.000	4475627 1000.00	1000	116.66- 156.66	136.66
3.795	3.795	0.000	4536185 1000.00	966	118.51- 158.51	138.51
3.824	3.824	0.000	5374355 1000.00	997	144.10- 184.10	164.10
Average of Peak Amounts =				994		

Data File: /chem/ecd2a.i/122909.b/005b0501.d
Date: 29-DEC-2009 07:59
Client ID: AR124801
Sample Info: 1MAR091217-48

Column phase: CLP2

Instrument: ecd2a.i
Operator: J90C
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/006f0601.d

Lab Smp Id: WAR090930-32

Client Smp ID: AR123201

Inj Date : 29-DEC-2009 08:17

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR090930-32

Misc Info : |PCB_CVS|1232||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.772	1.771	0.001	10114890	100.000	162	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.616	5.607	0.009	9874511	100.000	182	80.00- 120.00	100.00

3 Aroclor-1232					CAS #: 11141-16-5		
2.027	2.027	0.000	1546440	1000.00	1330	80.00- 120.00	100.00
2.277	2.277	0.000	1232894	1000.00	1320	59.72- 99.72	79.72
2.693	2.693	0.000	1048268	1000.00	1310	47.79- 87.79	67.79
2.736	2.736	0.000	666971	1000.00	1310	23.13- 63.13	43.13
2.981	2.981	0.000	767292	1000.00	1310	29.62- 69.62	49.62
Average of Peak Amounts =					1.32e+03		

Data File: /chem/ecd2a.i/122909.b/006f0601.d

Date : 29-DEC-2009 08:17

Client ID: PR123201

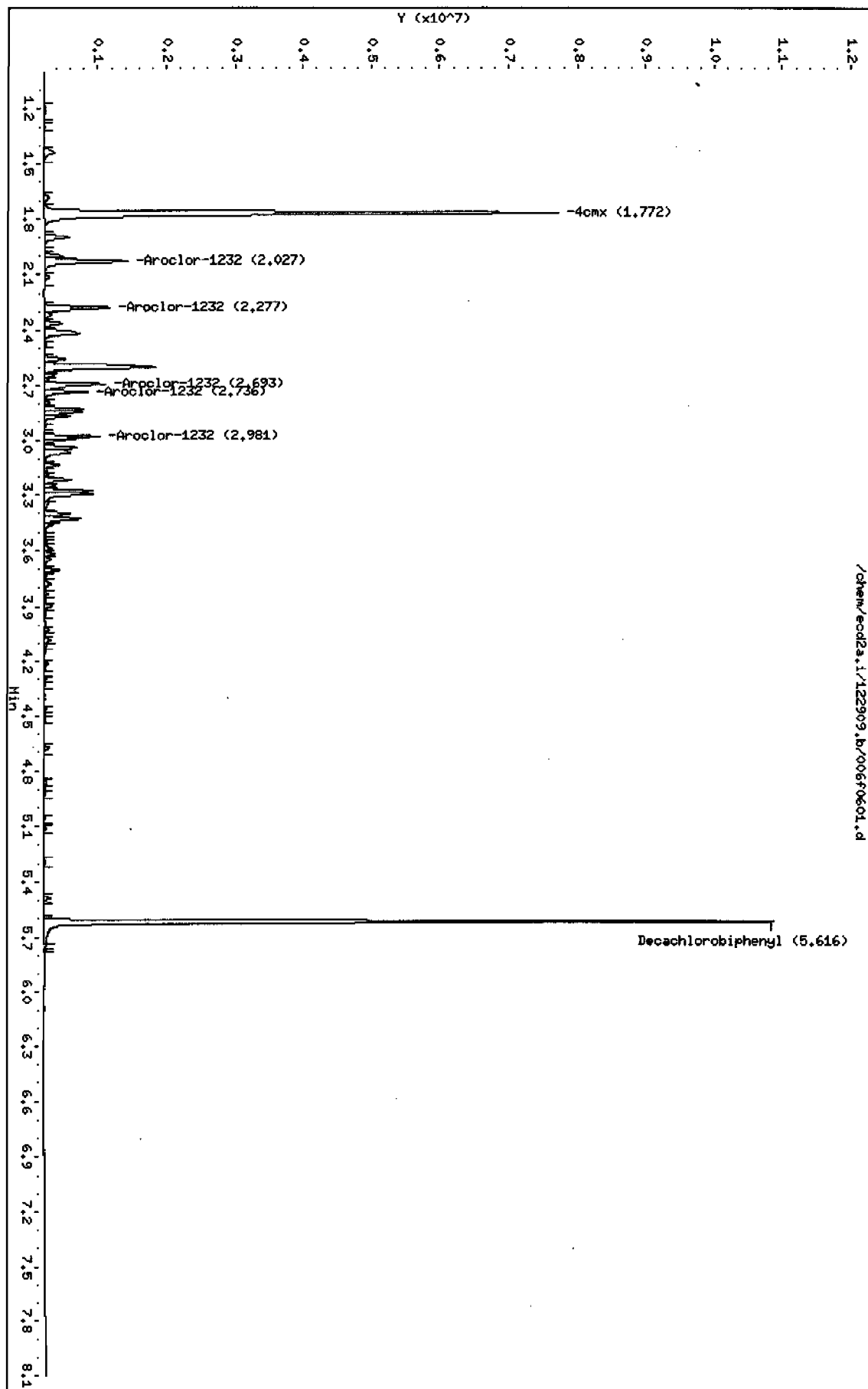
Sample Info: 14KR090930-32

Column phase: CLP1

Instrument: ecd2a.i

Operator: JROC

Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/006b0601.d
Report Date: 29-Dec-2009 14:44

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25-mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/006b0601.d

Lab Smp Id: WAR090930-32 Client Smp ID: AR123201

Inj Date : 29-DEC-2009 08:17

Operator : JAOC Inst ID: ecd2a.i

Smp Info : |WAR090930-32

Misc Info : |PCB_CVS|1232| |CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:43 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d

Als bottle: 6 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO

\$ 11 4cmx				CAS #: 877-09-8		
2.069	2.068	0.001	22199517 100.000	172	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.304	6.300	0.004	21227910 100.000	188	80.00- 120.00	100.00

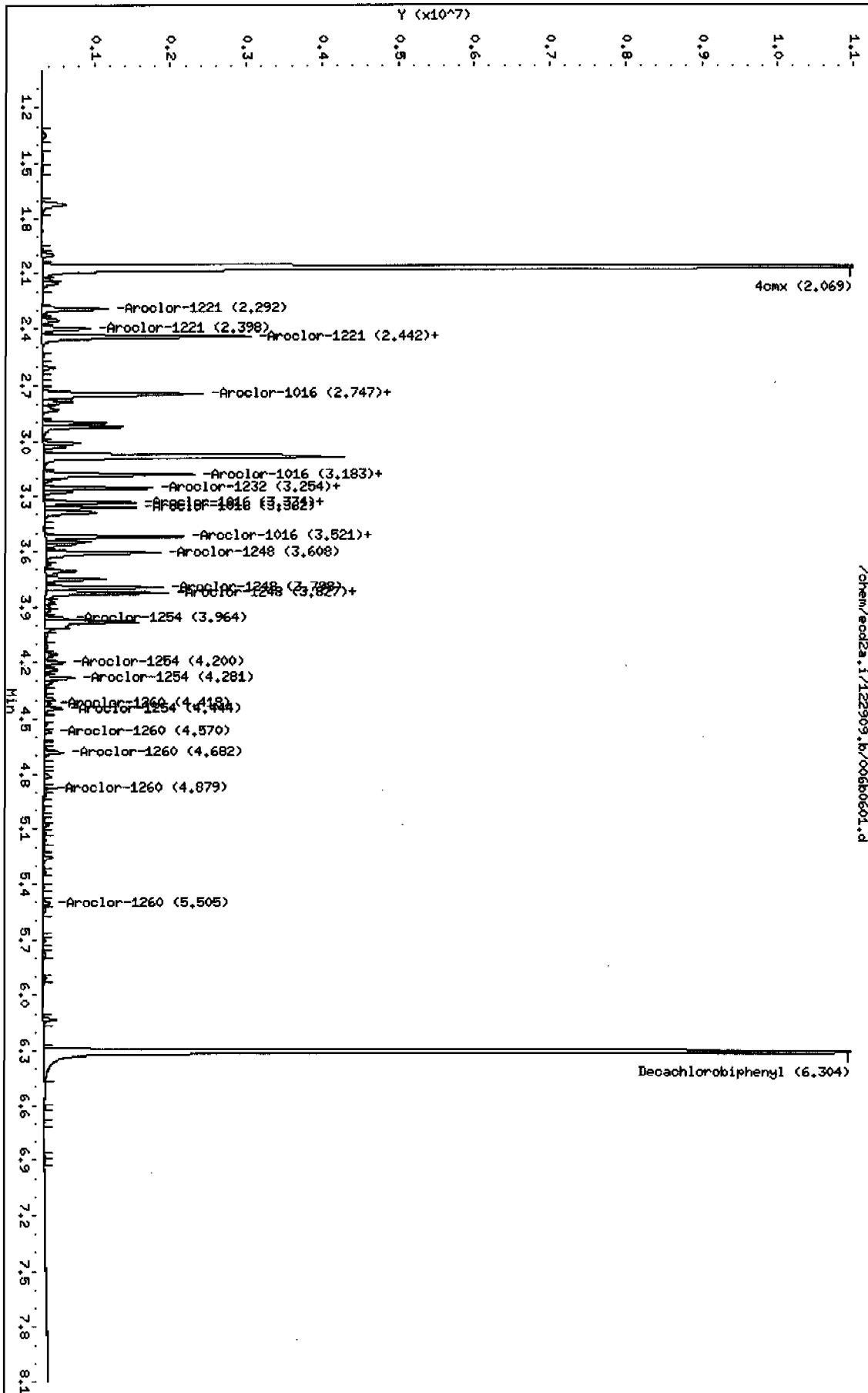
3 Aroclor-1232				CAS #: 11141-16-5		
2.442	2.442	0.000	2893358 1000.00	1400	80.00- 120.00	100.00
2.747	2.747	0.000	2666991 1000.00	1360	72.18- 112.18	92.18
3.183	3.183	0.000	1975790 1000.00	1320	48.29- 88.29	68.29
3.254	3.254	0.000	1214623 1000.00	1300	21.98- 61.98	41.98
3.521	3.521	0.000	1476417 1000.00	1330	31.03- 71.03	51.03
Average of Peak Amounts =			1.34e+03			

Data File: /chem/ecod2a.i/122909.b/006b0601.d
Date: 29-DEC-2009 08:17
Client ID: AR123201
Sample Info: IMA909030-32

Column phase: CLP2

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd2a.i/122909.b/007f0701.d
Report Date: 29-Dec-2009 14:38

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/007f0701.d
Lab Smp Id: WAR091111-21 Client Smp ID: AR122101
Inj Date : 29-DEC-2009 08:28
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091111-21
Misc Info : |PCB_CVS|1262||CVS|
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (ug/L)	TARGET RANGE	RATIO

\$ 11 4cmx					CAS #: 877-09-8		
1.770	1.771	-0.001	7024932	100.000	113	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.610	5.607	0.003	6697965	100.000	124	80.00- 120.00	100.00

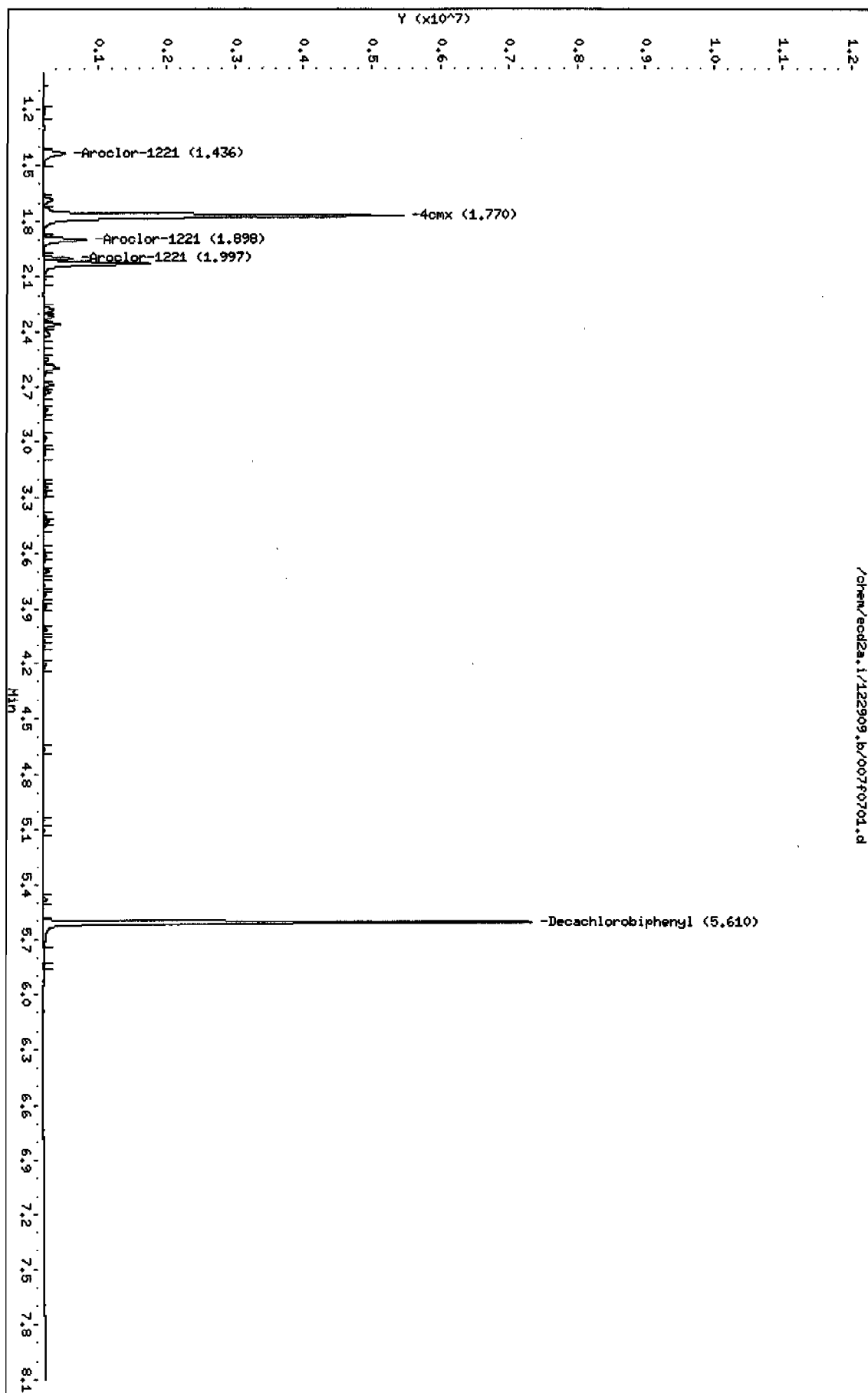
2 Aroclor-1221					CAS #: 11104-28-2		
1.436	1.436	0.000	558071	1000.00	1200	80.00- 120.00	100.00
1.898	1.898	0.000	800768	1000.00	1220	123.49- 163.49	143.49
1.997	1.997	0.000	428834	1000.00	1240	56.84- 96.84	76.84
Average of Peak Amounts =			1.22e+03				

Data File: /chem/ecod2a.i/122909.b/007f0701.d
Date: 29-DEC-2009 08:28
Client ID: AR122101
Sample Info: IMR091111-21

Column phase: CLP1

Instrument: ecod2a.i
Operator: JAC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/007b0701.d
 Lab Smp Id: WAR091111-21 Client Smp ID: AR122101
 Inj Date : 29-DEC-2009 08:28
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091111-21
 Misc Info : |PCB_CVS|1262| |CVS|
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 13:36 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 7 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1221.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
\$ 11 4cmx				CAS #: 877-09-8		
2.068	2.068	0.000	14992798 100.000	116	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	14125451 100.000	125	80.00- 120.00	100.00
2 Aroclor-1221				CAS #: 11104-28-2		
2.292	2.292	0.000	1486678 1000.00	1180	80.00- 120.00	100.00
2.397	2.397	0.000	909190 1000.00	1170	41.16- 81.16	61.16
2.442	2.442	0.000	3573346 1000.00	1170	220.36- 260.36	240.36
Average of Peak Amounts =			1.17e+03			

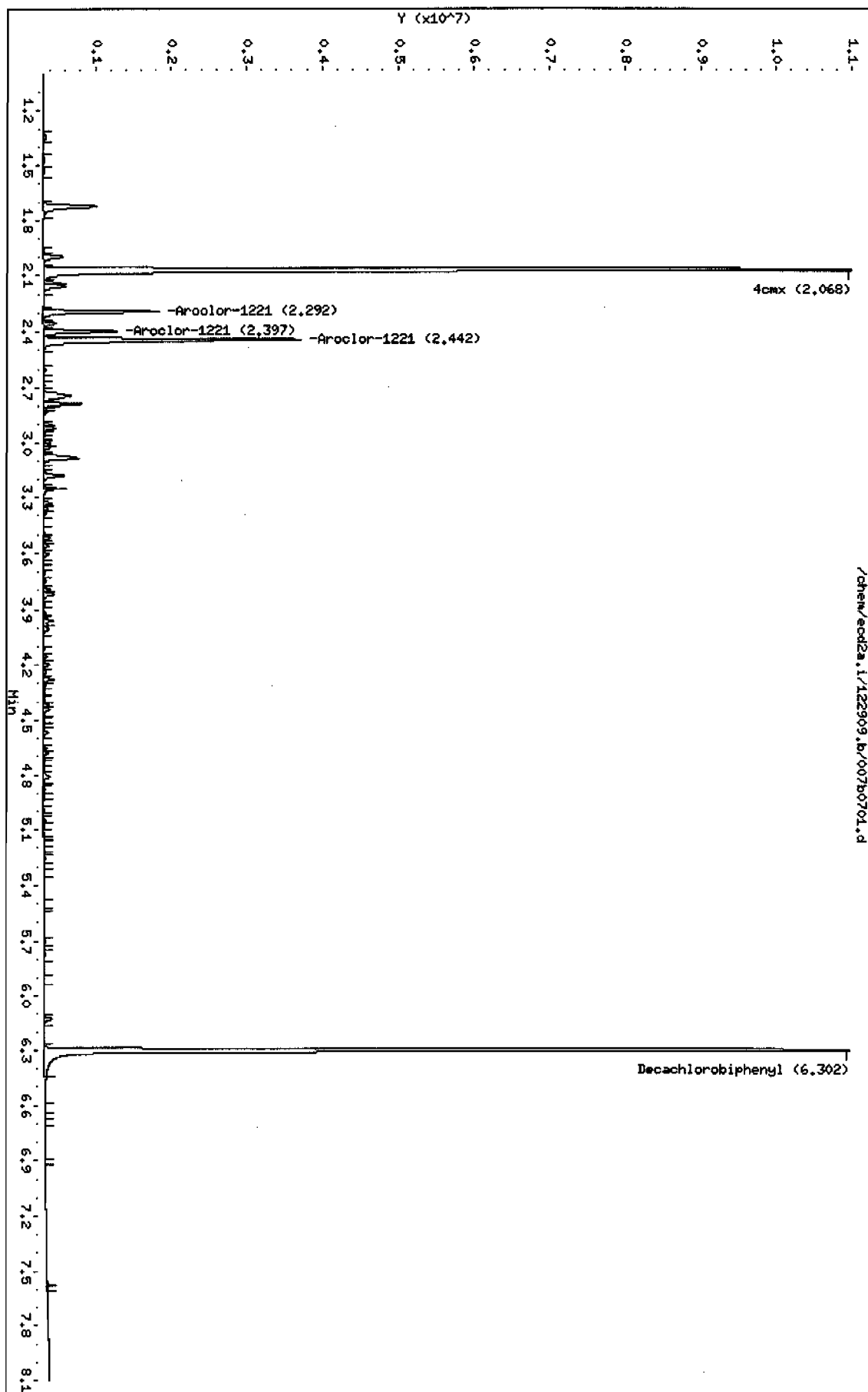
Data File: /chem/eod2a.i/122909.b/007b0701.d
Date: 29-DEC-2009 09:28
Client ID: AR122101
Sample Info: I4AR091111-21

Instrument: eod2a.i

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Column phase: CLP2

Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/022f2201.d

Lab Smp Id: WAR091211-60 02

Client Smp ID: AR166002

Inj Date : 29-DEC-2009 11:17

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 02

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 22

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
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\$ 11 4cmx

CAS #: 877-09-8

1.775	1.771	0.004	6459140	100.000	104 80.00- 120.00	100.00
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\$ 12 Decachlorobiphenyl

CAS #: 2051-24-3

5.610	5.607	0.003	5977776	100.000	110 80.00- 120.00	100.00
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1 Aroclor-1016

CAS #: 12674-11-2

2.276	2.273	0.003	2015417	1000.00	901 80.00- 120.00	100.00
2.600	2.597	0.003	4292741	1000.00	916 192.49- 232.49	213.00
2.691	2.688	0.003	1720292	1000.00	905 64.38- 104.38	85.36
2.826	2.823	0.003	868251	1000.00	890 22.92- 62.92	43.08
2.976	2.974	0.002	1328140	1000.00	911 43.84- 83.84	65.90

Average of Peak Amounts =

904

7 Aroclor-1260

CAS #: 11096-82-5

4.016	4.014	0.002	4128857	1000.00	991 80.00- 120.00	100.00
4.287	4.286	0.001	2595441	1000.00	1000 42.56- 82.56	62.86
4.453	4.451	0.002	2674421	1000.00	1020 44.13- 84.13	64.77
4.666	4.664	0.002	6344393	1000.00	1040 133.57- 173.57	153.66
4.855	4.853	0.002	3057700	1000.00	1040 53.66- 93.66	74.06

Average of Peak Amounts =

1.02e+03

Data File: /chem/eod2a.i/122909.b/022f2201.d

Date: 29-DEC-2009 11:17

Client ID: AR16002

Sample Info: 146091211-60 02

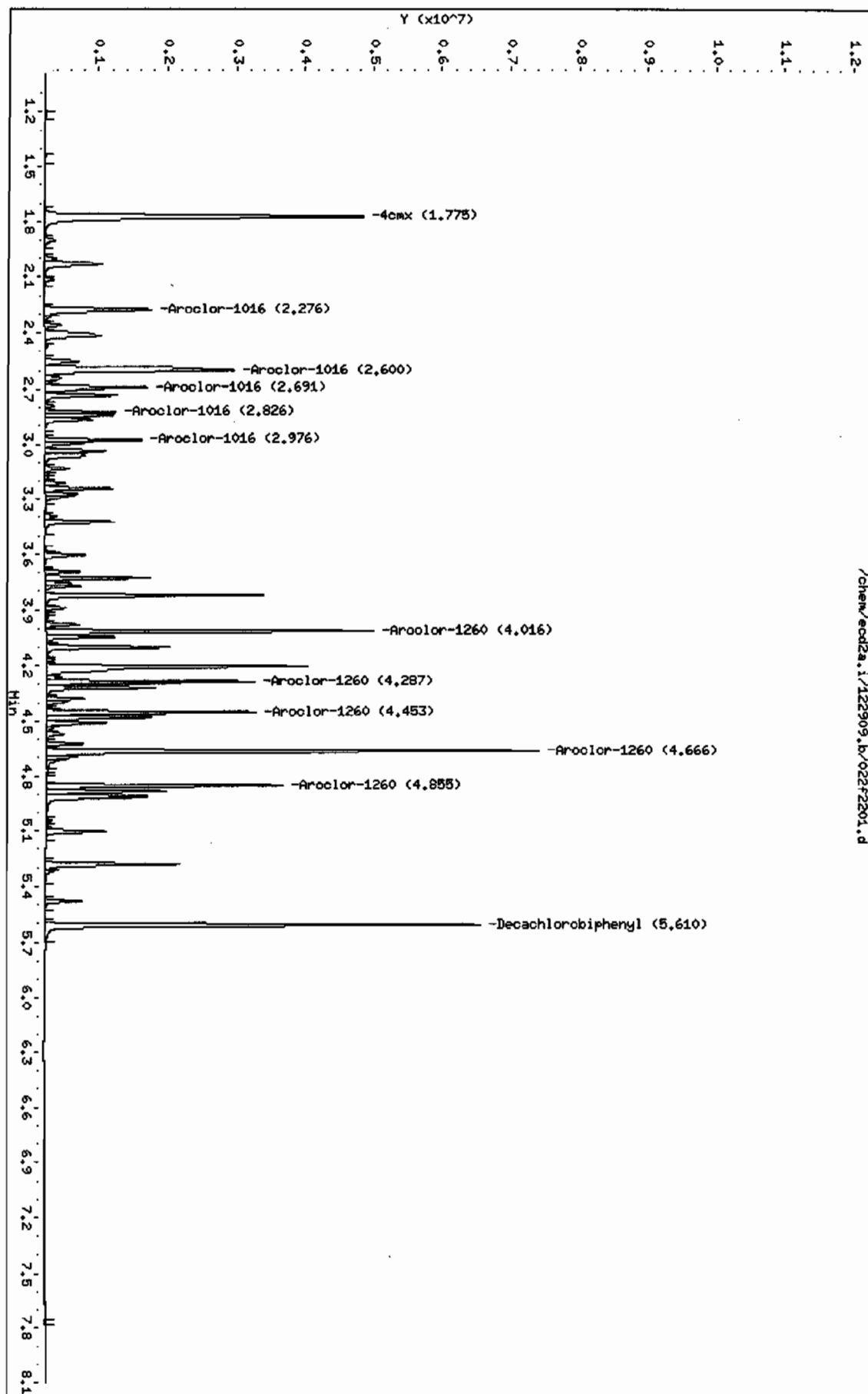
Column Phase: CLP1

Instrument: eod2a.i

Operator: JMO

Column diameter: 0.25

/chem/eod2a.i/122909.b/022f2201.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/022b2201.d

Lab Smp Id: WAR091211-60 02

Client Smp ID: AR166002

Inj Date : 29-DEC-2009 11:17

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091211-60 02

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m

Meth Date : 29-Dec-2009 14:45 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 22

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
2.071	2.068	0.003	13896545 100.000	107	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.302	6.300	0.002	12620643 100.000	112	80.00- 120.00	100.00

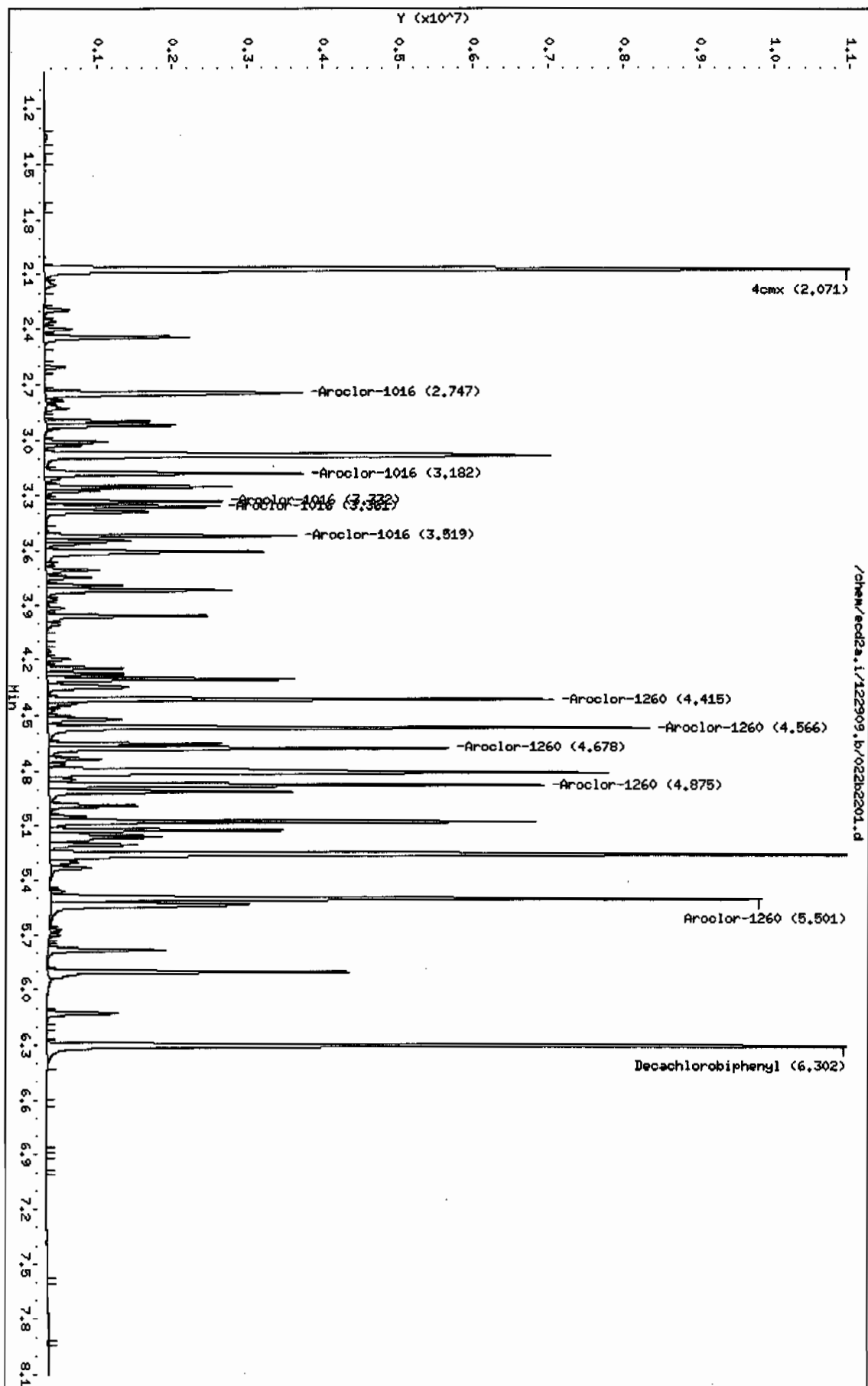
1 Aroclor-1016				CAS #: 12674-11-2		
2.747	2.745	0.002	4206631 1000.00	927	80.00- 120.00	100.00
3.182	3.179	0.003	3357192 1000.00	932	59.81- 99.81	79.81
3.332	3.330	0.002	1937576 1000.00	944	26.06- 66.06	46.06
3.361	3.359	0.002	2015700 1000.00	943	27.92- 67.92	47.92
3.519	3.518	0.001	2726459 1000.00	950	44.81- 84.81	64.81
Average of Peak Amounts =				939		

7 Aroclor-1260				CAS #: 11096-82-5		
4.415	4.414	0.001	5723117 1000.00	992	80.00- 120.00	100.00
4.566	4.565	0.001	7231224 1000.00	1020	106.35- 146.35	126.35
4.678	4.677	0.001	4952700 1000.00	1030	66.54- 106.54	86.54
4.875	4.874	0.001	5709014 1000.00	1010	79.75- 119.75	99.75
5.501	5.500	0.001	9420244 1000.00	1040	144.60- 184.60	164.60
Average of Peak Amounts =				1.02e+03		

Data File: /chem/eod2a.i/122909.b/022b2201.d
Date : 29-DEC-2009 11:17
Client ID: AR16002
Sample Info: 1MAR091211-60 02

Column phase: CLP2

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd2a.i/123109.b/003f0301.d
Report Date: 04-Jan-2010 08:14

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 31-DEC-2009 07:53

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091216-54

Misc Info : |PCB_CVS|1254||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.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	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.773	1.772	0.001	6854959	100.000	110	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.607	5.608	-0.001	6470501	100.000	120	80.00- 120.00	100.00	

6 Aroclor-1254					CAS #: 11097-69-1			
3.241	3.241	0.000	1992086	1000.00	958	80.00- 120.00	100.00	
3.424	3.424	0.000	2639738	1000.00	952	112.51- 152.51	132.51	
3.694	3.694	0.000	3653581	1000.00	976	163.40- 203.40	183.40	
3.885	3.885	0.000	2701508	1000.00	971	115.61- 155.61	135.61	
4.014	4.014	0.000	2783549	1000.00	1010	119.73- 159.73	139.73	
Average of Peak Amounts =					973			

Data File: /chem/ecod2a.i/123109.b/003f0301.d

Date : 31-DEC-2009 07:53

Client ID: AR125401

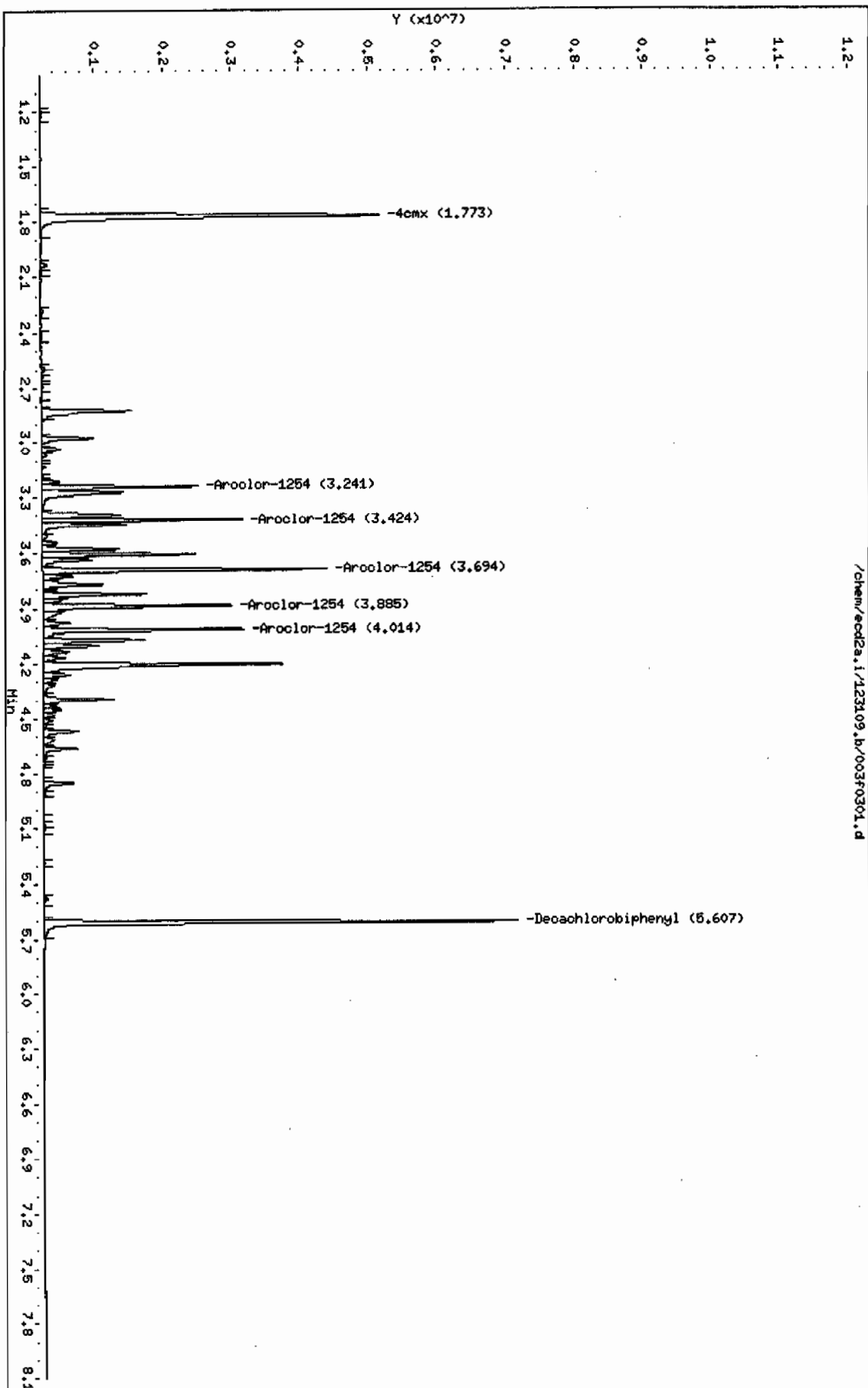
Sample Info: 14R091216-54

Column phase: CLP1

Instrument: ecod2a.i

Operator: JADC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/003b0301.d

Lab Smp Id: WAR091216-54 Client Smp ID: AR125401

Inj Date : 31-DEC-2009 07:53

Operator : JAOC Inst ID: ecd2a.i

Smp Info : |WAR091216-54

Misc Info : |PCB_CVS|1254||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.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
----	--------	--------	------------------	---------	--------------	-------

\$ 11 4cmx				CAS #: 877-09-8		
2.069	2.069	0.000	14923306 100.000	115 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.300	6.300	0.000	13835961 100.000	123 80.00- 120.00	100.00	

6 Aroclor-1254				CAS #: 11097-69-1		
3.817	3.817	0.000	4938469 1000.00	991 80.00- 120.00	100.00	
3.958	3.958	0.000	5626923 1000.00	970 93.94- 133.94	113.94	
4.195	4.195	0.000	4024489 1000.00	1000 61.49- 101.49	81.49	
4.276	4.276	0.000	7708238 1000.00	997 136.09- 176.09	156.09	
4.439	4.439	0.000	5503412 1000.00	981 91.44- 131.44	111.44	

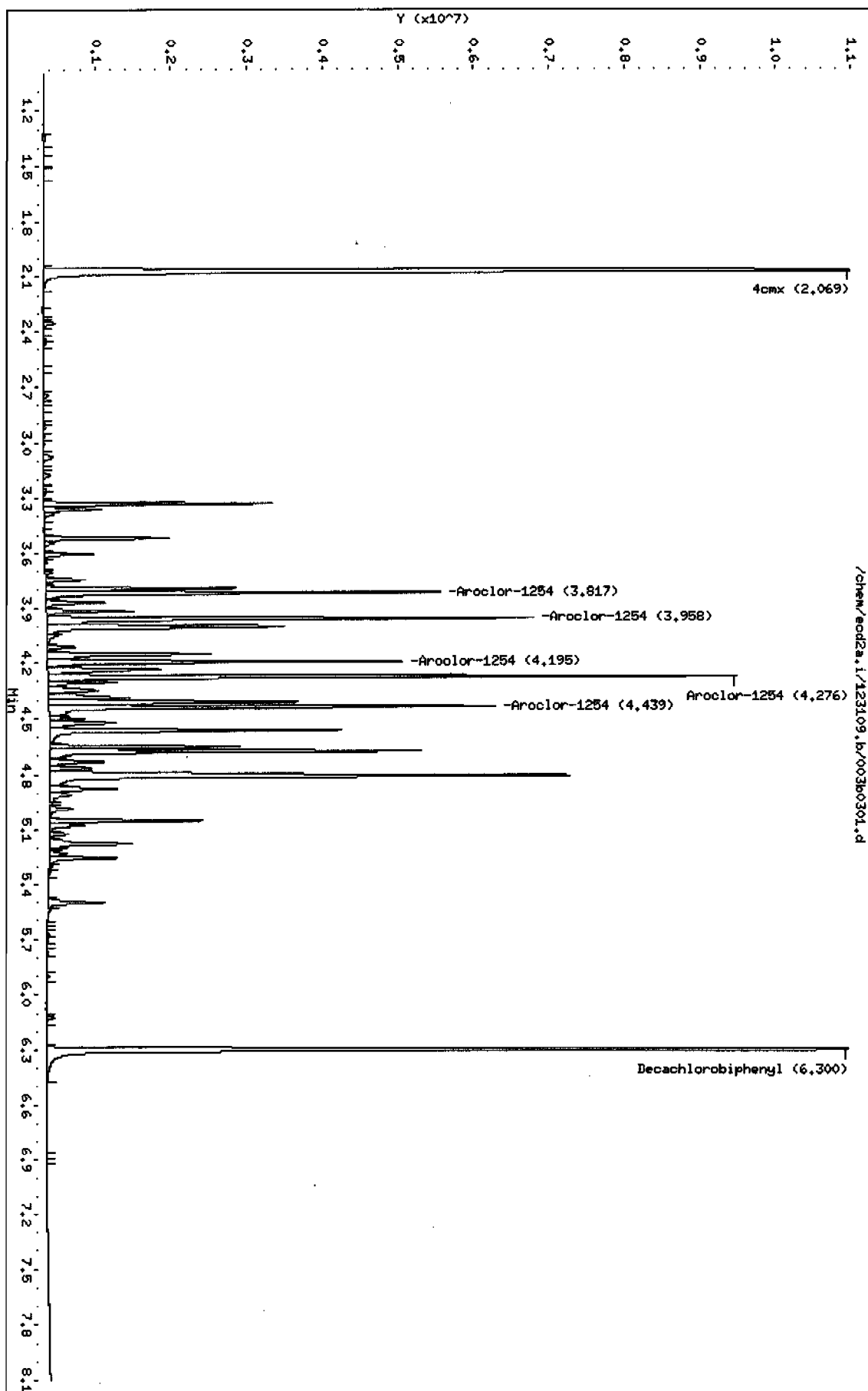
Average of Peak Amounts = 988

Data File: /chem/ecd2a.i/123109.b/003b0301.d
Date: 31-DEC-2009 07:53
Client ID: AR125401
Sample Info: 1MAR091216-54

Column phase: CLP2

Instrument: ecd2a.i
Operator: JHOC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 31-DEC-2009 08:04

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-42

Misc Info : |PCB_CVS|1242||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 08:01 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.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
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.773	1.772	0.001	6933955	100.000	111	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.608	5.608	0.000	6549118	100.000	121	80.00- 120.00	100.00

4 Aroclor-1242					CAS #: 53469-21-9		
2.275	2.275	0.000	1822573	1000.00	1050	80.00- 120.00	100.00
2.689	2.689	0.000	1517681	1000.00	1020	63.27- 103.27	83.27
2.732	2.732	0.000	935418	1000.00	1030	31.32- 71.32	51.32
2.824	2.824	0.000	759872	1000.00	1040	21.69- 61.69	41.69
2.975	2.975	0.000	1158382	1000.00	1030	43.56- 83.56	63.56
Average of Peak Amounts =				1.04e+03			

Data File: /chem/eod2a.i/123109.b/004f0401.d

Date: 31-DEC-2009 08:04

Client ID: AR124201

Sample Info: 1MAR091217-42

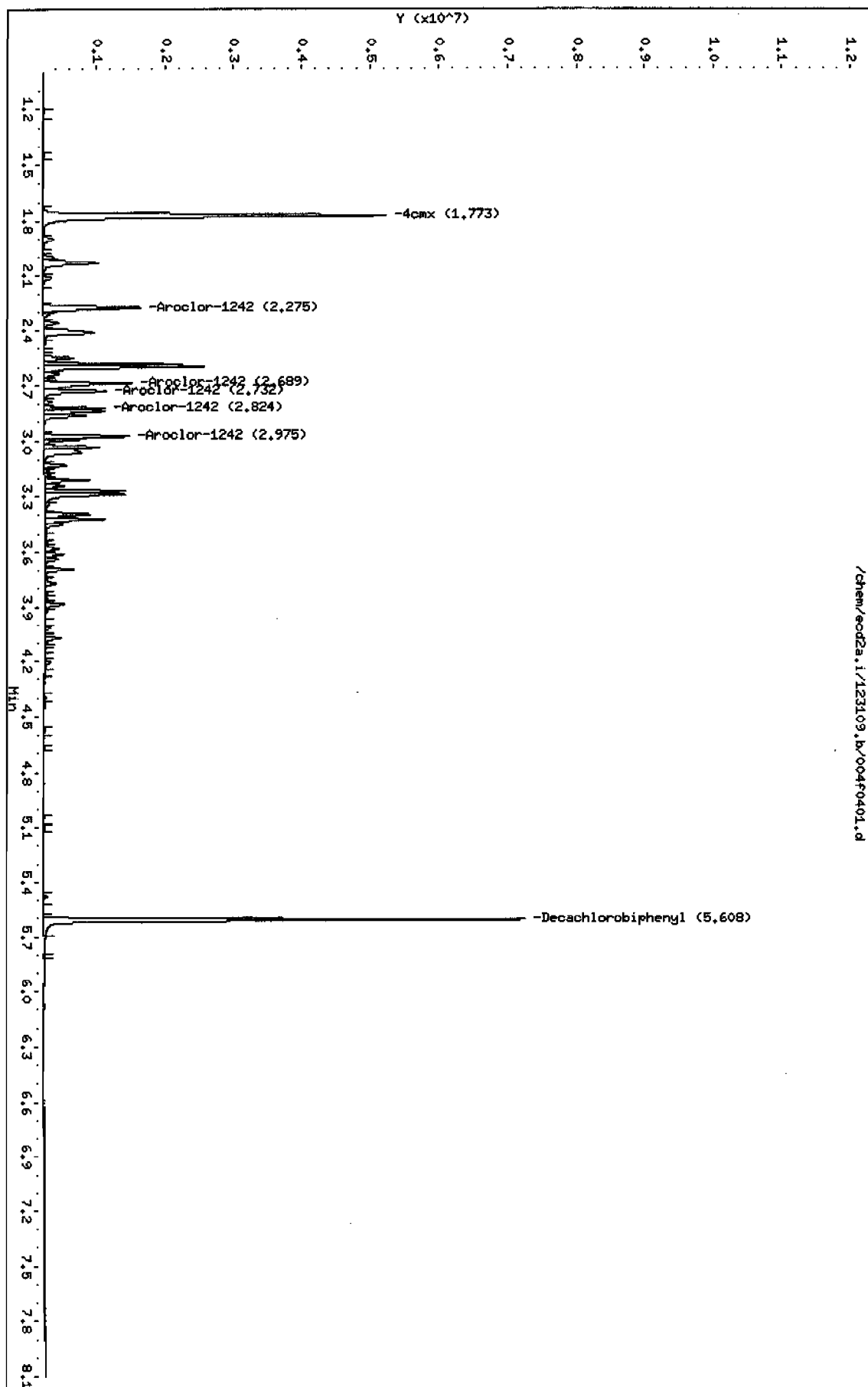
Page 1

Column phase: CLP1

Instrument: eod2a.i

Operator: JMC

Column diameter: 0.25



Data File: /chem/ecd2a.i/123109.b/004b0401.d
Report Date: 04-Jan-2010 08:14

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 31-DEC-2009 08:04

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-42

Misc Info : |PCB_CVS|1242||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.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
---	-----	-----	-----	-----	-----	-----
\$ 11 4cmx				CAS #: 877-09-8		
2.070	2.069	0.001	15022819 100.000	116	80.00- 120.00	100.00

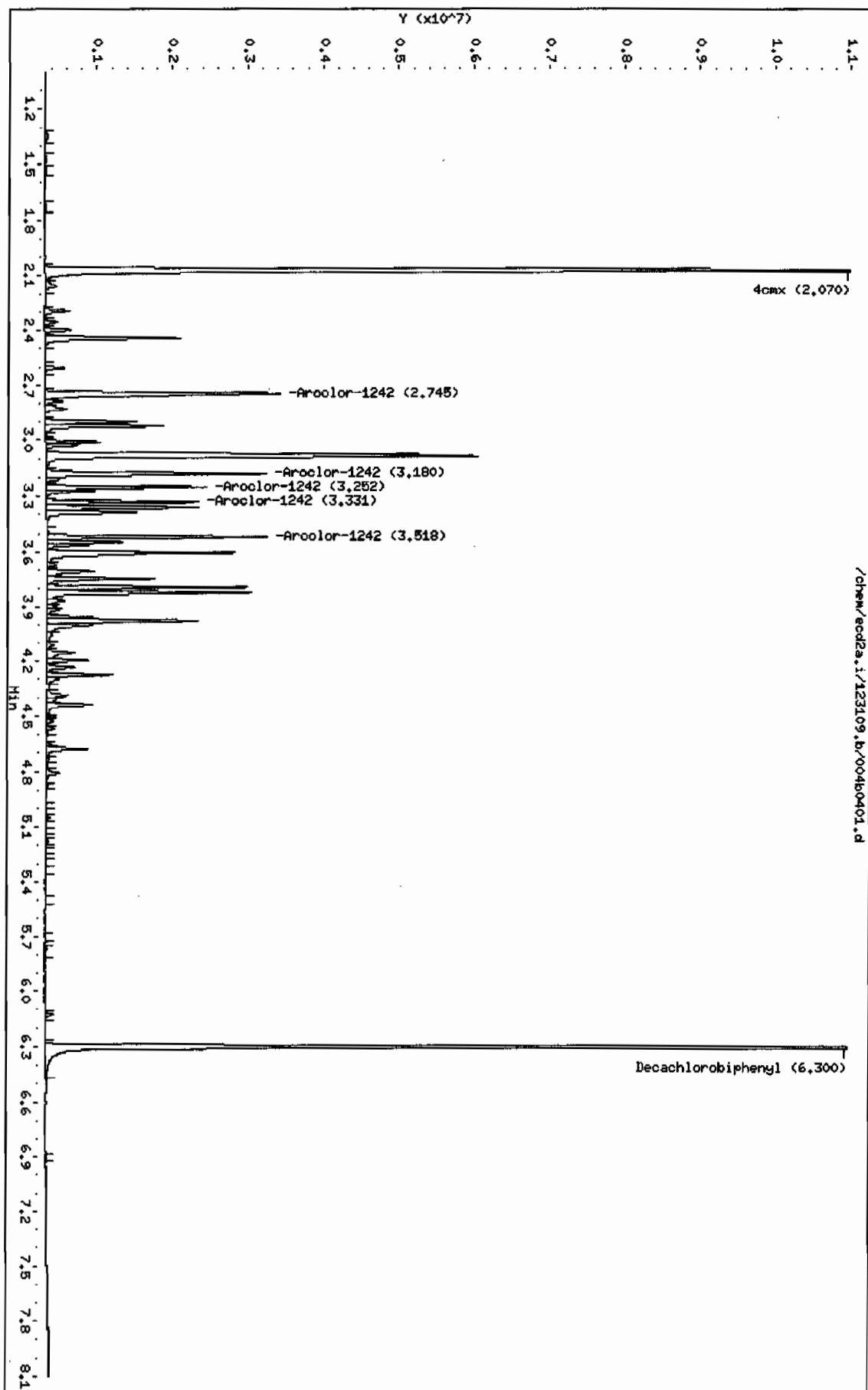
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.300	6.300	0.000	14003896 100.000	124	80.00- 120.00	100.00

4 Aroclor-1242				CAS #: 53469-21-9		
2.745	2.745	0.000	3823027 1000.00	1110	80.00- 120.00	100.00
3.180	3.180	0.000	2891050 1000.00	1080	55.62- 95.62	75.62
3.252	3.252	0.000	1726613 1000.00	1060	25.16- 65.16	45.16
3.331	3.331	0.000	1630369 1000.00	1080	22.65- 62.65	42.65
3.518	3.518	0.000	2379103 1000.00	1110	42.23- 82.23	62.23
Average of Peak Amounts =				1.09e+03		

Data File: /chem/eod2a.i/123109.b/004b0401.d
Date: 31-DEC-2009 08:04
Client ID: AR124201
Sample Info: 1HAR091217-42

Column phase: CLP2

Instrument: eod2a.i
Operator: JAC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 31-DEC-2009 08:15

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-48

Misc Info : |PCB_CVS|1248||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 09:25 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.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	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
1.773	1.772	0.001	7658899	100.000	123	80.00~ 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.608	5.608	0.000	7261271	100.000	134	80.00~ 120.00	100.00	

5 Aroclor-1248					CAS #: 12672-29-6			
2.824	2.824	0.000	1574202	1000.00	1030	80.00~ 120.00	100.00 (M)	
2.975	2.975	0.000	2102325	1000.00	1040	113.55~ 153.55	133.55	
3.035	3.035	0.000	1657408	1000.00	1060	85.29~ 125.29	105.29	
3.269	3.269	0.000	2306614	1000.00	1040	126.53~ 166.53	146.53	
3.422	3.422	0.000	1958216	1000.00	1020	104.39~ 144.39	124.39	
Average of Peak Amounts =					1.04e+03			

QC Flag Legend

M - Compound response manually integrated.

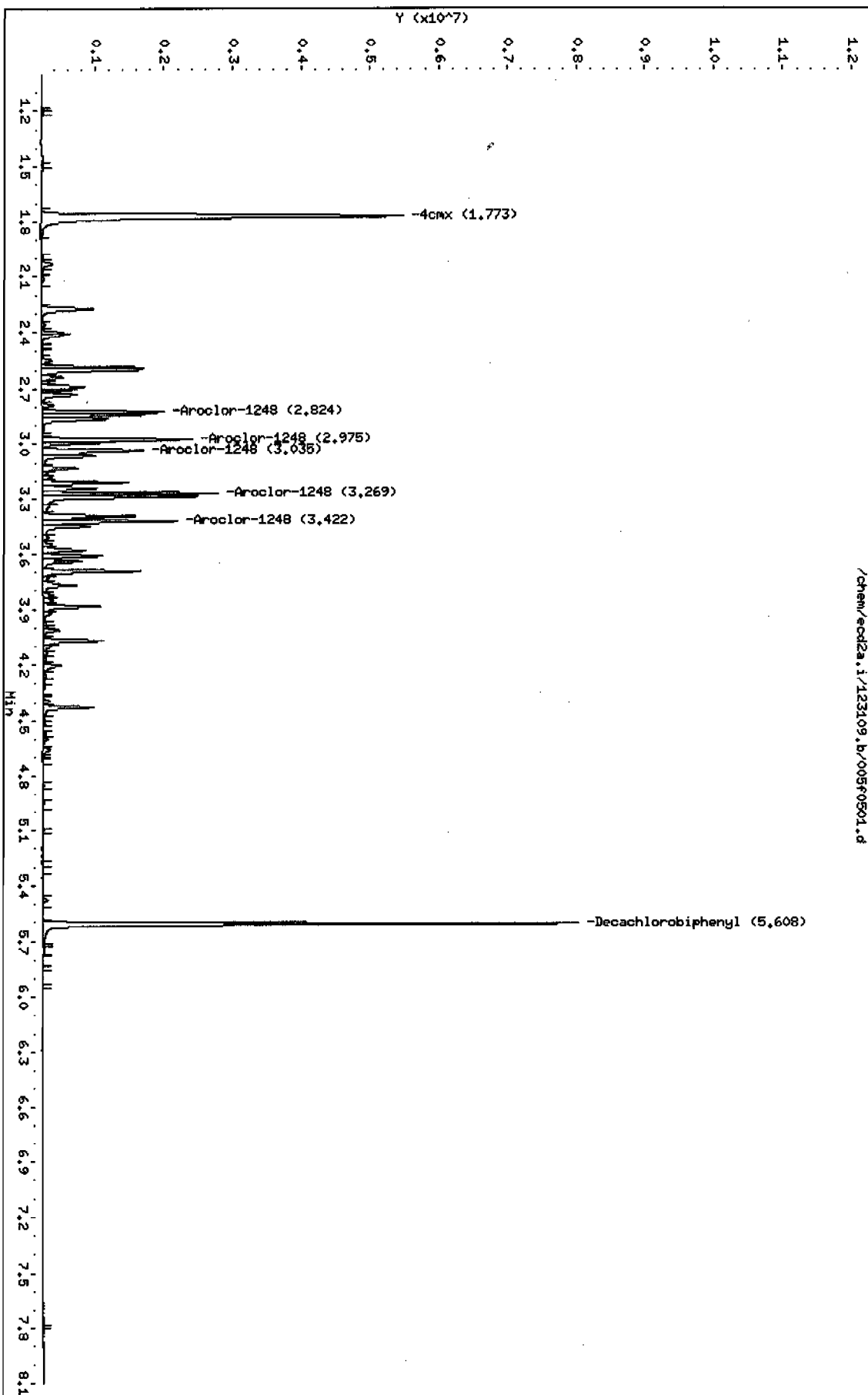
Data File: /chem/ecod2a.i/123109.b/005f0501.d
Date: 31-DEC-2009 08:15
Client ID: AR124801
Sample Info: IMR091217-48

Instrument: ecod2a.i

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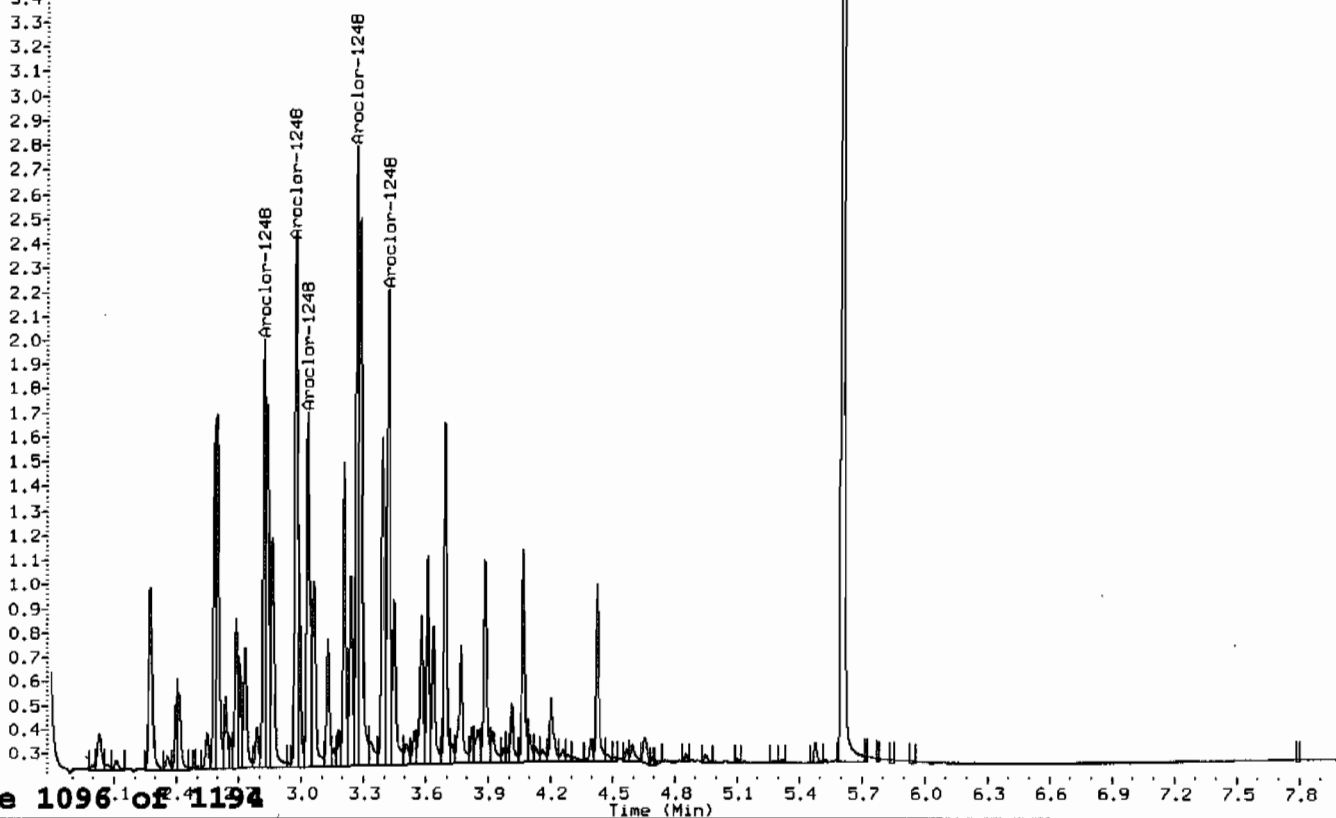
Column phase: CLP1

Operator: JROC
Column diameter: 0.25



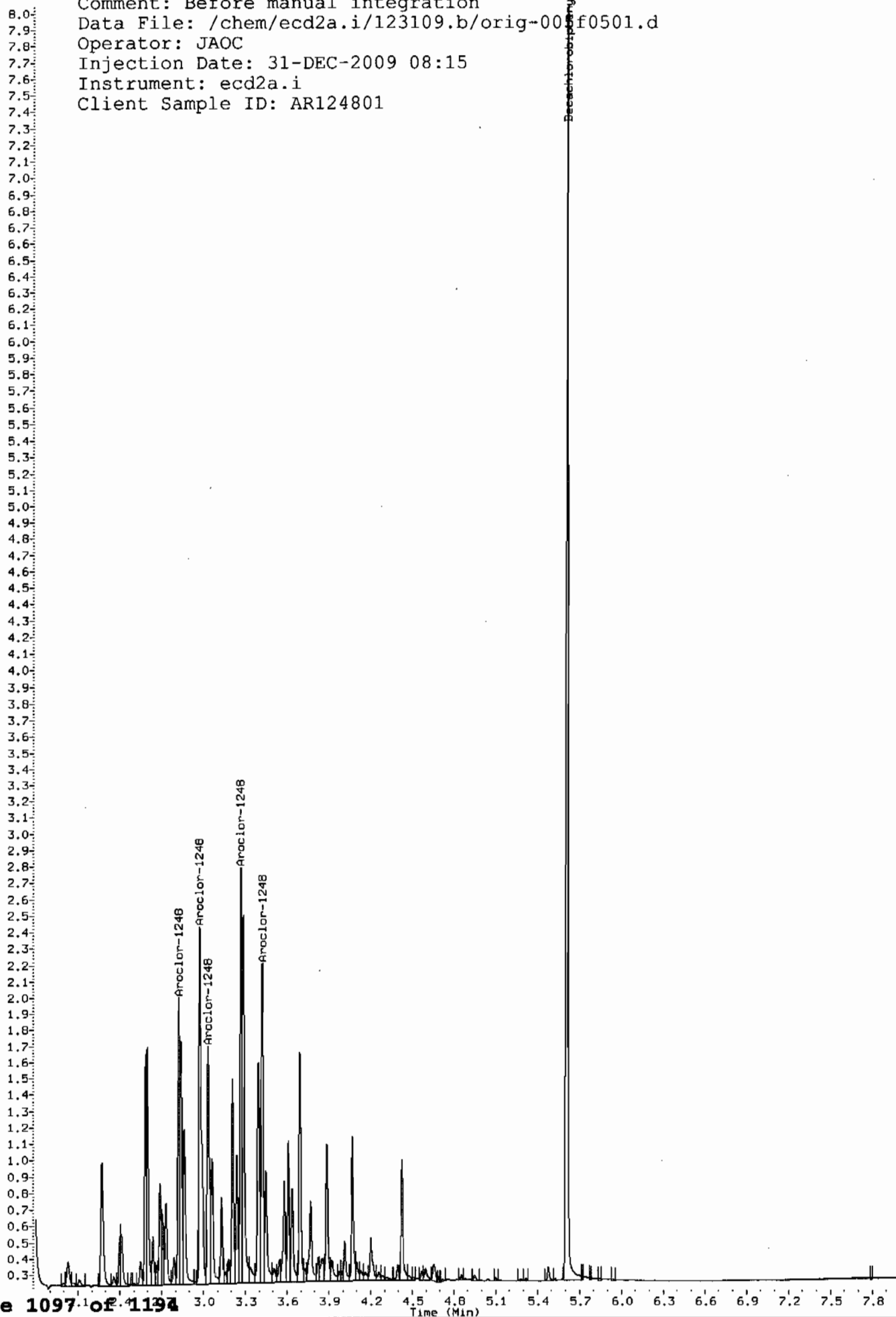
Comment: Manually Integrated
Data File: /chem/ecd2a.i/123109.b/005f0501.d
Operator: JAOC
Injection Date: 31-DEC-2009 08:15
Instrument: ecd2a.i
Client Sample ID: AR124801

Y (x10⁶)



Comment: Before manual integration
Data File: /chem/ecd2a.i/123109.b/orig-000f0501.d
Operator: JAOC
Injection Date: 31-DEC-2009 08:15
Instrument: ecd2a.i
Client Sample ID: AR124801

Y (x10⁶)



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 31-DEC-2009 08:15

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091217-48

Misc Info : |PCB_CVS|1248||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.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
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.069	2.069	0.000	15354811	100.000	119	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.300	6.300	0.000	15414376	100.000	137	80.00-	120.00	100.00

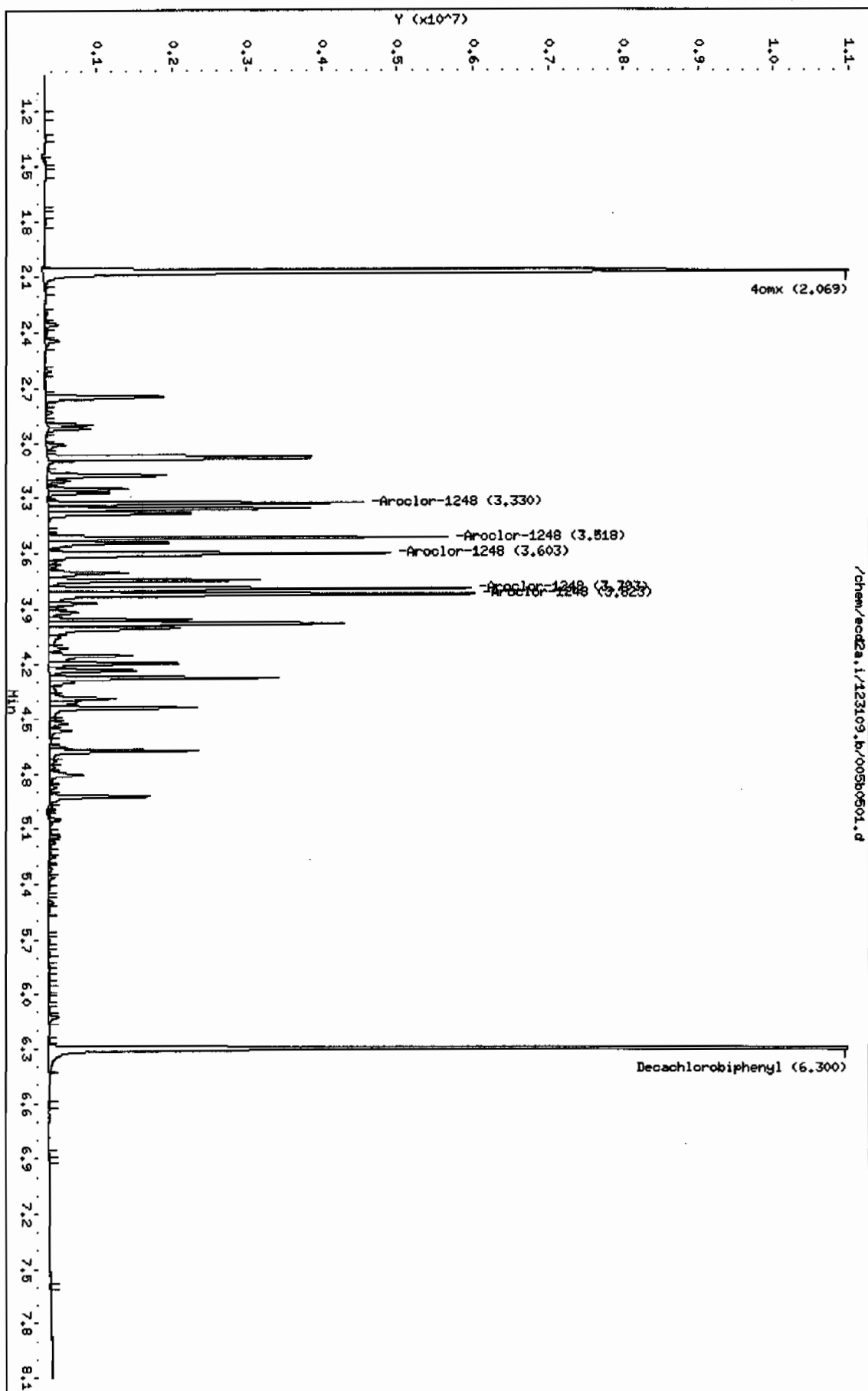
5 Aroclor-1248					CAS #: 12672-29-6			
3.330	3.330	0.000	3396578	1000.00	1030	80.00-	120.00	100.00
3.518	3.518	0.000	4364397	1000.00	1040	108.49-	148.49	128.49
3.603	3.603	0.000	4574852	1000.00	1030	114.69-	154.69	134.69
3.793	3.793	0.000	4810706	1000.00	1020	121.63-	161.63	141.63
3.823	3.823	0.000	5689167	1000.00	1060	147.50-	187.50	167.50
Average of Peak Amounts =					1.04e+03			

Data File: /chem/ecd2a.i/123109.b/005b0501.d
Date: 31-DEC-2009 08:15
Client ID: AR124801
Sample Info: 148091217-48

Column phase: CLP2

Instrument: ecd2a.i
Operator: JAO
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/006f0601.d
 Lab Smp Id: WAR091231-60 01 Client Smp ID: AR166001
 Inj Date : 31-DEC-2009 08:26
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091231-60 01
 Misc Info : |PCB_CVS|1660||CVS|
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.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		
1.772	1.772	0.000	6246428	100.000	100	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.608	5.608	0.000	5889121	100.000	109	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.274	2.274	0.000	2177053	1000.00	973	80.00- 120.00	100.00
2.598	2.598	0.000	4534889	1000.00	968	192.27- 232.27	208.30
2.689	2.689	0.000	1825958	1000.00	960	65.25- 105.25	83.87
2.824	2.824	0.000	927756	1000.00	950	22.83- 62.83	42.62
2.975	2.975	0.000	1379679	1000.00	946	44.32- 84.32	63.37
Average of Peak Amounts =					960		

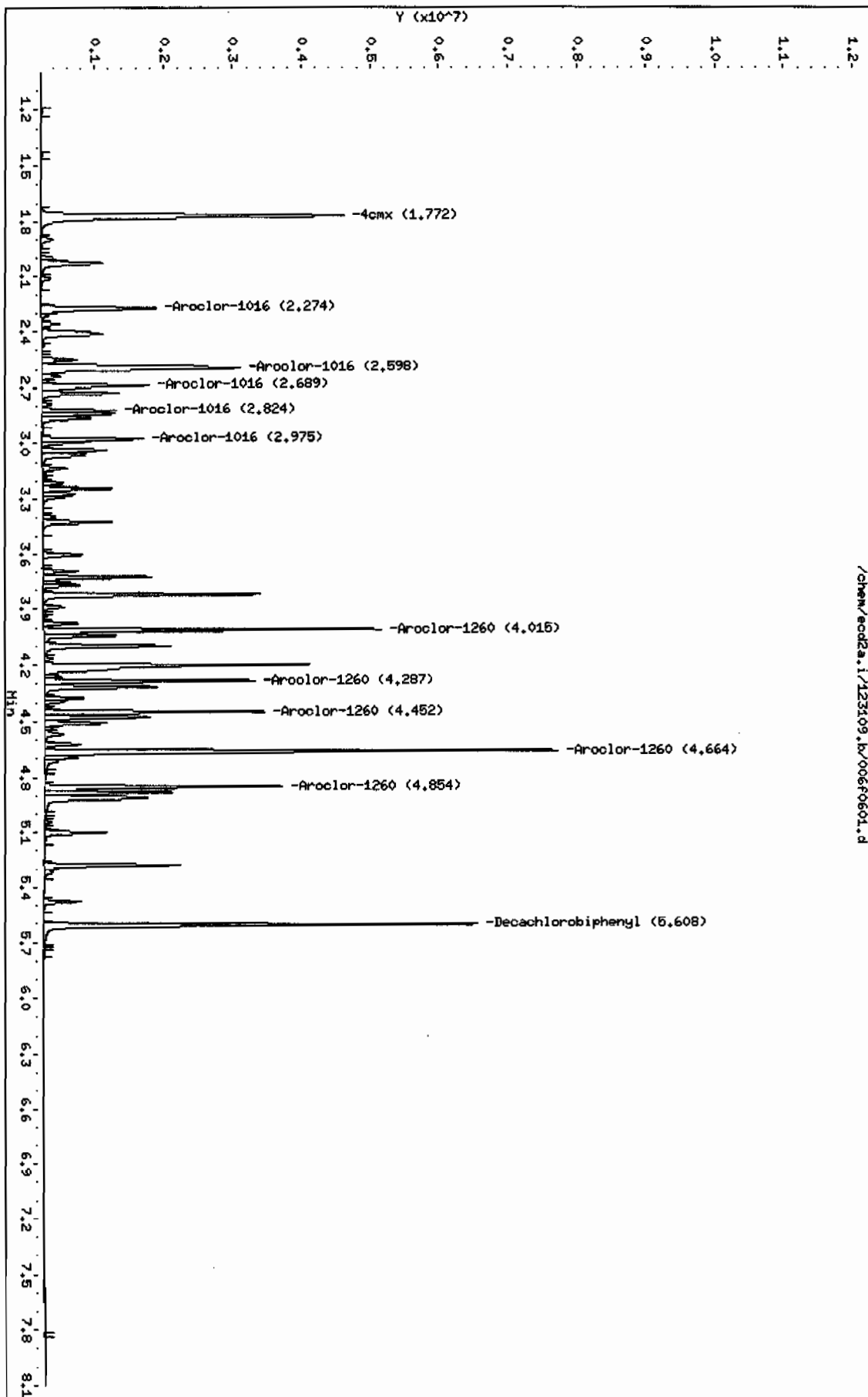
7 Aroclor-1260					CAS #: 11096-82-5		
4.015	4.015	0.000	4244333	1000.00	1020	80.00- 120.00	100.00
4.287	4.287	0.000	2715866	1000.00	1050	42.76- 82.76	63.99
4.452	4.452	0.000	2774898	1000.00	1050	44.99- 84.99	65.38
4.664	4.664	0.000	6495701	1000.00	1070	134.44- 174.44	153.04
4.854	4.854	0.000	3147238	1000.00	1070	55.22- 95.22	74.15
Average of Peak Amounts =					1.05e+03		

Data File: /chem/ecd2a.i/123109.k/006f0601.d
Date: 31-DEC-2009 08:26
Client ID: AR166001
Sample Info: MAR091231-60 01

Column Phase: CLP1

Instrument: ecd2a.i
Operator: JHOC
Column diameter: 0.25

/chem/ecd2a.i/123109.k/006f0601.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/006b0601.d
 Lab Smp Id: WAR091231-60 01 Client Smp ID: AR166001
 Inj Date : 31-DEC-2009 08:26
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091231-60 01
 Misc Info : |PCB_CVS|1660||CVS|
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.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		
2.069	2.069	0.000	13421647	100.000	104	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.300	6.300	0.000	12491028	100.000	111	80.00- 120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2		
2.745	2.745	0.000	4541640	1000.00	1000	80.00- 120.00	100.00
3.179	3.179	0.000	3527116	1000.00	979	58.40- 98.40	77.66
3.331	3.331	0.000	2038452	1000.00	993	25.06- 65.06	44.88
3.359	3.359	0.000	2126014	1000.00	995	27.01- 67.01	46.81
3.518	3.518	0.000	2863486	1000.00	998	43.68- 83.68	63.05
Average of Peak Amounts =					993		

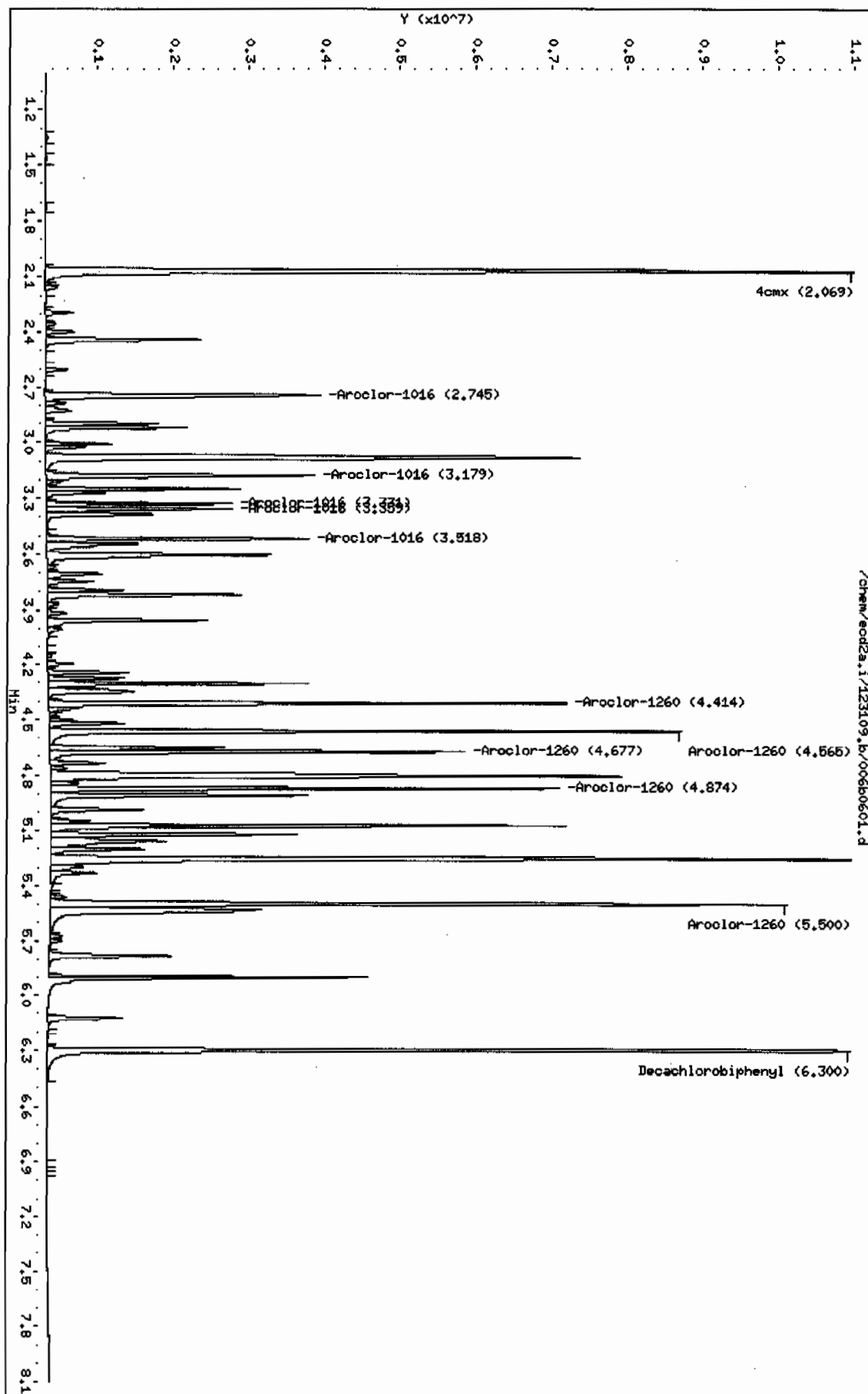
7 Aroclor-1260					CAS #: 11096-82-5		
4.414	4.414	0.000	5884927	1000.00	1020	80.00- 120.00	100.00
4.565	4.565	0.000	7417007	1000.00	1040	107.43- 147.43	126.03
4.677	4.677	0.000	5102019	1000.00	1060	66.66- 106.66	86.70
4.874	4.874	0.000	5906686	1000.00	1050	79.77- 119.77	100.37
5.500	5.500	0.000	9822315	1000.00	1090	145.98- 185.98	166.91
Average of Peak Amounts =					1.05e+03		

Data File: /chem/ecod2a.i/123109.b/006b0601.d
Date: 31-DEC-2009 08:26
Client ID: AR166001
Sample Info: IMA091231-60 01

Column phase: CLP2

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd2a.i/123109.b/007f0701.d
Report Date: 04-Jan-2010 08:15

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/007f0701.d

Lab Smp Id: WAR090930-32

Client Smp ID: AR123201

Inj Date : 31-DEC-2009 08:38

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR090930-32

Misc Info : |PCB_CVS|1232|CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d

Als bottle: 7 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

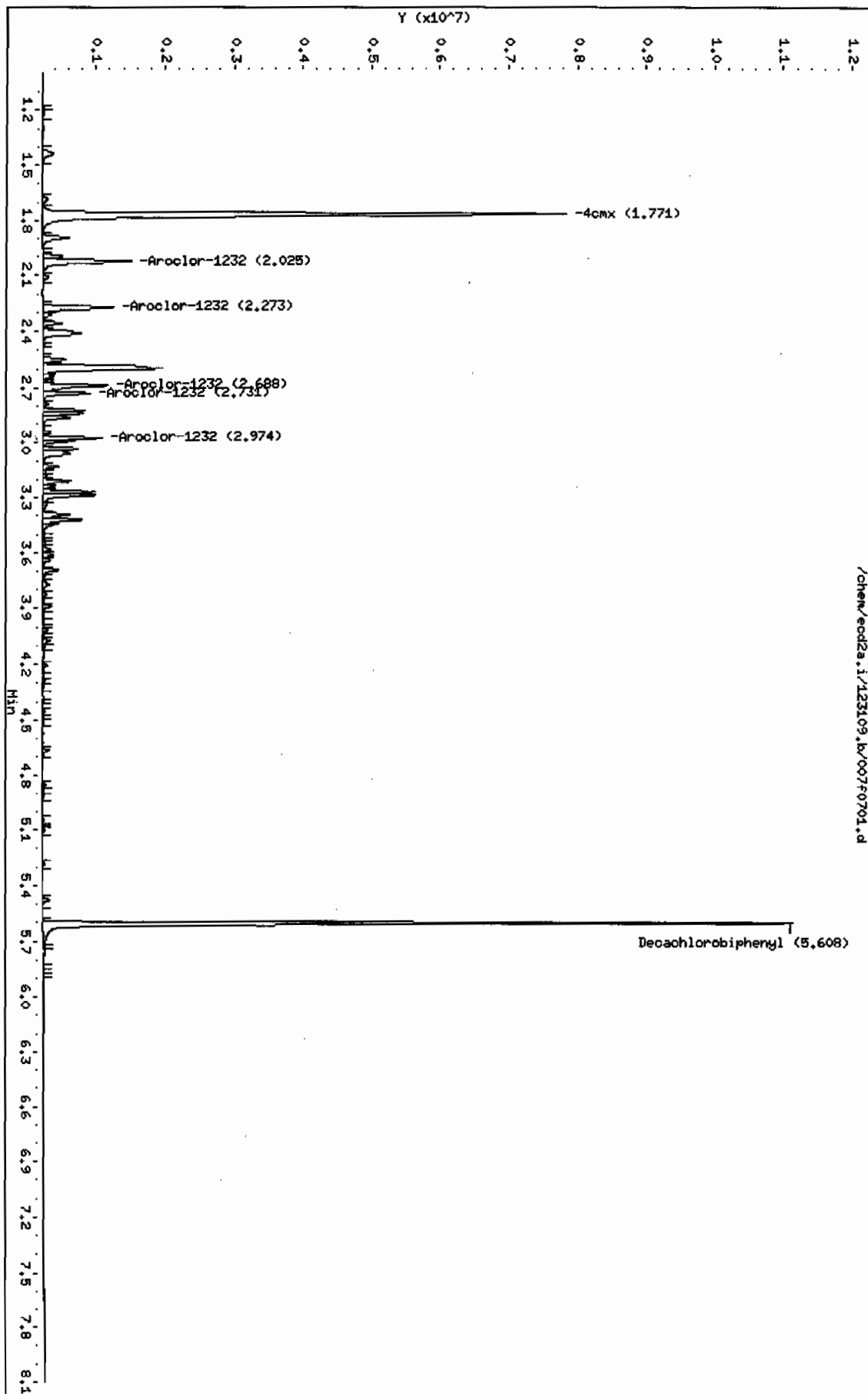
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
1.771	1.772	-0.001	10626702 100.000	170	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.608	5.608	0.000	10092016 100.000	186	80.00- 120.00	100.00
<hr/>						
3 Aroclor-1232				CAS #: 11141-16-5		
2.025	2.025	0.000	1699921 1000.00	1460	80.00- 120.00	100.00
2.273	2.273	0.000	1349696 1000.00	1450	59.40- 99.40	79.40
2.688	2.688	0.000	1120523 1000.00	1400	45.92- 85.92	65.92
2.731	2.731	0.000	713746 1000.00	1400	21.99- 61.99	41.99
2.974	2.974	0.000	820961 1000.00	1400	28.29- 68.29	48.29
Average of Peak Amounts =			1.42e+03			

Data File: /chem/eod2a.1/123109.b/0070701.d
Date: 31-DEC-2009 08:38
Client ID: AR123201
Sample Info: 144R09030-32

Column phase: CLP1

/chem/eod2a.1/123109.b/0070701.d

Instrument: eod2a.1
Operator: JADC
Column diameter: 0.25



Data File: /chem/ecd2a.i/123109.b/007b0701.d
Report Date: 04-Jan-2010 08:15

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/007b0701.d
Lab Smp Id: WAR090930-32 Client Smp ID: AR123201
Inj Date : 31-DEC-2009 08:38
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR090930-32
Misc Info : |PCB_CVS|1232||CVS|
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 7 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		
==	=====	=====	=====	=====	=====	=====		
\$ 11 4cmx				CAS #: 877-09-8				
2.068	2.069	-0.001	23386438	100.000	181	80.00-	120.00	100.00

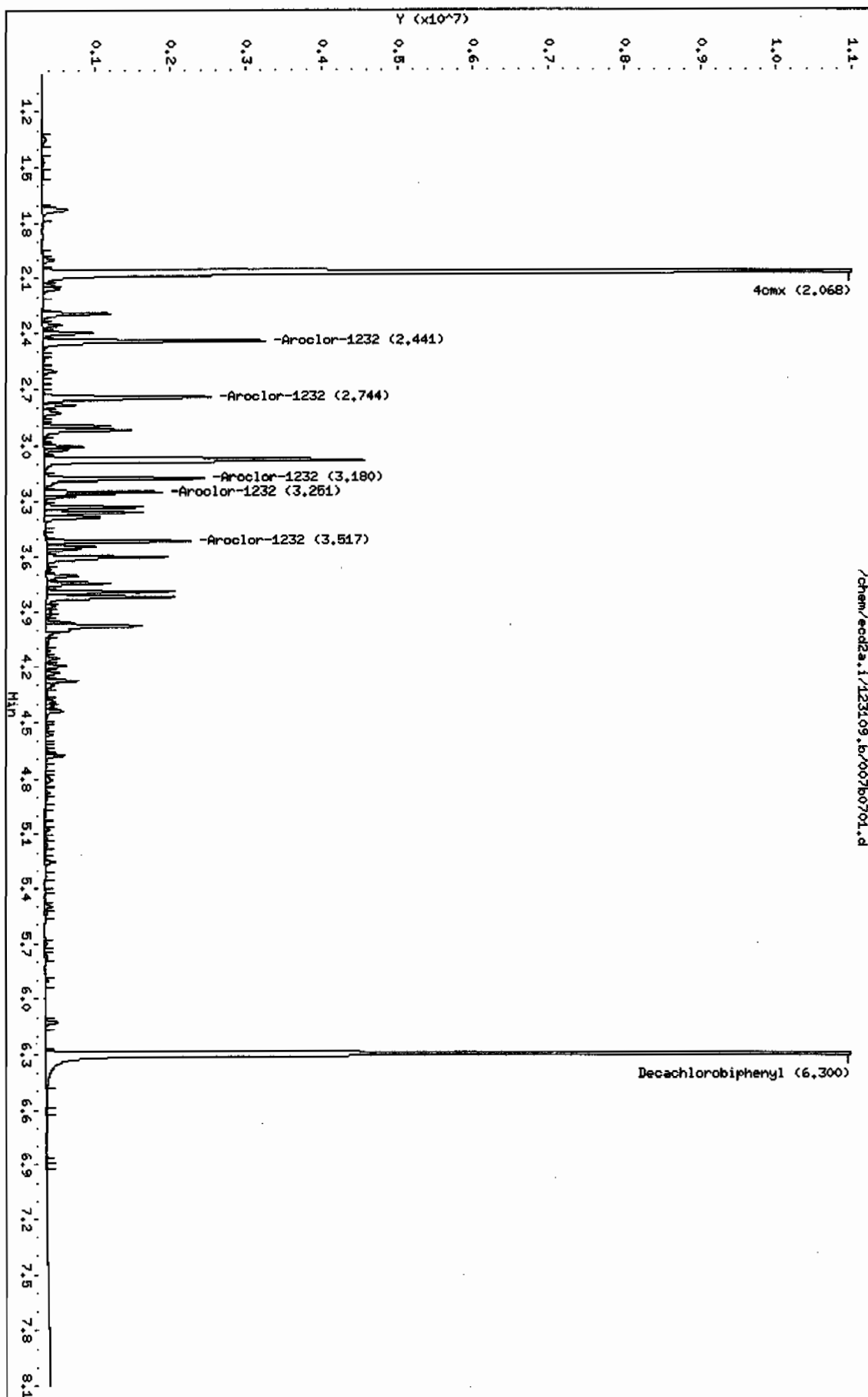
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
6.300	6.300	0.000	21801541	100.000	193	80.00-	120.00	100.00

3 Aroclor-1232				CAS #: 11141-16-5				
2.441	2.441	0.000	2997006	1000.00	1450	80.00-	120.00	100.00
2.744	2.744	0.000	2831263	1000.00	1440	74.47-	114.47	94.47
3.180	3.180	0.000	2209020	1000.00	1470	53.71-	93.71	73.71
3.251	3.251	0.000	1284017	1000.00	1380	22.84-	62.84	42.84
3.517	3.517	0.000	1573638	1000.00	1420	32.51-	72.51	52.51
Average of Peak Amounts =				1.43e+03				

Data File: /chem/eod2a.i/123109.b/007b0701.d
Date: 31-DEC-2009 08:38
Client ID: AR123201
Sample Info: 1MAR090930-32

Column phase: CLP2

Instrument: eod2a.i
Operator: JAC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/008f0801.d

Lab Smp Id: WAR091111-21

Client Smp ID: AR122101

Inj Date : 31-DEC-2009 08:49

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091111-21

Misc Info : |PCB_CVS|1221||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 09:26 jen01212

Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 8

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.773	1.772	0.001	7088080	100.000	114	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.608	5.608	0.000	6832011	100.000	126	80.00- 120.00	100.00	

2 Aroclor-1221					CAS #: 11104-28-2			
1.439	1.439	0.000	570990	1000.00	1230	80.00- 120.00	100.00	
1.900	1.900	0.000	831234	1000.00	1260	125.58- 165.58	145.58	
1.999	1.999	0.000	452263	1000.00	1300	59.21- 99.21	79.21	
Average of Peak Amounts =					1.27e+03			

Date File: /chem/eod2a.i/123109.b/008f0801.d

Date : 31-DEC-2009 08:49

Client ID: AR122101

Sample Info: IHR091111-21

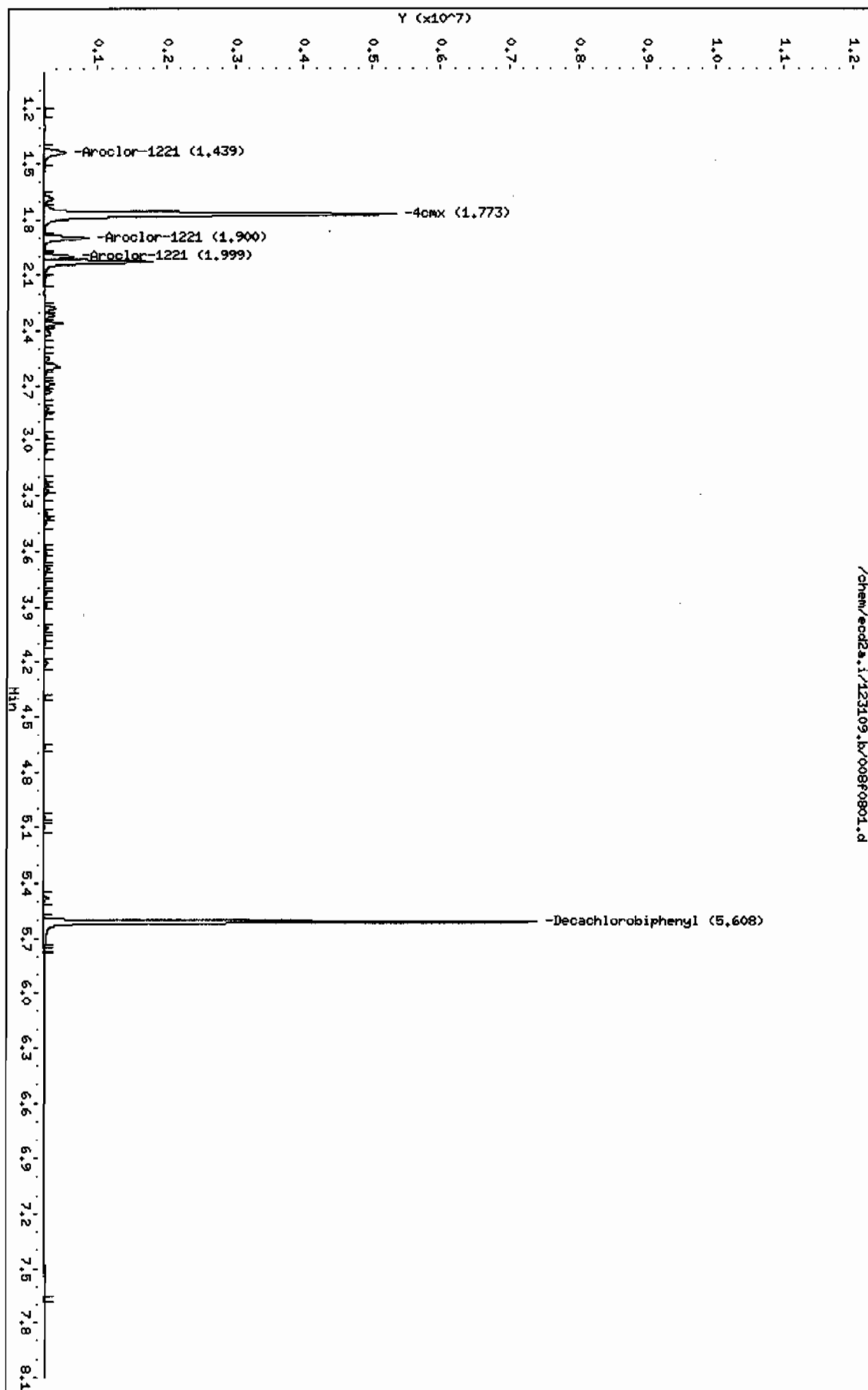
Column phase: CLP1

Instrument: eod2a.i

Operator: JADC

Column diameter: 0.25

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Data File: /chem/ecd2a.i/123109.b/008b0801.d
Report Date: 15-Jan-2010 15:44

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/008b0801.d
Lab Smp Id: WAR091111-21 Client Smp ID: AR122101
Inj Date : 31-DEC-2009 08:49
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091111-21
Misc Info : |PCB_CVS|1221||CVS|
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
Meth Date : 04-Jan-2010 09:28 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1221.sub
Target Version: 3.50 Sample Matrix: None

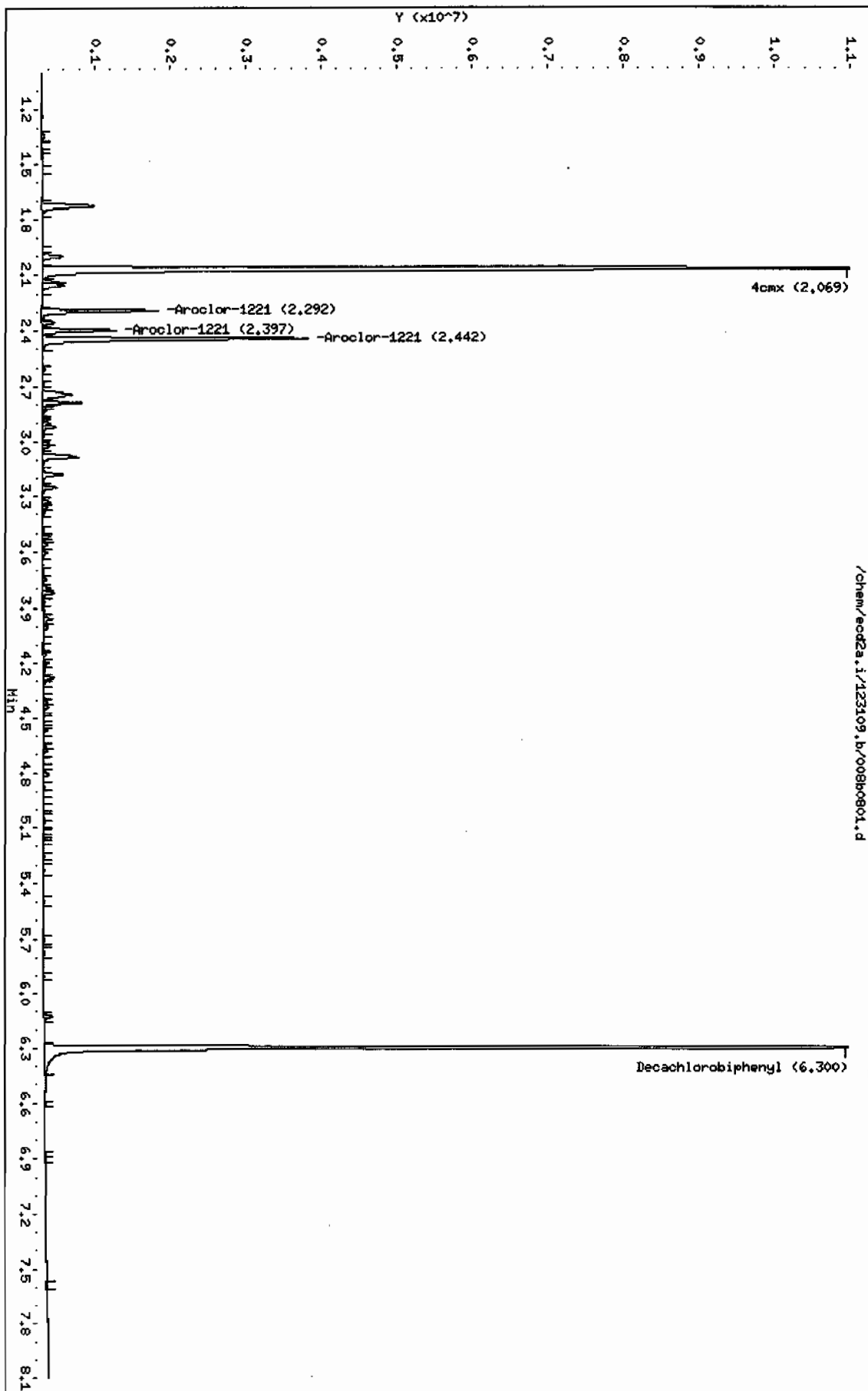
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
<hr/>						
\$ 11 4cmx				CAS #: 877-09-8		
2.069	2.069	0.000	15167268 100.000	117	80.00- 120.00	100.00
<hr/>						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.300	6.300	0.000	14454788 100.000	128	80.00- 120.00	100.00
<hr/>						
2 Aroclor-1221				CAS #: 11104-28-2		
2.292	2.292	0.000	1502493 1000.00	1190	80.00- 120.00	100.00
2.397	2.397	0.000	925530 1000.00	1200	41.60- 81.60	61.60
2.442	2.442	0.000	3628613 1000.00	1190	221.51- 261.51	241.51
Average of Peak Amounts =			1.19e+03			

Data File: /chem/eod2a.i/123109.b/008b0801.d
Date : 31-DEC-2009 08:49
Client ID: 96122101
Sample Info: 146R091111-21

Column phase: CLP2

Instrument: eod2a.i
Operator: J9DC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/030f3001.d
 Lab Smp Id: WAR091231-60 03 Client Smp ID: AR166003
 Inj Date : 31-DEC-2009 12:58
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |WAR091231-60 03
 Misc Info : |PCB_CVS|1660||CVS|
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 30 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-CÔL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
1.771	1.772	-0.001	6262719	100.000	100	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.609	5.608	0.001	5771565	100.000	107	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.274	2.274	0.000	2167551	1000.00	969	80.00-	120.00	100.00
2.597	2.598	-0.001	4604554	1000.00	983	192.27-	232.27	212.43
2.688	2.689	-0.001	1844439	1000.00	970	65.25-	105.25	85.09
2.823	2.824	-0.001	954672	1000.00	978	22.83-	62.83	44.04
2.975	2.975	0.000	1403799	1000.00	963	44.32-	84.32	64.76
Average of Peak Amounts =					973			

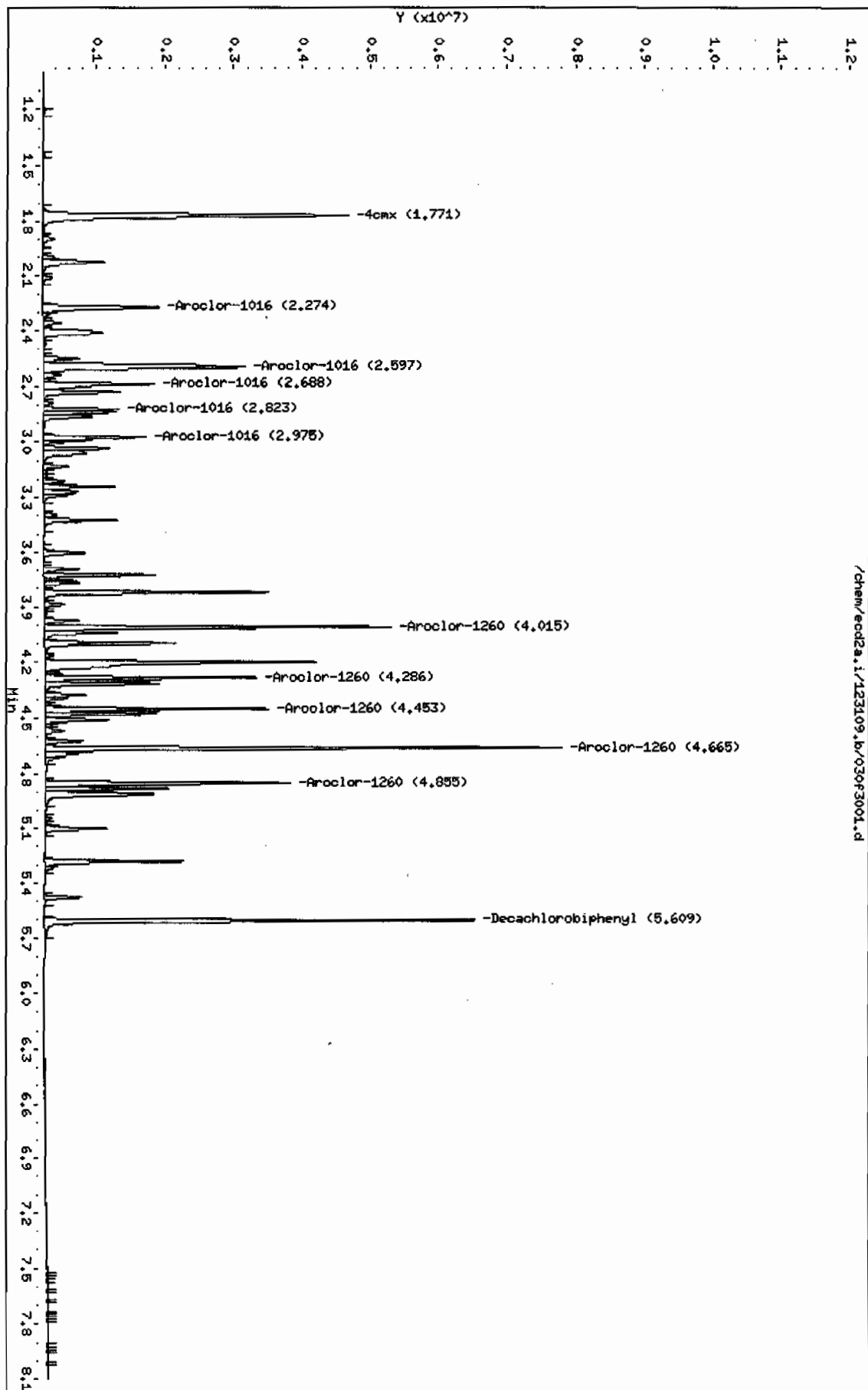
7 Aroclor-1260					CAS #: 11096-82-5			
4.015	4.015	0.000	4346586	1000.00	1040	80.00-	120.00	100.00
4.286	4.287	-0.001	2729681	1000.00	1050	42.76-	82.76	62.80
4.453	4.452	0.001	2799018	1000.00	1060	44.99-	84.99	64.40
4.665	4.664	0.001	6645024	1000.00	1090	134.44-	174.44	152.88
4.855	4.854	0.001	3211558	1000.00	1090	55.22-	95.22	73.89
Average of Peak Amounts =					1.07e+03			

Data File: /chem/eod2a.i/123109.b/030f3001.d
Date: 31-DEC-2009 12:58
Client ID: AR166003
Sample Info: 14R091231-60 03

Column phase: CLP1

Instrument: eod2a.i
Operator: JAOC
Column diameter: 0.25

/chem/eod2a.i/123109.b/030f3001.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/030b3001.d
Lab Smp Id: WAR091231-60 03 Client Smp ID: AR166003
Inj Date : 31-DEC-2009 12:58
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |WAR091231-60 03
Misc Info : |PCB_CVS|1660||CVS|
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 30 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			
2.068	2.069	-0.001	13519580	100.000	104	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.300	6.300	0.000	11675152	100.000	104	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.744	2.745	-0.001	4568406	1000.00	1010	80.00-	120.00	100.00
3.179	3.179	0.000	3587798	1000.00	996	58.40-	98.40	78.54
3.330	3.331	-0.001	2073127	1000.00	1010	25.06-	65.06	45.38
3.359	3.359	0.000	2160907	1000.00	1010	27.01-	67.01	47.30
3.517	3.518	-0.001	2909754	1000.00	1010	43.68-	83.68	63.69
Average of Peak Amounts =					1.01e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.413	4.414	-0.001	6041413	1000.00	1050	80.00-	120.00	100.00
4.566	4.565	0.001	7695382	1000.00	1080	107.43-	147.43	127.38
4.677	4.677	0.000	5222809	1000.00	1080	66.66-	106.66	86.45
4.875	4.874	0.001	5973222	1000.00	1060	79.77-	119.77	98.87
5.500	5.500	0.000	9899433	1000.00	1100	145.98-	185.98	163.86
Average of Peak Amounts =					1.07e+03			

Data File: /chem/eod2a.i/123109.b/030b3001.d

Date: 31-DEC-2009 12:58

Client ID: AR16003

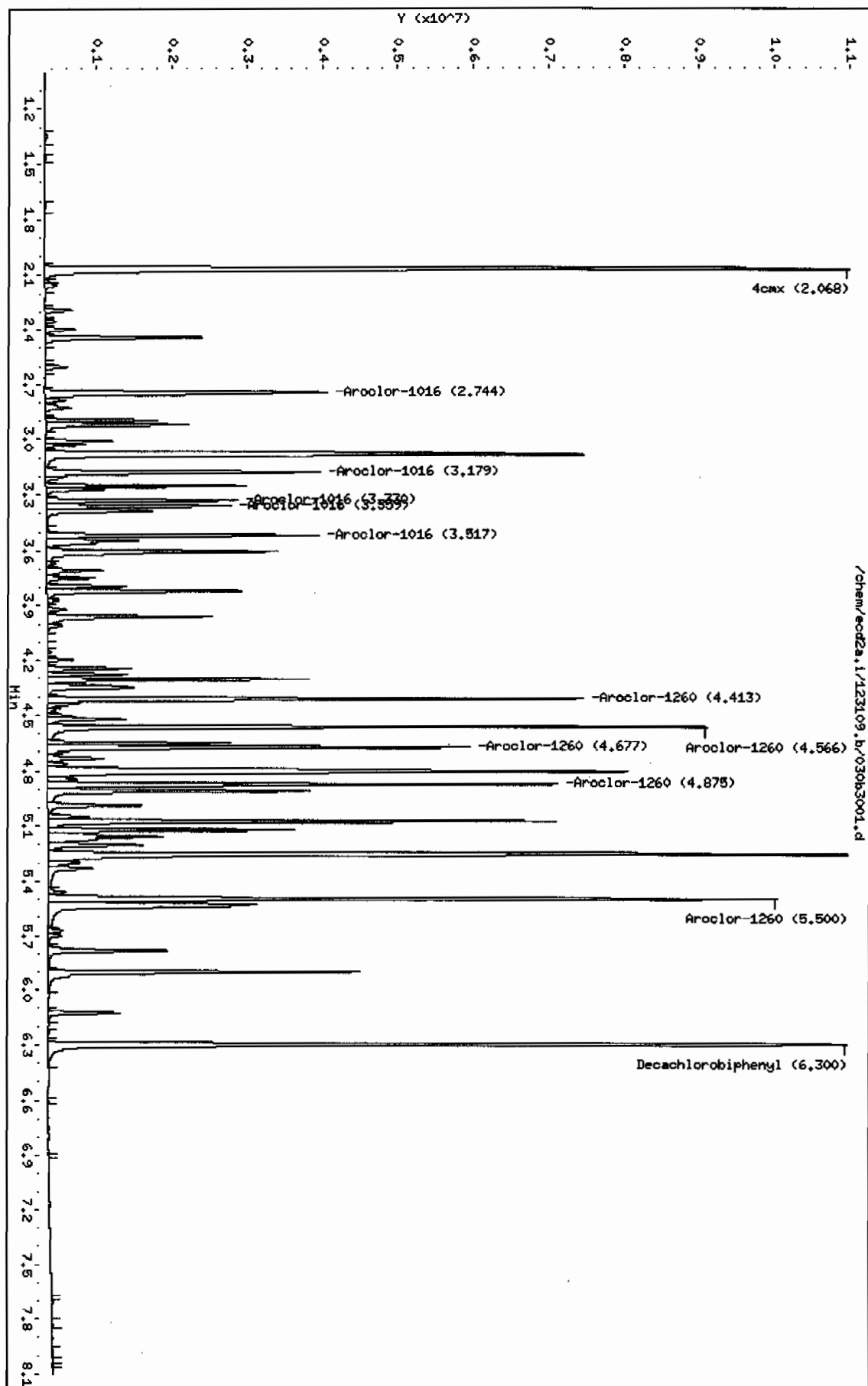
Sample Info: 14AR091231-60 03

Column phase: CLP2

Instrument: eod2a.i

Operator: JHOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/037f3701.d

Lab Smp Id: WAR091231-60 04

Client Smp ID: AR166004

Inj Date : 31-DEC-2009 14:16

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091231-60 04

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m

Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 37

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				
1.773	1.772	0.001	6242755	100.000	100	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
5.608	5.608	0.000	5899247	100.000	109	80.00-	120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2				
2.276	2.274	0.002	2155051	1000.00	963	80.00-	120.00	100.00	
2.599	2.598	0.001	4574472	1000.00	976	192.27-	232.27	212.27	
2.690	2.689	0.001	1837199	1000.00	966	65.25-	105.25	85.25	
2.825	2.824	0.001	923049	1000.00	946	22.83-	62.83	42.83	
2.976	2.975	0.001	1386150	1000.00	951	44.32-	84.32	64.32	
Average of Peak Amounts =					960				

7 Aroclor-1260					CAS #: 11096-82-5				
4.014	4.015	-0.001	4341188	1000.00	1040	80.00-	120.00	100.00	
4.287	4.287	0.000	2724712	1000.00	1050	42.76-	82.76	62.76	
4.452	4.452	0.000	2821286	1000.00	1070	44.99-	84.99	64.99	
4.665	4.664	0.001	6704686	1000.00	1100	134.44-	174.44	154.44	
4.854	4.854	0.000	3265244	1000.00	1110	55.22-	95.22	75.22	
Average of Peak Amounts =					1.08e+03				

Data File: /chem/eod2a.i/123109.b/037F3701.d

Date: 31-DEC-2009 14:16

Client ID: AR166004

Sample Info: 14AR091231-60 04

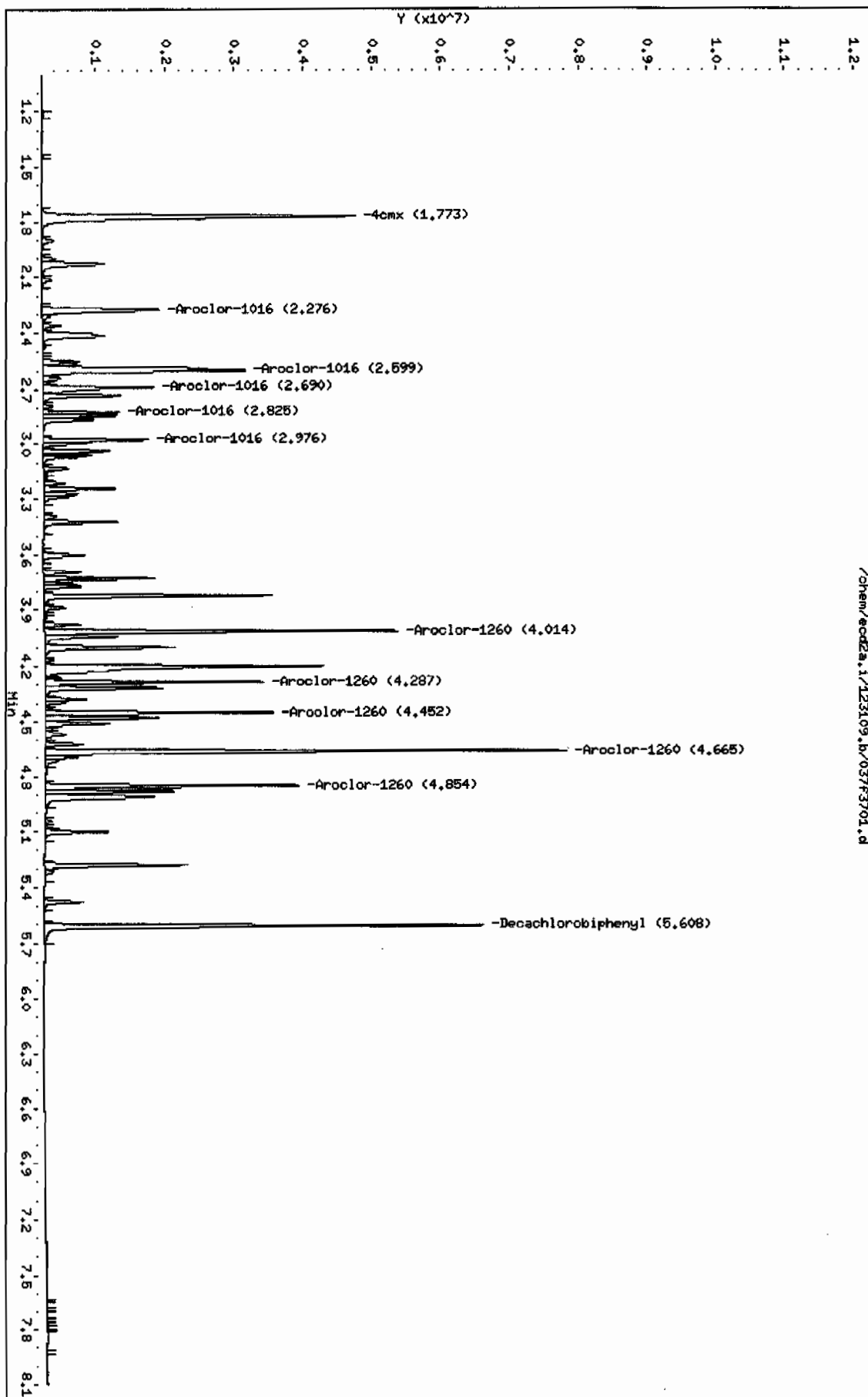
Column phase: CLP1

Instrument: eod2a.i

Operator: JADC

Column diameter: 0.25

/chem/eod2a.i/123109.b/037F3701.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/037b3701.d

Lab Smp Id: WAR091231-60 04

Client Smp ID: AR166004

Inj Date : 31-DEC-2009 14:16

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |WAR091231-60 04

Misc Info : |PCB_CVS|1660||CVS|

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 37

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			
2.069	2.069	0.000	13460428	100.000	104	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.300	6.300	0.000	12128818	100.000	108	80.00-	120.00	100.00

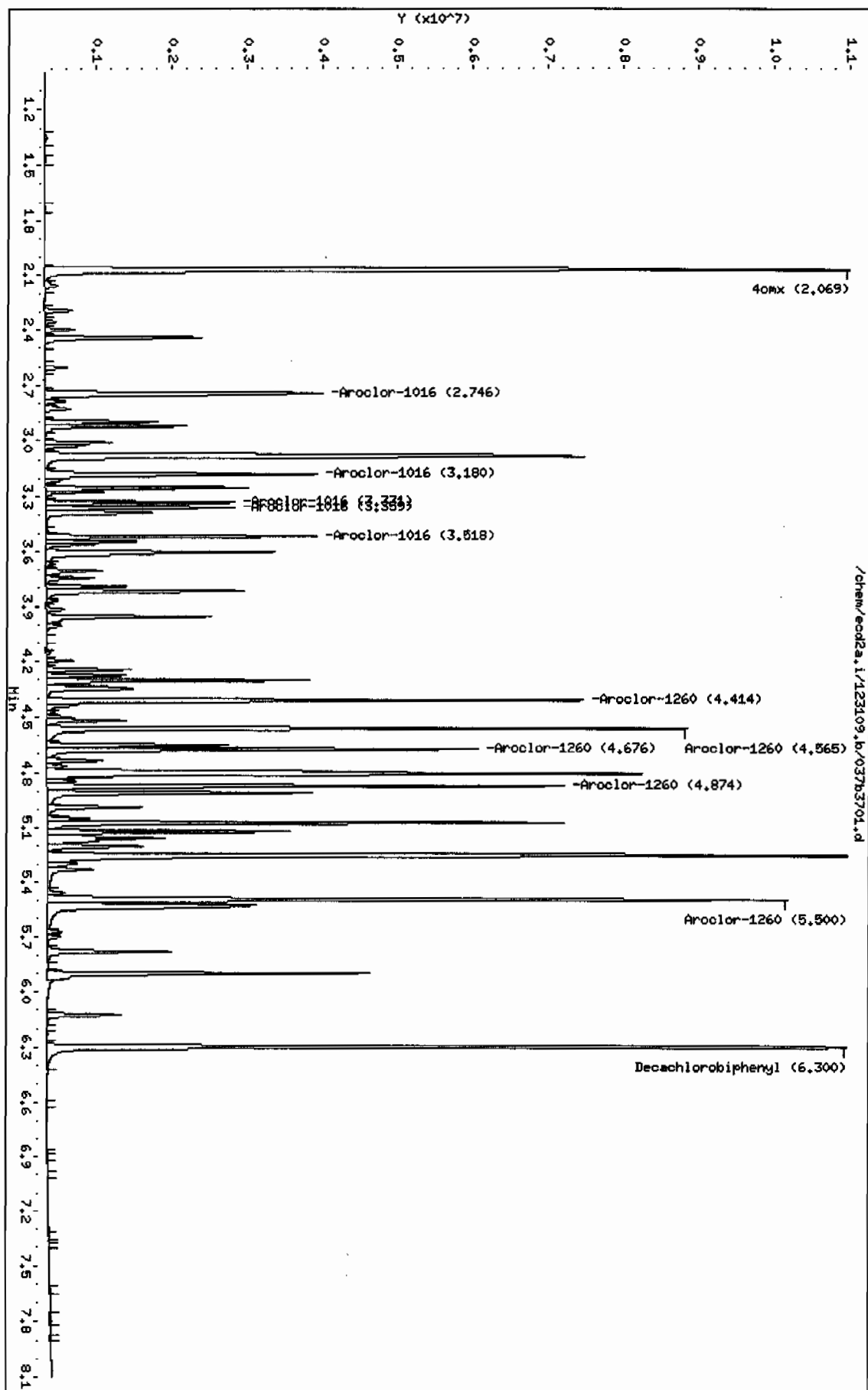
1 Aroclor-1016					CAS #: 12674-11-2			
2.746	2.745	0.001	4550324	1000.00	1000	80.00-	120.00	100.00
3.180	3.179	0.001	3567357	1000.00	990	58.40-	98.40	78.40
3.331	3.331	0.000	2050590	1000.00	999	25.06-	65.06	45.06
3.359	3.359	0.000	2139242	1000.00	1000	27.01-	67.01	47.01
3.518	3.518	0.000	2897808	1000.00	1010	43.68-	83.68	63.68
Average of Peak Amounts =					1e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.414	4.414	0.000	6042958	1000.00	1050	80.00-	120.00	100.00
4.565	4.565	0.000	7700255	1000.00	1080	107.43-	147.43	127.43
4.676	4.677	-0.001	5236593	1000.00	1090	66.66-	106.66	86.66
4.874	4.874	0.000	6028948	1000.00	1070	79.77-	119.77	99.77
5.500	5.500	0.000	10029800	1000.00	1110	145.98-	185.98	165.98
Average of Peak Amounts =					1.08e+03			

Data File: /chem/eod2a.i/123109.b/037b3701.d
Date: 31-DEC-2009 14:16
Client ID: RF166004
Sample Info: 1MR091231-60 04

Column phase: CLP2

Instrument: eod2a.i
Operator: JAC
Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.77				DCB: 5.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/14/09	0700	1.77	5.61	
02	ZZZZZ	ZZZZZ	12/14/09	0711	1.77	5.61	
03	AR125401	WAR091102-54	12/14/09	0722	1.77	5.61	
04	AR124201	WAR091102-42	12/14/09	0733	1.77	5.61	
05	AR124801	WAR091027-48	12/14/09	0744	1.77	5.61	
06	AR123201	WAR090930-32	12/14/09	0755	1.77	5.61	
07	AR122101	WAR091111-21	12/14/09	0807	1.77	5.61	
08	ZZZZZ	ZZZZZ	12/14/09	0818	1.77	5.61	
09	AR126201	WAR091111-62	12/14/09	0829	1.77	5.61	
10	AR126801	WAR091106-68	12/14/09	0840	1.77	5.61	
11	AR166001	WAR091214-01	12/14/09	0851	1.77	5.61	
12	AR166002	WAR091214-02	12/14/09	0902	1.77	5.61	
13	AR166003	WAR091214-03	12/14/09	0913	1.77	5.61	
14	AR166004	WAR091214-04	12/14/09	0924	1.77	5.61	
15	AR166005	IAR091102-01	12/14/09	0935	1.77	5.61	
16	AR166001	WAR091211-60	12/14/09	0946	1.77	5.61	
17	DDTANALOGSTD	WAR091020-DD	12/14/09	0958			
18	PIBLK02	WAR091130-99	12/14/09	1009	1.77	5.61	
19	ZZZZZ	ZZZZZ	12/14/09	1020	1.77	5.61	
20	ZZZZZ	ZZZZZ	12/14/09	1031	1.77	5.61	
21	ZZZZZ	ZZZZZ	12/14/09	1042	1.77		
22	ZZZZZ	ZZZZZ	12/14/09	1053	1.76		
23	ZZZZZ	ZZZZZ	12/14/09	1104	1.76		
24	ZZZZZ	ZZZZZ	12/14/09	1115	1.77	5.61	
25	ZZZZZ	ZZZZZ	12/14/09	1126	1.77	5.61	
26	ZZZZZ	ZZZZZ	12/14/09	1137	1.76		
27	ZZZZZ	ZZZZZ	12/14/09	1148	1.77	5.61	
28	ZZZZZ	ZZZZZ	12/14/09	1159	1.76	5.62	
29	AR166002	WAR091211-60	12/14/09	1211	1.77	5.61	
30	PIBLK03	WAR091130-99	12/14/09	1222	1.77	5.61	
31	ZZZZZ	ZZZZZ	12/14/09	1233	1.77	5.61	
32	ZZZZZ	ZZZZZ	12/14/09	1244	1.76		

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.: 10-1036

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.07				DCB: 6.30			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/14/09 0700	2.07		6.31	
02	ZZZZZ	ZZZZZ	12/14/09 0711	2.07		6.30	
03	AR125401	WAR091102-54	12/14/09 0722	2.07		6.30	
04	AR124201	WAR091102-42	12/14/09 0733	2.07		6.30	
05	AR124801	WAR091027-48	12/14/09 0744	2.07		6.30	
06	AR123201	WAR090930-32	12/14/09 0755	2.07		6.30	
07	AR122101	WAR091111-21	12/14/09 0807	2.07		6.30	
08	ZZZZZ	ZZZZZ	12/14/09 0818	2.07		6.30	
09	AR166201	WAR091111-62	12/14/09 0829	2.07		6.30	
10	AR126801	WAR091106-68	12/14/09 0840	2.07		6.30	
11	AR166001	WAR091214-01	12/14/09 0851	2.07		6.30	
12	AR166002	WAR091214-02	12/14/09 0902	2.07		6.30	
13	AR166003	WAR091214-03	12/14/09 0913	2.07		6.30	
14	AR166004	WAR091214-04	12/14/09 0924	2.07		6.30	
15	AR166005	WAR091102-01	12/14/09 0935	2.07		6.30	
16	AR166001	WAR091211-60	12/14/09 0946	2.07		6.30	
17	DDTANALOGSTD	WAR091020-DD	12/14/09 0958				
18	PIBLK02	WAR091130-99	12/14/09 1009	2.07		6.30	
19	ZZZZZ	ZZZZZ	12/14/09 1020	2.07		6.30	
20	ZZZZZ	ZZZZZ	12/14/09 1031	2.07		6.30	
21	ZZZZZ	ZZZZZ	12/14/09 1042	2.07			
22	ZZZZZ	ZZZZZ	12/14/09 1053	2.07			
23	ZZZZZ	ZZZZZ	12/14/09 1104	2.06			
24	ZZZZZ	ZZZZZ	12/14/09 1115	2.07		6.30	
25	ZZZZZ	ZZZZZ	12/14/09 1126	2.07		6.31	
26	ZZZZZ	ZZZZZ	12/14/09 1137	2.07			
27	ZZZZZ	ZZZZZ	12/14/09 1148	2.07		6.30	
28	ZZZZZ	ZZZZZ	12/14/09 1159	2.06		6.30	
29	AR166002	WAR091211-60	12/14/09 1211	2.07		6.30	
30	PIBLK03	WAR091130-99	12/14/09 1222	2.07		6.30	
31	ZZZZZ	ZZZZZ	12/14/09 1233	2.07		6.31	
32	ZZZZZ	ZZZZZ	12/14/09 1244	2.07			

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.: 10-1036

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.77				DCB: 5.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/29/09	0715	1.77	5.60	
02	AR166001	WAR091211-60	12/29/09	0726	1.77	5.61	
03	AR125401	WAR091216-54	12/29/09	0737	1.77	5.61	
04	AR124201	WAR091217-42	12/29/09	0748	1.77	5.61	
05	AR124801	WAR091217-48	12/29/09	0759	1.77	5.61	
06	AR123201	WAR090930-32	12/29/09	0817	1.77	5.62	
07	AR122101	WAR091111-21	12/29/09	0828	1.77	5.61	
08	AR126201	WAR091111-62	12/29/09	0839	1.77	5.61	
09	AR126801	WAR091106-68	12/29/09	0850	1.77	5.61	
10	DDTANALOGSTD	WAR091219-DD	12/29/09	0901			
11	PIBLK02	WAR091130-99	12/29/09	0913	1.77	5.61	
12	PBLK01	1202005226	12/29/09	0927	1.77	5.61	
13	PBLK01LCS	1202005227	12/29/09	0938	1.77	5.61	
14	ZZZZZ	ZZZZZ	12/29/09	0949	1.77	5.61	
15	ZZZZZ	ZZZZZ	12/29/09	1000	1.77	5.61	
16	ZZZZZ	ZZZZZ	12/29/09	1011	1.77	5.61	
17	ZZZZZ	ZZZZZ	12/29/09	1022	1.77	5.61	
18	ZZZZZ	ZZZZZ	12/29/09	1033	1.77	5.61	
19	RE12-10-7288	243490001	12/29/09	1044	1.77	5.61	
20	RE12-10-7290	243490002	12/29/09	1055	1.77	5.61	
21	RE12-10-7289	243490003	12/29/09	1106	1.77	5.61	
22	AR166002	WAR091211-60	12/29/09	1117	1.77	5.61	
23	PIBLK03	WAR091130-99	12/29/09	1128	1.77	5.61	
24	ZZZZZ	ZZZZZ	12/29/09	1140	1.77	5.61	
25	ZZZZZ	ZZZZZ	12/29/09	1151	1.77	5.61	
26	ZZZZZ	ZZZZZ	12/29/09	1202	1.77	5.61	
27	ZZZZZ	ZZZZZ	12/29/09	1213	1.77	5.61	
28	ZZZZZ	ZZZZZ	12/29/09	1224	1.77	5.61	
29	ZZZZZ	ZZZZZ	12/29/09	1235	1.77	5.61	
30	ZZZZZ	ZZZZZ	12/29/09	1246	1.77	5.61	
31	ZZZZZ	ZZZZZ	12/29/09	1257	1.77	5.61	
32	ZZZZZ	ZZZZZ	12/29/09	1308	1.77	5.61	

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.: 10-1036

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.07			DCB: 6.30		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR091130-99	12/29/09 0715	2.07	6.30
02	AR166001	WAR091211-60	12/29/09 0726	2.07	6.30
03	AR125401	WAR091216-54	12/29/09 0737	2.07	6.30
04	AR124201	WAR091217-42	12/29/09 0748	2.07	6.30
05	AR124801	WAR091217-48	12/29/09 0759	2.07	6.30
06	AR123201	WAR090930-32	12/29/09 0817	2.07	6.30
07	AR122101	WAR091111-21	12/29/09 0828	2.07	6.30
08	AR126201	WAR091111-62	12/29/09 0839	2.07	6.30
09	AR126801	WAR091106-68	12/29/09 0850	2.07	6.30
10	DDTANALOGSTD	WAR091219-DD	12/29/09 0901		
11	PIBLK02	WAR091130-99	12/29/09 0913	2.07	6.30
12	PBLK01	1202005226	12/29/09 0927	2.07	6.30
13	PBLK01LCS	1202005227	12/29/09 0938	2.07	6.30
14	ZZZZZ	ZZZZZ	12/29/09 0949	2.07	6.30
15	ZZZZZ	ZZZZZ	12/29/09 1000	2.07	6.30
16	ZZZZZ	ZZZZZ	12/29/09 1011	2.07	6.30
17	ZZZZZ	ZZZZZ	12/29/09 1022	2.07	6.30
18	ZZZZZ	ZZZZZ	12/29/09 1033	2.07	6.30
19	RE12-10-7288	243490001	12/29/09 1044	2.07	6.30
20	RE12-10-7290	243490002	12/29/09 1055	2.07	6.30
21	RE12-10-7289	243490003	12/29/09 1106	2.07	6.30
22	AR166002	WAR091211-60	12/29/09 1117	2.07	6.30
23	PIBLK03	WAR091130-99	12/29/09 1128	2.07	6.30
24	ZZZZZ	ZZZZZ	12/29/09 1140	2.07	6.30
25	ZZZZZ	ZZZZZ	12/29/09 1151	2.07	6.30
26	ZZZZZ	ZZZZZ	12/29/09 1202	2.07	6.30
27	ZZZZZ	ZZZZZ	12/29/09 1213	2.07	6.30
28	ZZZZZ	ZZZZZ	12/29/09 1224	2.07	6.30
29	ZZZZZ	ZZZZZ	12/29/09 1235	2.07	6.30
30	ZZZZZ	ZZZZZ	12/29/09 1246	2.07	6.30
31	ZZZZZ	ZZZZZ	12/29/09 1257	2.07	6.30
32	ZZZZZ	ZZZZZ	12/29/09 1308	2.07	6.30

S1 = 4cmx
DCB = Decachlorobiphenyl

QC LIMITS
(+/- 0.03 MINUTES)
(+/- 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.: 10-1036

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.77				DCB: 5.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/31/09 0731	1.77		5.61	
02	ZZZZZ	ZZZZZ	12/31/09 0742	1.77		5.61	
03	AR125401	WAR091216-54	12/31/09 0753	1.77		5.61	
04	AR124201	WAR091217-42	12/31/09 0804	1.77		5.61	
05	AR124801	WAR091217-48	12/31/09 0815	1.77		5.61	
06	AR166001	WAR091231-60	12/31/09 0826	1.77		5.61	
07	AR123201	WAR090930-32	12/31/09 0838	1.77		5.61	
08	AR122101	WAR091111-21	12/31/09 0849	1.77		5.61	
09	AR126201	WAR091111-62	12/31/09 0900	1.77		5.61	
10	AR126801	WAR091106-68	12/31/09 0911	1.77		5.61	
11	DDTANALOGSTD	WAR091219-DD	12/31/09 0922				
12	PIBLK02	WAR091130-99	12/31/09 0939	1.77		5.61	
13	ZZZZZ	ZZZZZ	12/31/09 0950	1.77		5.61	
14	ZZZZZ	ZZZZZ	12/31/09 1001	1.77		5.61	
15	ZZZZZ	ZZZZZ	12/31/09 1012	1.77		5.61	
16	ZZZZZ	ZZZZZ	12/31/09 1023	1.77		5.61	
17	ZZZZZ	ZZZZZ	12/31/09 1034	1.77		5.61	
18	ZZZZZ	ZZZZZ	12/31/09 1045	1.77		5.61	
19	ZZZZZ	ZZZZZ	12/31/09 1057	1.77		5.61	
20	AR166002	WAR091231-60	12/31/09 1108	1.77		5.61	
21	PIBLK03	WAR091130-99	12/31/09 1119	1.77		5.61	
22	ZZZZZ	ZZZZZ	12/31/09 1130	1.77		5.61	
23	ZZZZZ	ZZZZZ	12/31/09 1141	1.77		5.61	
24	ZZZZZ	ZZZZZ	12/31/09 1152	1.77		5.61	
25	ZZZZZ	ZZZZZ	12/31/09 1203	1.77		5.61	
26	ZZZZZ	ZZZZZ	12/31/09 1214	1.77		5.61	
27	ZZZZZ	ZZZZZ	12/31/09 1225	1.77		5.61	
28	ZZZZZ	ZZZZZ	12/31/09 1236	1.77		5.61	
29	ZZZZZ	ZZZZZ	12/31/09 1247	1.77		5.61	
30	AR166003	WAR091231-60	12/31/09 1258	1.77		5.61	
31	PIBLK04	WAR091130-99	12/31/09 1310	1.77		5.61	
32	PBLK02	1202006786	12/31/09 1321	1.77		5.61	

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.: 10-1036
 GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09
 Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.77			DCB: 5.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	PBLK02LCS	1202006787	12/31/09	1332	1.77	5.61
02	RE12-10-7296	243490007	12/31/09	1343	1.77	5.61
03	RE12-10-7296MS	1202006788	12/31/09	1354	1.77	5.61
04	RE12-10-7296MSD	1202006789	12/31/09	1405	1.77	5.61
05	AR166004	WAR091231-60	12/31/09	1416	1.77	5.61
06	PIBLK05	WAR091130-99	12/31/09	1427	1.77	5.61
07						
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32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
 DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1036

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.07				DCB: 6.30			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR091130-99	12/31/09 0731	2.07		6.30	
02	ZZZZZ	ZZZZZ	12/31/09 0742	2.07		6.30	
03	AR125401	WAR091216-54	12/31/09 0753	2.07		6.30	
04	AR124201	WAR091217-42	12/31/09 0804	2.07		6.30	
05	AR124801	WAR091217-48	12/31/09 0815	2.07		6.30	
06	AR166001	WAR091231-60	12/31/09 0826	2.07		6.30	
07	AR123201	WAR090930-32	12/31/09 0838	2.07		6.30	
08	AR122101	WAR091111-21	12/31/09 0849	2.07		6.30	
09	AR126201	WAR091111-62	12/31/09 0900	2.07		6.30	
10	AR126801	WAR091106-68	12/31/09 0911	2.07		6.30	
11	DDTANALOGSTD	WAR091219-DD	12/31/09 0922				
12	PIBLK02	WAR091130-99	12/31/09 0939	2.07		6.30	
13	ZZZZZ	ZZZZZ	12/31/09 0950	2.07		6.30	
14	ZZZZZ	ZZZZZ	12/31/09 1001	2.07		6.30	
15	ZZZZZ	ZZZZZ	12/31/09 1012	2.07		6.30	
16	ZZZZZ	ZZZZZ	12/31/09 1023	2.07		6.30	
17	ZZZZZ	ZZZZZ	12/31/09 1034	2.07		6.30	
18	ZZZZZ	ZZZZZ	12/31/09 1045	2.07		6.30	
19	ZZZZZ	ZZZZZ	12/31/09 1057	2.07		6.30	
20	AR166002	WAR091231-60	12/31/09 1108	2.07		6.30	
21	PIBLK03	WAR091130-99	12/31/09 1119	2.07		6.30	
22	ZZZZZ	ZZZZZ	12/31/09 1130	2.07		6.30	
23	ZZZZZ	ZZZZZ	12/31/09 1141	2.07		6.30	
24	ZZZZZ	ZZZZZ	12/31/09 1152	2.07		6.30	
25	ZZZZZ	ZZZZZ	12/31/09 1203	2.07		6.30	
26	ZZZZZ	ZZZZZ	12/31/09 1214	2.07		6.30	
27	ZZZZZ	ZZZZZ	12/31/09 1225	2.07		6.30	
28	ZZZZZ	ZZZZZ	12/31/09 1236	2.07		6.30	
29	ZZZZZ	ZZZZZ	12/31/09 1247	2.07		6.30	
30	AR166003	WAR091231-60	12/31/09 1258	2.07		6.30	
31	PIBLK04	WAR091130-99	12/31/09 1310	2.07		6.30	
32	PBLK02	1202006786	12/31/09 1321	2.07		6.30	

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 1 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.: 10-1036

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD2A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.07			DCB: 6.30			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
01	PBLK02LCS	1202006787	12/31/09	1332	2.07	6.30
02	RE12-10-7296	243490007	12/31/09	1343	2.07	6.30
03	RE12-10-7296MS	1202006788	12/31/09	1354	2.07	6.30
04	RE12-10-7296MSD	1202006789	12/31/09	1405	2.07	6.30
05	AR166004	WAR091231-60	12/31/09	1416	2.07	6.30
06	PIBLK05	WAR091130-99	12/31/09	1427	2.07	6.30
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-1036

Client ID: LCS for batch 937092

Lab Sample ID: 1202005227

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD2AJ_1

Inst: ECD2AJ_2

Column: CLP1

Column: CLP2

Analyzed: 29-DEC-09 09:38

Analyzed: 29-DEC-09 09:38

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.673
Column 1	1	2.28	2.24 - 2.3	21.8		ug/kg	
	2	2.6	2.57 - 2.63	21.1		ug/kg	
	3	2.69	2.66 - 2.72	20.8		ug/kg	
	4	2.83	2.79 - 2.85	21.1		ug/kg	
	5	2.98	2.94 - 3	20.9		ug/kg	
					21.2		
Column 2	1	2.75	2.72 - 2.78	21.1		ug/kg	
	2	3.18	3.15 - 3.21	20.7		ug/kg	
	3	3.33	3.3 - 3.36	21.2		ug/kg	
	4	3.36	3.33 - 3.39	20.8		ug/kg	
	5	3.52	3.49 - 3.55	21.2		ug/kg	
					21		
Aroclor-1260							2.56
Column 1	1	4.02	3.98 - 4.04	25.4		ug/kg	
	2	4.29	4.26 - 4.32	25.9		ug/kg	
	3	4.45	4.42 - 4.48	26.3		ug/kg	
	4	4.67	4.63 - 4.69	27.5		ug/kg	
	5	4.86	4.82 - 4.88	26.3		ug/kg	
					26.3		
Column 2	1	4.42	4.38 - 4.44	24.4		ug/kg	
	2	4.57	4.54 - 4.6	25.5		ug/kg	
	3	4.68	4.65 - 4.71	25.2		ug/kg	
	4	4.88	4.84 - 4.9	25.6		ug/kg	
	5	5.5	5.47 - 5.53	27.3		ug/kg	
					25.6		

Identification Summary

Page 1 of 1

SDG Number: 10-1036

Client ID: LCS for batch 937789

Lab Sample ID: 1202006787

Data File: 033f3301.d

Data File: 033b3301.d

Inst: ECD2A.I_1

Inst: ECD2A.I_2

Column: CLP1

Column: CLP2

Analyzed: 31-DEC-09 13:32

Analyzed: 31-DEC-09 13:32

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.939
Column 1	1	2.28	2.24 - 2.3	22.2		ug/kg	
	2	2.6	2.57 - 2.63	23		ug/kg	
	3	2.69	2.66 - 2.72	22.6		ug/kg	
	4	2.82	2.79 - 2.85	23.4		ug/kg	
	5	2.98	2.94 - 3	22.8		ug/kg	
					22.8		
Column 2	1	2.75	2.72 - 2.78	22.6		ug/kg	
	2	3.18	3.15 - 3.21	22.6		ug/kg	
	3	3.33	3.3 - 3.36	23.4		ug/kg	
	4	3.36	3.33 - 3.39	23.1		ug/kg	
	5	3.52	3.49 - 3.55	23.3		ug/kg	
					23		
Aroclor-1260							3.31
Column 1	1	4.01	3.98 - 4.04	29.1		ug/kg	
	2	4.29	4.26 - 4.32	29.6		ug/kg	
	3	4.45	4.42 - 4.48	30.3		ug/kg	
	4	4.66	4.63 - 4.69	31.7		ug/kg	
	5	4.85	4.82 - 4.88	31.2		ug/kg	
					30.4		
Column 2	1	4.41	4.38 - 4.44	27.9		ug/kg	
	2	4.57	4.54 - 4.6	28.9		ug/kg	
	3	4.68	4.65 - 4.71	29.1		ug/kg	
	4	4.87	4.84 - 4.9	29.6		ug/kg	
	5	5.5	5.47 - 5.53	31.4		ug/kg	
					29.4		

Identification Summary

Page 1 of 1

SDG Number: 10-1036

Client ID: RE12-10-7296MS

Lab Sample ID: 1202006788

Data File: 035f3501.d

Data File: 035b3501.d

Inst: ECD2A.I_1

Inst: ECD2A.I_2

Column: CLP1

Column: CLP2

Analyzed: 31-DEC-09 13:54

Analyzed: 31-DEC-09 13:54

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.139
Column 1	1	2.27	2.24 - 2.3	19.3		ug/kg	
	2	2.6	2.57 - 2.63	20.1		ug/kg	
	3	2.69	2.66 - 2.72	19.4		ug/kg	
	4	2.82	2.79 - 2.85	19.9		ug/kg	
	5	2.98	2.94 - 3	18.9		ug/kg	
					19.5		
Column 2	1	2.75	2.72 - 2.78	19.2		ug/kg	
	2	3.18	3.15 - 3.21	19.4		ug/kg	
	3	3.33	3.3 - 3.36	20		ug/kg	
	4	3.36	3.33 - 3.39	18.6		ug/kg	
	5	3.52	3.49 - 3.55	20.3		ug/kg	
					19.5		
Aroclor-1260							1.58
Column 1	1	4.01	3.98 - 4.04	24.8		ug/kg	
	2	4.29	4.26 - 4.32	25		ug/kg	
	3	4.45	4.42 - 4.48	25.3		ug/kg	
	4	4.66	4.63 - 4.69	23.6		ug/kg	
	5	4.85	4.82 - 4.88	25.1		ug/kg	
					24.8		
Column 2	1	4.41	4.38 - 4.44	23.1		ug/kg	
	2	4.57	4.54 - 4.6	25		ug/kg	
	3	4.68	4.65 - 4.71	24.4		ug/kg	
	4	4.87	4.84 - 4.9	24.1		ug/kg	
	5	5.5	5.47 - 5.53	25.2		ug/kg	
					24.4		

Identification Summary

Page 1 of 1

SDG Number: 10-1036

Client ID: RE12-10-7296MSD

Lab Sample ID: 1202006789

Data File: 036f3601.d

Data File: 036b3601.d

Inst: ECD2AJ_1

Inst: ECD2AJ_2

Column: CLP1

Column: CLP2

Analyzed: 31-DEC-09 14:05

Analyzed: 31-DEC-09 14:05

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.593
Column 1	1	2.27	2.24 - 2.3	20.6		ug/kg	
	2	2.6	2.57 - 2.63	21.8		ug/kg	
	3	2.69	2.66 - 2.72	21		ug/kg	
	4	2.82	2.79 - 2.85	22.3		ug/kg	
	5	2.97	2.94 - 3	21		ug/kg	
					21.3		
Column 2	1	2.75	2.72 - 2.78	20.6		ug/kg	
	2	3.18	3.15 - 3.21	21		ug/kg	
	3	3.33	3.3 - 3.36	22		ug/kg	
	4	3.36	3.33 - 3.39	20.5		ug/kg	
	5	3.52	3.49 - 3.55	22		ug/kg	
					21.2		
Aroclor-1260							1.57
Column 1	1	4.01	3.98 - 4.04	27.4		ug/kg	
	2	4.29	4.26 - 4.32	26.7		ug/kg	
	3	4.45	4.42 - 4.48	27.1		ug/kg	
	4	4.66	4.63 - 4.69	23.2		ug/kg	
	5	4.85	4.82 - 4.88	27		ug/kg	
					26.3		
Column 2	1	4.41	4.38 - 4.44	25.4		ug/kg	
	2	4.57	4.54 - 4.6	27.8		ug/kg	
	3	4.68	4.65 - 4.71	26.8		ug/kg	
	4	4.87	4.84 - 4.9	26.3		ug/kg	
	5	5.5	5.47 - 5.53	27.1		ug/kg	
					26.7		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1036

Lab Sample ID: 1202005226

Client Sample: QC for batch 937092

Client ID: MB for batch 937092

Batch ID: 937093

Run Date: 12/29/2009 09:27

Prep Date: 12/28/2009 20:43

Data File: 012f1201-1.d

012b1201-1.d

Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecd2a.i/122909.b/012f1201.d
Report Date: 29-Dec-2009 14:39

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/012f1201.d
Lab Smp Id: 1202005226 Client Smp ID: PBLK01
Inj Date : 29-DEC-2009 09:27
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202005226|1|
Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
Meth Date : 29-Dec-2009 13:37 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

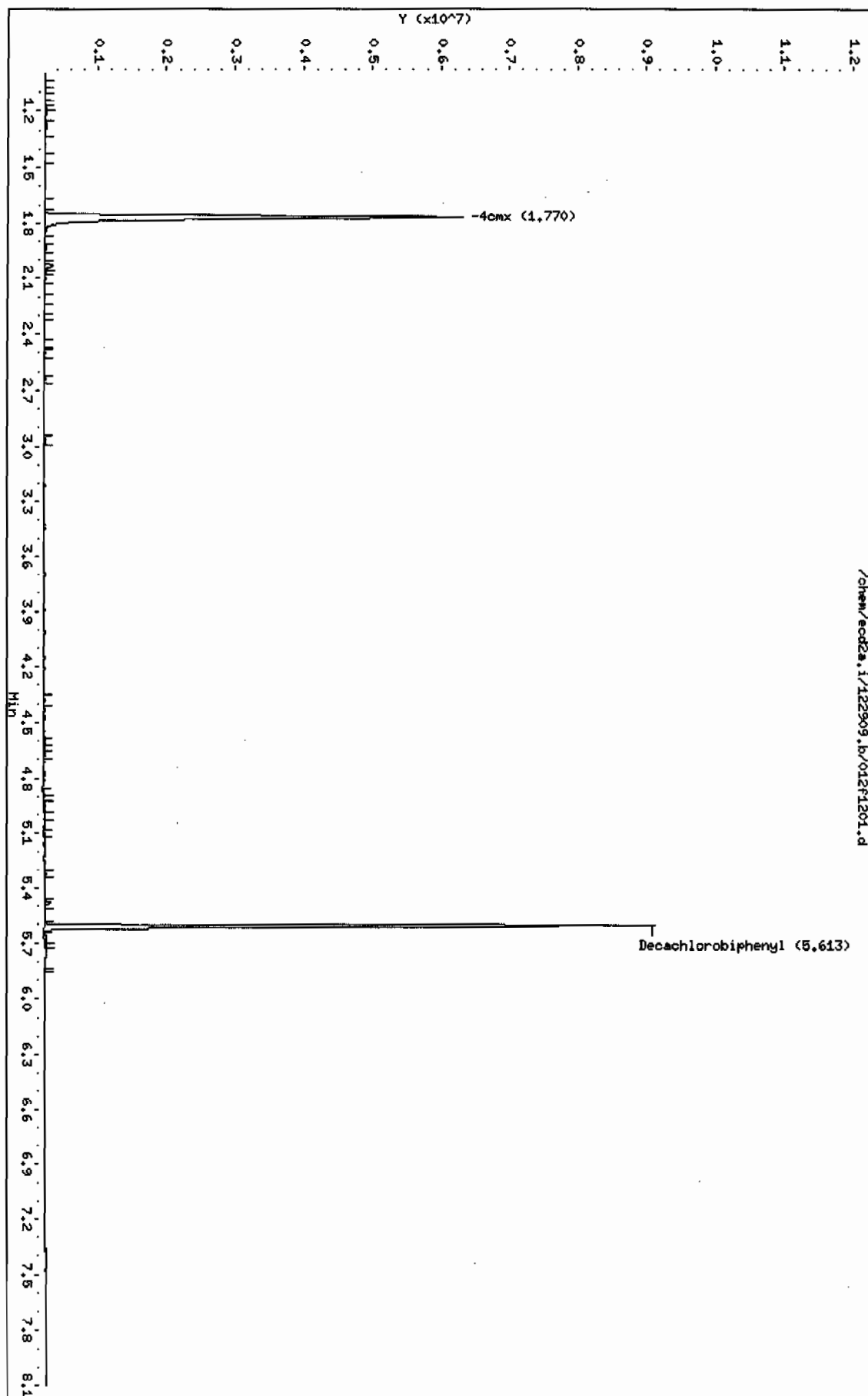
ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8	
1.770	1.771	-0.001	8143925 130.739	4.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.613	5.607	0.006	7671039 141.763	4.7	80.00- 120.00	100.00

Data File: /chem/ecod2a.i/122909.b/012f1201.d
Date: 29-DEC-2009 09:27
Client ID: PLK01
Sample Info: 1120200626111
Volume Injected (uL): 1.0
Column Phase: CLP1

Instrument: ecod2a.i
Operator: JADC
Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/012b1201.d
 Lab Smp Id: 1202005226 Client Smp ID: PBLK01
 Inj Date : 29-DEC-2009 09:27
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005226|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:44 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

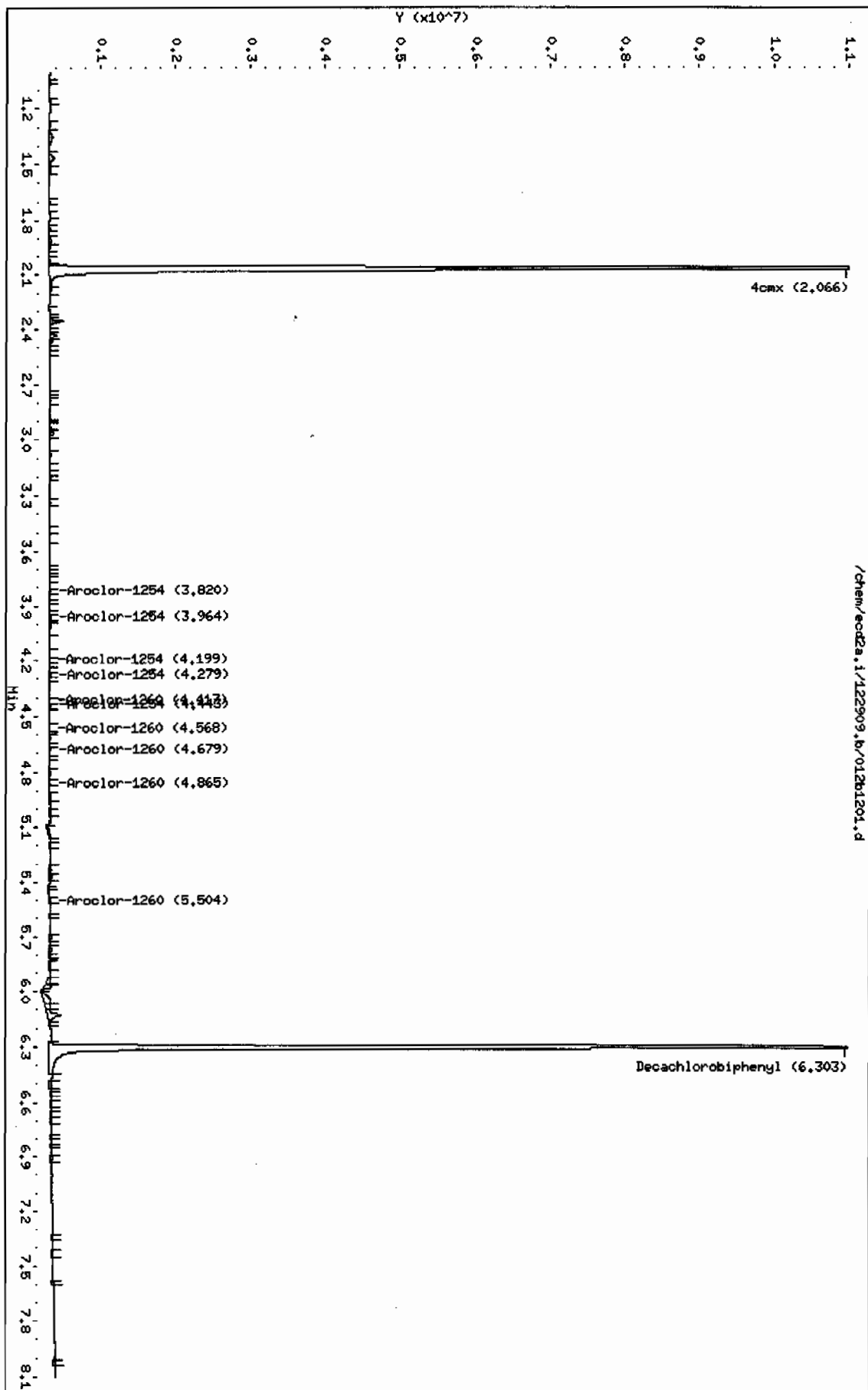
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.066	2.068	-0.002	17916708 138.548	4.6	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.303	6.300	0.003	18327481 162.502	5.4	80.00- 120.00	100.00

Data File: /chem/eod2a.i/122909.b/012b1201.d
Date: 29-DEC-2009 09:27
Client ID: PBLK01
Sample Info: 1120200522611
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JMO
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1036

Lab Sample ID: 1202006786

Client Sample: QC for batch 937789

Client ID: MB for batch 937789

Batch ID: 937791

Run Date: 12/31/2009 13:21

Prep Date: 12/31/2009 08:48

Data File: 032f3201.d

032b3201.d

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	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/ecd2a.i/123109.b/032f3201.d
 Lab Smp Id: 1202006786 Client Smp ID: PBLK02
 Inj Date : 31-DEC-2009 13:21
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202006786|1|
 Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 32 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

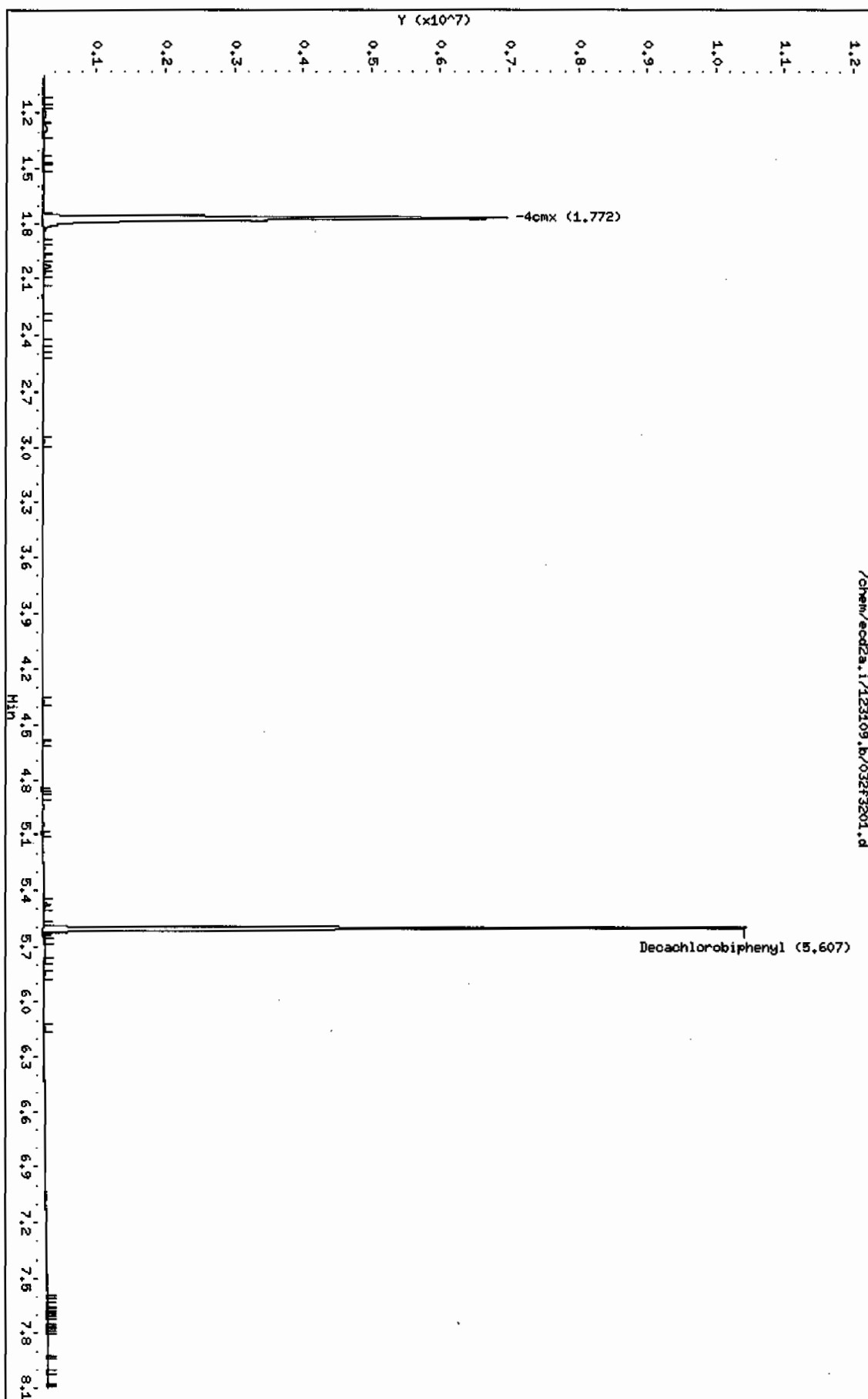
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8				
1.772	1.772	0.000	9018394	144.777	4.8	80.00-	120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
5.607	5.608	-0.001	8779507	162.248	5.4	80.00-	120.00	100.00	

Data File: /chem/ecod2a.i/123109.b/032f3201.d
Date: 31-DEC-2009 13:21
Client ID: PLK02
Sample Info: 1120200678611
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod2a.i
Operator: JHOC
Column diameter: 0.25

Page 1



Data File: /chem/ecd2a.i/123109.b/032b3201.d
 Report Date: 04-Jan-2010 09:18

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/032b3201.d
 Lab Smp Id: 1202006786 Client Smp ID: PBLK02
 Inj Date : 31-DEC-2009 13:21
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202006786|1|
 Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 32 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

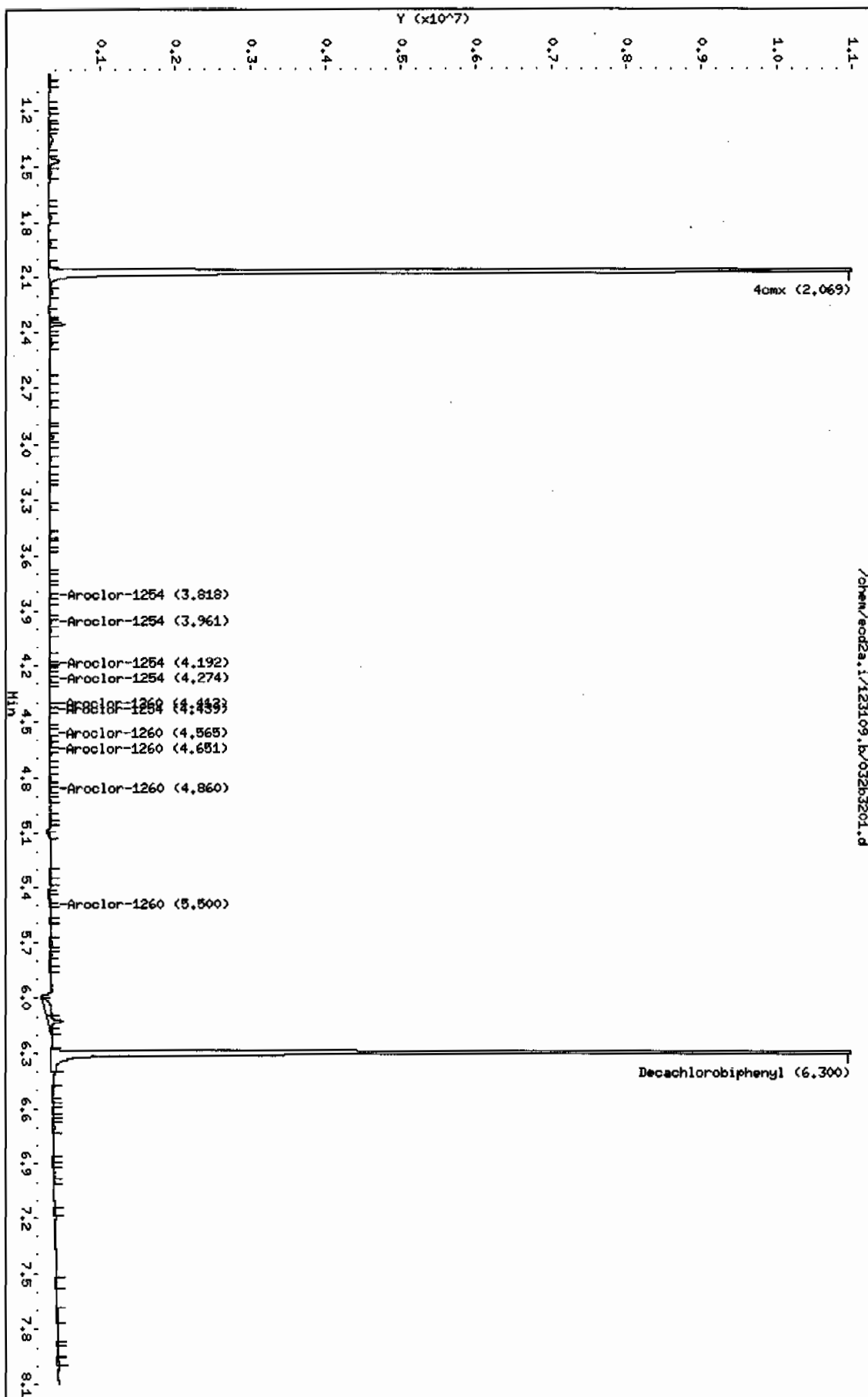
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.069	2.069	0.000	19926576	154.090	5.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.300	6.300	0.000	19769356	175.287	5.8 80.00- 120.00	100.00

Data File: /chem/eod2a.i/123109.b/032b3201.d
Date: 31-DEC-2009 13:21
Client ID: PBAK02
Sample Info: 1120200678611
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1036

Lab Sample ID: 1202005227

Client Sample: QC for batch 937092

Client ID: LCS for batch 937092

Batch ID: 937093

Run Date: 12/29/2009 09:38

Prep Date: 12/28/2009 20:43

Data File: 013f1301-1.d

013b1301-1.d

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		21.1	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		26.3	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/013f1301.d
 Lab Smp Id: 1202005227 Client Smp ID: PBLK01LCS
 Inj Date : 29-DEC-2009 09:38
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005227|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

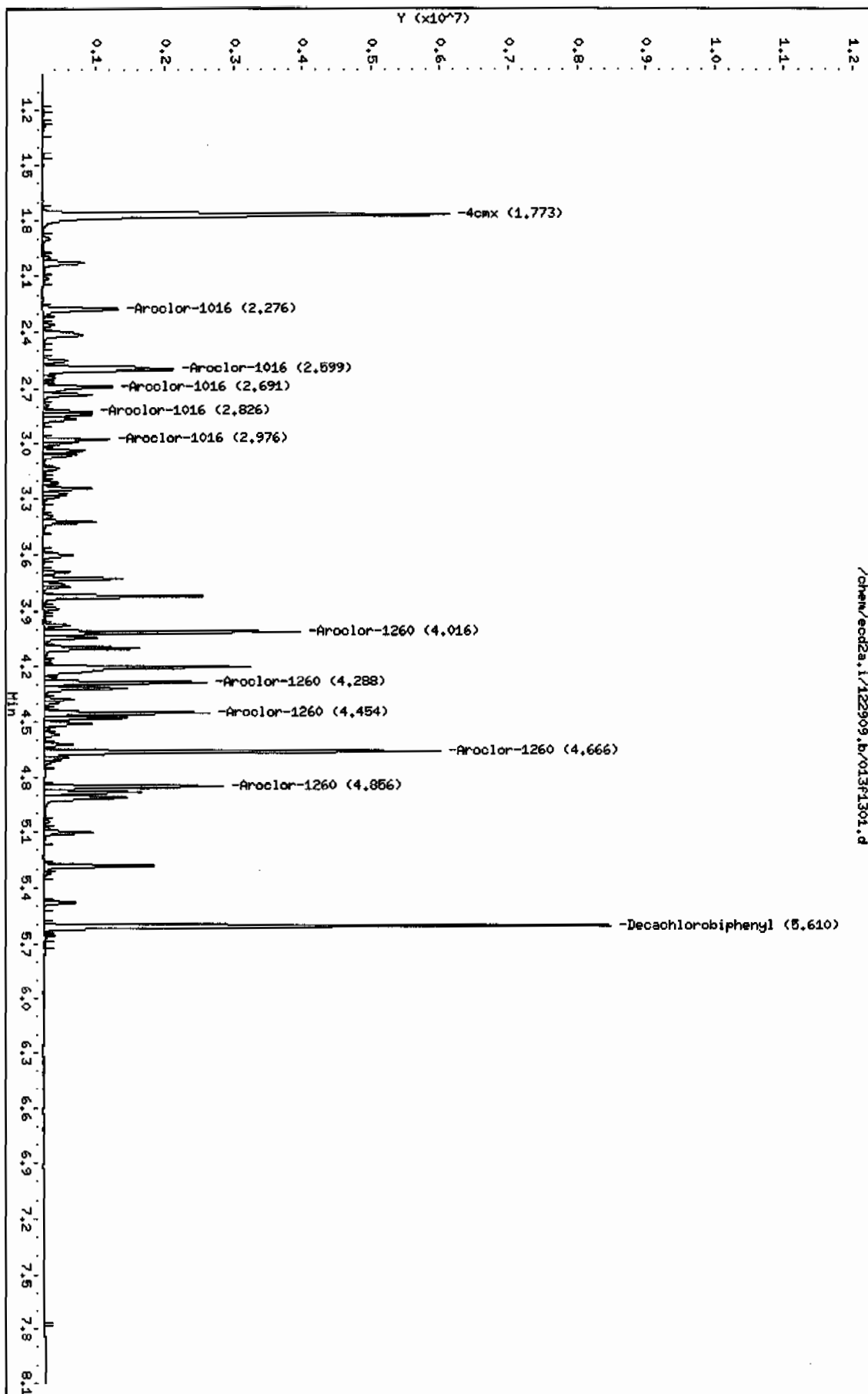
Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL (ug/Kg)	TARGET RANGE	RATIO	
\$ 11 4cmx					CAS #: 877-09-8			
1.773	1.771	0.002	8184621 131.392	4.4	80.00- 120.00	100.00		
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.610	5.607	0.003	7531097 139.177	4.6	80.00- 120.00	100.00		
1 Aroclor-1016					CAS #: 12674-11-2			
2.276	2.273	0.003	1464235 654.351	21.8	80.00- 120.00	100.00		
2.599	2.597	0.002	2965794 633.004	21.1	191.82- 231.82	202.55		
2.691	2.688	0.003	1186756 624.122	20.8	64.77- 104.77	81.05		
2.826	2.823	0.003	618759 633.989	21.1	22.45- 62.45	42.26		
2.976	2.974	0.002	915257 627.806	20.9	43.69- 83.69	62.51		
Average of Peak Concentrations =				21.1				

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5		
4.016	4.014	0.002	3171930 761.550	25.4	80.00- 120.00	100.00
4.288	4.286	0.002	2014984 777.815	25.9	42.92- 82.92	63.53
4.454	4.451	0.003	2076929 789.345	26.3	46.15- 86.15	65.48
4.666	4.664	0.002	5017946 824.290	27.5	132.63- 172.63	158.20
4.856	4.853	0.003	2320195 788.605	26.3	53.77- 93.77	73.15
Average of Peak Concentrations =				26.3		

Data File: /chem/eod2a.i/122909.b/013F1301.d
Date : 29-DEC-2009 09:38
Client ID: PBLK01LCS
Sample Info: 120200522711
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/013b1301.d
 Report Date: 30-Dec-2009 08:28

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/013b1301.d
 Lab Smp Id: 1202005227 Client Smp ID: PBLK01LCS
 Inj Date : 29-DEC-2009 09:38
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005227|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	

\$ 11 4cmx			CAS #: 877-09-8				
2.070	2.068	0.002	17898820 138.409	4.6	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
6.302	6.300	0.002	17817344 157.979	5.3	80.00- 120.00	100.00	

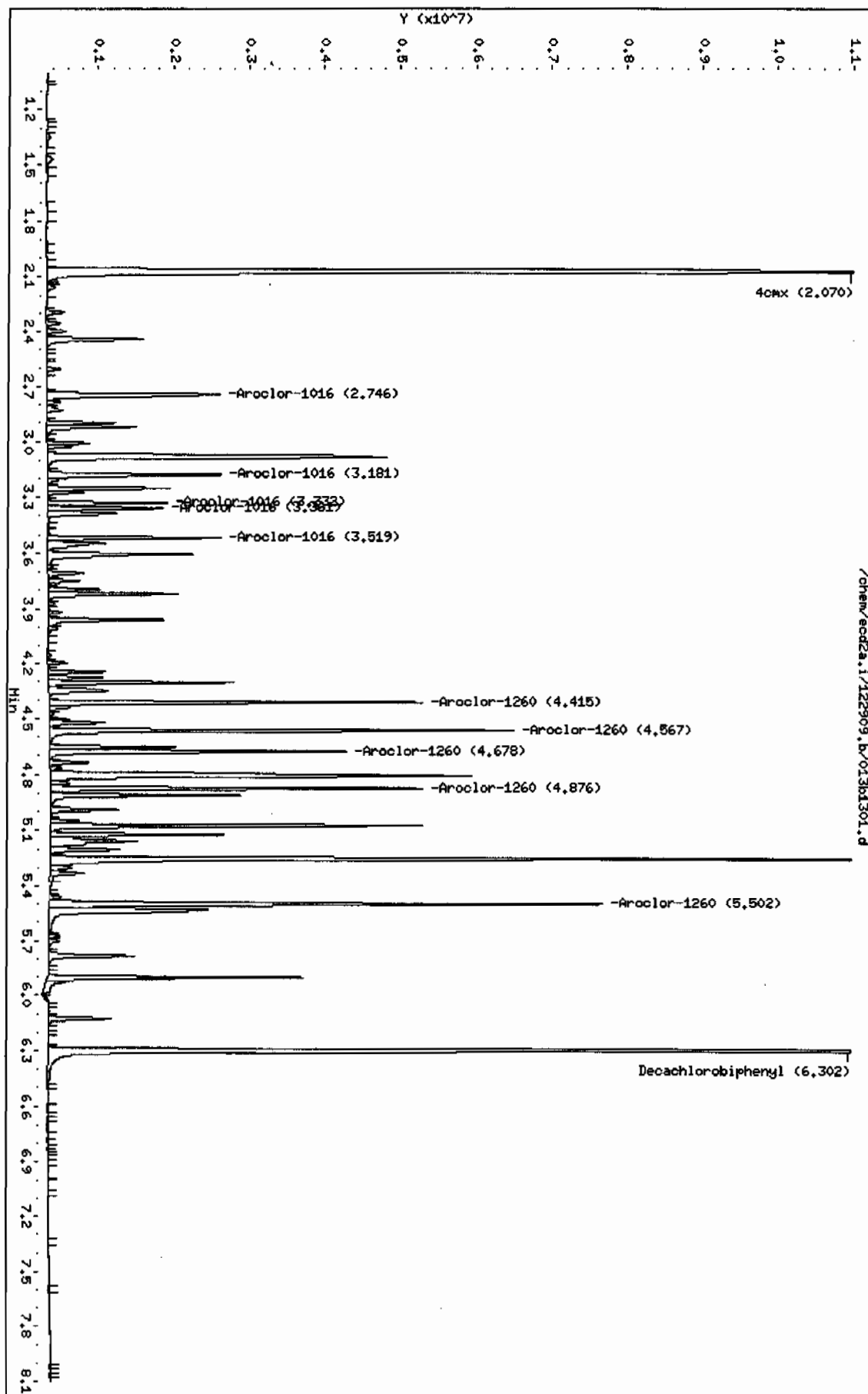
1 Aroclor-1016		CAS #: 12674-11-2					
2.746	2.745	0.001	2879212 634.492	21.1	80.00- 120.00	100.00	
3.181	3.179	0.002	2234760 620.393	20.7	58.34- 98.34	77.62	
3.332	3.330	0.002	1305611 635.882	21.2	24.56- 64.56	45.35	
3.361	3.359	0.002	1333055 623.771	20.8	26.71- 66.71	46.30	

CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====		
1 Aroclor-1016 (continued)								
3.519	3.518	0.001	1829775	637.438	21.2	43.42-	83.42	63.55
Average of Peak Concentrations =					21.0			

7 Aroclor-1260					CAS #: 11096-82-5			
4.415	4.414	0.001	4221981	732.103	24.4	80.00-	120.00	100.00
4.567	4.565	0.002	5453794	765.564	25.5	107.94-	147.94	129.18
4.678	4.677	0.001	3640930	755.582	25.2	67.11-	107.11	86.24
4.876	4.874	0.002	4331800	769.174	25.6	80.57-	120.57	102.60
5.502	5.500	0.002	7406477	819.526	27.3	146.62-	186.62	175.43
Average of Peak Concentrations =					25.6			

Data File: /chem/ecd2a.i/122909.b/013b1301.d
Date: 29-DEC-2009 09:38
Client ID: PBLK01LCS
Sample Info: 122000522711
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd2a.i
Operator: JHOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036

Lab Sample ID: 1202006787

Client Sample: QC for batch 937789

Client ID: LCS for batch 937789

Batch ID: 937791

Run Date: 12/31/2009 13:32

Prep Date: 12/31/2009 08:48

Data File: 033f3301.d

033b3301.d

Client: LANL010

Method: SW846 8082

Inst: ECD2A.I

Analyst: JAOC

Aliquot: 30 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

Project: QC

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		23.0	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		30.4	ug/kg	1.11	3.33	1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/033f3301.d
 Lab Smp Id: 1202006787 Client Smp ID: PBLK02LCS
 Inj Date : 31-DEC-2009 13:32
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202006787|1|
 Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|LCS|||
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
 Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 33 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.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			
1.773	1.772	0.001	9009536 144.635	4.8	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.608	5.608	0.000	8848340 163.520	5.4	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
2.276	2.274	0.002	1492485 666.976	22.2	80.00- 120.00	100.00 (M)	
2.599	2.598	0.001	3226158 688.575	23.0	192.27- 232.27	216.16	
2.689	2.689	0.000	1286773 676.721	22.6	65.25- 105.25	86.22	
2.824	2.824	0.000	684421 701.267	23.4	22.83- 62.83	45.86	

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)									
2.976	2.975	0.001	997472	684.200	22.8	44.32-	84.32	66.83	
Average of Peak Concentrations =					22.8				

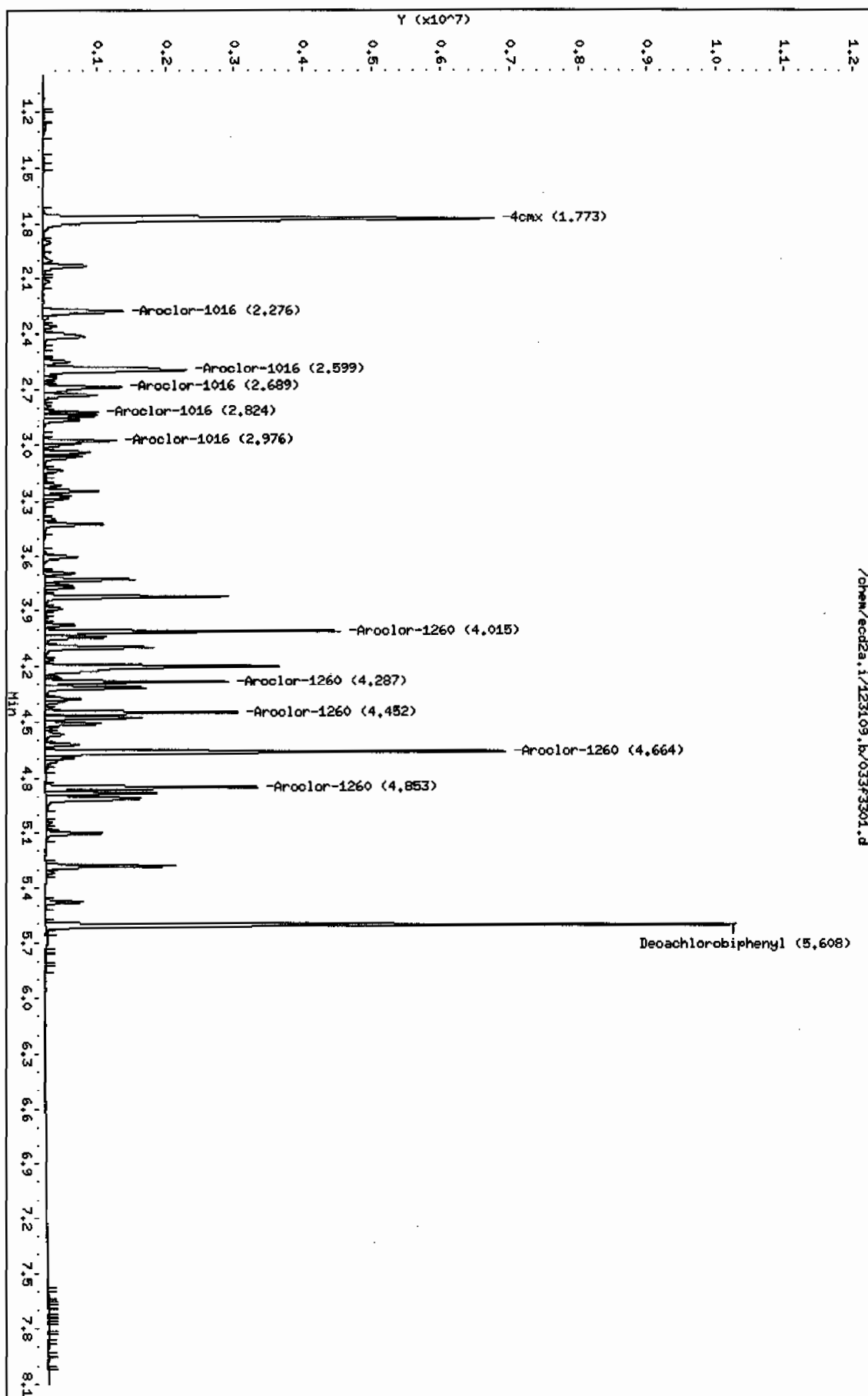
7 Aroclor-1260					CAS #: 11096-82-5				
4.015	4.015	0.000	3633951	872.477	29.1	80.00-	120.00	100.00	
4.287	4.287	0.000	2298131	887.114	29.6	42.76-	82.76	63.24	
4.452	4.452	0.000	2394530	910.051	30.3	44.99-	84.99	65.89	
4.664	4.664	0.000	5793169	951.635	31.7	134.44-	174.44	159.42	
4.853	4.854	-0.001	2756717	936.974	31.2	55.22-	95.22	75.86	
Average of Peak Concentrations =					30.4				

QC Flag Legend

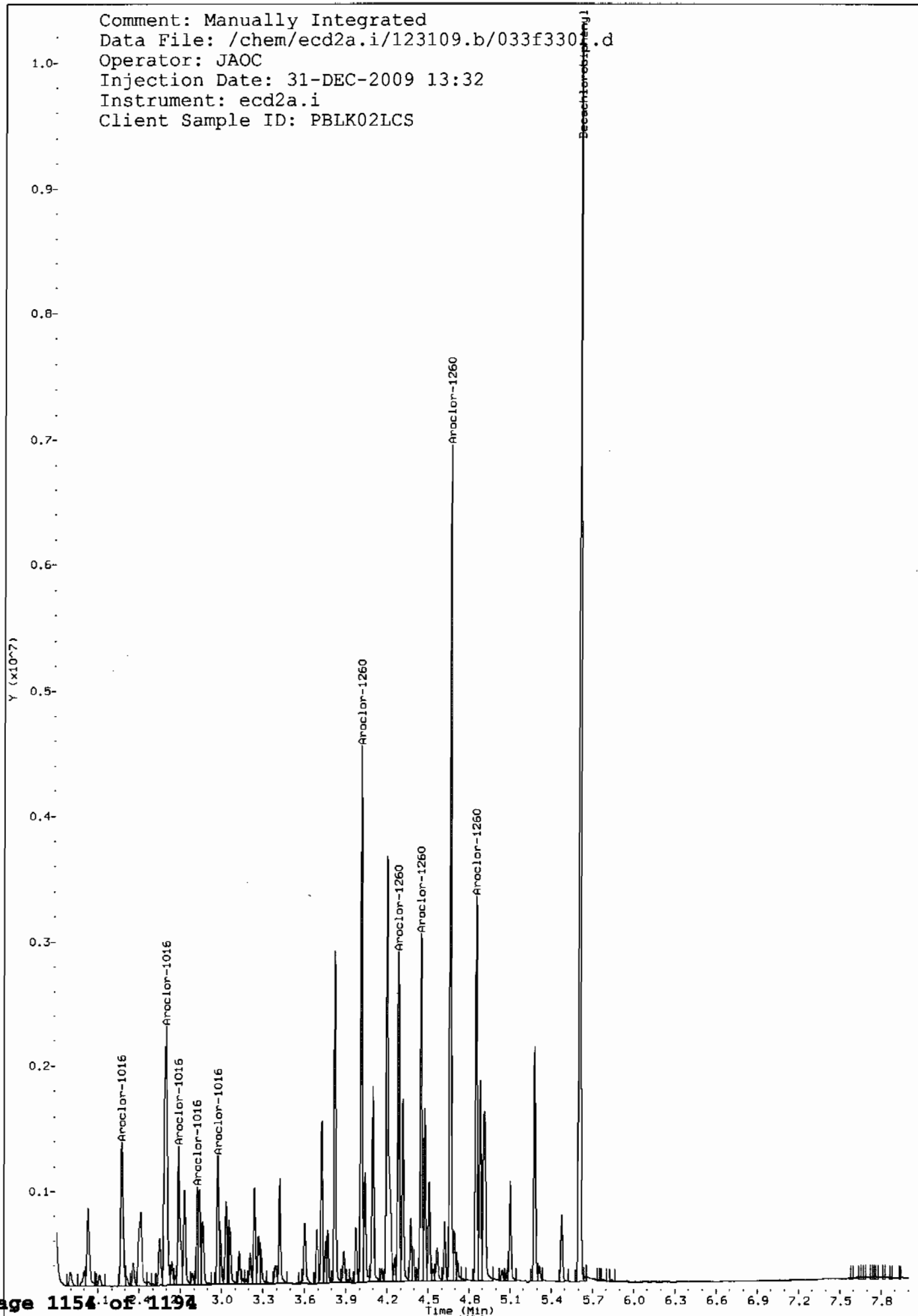
M - Compound response manually integrated.

Data File: /chem/ecd2a.1/123109.b/03F3301.d
Date: 31-DEC-2009 13:32
Client ID: PBLK02LCS
Sample Info: 1120200678711
Volume Injected (uL): 1.0
Column Phase: CLP1

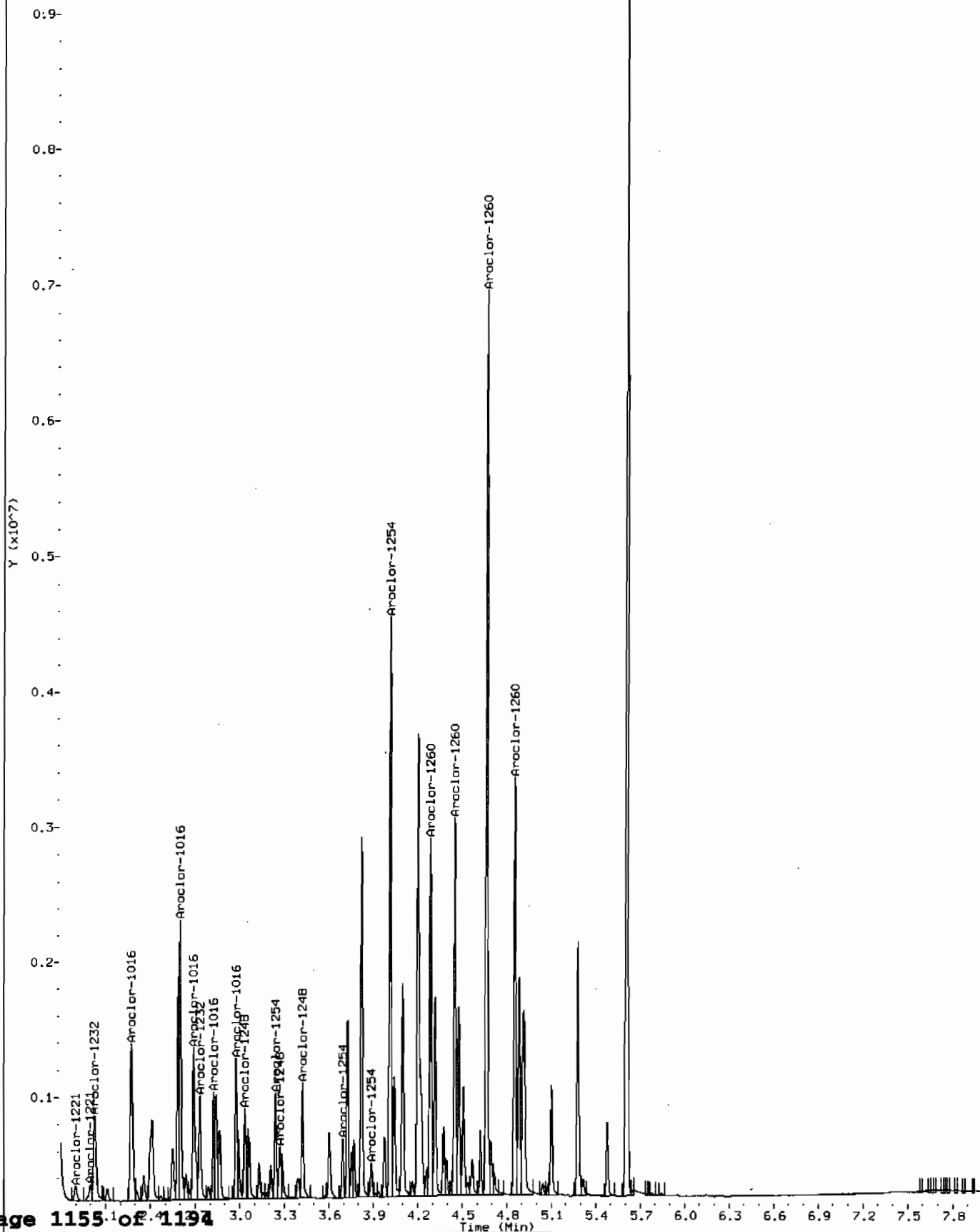
Instrument: ecd2a.1
Operator: JADC
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecd2a.i/123109.b/033f330.d
Operator: JAOC
Injection Date: 31-DEC-2009 13:32
Instrument: ecd2a.i
Client Sample ID: PBLK02LCS



Comment: Before manual integration
Data File: /chem/ecd2a.i/123109.b/orig-03f3301.d
Operator: JAOC
Injection Date: 31-DEC-2009 13:32
Instrument: ecd2a.i
Client Sample ID: PBLK02LCS



Data File: /chem/ecd2a.i/123109.b/033b3301.d
Report Date: 04-Jan-2010 09:18

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/033b3301.d
Lab Smp Id: 1202006787 Client Smp ID: PBLK02LCS
Inj Date : 31-DEC-2009 13:32
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202006787|1|
Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8							
2.069	2.069	0.000	19874674 153.688	5.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.300	6.300	0.000	19692033 174.601	5.8	80.00- 120.00	100.00	

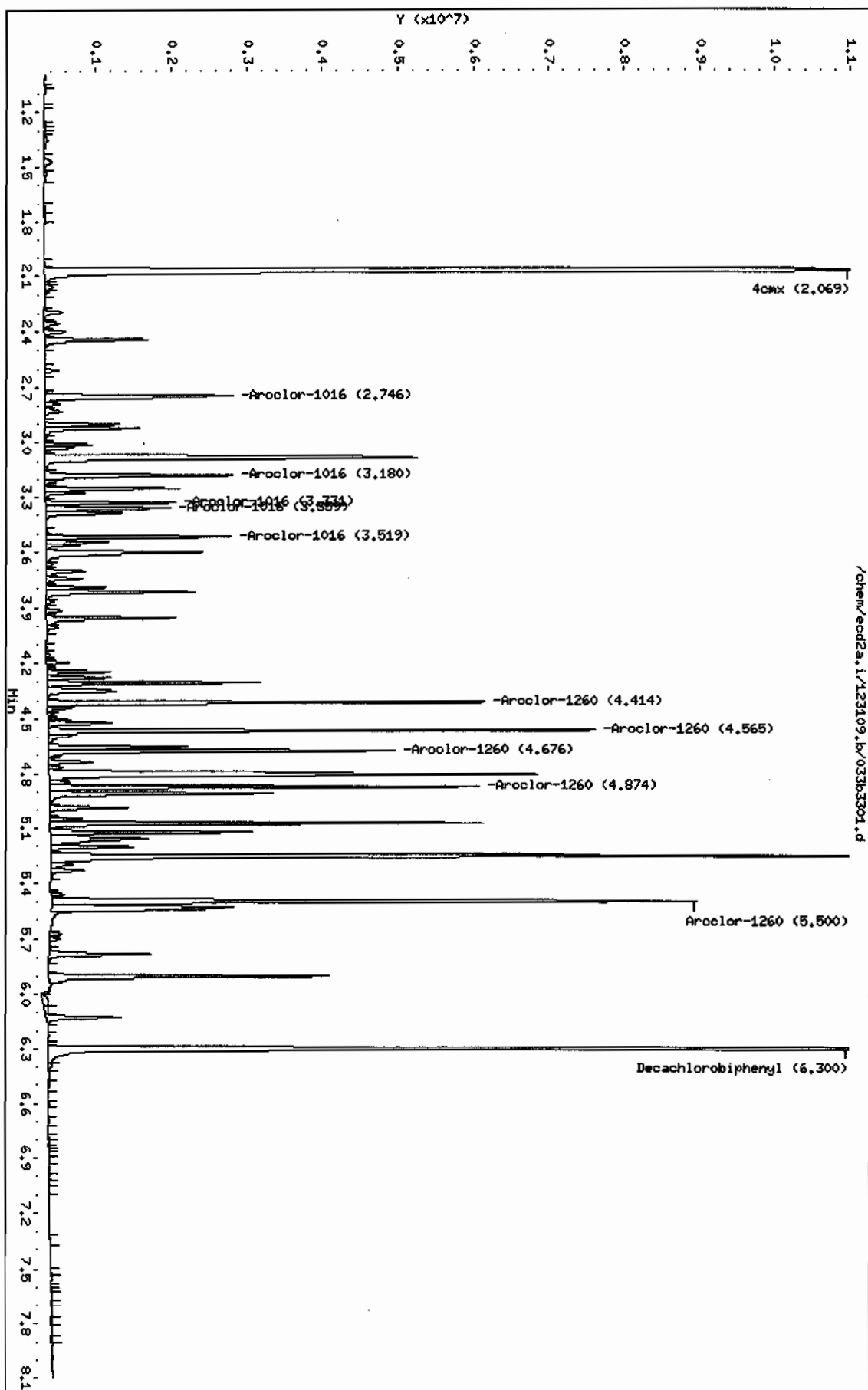
1 Aroclor-1016 CAS #: 12674-11-2							
2.746	2.745	0.001	3083715 679.559	22.6	80.00- 120.00	100.00	
3.180	3.179	0.001	2443127 678.238	22.6	58.40- 98.40	79.23	
3.331	3.331	0.000	1440857 701.751	23.4	25.06- 65.06	46.72	
3.359	3.359	0.000	1478187 691.682	23.0	27.01- 67.01	47.94	

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
1 Aroclor-1016 (continued)								
3.519	3.518	0.001	2005738	698.738	23.3	43.68-	83.68	65.04
Average of Peak Concentrations =					23.0			

7 Aroclor-1260					CAS #: 11096-82-5			
4.414	4.414	0.000	4835748	838.532	28.0	80.00-	120.00	100.00
4.565	4.565	0.000	6184064	868.074	28.9	107.43-	147.43	127.88
4.676	4.677	-0.001	4206553	872.963	29.1	66.66-	106.66	86.99
4.874	4.874	0.000	4998343	887.528	29.6	79.77-	119.77	103.36
5.500	5.500	0.000	8518778	942.602	31.4	145.98-	185.98	176.16
Average of Peak Concentrations =					29.4			

Data File: /chem/eod2a.i/123109.b/03363301.d
 Date : 31-DEC-2009 13:32
 Client ID: PRK02LCS
 Sample Info: 120200678711
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod2a.i
 Operator: JROC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1036
Lab Sample ID: 1202006788
Client Sample: QC for batch 937789
Client ID: RE12-10-7296MS
Batch ID: 937791
Run Date: 12/31/2009 13:54
Prep Date: 12/31/2009 08:48
Data File: 035f3501.d
035b3501.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.1
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 8
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		19.5	ug/kg	1.21	3.62	1
11104-28-2	Aroclor-1221	U	3.62	ug/kg	1.21	3.62	1
11141-16-5	Aroclor-1232	U	3.62	ug/kg	1.21	3.62	1
53469-21-9	Aroclor-1242	U	3.62	ug/kg	1.21	3.62	1
12672-29-6	Aroclor-1248	U	3.62	ug/kg	1.21	3.62	1
11097-69-1	Aroclor-1254	U	3.62	ug/kg	1.21	3.62	1
11096-82-5	Aroclor-1260		24.8	ug/kg	1.21	3.62	1

Data File: /chem/ecd2a.i/123109.b/035f3501.d
Report Date: 04-Jan-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd2a.i/123109.b/035f3501.d
Lab Smp Id: 1202006788 Client Smp ID: RE12-10-7296MS
Inj Date : 31-DEC-2009 13:54
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202006788|1|
Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MS|||
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.99040	% Moisture

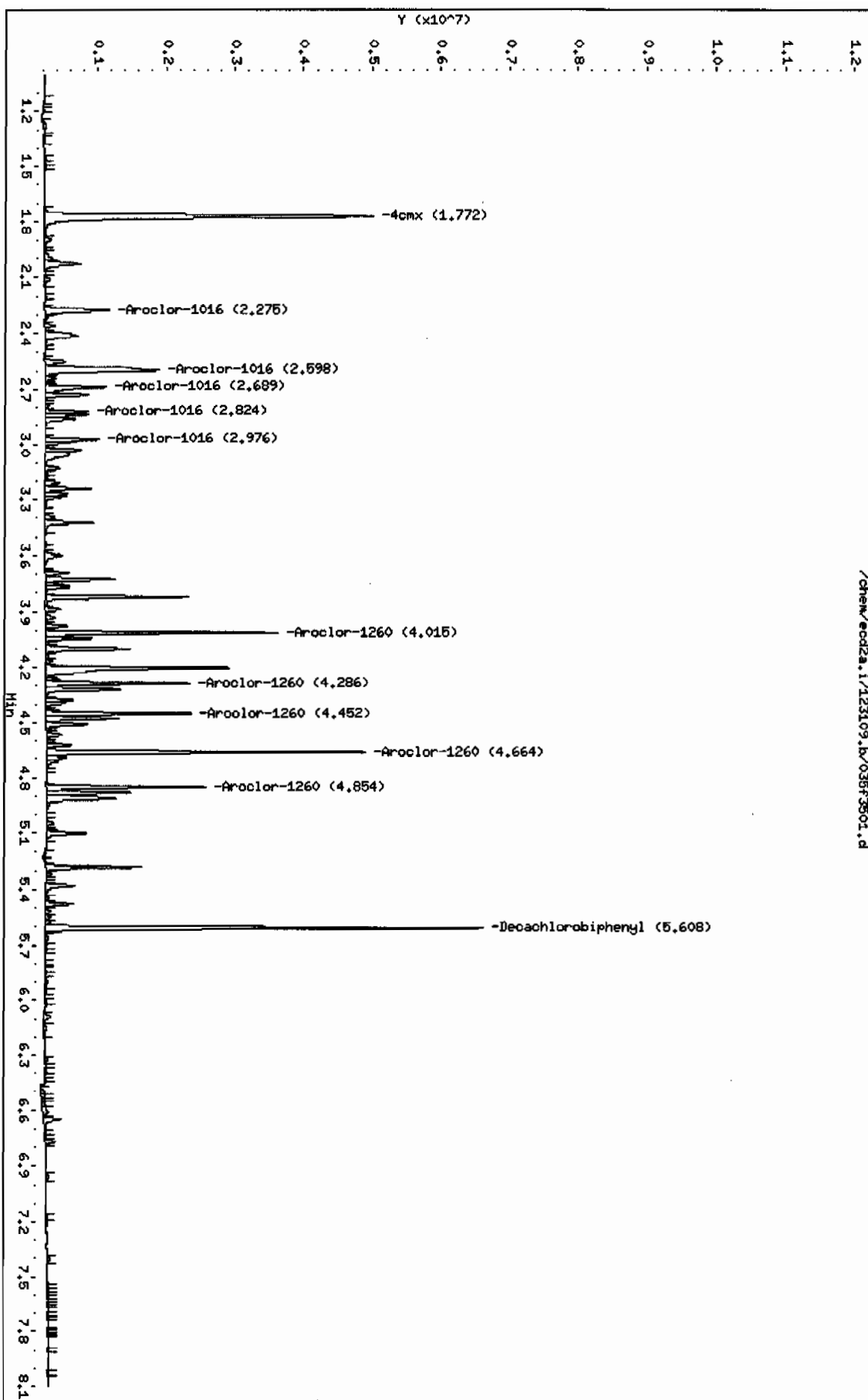
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
CAS #: 877-09-8							
\$ 11 4cmx	1.772	1.772	0.000	6638809 106.576	3.9 80.00- 120.00	100.00	
CAS #: 2051-24-3							
\$ 12 Decachlorobiphenyl	5.608	5.608	0.000	5582340 103.164	3.7 80.00- 120.00	100.00	
CAS #: 12674-11-2							
1 Aroclor-1016	2.275	2.274	0.001	1190078 531.833	19.3 80.00- 120.00	100.00	
	2.598	2.598	0.000	2596546 554.194	20.1 192.27- 232.27	218.18	
	2.689	2.689	0.000	1019318 536.065	19.4 65.25- 105.25	85.65	
	2.824	2.824	0.000	536868 550.082	19.9 22.83- 62.83	45.11	
	2.976	2.975	0.001	759255 520.799	18.9 44.32- 84.32	63.80	
Average of Peak Concentrations =				19.5			

		CONCENTRATIONS							
		ON-COL		FINAL					
RT	EXP RT	DLT RT	RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====		=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5					
4.015	4.015	0.000		2852071	684.755	24.8	80.00- 120.00	100.00	
4.286	4.287	-0.001		1790237	691.059	25.0	42.76- 82.76	62.77	
4.452	4.452	0.000		1835573	697.617	25.3	44.99- 84.99	64.36	
4.664	4.664	0.000		3958236	650.213	23.6	134.44- 174.44	138.78	
4.854	4.854	0.000		2038622	692.902	25.1	55.22- 95.22	71.48	
Average of Peak Concentrations =				24.8					

Data File: /chem/eod2a.1/123109.b/035F3501.d
Date: 31-DEC-2009 13:54
Client ID: REL-10-7296HS
Sample Info: 1120200678811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.1
Operator: JHOC
Column diameter: 0.25



Data File: /chem/ecd2a.i/123109.b/035b3501.d
 Report Date: 04-Jan-2010 08:31

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/035b3501.d

Lab Smp Id: 1202006788

Client Smp ID: RE12-10-7296MS

Inj Date : 31-DEC-2009 13:54

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |1202006788|1|

Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m

Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012b1201.d

Als bottle: 35

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1036.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.99040	% Moisture

Cpnd Variable

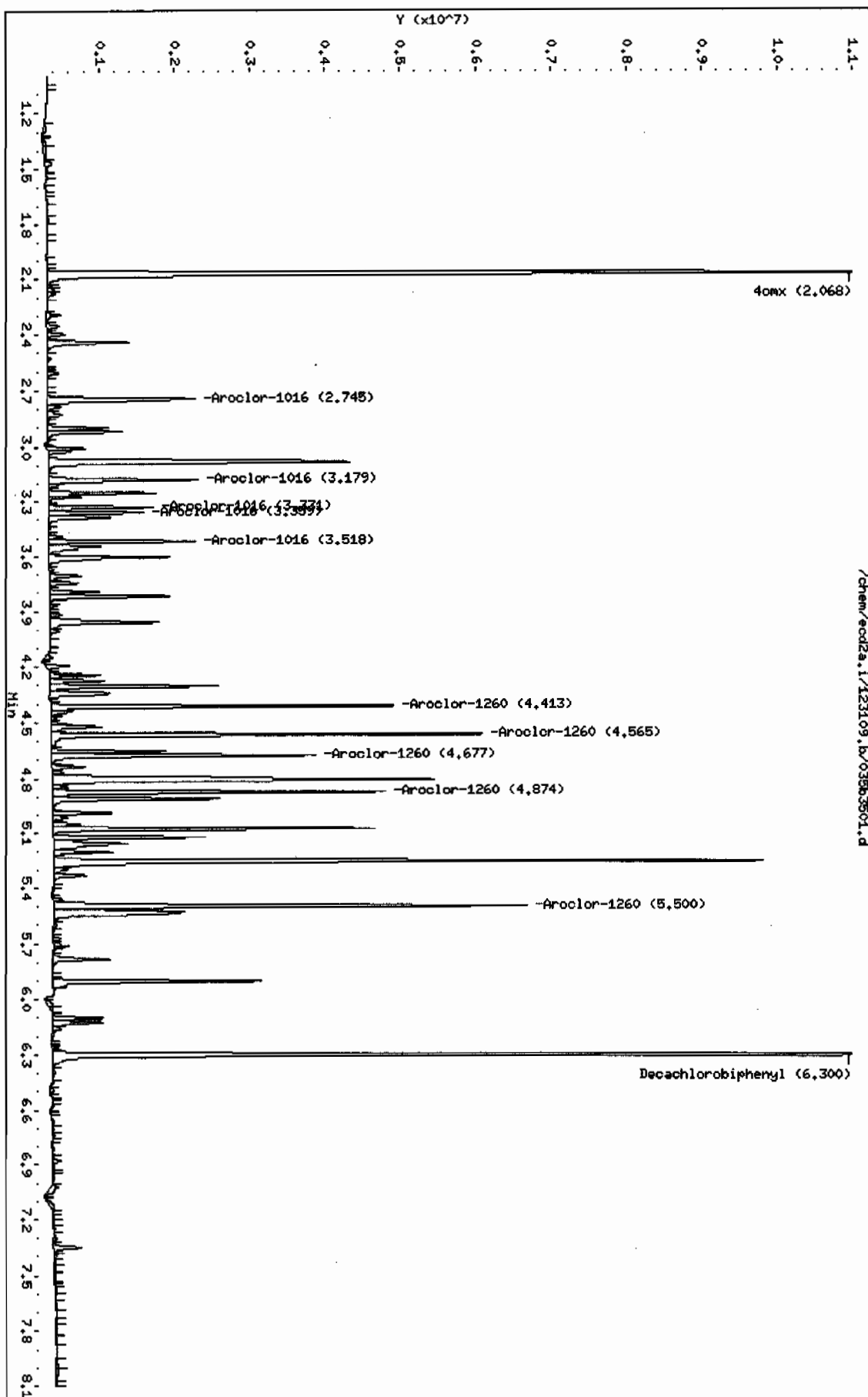
Local Compound Variable

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
2.068	2.069	-0.001	14338915	110.881	4.0 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.300	6.300	0.000	13531530	119.978	4.3 80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
2.745	2.745	0.000	2408571	530.777	19.2 80.00- 120.00	100.00
3.179	3.179	0.000	1925141	534.440	19.4 58.40- 98.40	79.93
3.331	3.331	0.000	1131564	551.114	20.0 25.06- 65.06	46.98
3.359	3.359	0.000	1097647	513.617	18.6 27.01- 67.01	45.57
3.518	3.518	0.000	1605412	559.276	20.3 43.68- 83.68	66.65
Average of Peak Concentrations =			19.5			

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5		
4.413	4.414	-0.001	3673876 637.060	23.1	80.00- 120.00	100.00
4.565	4.565	0.000	4917333 690.259	25.0	107.43- 147.43	133.85
4.677	4.677	0.000	3249787 674.411	24.4	66.66- 106.66	88.46
4.874	4.874	0.000	3751920 666.208	24.1	79.77- 119.77	102.12
5.500	5.500	0.000	6281031 694.996	25.2	145.98- 185.98	170.96
Average of Peak Concentrations =				24.4		

Data File: /chem/eod2a.i/123109.b/03B3501.d
 Date : 31-DEC-2009 13:54
 Client ID: RE12-10-7296HS
 Sample Info: 120200678811
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod2a.i
 Operator: JHOC
 Column diameter: 0.25



PCB

Page 1 of 1

Certificate of Analysis
Sample Summary

SDG Number: 10-1036
Lab Sample ID: 1202006789
Client Sample: QC for batch 937789
Client ID: RE12-10-7296MSD
Batch ID: 937791
Run Date: 12/31/2009 14:05
Prep Date: 12/31/2009 08:48
Data File: 036f3601.d
036b3601.d

Date Collected: 12/18/2009 12:00
Date Received: 12/23/2009 10:10
Client: LANL010
Method: SW846 8082
Inst: ECD2A.I
Analyst: JAOC
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 8
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		21.3	ug/kg	1.21	3.62	1
11104-28-2	Aroclor-1221	U	3.62	ug/kg	1.21	3.62	1
11141-16-5	Aroclor-1232	U	3.62	ug/kg	1.21	3.62	1
53469-21-9	Aroclor-1242	U	3.62	ug/kg	1.21	3.62	1
12672-29-6	Aroclor-1248	U	3.62	ug/kg	1.21	3.62	1
11097-69-1	Aroclor-1254	U	3.62	ug/kg	1.21	3.62	1
11096-82-5	Aroclor-1260		26.3	ug/kg	1.21	3.62	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/036f3601.d
Lab Smp Id: 1202006789 Client Smp ID: RE12-10-7296MSD
Inj Date : 31-DEC-2009 14:05
Operator : JAOC Inst ID: ecd2a.i
Smp Info : |1202006789|1|
Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MSD|1|1|
Comment :
Method : /chem/ecd2a.i/123109.b/ECD2-F-8082-111209A.m
Meth Date : 04-Jan-2010 08:01 jen01212 Quant Type: ESTD
Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1036.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	7.99040	% Moisture

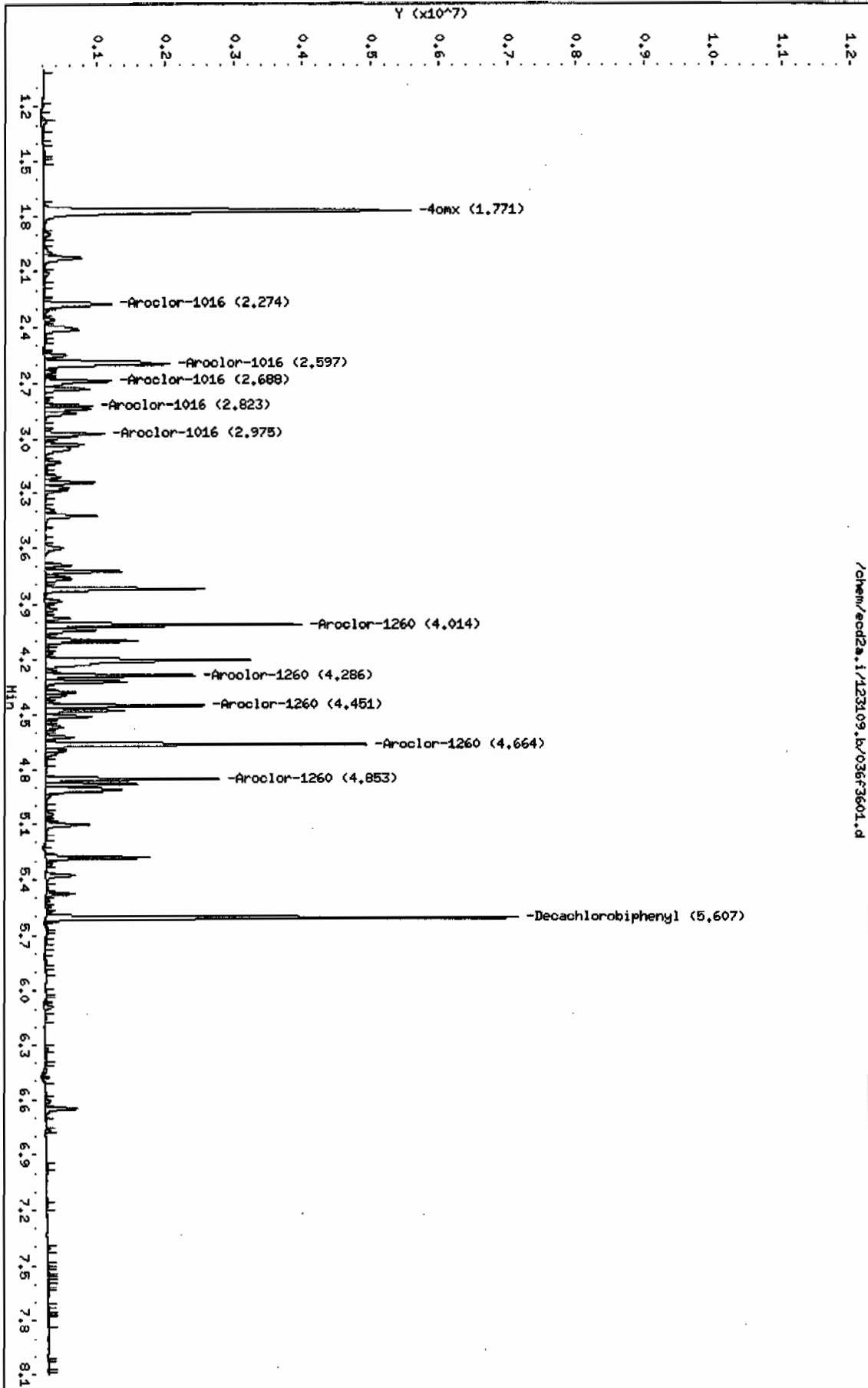
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
1.771	1.772	-0.001	7403311	118.849	4.3 80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.607	5.608	-0.001	5922602	109.452	4.0 80.00- 120.00	100.00	
1 Aroclor-1016					CAS #: 12674-11-2		
2.274	2.274	0.000	1269923	567.515	20.6 80.00- 120.00	100.00	
2.597	2.598	-0.001	2813988	600.603	21.8 192.27- 232.27	221.59	
2.688	2.689	-0.001	1102723	579.928	21.0 65.25- 105.25	86.83	
2.823	2.824	-0.001	601066	615.860	22.3 22.83- 62.83	47.33	
2.975	2.975	0.000	846906	580.922	21.0 44.32- 84.32	66.69	
Average of Peak Concentrations =				21.3			

			CONCENTRATIONS				
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5		
4.014	4.015	-0.001	3149154	756.082	27.4	80.00- 120.00	100.00
4.286	4.287	-0.001	1909580	737.127	26.7	42.76- 82.76	60.64
4.451	4.452	-0.001	1971939	749.443	27.1	44.99- 84.99	62.62
4.664	4.664	0.000	3907056	641.806	23.2	134.44- 174.44	124.07
4.853	4.854	-0.001	2191513	744.868	27.0	55.22- 95.22	69.59
Average of Peak Concentrations =					26.3		

Data File: /chem/eod2a.i/123109.b/036f3601.d
Date: 31-DEC-2009 14:05
Client ID: RE12-10-7296USD
Sample Info: 1202006789111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/123109.b/036b3601.d
 Lab Smp Id: 1202006789 Client Smp ID: RE12-10-7296MSD
 Inj Date : 31-DEC-2009 14:05
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202006789|1|
 Misc Info : |ECD82P_1S|937791|SVA|QC A|SOIL|MSD|1|
 Comment :
 Method : /chem/ecd2a.i/123109.b/ECD2-B-8082-111209A.m
 Meth Date : 04-Jan-2010 08:00 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 36 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1036.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	7.99040	% 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							
2.068	2.069	-0.001	16083121	124.369	4.5	80.00~ 120.00	100.00

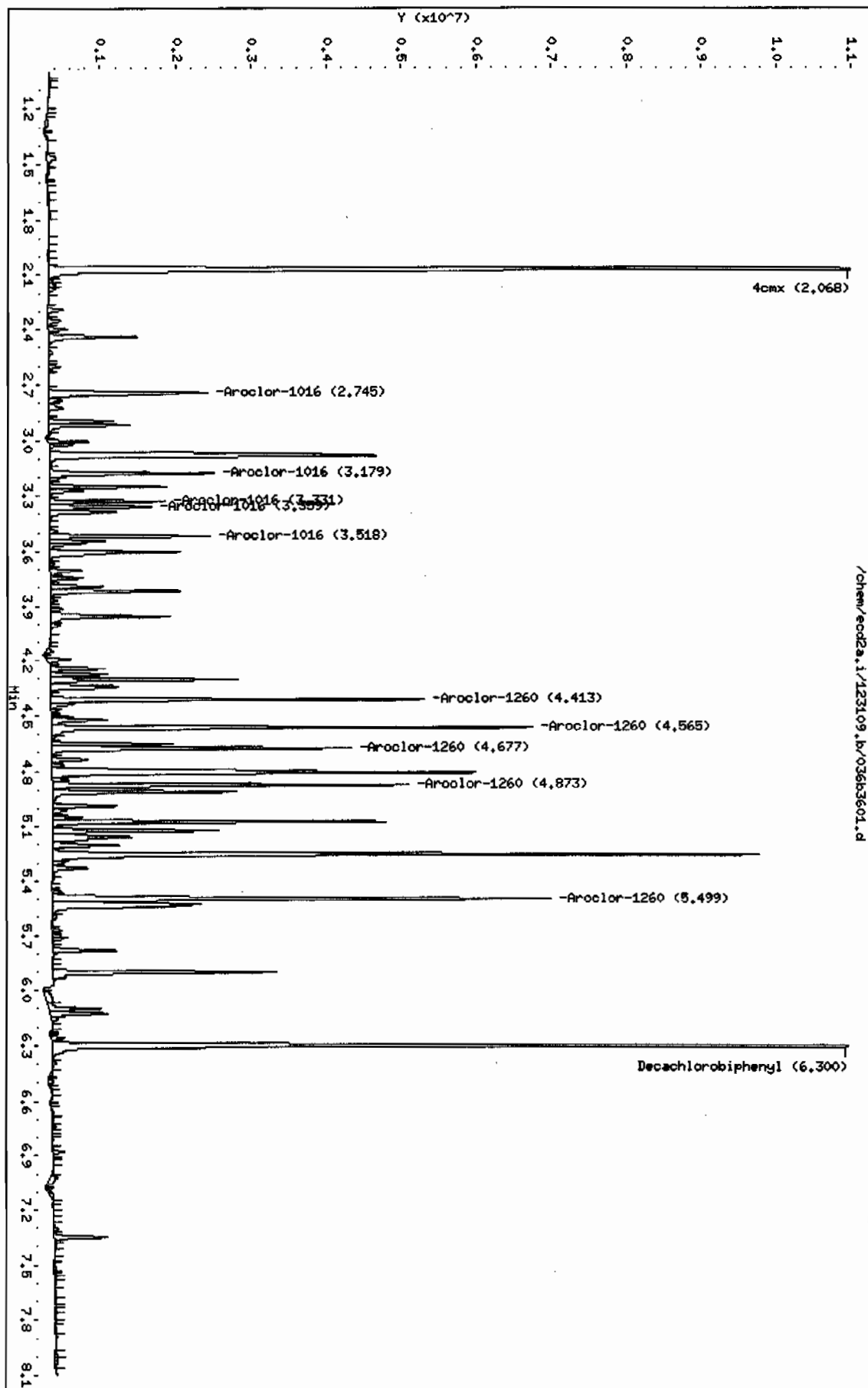
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.300	6.300	0.000	15062074	133.549	4.8	80.00~ 120.00	100.00

1 Aroclor-1016 CAS #: 12674-11-2							
2.745	2.745	0.000	2576235	567.725	20.6	80.00~ 120.00	100.00
3.179	3.179	0.000	2087672	579.560	21.0	58.40~ 98.40	81.04
3.331	3.331	0.000	1245648	606.677	22.0	25.06~ 65.06	48.35
3.359	3.359	0.000	1207746	565.136	20.5	27.01~ 67.01	46.88
3.518	3.518	0.000	1746210	608.326	22.0	43.68~ 83.68	67.78
Average of Peak Concentrations =					21.2		

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.413	4.414	-0.001	4048179	701.965	25.4 80.00- 120.00	100.00
4.565	4.565	0.000	5470731	767.941	27.8 107.43- 147.43	135.14
4.677	4.677	0.000	3567386	740.320	26.8 66.66- 106.66	88.12
4.873	4.874	-0.001	4094698	727.073	26.3 79.77- 119.77	101.15
5.499	5.500	-0.001	6772402	749.366	27.1 145.98- 185.98	167.30
Average of Peak Concentrations =			26.7			

Data File: /chem/eod2a.i/123109.b/036b3601.d
 Date: 31-DEC-2009 14:05
 Client ID: RE12-10-7296HSD
 Sample Info: 11202006789111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod2a.i
 Operator: JRC
 Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD2

DATE: 12/14/2009

METHOD: ECD2-F-8082-111209A.m

OPERATOR: YS1

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: DA385
ALUMINA LOT: 1230997-A
COPPER LOT: 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography

Sequence Number: Injection Volume: 1.0 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 IB	YS1	14-DEC-2009 07:00		121409	1.01	ICLEAN	
002f0201.d	WAR091211-60 01	YS1	14-DEC-2009 07:11		121409	1.01	IDUSE RE-I-CAL	
003f0301.d	WAR091102-54	YS1	14-DEC-2009 07:22		121409	1.01	PASSED ON BOTH COLUMNS	
004f0401.d	WAR091102-42	YS1	14-DEC-2009 07:33		121409	1.01	PASSED ON BOTH COLUMNS	
005f0501.d	WAR091027-48	YS1	14-DEC-2009 07:44		121409	1.01	PASSED ON BOTH COLUMNS	
006f0601.d	WAR090930-32	YS1	14-DEC-2009 07:55		121409	1.01	PATTERN ONLY	
007f0701.d	WAR091111-21	YS1	14-DEC-2009 08:07		121409	1.01	PATTERN ONLY	
008f0801.d	AR1660-4	YS1	14-DEC-2009 08:18		121409	1.01	IDUSE SCREEN	
009f0901.d	WAR091111-62	YS1	14-DEC-2009 08:29		121409	1.01	PATTERN ONLY	
010f1001.d	WAR091106-68	YS1	14-DEC-2009 08:40		121409	1.01	PATTERN ONLY	
011f1101.d	WAR091214-01 60	YS1	14-DEC-2009 08:51		121409	1.01	AR1660 I-CAL LEVEL 1	
012f1201.d	WAR091214-02 60	YS1	14-DEC-2009 09:02		121409	1.01	AR1660 I-CAL LEVEL 2	
013f1301.d	WAR091214-03 60	YS1	14-DEC-2009 09:13		121409	1.01	AR1660 I-CAL LEVEL 3	
014f1401.d	WAR091214-04 60	YS1	14-DEC-2009 09:24		121409	1.01	AR1660 I-CAL LEVEL 4	
015f1501.d	AR16601102-01	YS1	14-DEC-2009 09:35		121409	1.01	AR1660 I-CAL LEVEL 5	

Instrument Batch: /chem/ecd2a.i/121409.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR091211-60 01	YS1	14-DEC-2009 09:46		121409	1.01	PASSED ON BOTH COLUMNS	

017f1701.d	WAR091020-DDT	YS1	14-DEC-2009 09:58	1	121409	1.01	DDT ANALOG STANDARD
018f1801.d	WAR091130-99 02	YS1	14-DEC-2009 10:09	SOLV	121409	1.01B	CLEAN
019f1901.d	1201992205	YS1	14-DEC-2009 10:20	931371	241934	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
020f2001.d	1201992206	YS1	14-DEC-2009 10:31	931371	241934	1.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
021f2101.d	241934001	YS1	14-DEC-2009 10:42	931371	241934	10.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
022f2201.d	1201992207	YS1	14-DEC-2009 10:53	931371	241934	10.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
023f2301.d	1201992208	YS1	14-DEC-2009 11:04	931371	241934	10.01QC A	UPLOAD BOTH COLUMNS, USE HIGHER
024f2401.d	241934002	YS1	14-DEC-2009 11:15	931371	241934	1.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
025f2501.d	241934003	YS1	14-DEC-2009 11:26	931371	241934	1.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
026f2601.d	241934004	YS1	14-DEC-2009 11:37	931371	241934	10.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
027f2701.d	241934005	YS1	14-DEC-2009 11:48	931371	241934	1.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	241934006	YS1	14-DEC-2009 11:59	931371	241934	20.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
029f2901.d	WAR091211-60 02	YS1	14-DEC-2009 12:11	1660	121409	1.01CVS	PASSED ON BOTH COLUMNS
030f3001.d	WAR091130-99 03	YS1	14-DEC-2009 12:22	SOLV	121409	1.01B	CLEAN
031f3101.d	241934007	YS1	14-DEC-2009 12:33	931371	241934	1.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
032f3201.d	241934008	YS1	14-DEC-2009 12:44	931371	241934	10.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
033f3301.d	241934009	YS1	14-DEC-2009 13:00	931371	241934	1.01NREA	DUSE RRSX AFTER MORE SULFUR CLEANED
034f3401.d	241934010	YS1	14-DEC-2009 13:11	931371	241934	10.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER
035f3501.d	241934011	YS1	14-DEC-2009 13:27	931371	241934	5.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd2a.i/121409.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	241935001	YS1	14-DEC-2009 13:43	931371	241935	1.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
037f3701.d	241935004	YS1	14-DEC-2009 13:54	931371	241935	5.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
038f3801.d	241935005	YS1	14-DEC-2009 14:05	931371	241935	5.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
039f3901.d	241935006	YS1	14-DEC-2009 14:21	931371	241935	50.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
040f4001.d	241935007	YS1	14-DEC-2009 14:36	931371	241935	5.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
041f4101.d	WAR091211-60 03	YS1	14-DEC-2009 14:52		121409	1.01	PASSED ON BOTH COLUMNS	

1042f4201.d	14-DEC-2009 15:03	1.041B	CLEAN	
1043f4301.d	14-DEC-2009 15:14	5.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
1044f4401.d	14-DEC-2009 15:30	20000.01NREA	UPLOAD BOTH COLUMNS, USE HIGHER	
1045f4501.d	14-DEC-2009 15:45	1.01	PASSED ON BOTH COLUMNS	

Instrument Batch: /chem/ecd2a.i/121409.b

Page: 3

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD2

DATE: 12/30/2009

METHOD: ECD2-F-8082-111209A.m

OPERATOR: JAOC

REVIEWED BY: _____

DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

SOLVENT LOT: DA385
ALUMINA LOT: 1230997-A
COPPER LOT: 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standards Log

Initial Calibration Std ID's: See Calibration History and Standards Log

GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Injection Volume: 1.0 uL
Sequence Number: 122909

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 IB	JAOC	129-DEC-2009 07:15		122909	1.0	CLEAN	
002f0201.d	WAR091211-60 01	JAOC	129-DEC-2009 07:26		122909	1.0	PASSES BOTH COLUMNS	
003f0301.d	WAR091216-54	JAOC	129-DEC-2009 07:37		122909	1.0	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	129-DEC-2009 07:48		122909	1.0	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	129-DEC-2009 07:59		122909	1.0	PASSES BOTH COLUMNS	
006f0601.d	WAR090930-32	JAOC	129-DEC-2009 08:17		122909	1.0	PATTERN ONLY	
007f0701.d	WAR091111-21	JAOC	129-DEC-2009 08:28		122909	1.0	PATTERN ONLY	
008f0801.d	WAR091111-62	JAOC	129-DEC-2009 08:39		122909	1.0	PATTERN ONLY	
009f0901.d	WAR091106-68	JAOC	129-DEC-2009 08:50		122909	1.0	PATTERN ONLY	
010f1001.d	WAR091219-DDT	JAOC	129-DEC-2009 09:01		122909	1.0	DDT	
011f1101.d	WAR091130-99 02	JAOC	129-DEC-2009 09:13		122909	1.0	CLEAN	
012f1201.d	1202005226	JAOC	129-DEC-2009 09:27	937093	110-1036	1.0	QC A	UPLOAD BOTH, USE HIGHER
013f1301.d	1202005227	JAOC	129-DEC-2009 09:38	937093	110-1036	1.0	QC A	UPLOAD BOTH, USE HIGHER
014f1401.d	1243457003	JAOC	129-DEC-2009 09:49	937093	110-1038	1.0	LANL	UPLOAD BOTH, USE HIGHER
015f1501.d	1243457004	JAOC	129-DEC-2009 10:00	937093	110-1038	1.0	LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/122909.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	1243472001	JAOC	129-DEC-2009 10:11	937093	110-1057	1.0	LANL	UPLOAD BOTH, USE HIGHER

017f1701.d	243472002	JAO	29-DEC-2009 10:22	937093	10-1057	1.0 LANL	UPLOAD BOTH, USE HIGHER
018f1801.d	243472003	JAO	29-DEC-2009 10:33	937093	10-1057	1.0 LANL	UPLOAD BOTH, USE HIGHER
019f1901.d	243490001	JAO	29-DEC-2009 10:44	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
020f2001.d	243490002	JAO	29-DEC-2009 10:55	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
021f2101.d	243490003	JAO	29-DEC-2009 11:06	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
022f2201.d	WAR091211-60 02	JAO	29-DEC-2009 11:17		122909	1.0	PASSES BOTH COLUMNS
023f2301.d	WAR091130-99 03	JAO	29-DEC-2009 11:28		122909	1.0	CLEAN
024f2401.d	243490004	JAO	29-DEC-2009 11:40	937093	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
025f2501.d	243517007	JAO	29-DEC-2009 11:51	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
026f2601.d	243517008	JAO	29-DEC-2009 12:02	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
027f2701.d	243517009	JAO	29-DEC-2009 12:13	937093	10-1073	1.0 LANL	UPLOAD BOTH, USE HIGHER
028f2801.d	243519001	JAO	29-DEC-2009 12:24	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
029f2901.d	243519002	JAO	29-DEC-2009 12:35	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
030f3001.d	243519003	JAO	29-DEC-2009 12:46	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
031f3101.d	243519004	JAO	29-DEC-2009 12:57	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
032f3201.d	243519005	JAO	29-DEC-2009 13:08	937093	10-1074	1.0 LANL	UPLOAD BOTH, USE HIGHER
033f3301.d	WAR091211-60 03	JAO	29-DEC-2009 13:19		122909	1.0	PASSES BOTH COLUMNS
034f3401.d	WAR091130-99 04	JAO	29-DEC-2009 13:30		122909	1.0	CLEAN
035f3501.d	243547002	JAO	29-DEC-2009 13:42	937093	10-1084	1.0 LANL	UPLOAD BOTH, USE HIGHER
Instrument Batch: /chem/ecd2a.i/122909.b							
036f3601.d	1202005228	JAO	29-DEC-2009 13:53	937093	10-1084	1.0 QC A	UPLOAD BOTH, USE HIGHER
037f3701.d	1202005229	JAO	29-DEC-2009 14:04	937093	10-1084	1.0 QC A	UPLOAD BOTH, USE HIGHER
038f3801.d	243547003	JAO	29-DEC-2009 14:15	937093	10-1084	1.0 LANL	UPLOAD BOTH, USE HIGHER
039f3901.d	WAR091211-60 04	JAO	29-DEC-2009 14:26		122909	1.0	PASSES BOTH COLUMNS
040f4001.d	WAR091130-99 05	JAO	29-DEC-2009 14:37		122909	1.0	CLEAN

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GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD2

DATE: 01/04/2010 METHOD: ECD2-F-8082-111209A.m OPERATOR: JAOC REVIEWED BY: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT: DA385
ALUMINA LOT: 1230997-A
COPPER LOT: 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: 123109 Injection Volume: 1.0 uL

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	1WAR091130-99 IB	JAOC	31-DEC-2009 07:31		123109	1.0	CLEAN	
1002f0201.d	1WAR091211-60 01	JAOC	31-DEC-2009 07:42		123109	1.0	DUSE	
1003f0301.d	1WAR091216-54	JAOC	31-DEC-2009 07:53		123109	1.0	PASSES BOTH COLUMNS	
1004f0401.d	1WAR091217-42	JAOC	31-DEC-2009 08:04		123109	1.0	PASSES BOTH COLUMNS	
1005f0501.d	1WAR091217-48	JAOC	31-DEC-2009 08:15		123109	1.0	PASSES BOTH COLUMNS	
1006f0601.d	1WAR091231-60 01	JAOC	31-DEC-2009 08:26		123109	1.0	PASSES BOTH COLUMNS	
1007f0701.d	1WAR090930-32	JAOC	31-DEC-2009 08:38		123109	1.0	PATTERN ONLY	
1008f0801.d	1WAR091111-21	JAOC	31-DEC-2009 08:49		123109	1.0	PATTERN ONLY	
1009f0901.d	1WAR091111-62	JAOC	31-DEC-2009 09:00		123109	1.0	PATTERN ONLY	
1010f1001.d	1WAR091106-68	JAOC	31-DEC-2009 09:11		123109	1.0	PATTERN ONLY	
1011f1101.d	1WAR091219-ODT	JAOC	31-DEC-2009 09:22		123109	1.0	DDT	
1012f1201.d	1WAR091130-99 02	JAOC	31-DEC-2009 09:39		123109	1.0	CLEAN	
1013f1301.d	1202006551	JAOC	31-DEC-2009 09:50	937679	10-1090-1	1.0	QC A	UPLOAD BOTH, USE HIGHER
1014f1401.d	1202006552	JAOC	31-DEC-2009 10:01	937679	10-1090-1	1.0	QC A	UPLOAD BOTH, USE HIGHER
1015f1501.d	1243596002	JAOC	31-DEC-2009 10:12	937679	10-1090-1	5.0	LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/123109.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1243596003	JAOC	31-DEC-2009 10:23	937679	10-1090-1	5.0	LANL	UPLOAD BOTH, USE HIGHER

1017f1701.d	1243596004	JAOC	31-DEC-2009	10:34	937679	10-1090-1	5.0 LANL	UPLOAD BOTH, USE HIGHER
1018f1801.d	1243596005	JAOC	31-DEC-2009	10:45	937679	10-1090-1	1.0 LANL	UPLOAD BOTH, USE HIGHER
1019f1901.d	1243596006	JAOC	31-DEC-2009	10:57	937679	10-1090-1	1.0 LANL	UPLOAD BOTH, USE HIGHER
1020f2001.d	1243596007	JAOC	31-DEC-2009	11:08	937679	10-1090-1	1.0	PASSES BOTH COLUMNS
1021f2101.d	1243596008	JAOC	31-DEC-2009	11:19	937679	10-1090-1	1.0	CLEAN
1022f2201.d	1243624001	JAOC	31-DEC-2009	11:30	937679	10-1100	5.0 LANL	UPLOAD BOTH, USE HIGHER
1023f2301.d	1243624002	JAOC	31-DEC-2009	11:41	937679	10-1100	10.0 LANL	UPLOAD BOTH, USE HIGHER
1024f2401.d	1243624003	JAOC	31-DEC-2009	11:52	937679	10-1100	1.0 LANL	UPLOAD BOTH, USE HIGHER
1025f2501.d	1243624004	JAOC	31-DEC-2009	12:03	937679	10-1100	1.0 LANL	UPLOAD BOTH, USE HIGHER
1026f2601.d	1243630002	JAOC	31-DEC-2009	12:14	937679	10-1102	10.0 LANL	UPLOAD BOTH, USE HIGHER
1027f2701.d	1202006553	JAOC	31-DEC-2009	12:25	937679	10-1102	10.0 QC A	UPLOAD BOTH, USE HIGHER
1028f2801.d	1202006554	JAOC	31-DEC-2009	12:36	937679	10-1102	10.0 QC A	UPLOAD BOTH, USE HIGHER
1029f2901.d	1243630003	JAOC	31-DEC-2009	12:47	937679	10-1102	1.0 LANL	UPLOAD BOTH, USE HIGHER
1030f3001.d	1243630004	JAOC	31-DEC-2009	12:58	937679	10-1102	1.0	PASSES BOTH COLUMNS
1031f3101.d	1243630005	JAOC	31-DEC-2009	13:10	937679	10-1102	1.0	CLEAN
1032f3201.d	1202006786	JAOC	31-DEC-2009	13:21	937791	10-1036	1.0 QC A	UPLOAD BOTH, USE HIGHER
1033f3301.d	1202006787	JAOC	31-DEC-2009	13:32	937791	10-1036	1.0 QC A	UPLOAD BOTH, USE HIGHER
1034f3401.d	1243490007	JAOC	31-DEC-2009	13:43	937791	10-1036	1.0 LANL	UPLOAD BOTH, USE HIGHER
1035f3501.d	1202006788	JAOC	31-DEC-2009	13:54	937791	10-1036	1.0 QC A	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd2a.i/123109.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1036f3601.d	1202006789	JAOC	31-DEC-2009 14:05	937791	10-1036	1.0 QC A	UPLOAD BOTH, USE HIGHER	
1037f3701.d	1202006790	JAOC	31-DEC-2009 14:16	937791	10-1036	1.0	PASSES BOTH COLUMNS	
1038f3801.d	1202006791	JAOC	31-DEC-2009 14:27	937791	10-1036	1.0	CLEAN	

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/036b3601.d
 Lab Smp Id: 1202005228 Client Smp ID: WST54-10-9921MS
 Inj Date : 29-DEC-2009 13:53
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005228|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 36 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1084.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	11.09100	% Moisture

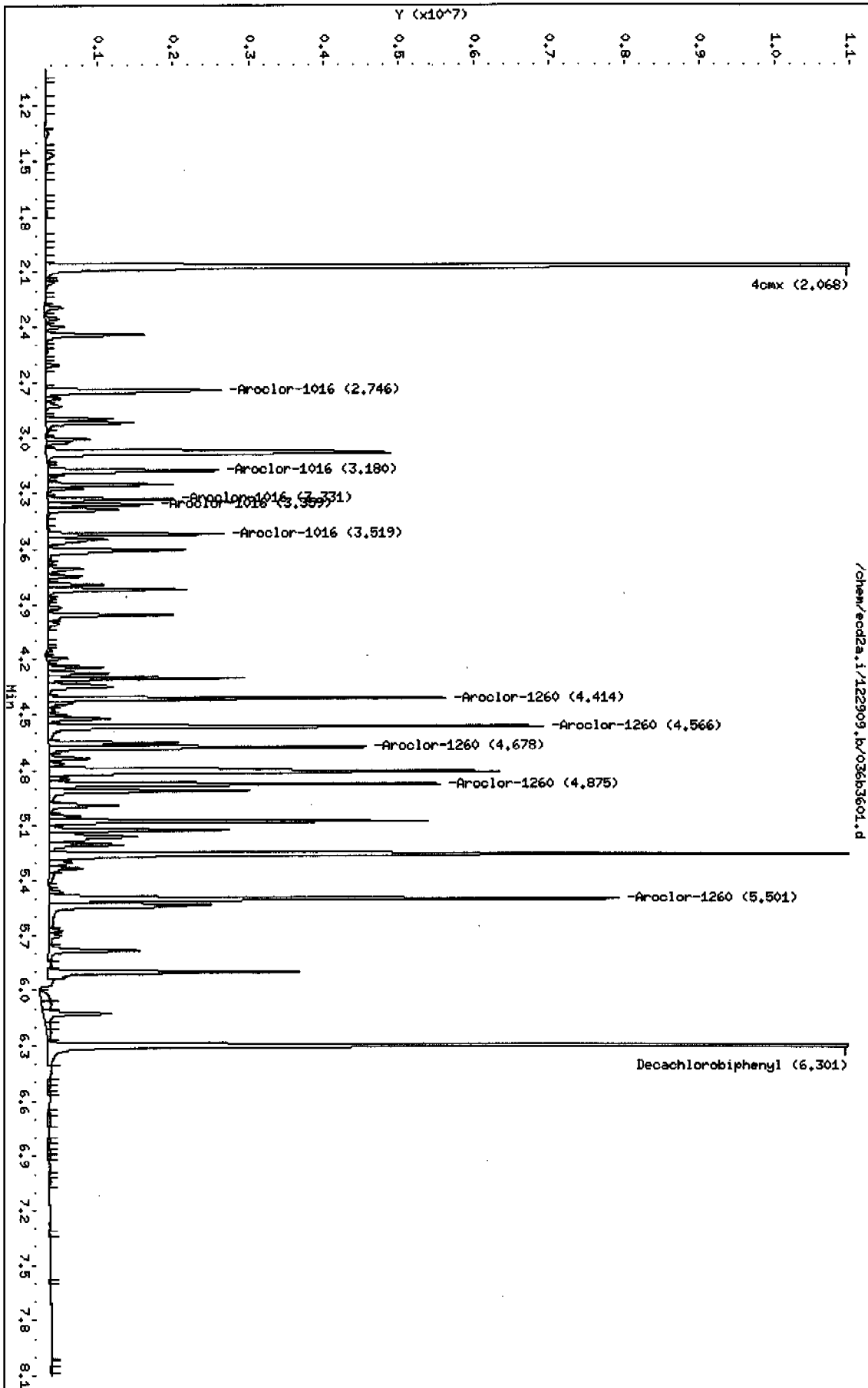
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
---	-----	-----	RESPONSE (ug/L)	(ug/Kg)	-----	-----
CAS #: 877-09-8						
2.068	2.068	0.000	17126572	132.438	4.9 80.00- 120.00	100.00
CAS #: 2051-24-3						
6.301	6.300	0.001	17171358	152.251	5.7 80.00- 120.00	100.00
CAS #: 12674-11-2						
2.746	2.745	0.001	2830727	623.808	23.3 80.00- 120.00	100.00
3.180	3.179	0.001	2217386	615.570	23.0 58.34- 98.34	78.33
3.331	3.330	0.001	1337551	651.438	24.3 24.56- 64.56	47.25
3.359	3.359	0.000	1208015	565.261	21.1 26.71- 66.71	42.68
3.519	3.518	0.001	1875453	653.350	24.4 43.42- 83.42	66.25
Average of Peak Concentrations =				23.2		

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.414	4.414	0.000	4459338	773.261	28.8	80.00- 120.00 100.00
4.566	4.565	0.001	5860124	822.602	30.7	107.94- 147.94 131.41
4.678	4.677	0.001	3877434	804.663	30.0	67.11- 107.11 86.95
4.875	4.874	0.001	4545278	807.080	30.1	80.57- 120.57 101.93
5.501	5.500	0.001	7616995	842.820	31.4	146.62- 186.62 170.81
Average of Peak Concentrations =			30.2			

Data File: /chem/eecd2a.i/122909.b/036b3601.d
Date: 29-DEC-2009 13:53
Client ID: MST54-10-9921MS
Sample Info: 11202005228111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eecd2a.i
Operator: JADG
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/036f3601.d
 Lab Smp Id: 1202005228 Client Smp ID: WST54-10-9921MS
 Inj Date : 29-DEC-2009 13:53
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005228|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m
 Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012f1201.d
 Als bottle: 36 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1084.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	11.09100	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
---	-----	-----	RESPONSE (ug/L)	(ug/Kg)	-----	=====
CAS #: 877-09-8						
11 4cmx	1.771	1.771	0.000	7821503 125.563	4.7 80.00- 120.00	100.00
CAS #: 2051-24-3						
12 Decachlorobiphenyl	5.609	5.607	0.002	7461180 137.885	5.1 80.00- 120.00	100.00
CAS #: 12674-11-2						
1 Aroclor-1016	2.274	2.273	0.001	1358669 607.175	22.6 80.00- 120.00	100.00(M)
	2.598	2.597	0.001	2913922 621.933	23.2 191.82- 231.82	214.47
	2.688	2.688	0.000	1173723 617.268	23.0 64.77- 104.77	86.39
	2.824	2.823	0.001	604102 618.971	23.1 22.45- 62.45	44.46
	2.976	2.974	0.002	793559 544.329	20.3 43.69- 83.69	58.41
Average of Peak Concentrations =				22.4		

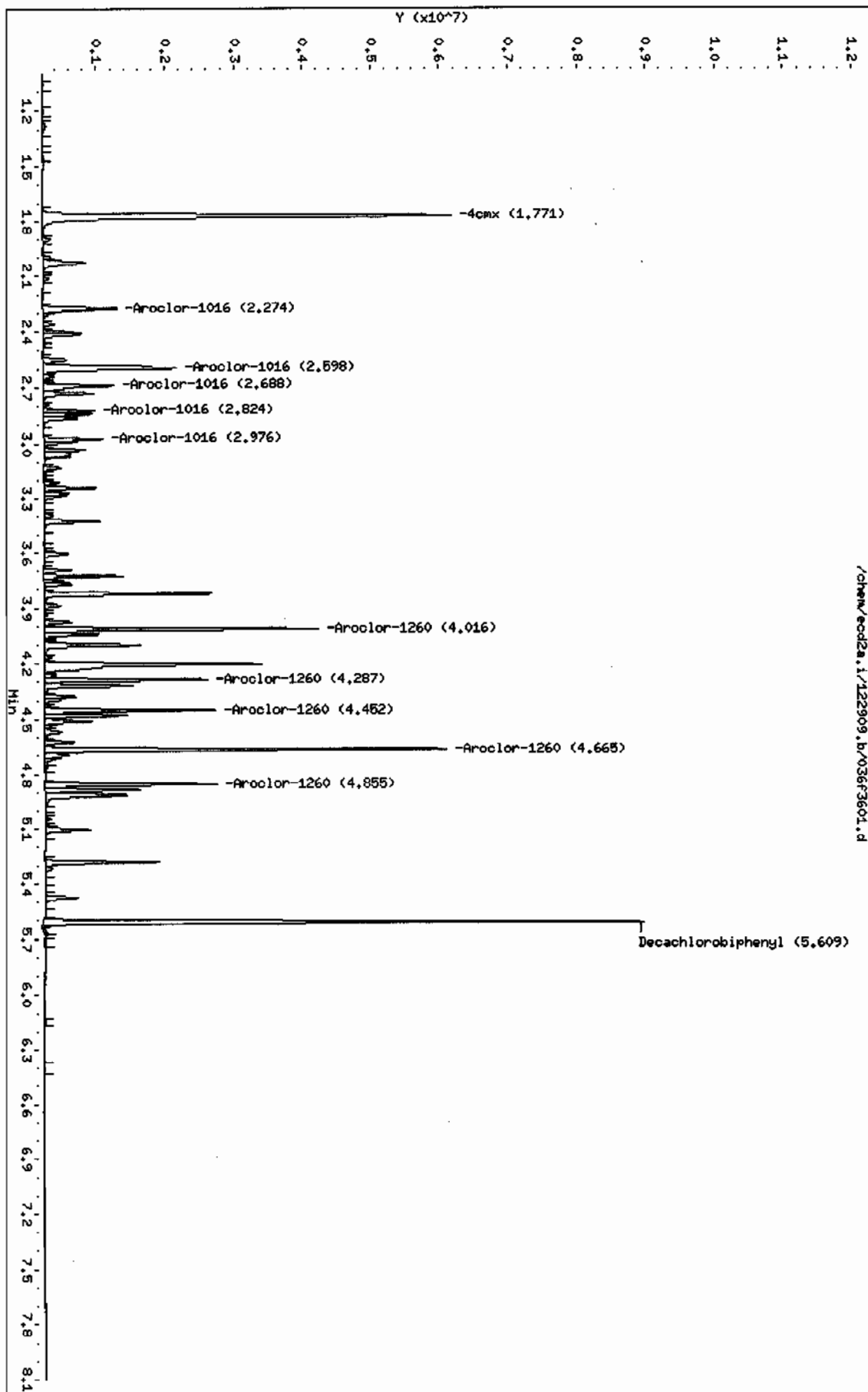
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.016	4.014	0.002	3324493	798.179	29.8	80.00-	120.00	100.00
4.287	4.286	0.001	2060507	795.387	29.7	42.92-	82.92	61.98
4.452	4.451	0.001	2108687	801.415	29.9	46.15-	86.15	63.43
4.665	4.664	0.001	5154171	846.668	31.6	132.63-	172.63	155.04
4.855	4.853	0.002	2180887	741.256	27.7	53.77-	93.77	65.60
Average of Peak Concentrations =					29.7			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecd2a.i/122909.b/036f3601.d
 Date: 29-DEC-2009 13:53
 Client ID: MST54-10-9921MS
 Sample Info: 1120200522811
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd2a.i
 Operator: JnOC
 Column diameter: 0.25



Data File: /chem/ecd2a.i/122909.b/037b3701.d
 Report Date: 31-Dec-2009 09:20

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/037b3701.d
 Lab Smp Id: 1202005229 Client Smp ID: WST54-10-9921MSD
 Inj Date : 29-DEC-2009 14:04
 Operator : JAOC Inst ID: ecd2a.i
 Smp Info : |1202005229|1|
 Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MSD|||
 Comment :
 Method : /chem/ecd2a.i/122909.b/ECD2-B-8082-111209A.m
 Meth Date : 29-Dec-2009 14:47 jen01212 Quant Type: ESTD
 Cal Date : 02-DEC-2009 07:50 Cal File: 012b1201.d
 Als bottle: 37 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1084.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	11.09100	% Moisture

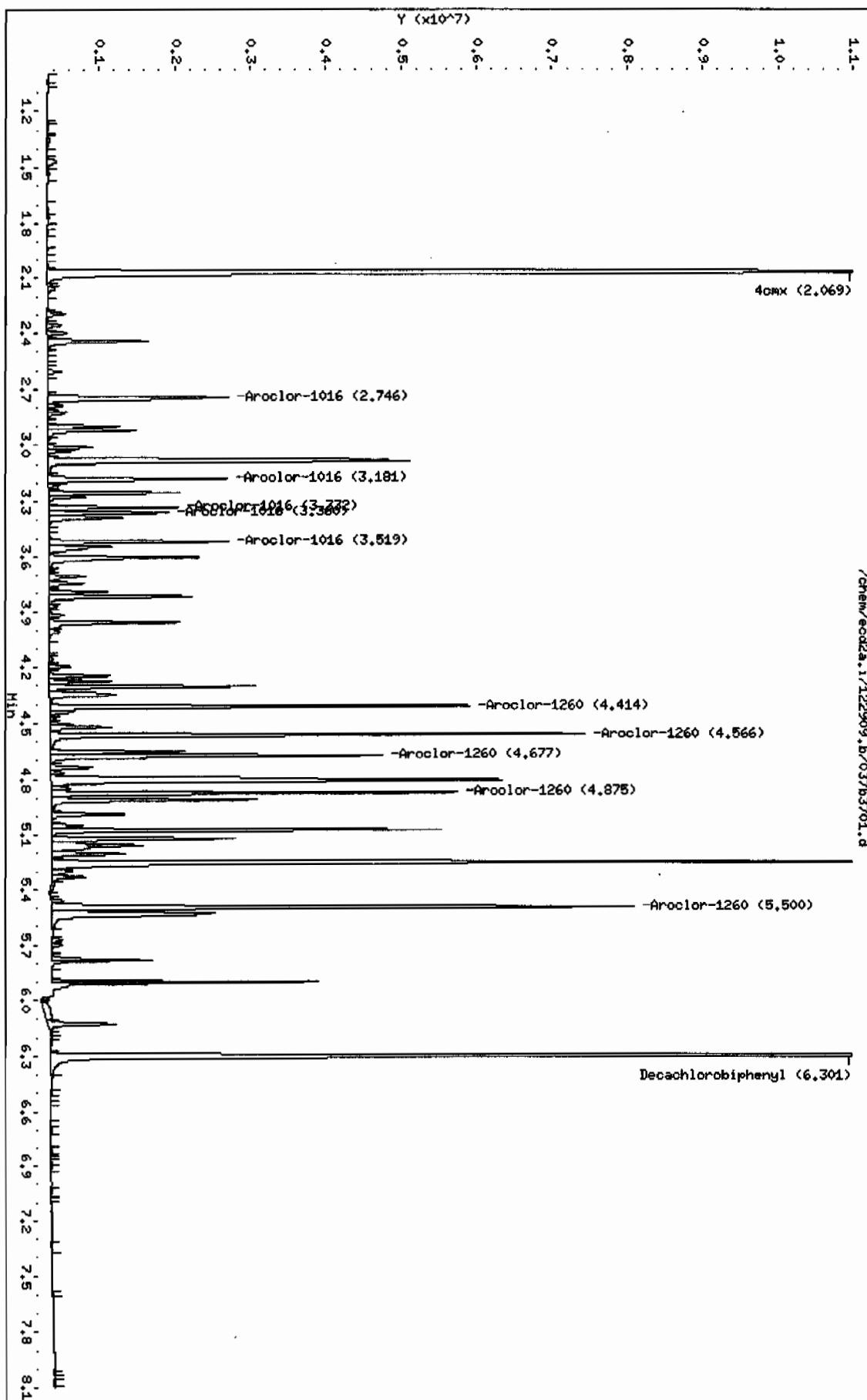
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
2.069	2.068	0.001	18247734	141.107	5.3 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.301	6.300	0.001	17814926	157.958	5.9 80.00- 120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2			
2.746	2.745	0.001	2912309	641.786	23.9 80.00- 120.00	100.00
3.181	3.179	0.002	2339521	649.476	24.2 58.34- 98.34	80.33
3.332	3.330	0.002	1388934	676.463	25.2 24.56- 64.56	47.69
3.360	3.359	0.001	1402698	656.359	24.5 26.71- 66.71	48.16
3.519	3.518	0.001	1933785	673.672	25.1 43.42- 83.42	66.40
Average of Peak Concentrations =			24.6			

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.414	4.414	0.000	4606360	798.755	29.8 80.00- 120.00	100.00
4.566	4.565	0.001	6012028	843.925	31.5 107.94- 147.94	130.52
4.677	4.677	0.000	3959627	821.720	30.6 67.11- 107.11	85.96
4.875	4.874	0.001	4649139	825.522	30.8 80.57- 120.57	100.93
5.500	5.500	0.000	7728487	855.157	31.9 146.62- 186.62	167.78
Average of Peak Concentrations =			30.9			

Data File: /chem/eod2a.i/122909.b/037b3701.d
Date : 29-DEC-2009 14:04
Client ID: MS154-10-9921MSD
Sample Info: 1120200522911
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd2a.i/122909.b/037f3701.d

Lab Smp Id: 1202005229

Client Smp ID: WST54-10-9921MSD

Inj Date : 29-DEC-2009 14:04

Operator : JAOC

Inst ID: ecd2a.i

Smp Info : |1202005229|1|

Misc Info : |ECD82P_1S|937093|SVA|QC A|SOIL|MSD|||

Comment :

Method : /chem/ecd2a.i/122909.b/ECD2-F-8082-111209A.m

Meth Date : 29-Dec-2009 14:49 jen01212 Quant Type: ESTD

Cal Date : 02-DEC-2009 07:50

Cal File: 012f1201.d

Als bottle: 37

QC Sample: MSD

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1084.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.17000	Weight of sample extracted (g)
M	11.09100	% Moisture

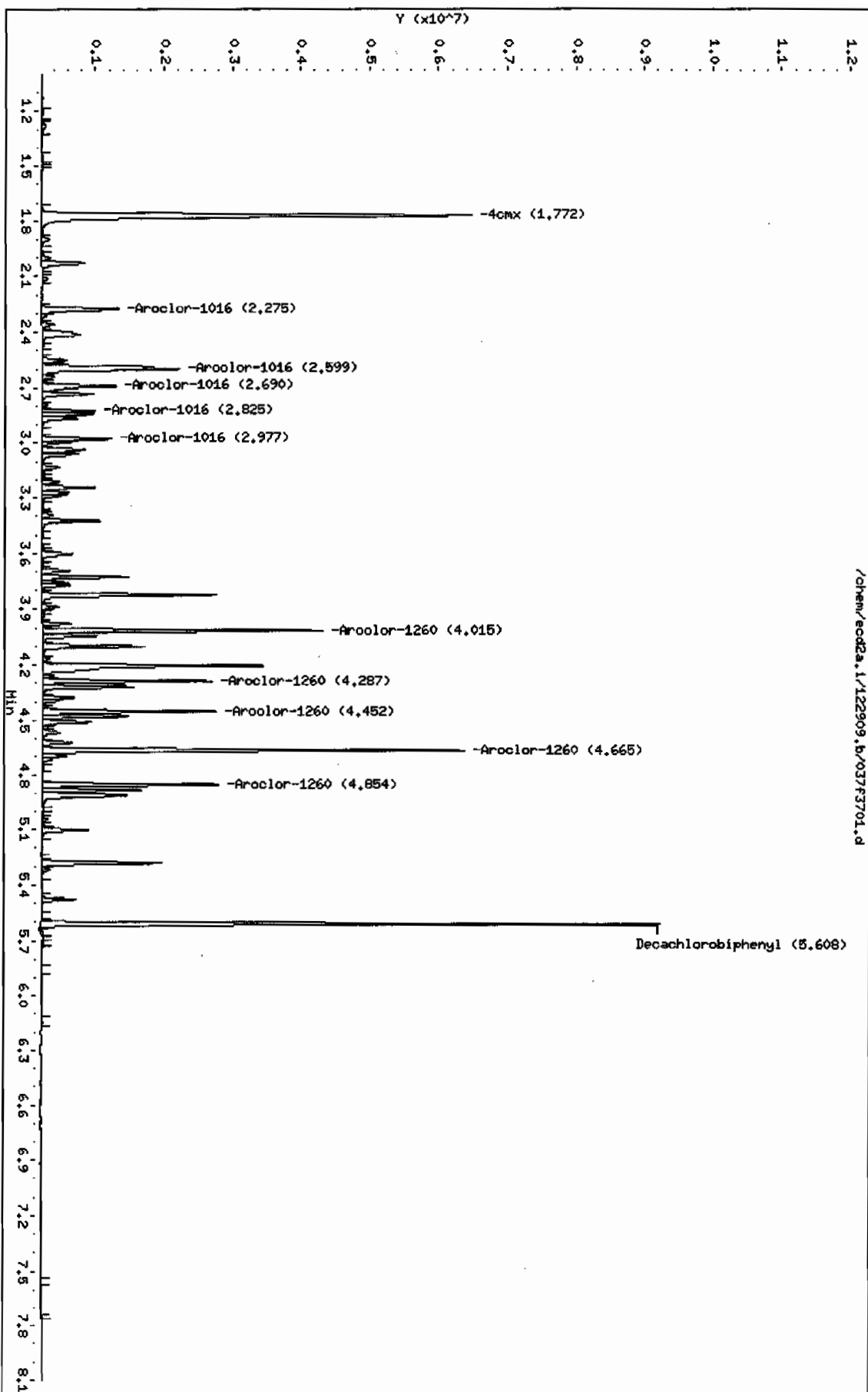
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
1.772	1.771	0.001	8299557	133.237	5.0 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.608	5.607	0.001	7807358	144.283	5.4 80.00- 120.00	100.00
CAS #: 12674-11-2						
1 Aroclor-1016						
2.275	2.273	0.002	1410986	630.555	23.5 80.00- 120.00	100.00
2.599	2.597	0.002	3065472	654.279	24.4 191.82- 231.82	217.26
2.690	2.688	0.002	1214242	638.577	23.8 64.77- 104.77	86.06
2.825	2.823	0.002	632311	647.874	24.2 22.45- 62.45	44.81
2.977	2.974	0.003	960167	658.611	24.6 43.69- 83.69	68.05
Average of Peak Concentrations =			24.1			

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260				CAS #: 11096-82-5			
4.015	4.014	0.001	3436575	825.089	30.8	80.00- 120.00	100.00
4.287	4.286	0.001	2150260	830.033	30.9	42.92- 82.92	62.57
4.452	4.451	0.001	2183682	829.917	30.9	46.15- 86.15	63.54
4.665	4.664	0.001	5313352	872.816	32.5	132.63- 172.63	154.61
4.854	4.853	0.001	2261311	768.591	28.6	53.77- 93.77	65.80
Average of Peak Concentrations =					30.7		

Data File: /chem/eod2a.i/122909.b/0373701.d
Date: 29-DEC-2009 14:04
Client ID: MSTB4-10-9924MSD
Sample Info: 1120200522911
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod2a.i
Operator: JROC
Column diameter: 0.25



Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 937092
 Analyst: Andrew Schweinin
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202005226 MB	28-DEC-2009 20:43:58	30	H2SO4/KM2	2	9	1	0.03333	
1202005227 LCS	28-DEC-2009 20:43:58	30	H2SO4/KM2	2	9	1	0.03333	
243457003	28-DEC-2009 20:43:58	30.02	H2SO4/KM2	2	9	1	0.03331	
243457004	28-DEC-2009 20:43:58	30.19	H2SO4/KM2	2	9	1	0.03312	
243472001	28-DEC-2009 20:43:58	30.02	H2SO4/KM2	2	9	1	0.03331	
243472002	28-DEC-2009 20:43:58	30.03	H2SO4/KM2	2	9	1	0.0333	
243472003	28-DEC-2009 20:43:58	30.12	H2SO4/KM2	2	9	1	0.0332	
243490001	28-DEC-2009 20:43:58	30.08	H2SO4/KM2	2	9	1	0.03324	
243490002	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	9	1	0.03318	
243490003	28-DEC-2009 20:43:58	30.05	H2SO4/KM2	2	9	1	0.03328	
243517007	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	9	1	0.03318	
243517008	28-DEC-2009 20:43:58	30.15	H2SO4/KM2	2	9	1	0.03317	
243517009	28-DEC-2009 20:43:58	30.01	H2SO4/KM2	2	9	1	0.03332	
243519001	28-DEC-2009 20:43:58	30.17	H2SO4/KM2	2	9	1	0.03315	
243519002	28-DEC-2009 20:43:58	30.19	H2SO4/KM2	2	9	1	0.03312	
243519003	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	9	1	0.03329	
243519004	28-DEC-2009 20:43:58	30.01	H2SO4/KM2	2	9	1	0.03332	
243519005	28-DEC-2009 20:43:58	30.11	H2SO4/KM2	2	9	1	0.03321	
243547002	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	9	1	0.03329	
1202005228 MS (243547002)	28-DEC-2009 20:43:58	30.14	H2SO4/KM2	2	9	1	0.03318	
1202005229 MSD (243547002)	28-DEC-2009 20:43:58	30.17	H2SO4/KM2	2	9	1	0.03315	
243547003	28-DEC-2009 20:43:58	30.04	H2SO4/KM2	2	9	1	0.03329	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202005227	PCB Laboratory Control	WFE091210-07	1	mL	Clean up Date: 12/28/09		
MS	1202005228	PCB Laboratory Control	WFE091210-07	1	mL	Clean up Initials: AJS		
MSD	1202005229	PCB Laboratory Control	WFE091210-07	1	mL	Verified By: AV		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE091130-15	1	mL	Final Solvent: Hexane		
REGNT	All	1:1 sulfuric acid	1133264a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	Acetone	1233927	150	mL			
REGNT	All	Hexane	1241300-B2	150	mL			
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL			
SOURC	All	SODIUM SULFATE	1242582	30	g			

Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 937789
 Analyst: Robin Hunt
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202006786 MB	31-DEC-2009 08:48:24	30	H2SO4/KMn	1	8	1	0.03333	
1202006787 LCS	31-DEC-2009 08:48:24	30	H2SO4/KMn	1	8	1	0.03333	
243490007	31-DEC-2009 08:48:24	30	H2SO4/KMn	1	8	1	0.03333	
1202006788 MS (243490007)	31-DEC-2009 08:48:24	30	H2SO4/KMn	1	8	1	0.03333	
1202006789 MSD (243490007)	31-DEC-2009 08:48:24	30.01	H2SO4/KMn	1	8	1	0.03332	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202006787	PCB Laboratory Control	WE091210-07	1	mL	Clean up Date: 12/31/2009		
MS	1202006788	PCB Laboratory Control	WE091210-07	1	mL	Clean up Initials: RWH		
MSD	1202006789	PCB Laboratory Control	WE091210-07	1	mL	Verified By: JAM		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UIE091130-15	1	mL	Final Solvent: Hexane		
REGNT	All	1:1 sulfuric acid	1133264a	5	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	Acetone	1233927	150	mL			
REGNT	All	Hexane	1241300-B2	150	mL			
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL			
SOURC	All	SODIUM SULFATE	1242582	30	g			