

Thursday, January 28, 2010

Page 1 of 2
REQUEST NUMBER: 10-1470

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.

LANL Request Number: 10-1470

2040 Savage Rd

Per Agreement Number: 126310011

Charleston, SC 29407

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/28/2010

TURNAROUND/REPORT DUE: 2/27/2010

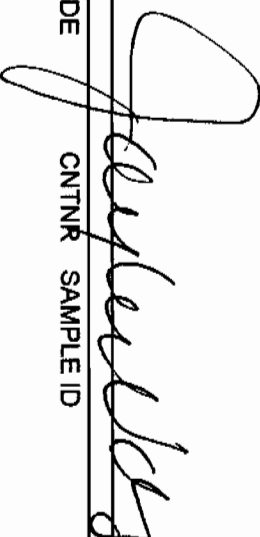
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082		1	RE15-10-7881	R	1/26/2010	
		1	RE15-10-7882	R	1/26/2010	
		1	RE15-10-7885	R	1/26/2010	
		1	RE15-10-7886	R	1/26/2010	
		1	RE15-10-7887	R	1/26/2010	
		1	RE15-10-7888	R	1/26/2010	
		1	RE15-10-7889	R	1/26/2010	
		1	RE15-10-7890	R	1/26/2010	
SW-846:8321A_MOD		1	RE15-10-7881	R	1/26/2010	

Thursday, January 28, 2010

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REQUEST NUMBER: 10-1470

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846.8321A_MOD						
1		1	RE15-10-7882	R	1/26/2010	
1		1	RE15-10-7885	R	1/26/2010	
1		1	RE15-10-7886	R	1/26/2010	
1		1	RE15-10-7887	R	1/26/2010	
1		1	RE15-10-7888	R	1/26/2010	
1		1	RE15-10-7889	R	1/26/2010	
1		1	RE15-10-7890	R	1/26/2010	
1		1	RE15-10-7941	R	1/26/2010	
1		1	RE15-10-7942	R	1/26/2010	
1		1	RE15-10-7943	R	1/26/2010	
1		1	RE15-10-7944	R	1/26/2010	
1		1	RE15-10-7945	R	1/26/2010	
1		1	RE15-10-7946	R	1/26/2010	
1		1	RE15-10-7947	R	1/26/2010	
1		1	RE15-10-7948	R	1/26/2010	
1		1	RE15-10-7949	R	1/26/2010	
1		1	RE15-10-7950	R	1/26/2010	
1		1	RE15-10-7951	R	1/26/2010	

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Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1470

LOS ALAMOS

REQUEST NUMBER: 10-1470

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7888	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7890	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7886	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7889	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7885	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7882	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7887	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7881	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7951	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7950	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7947	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7944	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7948	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7941	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7949	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7946	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7942	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7945	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7943	1	AMBER GLASS	NMED Explosives list	Ice	R

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

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

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

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7881

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA: OBT3		ALLH	
TIME COLLECTED (HH:MM)		0908		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610710	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	1 GAL POLY IL RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Light brown silty sand - frozen - few rocks + pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-40 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG.

Alpha \leq 5 dpm
Beta/Gamma \leq 1990 dpm

PID Ambient Reading 0.0
0.9 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) <i>Estevan Lujan</i> (Signature) <i>E Lujan</i>	Date/Time 1/27/10 09:18 AM	RECEIVED BY (Printed Name) <i>Sherrin Sherwood</i> (Signature) <i>Sherrin Sherwood</i>	Date/Time 1/27/10 0918
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7882

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA: QBT3		ok	
TIME COLLECTED (HH:MM)		0955		SUB-MEDIA: TUFF 1		↓	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610710		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		1.6		SCREEN/PORT DESC: NA			
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	TOTAL POLY 1L RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Grayish brown tuff
12m 1/26/10

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-40 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha 38 dpm
Beta/Gamma ≤ 2010 dpmPID Ambient 0.6 RS 01-26-10
Reading 3.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) [Signature]	Date/Time 1/27/10 09:17 AM	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) [Signature]	Date/Time 1/27/10 0917
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7885

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		A/H
TIME COLLECTED (HH:MM)		1128		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610712			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.4		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+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown frozen silty sand, pine cone, wire

SAMPLE COMMENTS: 7am 1/26/10

NA Pine cone and wire not placed in sample

LOCATION DESC:

8b-39 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 22 dpmBeta/Gamma \leq 2260 dpmPID $\frac{\text{Ambient Reading}}{2.6} = \frac{0.0}{2.6}$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:17 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7886

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA: OBT3		OK	
TIME COLLECTED (HH:MM)		1145		SUB-MEDIA: TUFF 1		↓	
PRS ID: 15-008(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610712		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		3.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		3.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-39 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpm
Beta/Gamma \leq 2130 dpm

PID $\frac{\text{Ambient Reading}}{3.5} = \frac{0.2}{3.5}$ ppm

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 9:18 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 9:38
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7887

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3	ALL H	RS 01-26-10
TIME COLLECTED (HH:MM)		1315		SUB-MEDIA:	TUFF 1	ALL H	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA	NA	
LOCATION ID:	15-610713	↓		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA	↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	0.6		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+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: reddish brown silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-63 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG

Alpha \leq 27 dpm
Beta/Gamma \leq 1534 dpm

PID Ambient 0.0
Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) T L McFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:22 AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature)	Date/Time 1/27/10 0922
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7888

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1426		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610713	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	3.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	4.0		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		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: pinkish grey tuff, some clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-63, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 33 dpm
Beta/Gamma ≤ 1928 dpm

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:21 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7889

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1548		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610714	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, frozen

SAMPLE COMMENTS:

wire in bowl, not put in sample jar

LOCATION DESC:

8b-36, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 33 dpm
Beta/Gamma \leq 3080 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.3}$ ppm

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Estevan Lujan	1/27/10	(Printed Name)	1/27/10
(Signature) [Signature]	0855 AM	(Signature) [Signature]	9:35
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7890

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		
TIME COLLECTED (HH:MM)		1603		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-008(b)			SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610714			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.5		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/> NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: pinkish grey tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-36, mesatop

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 60 dpm
Beta/Gamma \leq 2640 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.7} \text{ ppm}$

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 08:55 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 938
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7941

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		0833		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610740	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Frozen brown silty clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-64, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 22 dpm
Beta/Gamma \leq 1845 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} \cdot \frac{.5}{.8}$ ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:18 AM	RECEIVED BY (Printed Name) Sherri Newwood (Signature)	Date/Time 1/27/10 0918
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7942

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA: OBT3		ok	
TIME COLLECTED (HH:MM)		0845		SUB-MEDIA: TUFF 1		↓	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610740	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	3.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	12m 4.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO/NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray stuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-64 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 11 dpm

Beta/Gamma = 2130 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.1}{1.7}$ ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) <i>E Lujan</i>	Date/Time 1/27/10 09:18 AM	RECEIVED BY (Printed Name) Sherry Sherwood (Signature) <i>Sherry Sherwood</i>	Date/Time 1/27/10 0918
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7943

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		0909		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610741	↓		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	R		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray, Tuff
hit tuff at surface

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b- 42 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha = 16 dpm
Beta/Gamma = 2270 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.1}{0.1}$ ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

T. McFarland

R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 9:18 AM	RECEIVED BY (Printed Name) Sherri Newwood (Signature)	Date/Time 1/27/10 0918
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7944

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	OBT3		ok
TIME COLLECTED(HH:MM)		0934		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610741	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.9		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Grey tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-42, mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 27 dpm
Beta/Gamma = 2060 dpm

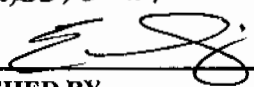

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

TLMcFarlane

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Esteven Lujan (Signature) 	Date/Time 1/27/10 9:19 AM	RECEIVED BY (Printed Name) (Signature) 	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7945

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1014		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610742			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.3		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Dark brown frozen silty sand, numerous rocks,
few pine needles

SAMPLE COMMENTS:

NA

FR RE15-10-8081

LOCATION DESC:

8b-41 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

HE POSITIVE

Alpha = 16 dpm

Beta/Gamma = 1783 dpm

PID Ambient 0.0
Reading 0.1 ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Esten Lugin (Signature)	Date/Time 1/27/10 09:21 AM	RECEIVED BY (Printed Name) Sherri Newwood (Signature)	Date/Time 1/27/10 0921
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7946

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1047		SUB-MEDIA:		TUFF.1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610742	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	2.5		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	3.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 LITER POLY IL RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray, Tuff

FD: RE15-10-8059 73m 1/26/10

SAMPLE COMMENTS:

Tuff at 2 ft

LOCATION DESC:

8b-41 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 16 dpm
Beta/Gamma = 2070 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.1}{8.3}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:20 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7947

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	QBT3		ALLH	
TIME COLLECTED (HH:MM)		1029	SUB-MEDIA:	TUFF 1		NA	
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA		ok	
LOCATION ID:	15-610743		FIELD QC TYPE:	NA			
LOCATION TYPE:	GENERIC		FIELD PREP:	NA			
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV			
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:			NA	
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA				
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sandy silt, rocks, some roots, pine needles

FD: RE15-10-8058

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-43 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

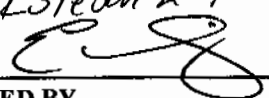
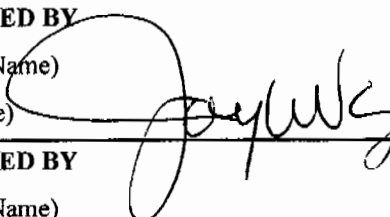
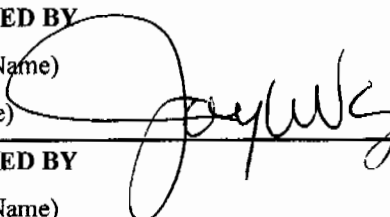
HE NEG

Alpha \leq 16 dpm
Beta/Gamma \leq 2300 dpmPID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.1}{1.5}$ ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) TLMcfarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature) 	Date/Time 1/27/10 09:20 pm	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 1/27/10 938
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7948

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1050		SUB-MEDIA:		TUFF 1	
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610743	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	3.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	3.9		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	TGAL POLY IL RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray tuff, some roots

SAMPLE COMMENTS:

Tuff at 3'4"

LOCATION DESC:

8b-43 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 11 dpm
Beta/Gamma = 2050 dpm

PID $\frac{\text{Ambient Reading}}{0.4} = 0.1$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) <i>Estevan Lujan</i> (Signature) <i>E Lujan</i>	Date/Time 1/27/10 09:20 AM	RECEIVED BY (Printed Name) <i>Sherri Sherwood</i> (Signature) <i>Sherri Sherwood</i>	Date/Time 1/27/10 0920
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7949

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	OBT3		ALLH
TIME COLLECTED (HH:MM)		12:43 1143		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610744			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1L 23 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: dark brown frozen silty sand

SAMPLE COMMENTS:

NA

LOCATION DESC: 8b-38 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

HE NEG

Alpha \leq 16 dpm
Beta/Gamma \leq 1700 dpm

PID Ambient Reading 0.6 ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) Estevan Lujan (Signature)	Date/Time 1/27/10 09:17 AM	RECEIVED BY (Printed Name) (Signature)	Date/Time 1/27/10 935
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7950

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1211		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610744			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	1.5		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.7		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	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+C N	1 GAL POLY 1 L RS 01-11-10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown clay, few tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-38 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 22 dpm
Beta/Gamma ≤ 1741 dpm

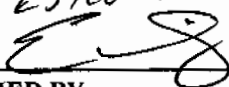

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.2}{0.3}$ ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

TL McFarland

RELINQUISHED BY (Printed Name) Estuan Lujan (Signature) 	Date/Time 1/27/10 09:21 AM	RECEIVED BY (Printed Name) Sherri Greenwood (Signature) 	Date/Time 1/27/10 0921
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499

EVENT NAME: 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7951

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/26/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1338		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(b)		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610745		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		0.5	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		R	EXCAVATED: YES/NO/NA	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	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	1 GAL POLY IL RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Gray, moist Tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8b-65 mesa Top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpm
Beta/Gamma \leq 2030 dpm

HE negative


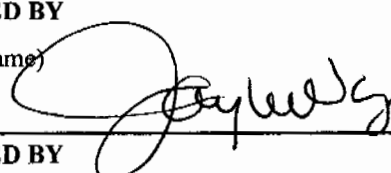
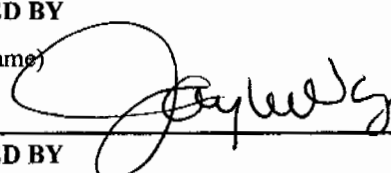
PID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) Estevan Lujon (Signature) 	Date/Time 1/27/10 09:17 AM	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 1/27/10 938
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE15-10-7890
" " 7889
" " 7956
" " 7953
" " 8060
" " 7954
" " 7955
" " 7952
" " 7951
" " 7949

RE15-10-7886
" " 7885
" " 7882
" " 7881
" " 7941
" " 7942
" " 7943
" " 7944
" " 8059
" " 7946
" " 7945

RE15-10-7948
" " 7947
" " 8058
" " 7950

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

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

RE15-10-8082
RE15-10-8081

Reason: *Field Release*

.....
Print Last Name Lujan

Signature



Date

1/27/10



133 State Road 4, White Rock, NM 87544

505-872-2770 FAX 505-872-9534

ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7881

ARS Sample ID: ARS2-10-00025-001

Sample Collection Date: 01/26/10 09:08

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPII	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	10.80	19.79	36.09	19.83		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	41.40	15.01	17.69	15.85		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.09	0.80	0.09	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	16.84	6.63	1.47	6.65		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	0.61	0.10	0.61		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.15	0.16	0.07	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.69	0.32	0.06	0.32		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.71	0.40	0.11	0.40		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.31	0.49	0.17	0.49		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
BA-133	1.25	0.64	0.26	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.18	1.04	0.37	1.05		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	6.81	3.33	1.23	3.67		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.53	0.41	0.14	0.41		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
NOTES: % Moisture: 4.28										

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 505-672-9834

ARS Sample Delivery Group: AKS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7882

ARS Sample ID:

AKS2-10-00025-002

Sample Collection Date: 01/26/10 09:55

Date Received:

01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date:

01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 1 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	20.74	22.37	31.78	22.51		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	24.54	13.50	18.25	13.83		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	29.87	11.33	2.43	11.37		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	15.90	0.16	15.90		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.34	0.23	0.12	0.23		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.29	0.27	0.10	0.27		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.25	0.38	0.22	0.38		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	2.17	0.81	0.21	0.82		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.77	0.94	0.42	0.95		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	0.60	0.88	0.28	0.88		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	5.43	4.41	1.90	4.55		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.49	0.46	0.18	0.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.35

Matthew J. Eden
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

909-672-4770 FAX 909-672-9334

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7885

ARS Sample ID: ARS2-10-00026-001

Sample Collection Date: 01/26/10 11:28

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:02

Analysis Description	Analysis Results	Analysis Error +/- %	MDL	YPM	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	50.37	33.86	36.09	34.41		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	59.79	17.49	17.69	18.96		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
MA-22	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	14.79	3.82	1.29	3.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	8.44	0.09	8.44		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.01	0.02	0.06	0.02		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.90	0.34	0.05	0.34		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.09	44.62	0.10	44.62		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.92	0.44	0.18	0.44		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	1.06	0.60	0.23	0.61		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	0.05	75.28	0.17	75.28		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	14.39	5.28	1.62	6.19		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.30	0.36	0.15	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
NOTES: % Moisture: 3.64										

[Signature]
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NELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7886

ARS Sample ID: AR52-10-00026-002

Sample Collection Date: 01/26/10 11:45

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	mnc	TPH	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	43.80	30.16	31.78	30.63		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	35.55	19.20	18.25	19.81		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	32.04	11.03	2.17	11.07		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	14.20	0.14	14.20		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.01	0.04	0.08	0.04		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.41	0.47	0.17	0.47		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.63	0.67	0.24	0.68		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	-0.16	221.19	0.50	221.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	79.84	0.22	79.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	1.90	3.23	1.98	3.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.11	0.27	0.13	0.27		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.72

[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: ARS2-10-00025

Request or PQ Number:

Client Sample ID: RE15-10-7887

ARS Sample ID: ARS2-10-00025-003

Sample Collection Date: 01/26/10 13:15

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	47.69	31.63	30.56	22.05		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	44.45	27.21	19.68	18.05		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	17.74	6.61	1.40	6.63		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	9.14	0.09	9.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.33	0.17	0.07	0.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.06	0.10	0.06	0.10		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.27	0.34	0.23	0.34		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.15	0.43	0.13	0.43		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.08	0.61	0.29	0.61		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	0.86	0.63	0.17	0.63		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	1.44	2.42	1.13	2.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.02	0.09	0.06	0.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.57

Matthew J. Eden
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9834

ARS Sample Delivery Group: ARS2-10-00025

Client Sample ID: RE15-10-7888

Sample Collection Date: 01/26/10 14:26

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00025-004

Date Received: 01/27/10 00:00

Report Date: 01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	Mn*	Totl	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	10.53	20.55	38.20	20.59		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	48.05	16.12	18.71	17.16		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	25.36	8.60	1.67	8.63		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	10.94	0.11	10.94		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.24	0.21	0.08	0.22		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.07	0.12	0.07	0.12		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.69	0.46	0.13	0.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.63	0.61	0.20	0.62		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.57	0.99	0.29	0.99		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.34	1.28	0.30	1.28		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	5.81	4.38	1.59	4.88		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.40	0.31	0.11	0.31		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.76

Matthew J. Edm
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87844

505-672-2770 FAX 505-672-9334

ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7889

ARS Sample ID: ARS2-10-00026-003

Sample Collection Date: 01/26/10 15:48

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tester/Chem Recovery
GROSS ALPHA	42.85	30.06	30.56	30.52		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	107.24	22.75	19.68	26.26		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	19.69	6.59	1.26	6.61		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.05	0.10	0.08	0.10		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.18	0.16	0.05	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.25	0.35	0.15	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.62	0.33	0.09	0.33		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.52	0.65	0.22	0.65		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.03	0.62	0.13	0.63		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	16.73	4.32	1.19	6.10		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.18	0.20	0.05	0.20		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 5.10

Matthew J. Edin
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PO Number:

Client Sample ID: RE15-10-7890

ARS Sample ID: ARS2-10-00026-004

Sample Collection Date: 01/26/10 16:03

Date Received: 01/27/10 06:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	47.28	32.73	38.20	33.23		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	44.91	18.44	18.71	17.34		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.08	0.15	0.12	0.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	23.26	8.99	1.96	9.01		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.02	0.05	0.13	0.05		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.05	0.09	0.09	0.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.09	0.14	0.08	0.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	13.32	0.15	13.32		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.04	0.55	0.22	0.55		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.11	0.90	0.34	0.91		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.01	0.72	0.20	0.73		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	8.91	3.99	1.42	4.47		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.33	0.41	0.16	0.41		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.99

Quality Assurance Review

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NELAP Certificate # E97558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7941

ARS Sample ID:

ARS2-10-00025-005

Sample Collection Date: 01/26/10 08:33

Date Received:

01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date:

01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDA	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	25.64	25.97	36.09	26.16		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	48.83	16.04	17.69	17.12		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	15.57	6.28	1.41	6.27		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	0.23	0.04	0.23		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.11	0.13	0.07	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.73	0.32	0.06	0.33		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
BU-152	0.25	0.28	0.11	0.28		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.93	0.33	0.08	0.35		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.05	0.51	0.27	0.51		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.92	1.09	0.31	1.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	7.27	3.27	1.20	3.67		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.34	0.29	0.11	0.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.46

Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7942

ARS Sample ID: ARS2-10-00025-006

Sample Collection Date: 01/26/10 08:45

Date Received: 01/27/10 08:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 08:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MOC	Yau	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	39.18	28.78	31.78	29.17		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	49.69	16.59	18.25	17.67		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.85	8.14	1.72	8.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	11.26	0.11	11.26		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	36.94	0.06	36.94		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.01	0.05	0.07	0.05		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	1.04	0.58	0.13	0.58		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.25	0.47	0.13	0.48		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	1.84	0.87	0.30	0.87		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.73	0.87	0.17	0.88		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	2.67	3.55	1.58	3.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.13	0.21	0.10	0.21		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.80

Matthew J. Edgar
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7943

ARS Sample ID: ARS2-10-00025-007

Sample Collection Date: 01/26/10 09:09

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MnC	PbI	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	33.20	26.91	30.56	27.22		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	34.00	19.00	19.00	18.42		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	0.13	10.71	5.46	10.71		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-60	0.00	12.83	0.13	12.83		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.10	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	16.79	0.08	16.79		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.24	0.30	0.15	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	2.25	0.63	0.11	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.61	1.10	0.34	1.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.01	1.04	0.36	1.04		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	1.46	3.12	1.48	3.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.01	0.11	0.10	0.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.51

Matthew J. Egan
Quality Assurance Review

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ARS Sample Delivery Group: AR52-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7944

ARS Sample ID: AR52-10-00025-008

Sample Collection Date: 01/26/10 09:34

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:33

Analyte Description	Analyte Results	Analyte Error +/- 2 s	Mn	Pb	Qual	Analyte Units	Analyte Test Method	Analyte Date/Time	Analyte Technician	Tracer/Chem Recovery
GROSS ALPHA	15.13	22.44	38.20	22.51		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	39.91	15.35	16.71	16.11		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
HA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	26.25	9.46	1.94	9.49		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	12.70	0.13	12.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.17	0.16	0.09	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.04	0.10	0.08	0.10		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.19	0.25	0.15	0.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.51	0.55	0.14	0.55		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	1.00	1.15	0.34	1.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	0.46	0.69	0.29	0.69		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	3.95	3.14	1.42	3.27		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.01	0.04	0.05	0.04		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.91

Matthew J. Eder
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7945

ARS Sample ID: ARS2-10-00025-009

Sample Collection Date: 01/26/10 10:14

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:33

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MOC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	70.11	39.03	36.09	39.98		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	88.28	20.23	17.69	22.94		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.08	0.16	0.13	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	14.40	7.46	2.08	7.47		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	13.50	0.14	13.50		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.07	0.38	0.09	0.38		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	14.13	0.16	14.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.10	0.59	0.24	0.60		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.94	1.17	0.96	1.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.62	1.25	0.33	1.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	8.04	5.00	1.67	5.41		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.02	0.14	0.08	0.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.84

Matthew L. Edley
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00025

Client Sample ID: RE15-10-7946

Sample Collection Date: 01/26/10 10:47

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00025-010

Date Received: 01/27/10 00:00

Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	YMU	Unit	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	48.39	31.80	31.78	32.05		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	68.71	18.52	18.25	20.34		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.77	9.78	2.42	9.80		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	15.84	0.16	15.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.15	0.20	0.12	0.20		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	20.73	0.10	20.73		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.63	0.57	0.18	0.57		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.04	0.50	0.13	0.50		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.34	1.15	0.42	1.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.84	1.08	0.25	1.08		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	4.03	4.80	1.98	4.89		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.62	0.53	0.19	0.53		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.70

Matthew A. Eder
Quality Assurance Review

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ARS Sample Delivery Group: ARS2-10-00025

Request or PO Number:

Client Sample ID: RE15-10-7947

ARS Sample ID: ARS2-10-00025-011

Sample Collection Date: 01/26/10 10:29

Date Received: 01/27/10 00:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 09:24

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDL	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	81.15	42.42	30.56	43.87		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	80.25	21.31	19.68	23.47		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	17.04	8.29	2.20	8.31		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	14.37	0.15	14.37		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.02	0.06	0.11	0.06		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.81	0.43	0.09	0.43		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.46	0.43	0.17	0.43		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.90	0.55	0.23	0.55		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.64	0.85	0.36	0.85		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	0.82	0.63	0.29	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	16.48	5.34	1.70	6.53		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.57	0.66	0.23	0.66		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.56

Quality Assurance Review

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NFIAP Certificate # EB7558



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ARS Sample Delivery Group: ARS2-10-00025

Client Sample ID: RE15-10-7948

Sample Collection Date: 01/26/10 10:50

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00025-012

Date Received: 01/27/10 00:00

Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MOC	YBU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	93.20	43.38	38.20	44.86		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	68.54	19.33	18.71	21.09		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	20.40	9.39	2.38	9.41		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	18.84	0.16	15.56		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CE-137	0.52	0.36	0.10	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.47	0.55	0.18	0.55		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.38	0.57	0.15	0.58		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.67	1.55	0.41	1.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.10	1.14	0.24	1.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	6.40	4.53	1.88	4.76		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.34	0.30	0.10	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.76

Matthew J. Eddy
Quality Assurance Review

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505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Client Sample ID: RE15-10-7949

Sample Collection Date: 01/26/10 11:43

Sample Matrix: Soil/Solid

Request or PU Number:

ARS Sample ID: ARS2-10-00026-005

Date Received: 01/27/10 00:00

Report Date: 01/28/10 12:07

Analysis Description	Analysis Result	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery
GROSS ALPHA	55.31	35.23	36.09	38.87		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	64.95	18.00	17.69	19.66		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	15.70	6.88	1.67	6.89		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	10.92	0.11	10.92		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.30	0.23	0.08	0.23		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.33	0.24	0.07	0.24		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.48	0.42	0.13	0.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.77	0.40	0.14	0.40		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	0.98	0.59	0.29	0.59		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.67	97.41	0.22	97.41		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	10.92	8.76	1.99	8.35		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.00	0.05	0.10	0.05		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 7.62

Matthew L Eden
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87644

808-672-2770 FAX 808-672-9834

ARS Sample Delivery Group: ARS2-10-00025
 Client Sample ID: RE15-10-7950
 Sample Collection Date: 01/26/10 12:11
 Sample Matrix: Soil/Solid

Request or PQ Number:
 ARS Sample ID: ARS2-10-00025-013
 Date Received: 01/27/10 08:00
 Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- %	MDC	YBU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	99.82	45.72	36.09	47.32		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	91.98	20.89	17.69	23.73		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.70	0.09	1.71	8.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.06	0.09	0.11	0.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.35	0.17	0.08	0.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.03	0.09	0.07	0.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	11.63	0.13	11.63		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.95	0.81	0.13	0.52		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.47	0.87	0.10	0.87		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.44	0.99	0.35	0.99		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	3.29	3.57	1.83	3.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.23	0.30	0.12	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.96

[Signature]
 Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # EB7558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Request or PU Number:

Client Sample ID: RE15-10-7951

ARS Sample ID: ARS2-10-00026-006

Sample Collection Date: 01/26/10 13:38

Date Received: 01/27/10 09:00

Sample Matrix: Soil/Solid

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	IPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	94.55	42.54	31.78	44.09		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	52.04	17.89	18.25	18.80		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.13	0.07	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	27.84	7.46	1.17	7.50		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	7.64	0.06	7.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.02	0.05	0.06	0.05		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	10.00	0.05	10.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	0.47	0.09	0.48		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.93	0.36	0.11	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.64	0.69	0.20	0.69		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.15	0.86	0.28	0.87		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	1.41	1.89	0.90	1.92		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.25	0.29	0.11	0.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 2.14

Quality Assurance Review

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

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00041

Request or PO Number:

Client Sample ID: RE15-10-7985

ARS Sample ID: ARS2-10-00041-001

Sample Collection Date: 02/01/10 15:00

Date Received: 02/02/10 00:00

Sample Matrix: Soil/Solid

Report Date: 07/06/10 08:01

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	24.44	26.03	37.46	26.21		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
GROSS BETA	85.86	19.68	18.46	22.31		pCi/g	EPA 900.0M	2/3/2010	NP	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
K-40	8.95	5.96	2.01	5.97		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CO-60	0.00	13.13	0.13	13.13		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
CS-137	0.49	0.32	0.08	0.32		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
EU-152	0.84	0.82	0.26	0.82		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
PB-212	1.21	0.54	0.18	0.54		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
RA-228	0.68	0.43	0.50	0.43		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-235	2.16	0.97	0.28	0.97		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
U-238	9.26	5.26	1.93	5.67		pCi/g	EPA 901.1M	2/3/2010	NP	N/A
AM-241	0.09	0.20	0.10	0.20		pCi/g	EPA 901.1M	2/3/2010	NP	N/A

NOTES: % Moisture: 5.49

Matthew J. Ecker
Quality Assurance Review

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

LELAP Certificate # 30658

NELAP Certificate # EB7558

DATA VALIDATION COVER SHEET**5122-1****Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1470 VALIDATION DATE: 3/8/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Eric T. Mink ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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


Section II. Completeness Check

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


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

1. The CCV %Ds were >20% with a positive bias for 2,4,6-trinitrotoluene; RDX and p-nitrotoluene. The associated sample results were NDs and, thus, were not qualified. The CCV %D was >20% but ≤40% with a negative bias for 2,4-diamino-6-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7c.
2. The LCS %R was < the laboratory's LAL but ≥10% for tetra. The associated sample results were NDs and, thus, were qualified UJ,HE12a.


Reviewed by: Susan Ball **Level:** 1 **Date:** 03/09/10VALIDATOR'S SIGNATURE: Eric T. Mink DATE: 3/8/10

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


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

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

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

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

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216182a

Date Analyzed: 20-FEB-10 10:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170016.wiff

Date Analyzed: 17-FEB-10 13:21

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 UJ,HE7c	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 9.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216185a

Date Analyzed: 20-FEB-10 12:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 9.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170019.wiff

Date Analyzed: 17-FEB-10 14:08

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 UJ,HE7c	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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216186a

Date Analyzed: 20-FEB-10 12:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170020.wiff

Date Analyzed: 17-FEB-10 14:24

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 UJ,HE7c	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

ETM
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216187a

Date Analyzed: 20-FEB-10 13:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	9530	
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170021.wiff

Date Analyzed: 17-FEB-10 14:40

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 UJ,HE7c	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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ETM
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216188a

Date Analyzed: 20-FEB-10 13:53

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170022.wiff

Date Analyzed: 17-FEB-10 14:56

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 UJ,HE7c	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216189a

Date Analyzed: 20-FEB-10 14:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	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: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170023.wiff

Date Analyzed: 17-FEB-10 15:11

Units: ug/kg

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216193a

Date Analyzed: 20-FEB-10 16:21

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170027.wiff

Date Analyzed: 17-FEB-10 16:14

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution
Sample Amount Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7881

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216194a

Date Analyzed: 20-FEB-10 16:51

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	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: RE15-10-7881

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170028.wiff

Date Analyzed: 17-FEB-10 16:30

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 UJ,HE7c	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216195a

Date Analyzed: 20-FEB-10 17:20

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170029.wiff

Date Analyzed: 17-FEB-10 16:45

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE7c	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: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216196a

Date Analyzed: 20-FEB-10 17:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170030.wiff

Date Analyzed: 17-FEB-10 17:01

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 UJ,HE7c	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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216197a

Date Analyzed: 20-FEB-10 18:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	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: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170031.wiff

Date Analyzed: 17-FEB-10 17:17

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 UJ,HE7c	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>		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216198a

Date Analyzed: 20-FEB-10 18:49

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument Value X Concentrated Extract Volume Sample Amount X Dilution Factor

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170032.wiff

Date Analyzed: 17-FEB-10 17:33

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 UJ,HE7c	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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216199a

Date Analyzed: 20-FEB-10 19:19

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170033.wiff

Date Analyzed: 17-FEB-10 17:48

Units: ug/kg

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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216200a

Date Analyzed: 20-FEB-10 19:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15--10--7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Molsture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170034.wiff

Date Analyzed: 17-FEB-10 18:04

Units: ug/kg

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

ETM
3/8/10

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216201a

Date Analyzed: 20-FEB-10 20:18

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170035.wiff

Date Analyzed: 17-FEB-10 18:20

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 UJ,HE7c	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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216202a

Date Analyzed: 20-FEB-10 20:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170036.wiff

Date Analyzed: 17-FEB-10 18:35

Units: ug/kg

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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216206a

Date Analyzed: 20-FEB-10 22:46

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170040.wiff

Date Analyzed: 17-FEB-10 19:38

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216207a

Date Analyzed: 20-FEB-10 23:15

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170041.wiff

Date Analyzed: 17-FEB-10 19:54

Units: ug/kg

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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216208a

Date Analyzed: 20-FEB-10 23:45

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12a	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

ETM
3/8/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170042.wiff

Date Analyzed: 17-FEB-10 20:10

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 UJ,HE7c	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

ETM
3/8/10

DATA VALIDATION COVER SHEET**5116-1****Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1470 VALIDATION DATE: 3/8/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Eric T. Mink ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

None.

Reviewed by: Susan Ball**Level:** I**Date:** 03/09/10VALIDATOR'S SIGNATURE: Eric T. MinkDATE: 3/8/10

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				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, 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 checked="" type="checkbox"/>	<input type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

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

5116-2

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

Records Use only



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

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

Yes	No	N/A		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: 10-1470
Lab Sample ID: 245795008

Client ID: RE15-10-7881
Batch ID: 949033
Run Date: 02/05/2010 11:12
Prep Date: 02/04/2010 20:32
Data File: 024f2401.d
024b2401.d

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YSI
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
% Moisture: 37.1
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	5.30	ug/kg	1.76	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.76	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.76	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.76	5.30	1
12672-29-6	Aroclor-1248	U	5.30	ug/kg	1.76	5.30	1
11097-69-1	Aroclor-1254	U	5.30	ug/kg	1.76	5.30	1
11096-82-5	Aroclor-1260	U	5.30	ug/kg	1.76	5.30	1

ETM
3/8/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470	Date Collected: 01/26/2010 12:00	Matrix: SOIL
Lab Sample ID: 245795006	Date Received: 01/29/2010 08:45	%Moisture: 12.5
Client ID: RE15-10-7882	Client: LANL010	Project: LANL01004
Batch ID: 949033	Method: SW846 8082	SOP Ref: GL-OA-E-040
Run Date: 02/05/2010 10:26	Inst: ECD1A.I	Dilution: 1
Prep Date: 02/04/2010 20:32	Analyst: YS1	Inj. Vol: 1 uL
Data File: 020f2001.d	Aliquot: 30.03 g	Final Volume: 1 mL
020b2001.d	Column: 1 CLP1	Level: LOW
	2 CLP2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.81	ug/kg	1.27	3.81	1
11104-28-2	Aroclor-1221	U	3.81	ug/kg	1.27	3.81	1
11141-16-5	Aroclor-1232	U	3.81	ug/kg	1.27	3.81	1
53469-21-9	Aroclor-1242	U	3.81	ug/kg	1.27	3.81	1
12672-29-6	Aroclor-1248	U	3.81	ug/kg	1.27	3.81	1
11097-69-1	Aroclor-1254	U	3.81	ug/kg	1.27	3.81	1
11096-82-5	Aroclor-1260	U	3.81	ug/kg	1.27	3.81	1

ETM
3/8/10

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1470
Lab Sample ID: 245795005Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2Matrix: SOIL
%Moisture: 33.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.97	ug/kg	1.66	4.97	1
11104-28-2	Aroclor-1221	U	4.97	ug/kg	1.66	4.97	1
11141-16-5	Aroclor-1232	U	4.97	ug/kg	1.66	4.97	1
53469-21-9	Aroclor-1242	U	4.97	ug/kg	1.66	4.97	1
12672-29-6	Aroclor-1248	U	4.97	ug/kg	1.66	4.97	1
11097-69-1	Aroclor-1254	J	3.40	ug/kg	1.66	4.97	1
11096-82-5	Aroclor-1260	U	4.97	ug/kg	1.66	4.97	1

ETM
3/8/10

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1470
Lab Sample ID: 245795003Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.18 g
Column: 1 CLP1
2 CLP2Matrix: SOIL
%Moisture: 6.5
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

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

ETM
3/8/10

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1470
Lab Sample ID: 245795007Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Allquot: 30.01 g
Column: 1 CLP1
2 CLP2Matrix: SOIL
%Moisture: 33
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.98	ug/kg	1.66	4.98	1
11104-28-2	Aroclor-1221	U	4.98	ug/kg	1.66	4.98	1
11141-16-5	Aroclor-1232	U	4.98	ug/kg	1.66	4.98	1
53469-21-9	Aroclor-1242	U	4.98	ug/kg	1.66	4.98	1
12672-29-6	Aroclor-1248	U	4.98	ug/kg	1.66	4.98	1
11097-69-1	Aroclor-1254	U	4.98	ug/kg	1.66	4.98	1
11096-82-5	Aroclor-1260	U	4.98	ug/kg	1.66	4.98	1

ETM
3/8/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795001

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 9.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

ETM
3/8/10

PCB

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Certificate of Analysis
Sample SummarySDG Number: 10-1470
Lab Sample ID: 245795004Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2Matrix: SOIL
%Moisture: 37.1
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	5.30	ug/kg	1.77	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.77	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.77	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.77	5.30	1
12672-29-6	Aroclor-1248	U	5.30	ug/kg	1.77	5.30	1
11097-69-1	Aroclor-1254	P	36.8	ug/kg	1.77	5.30	1
11096-82-5	Aroclor-1260		23.3	ug/kg	1.77	5.30	2
11100-14-4	Aroclor-1268		20.5	ug/kg	1.77	5.30	2

ETM
3/8/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795002

Client ID: RE15-10-7890
Batch ID: 949033
Run Date: 02/05/2010 09:36
Prep Date: 02/04/2010 20:32
Data File: 016f1601.d
016b1601.d

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YSI
Aliquot: 30.19 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 9.8
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	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	JP	2.90	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	J	3.10	ug/kg	1.22	3.67	2
11100-14-4	Aroclor-1268	P	4.50	ug/kg	1.22	3.67	2

ETM
3/8/10

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1470

LOS ALAMOS

REQUEST NUMBER: 10-1470

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC,

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245795%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7888	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7890	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7886	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7889	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7885	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7882	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7887	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7881	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7951	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7950	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7947	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7944	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7948	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7941	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7949	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7946	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7942	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7945	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7943	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature] 1/28/10 1400 *[Signature]* *[Signature]* 1-29-10 08:45

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

Thursday, January 28, 2010

LOS ALAMOS
NATIONAL LABORATORY

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

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/28/2010
TURNAROUND/REPORT DUE: 2/27/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 2
REQUEST NUMBER: 10-1470

These Samples are on:
LANL Request Number: 10-1470
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-7881	R	1/26/2010	
		1	RE15-10-7882	R	1/26/2010	
		1	RE15-10-7885	R	1/26/2010	
		1	RE15-10-7886	R	1/26/2010	
		1	RE15-10-7887	R	1/26/2010	
		1	RE15-10-7888	R	1/26/2010	
		1	RE15-10-7889	R	1/26/2010	
		1	RE15-10-7890	R	1/26/2010	
	SW-846-8321A_MOD	1	RE15-10-7881	R	1/26/2010	

Thursday, January 28, 2010

Page 2 of 2

REQUEST NUMBER: 10-1470

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8321A_MOD	1	RE15-10-7882	R	1/26/2010	
		1	RE15-10-7885	R	1/26/2010	
		1	RE15-10-7886	R	1/26/2010	
		1	RE15-10-7887	R	1/26/2010	
		1	RE15-10-7888	R	1/26/2010	
		1	RE15-10-7889	R	1/26/2010	
		1	RE15-10-7890	R	1/26/2010	
		1	RE15-10-7941	R	1/26/2010	
		1	RE15-10-7942	R	1/26/2010	
		1	RE15-10-7943	R	1/26/2010	
		1	RE15-10-7944	R	1/26/2010	
		1	RE15-10-7945	R	1/26/2010	
		1	RE15-10-7946	R	1/26/2010	
		1	RE15-10-7947	R	1/26/2010	
		1	RE15-10-7948	R	1/26/2010	
		1	RE15-10-7949	R	1/26/2010	
		1	RE15-10-7950	R	1/26/2010	
		1	RE15-10-7951	R	1/26/2010	

Final Page of REQUEST NUMBER 10-1470



February 04, 2010

www.gel.com

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

Re: LANL ER Project
Work Order: 245795
SDG: 10-1470

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 29, 2010, and analyzed for Explosives by LCMSMS and GC Semivolatile PCB. 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: 10-1470
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 245795
SDG: 10-1470

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Case Narrative

Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 245795
SDG # : 10-1470

February 04, 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 January 29, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:


<u>Laboratory ID</u>	<u>Client ID</u>
245795001	RE15-10-7888
245795002	RE15-10-7890
245795003	RE15-10-7886
245795004	RE15-10-7889
245795005	RE15-10-7885
245795006	RE15-10-7882
245795007	RE15-10-7887
245795008	RE15-10-7881
245795009	RE15-10-7951
245795010	RE15-10-7950
245795011	RE15-10-7947
245795012	RE15-10-7944
245795013	RE15-10-7948
245795014	RE15-10-7941
245795015	RE15-10-7949
245795016	RE15-10-7946
245795017	RE15-10-7942
245795018	RE15-10-7945
245795019	RE15-10-7943

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 and GC Semivolatile PCB.

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 04 February 2010

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

Chain of Custody and Supporting Documentation

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1470

LOS ALAMOS

REQUEST NUMBER: 10-1470

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245795%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7888	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7890	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7886	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7889	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7885	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7882	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7887	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7881	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-7951	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7950	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7947	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7944	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7948	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7941	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7949	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7946	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7942	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7945	1	AMBER GLASS	NMED Explosives list	Ice	R
RE15-10-7943	1	AMBER GLASS	NMED Explosives list	Ice	R

Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date Time

Remarks:

Printed Name

Signature

Thursday, January 28, 2010

REQUEST NUMBER: 10-1470

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1470

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/28/2010

TURNAROUND/REPORT DUE: 2/27/2010

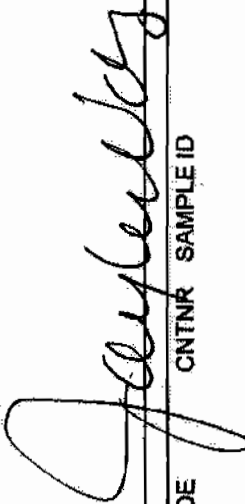
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.8082	1	RE15-10-7881	R	1/26/2010	
		1	RE15-10-7882	R	1/26/2010	
		1	RE15-10-7885	R	1/26/2010	
		1	RE15-10-7886	R	1/26/2010	
		1	RE15-10-7887	R	1/26/2010	
		1	RE15-10-7888	R	1/26/2010	
		1	RE15-10-7889	R	1/26/2010	
		1	RE15-10-7890	R	1/26/2010	
	SW-846.8321A_MOD	1	RE15-10-7881	R	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1470

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:3321A_MOD	1	RE15-10-7882	R	1/26/2010	
		1	RE15-10-7885	R	1/26/2010	
		1	RE15-10-7886	R	1/26/2010	
		1	RE15-10-7887	R	1/26/2010	
		1	RE15-10-7888	R	1/26/2010	
		1	RE15-10-7889	R	1/26/2010	
		1	RE15-10-7890	R	1/26/2010	
		1	RE15-10-7941	R	1/26/2010	
		1	RE15-10-7942	R	1/26/2010	
		1	RE15-10-7943	R	1/26/2010	
		1	RE15-10-7944	R	1/26/2010	
		1	RE15-10-7945	R	1/26/2010	
		1	RE15-10-7946	R	1/26/2010	
		1	RE15-10-7947	R	1/26/2010	
		1	RE15-10-7948	R	1/26/2010	
		1	RE15-10-7949	R	1/26/2010	
		1	RE15-10-7950	R	1/26/2010	
		1	RE15-10-7951	R	1/26/2010	

Final Page of REQUEST NUMBER 10-1470



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1470		
Received By: Patricia Dover-Dent			Date Received: January 29, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 60 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 1-6 10-12C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

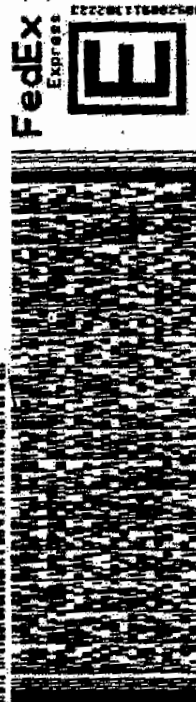
Comments: FEDEX#S

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7209 7849 7500 5C	7209 7849 7533 1C
7209 7849 7452 2C	7209 7849 7544 1C
7209 7849 7474 1C	7209 7849 7420 10C
7209 7849 7441 4C	7209 7849 7496 2C
7209 7849 7463 3C	7209 7849 7485 3C
7209 7849 7430 10C	7209 7849 7408 12C
7209 7849 7511 6C	

ORIGIN ID: SGER (505) 656-9958
SHIP DATE: 29 JAN 13
ACTGRT: 50.9 LB. MAN
CAD: 0014176/CAFE2449
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1800 BLDG 1237 DPU 03
LOS ALAMOS NM 87545
UNITED STATES US
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR200515BYDD



FRI - 29 JAN A1
PRIORITY OVERNIGHT

3 of 3
MP# 7209 7849 7419
Met# 7209 7849 7393

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SC-US
CHS

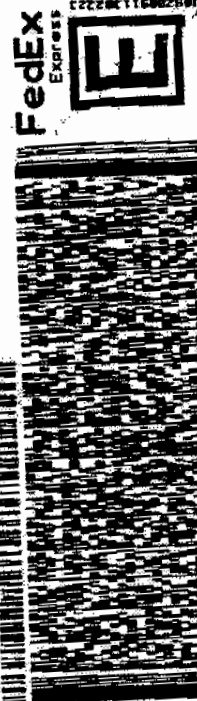
XX CHSA



ORIGIN ID: SGER (505) 656-9338
SHIP DATE: 29 JAN 13
ACTGRT: 50.9 LB. MAN
CAD: 0014176/CAFE2449
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1800 BLDG 1237 DPU 03
LOS ALAMOS NM 87545
UNITED STATES US
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR10015AGNKO



FRI - 29 JAN A1
PRIORITY OVERNIGHT

1 of 2
TRK# 7209 7849 7500
Met# 7209 7849 7500

29407
SC-US
CHS

XX CHSA



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

SHIP DATE: 28JAN10
ACT146 42 @ LB MAN
CAD: 0014176/CFFE2449

BILL SENDER
LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS

GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(943) 556-8171
REF: 6B010AMR1A015AGWKO

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Express



FRI - 29JAN A1
PRIORITY OVERNIGHT

2 of 2
TRK# 7209 7849 7474
0203
REF: 7209 7849 7463 0201

29407
SC-US
CHS

XX CHSA



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

SHIP DATE: 28JAN10
ACT146 42 @ LB MAN
CAD: 0014176/CFFE2449

BILL SENDER
LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(943) 556-8171
REF: 6B010AMR3A05529E00

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Express



FRI - 29JAN A1
PRIORITY OVERNIGHT

TRK# 7209 7849 7452
0201
29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1800 BLDG 1237 DPU 03

SHIP DATE: 28 JAN 10
ACTMGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 555-8171
REF: 68010MR10015AGMKO

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Express



FRI - 29 JAN A1
PRIORITY OVERNIGHT

1 of 2
TRK# 7209 7849 7463
NN MASTER NN

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29407
SC-US
CHS



SHIP DATE: 28 JAN 10
ACTMGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1800 BLDG 1237 DPU 03

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 555-8171
REF: 68010MR3A05529EQ0

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FRI - 29 JAN A1
PRIORITY OVERNIGHT

2 of 2
TRK# 7209 7849 7441
NN MASTER NN

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SC-US
CHS



ORIGIN ID: SFA (505) 665-9968
JOYCE VALDEZ
LOS ALAMOS NATL LAB
T880 BLDG 1237 DPU 83

SHIP DATE: 28JAN10
ACTMCT: 52.0 LB NON
CDO: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-8171

REF: 68010R100150GKNO

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FRI - 29JAN A1
PRIORITY OVERNIGHT

1 of 2
7209 7849 7430

MASTER 800

XX CHSA
29407
SC-US
CHS



ORIGIN ID: SFA (505) 665-9968
JOYCE VALDEZ
LOS ALAMOS NATL LAB
T880 BLDG 1237 DPU 83

SHIP DATE: 28JAN10
ACTMCT: 52.0 LB NON
CDO: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 555-8171

REF: 68010R100150GKNO

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FRI - 29JAN A1
PRIORITY OVERNIGHT

2 of 2
7209 7849 7511

MASTER 7209 7849 7500 0201

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29407
SC-US
CHS



ORIGIN ID: SAFA (665) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NUTL LAB
THRU BLDO 3237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 64.0 LB MAN
CRD: 9014176/CAPEZ449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

66

CHARLESTON SC 29407

(843) 956-8171
REF: 688104981001500NKO

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Express



FRI - 29JAN A1
PRIORITY OVERNIGHT

Trk# 7209 7849 7522
[2281]

29407
SC-US
CHS

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Part # 158148-434 NRT V3 04-08

132
23

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

SHIP DATE: 28JAN18
ACTMGT: 89.8 LB MAN
CSD: 0614176/CFE2449

LOS ALAMOS NM 87645
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 854-8171
REF: 680100X49008850000

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FRI - 29 JAN AI
PRIORITY OVERNIGHT

TRK# 7209 7849 7533
0201

29407

SC-US
CHS

XX CHSA



Part # 156148-434 NRT V3 04-09

RT 238

FZ

1 B
7544
01.29

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

SHIP DATE: 28JAN18
ACTMGT: 89.8 LB MAN
CSD: 0614176/CFE2449

LOS ALAMOS NM 87645
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 854-8171
REF: 680100X49008850000

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Express



FRI - 29 JAN AI
PRIORITY OVERNIGHT

TRK# 7209 7849 7544
0201

29407

SC-US
CHS

XX CHSA



Part # 156148-434 NRT V3 04-09

ORIGIN ID: SARA (506) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DRU 03
LOS ALAMOS NM 87545
UNITED STATES US

SHIP DATE: 28 JAN 19
ACTMGT: 54.0 LB MON
CRD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
REF: 690100NR1A015AGMNO

UNIT STATES US

FedEx
Express



FRI - 29 JAN A1
PRIORITY OVERNIGHT

2 of 2
NPSK 7209 7849 7496
0263
Pst-L-N 7209 7849 7485 0291

XX CHSA

29407
SC-US
CHS



Part # 156143-434 NRJT V3 04-0

ORIGIN ID: SARA (506) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DRU 03
LOS ALAMOS NM 87545
UNITED STATES US

SHIP DATE: 28 JAN 19
ACTMGT: 51.8 LB MON
CRD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171
REF: 690100NR2A005150YDO

UNIT STATES US

FedEx
Express



FRI - 29 JAN A1
PRIORITY OVERNIGHT

TRKH 7209 7849 7420
0201

XX CHSA

29407
SC-US
CHS



ORIGIN ID: 55FA (5057) 635-9968
JOYLINE VCI DET 108
LOS ALAMOS NATL LAB
TANR BLDG 1237 CPU 03
LOS ALAMOS, NM 87646
UNITED STATES US

SHIP DATE: 28 JAN 18
ACTING: 48 2 LB MAN
CRD: 0014781CRFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 680100W1001502000

REF: 680100W1001502000



FRI - 29 JAN AI
PRIORITY OVERNIGHT

1 of 2
TRK# 7209 7849 7405
NM MASTER NM

29407
SC-US
CHS

XX CHSA



ORIGIN ID: 55FA (5057) 635-9968
JOYLINE VCI DET 108
LOS ALAMOS NATL LAB
TANR BLDG 1237 CPU 03
LOS ALAMOS, NM 87646
UNITED STATES US

SHIP DATE: 28 JAN 18
ACTING: 48 2 LB MAN
CRD: 0014781CRFE2449
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 680100W1001502000



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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.

LC/MS/MS EXPLOSIVES ANALYSIS

**LC/MS/MS Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1470**

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: 947089

Prep Batch Number: 947088

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8321A Modified:

Sample ID	Client ID
245795001	RE15-10-7888
245795002	RE15-10-7890
245795003	RE15-10-7886
245795004	RE15-10-7889
245795005	RE15-10-7885
245795006	RE15-10-7882
245795007	RE15-10-7887
245795008	RE15-10-7881
245795009	RE15-10-7951
245795010	RE15-10-7950
245795011	RE15-10-7947
245795012	RE15-10-7944
245795013	RE15-10-7948
245795014	RE15-10-7941
245795015	RE15-10-7949
245795016	RE15-10-7946
245795017	RE15-10-7942
245795018	RE15-10-7945
245795019	RE15-10-7943
1202028685	Method Blank (MB)
1202028686	Laboratory Control Sample (LCS)
1202028687	245795001(RE15-10-7888) Matrix Spike (MS)
1202028688	245795001(RE15-10-7888) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-056 REV# 12.

10-1470-EXPLCMS

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 recovered Tetryl at 39.2%. The recovery limits are 51-112%. Since the MS and MSD both met acceptance limits for Tetryl, the data are reported. The Tetryl recovery met the DOD QSM recovery limits of 10-150%. Please see data exception report 739796.

QC Sample Designation

Sample 245795001 (RE15-10-7888) 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.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

All initial calibration requirements for this analysis have been met for this SDG.

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

All initial or continuing calibration blanks (ICB or CCB) bracketing the analyses associated with this batch for this analysis were within acceptance criteria. Due to software limitations, the CCBs and/or the ICBs may have a concentration for target analytes in the Found column. These values should be zero.

CRI Requirements

All low level calibration verification (CRI) requirements for this analysis were met by all bracketing CRI standards and may be based off the grand mean average percent recovery of all target analytes.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG for this analysis met the acceptance criteria.

Surrogate Recoveries

All the surrogate recoveries were within the established acceptance criteria in this SDG in this analytical batch for this analysis.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Sample 245795001 (RE15-10-7888) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

The internal standards were not added to the secondary analyte extracts.

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

According to the GEL SOP for Method 8321A, all sample and QC extracts are diluted 1:1 v/v with HPLC grade water. The samples in this SDG in this analytical batch for this analysis did not require any additional dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG in this analytical batch for this analysis except for dilutions.

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

Data exception report 793796 was generated for this SDG.

The LCS recovered Tetryl at 39.2%. The recovery limits are 51-112%. Since the MS and MSD both met acceptance limits for Tetryl, the data are reported. The Tetryl recovery met the DOD QSM recovery limits of 10-150%.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples required manual integrations due to software limitations.

Flagging Convention

The samples were not originally analyzed using SW-846 Method 8330.

Additional Comments

Due to software limitations, all initial calibration blanks must be designated as XIB001 in order for the forms to be correct.

Due to software limitations in the secondary analyte analysis, false positives and analytes detected below the MDL cannot be deleted from the raw data.

Due to software limitations, file extensions such as DL, RE, etc. may not appear on the generated forms and/or raw data.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for primary analyte analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for the primary analyte analysis. The laboratory also utilizes an Agilent 1100 liquid chromatography instrument for either primary or secondary analyte analysis. It is coupled with a Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as either LCMSMS #3 or LCMSMS #4. It is fitted with a APCI (Atmospheric Pressure chemical Ionization) probe that is operated in the negative ionization mode for both the primary and secondary analyte analysis.

Chromatographic Columns

The detection of the primary analyte nitroaromatic and nitramines is accomplished through analysis on the following reversed phase column:

Phenomenex: Ultracarb 5u ODS (20), 250 x 4.60 mm ID.

The detection of the secondary analytes is accomplished through analysis on the following reversed phase column:

YMC: J'sphere ODS-H80, 150 x 4.6mm I.D.

Certification Statement

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

Review Validation:

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

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

Reviewer: Heber M. Mauer Date: 02/23/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216182a

Date Analyzed: 20-FEB-10 10:55

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170016.wiff

Date Analyzed: 17-FEB-10 13:21

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216185a

Date Analyzed: 20-FEB-10 12:24

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 9.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170019.wiff

Date Analyzed: 17-FEB-10 14:08

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216186a

Date Analyzed: 20-FEB-10 12:54

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXSG02170020.wiff

Date Analyzed: 17-FEB-10 14:24

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216187a

Date Analyzed: 20-FEB-10 13:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	9530	
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170021.wiff

Date Analyzed: 17-FEB-10 14:40

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216188a

Date Analyzed: 20-FEB-10 13:53

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170022.wiff

Date Analyzed: 17-FEB-10 14:56

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216189a

Date Analyzed: 20-FEB-10 14:23

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170023.wiff

Date Analyzed: 17-FEB-10 15:11

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216193a

Date Analyzed: 20-FEB-10 16:21

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories I.J.C

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170027.wiff

Date Analyzed: 17-FEB-10 16:14

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7881

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216194a

Date Analyzed: 20-FEB-10 16:51

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7881

Lab Code: GEI

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170028.wiff

Date Analyzed: 17-FEB-10 16:30

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216195a

Date Analyzed: 20-FEB-10 17:20

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170029.wiff

Date Analyzed: 17-FEB-10 16:45

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216196a

Date Analyzed: 20-FEB-10 17:50

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170030.wiff

Date Analyzed: 17-FEB-10 17:01

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216197a

Date Analyzed: 20-FEB-10 18:19

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170031.wiff

Date Analyzed: 17-FEB-10 17:17

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216198a

Date Analyzed: 20-FEB-10 18:49

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170032.wiff

Date Analyzed: 17-FEB-10 17:33

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216199a

Date Analyzed: 20-FEB-10 19:19

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170033.wiff

Date Analyzed: 17-FEB-10 17:48

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216200a

Date Analyzed: 20-FEB-10 19:48

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170034.wiff

Date Analyzed: 17-FEB-10 18:04

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216201a

Date Analyzed: 20-FEB-10 20:18

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170035.wiff

Date Analyzed: 17-FEB-10 18:20

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216202a

Date Analyzed: 20-FEB-10 20:48

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170036.wiff

Date Analyzed: 17-FEB-10 18:35

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216206a

Date Analyzed: 20-FEB-10 22:46

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170040.wiff

Date Analyzed: 17-FEB-10 19:38

Units: ug/kg

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

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216207a

Date Analyzed: 20-FEB-10 23:15

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170041.wiff

Date Analyzed: 17-FEB-10 19:54

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216208a

Date Analyzed: 20-FEB-10 23:45

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170042.wiff

Date Analyzed: 17-FEB-10 20:10

Units: ug/kg

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

*Concentration =

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

QUALITY CONTROL SUMMARY

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
245795001	RE15-10-7888	107	70 - 144	
245795001	RE15-10-7888	116	70 - 144	
245795002	RE15-10-7890	116	70 - 144	
245795002	RE15-10-7890	118	70 - 144	
245795003	RE15-10-7886	115	70 - 144	
245795003	RE15-10-7886	116	70 - 144	
245795004	RE15-10-7889	119	70 - 144	
245795004	RE15-10-7889	116	70 - 144	
245795005	RE15-10-7885	118	70 - 144	
245795005	RE15-10-7885	117	70 - 144	
245795006	RE15-10-7882	115	70 - 144	
245795006	RE15-10-7882	122	70 - 144	
245795007	RE15-10-7887	110	70 - 144	
245795007	RE15-10-7887	126	70 - 144	
245795008	RE15-10-7881	110	70 - 144	
245795008	RE15-10-7881	122	70 - 144	
245795009	RE15-10-7951	118	70 - 144	
245795009	RE15-10-7951	125	70 - 144	
245795010	RE15-10-7950	107	70 - 144	
245795010	RE15-10-7950	122	70 - 144	
245795011	RE15-10-7947	116	70 - 144	
245795011	RE15-10-7947	118	70 - 144	
245795012	RE15-10-7944	123	70 - 144	
245795012	RE15-10-7944	121	70 - 144	
245795013	RE15-10-7948	103	70 - 144	
245795013	RE15-10-7948	119	70 - 144	
245795014	RE15-10-7941	110	70 - 144	
245795014	RE15-10-7941	124	70 - 144	
245795015	RE15-10-7949	120	70 - 144	
245795015	RE15-10-7949	123	70 - 144	
245795016	RE15-10-7946	115	70 - 144	
245795016	RE15-10-7946	128	70 - 144	
245795017	RE15-10-7942	115	70 - 144	
245795017	RE15-10-7942	116	70 - 144	
245795018	RE15-10-7945	119	70 - 144	
245795018	RE15-10-7945	127	70 - 144	
245795019	RE15-10-7943	123	70 - 144	

High Explosives Surrogate Recovery Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
245795019	RE15-10-7943	118	70 - 144	
1202028685	MB for batch 947088	116	70 - 144	
1202028685	MB for batch 947088	120	70 - 144	
1202028686	LCS for batch 947088	113	70 - 144	
1202028686	LCS for batch 947088	114	70 - 144	
1202028687	RE15-10-7888(245795001MS)	110	70 - 144	
1202028687	RE15-10-7888(245795001MS)	118	70 - 144	
1202028688	RE15-10-7888(245795001MSD)	115	70 - 144	
1202028688	RE15-10-7888(245795001MSD)	110	70 - 144	

DNT = 3,4-Dinitrotoluene

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1470

Extract Batch Code: 947088

Date Extracted: 08-FEB-10

GEL LCS ID: 1202028686

GEL LCSDUP ID:

Analysis Date/Time: 20-FEB-10 10:25

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	4170	83.4					69 - 126
2,4,6-Trinitrotoluene	5000	5160	103					73 - 149
2,4-Dinitrotoluene	5000	4590	91.8					87 - 137
2,6-Dinitrotoluene	5000	4790	95.8					89 - 120
2-Amino-4,6-dinitrotoluene	5000	5770	115					90 - 130
4-Amino-2,6-dinitrotoluene	5000	4990	99.8					84 - 130
HMX	5000	4780	95.5					58 - 138
Nitrobenzene	5000	4680	93.7					71 - 122
PETN	5000	5400	108					64 - 137
RDX	5000	4980	99.6					81 - 137
Tetryl	5000	1960	39.2 *					51 - 112
m-Dinitrobenzene	5000	4880	97.5					83 - 122
m-Nitrotoluene	5000	3890	77.9					73 - 118
o-Nitrotoluene	5000	4220	84.4					72 - 119
p-Nitrotoluene	5000	4340	86.9					67 - 131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

3B
High Explosives LCS/LCS Duplicate Summary

Lab Name: GEL Laboratories LLC

Client ID: LCS

Lab Code: GEL

GEL Job No (SDG) 10-1470

Extract Batch Code: 947088

Date Extracted: 08-FEB-10

GEL LCS ID: 1202028686

GEL LCSDUP ID:

Analysis Date/Time: 17-FEB-10 13:06

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	4550	91					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5340	107					64 - 122
3,5-Dinitroaniline	5000	4540	90.8					70 - 127
tris(o-cresyl) phosphate	5000	4910	98.2					84 - 119
TATB	7500	5960	79.5					28 - 162

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Extract Batch Code: 947088

Date Extracted: 08-FEB-10

GEL Spike ID: 1202028687

GEL SpikeDup ID: 1202028688

Analysis Date/Time: 20-FEB-10 11:25

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	4770	95.4	4680	93.7	1.87	30	50 - 140
2,4,6-Trinitrotoluene	5000	0	5530	111	5500	110	.467	30	76 - 144
2,4-Dinitrotoluene	5000	0	5490	110	5100	102	7.46	30	86 - 135
2,6-Dinitrotoluene	5000	0	5100	102	5070	101	.523	30	90 - 118
2-Amino-4,6-dinitrotoluene	5000	0	5690	114	5570	111	2.19	30	85 - 137
4-Amino-2,6-dinitrotoluene	5000	0	5130	103	5080	102	1.01	30	72 - 143
HMX	5000	0	4870	97.4	4570	91.3	6.46	30	51 - 144
Nitrobenzene	5000	0	4360	87.2	4270	85.4	2.08	30	70 - 122
PETN	5000	0	5270	105	4330	86.7	19.6	30	60 - 140
RDX	5000	0	4880	97.5	4440	88.8	9.34	30	59 - 152
Tetryl	5000	0	3140	62.9	3390	67.9	7.62	30	36 - 124
m-Dinitrobenzene	5000	0	5140	103	4790	95.9	6.93	30	85 - 118
m-Nitrotoluene	5000	0	4400	88	4340	86.9	1.23	30	70 - 120
o-Nitrotoluene	5000	0	4570	91.4	4620	92.4	1.15	30	69 - 123
p-Nitrotoluene	5000	0	4650	93	4690	93.7	.78	30	65 - 133

#Column to be used to flag recovery and RPD values with an asterisk

High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Extract Batch Code: 947088

Date Extracted: 08-FEB-10

GEL Spike ID: 1202028687

GEL SpikeDup ID: 1202028688

Analysis Date/Time: 17-FEB-10 13:37

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,6-Diamino-4-nitrotoluene	5000	0	5680	114	5360	107	5.8	30	55 - 130
3,5-Dinitroaniline	5000	0	4800	96	4990	99.8	3.88	30	73 - 129
TATB	7500	0	5950	79.3	5400	72	9.69	30	29 - 155
2,4-Diamino-6-nitrotoluene	5000	0	5340	107	5270	105	1.32	26	34 - 135
tris(o-cresyl) phosphate	5000	33.5	4930	97.9	4970	98.7	.808	30	72 - 127

#Column to be used to flag recovery and RPD values with an asterisk

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-FEB-10 17:07

GEL Data File: EXP0216001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	509.816
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	531.163
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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\021610expa.mdb, Time: Wed Feb 17 09:19:04 2010

Calibration: Untitled, Time: Wed Feb 17 10:00:06 2010

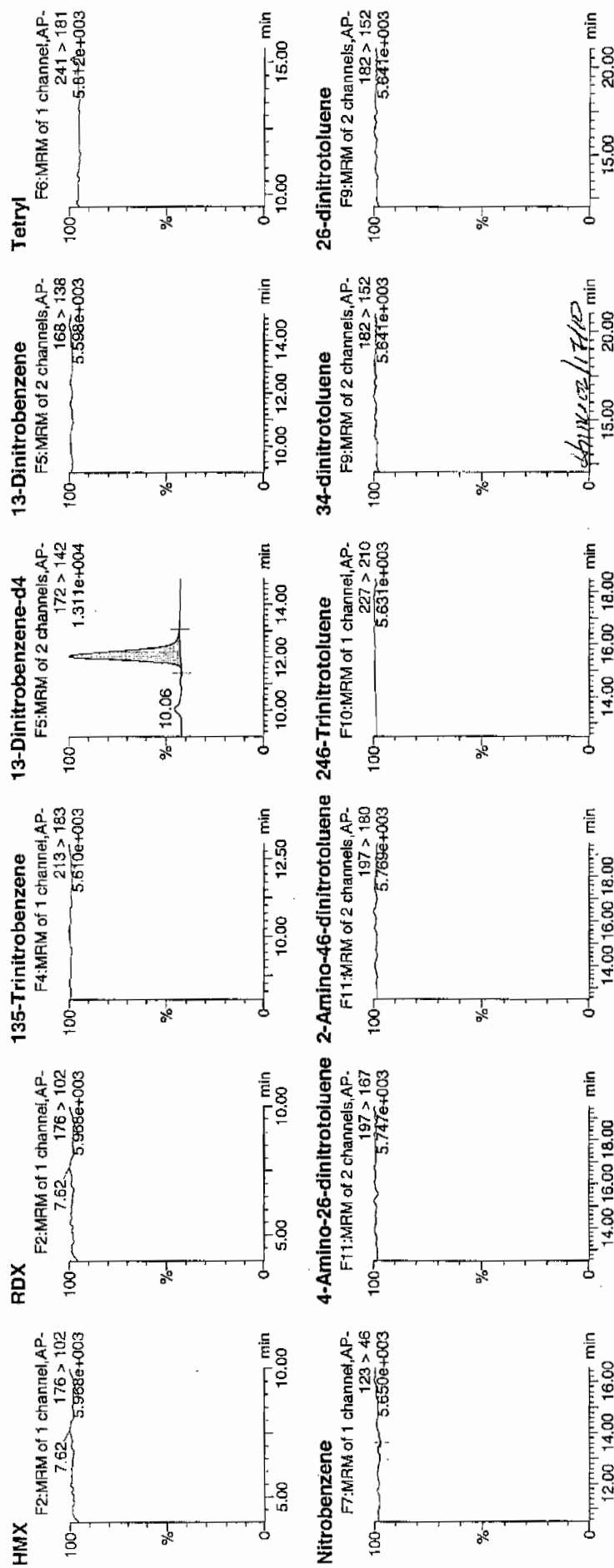
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Date: 16-Feb-2010

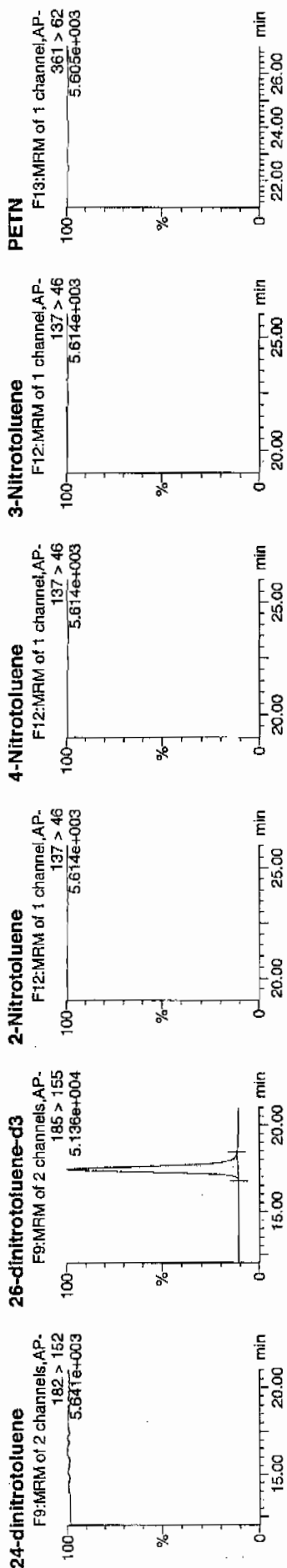
Time: 17:07:38

ID: XIBLK01

Vial: 1:1,A



Dataset: C:\MASSLYNX\New_Exp\PROV021610expA.qld, Time: Wed Feb 17 10:00:06 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N
XIBLK01	HMX	176 > 102			3071.556									
XIBLK01	RDX	176 > 102			3071.556									
XIBLK01	135-Trinitrobenzene	213 > 183			3071.556									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.07	3071.556			3071.556	3071.556	bb		509.8160	102.0	2.0	413.3
XIBLK01	13-Dinitrobenzene	168 > 138			3071.556									
XIBLK01	Tetryl	241 > 181			3071.556									
XIBLK01	Nitrobenzene	123 > 46			3071.556									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167			18493.566									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180			18493.566									
XIBLK01	246-Trinitrotoluene	227 > 210			18493.566									
XIBLK01	34-dinitrotoluene	182 > 152			18493.566									
XIBLK01	26-dinitrotoluene	182 > 152			18493.566									
XIBLK01	24-dinitrotoluene	182 > 152			18493.566									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.42	18493.566			18493.566	18493.566	bb		531.1631	106.2	6.2	1741.8
XIBLK01	2-Nitrotoluene	137 > 46			18493.566									
XIBLK01	4-Nitrotoluene	137 > 46			18493.566									
XIBLK01	3-Nitrotoluene	137 > 46			18493.566									
XIBLK01	PETN	361 > 62			18493.566									

MM- 17-Feb-10 09:21:37

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-FEB-10 17:37

GEL Data File: EXP0216002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	540.968
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	530.887
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

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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216002a

Date: 16-Feb-2010

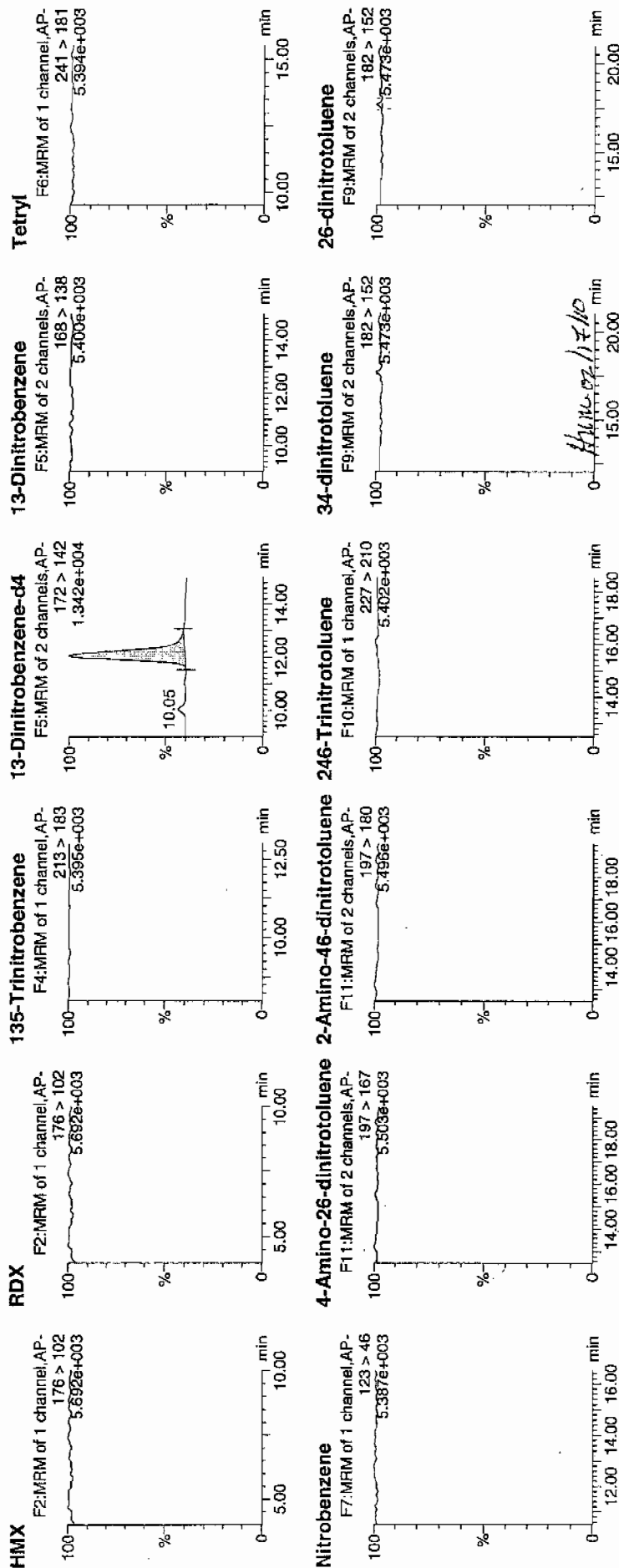
Time: 17:37:26

ID: XIBLK01

Vial: 1:1,A

MR
1/2/10

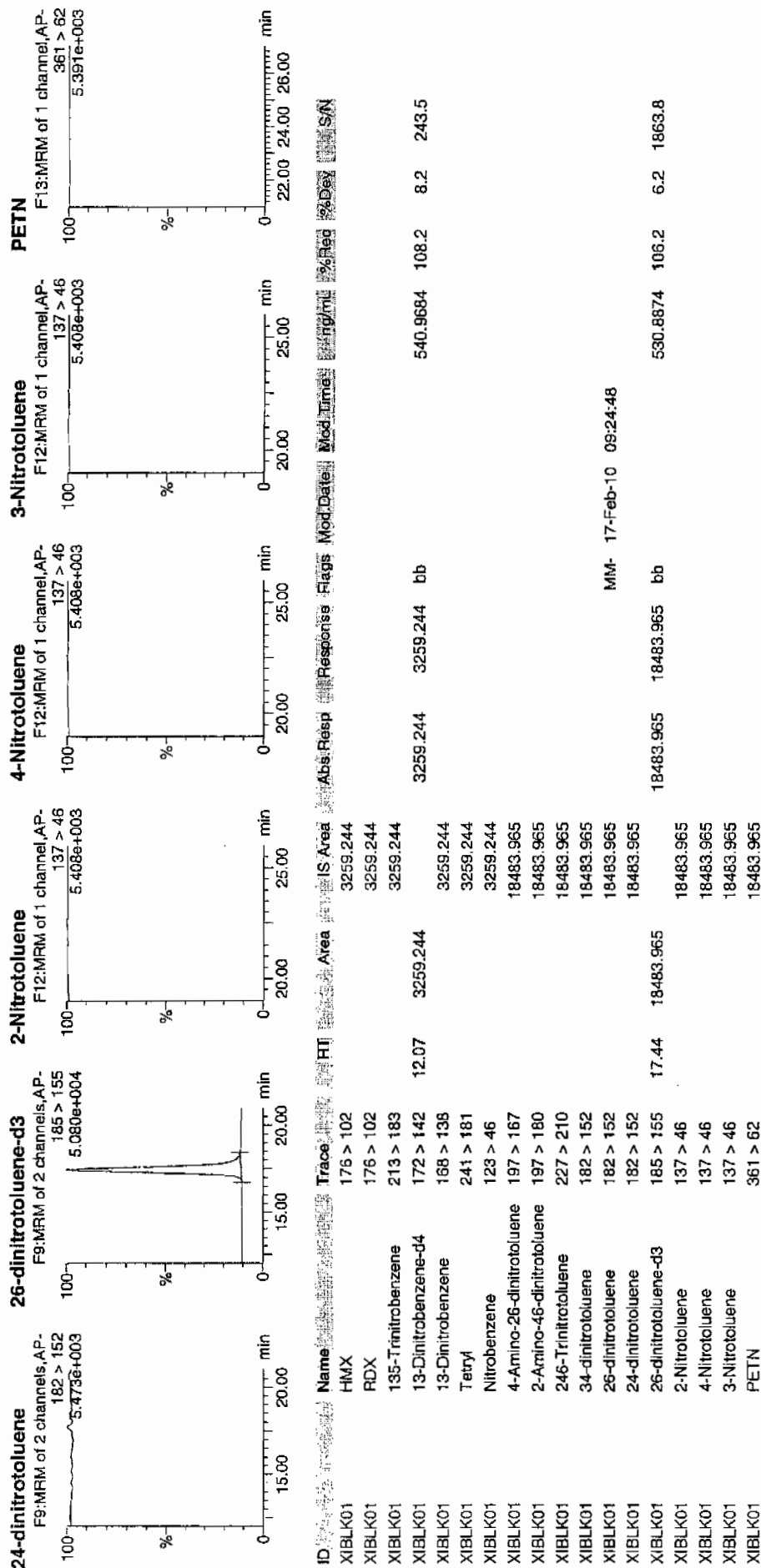
Page 76 of 746



Printed: Wed Feb 17 10:00:54 2010, Page 4 of 59

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 17-FEB-10 09:26

GEL Data File: EXS02170001.wiff

Instrument ID: LCMSMS

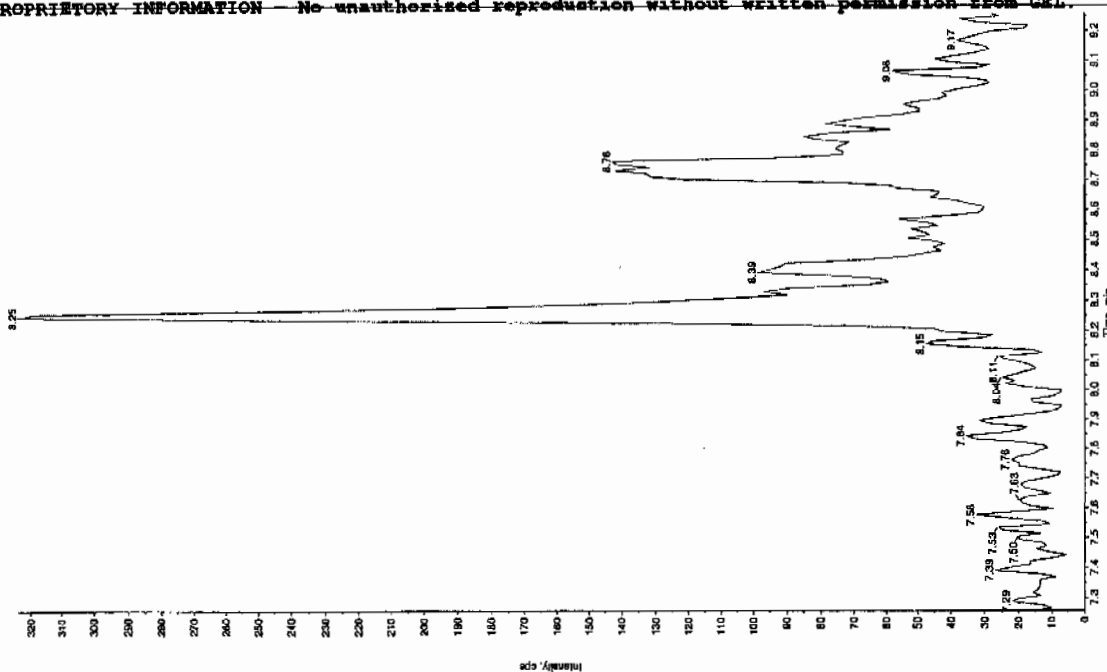
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.59
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 2/19/10

Sample Name: "XBLU001" Sample ID: "TILER" File: "EX52170001.will"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

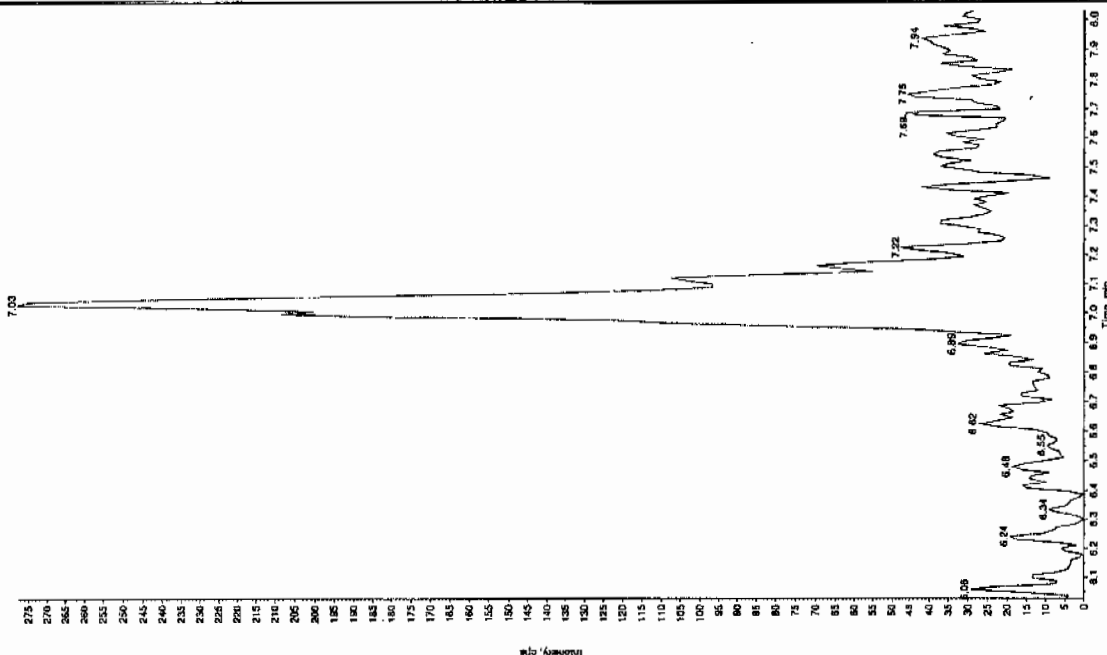
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 3/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No



See 2/19/10

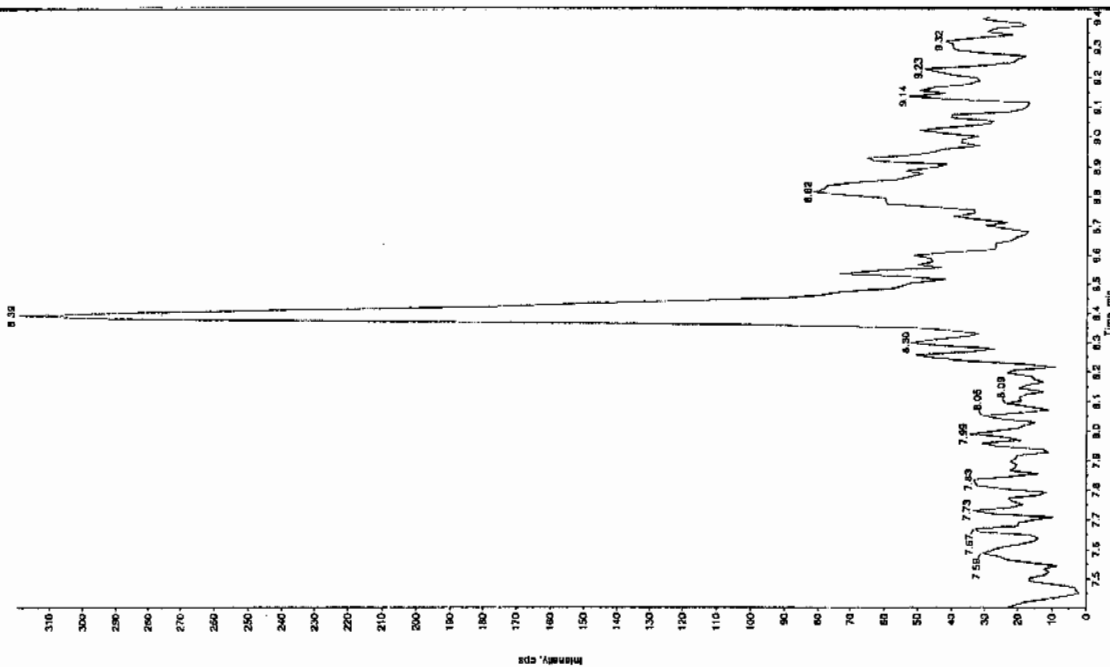
Sample Name: "XBLU001" Sample ID: "TILER" File: "EX52170001.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 mg/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No



Sample Name: "XBLX01" Sample ID: "11LEH" File: "EX502170001.will"
 Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No

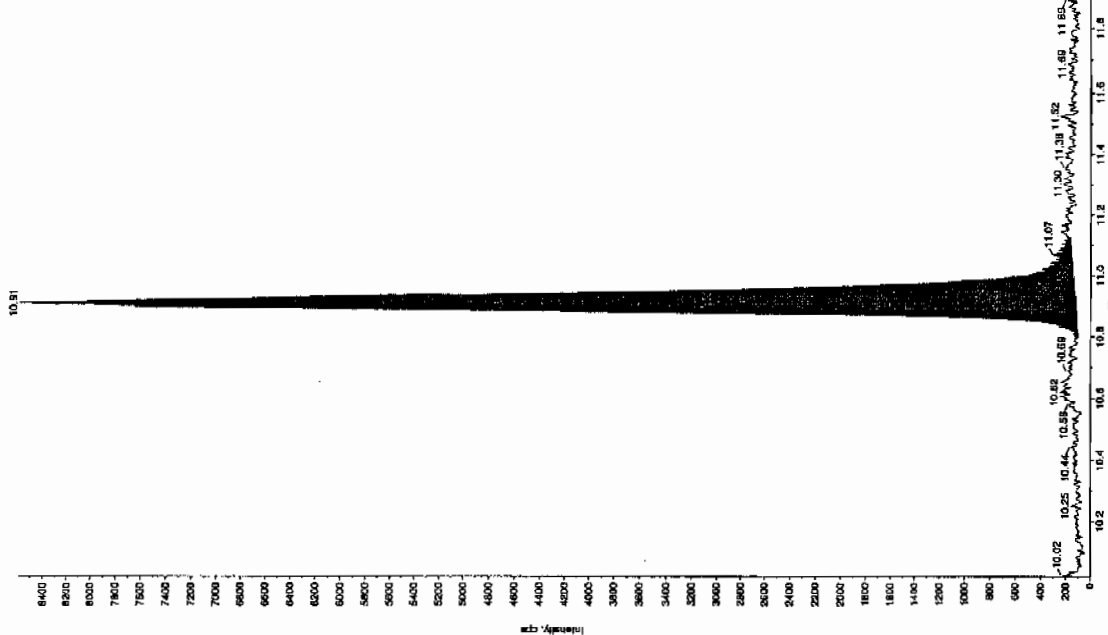


Sample Name: "XBLX01" Sample ID: "11LEH" File: "EX502170001.will"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No

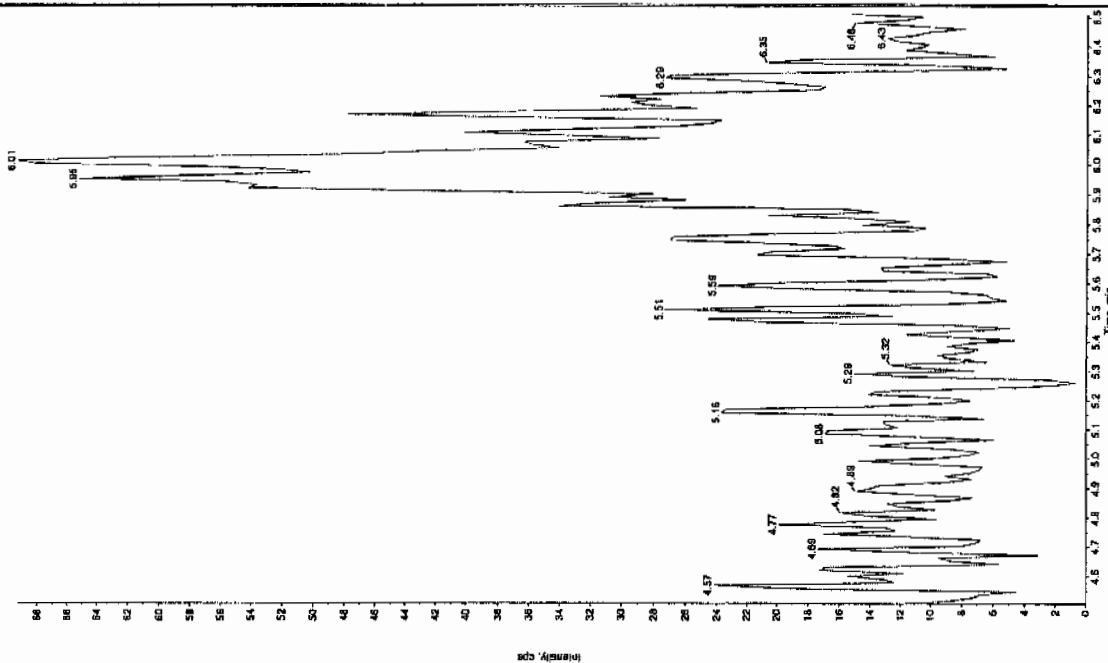
Sample Name: "XIBLK01" Sample ID: "TILER" File: "EXS02170001.will"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1810 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.59 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 3.47e-004 counts
 Height: 8467.519 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK01" Sample ID: "TILER" File: "EXS02170001.will"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0465 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:26:16 AM
 Modified: No



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 17-FEB-10 09:42

GEL Data File: EXS02170002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

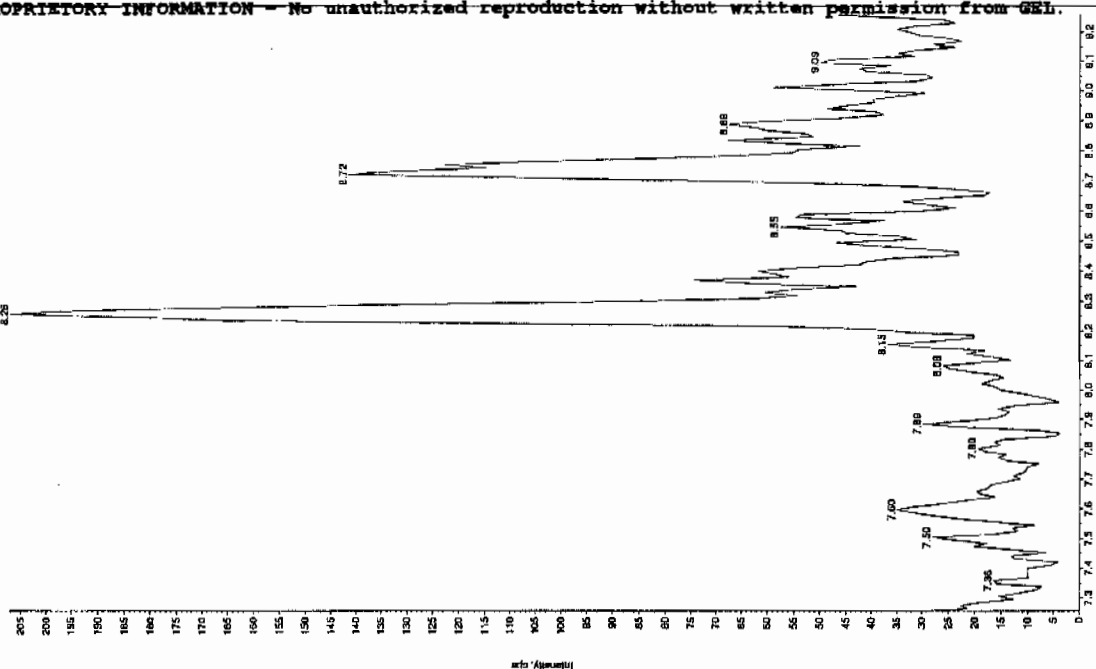
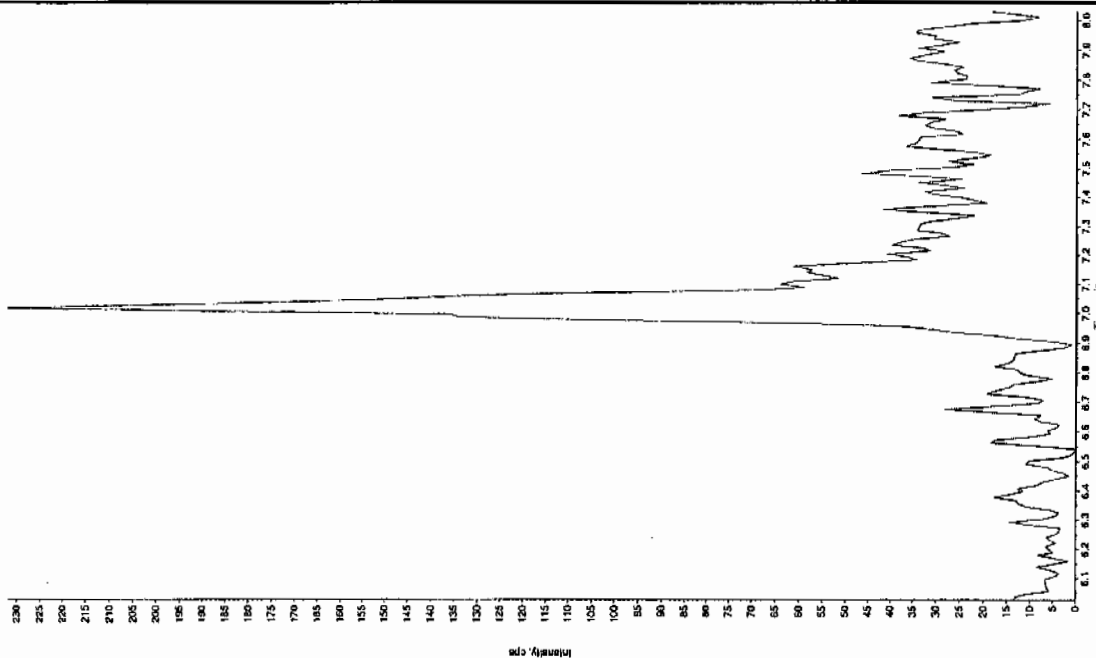
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	0
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Sample Name: "XBL001" Sample ID: "111111" File: "EX502170002.will"

Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:42:02 AM
 Modified: No

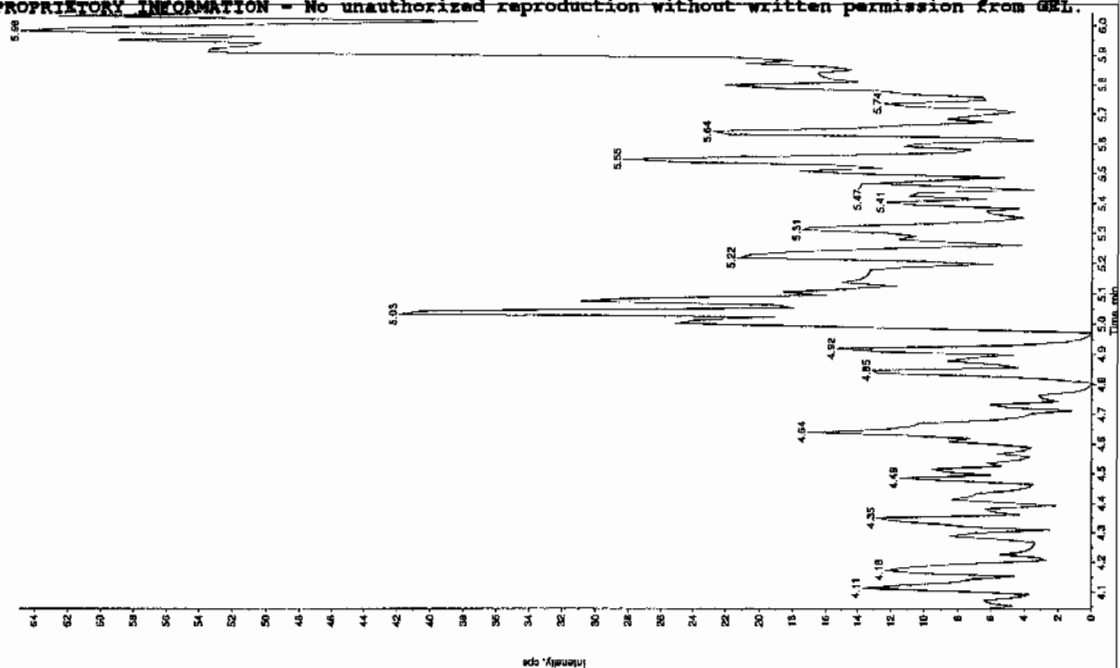


Handwritten: *2/19/10*

Handwritten: *2/19/10*

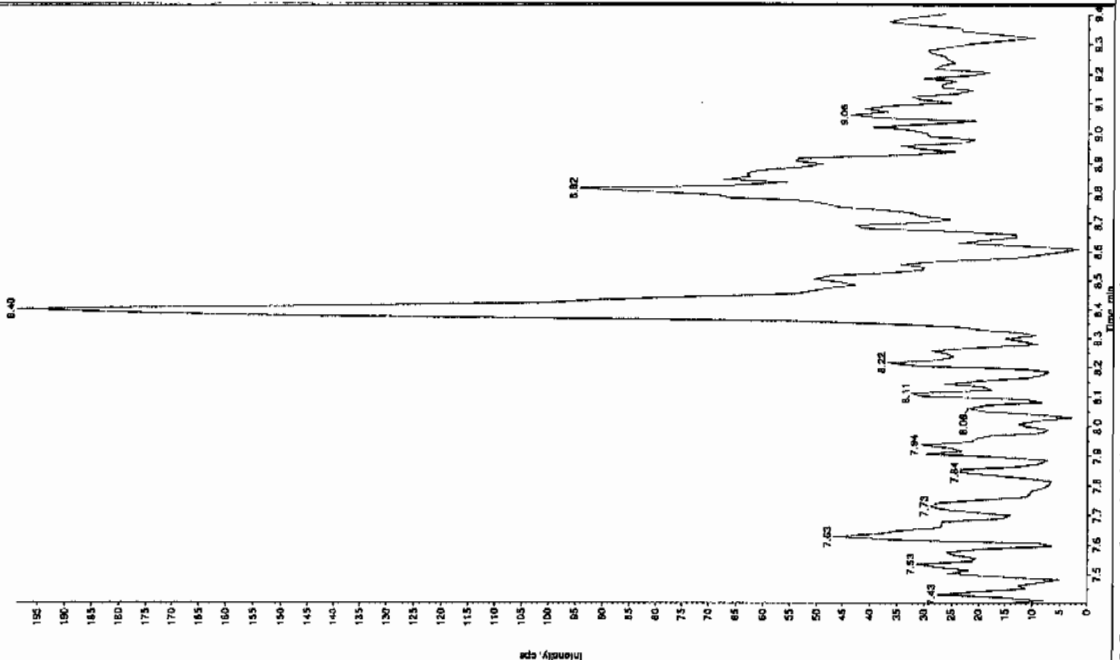
Sample Name: "XIBLX01" Sample ID: "JILLER" File: "EXS02170002.will"
 Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 9:42:02 AM
 Modified: No



Sample Name: "34-Dinitrotoluene" Sample ID: "JILLER" File: "EXS02170002.will"
 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: 2/17/2010
 Acq. Time: 9:42:02 AM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 16-FEB-10 21:04

GEL Data File: EXP0216009a

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	570.463
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	494.232
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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216009a

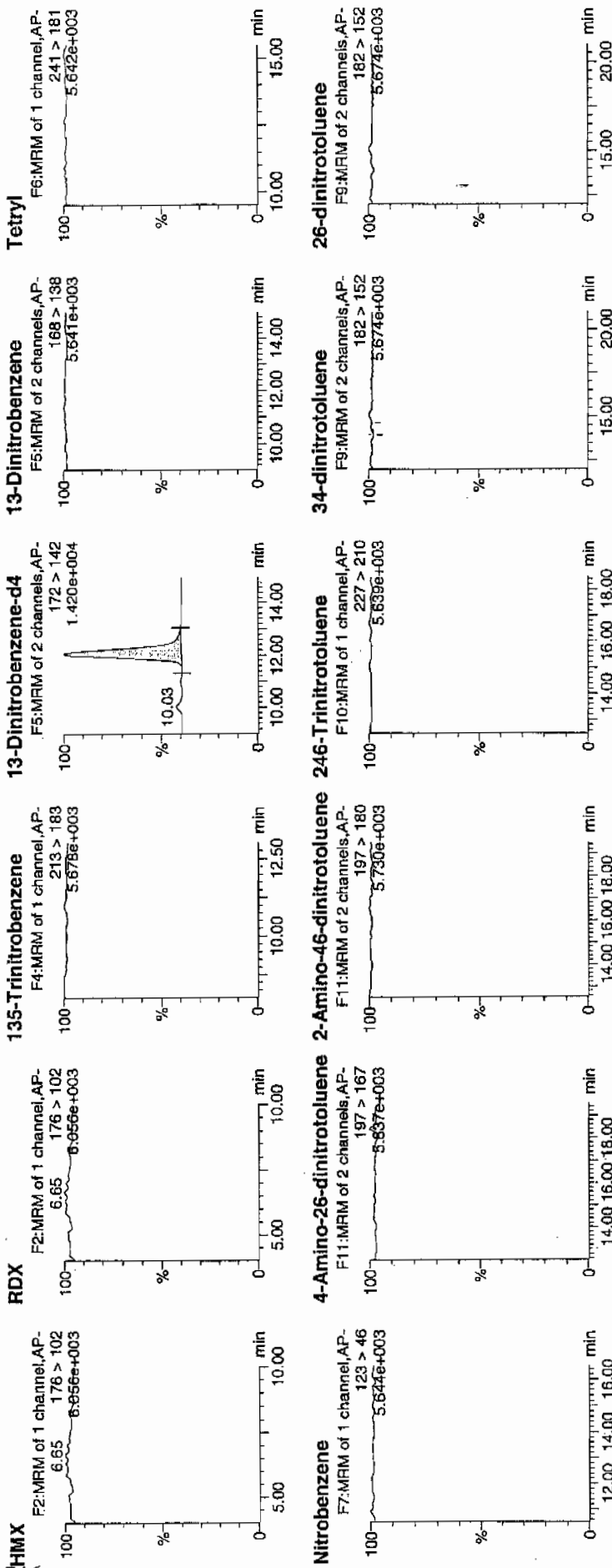
Date: 16-Feb-2010

Time: 21:04:59

ID: XIBLK02

Vial: 1:1,A

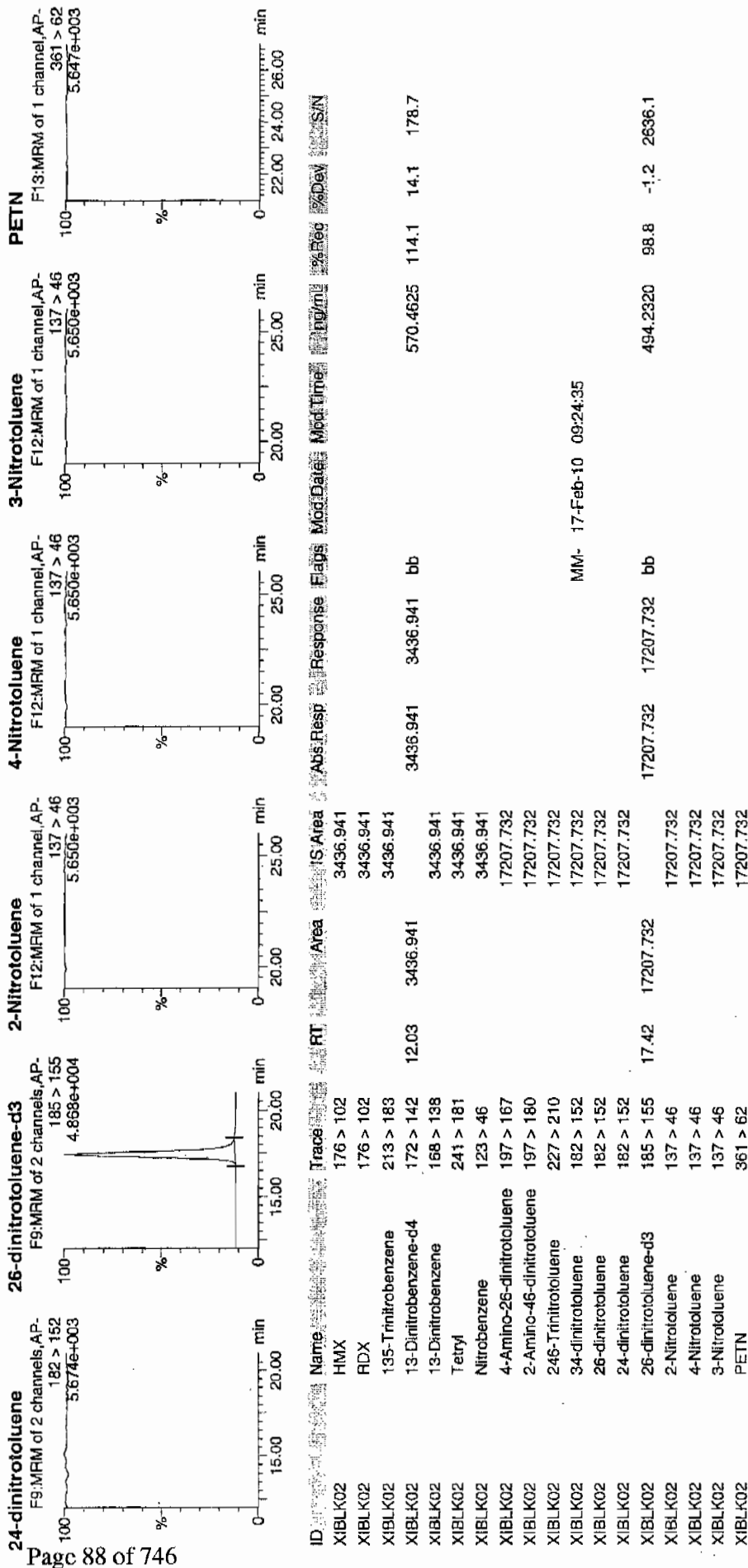
107
2/17/10



4/11/10

Quantify Sample Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 16-FEB-10 22:04

GEL Data File: EXP0216011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L.)
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	445.165
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	575.243

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216011a

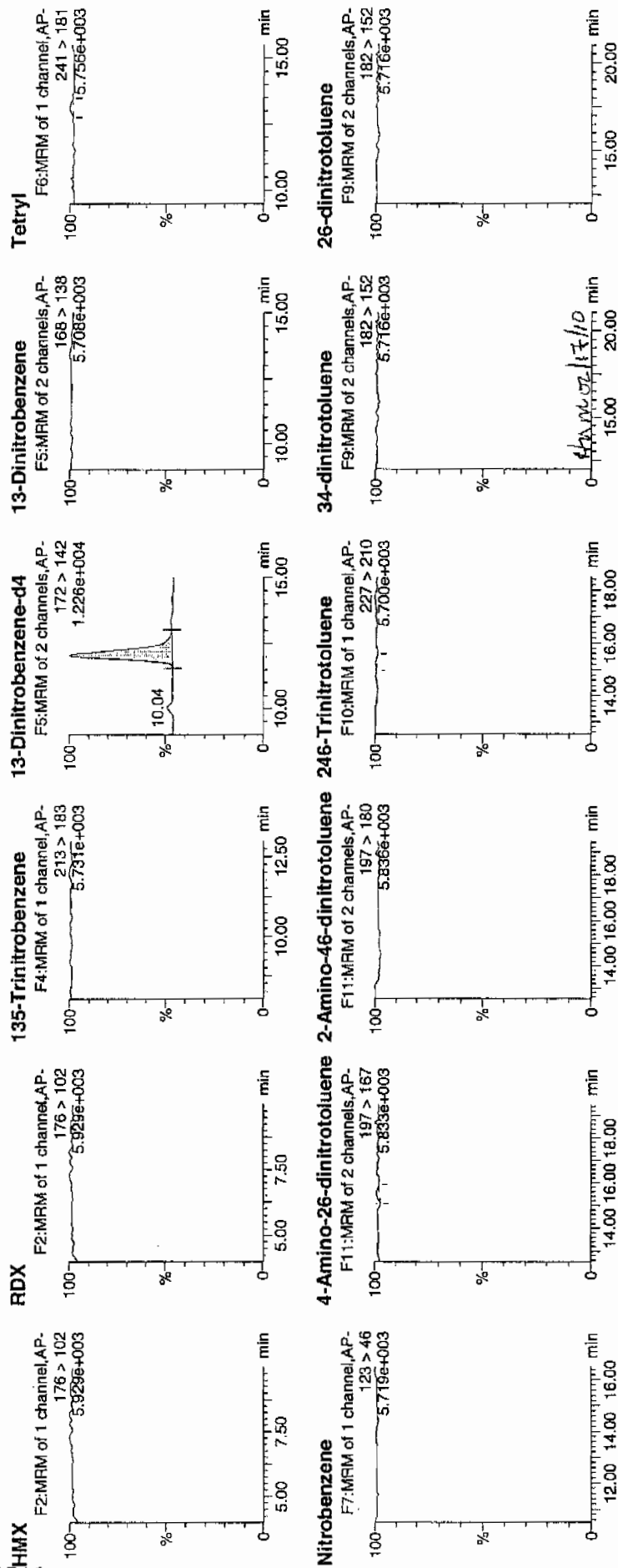
Date: 16-Feb-2010

Time: 22:04:12

ID: XIBLK03

Vial: 1:1,A

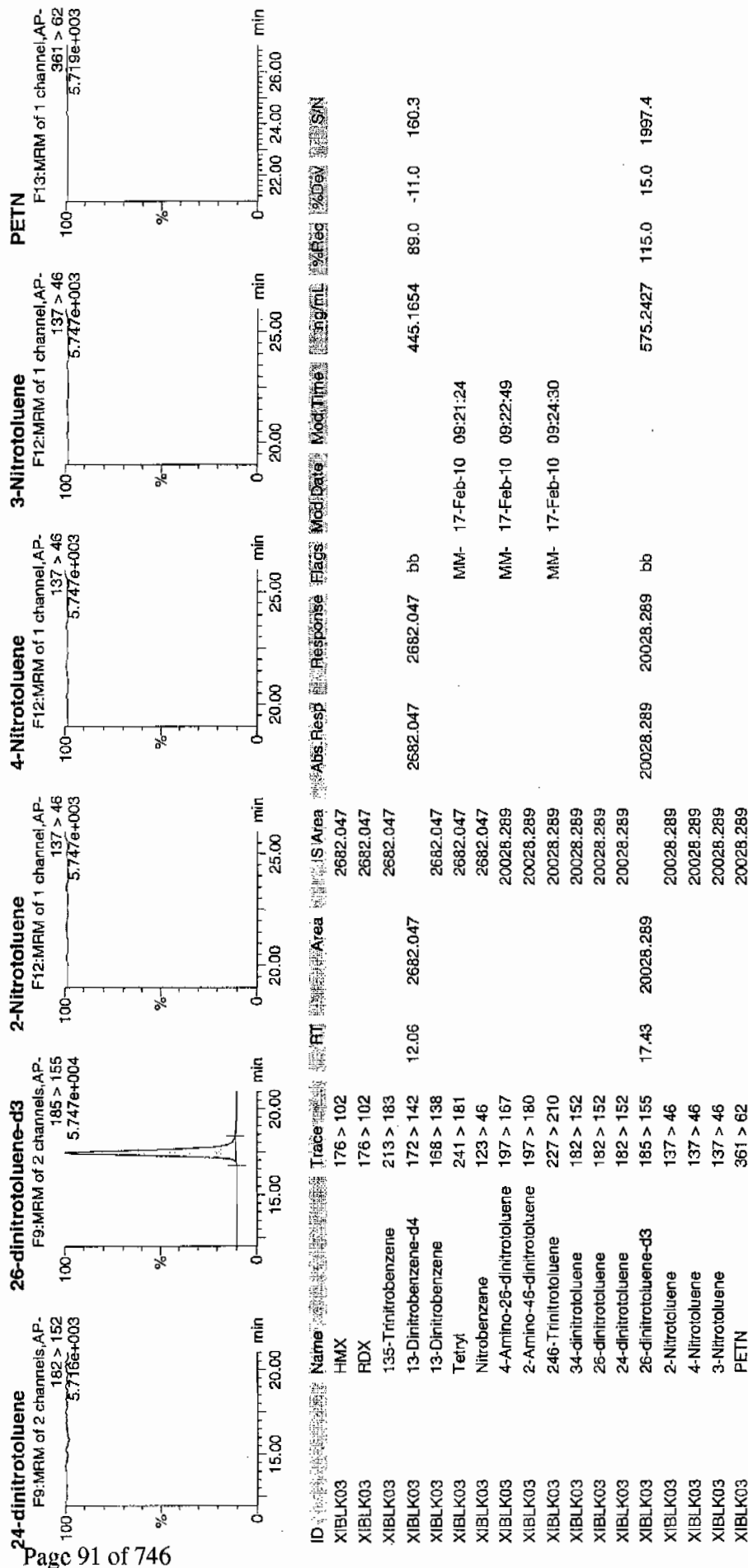
746 of 746



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 17-FEB-10 03:30

GEL Data File: EXP0216022a

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	470.843
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	468.456
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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216022a

Date: 17-Feb-2010

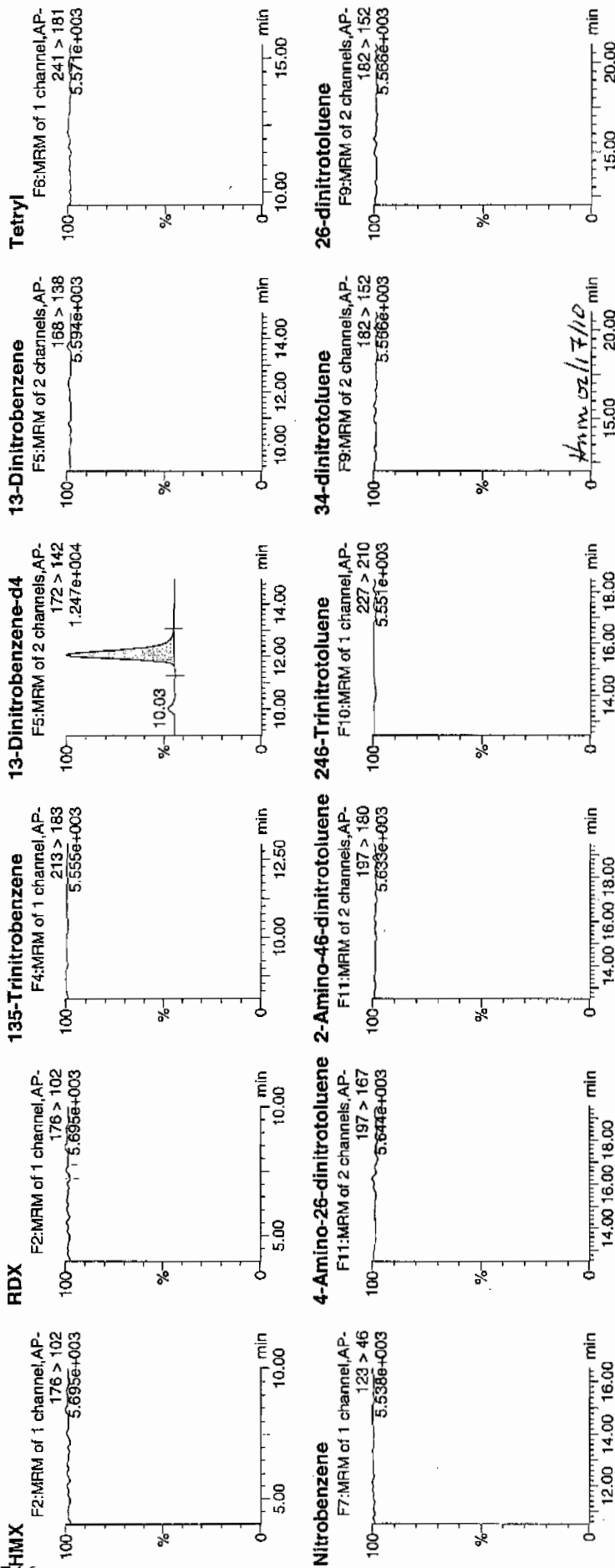
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ID: XIBLK04

Vial: 1:1,A

746

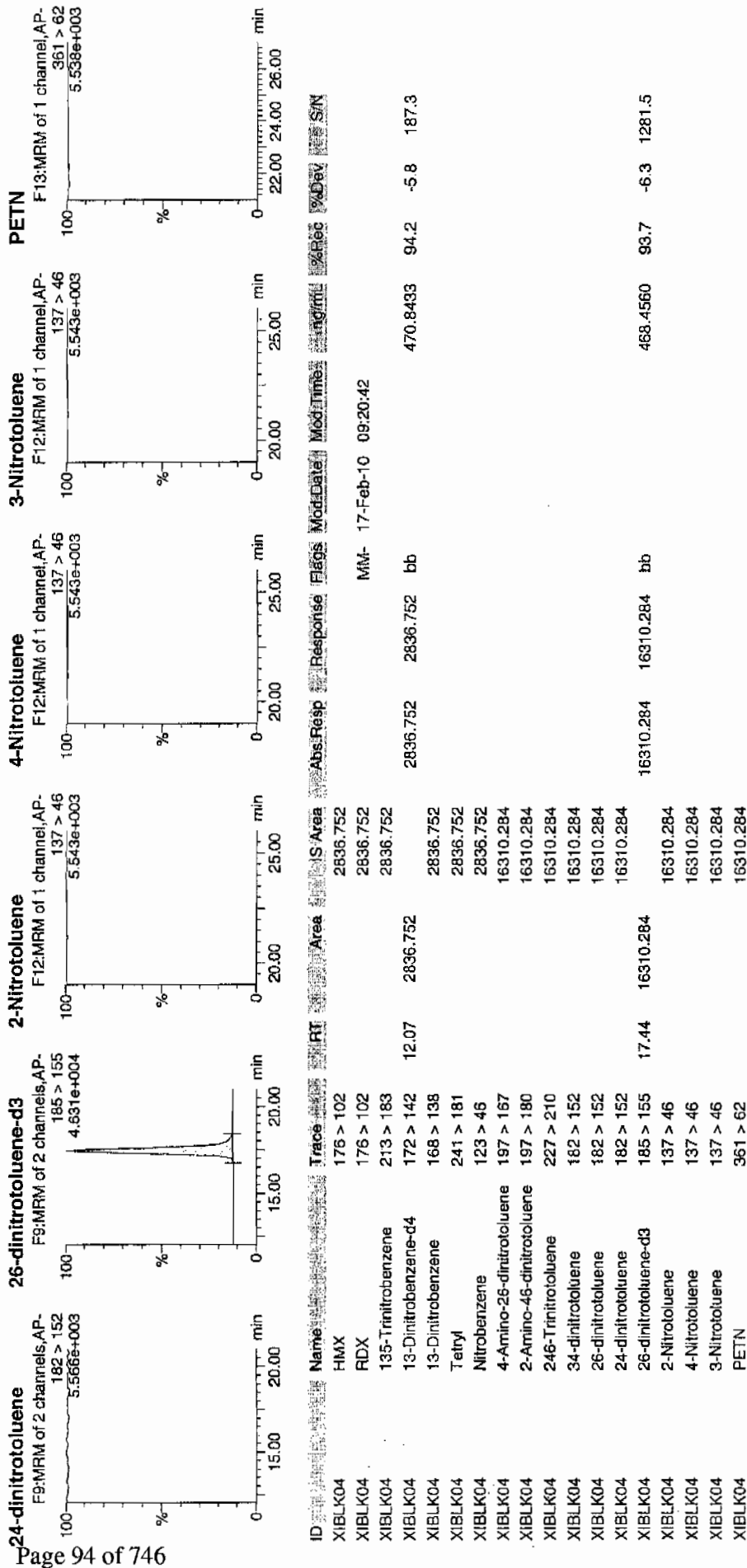
MT
2/17/10



Printed: Wed Feb 17 10:00:54 2010, Page 44 of 59

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 17-FEB-10 06:28

GEL Data File: EXP0216028a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Dinitrotoluene-d3	500	440.83
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	443.214
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0

Printed: Wed Feb 17 10:00:54 2010, Page 55 of 59

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216028a

Date: 17-Feb-2010

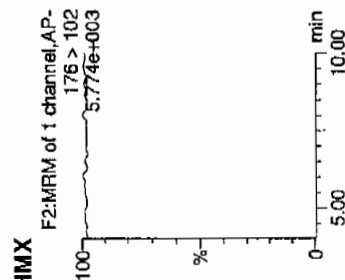
Time: 06:28:06

ID: XIBLK05

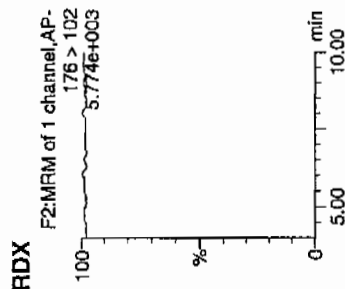
Vial: 1:1.A

4/11/10
2/17/10

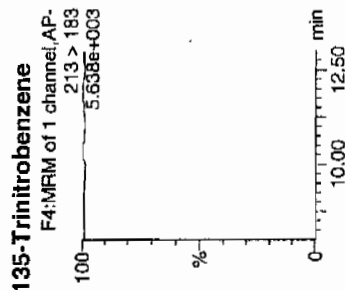
HMX



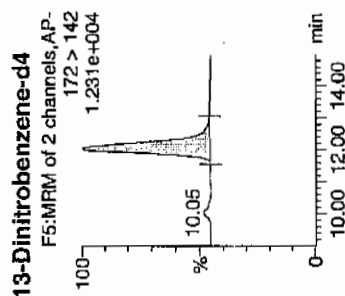
RDX



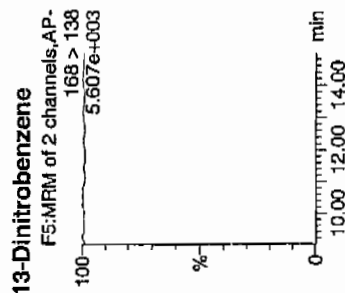
135-Trinitrobenzene



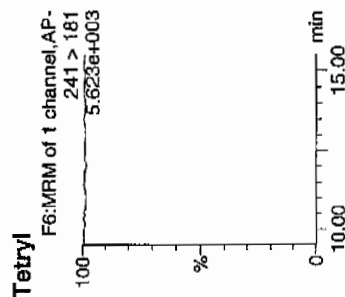
13-Dinitrobenzene-d4



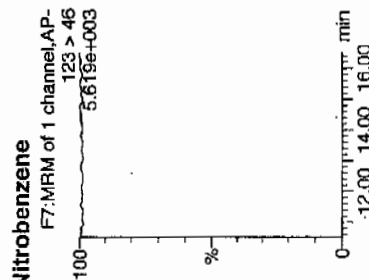
13-Dinitrobenzene



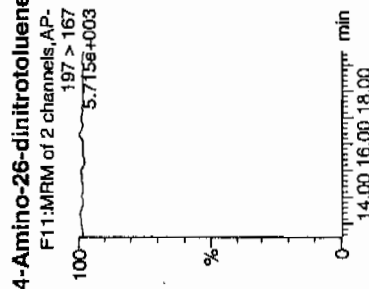
Tetryl



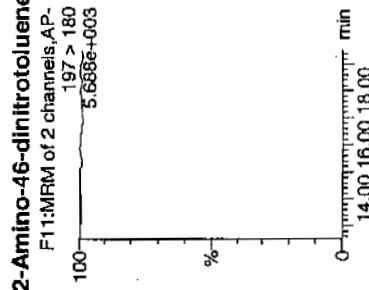
Nitrobenzene



4-Amino-26-dinitrotoluene



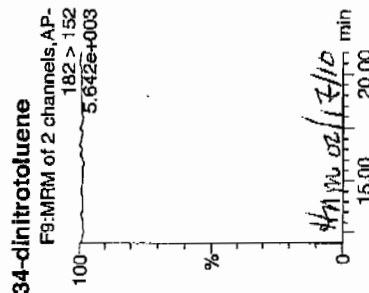
2-Amino-46-dinitrotoluene



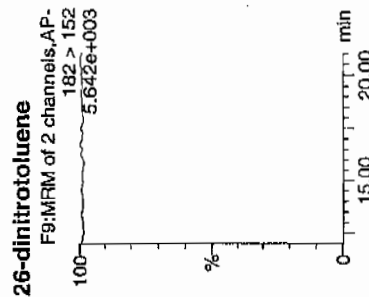
246-Trinitrotoluene



34-dinitrotoluene



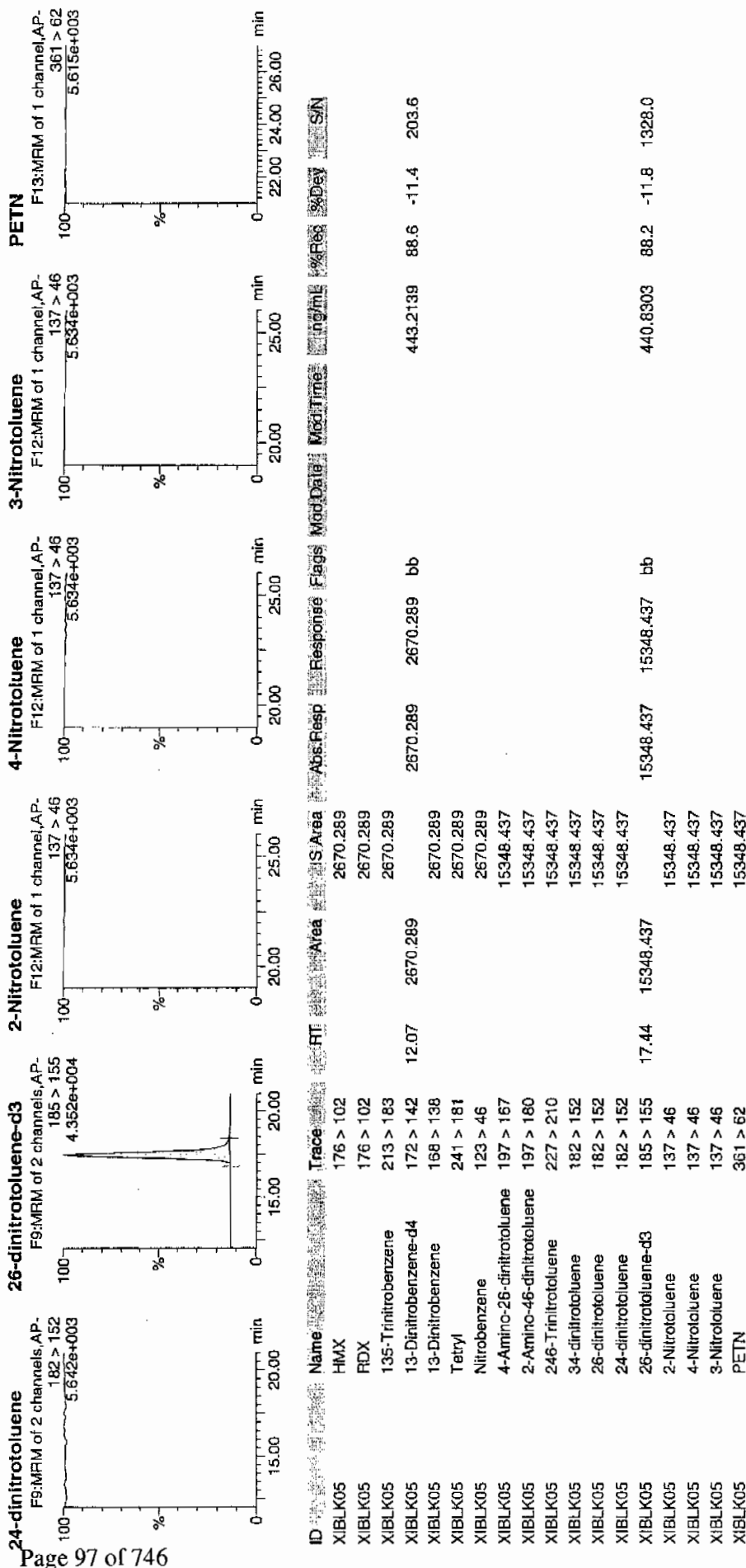
26-dinitrotoluene



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 17-FEB-10 12:24

GEL Data File: EXP0216040a

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	431.007
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	413.713
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\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216040a

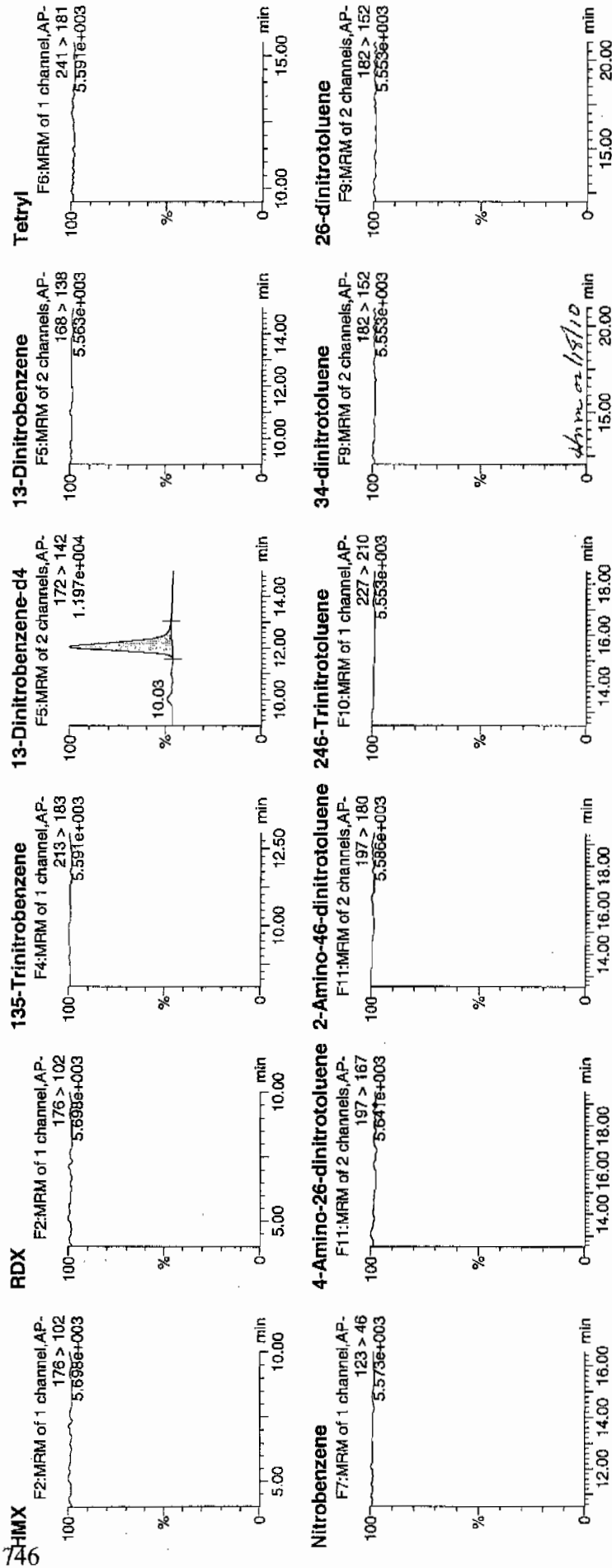
Date: 17-Feb-2010

Time: 12:24:42

ID: XIBLK06

Vial: 1:1,A

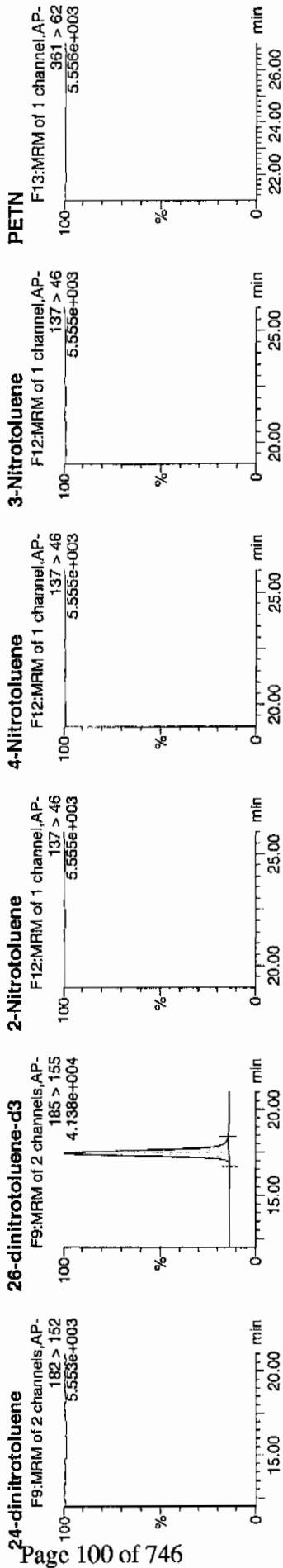
Handwritten: 1/18/10



Printed: Thu Feb 18 08:53:51 2010, Page 22 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	mg/ml	%Rec	%Dev	S/N
XIBLK06	HMX	176 > 102		2596.742	2596.742									
XIBLK06	RDX	176 > 102		2596.742	2596.742									
XIBLK06	135-Trinitrobenzene	213 > 183		2596.742	2596.742									
XIBLK06	13-Dinitrobenzene-d4	172 > 142	12.03	2596.742	2596.742									
XIBLK06	13-Dinitrobenzene	168 > 138		2596.742	2596.742									
XIBLK06	Tetryl	241 > 181		2596.742	2596.742									
XIBLK06	Nitrobenzene	123 > 46		2596.742	2596.742									
XIBLK06	4-Amino-26-dinitrotoluene	197 > 167		2596.742	2596.742									
XIBLK06	2-Amino-48-dinitrotoluene	197 > 180		14404.283	14404.283									
XIBLK06	246-Trinitrotoluene	227 > 210		14404.283	14404.283									
XIBLK06	34-dinitrotoluene	182 > 152		14404.283	14404.283									
XIBLK06	26-dinitrotoluene	182 > 152		14404.283	14404.283									
XIBLK06	24-dinitrotoluene	182 > 152		14404.283	14404.283									
XIBLK06	26-dinitrotoluene-d3	185 > 155	17.44	14404.283	14404.283									
XIBLK06	2-Nitrotoluene	137 > 46		14404.283	14404.283									
XIBLK06	4-Nitrotoluene	137 > 46		14404.283	14404.283									
XIBLK06	3-Nitrotoluene	137 > 46		14404.283	14404.283									
XIBLK06	PETN	361 > 62		14404.283	14404.283									
						2596.742	2596.742	bb			431.0065	86.2	-13.8	277.6
						14404.283	14404.283	bb			413.7128	82.7	-17.3	1514.9

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 17-FEB-10 18:50

GEL Data File: EXP0216053a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	500.527
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
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	517.203
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0

Printed: Thu Feb 18 08:53:51 2010, Page 47 of 103

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216053a

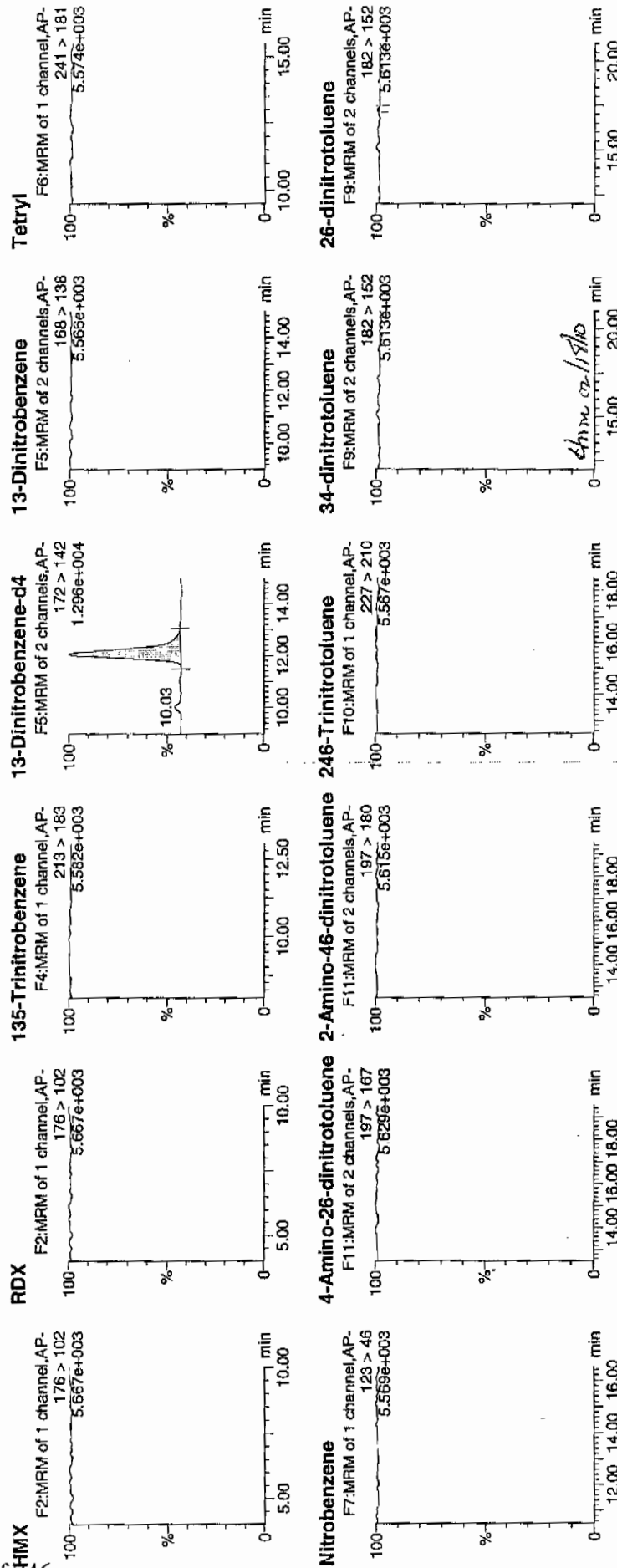
Date: 17-Feb-2010

Time: 18:50:03

ID: XIBLK07

Vial: 1:1,A

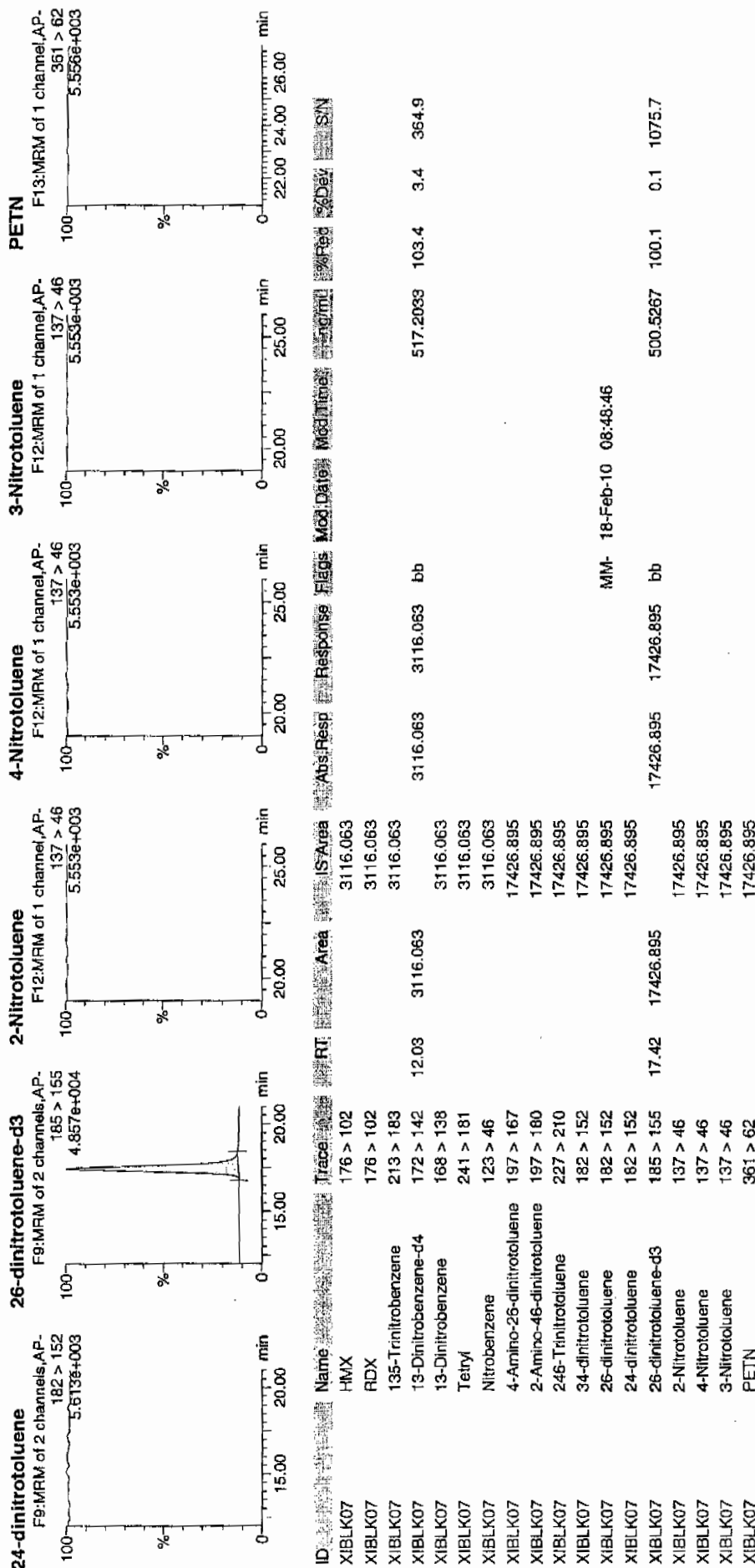
MM
1/18/10



Printed: Thu Feb 18 08:53:51 2010, Page 48 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 18-FEB-10 01:14

GEL Data File: EXP0216066a

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	555.508
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	477.827
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA1.qid, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216066a

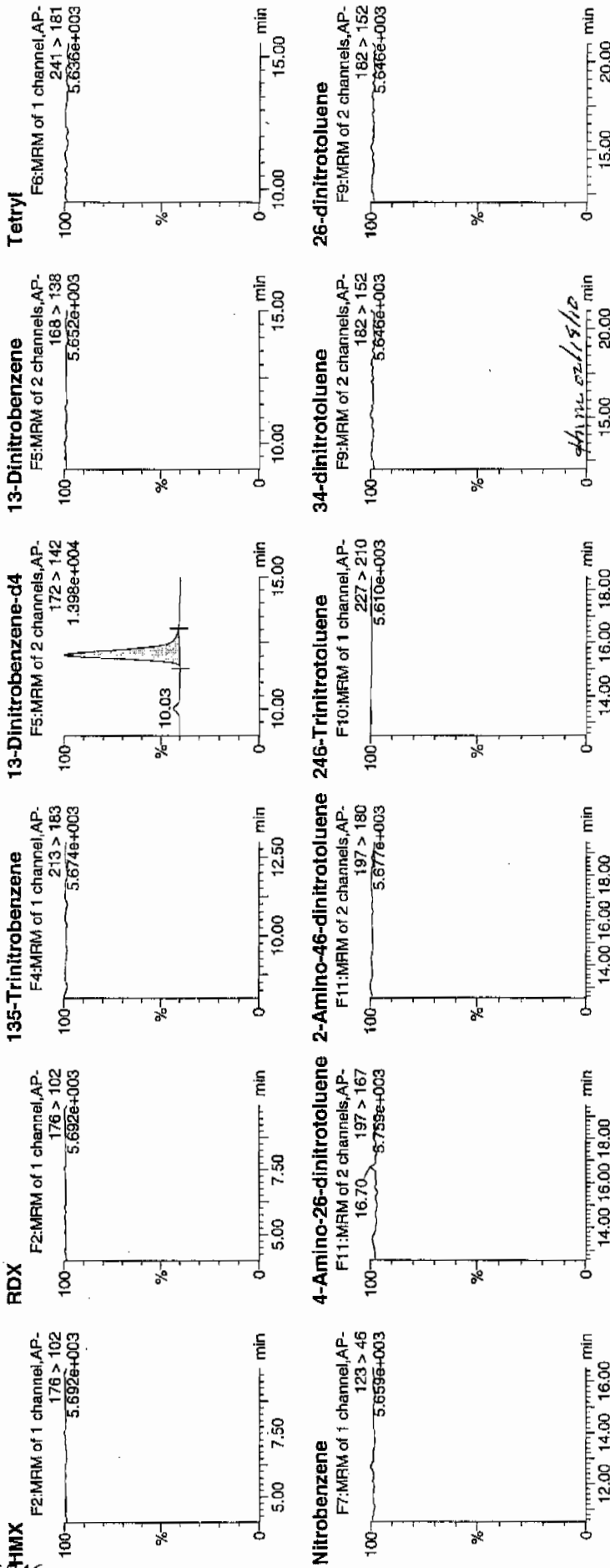
Date: 18-Feb-2010

Time: 01:14:55

ID: XIBLK08

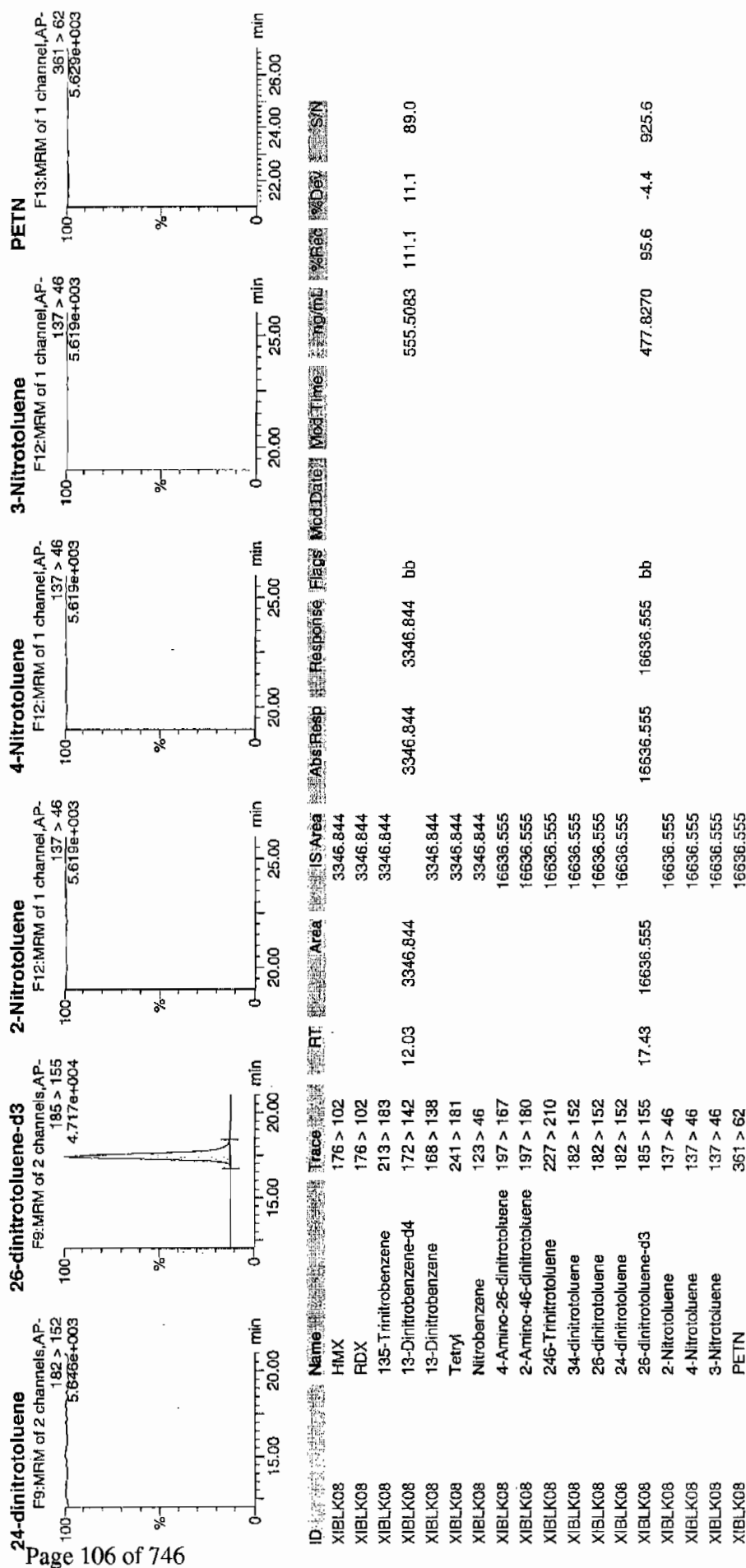
Vial: 1:1,A

of 746



Quantity Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 18-FEB-10 02:43

GEL Data File: EXP0216069a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	533.187
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	509.45
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216069a

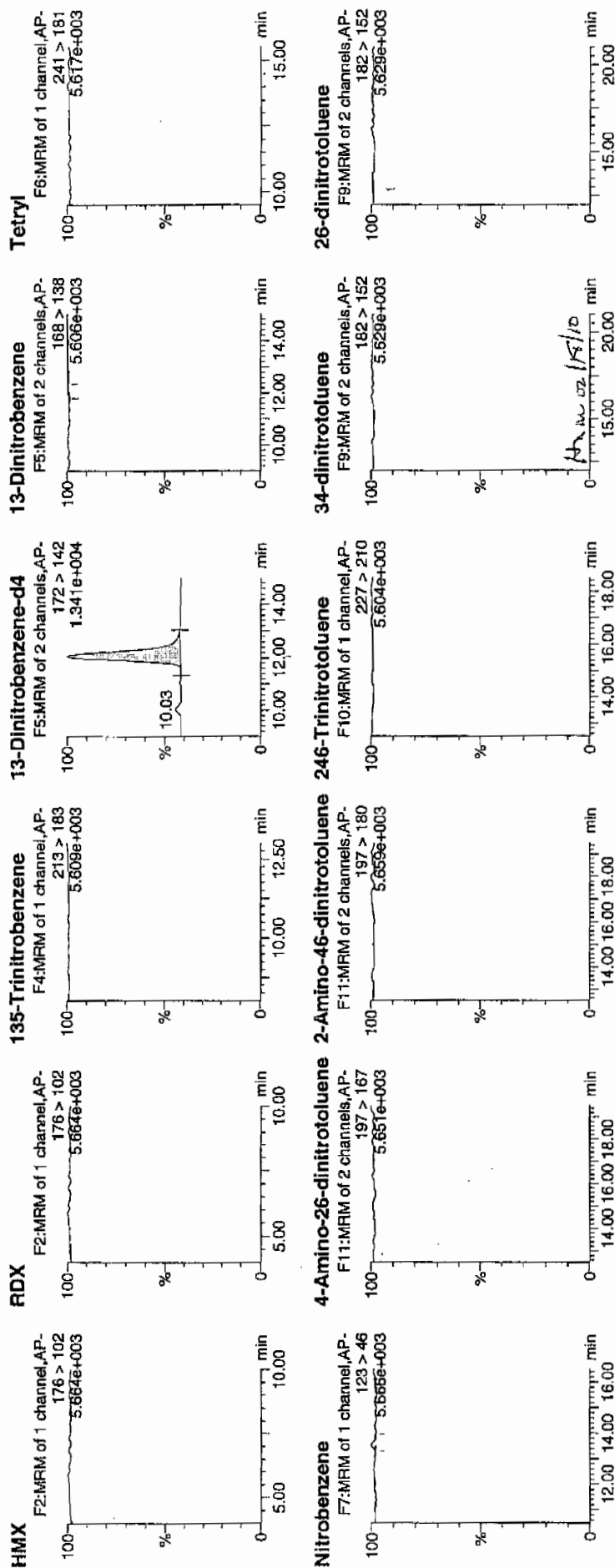
Date: 18-Feb-2010

Time: 02:43:41

ID: XIBLK09

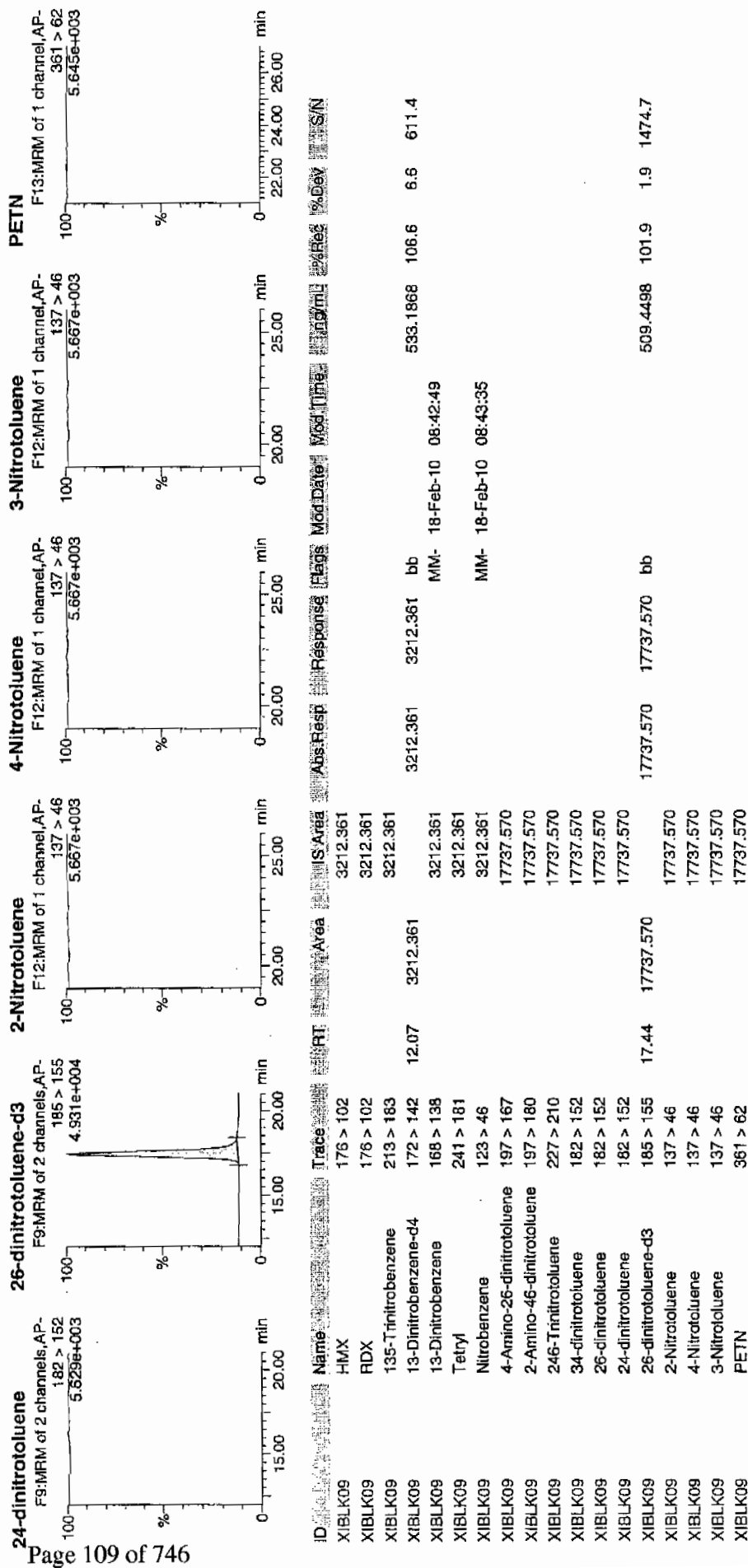
Vial: 1:1,F

11/13/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 18-FEB-10 07:40

GEL Data File: EXP0216079a

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	480.33
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	458.446
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\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216079a

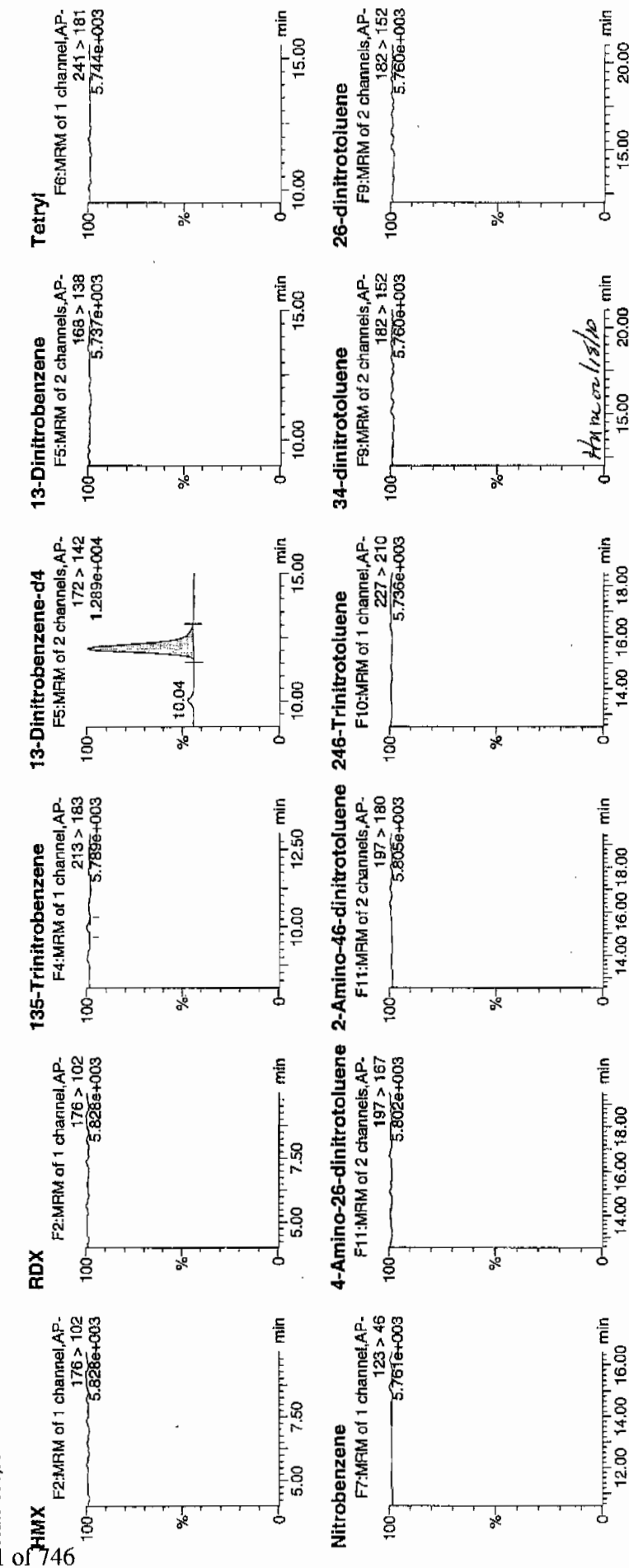
Date: 18-Feb-2010

Time: 07:40:00

ID: XIBLK10

Vial: 1:1,A

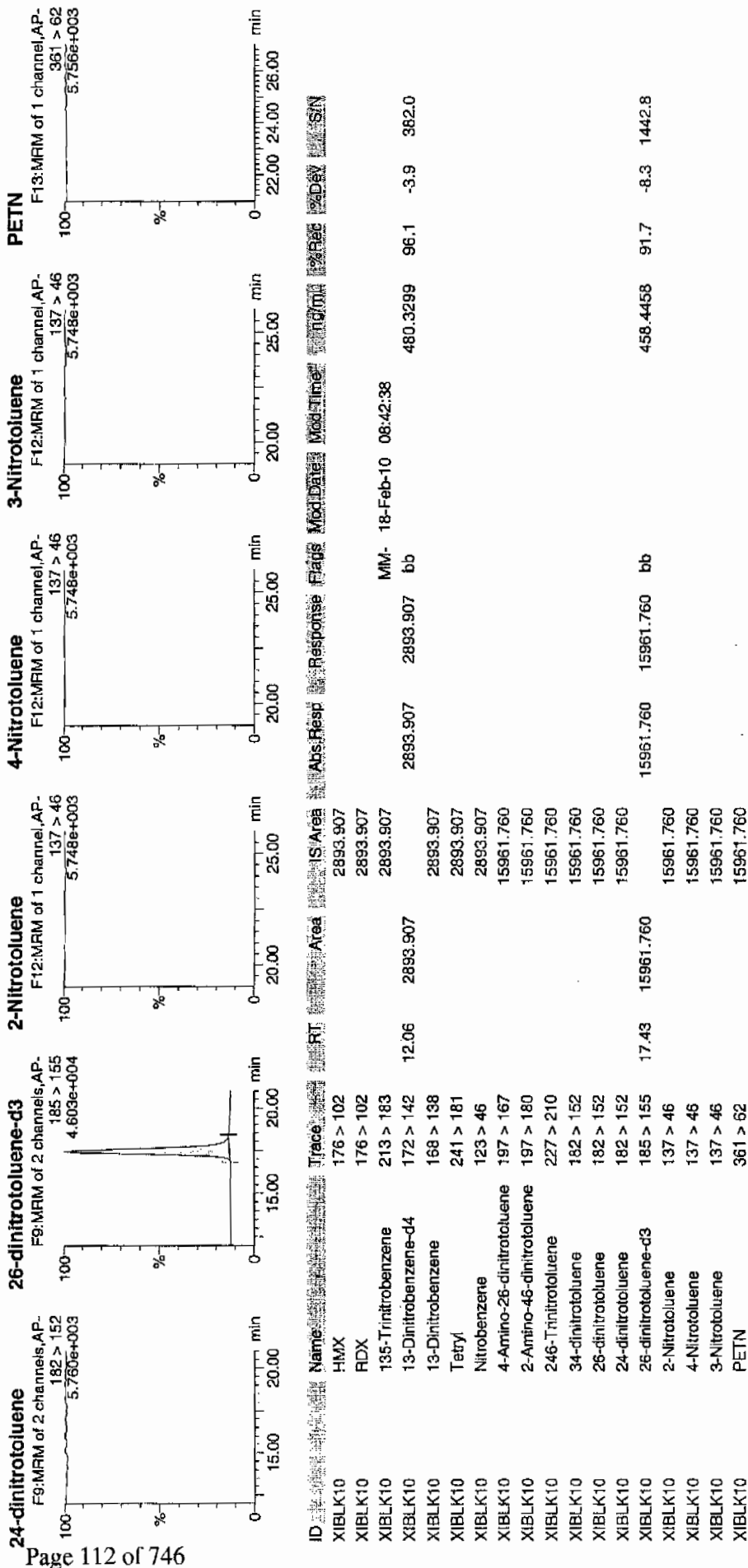
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2/18/10



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK11

Analysis Date: 18-FEB-10 13:05

GEL Data File: EXP0216090a

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	455.405
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	434.95
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qtd, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216090a

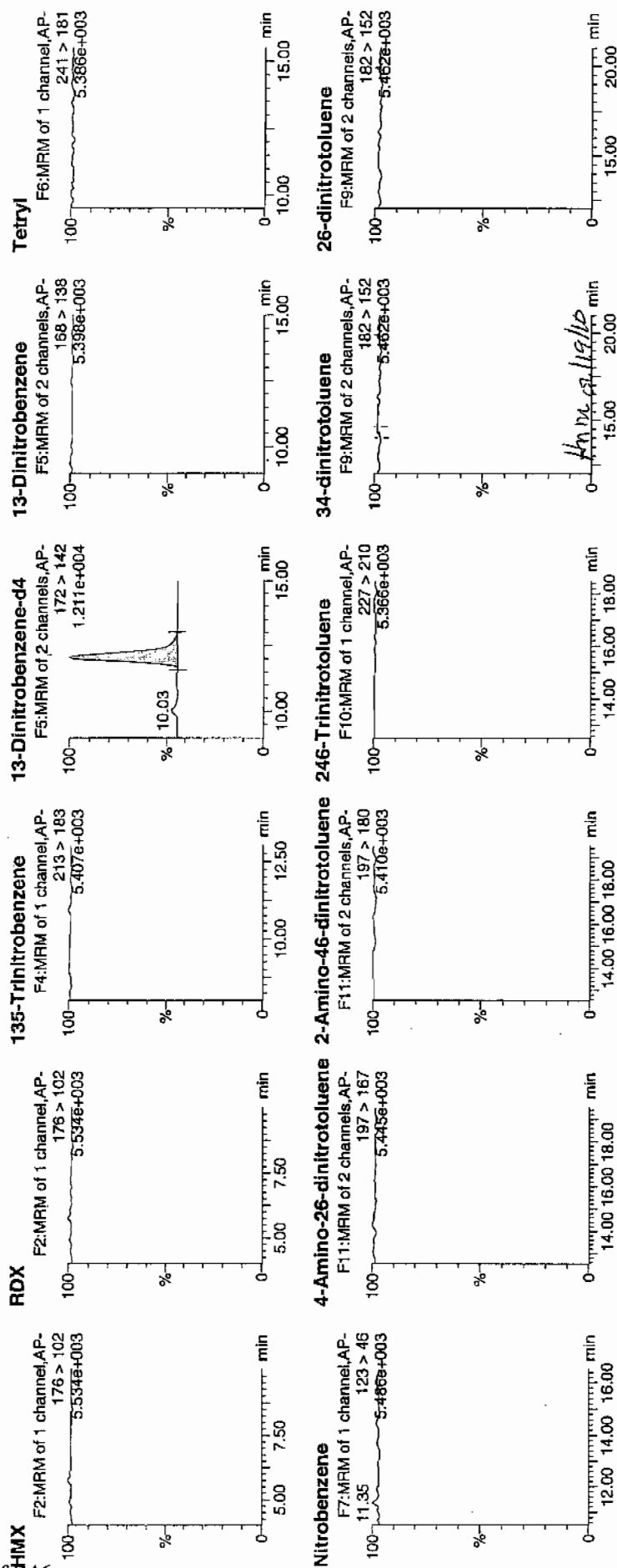
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Time: 13:05:54

ID: XIBLK11

Vial: 1:1,A

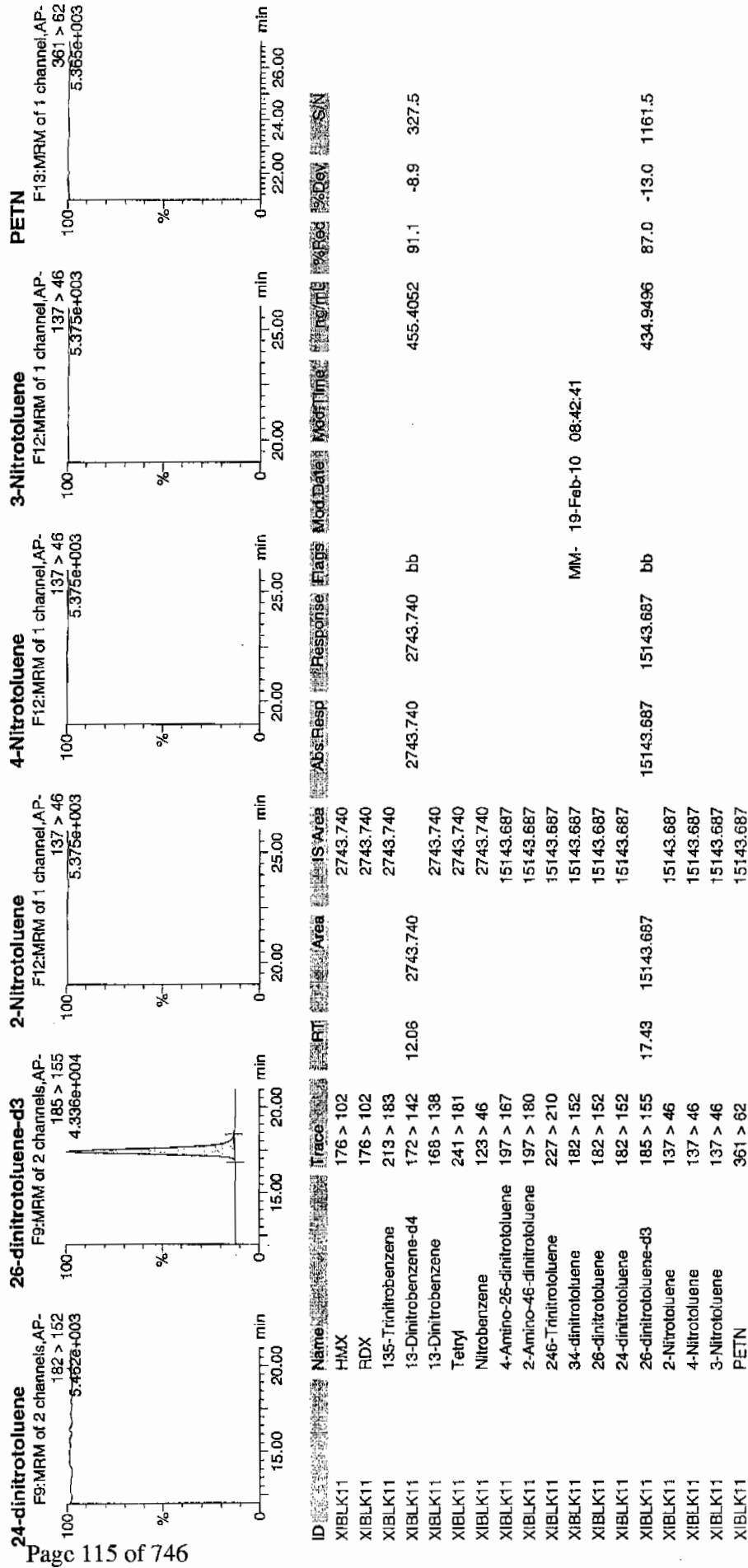
14 of 746



Printed: Fri Feb 19 08:50:21 2010, Page 20 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK12

Analysis Date: 18-FEB-10 19:00

GEL Data File: EXP0216102a

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
Tetryl	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	463.109
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	440.854
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

Printed: Fri Feb 19 08:50:21 2010, Page 43 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216102a

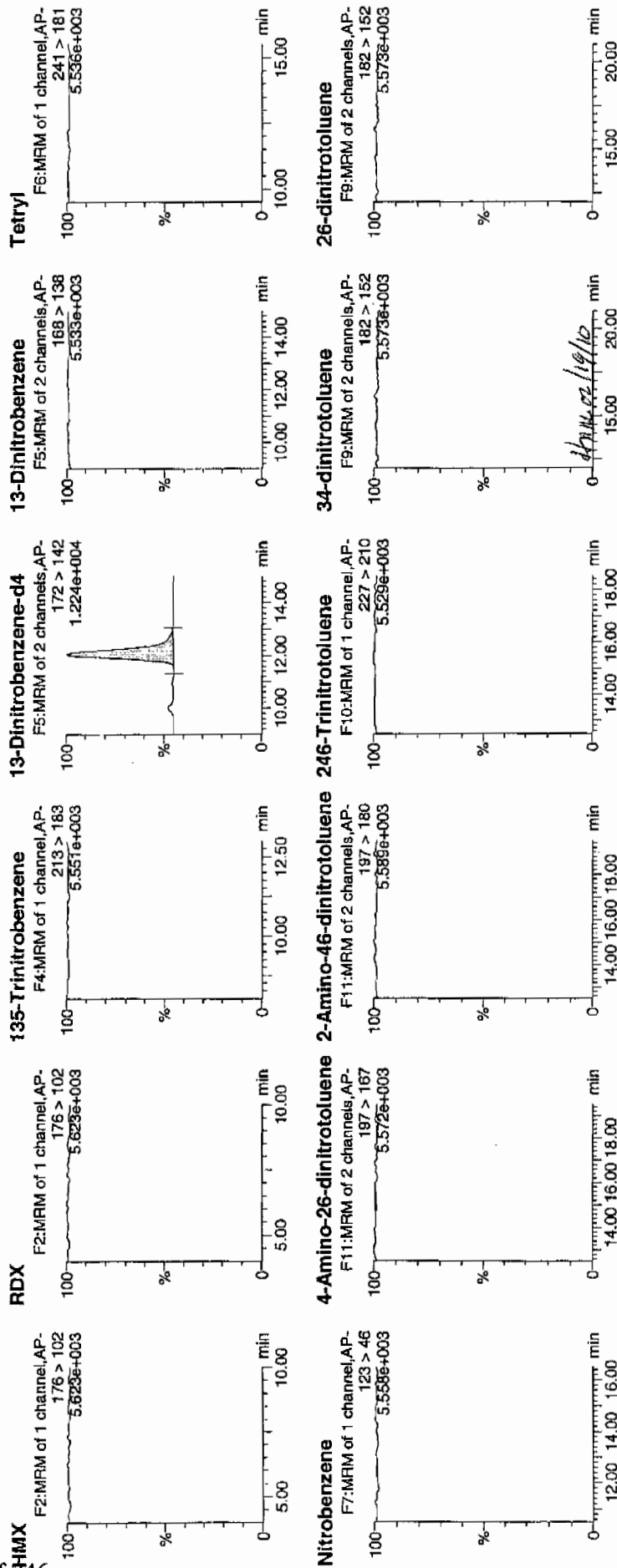
Date: 18-Feb-2010

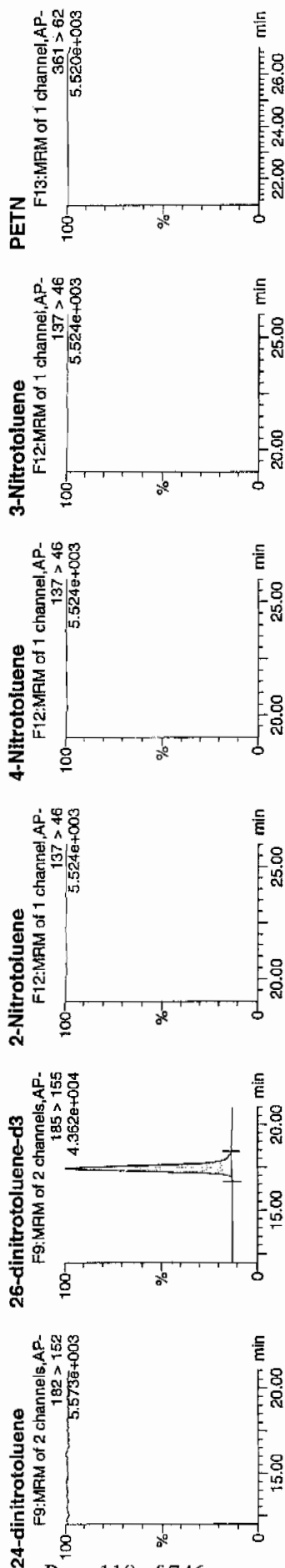
Time: 19:00:50

ID: XIBLK12

Vial: 1:1, A

MTT
2/19/10





ID	Name	Trace	RT	S Area	Abs Resp	Response	Flags	Mod Date	Time	%Sec	%Dev
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XIBLK12	RDX	176 > 102		2790.156							
XIBLK12	135-Trinitrobenzene	213 > 183		2790.156							
XIBLK12	13-Dinitrobenzene-d4	172 > 142	12.03	2790.156	2790.156	2790.156	bb		463.1093	92.6	-7.4
XIBLK12	13-Dinitrobenzene	168 > 138									580.1
Tetryl		241 > 181		2790.156							
Nitrobenzene		123 > 46		2790.156							
XIBLK12	4-Amino-26-dinitrotoluene	197 > 167		15349.260							
XIBLK12	2-Amino-46-dinitrotoluene	197 > 180		15349.260							
XIBLK12	246-Trinitrotoluene	227 > 210		15349.260							
XIBLK12	34-dinitrotoluene	182 > 152		15349.260							
XIBLK12	26-dinitrotoluene	182 > 152		15349.260							
XIBLK12	24-dinitrotoluene	182 > 152		15349.260							
XIBLK12	26-dinitrotoluene-d3	185 > 155	17.42	15349.260	15349.260	15349.260	bb		440.8539	88.2	-11.8
XIBLK12	2-Nitrotoluene	137 > 46		15349.260							1191.0
XIBLK12	4-Nitrotoluene	137 > 46		15349.260							
XIBLK12	3-Nitrotoluene	137 > 46		15349.260							
XIBLK12	PETN	361 > 62		15349.260							

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK13

Analysis Date: 19-FEB-10 01:24

GEL Data File: EXP0216115a

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	480.924
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	485.557
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\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

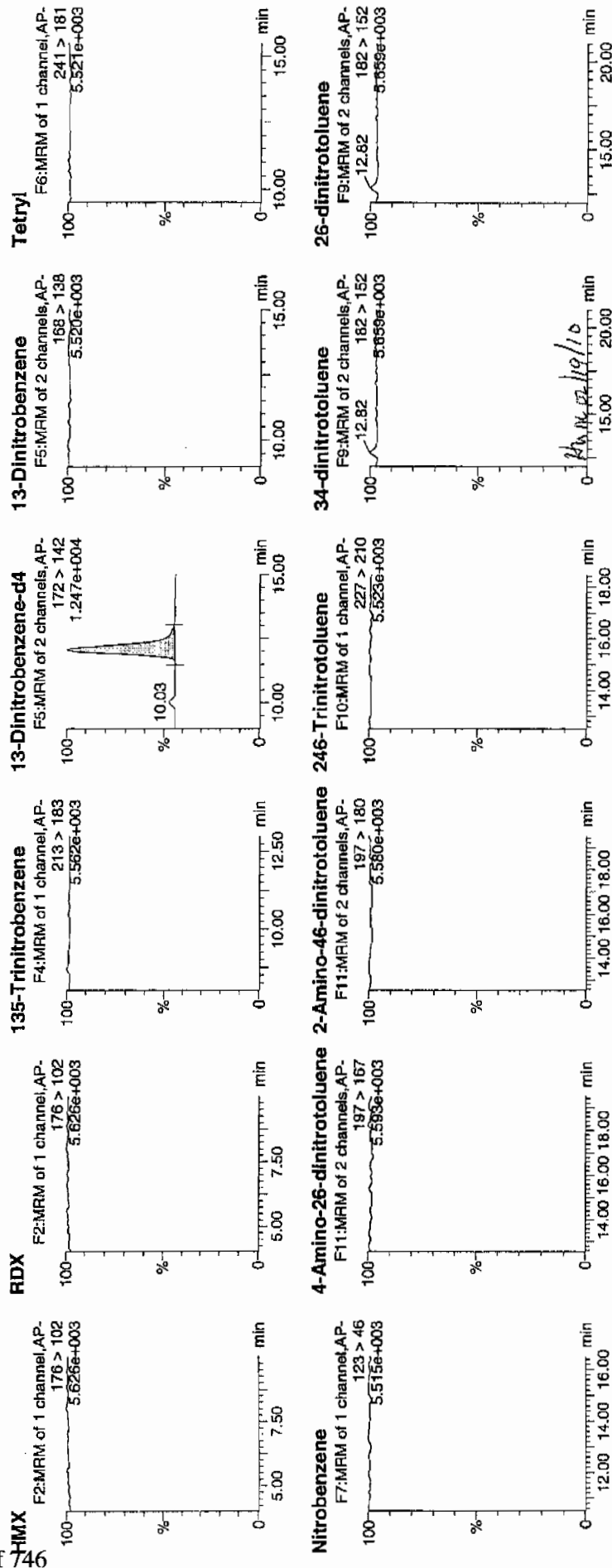
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Date: 19-Feb-2010

Time: 01:24:51

ID: XIBLK13

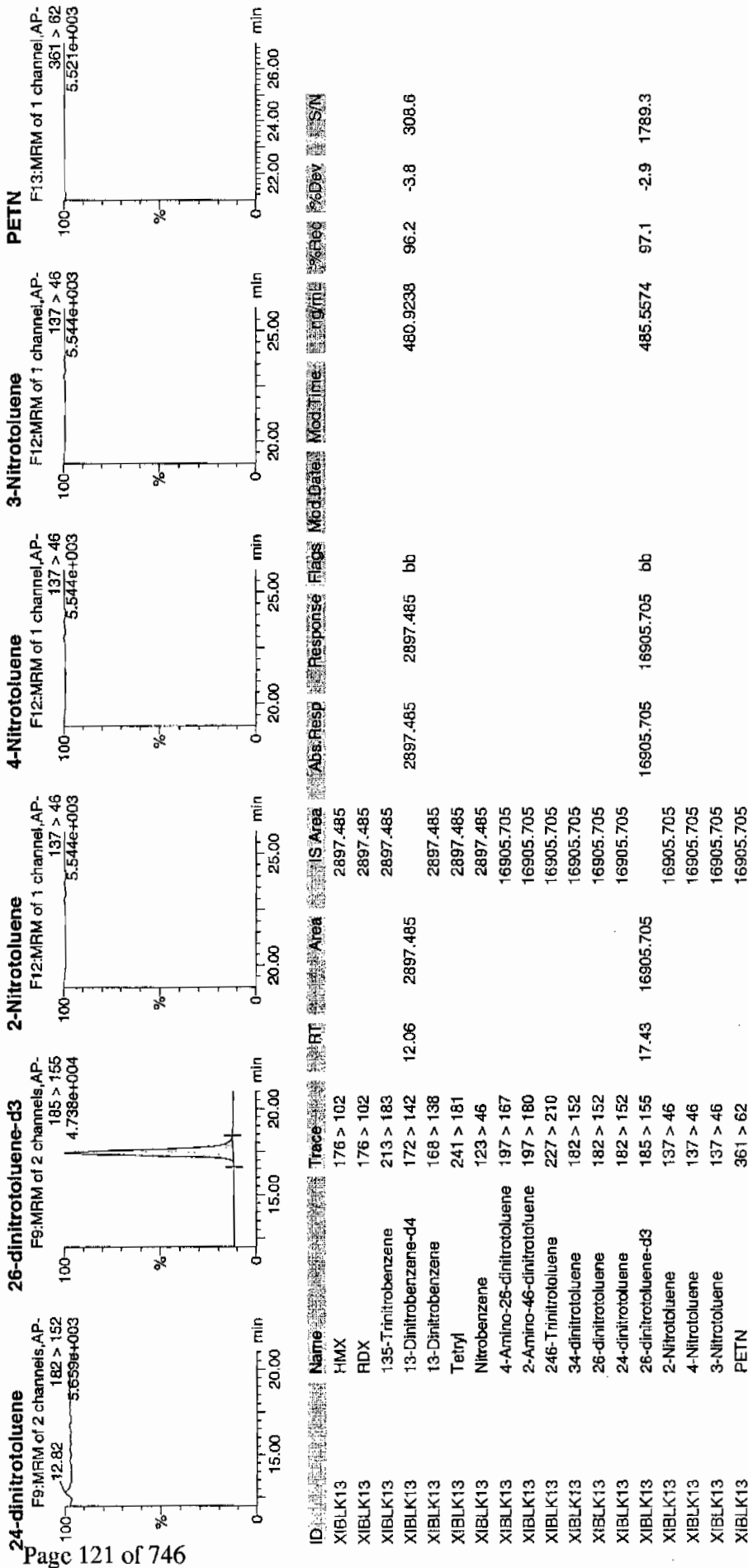
Vial: 1:1,A



Printed: Fri Feb 19 08:50:21 2010, Page 70 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK14

Analysis Date: 19-FEB-10 07:21

GEL Data File: EXP0216127a

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	437.668
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	437.697
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\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216127a

Date: 19-Feb-2010

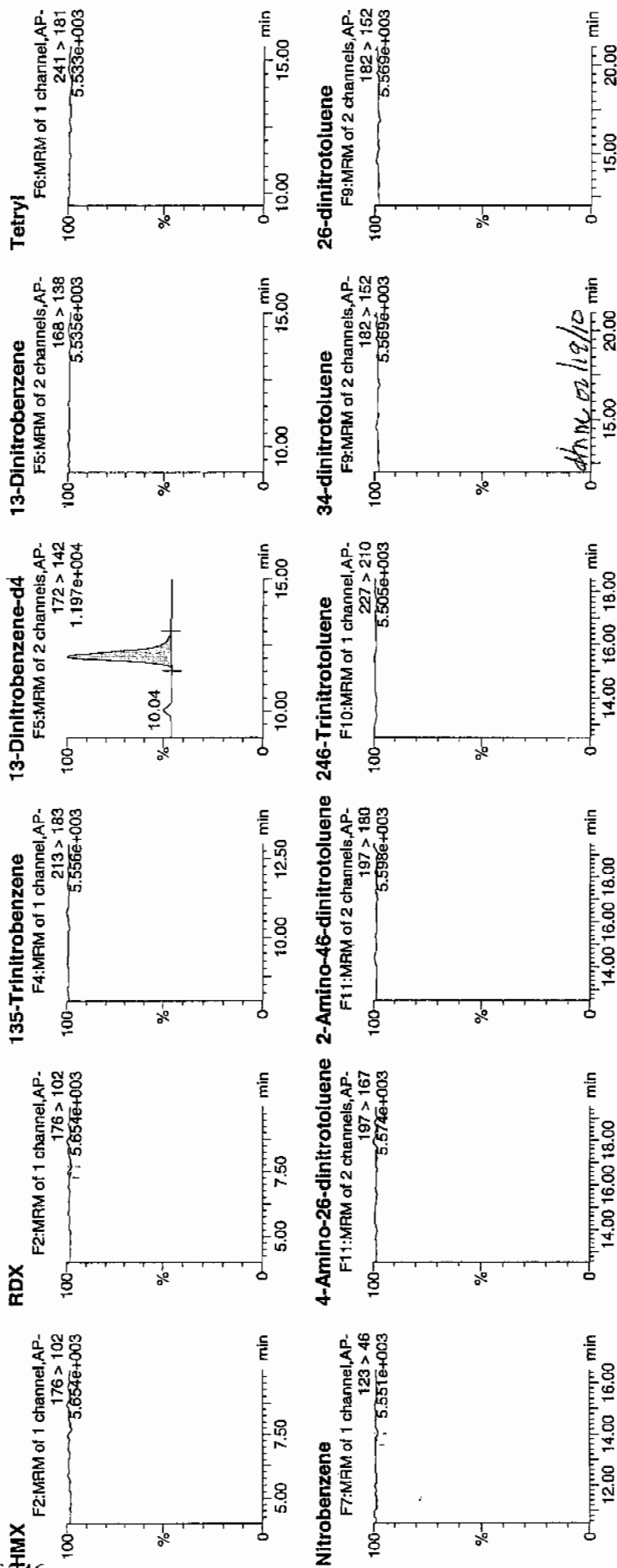
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ID: XIBLK14

Vial: 1:1,A

of

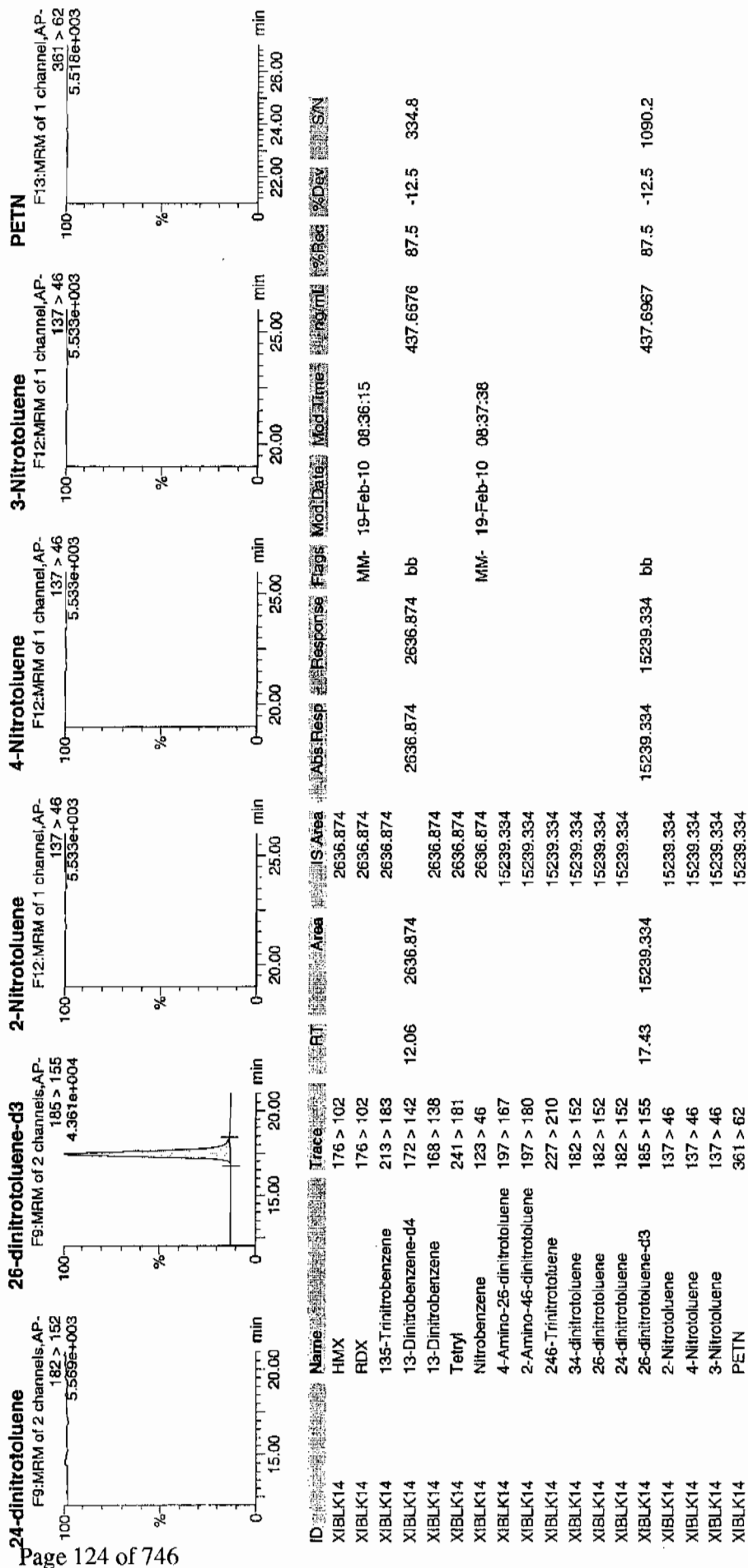
746



Printed: Fri Feb 19 08:50:21 2010, Page 94 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK15

Analysis Date: 19-FEB-10 13:46

GEL Data File: EXP0216140a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	506.457
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	507.824

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216140a

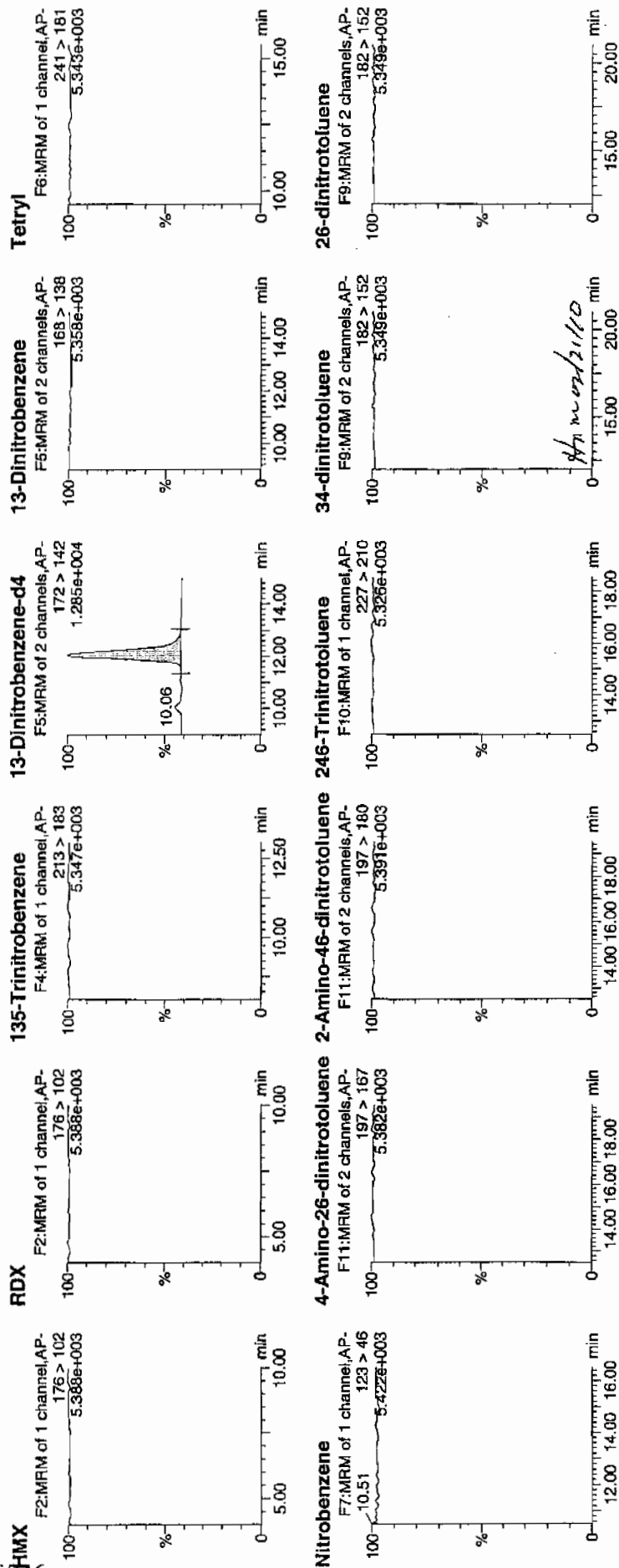
Date: 19-Feb-2010

Time: 13:46:31

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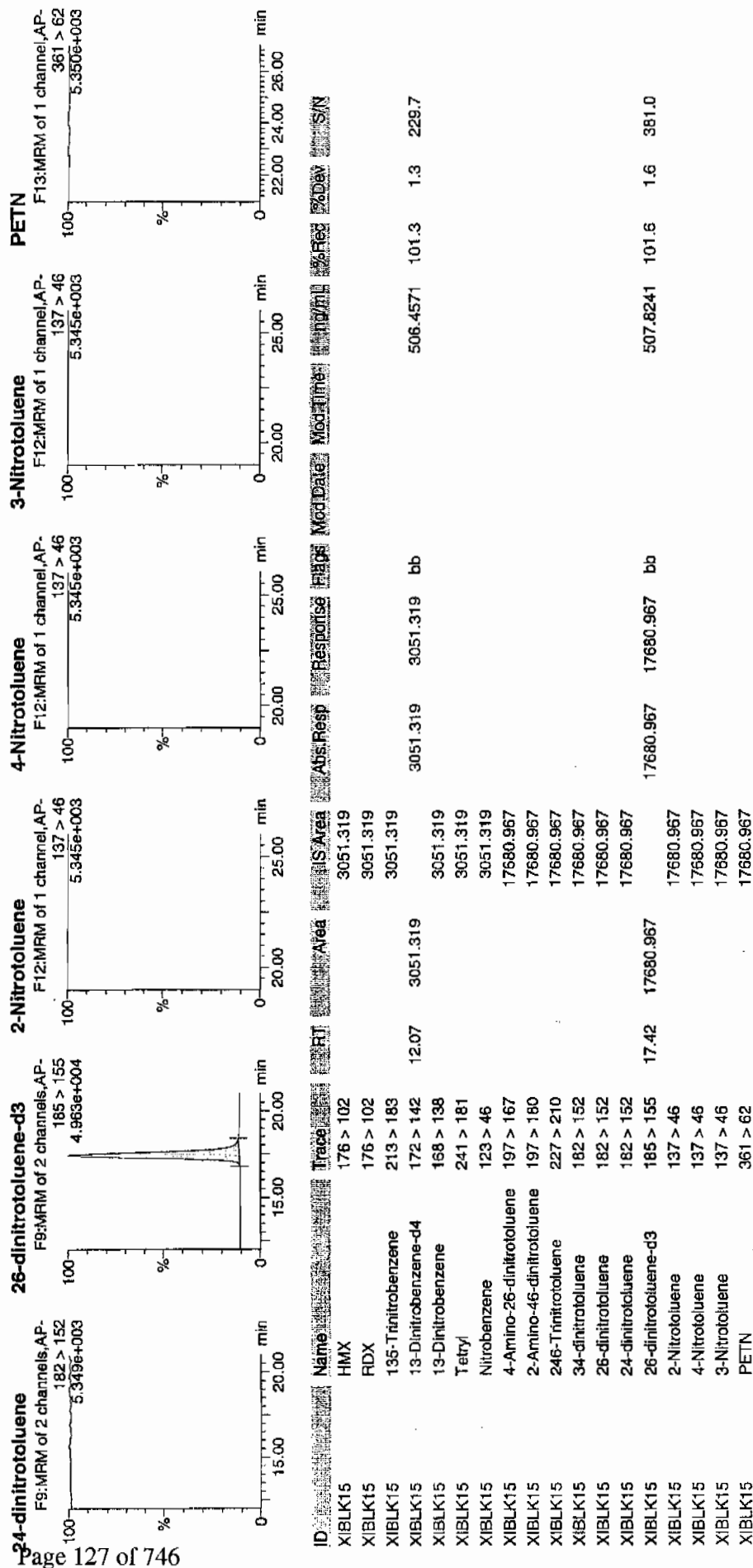
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100%
2/12/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK16

Analysis Date: 19-FEB-10 20:34

GEL Data File: EXP0216153a

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	483.443
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	427.583
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\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216153a

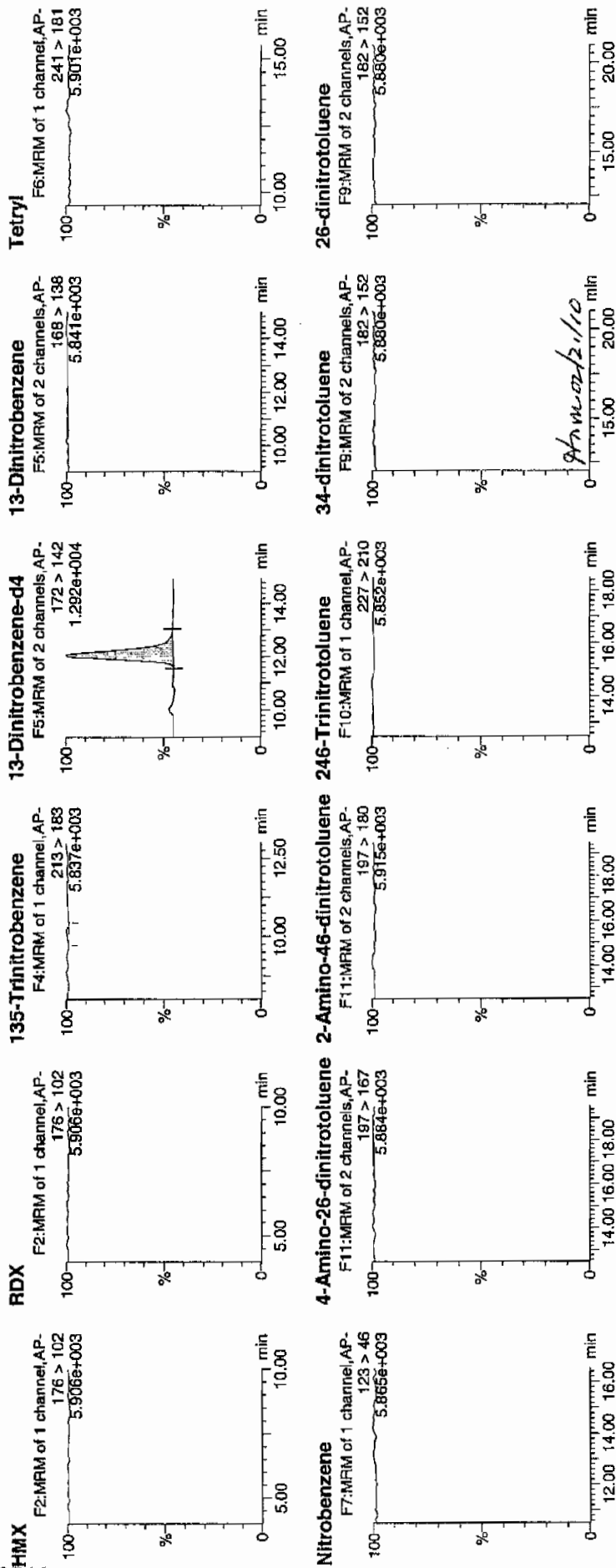
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ID: XIBLK16

Vial: 1:1.A

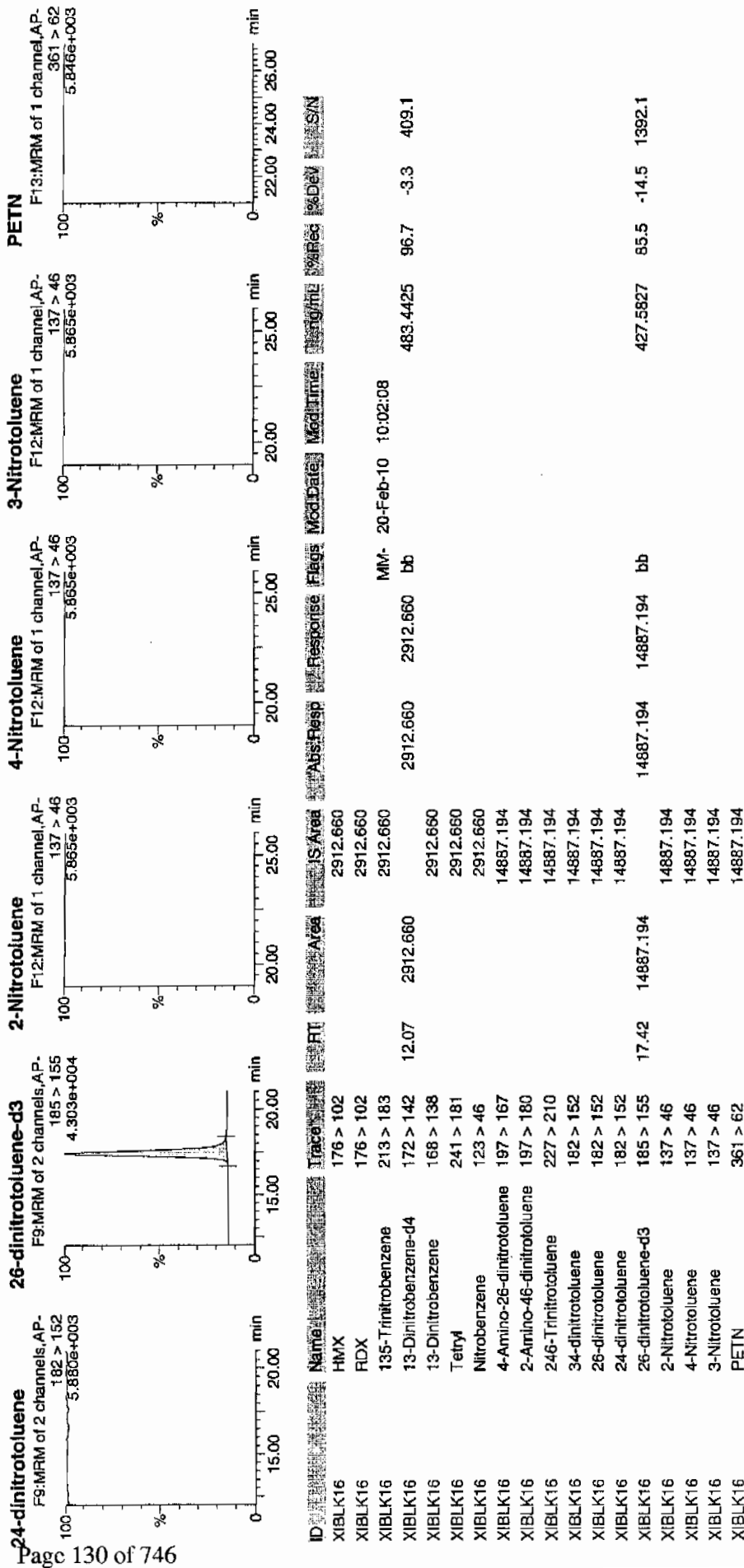
129 of 746



Printed: Sat Feb 20 10:19:24 2010, Page 50 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK17

Analysis Date: 19-FEB-10 23:03

GEL Data File: EXP0216158a

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	510.46
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	468.442
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\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216158a

Date: 19-Feb-2010

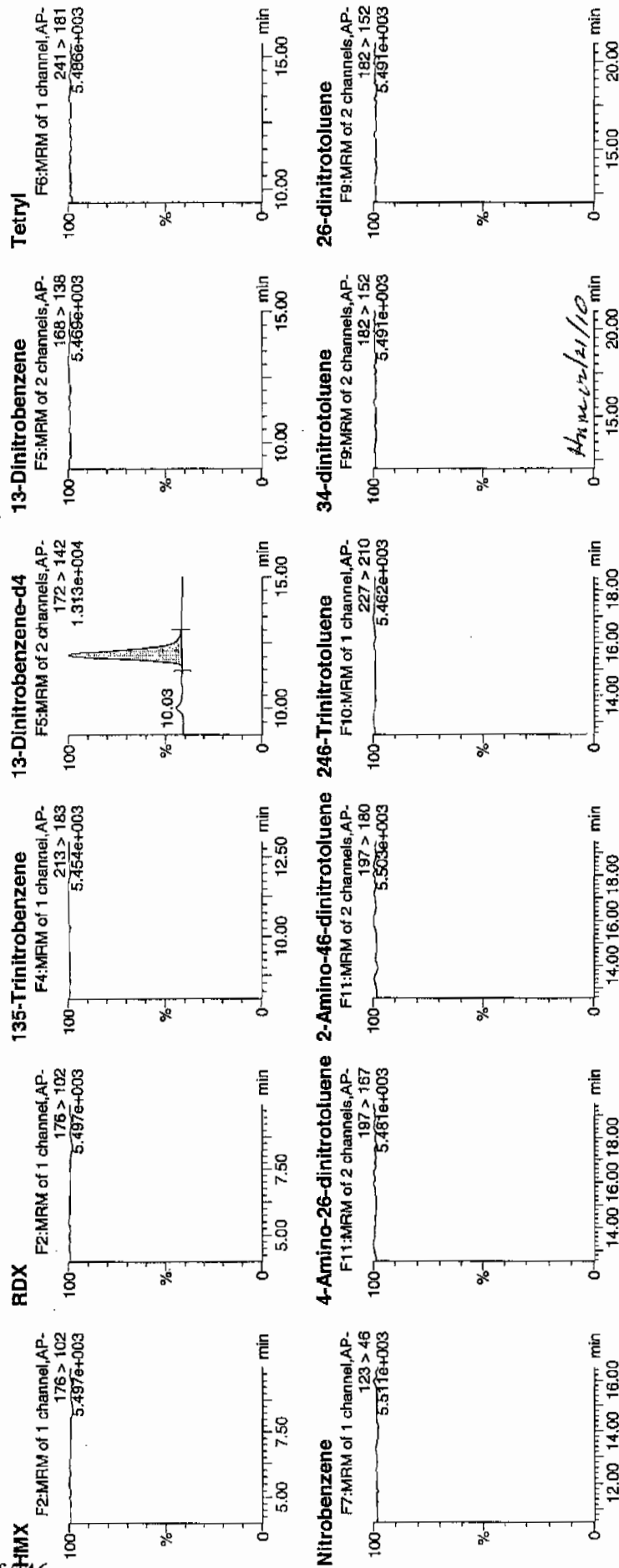
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of 746

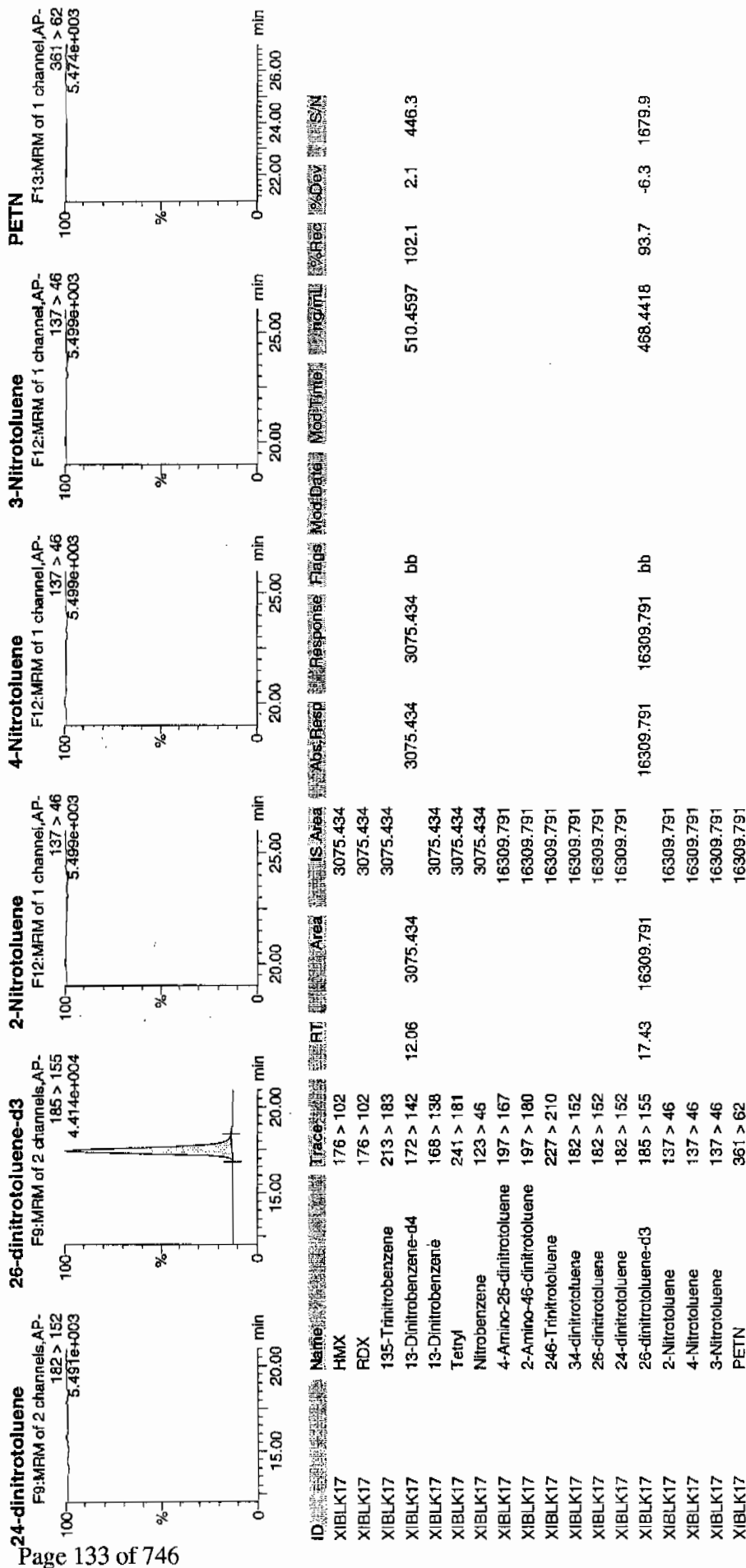
10/17
7/20/10



Printed: Sat Feb 20 10:19:24 2010, Page 60 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK18

Analysis Date: 20-FEB-10 03:00

GEL Data File: EXP0216166a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
1,3-Dinitrobenzene-d4	500	483.953
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	451.867
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216166a

Date: 20-Feb-2010

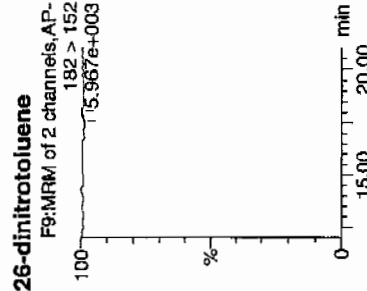
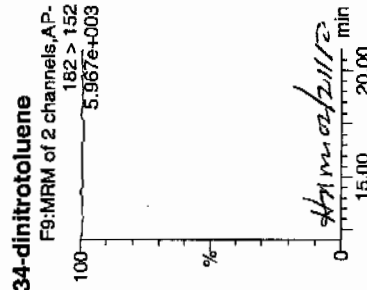
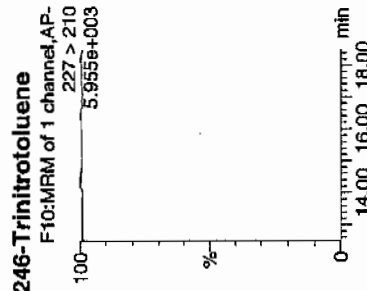
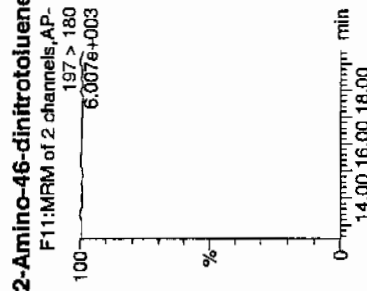
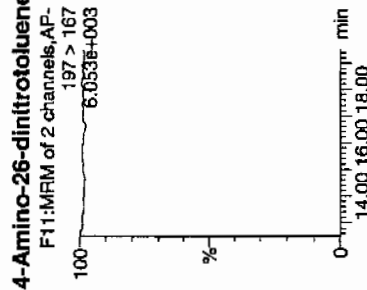
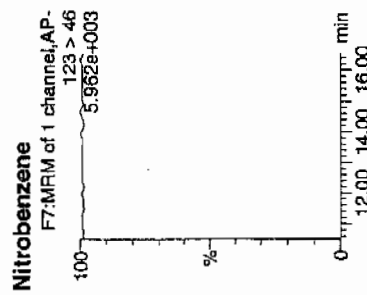
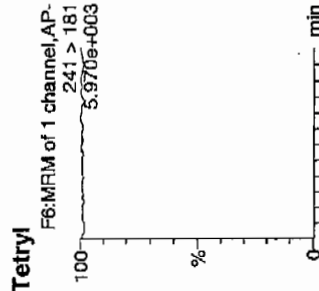
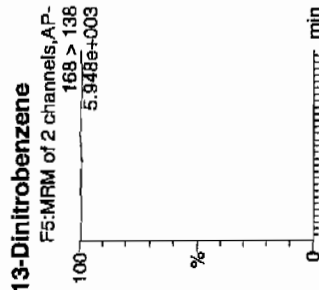
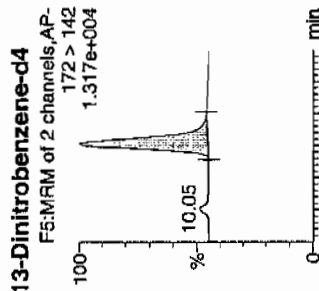
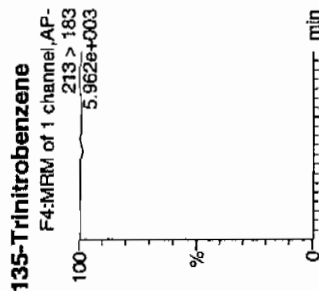
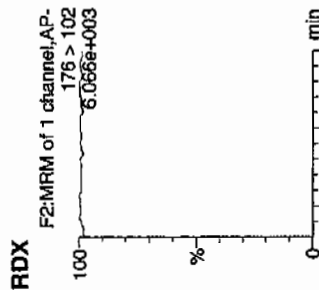
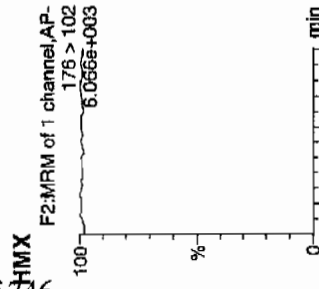
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ID: XIBLK18

Vial: 1:1,A

of

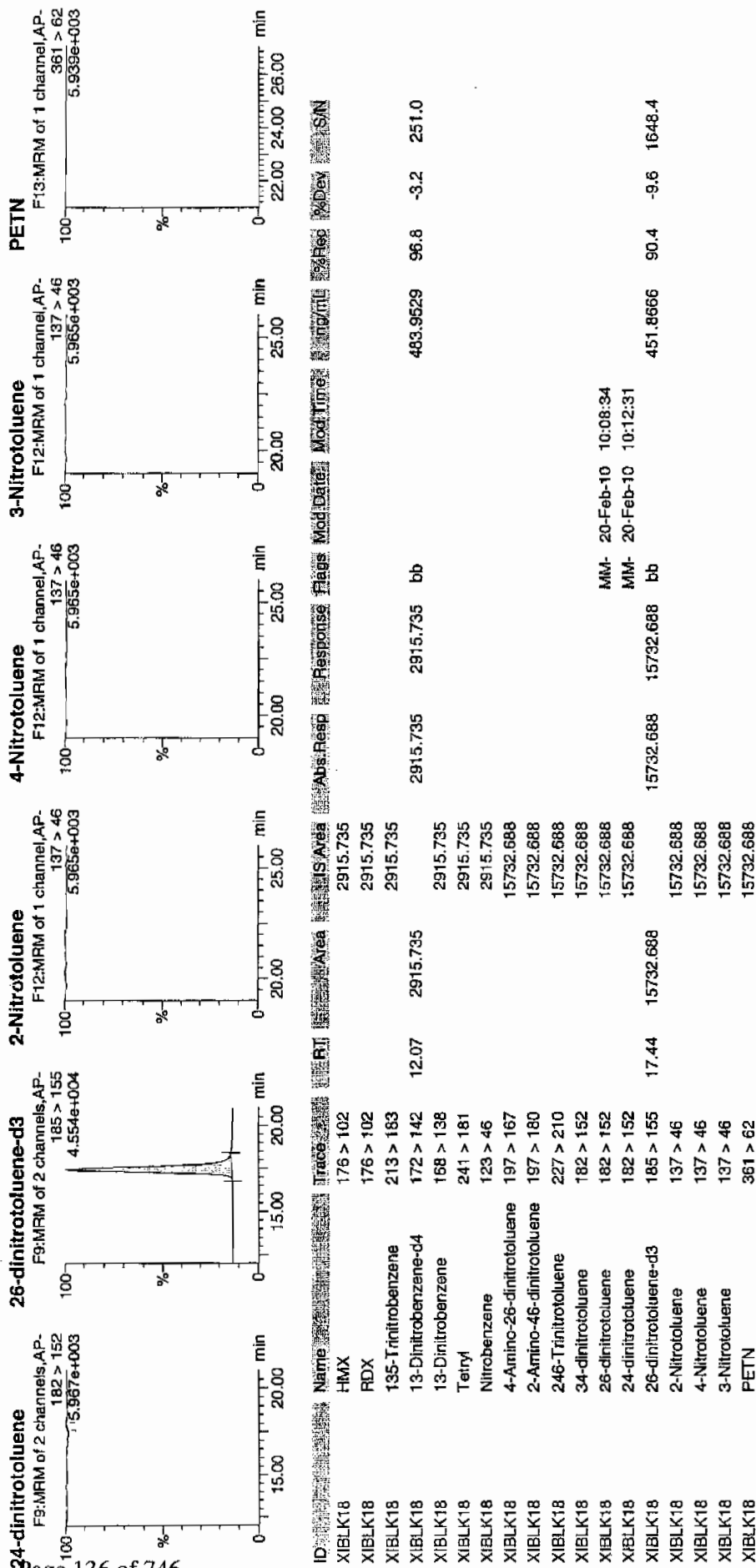
46



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK19

Analysis Date: 20-FEB-10 08:56

GEL Data File: EXP0216178a

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	473.883
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	498.072
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216178a

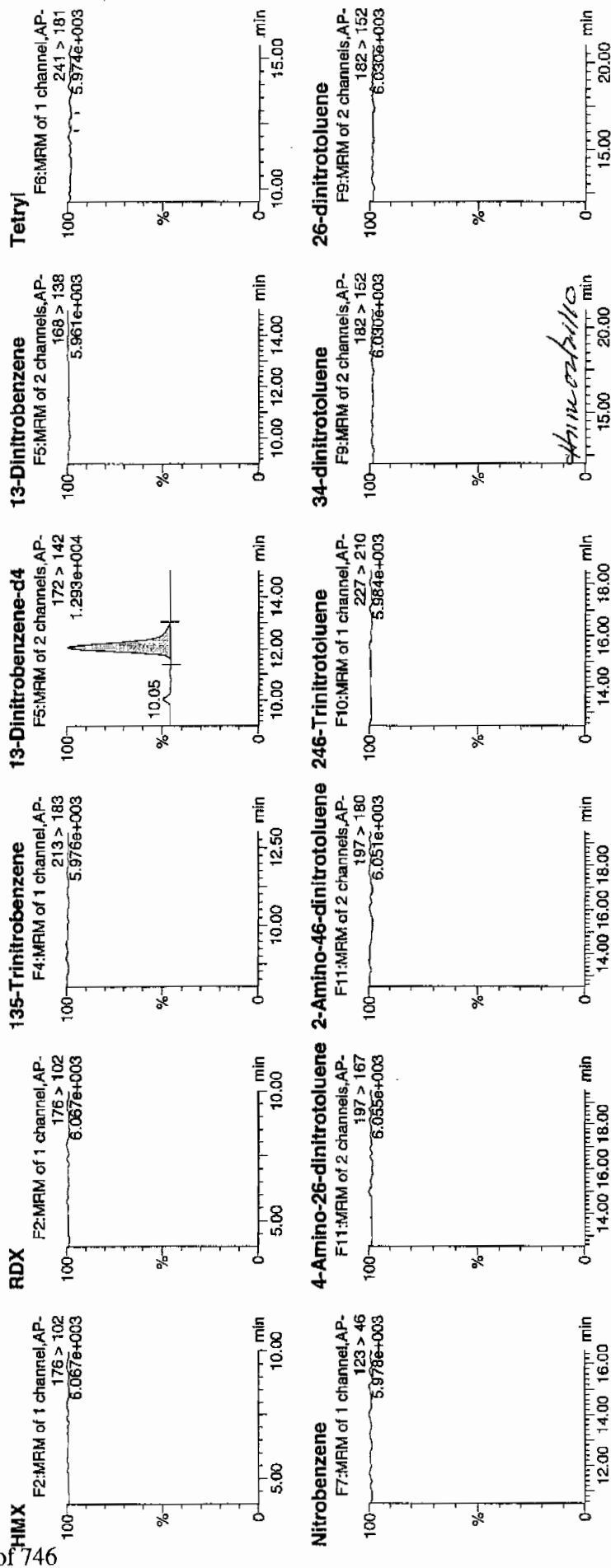
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ID: XIBLK19

Vial: 1:1,A

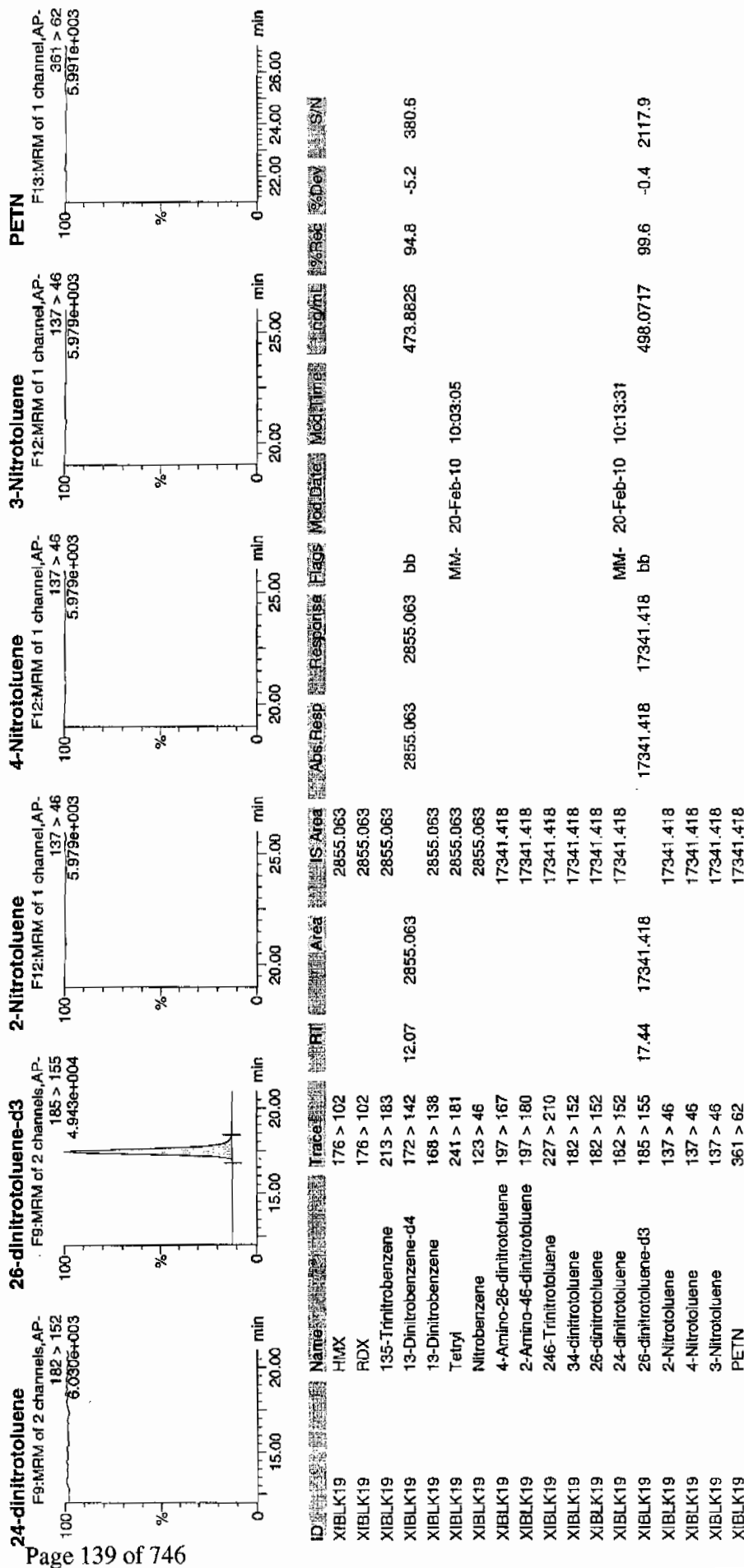
2/20/10



Printed: Sat Feb 20 10:19:24 2010, Page 100 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK20

Analysis Date: 20-FEB-10 15:22

GEL Data File: EXP0216191a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	471.06
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	488.604
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216191a

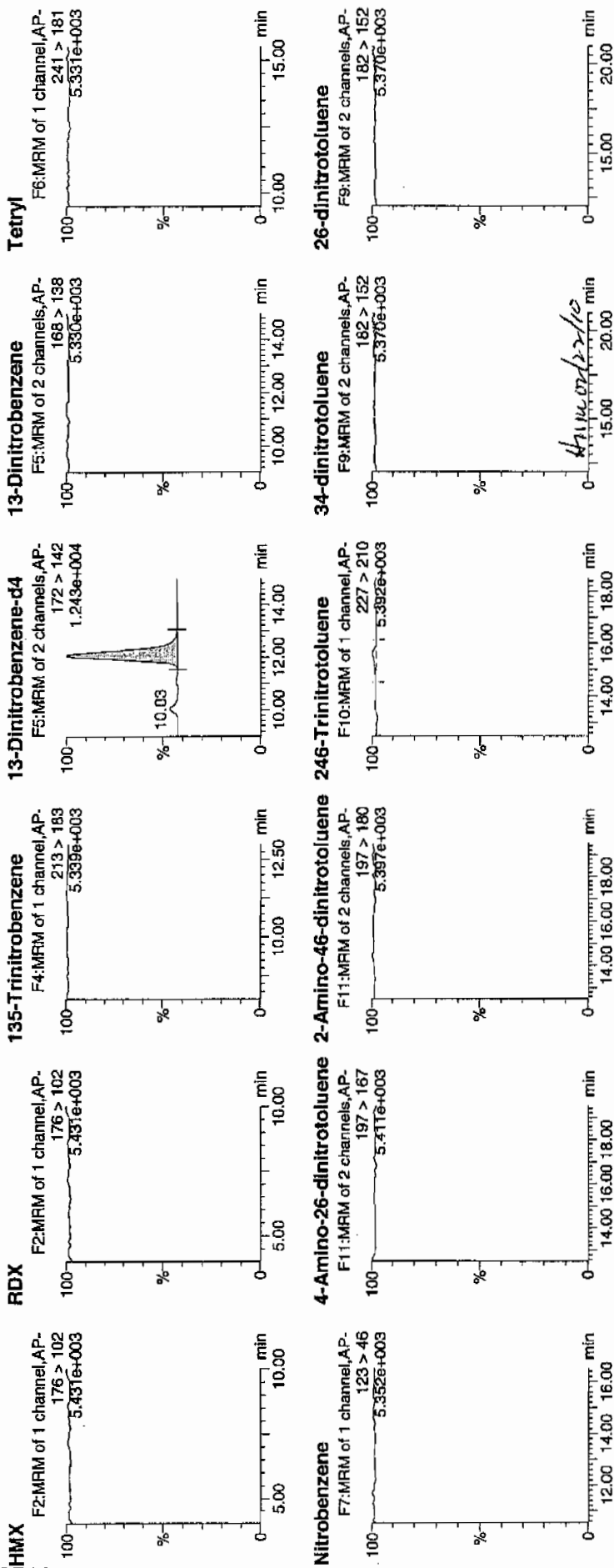
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Vial: 1:1,A

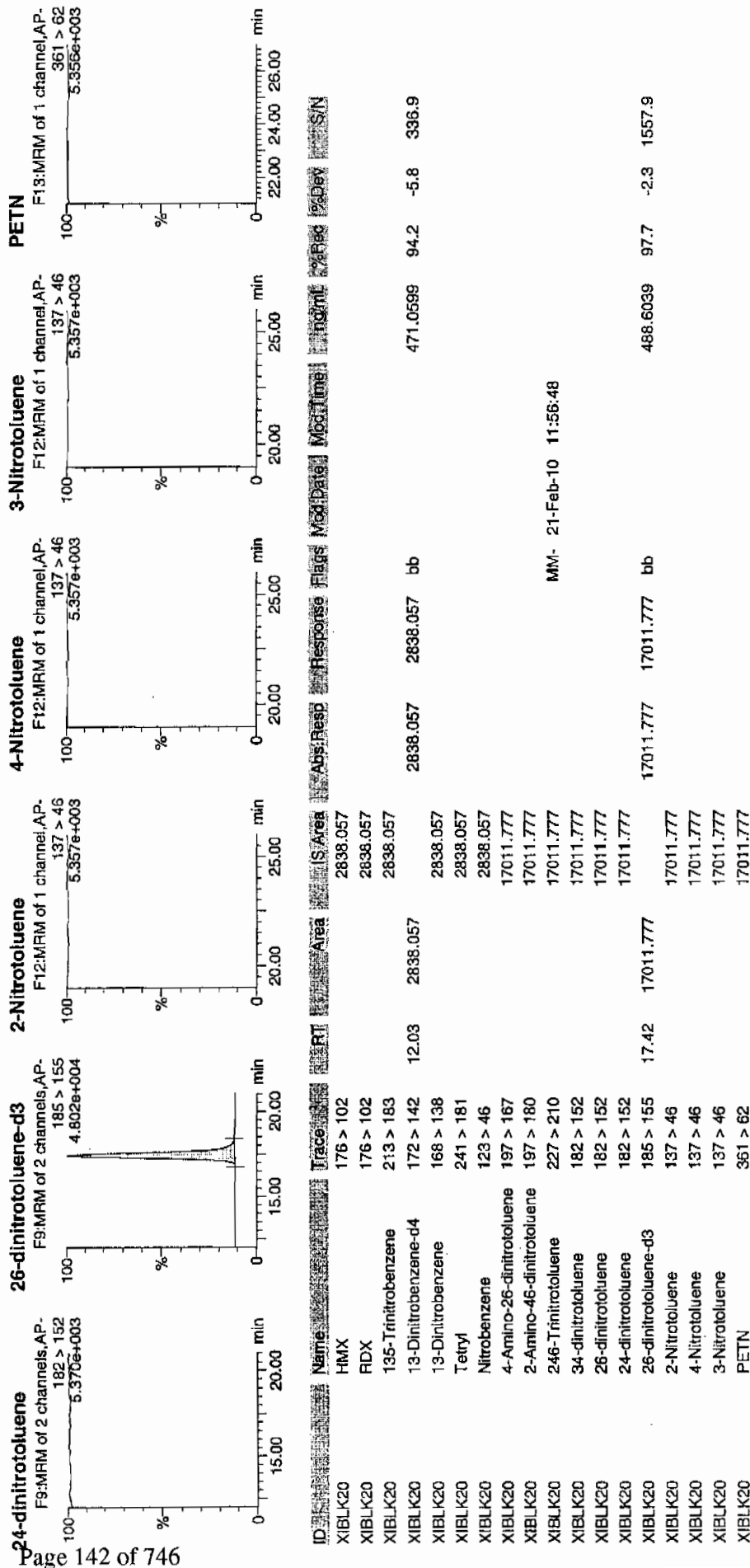
WAT
2/21/10



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Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK21

Analysis Date: 20-FEB-10 21:47

GEL Data File: EXP0216204a

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	511.572
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	461.561
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\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216204a

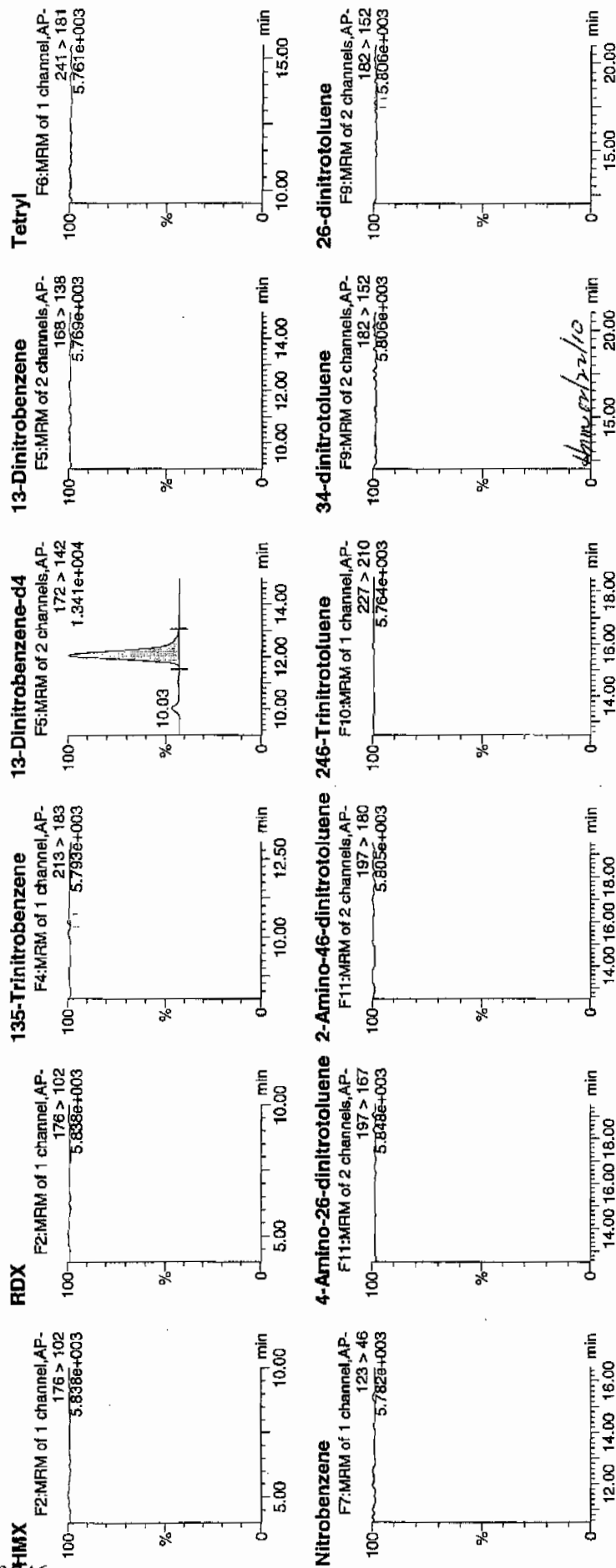
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Time: 21:47:20

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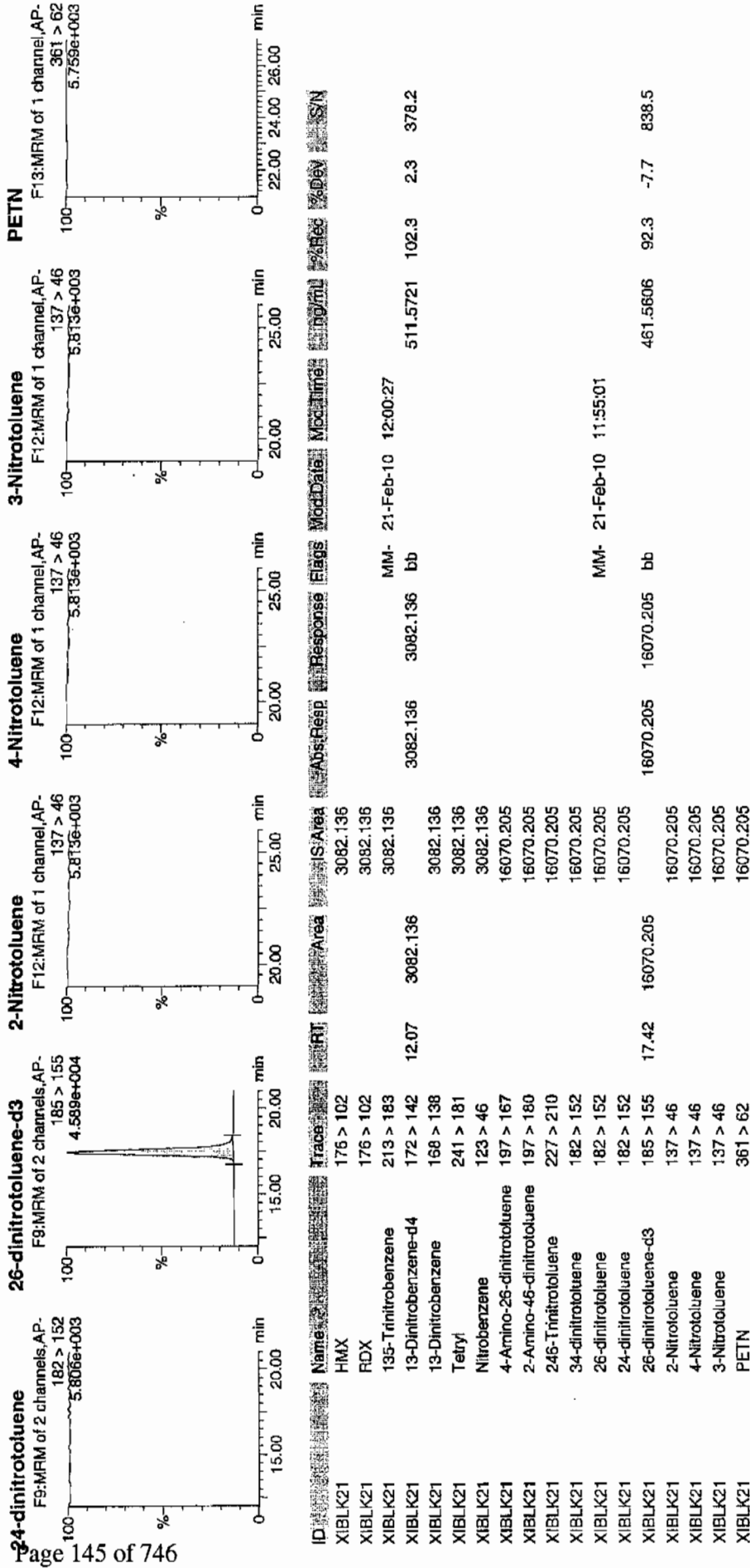
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2/21/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PROV021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK22

Analysis Date: 21-FEB-10 00:15

GEL Data File: EXP0216209a

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	508.776
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	489.453
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216209a

Date: 21-Feb-2010

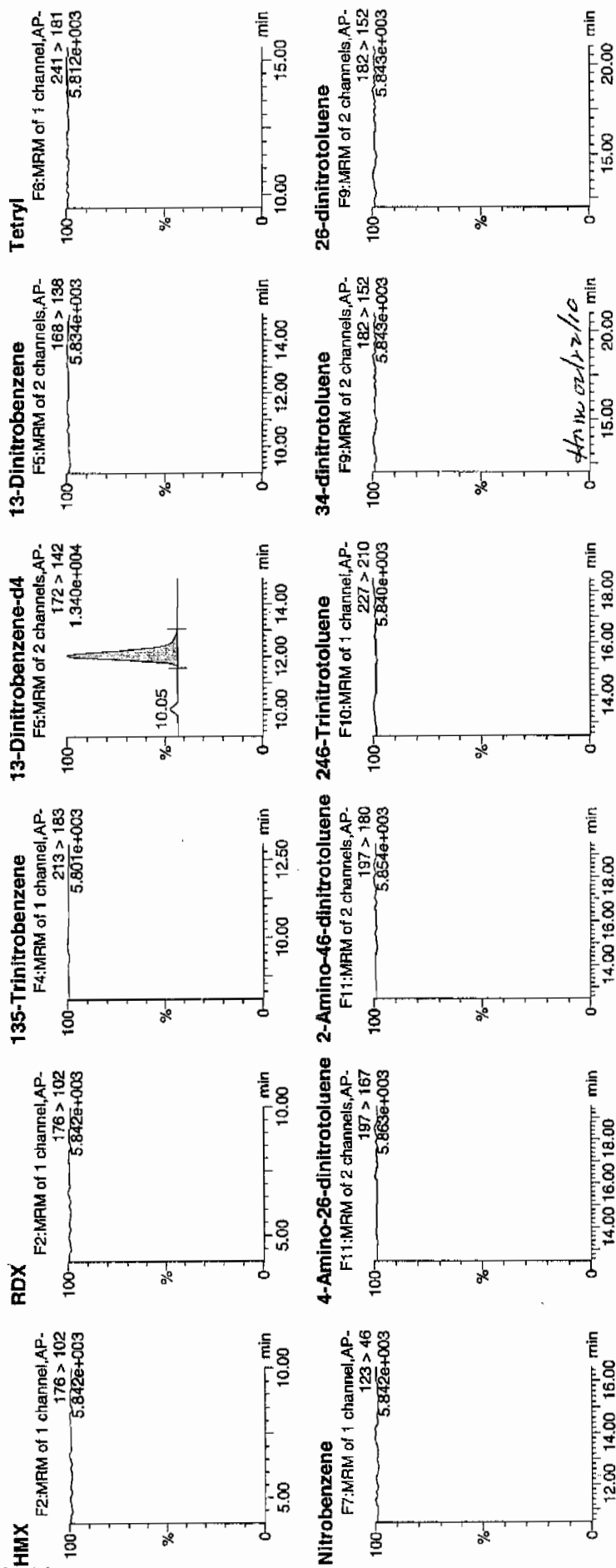
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Vial: 1:1,A

1/21/10

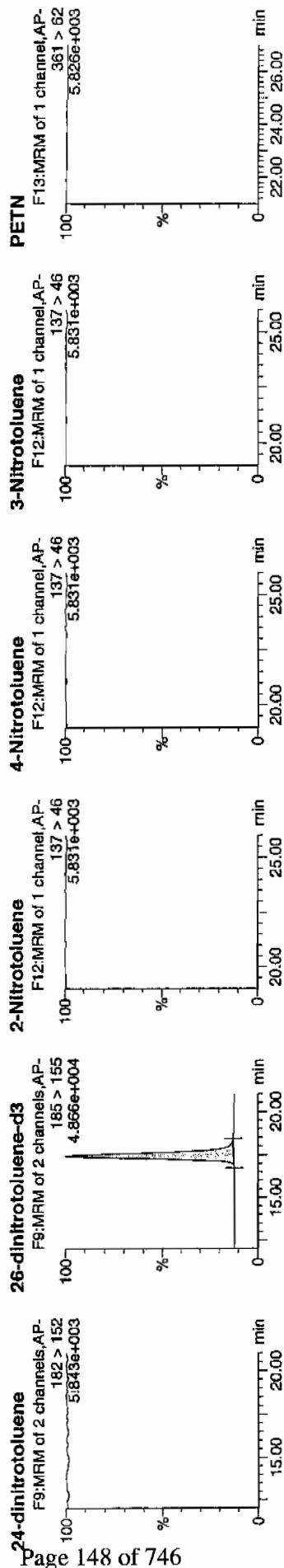
Page 147 of 746



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Quantity Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
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XIBLK22	RDX	176 > 102				3065.287							
XIBLK22	135-Trinitrobenzene	213 > 183				3065.287							
XIBLK22	13-Dinitrobenzene-d4	172 > 142	12.03	3065.287		3065.287		bb			508.7755	101.8	253.1
XIBLK22	13-Dinitrobenzene	168 > 138				3065.287							
XIBLK22	Tetryl	241 > 181				3065.287							
XIBLK22	Nitrobenzene	123 > 46				3065.287							
XIBLK22	4-Amino-26-dinitrotoluene	197 > 167				17041.354							
XIBLK22	2-Amino-46-dinitrotoluene	197 > 180				17041.354							
XIBLK22	246-Trinitrotoluene	227 > 210				17041.354							
XIBLK22	34-dinitrotoluene	182 > 152				17041.354							
XIBLK22	26-dinitrotoluene	182 > 152				17041.354							
XIBLK22	24-dinitrotoluene	182 > 152				17041.354							
XIBLK22	26-dinitrotoluene-d3	185 > 155	17.42	17041.354		17041.354		bb	MM- 21-Feb-10	11:50:27	489.4534	97.9	1508.3
XIBLK22	2-Nitrotoluene	137 > 46				17041.354							
XIBLK22	4-Nitrotoluene	137 > 46				17041.354							
XIBLK22	3-Nitrotoluene	137 > 46				17041.354							
XIBLK22	PETN	361 > 62				17041.354							

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK23

Analysis Date: 21-FEB-10 04:13

GEL Data File: EXP0216217a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	579.112
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	541.911
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216217a

Date: 21-Feb-2010

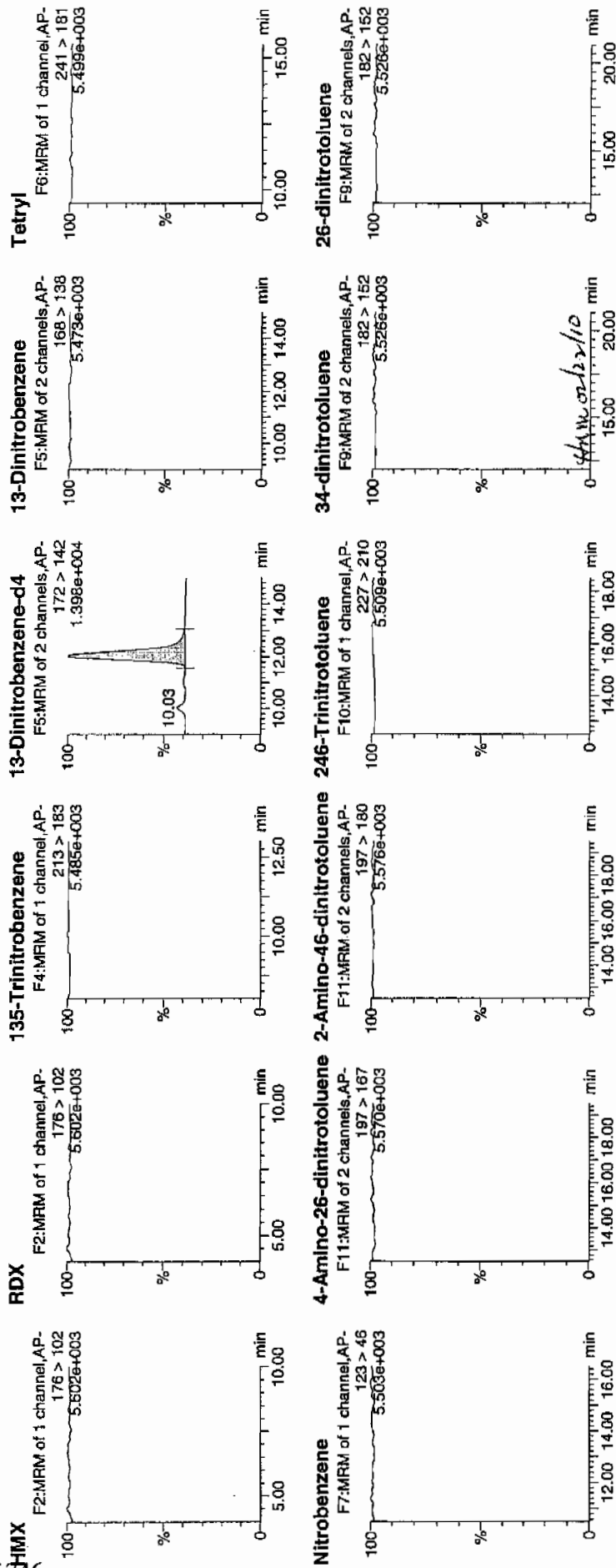
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Vial: 1:1,A

of

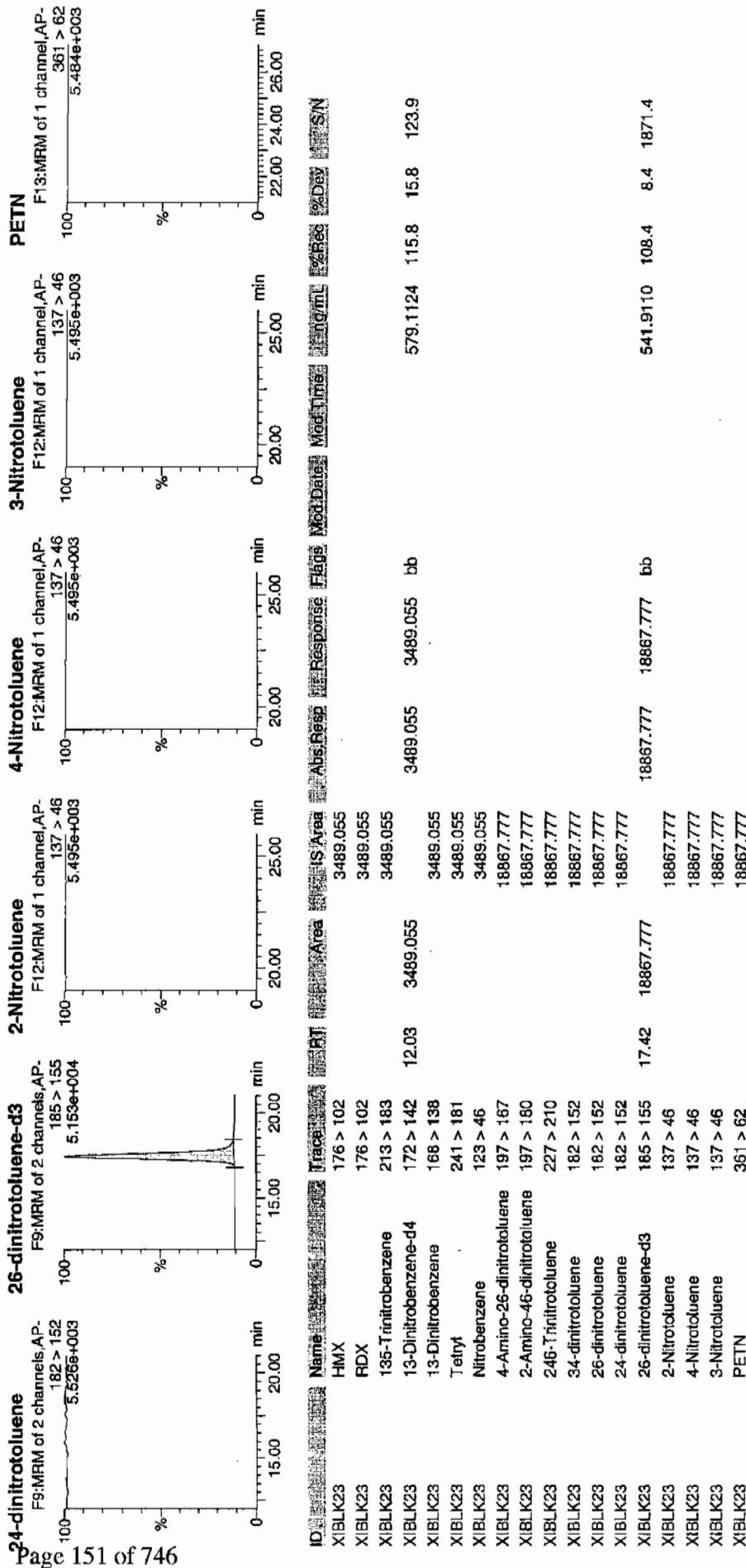
46



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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 17-FEB-10 11:47

GEL Data File: EXS02170010.wiff

Instrument ID: LCMSMS

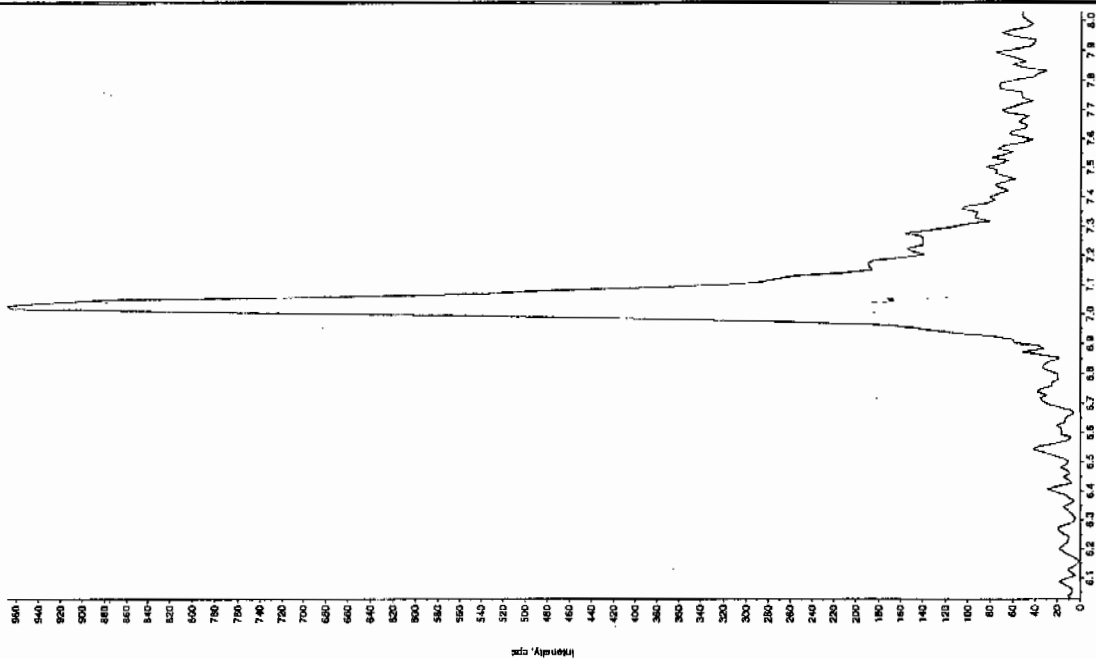
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	11.1
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

kan 2/19/10

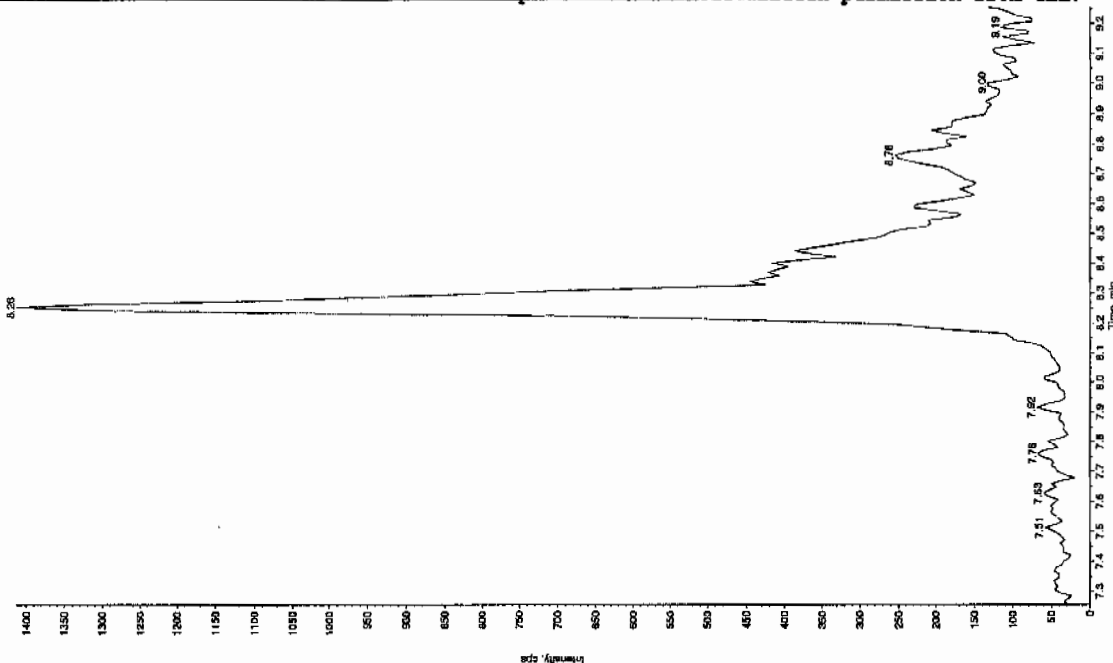
Sample Name: "XIBLK02" Sample ID: "TILER" File: "EXS02170010.will"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "TILER" File: "EXS02170010.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: No



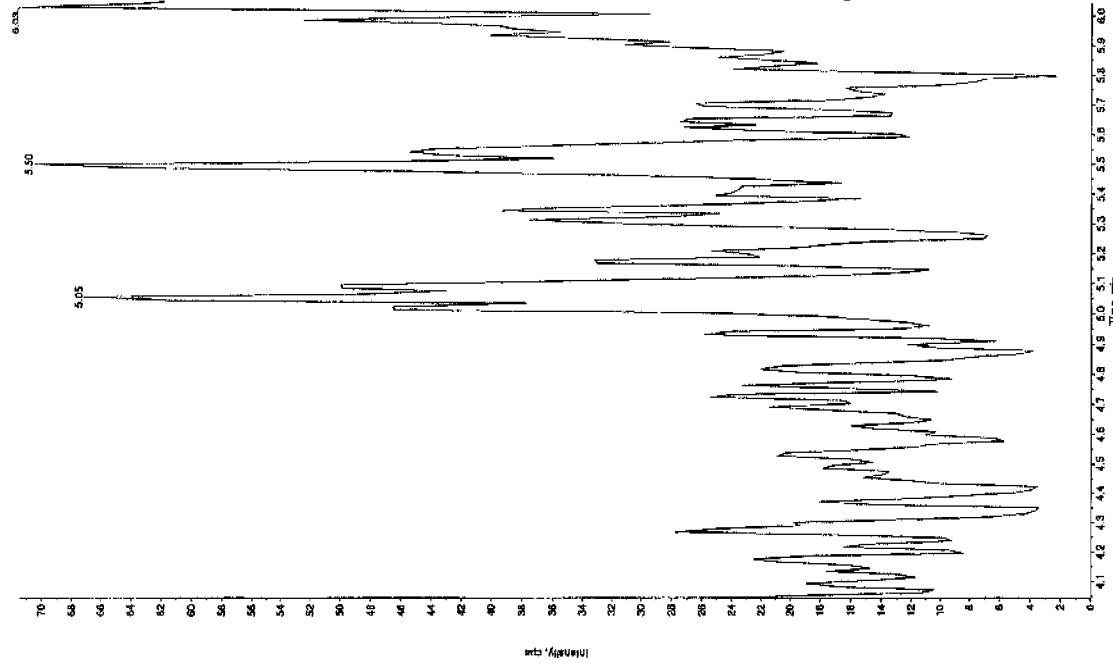
kan 2/19/10

Sample Name: "XBLK02" Sample ID: "111ER" File: "EX502170010.will"

Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: No

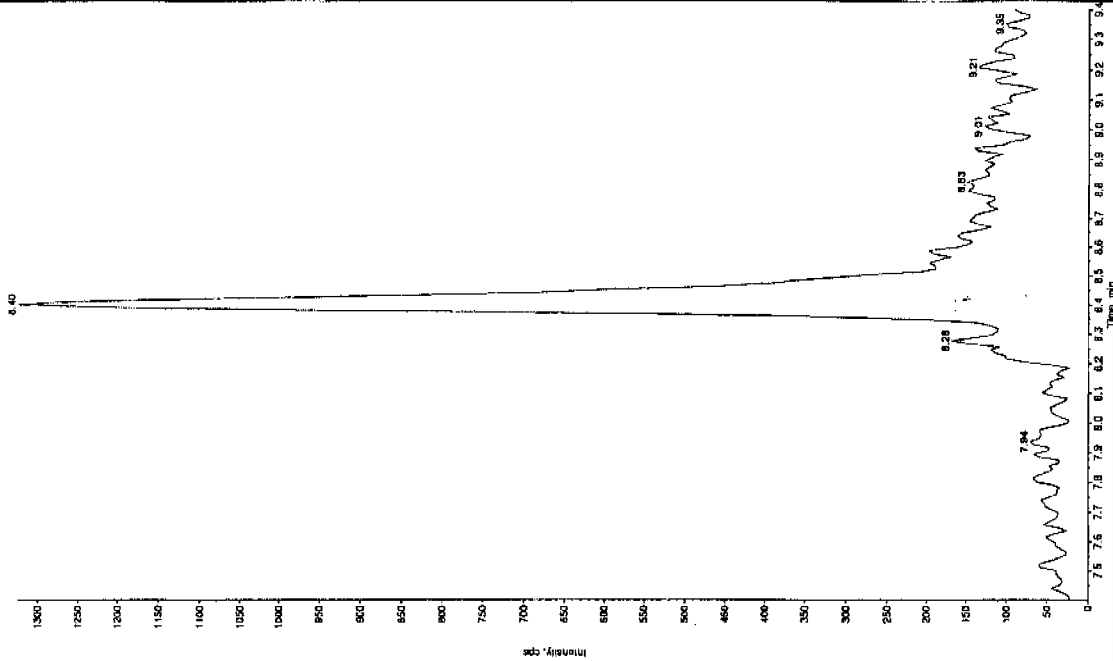


Sample Name: "XBLK02" Sample ID: "111ER" File: "EX502170010.will"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1751.9 amu"

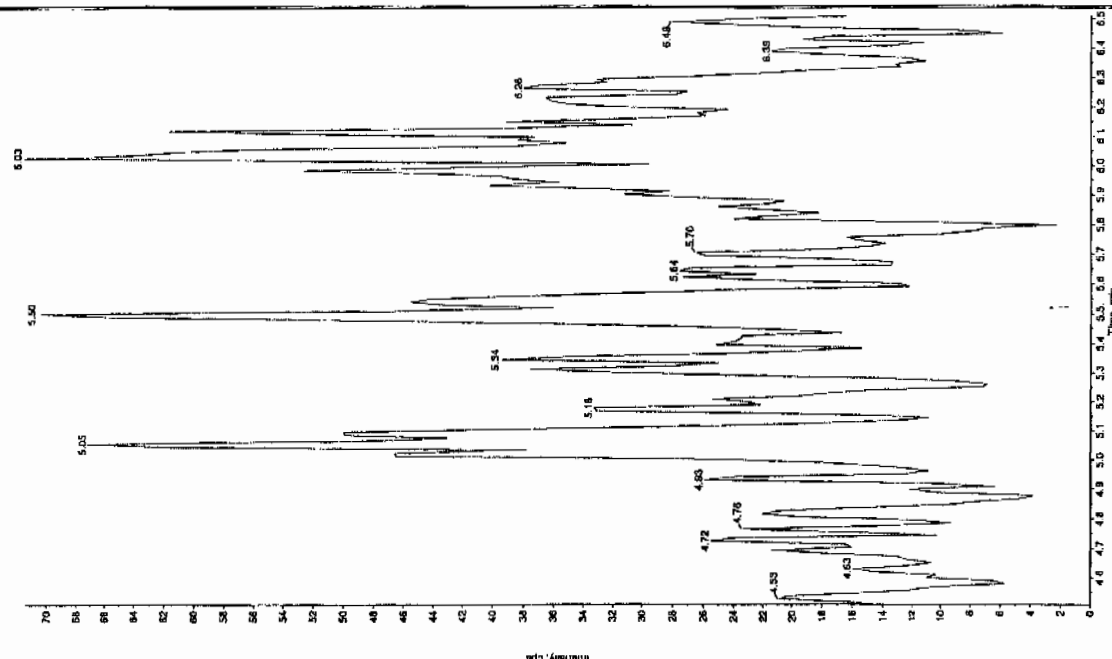
Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: No



Sample Name: "XBLK02" Sample ID: "JLRF" File: "EX502170010.wif"
 Peak Name: "tris(2-oresyl) phosphite" Mass(es): "393.1/91.0 amu"
 Comment: "LCMS EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 11.3 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: NO
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 2.42e+003 counts
 Height: 5778.88 cps
 Start Time: 10.9 min
 End Time: 11.3 min



Sample Name: "XBLK02" Sample ID: "JLRF" File: "EX502170010.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMS EXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:47:37 AM
 Modified: NO

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 17-FEB-10 12:19

GEL Data File: EXS02170012.wiff

Instrument ID: LCMSMS

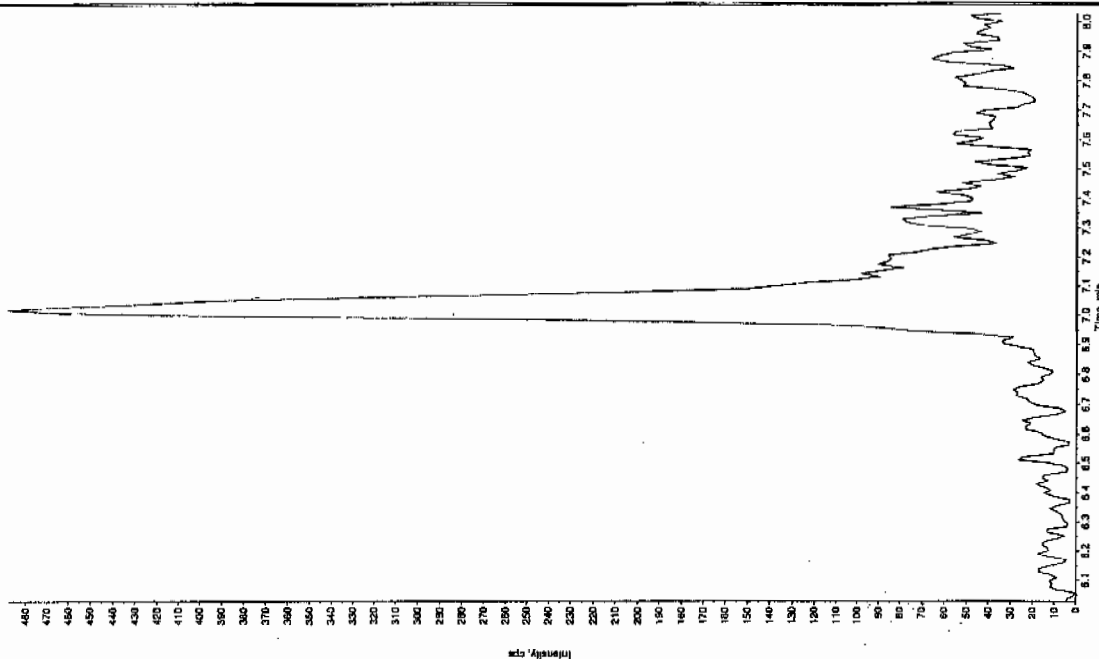
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	5.28
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 21/9/10

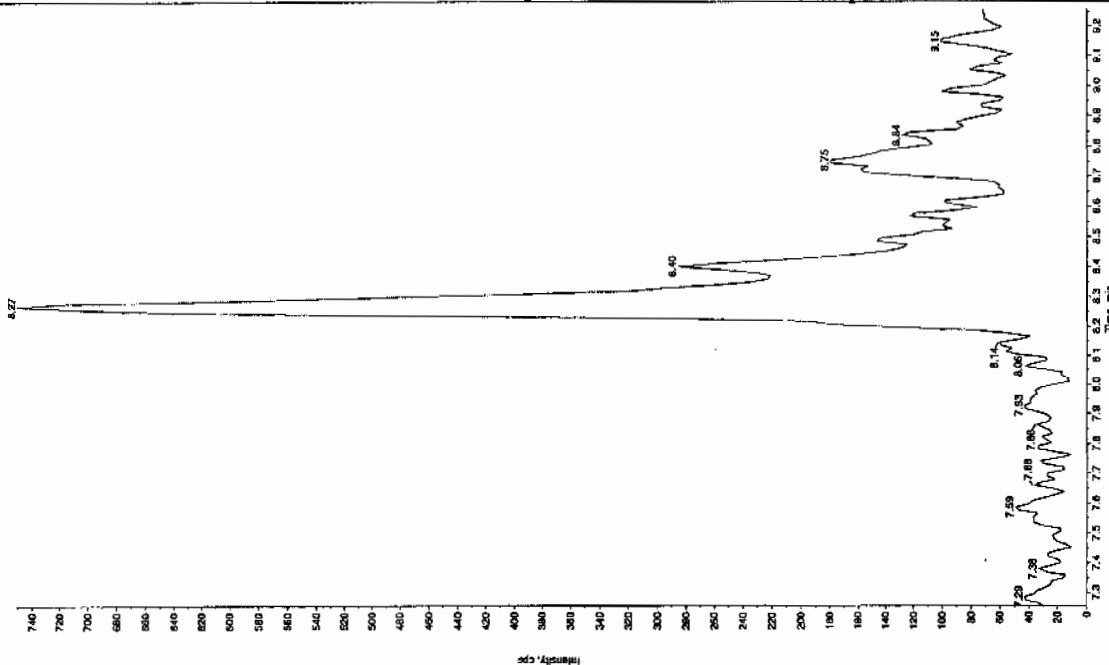
Sample Name: "XBL403" Sample ID: "111.ER" File: "EXS02170012.wif"
 Peak Name: "TATE" Mass(es): "257.2204.9 amu"
 Concentration: "1" Amplitude: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No



Sample Name: "XBL403" Sample ID: "111.ER" File: "EXS02170012.wif"
 Peak Name: "15-ORFEN" Mass(es): "182.0480 amu"
 Concentration: "1" Amplitude: "1"

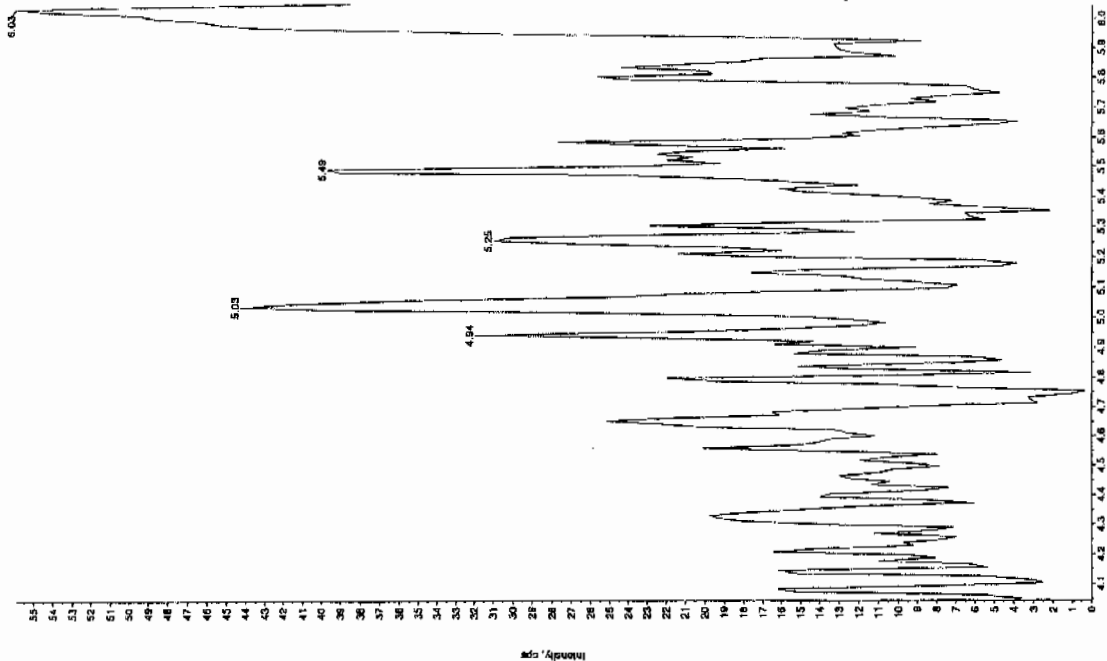
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No



Jan 21/9/10

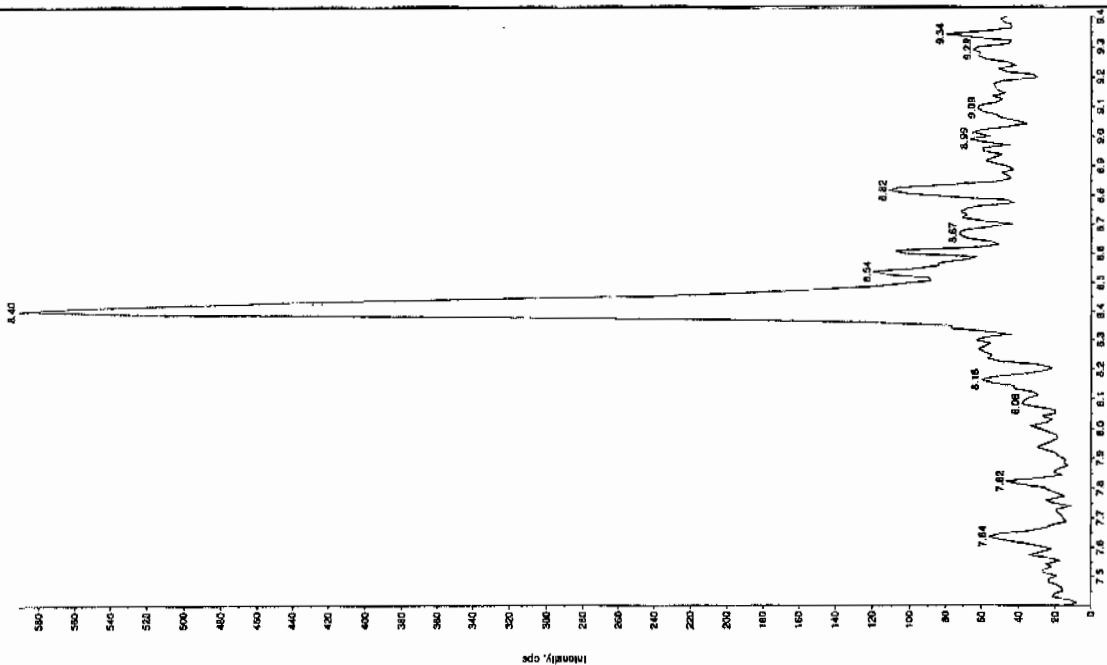
Sample Name: "XBLK03" Sample ID: "111111" File: "EX502170012.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0463.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No



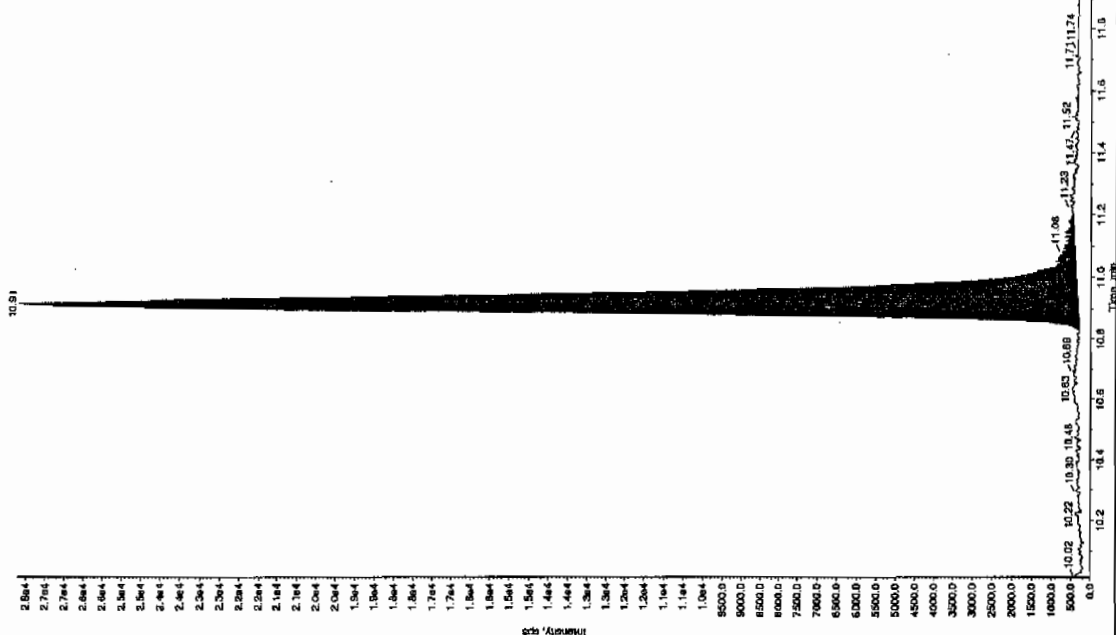
Sample Name: "XBLK03" Sample ID: "111111" File: "EX502170012.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No



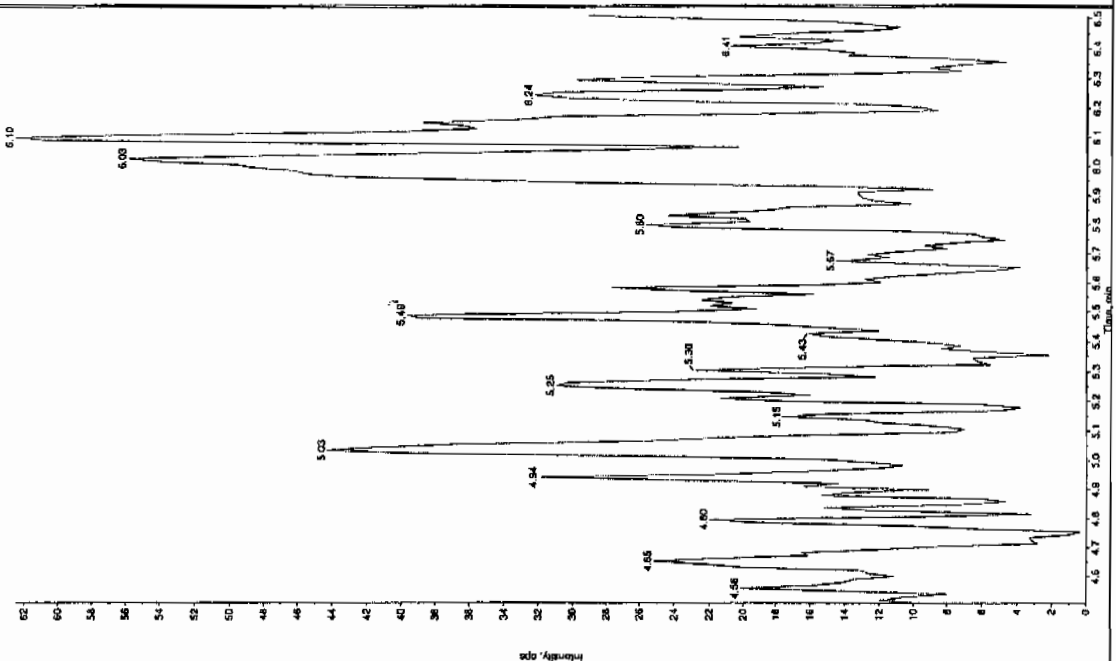
Sample Name: "XBLK03" Sample ID: "JILR" File: "EXS02170012.wif"
 Peak Name: "bis(4-tert-butylphenyl) phosphite" Mass(es): "359.1/81.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 5.28 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.15e+005 counts
 Height: 27372.225 cps
 Start Time: 10.5 min
 End Time: 11.2 min



Sample Name: "XBLK03" Sample ID: "JILR" File: "EXS02170012.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:19:01 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 17-FEB-10 15:43

GEL Data File: EXS02170025.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

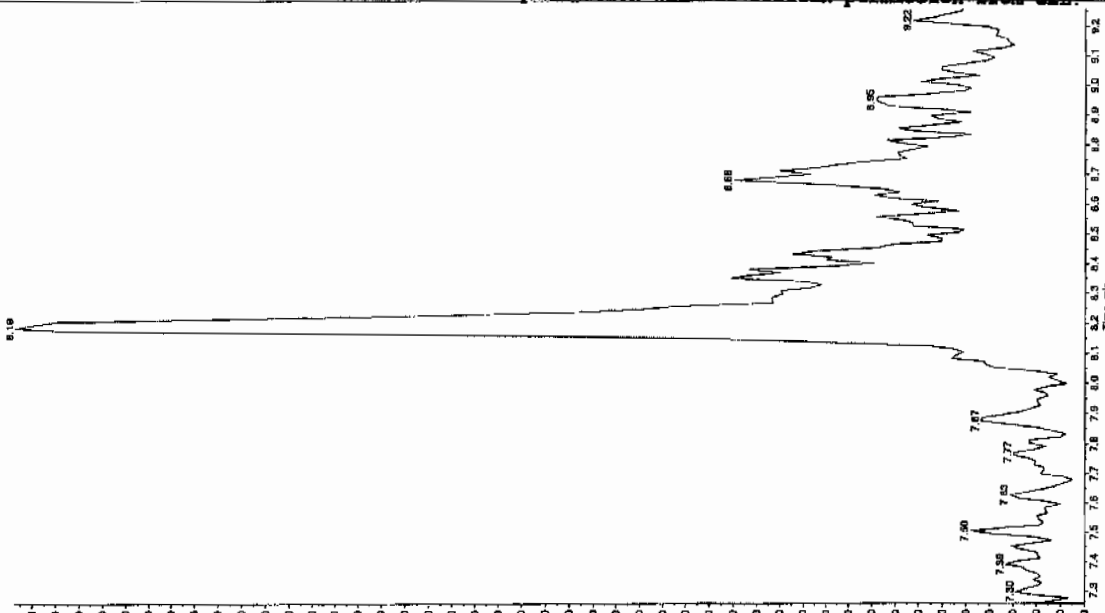
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.23
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

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Sample Name: "XBL004" Sample ID: "11LEP" File: "EX02170025.wif"
 Peak Name: "36-Diethylamine" Mass(es): "182.046 amu"
 Comment: "LOUSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No

Intensity, cps

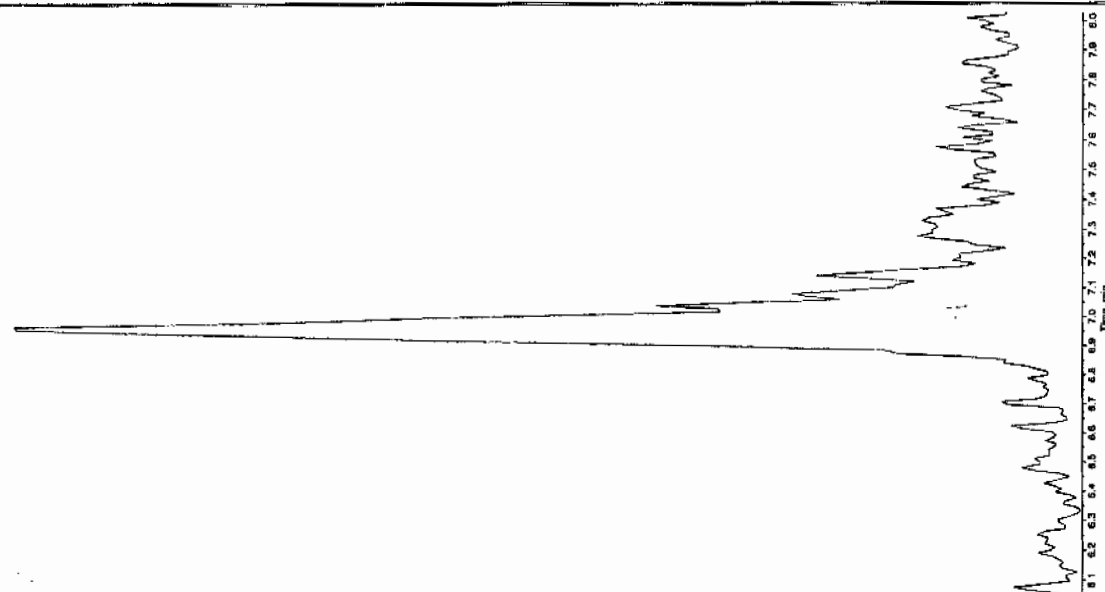


Arm 02/19/10

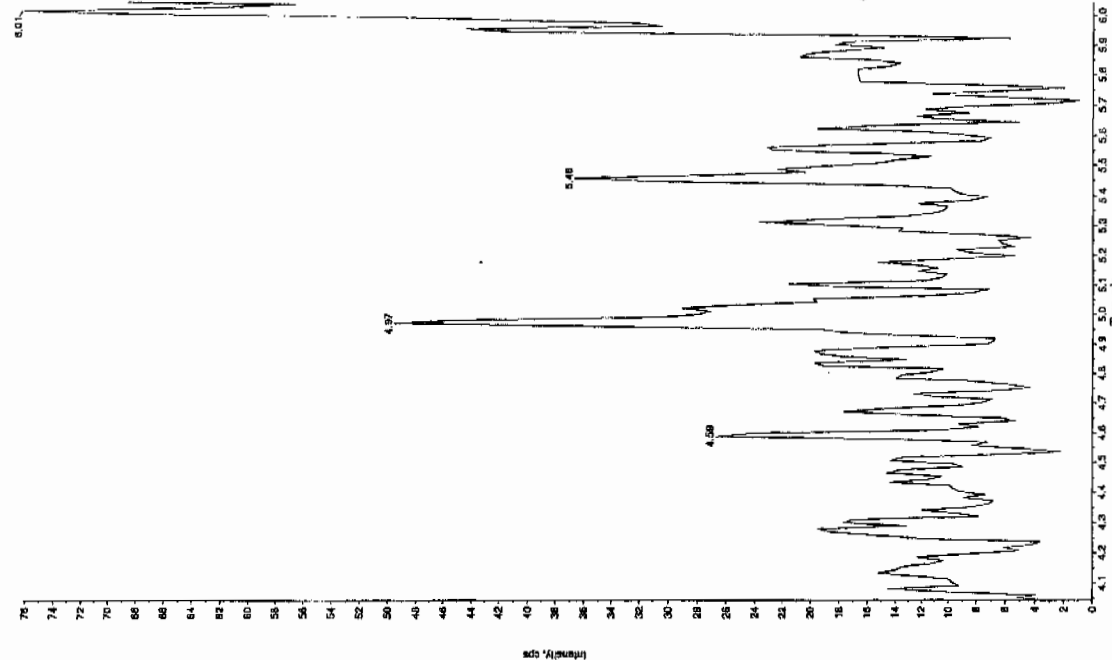
Sample Name: "XBL004" Sample ID: "11LEP" File: "EX02170025.wif"
 Peak Name: "TATP" Mass(es): "257.204 amu"
 Comment: "LOUSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No

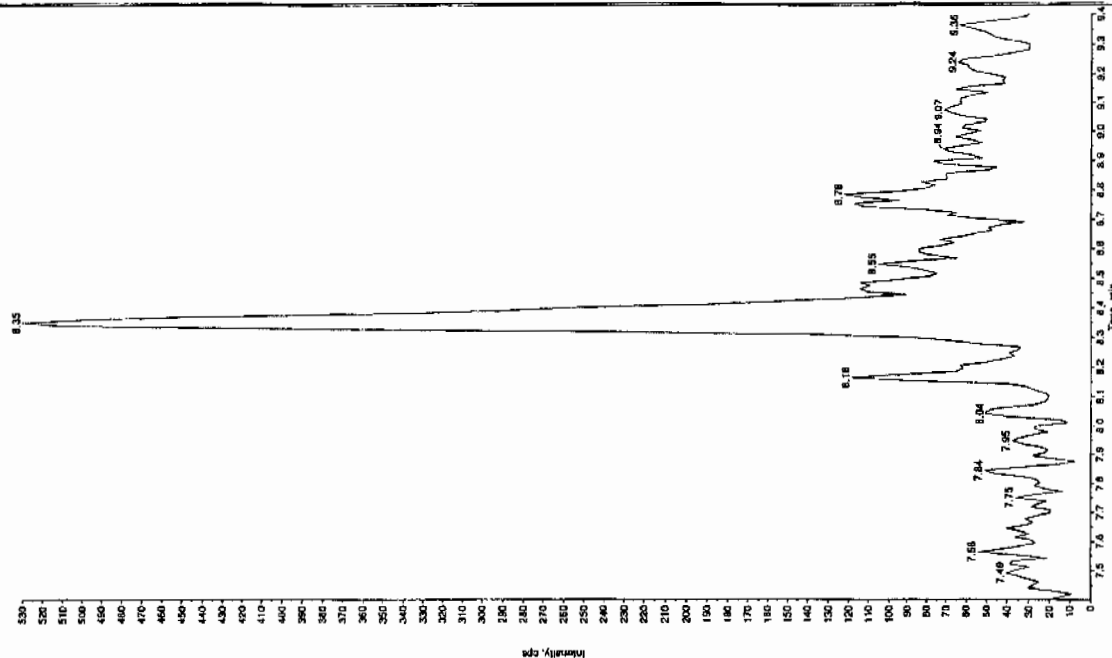
Intensity, cps



Sample Name: "XELK04" Sample ID: "JILLER" File: "EX50217025.wif"
 Peak Name: "25-Diamino-4-nitrobenzene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No

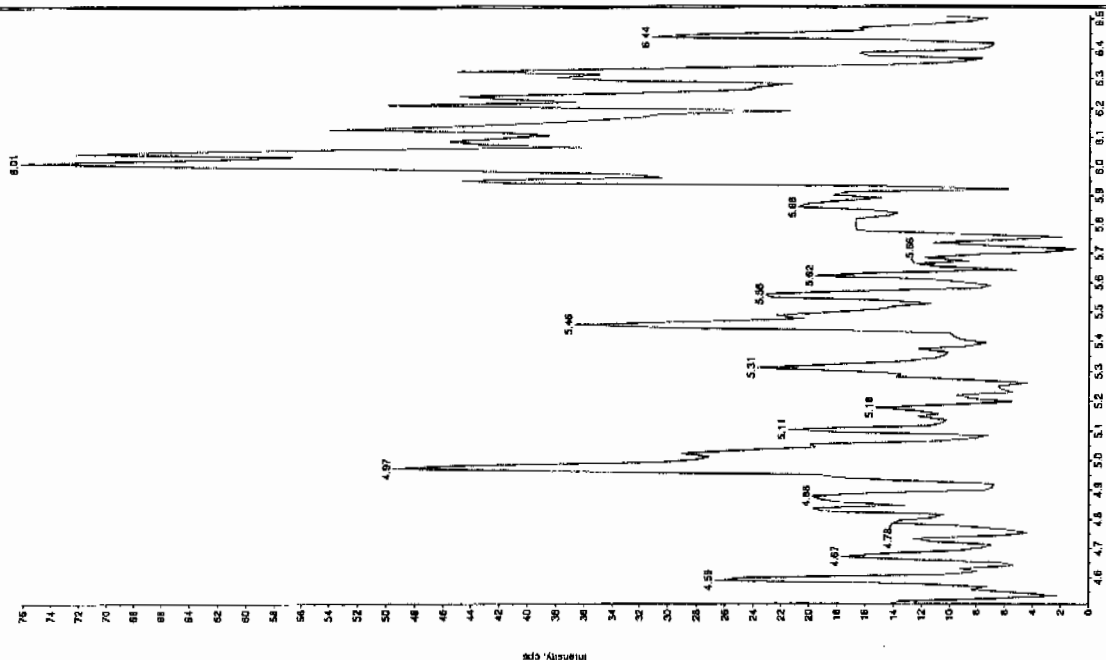


Sample Name: "XELK04" Sample ID: "JILLER" File: "EX50217025.wif"
 Peak Name: "34-Dinitrobenzene" Mass(es): "182.1151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No



Sample Name: "XBLK04" Sample ID: "11LER" File: "EXS02170025.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "399.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.23 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 7.04e+004 counts
 Height: 17083.232 cps
 Start Time: 11.3 min
 End Time: 11.3 min



Sample Name: "XBLK04" Sample ID: "11LER" File: "EXS02170025.wif"
 Peak Name: "24-Dinitro-6-Nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:43:08 PM
 Modified: No

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 17-FEB-10 19:07

GEL Data File: EXS02170038.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.34
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 2/19/10

Sample Name: "XBLK05" Sample ID: "111ER" File: "EX52170036.w" Comment: "LCMSEXP_B" Annotation: "

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Sample Index: 1

Sample Type: Unknown

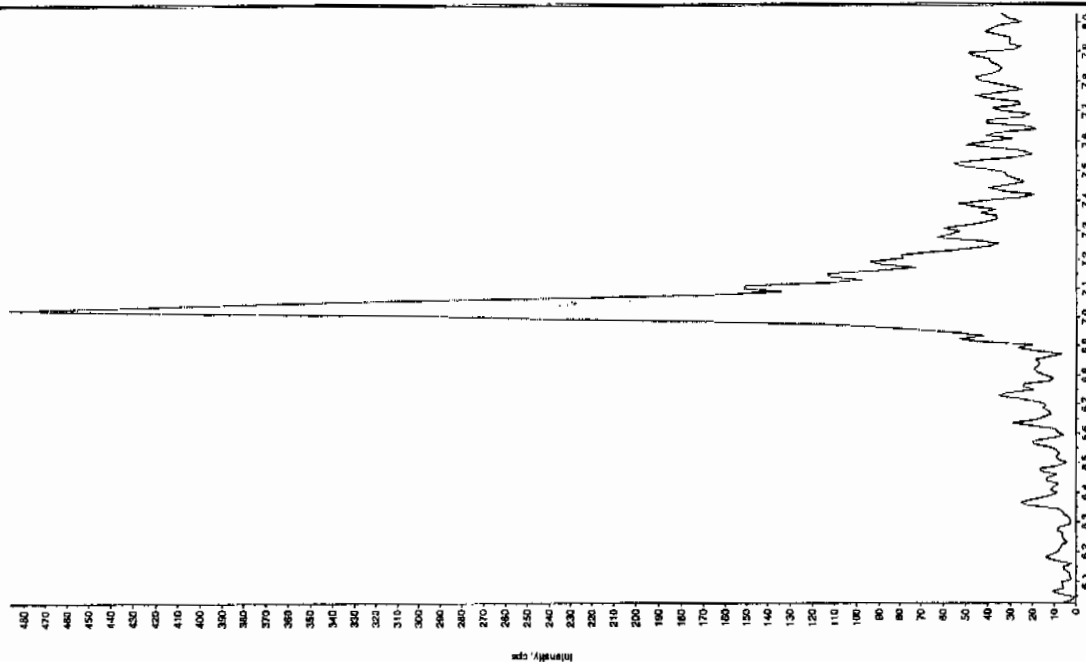
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 2/17/2010

Acq. Time: 7:07:17 PM

Modified: No



Sample Name: "XBLK05" Sample ID: "111ER" File: "EX52170036.w" Comment: "LCMSEXP_B" Annotation: "

Peak Name: "35-Dinitroline" Mass(es): "182.046.0 amu"

Sample Index: 1

Sample Type: Unknown

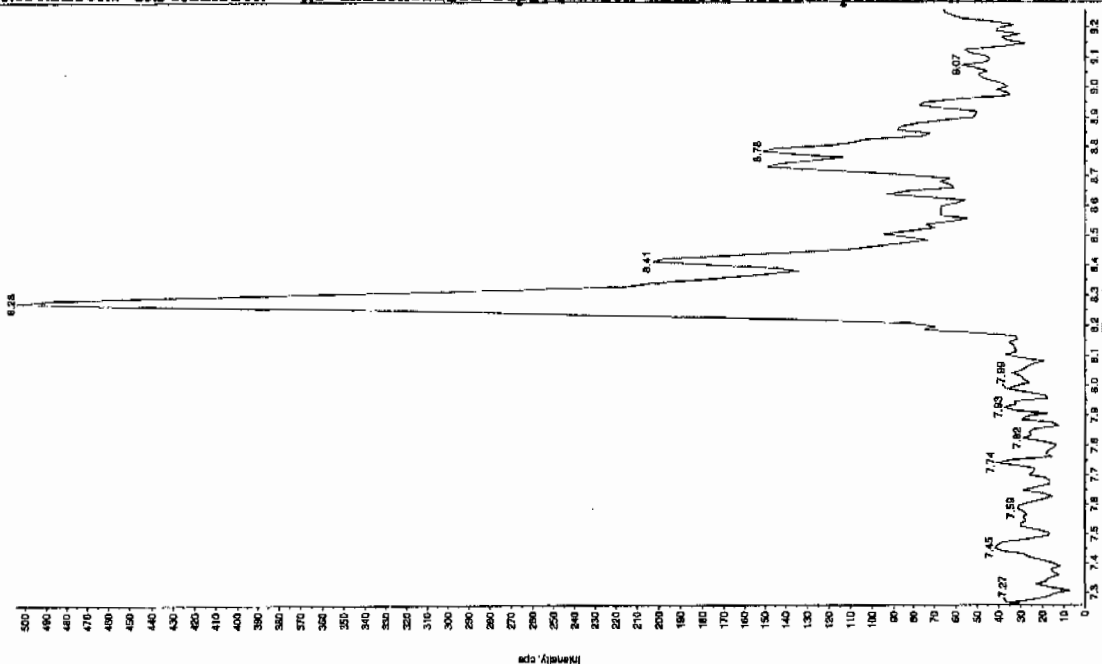
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 2/17/2010

Acq. Time: 7:07:17 PM

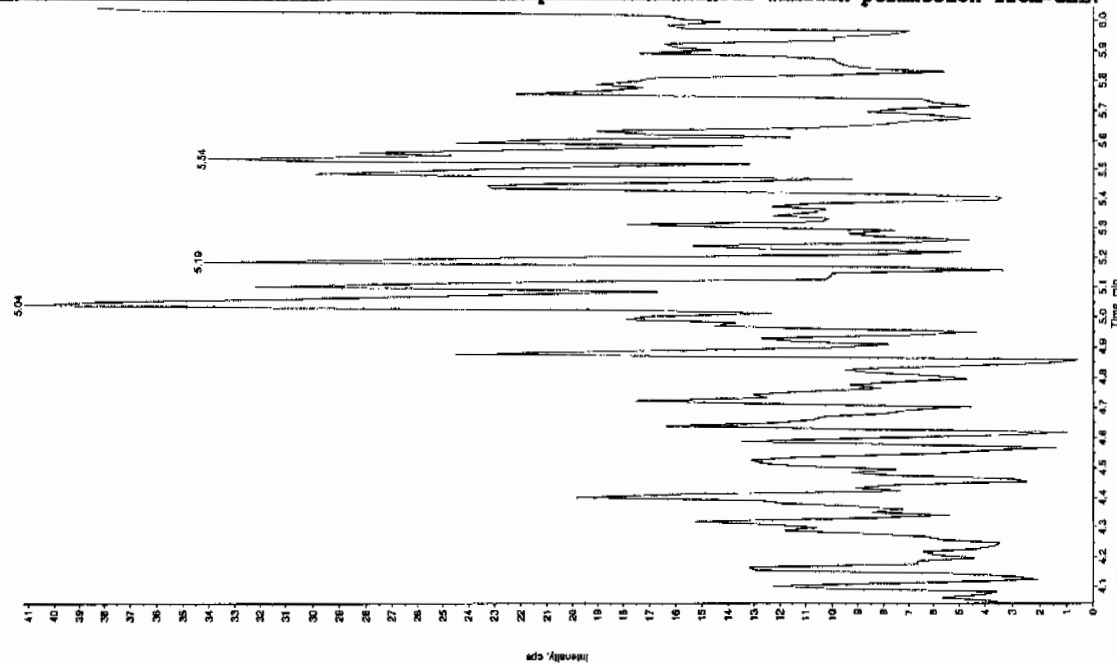
Modified: No



See 2/19/10

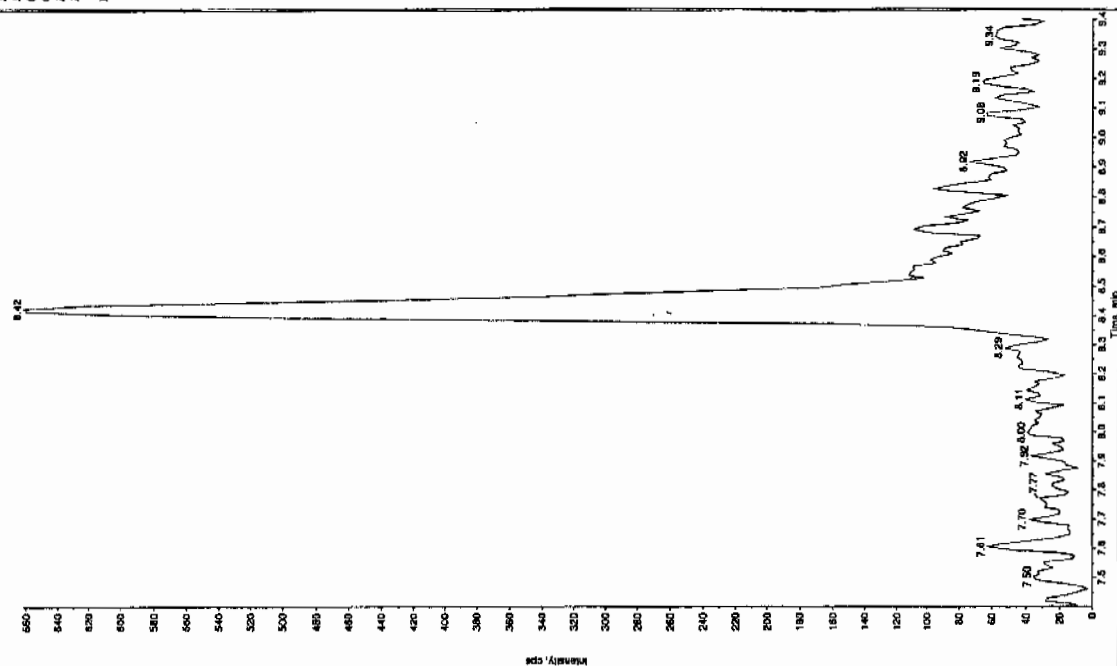
Sample Name: "YELUOS" Sample ID: "111EP" File: "EVS02170038.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "162.0460 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:07:17 PM
 Modified: No



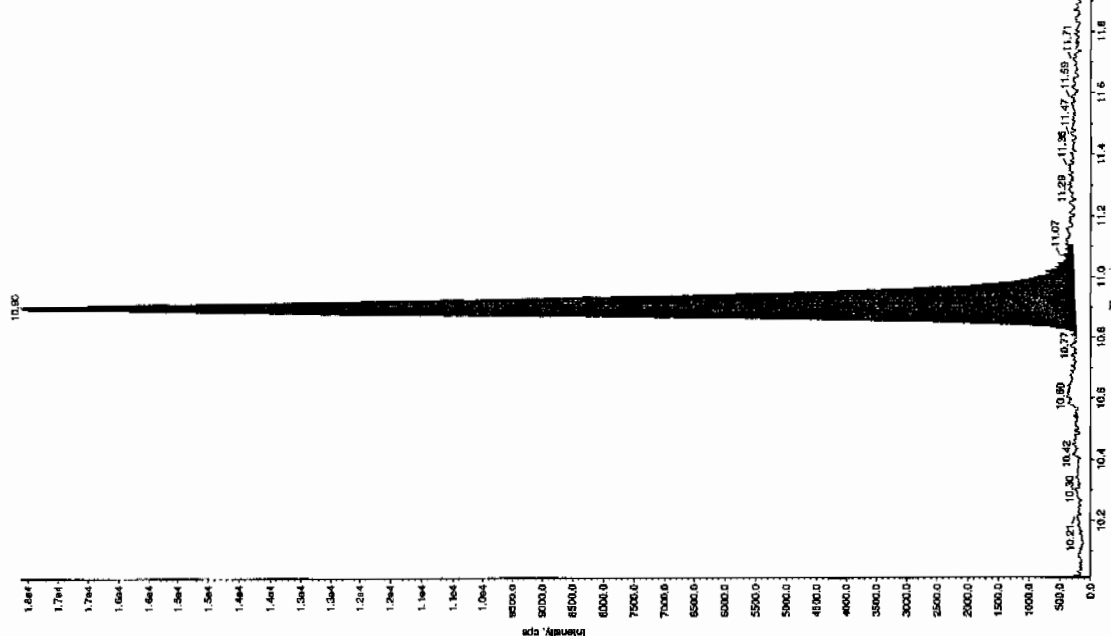
Sample Name: "YELUOS" Sample ID: "111EP" File: "EVS02170038.wif"
 Peak Name: "24-Dinitrotoluene" Mass(es): "182.0151.9 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:07:17 PM
 Modified: No



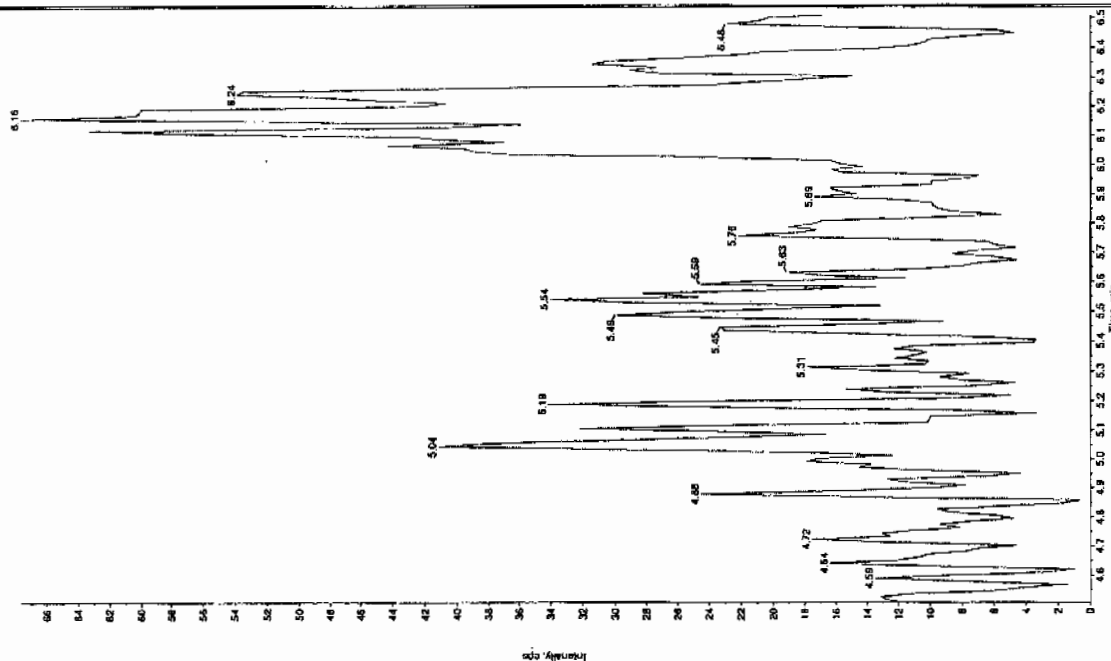
Sample Name: "XBLK05" Sample ID: "J1LER" File: "EX502170038.will"
 Peak Name: "Tris(2-ethyl) phosphate" Mass(es): "388.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.34 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:07:17 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Peak Area: 17362.101 counts
 Height: 10.6 min
 Start Time: 11.1 min
 End Time: 11.1 min



Sample Name: "XBLK05" Sample ID: "J1LER" File: "EX502170038.will"
 Peak Name: "24-Diamino-2-nitroethanol" Mass(es): "168.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/2010
 Acq. Date: 7:07:17 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1470

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 17-FEB-10 20:41

GEL Data File: EXS02170044.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.52
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Ken 2/19/10

Sample Name: "XIBLX06" Sample ID: "TILLER" File: "EXS0217004.wif"

Peak Name: "TATB" Mass(es): "257.22049 amu"

Comment: "LOMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

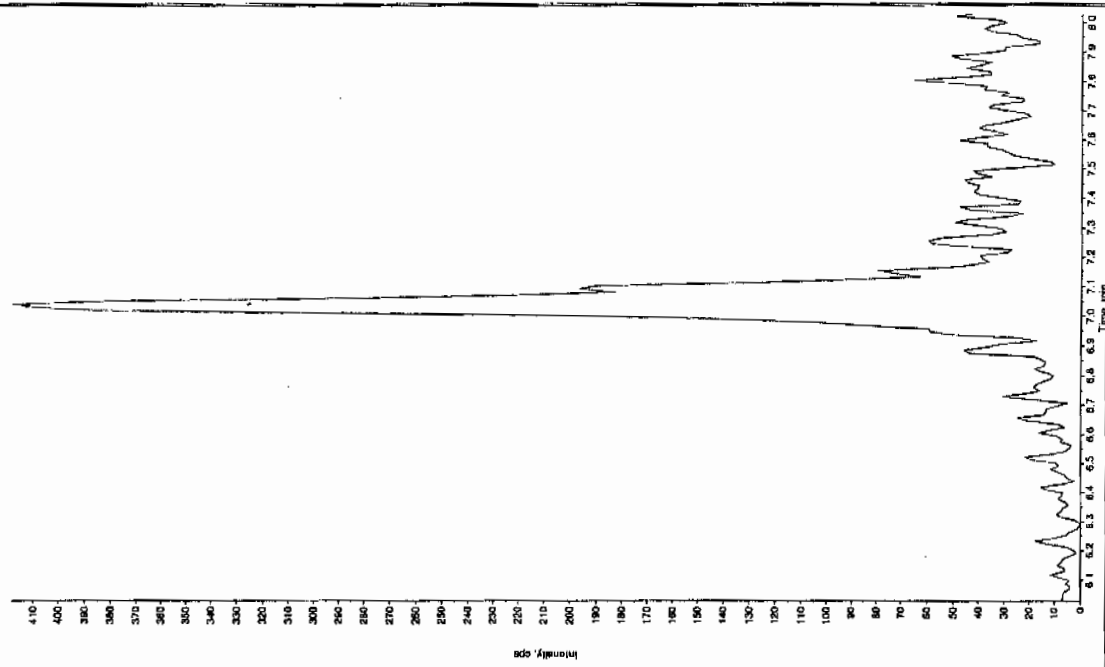
Concentration: 0.00 ng/mL

Calculated Conc: 2/17/2010

Acq. Date: 8/4/12 29 PM

Acq. Time: 8/4/12 29 PM

Modified: No



Sample Name: "XIBLX06" Sample ID: "TILLER" File: "EXS0217004.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.0460 amu"

Comment: "LOMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

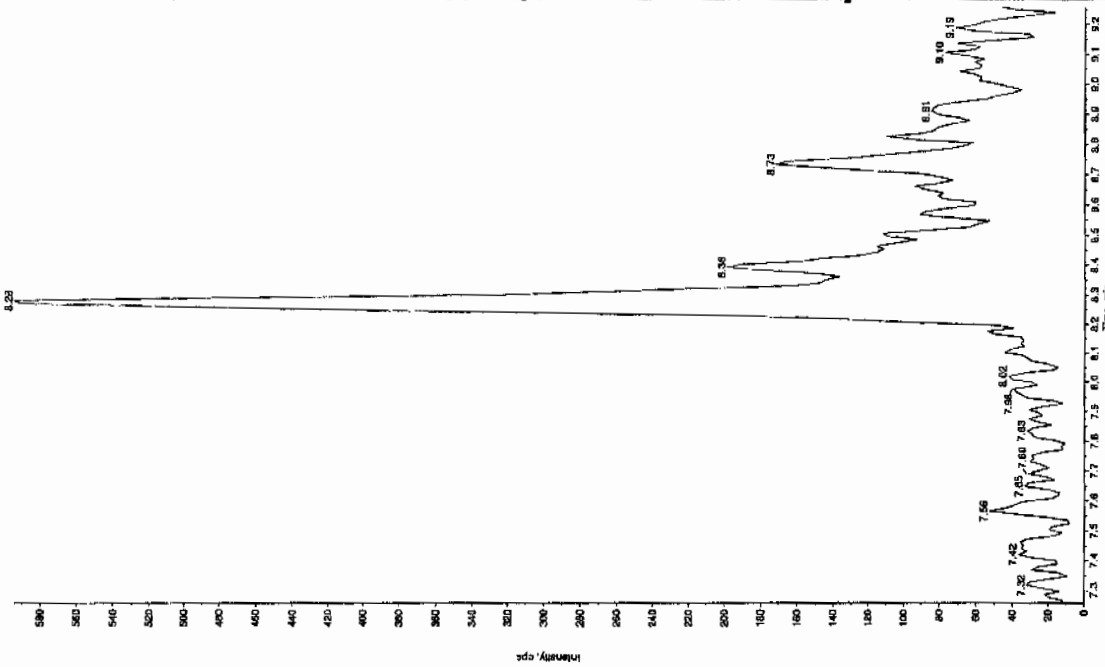
Concentration: 0.00 ng/mL

Calculated Conc: 2/17/2010

Acq. Date: 8/4/12 29 PM

Acq. Time: 8/4/12 29 PM

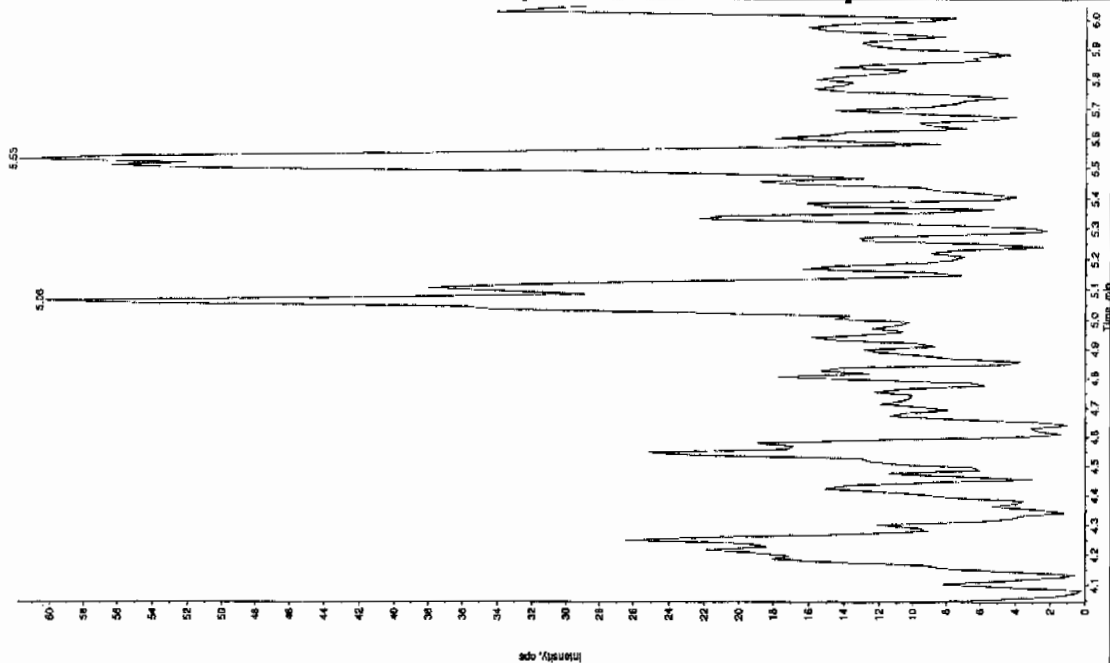
Modified: No



Ken 02/19/10

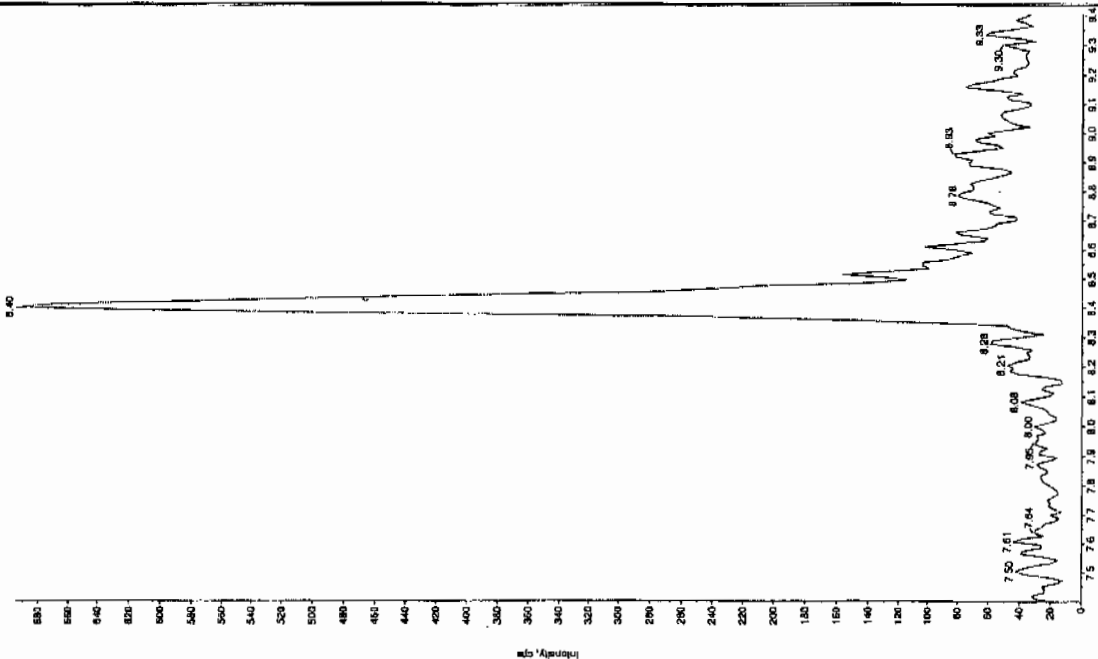
Sample Name: "XBLK08" Sample ID: "HLEP" File: "EX302170044.wif"
 Peak Name: "26-Dienop-4-methanol" Mass(es): "166.0460 amu"
 Comment: "LCMSEXP_8" Annotation: "1"

Sample Index: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 8:41:29 PM
 Acq. Time: 8:41:29 PM
 Modified: No



Sample Name: "XBLK08" Sample ID: "HLEP" File: "EX302170044.wif"
 Peak Name: "34-Dienop-4-methanol" Mass(es): "182.1151 amu"
 Comment: "LCMSEXP_8" Annotation: "1"

Sample Index: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 8:41:29 PM
 Acq. Time: 8:41:29 PM
 Modified: No



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

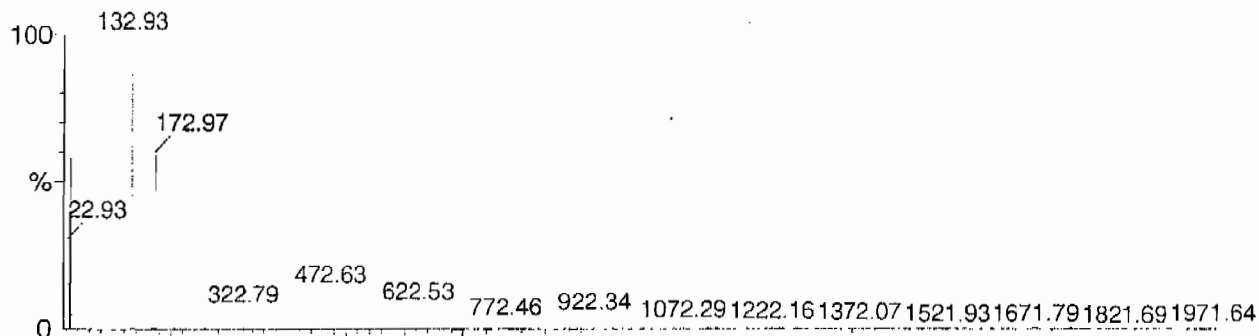
Calibration Report - MS1 Static

Page 1 of 1

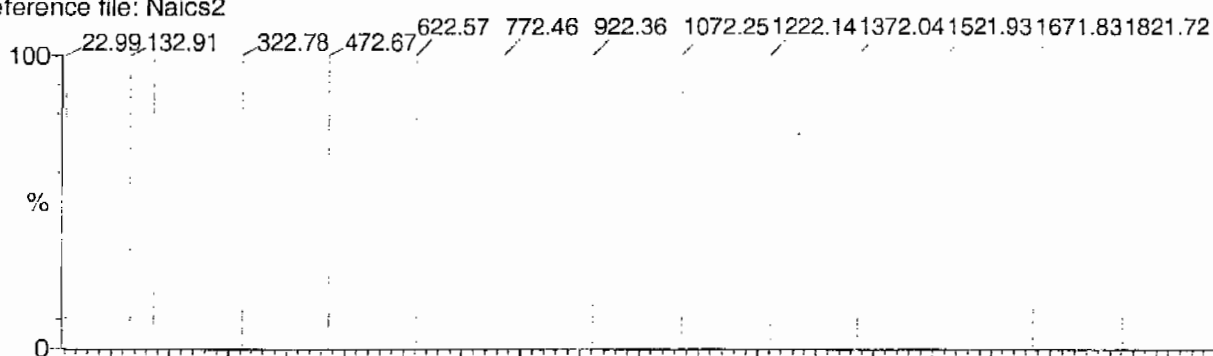
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

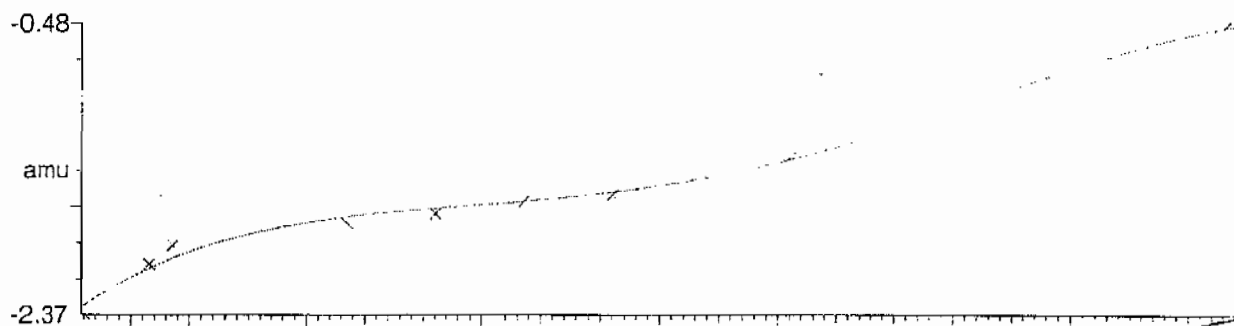
15 matches of 15 tested references



Reference file: Naics2

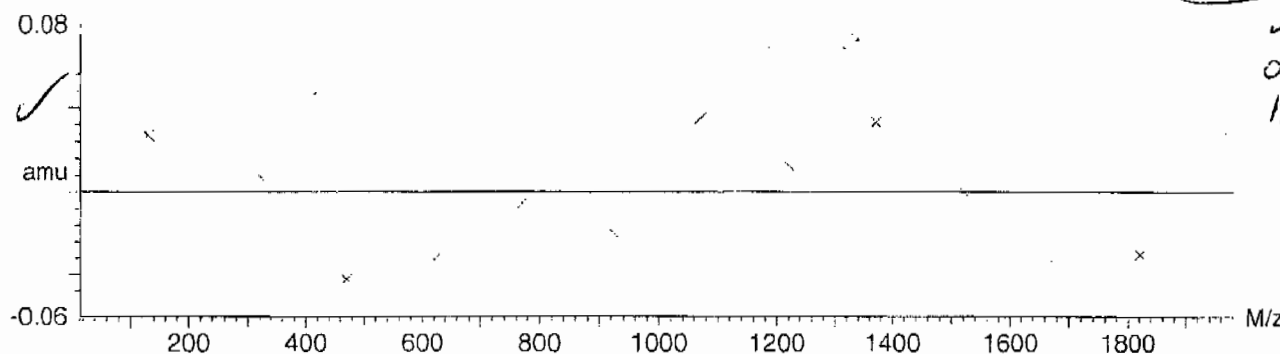


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-1.673470 \times 10^{-9} \pm 0.036953$



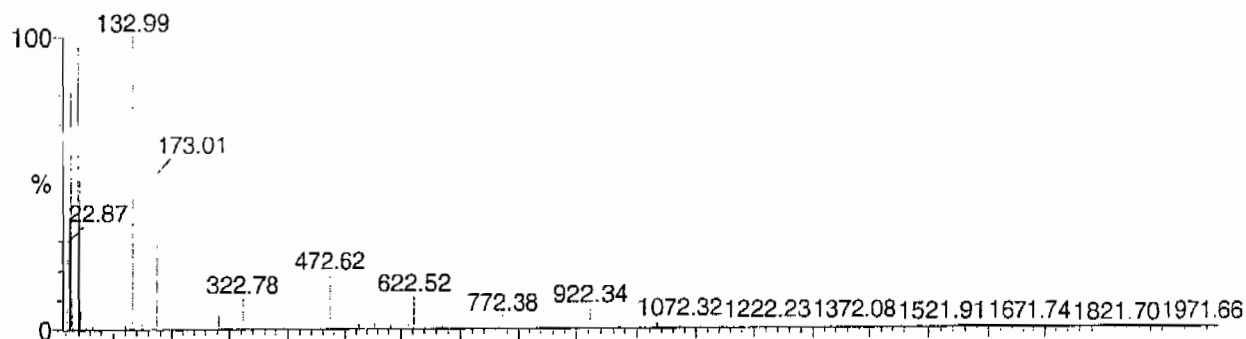
Calibration Report - MS1 Scanning

Page 1 of 1

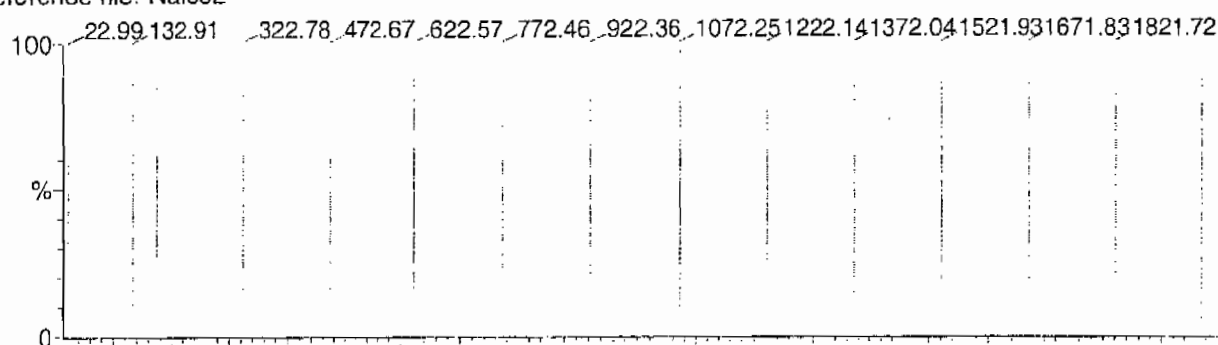
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

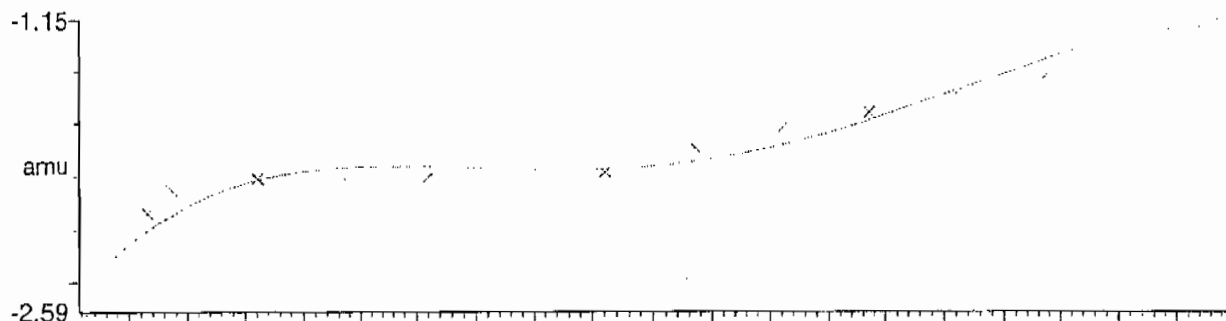
15 matches of 15 tested references:



Reference file: Naics2

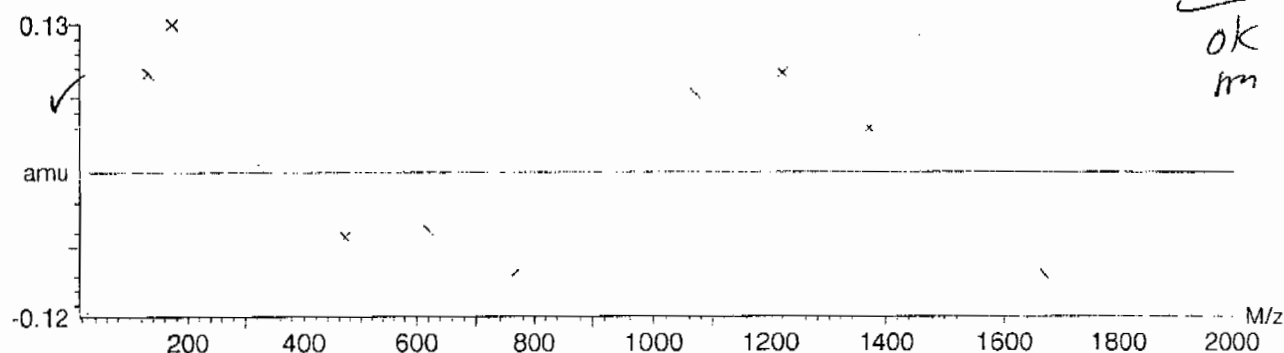


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-5.432715 \times 10^{-9} \pm 0.069858$



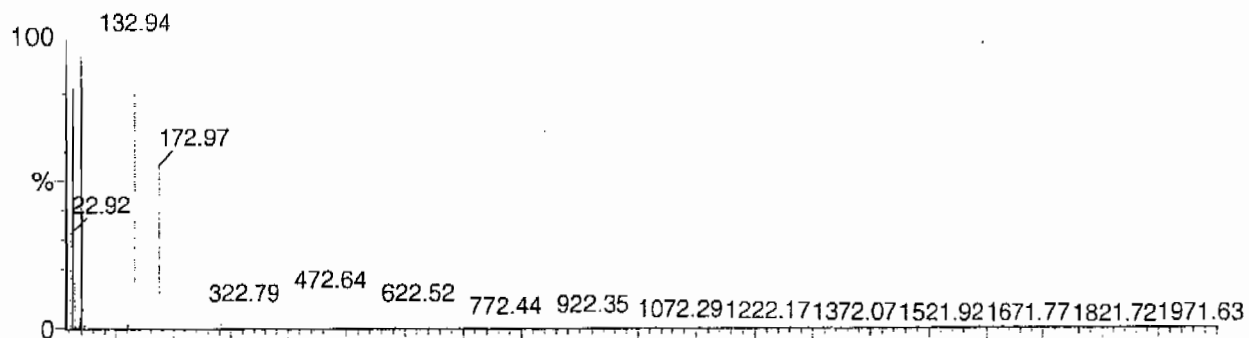
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

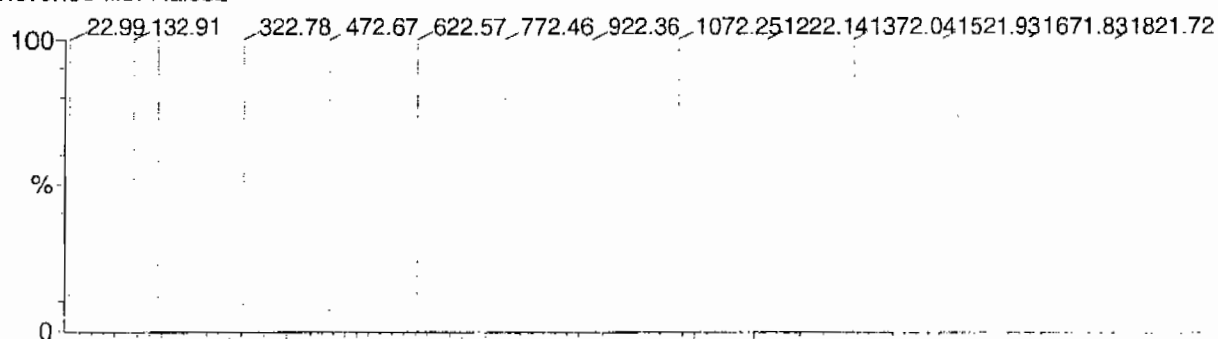
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

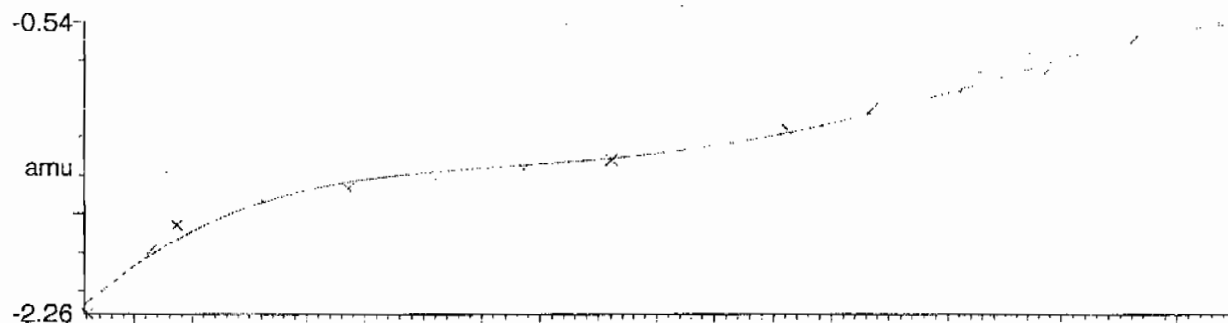
15 matches of 15 tested references



Reference file: Naics2

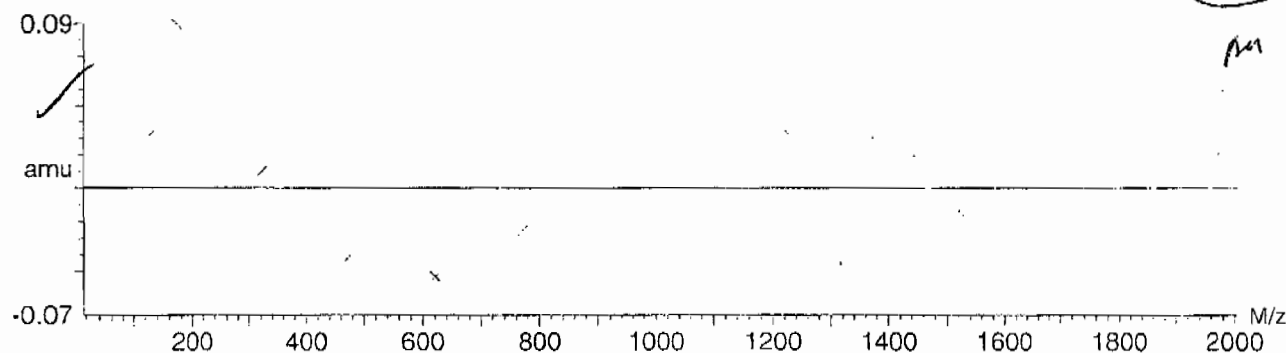


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639 \times 10^{-9} \pm 0.040487$



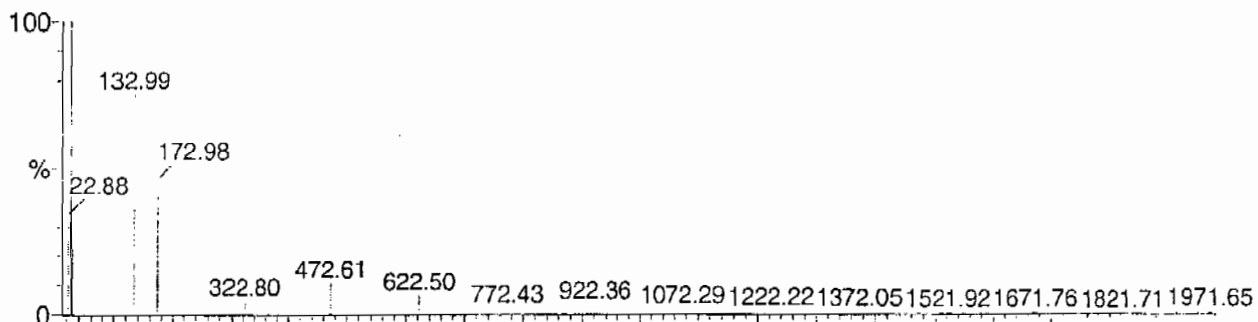
Calibration Report - MS2 Static

Page 1 of 1

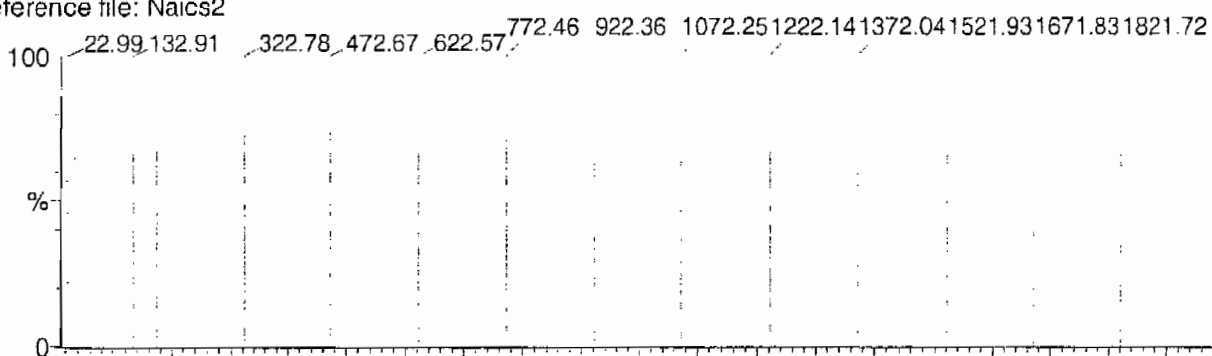
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

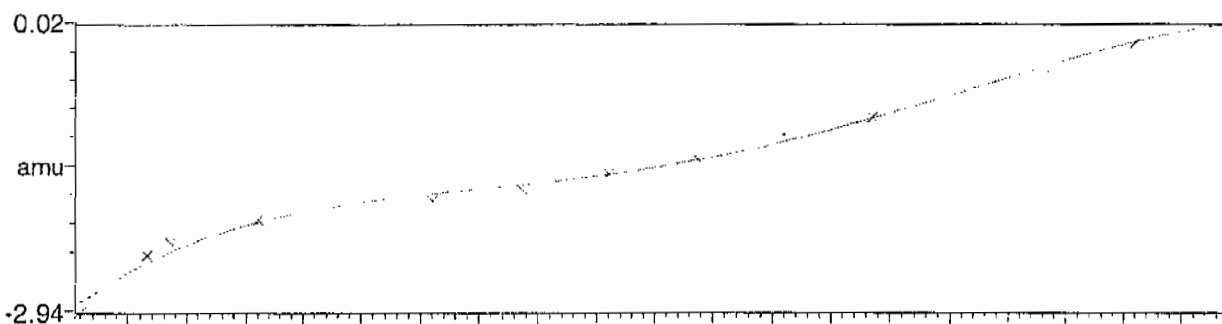
15 matches of 15 tested references



Reference file: Naics2

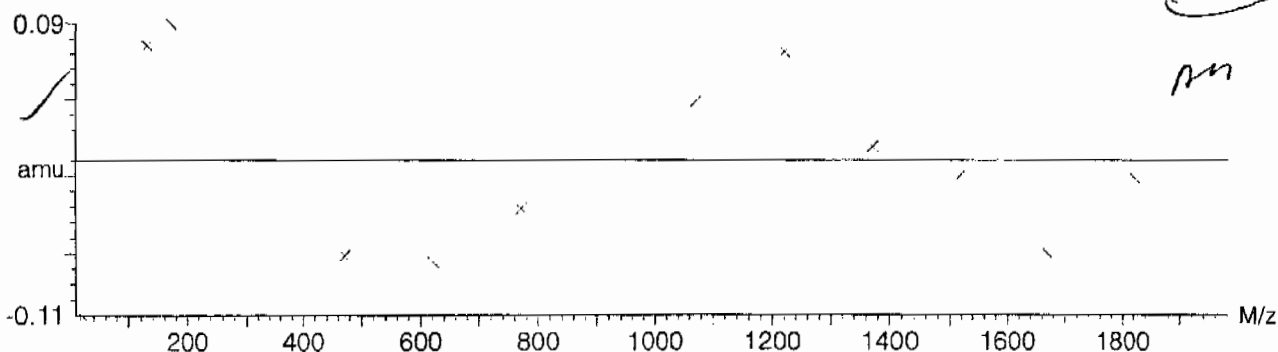


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910e-9 \pm 0.057803$



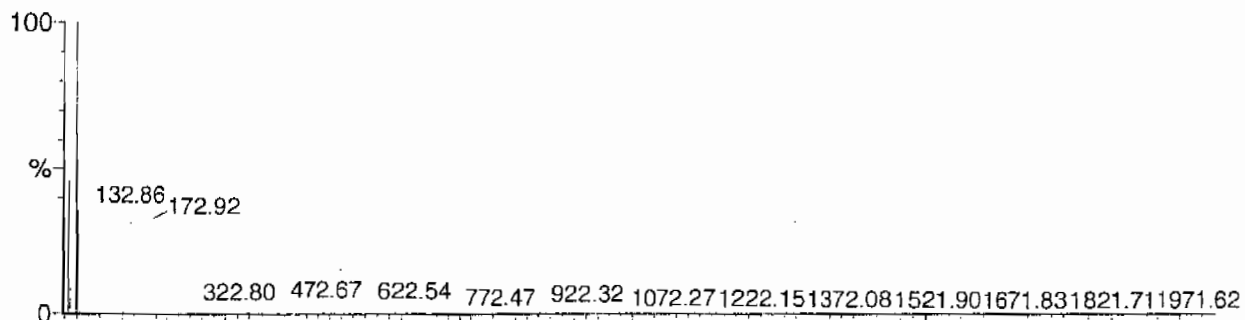
Calibration Report - MS2 Scanning

Page 1 of 1

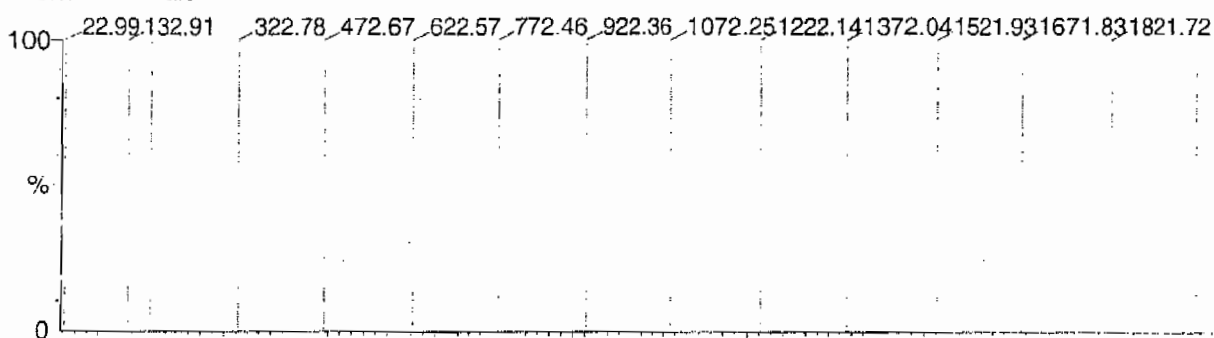
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

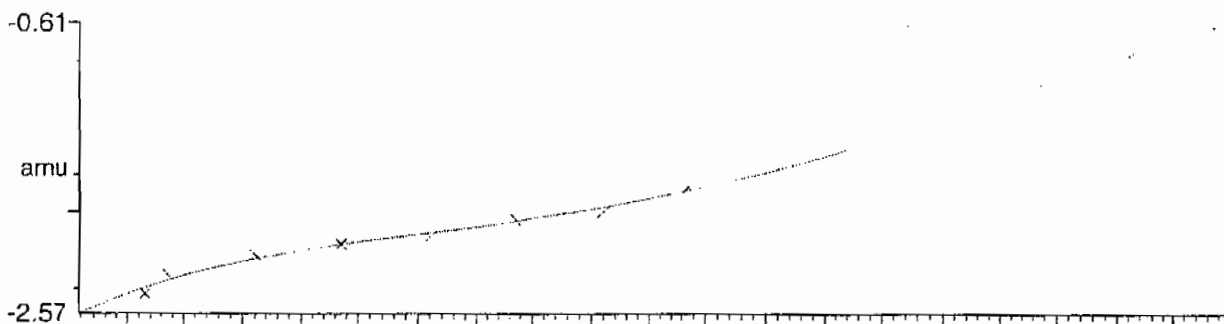
14 matches of 15 tested references



Reference file: Naics2

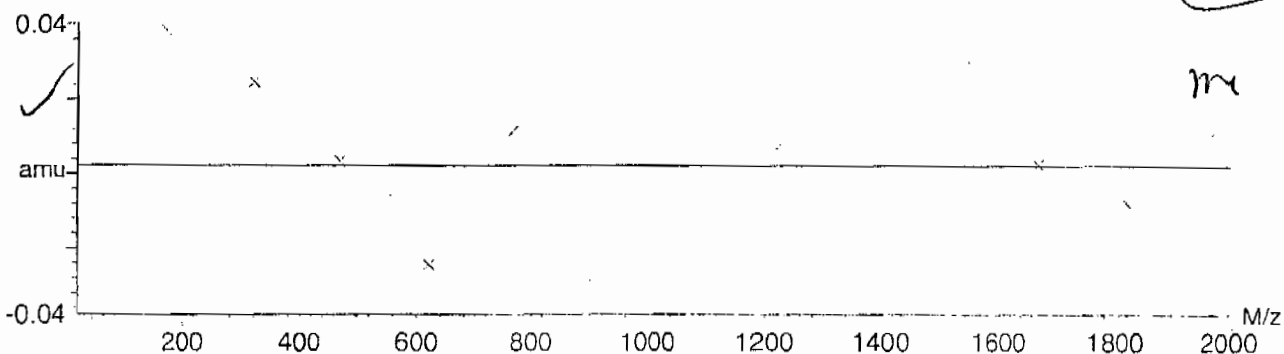


Mass difference (Raw - Ref mass)



Residuals

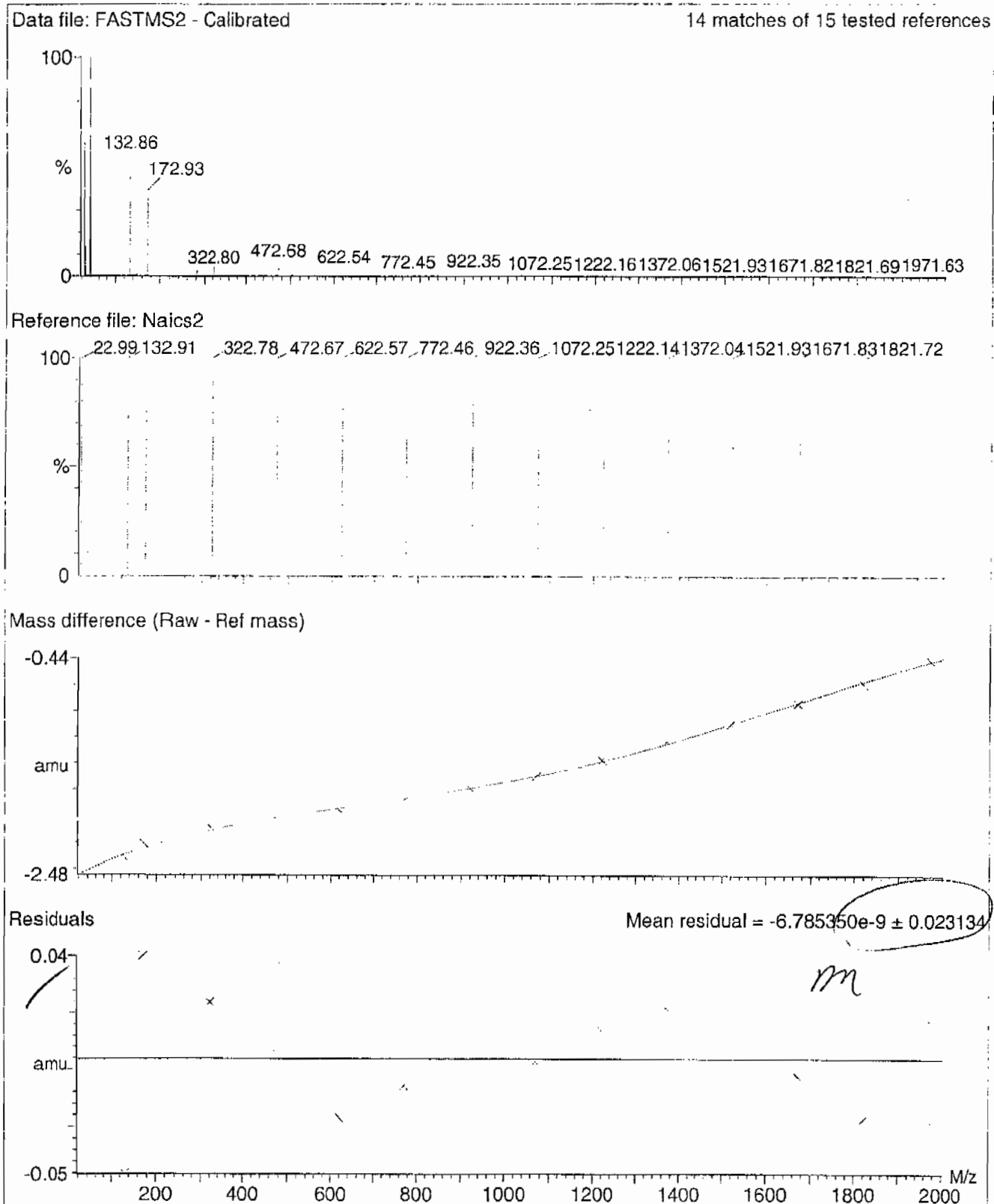
Mean residual = $-2.623502 \times 10^{-9} \pm 0.025622$



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Fri Aug 25 10:54:54 2006

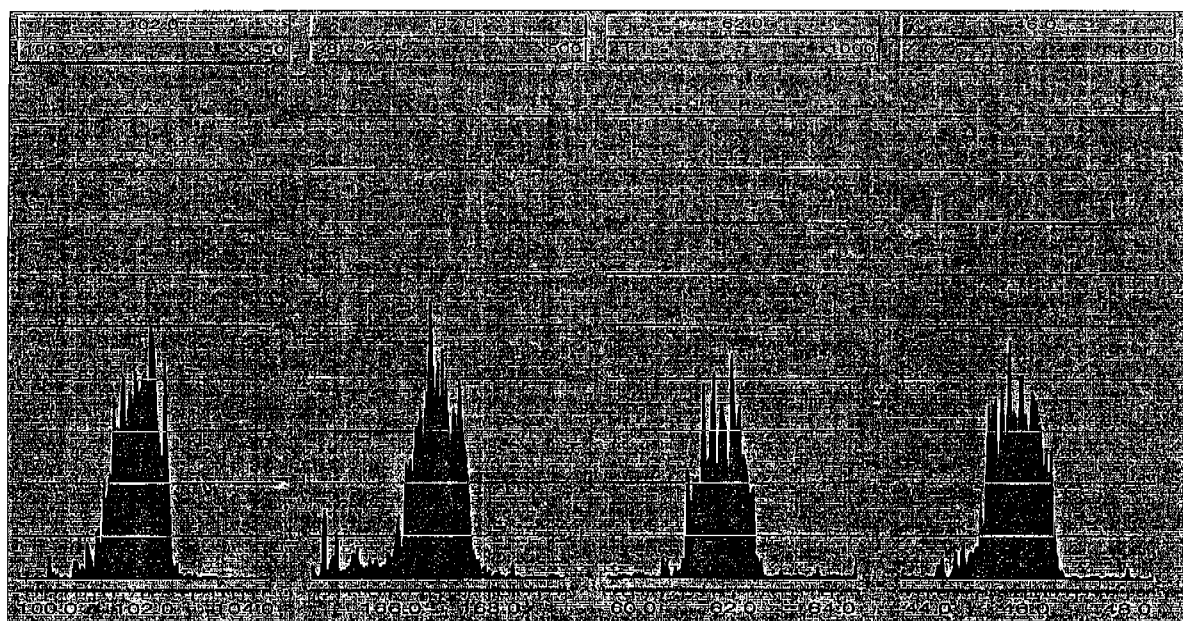


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNX\NEW_EXP.PROVACQUDB\explosives04.IPR

Printed : Tue Feb 16 13:37:41 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

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) #
			3012.417	12.049	17408.567	17.428
Upper Limit			3916.1421	12.549	22631.1371	17.928
Lower Limit			2108.6919	11.549	12185.9969	16.928
MB for batch 947088	20-feb-10 09:55	EXP0216180a	2931.37	12.064	16797.3	17.433
LCS for batch 947088	20-feb-10 10:25	EXP0216181a	2819.01	12.03	15449.9	17.411
RE15-10-7888	20-feb-10 10:55	EXP0216182a	2661.59	12.067	15490.3	17.422
RE15-10-7888(245795001MS)	20-feb-10 11:25	EXP0216183a	3134.02	12.067	17126.2	17.423
RE15-10-7888(245795001MSD)	20-feb-10 11:54	EXP0216184a	2881.06	12.065	15184	17.433
RE15-10-7890	20-feb-10 12:24	EXP0216185a	2670.33	12.033	14398.7	17.422
RE15-10-7886	20-feb-10 12:54	EXP0216186a	2475.78	12.067	14096.8	17.422
RE15-10-7889	20-feb-10 13:23	EXP0216187a	2636.12	12.03	14026.4	17.411
RE15-10-7885	20-feb-10 13:53	EXP0216188a	2575.51	12.033	13352.6	17.422
RE15-10-7882	20-feb-10 14:23	EXP0216189a	2591.05	12.033	13905.9	17.423
RE15-10-7887	20-feb-10 16:21	EXP0216193a	2950.91	12.032	16494.6	17.422
RE15-10-7881	20-feb-10 16:51	EXP0216194a	2625.52	12.033	15390.9	17.422
RE15-10-7951	20-feb-10 17:20	EXP0216195a	2960.16	12.032	15856.8	17.422
RE15-10-7950	20-feb-10 17:50	EXP0216196a	2893.92	12.032	16189.8	17.422
RE15-10-7947	20-feb-10 18:19	EXP0216197a	2900.22	12.03	15293.1	17.433
RE15-10-7944	20-feb-10 18:49	EXP0216198a	2972.06	12.065	15040.4	17.412
RE15-10-7948	20-feb-10 19:19	EXP0216199a	2809.95	12.064	14995.9	17.433
RE15-10-7941	20-feb-10 19:48	EXP0216200a	2696.05	12.064	14578.7	17.433
RE15-10-7949	20-feb-10 20:18	EXP0216201a	2824.84	12.067	14483.3	17.423
RE15-10-7946	20-feb-10 20:48	EXP0216202a	2883.77	12.03	16109.5	17.434
RE15-10-7942	20-feb-10 22:46	EXP0216206a	3105.3	12.032	16257.4	17.444
RE15-10-7945	20-feb-10 23:15	EXP0216207a	2929.41	12.067	14001.5	17.422
RE15-10-7943	20-feb-10 23:45	EXP0216208a	2938.02	12.033	15126.3	17.423

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d2

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

High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

IS1 (DNB) = 1,3-Dinitrobenzene-d4

IS2 (DNT) = 2,6-Dinitrotoluene-d3

Area Upper Limit = + 30% of average IS area from multipoint calibration

Area Lower Limit = - 30% of average IS area from multipoint calibration

RT Upper Limit = +0.5 of average multipoint RT

RT Lower Limit = -0.5 of average multipoint RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits

SAMPLE DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216182a

Date Analyzed: 20-FEB-10 10:55

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Feb 21 12:01:24 2010, Page 5 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216182a

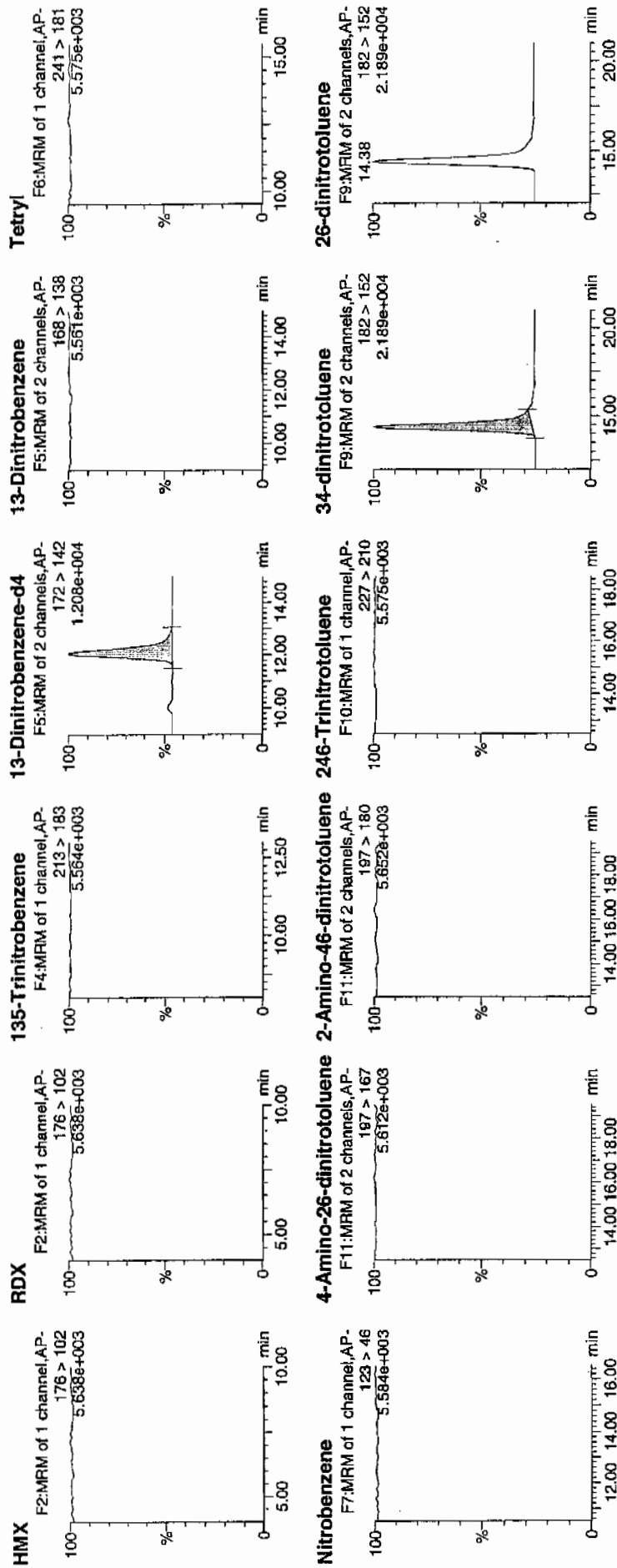
Date: 20-Feb-2010

Time: 10:55:29

ID: 245795001

Vial: 4:3,C

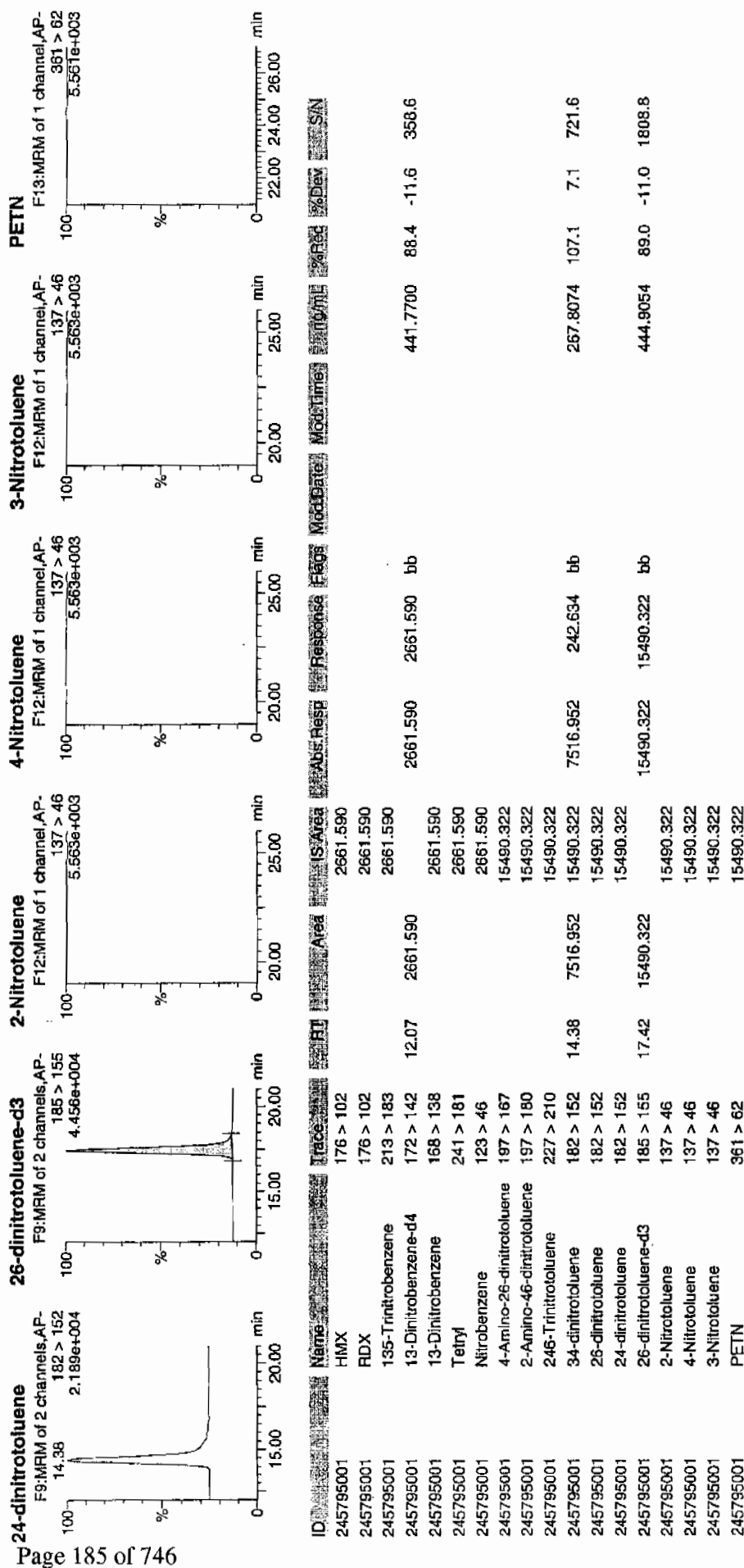
Handwritten: *WMP*
4/2/10
WMP 947089 / 2



Handwritten: *WMP 1/2/10*

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASS\SLY\N\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795001

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170016.wiff

Date Analyzed: 17-FEB-10 13:21

Units: ug/kg

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

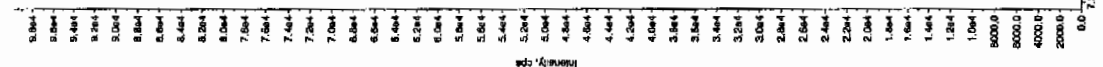
*Concentration =

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

Jan 21/9/10

Sample Name: 245765001 Sample ID: 245765001 File: EX02170016.wif
 Peak Name: 3S-Dallicouline Mass(es): 182.046.0 amu
 Comment: LCX032125 Annotation:

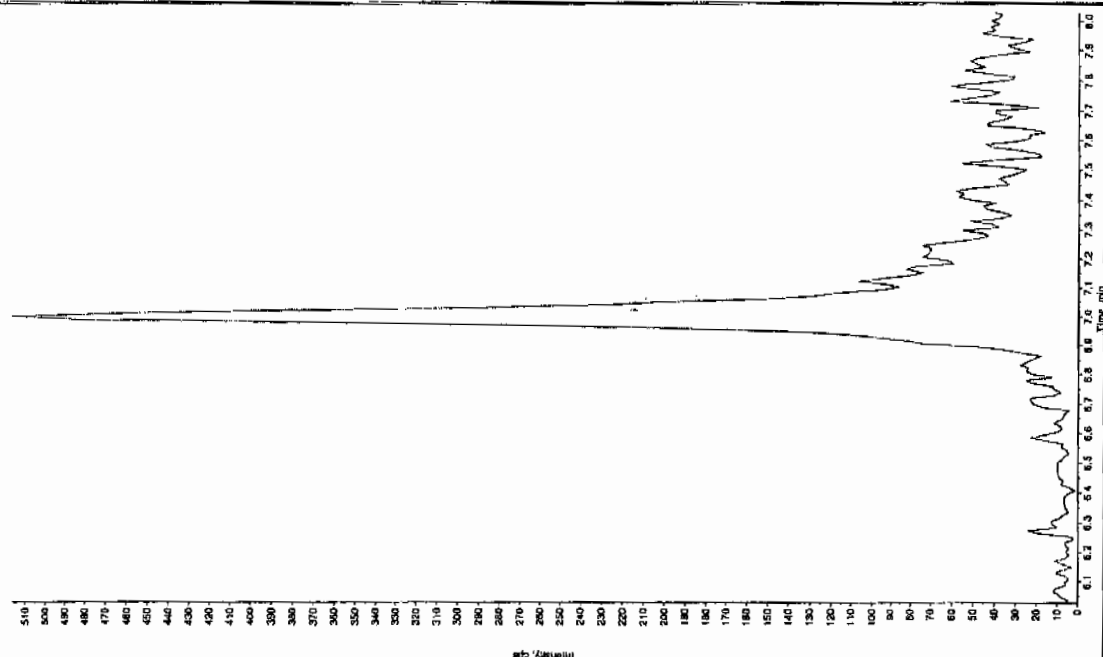
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM
 Modified: Yes



21/9/10

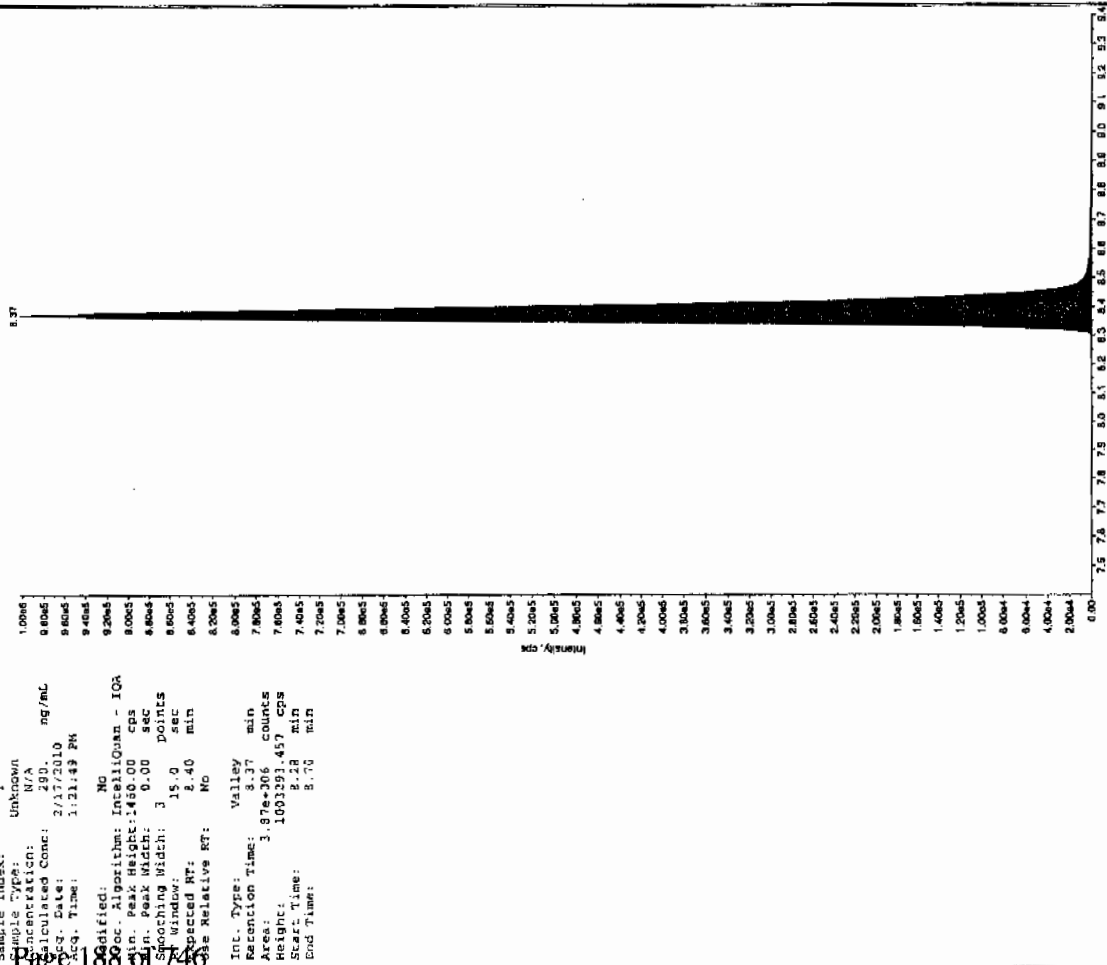
Sample Name: 245765001 Sample ID: 245765001 File: EX02170016.wif
 Peak Name: TAXIS Mass(es): 257.2204.9 amu
 Comment: LCX032125 Annotation:

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM
 Modified: No



Sample Name: "245795001" Sample ID: "245795001" File: "EXS2170016.wif"
 Peak Name: "162.17151.9" Mass(es): "162.17151.9 amu"
 Comment: "LDX62125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM
 Modified: No



Sample Name: "245795001" Sample ID: "245795001" File: "EXS2170016.wif"
 Peak Name: "162.17151.9" Mass(es): "162.17151.9 amu"
 Comment: "LDX62125" Annotation: ""

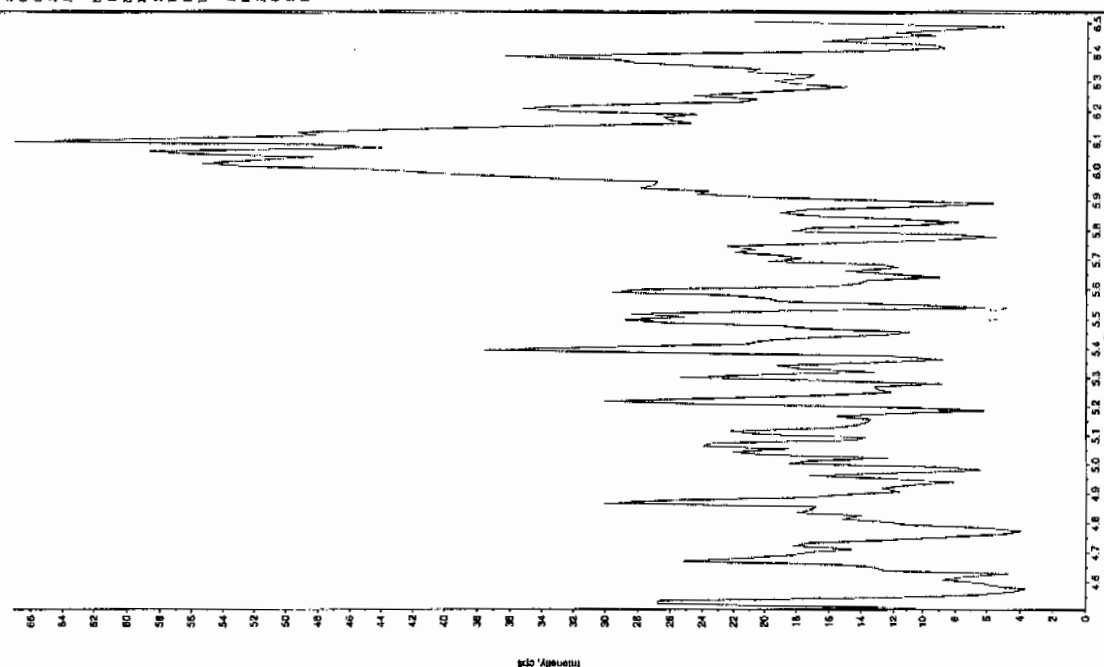
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 290. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - ICA
 Int. Peak Height: 1480.00 cps
 Int. Peak Area: 3.87e+306 counts
 Smoothing Width: 3 0.00 points
 Start Window: 15.0 sec
 Expected RT: 8.40 min
 Obs. Relative RT: No
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 3.87e+306 counts
 Height: 1001291.457 cps
 Start Time: 8.28 min
 End Time: 8.70 min

Sample Name: "245795001" Sample ID: "94708921.ER" File: "EXS02170016.wif"
 Peak Name: "Tris(2-chlorophenyl) phosphite" Mass(es): "389.1/91.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/40.0
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM

Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.20 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.30e+004 counts
 Height: 17561.000 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "245795001" Sample ID: "94708921.ER" File: "EXS02170016.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "156.0/46.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/20.0
 Acq. Date: 2/17/2010
 Acq. Time: 1:21:49 PM

Modified: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.30e+004 counts
 Height: 17561.000 cps
 Start Time: 10.8 min
 End Time: 11.1 min

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 9.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216185a

Date Analyzed: 20-FEB-10 12:24

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 11 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216185a

Date: 20-Feb-2010

Time: 12:24:56

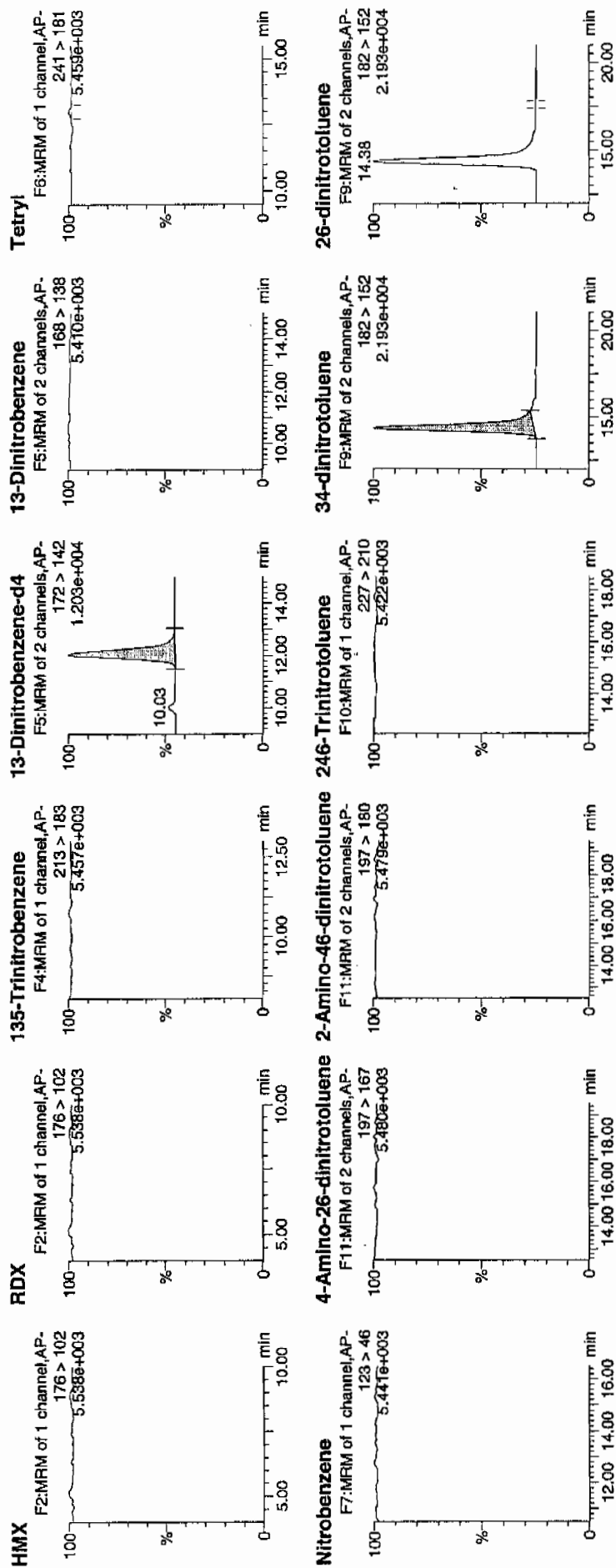
ID: 245795002

Vial: 4:3,F

4/2/10

742089 / 8022 / 2

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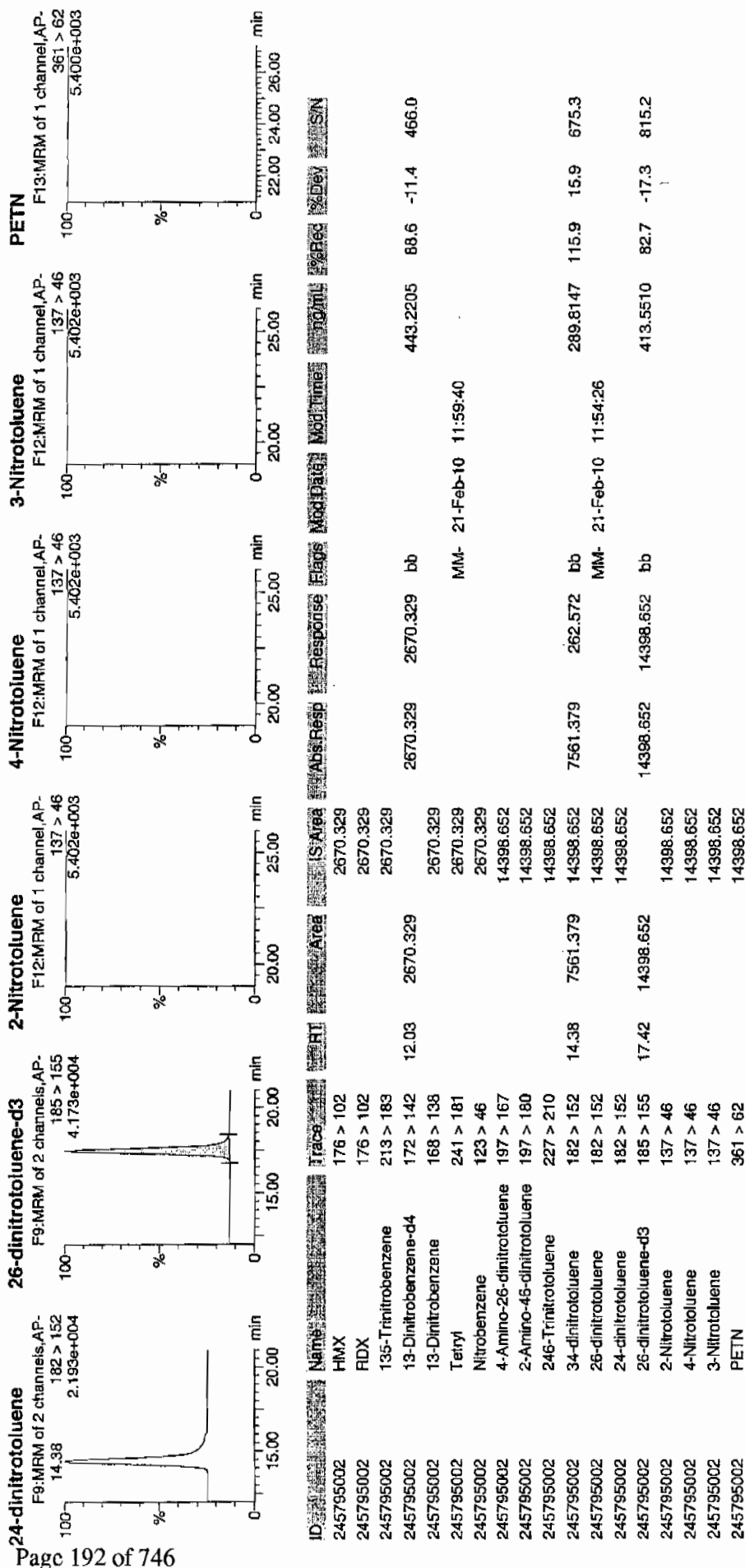
4/2/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Feb 21 12:01:24 2010, Page 12 of 105

Dataset: C:\MASSLYNX\New_Exp\PROV021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7890

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795002

Sample Amount 2

Moisture: 9.8

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170019.wiff

Date Analyzed: 17-FEB-10 14:08

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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Jan 2/19/10

Sample Name: "245795002" Sample ID: "S4708921" File: "EXS02170013.will"

Peak Name: "35-Chloroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX82125" Annotation: "

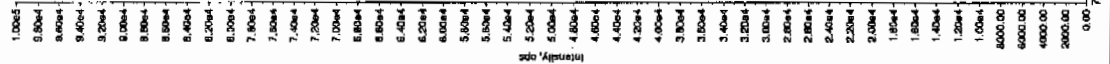
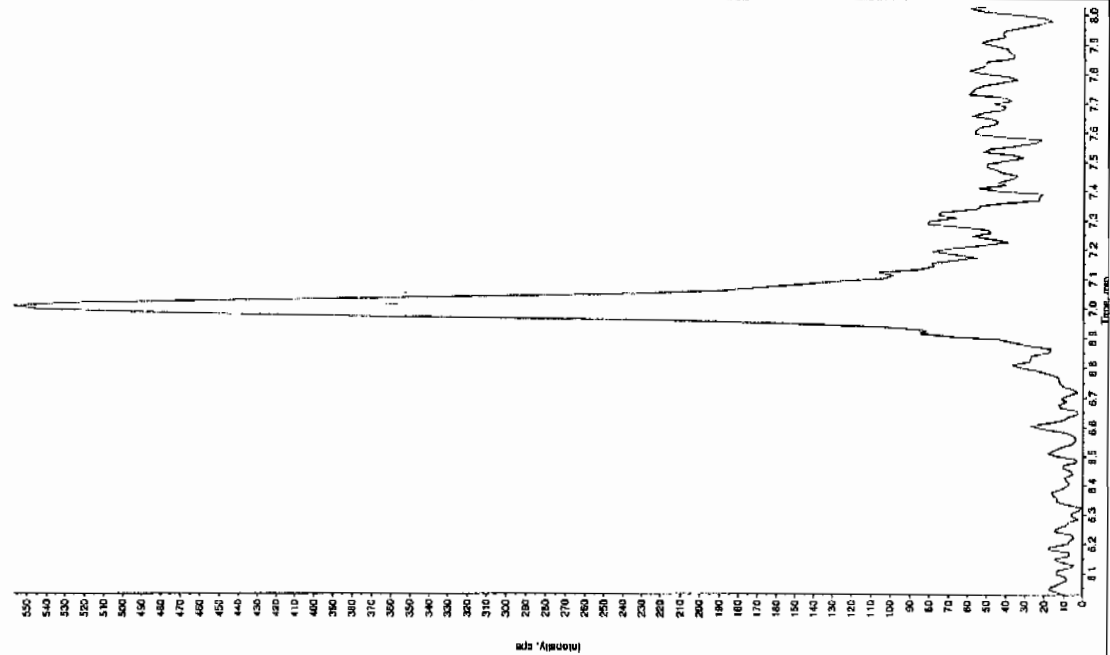
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2.117/013
 Acq. Time: 2.08:54 PM
 Modified: Yes

Sample Name: "245795002" Sample ID: "S4708921" File: "EXS02170013.will"

Peak Name: "TATB" Mass(es): "257.29204.9 amu"

Comment: "LCX82125" Annotation: "

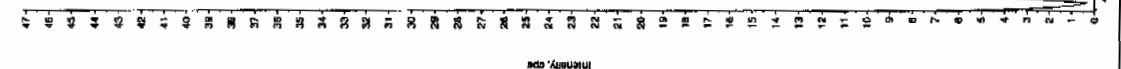
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2.117/2010
 Acq. Time: 2.08:54 PM
 Modified: No



Jan 2/19/10

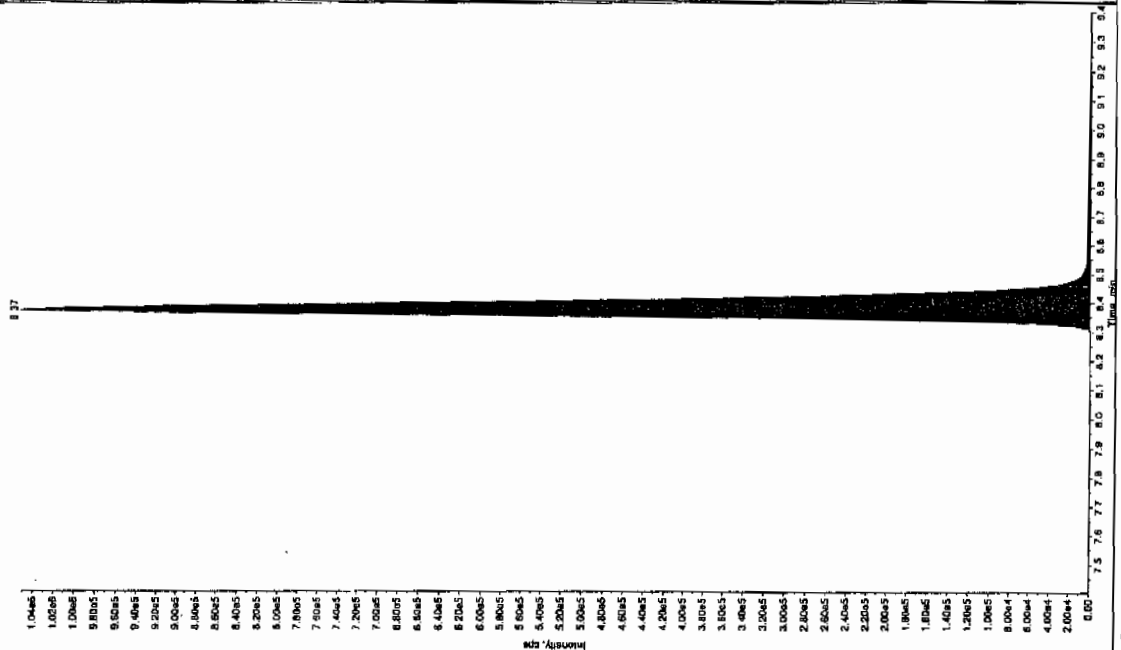
Sample Name: 24578502 Sample ID: 947089JLER File: EXS02170019.wif
 Peak Name: 26-Diarrho-4-nitrofluorene Mass(es): 186.046.0 amu
 Comment: LCX832125 Annotation: *

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:08:54 PM
 Modified: No



Sample Name: 24578502 Sample ID: 947089JLER File: EXS02170019.wif
 Peak Name: 26-Diarrho-4-nitrofluorene Mass(es): 186.046.0 amu
 Comment: LCX832125 Annotation: *

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:08:54 PM
 Modified: No
 Int. Type: Valley
 Retention Time: 2.37 min
 Area: 3.92e+006 counts
 Height: 1051982.788 cps
 Start Time: 2.28 min
 End Time: 2.71 min

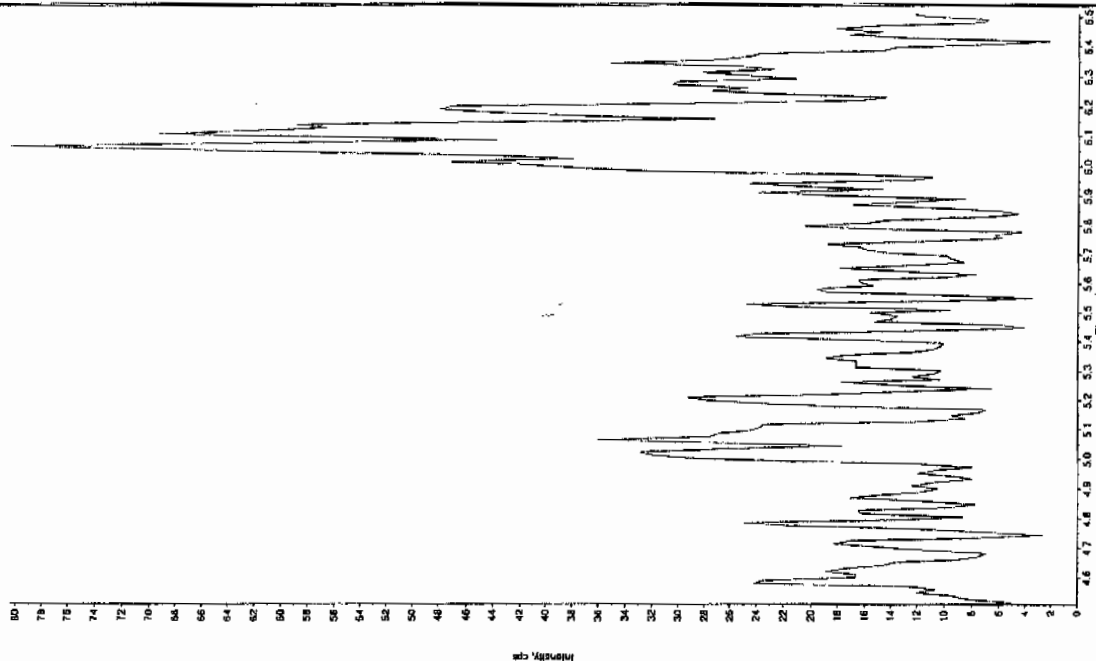


Sample Name: "245795002" Sample ID: "94708924.ER" File: "EXS02170019.wif"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/3010 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:03:54 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 6.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.75e+004 counts
 Height: 18690.472 cps
 Start Time: 10.7 min
 End Time: 11.1 min

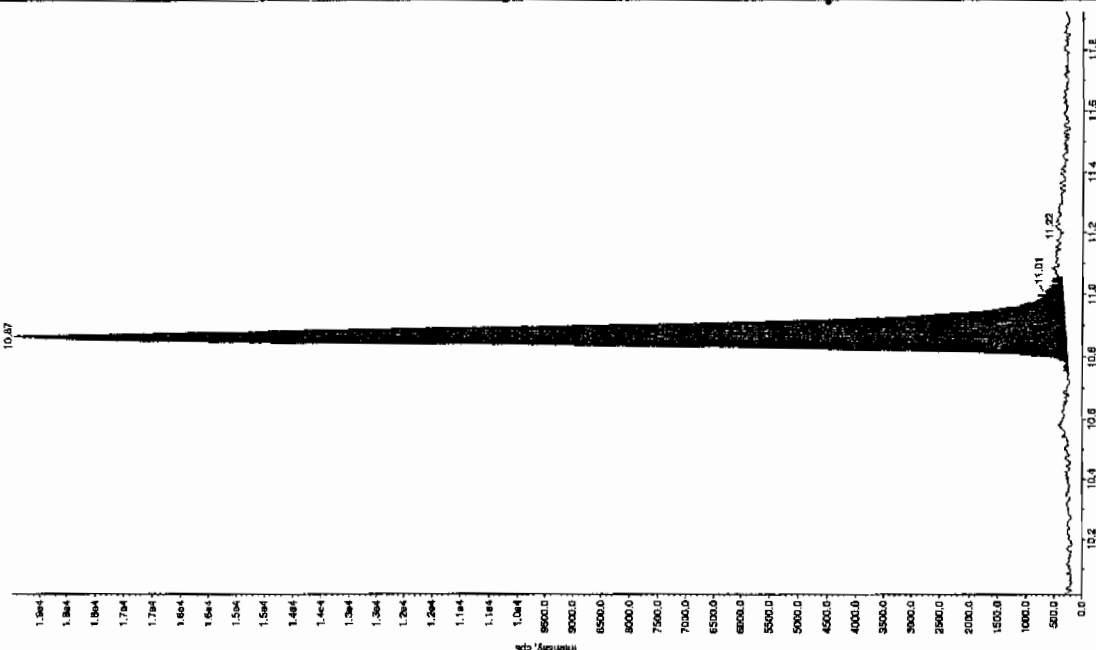


Sample Name: "245795002" Sample ID: "94708924.ER" File: "EXS02170019.wif"
 Peak Name: "bis(o-cresyl)phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/3010 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:03:54 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 6.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 7.75e+004 counts
 Height: 18690.472 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: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216186a

Date Analyzed: 20-FEB-10 12:54

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0216186a

Date: 20-Feb-2010

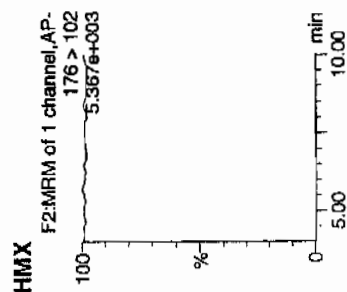
Time: 12:54:24

ID: 245795003

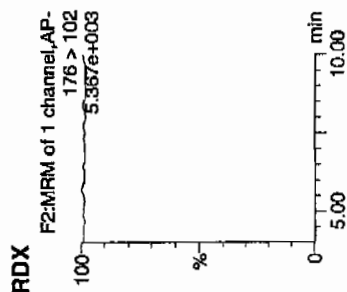
Vial: 4:4,A

of

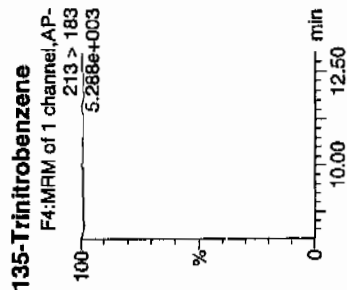
74



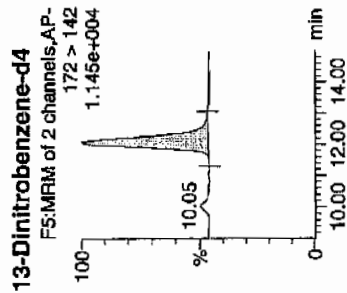
RDX



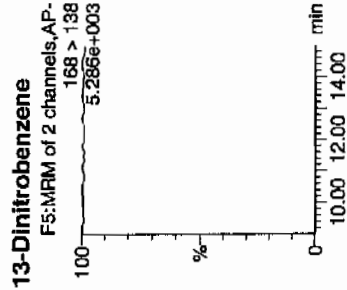
135-T



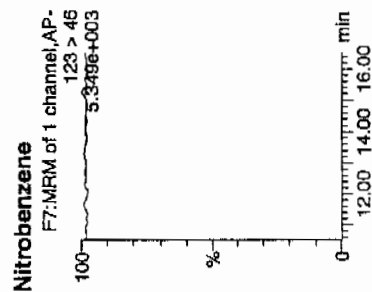
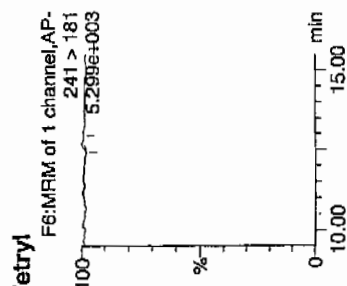
13-Di



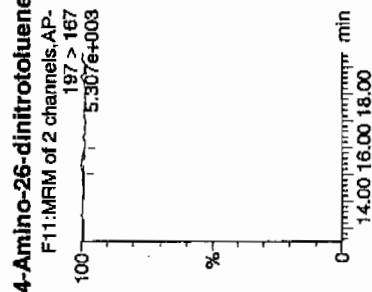
13-D



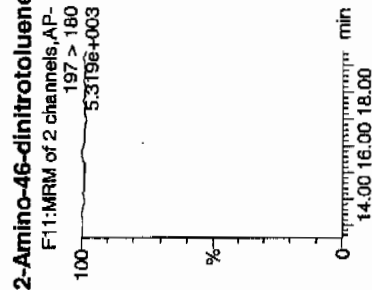
etryl



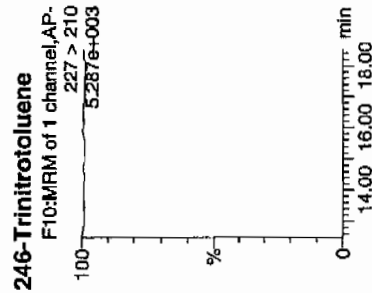
Nitrobenzene



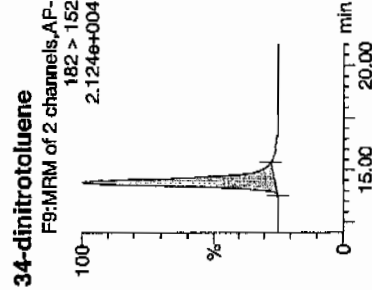
2-AM



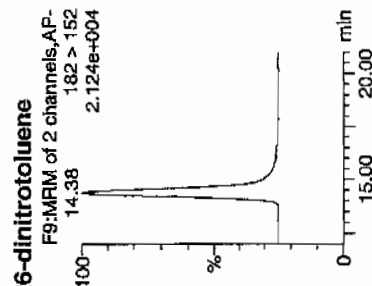
246-1



34-d:

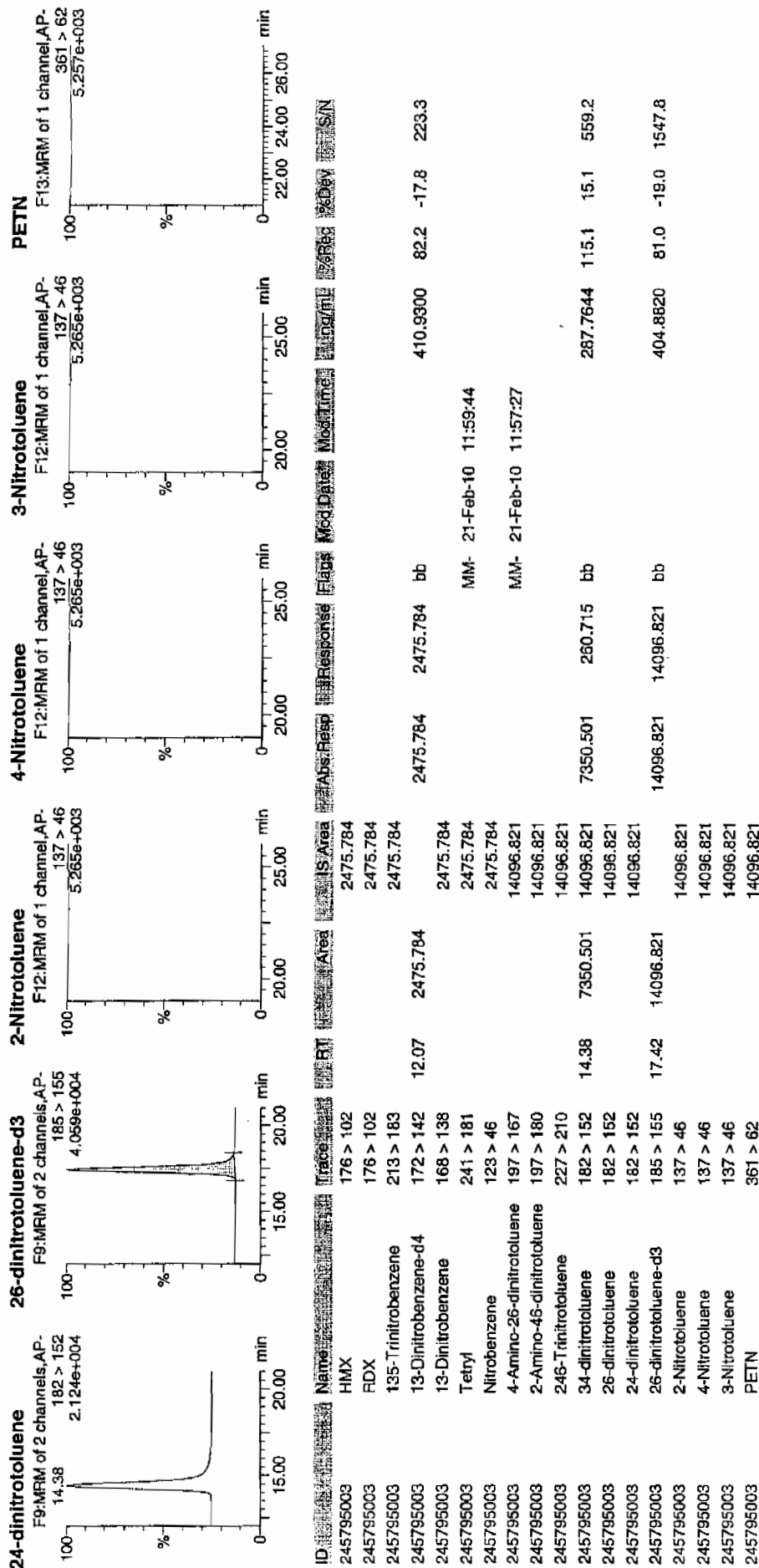


6-din



01/22/20

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7886

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795003

Sample Amount 2

Moisture: 6.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170020.wiff

Date Analyzed: 17-FEB-10 14:24

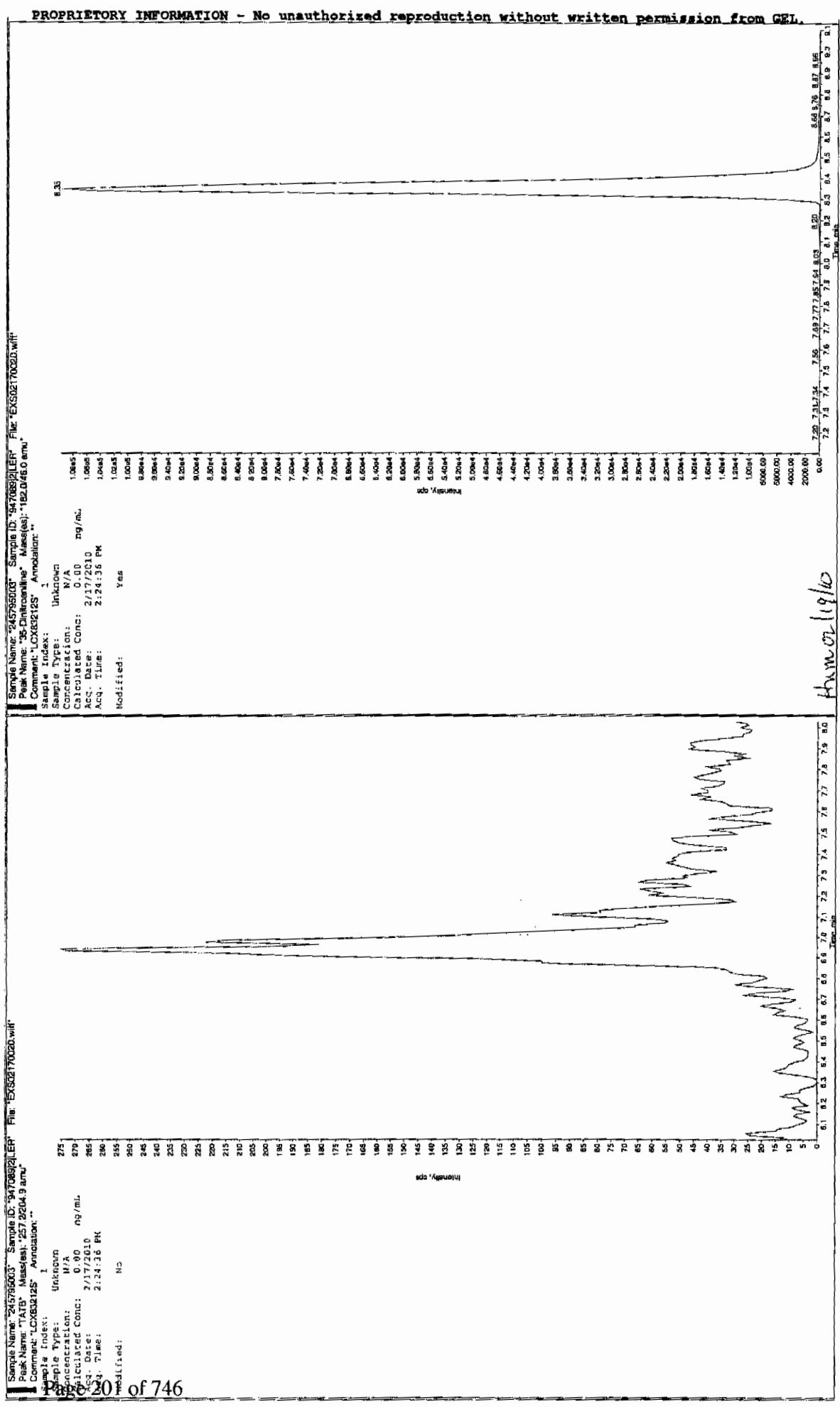
Units: ug/kg

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

Jan 21/10



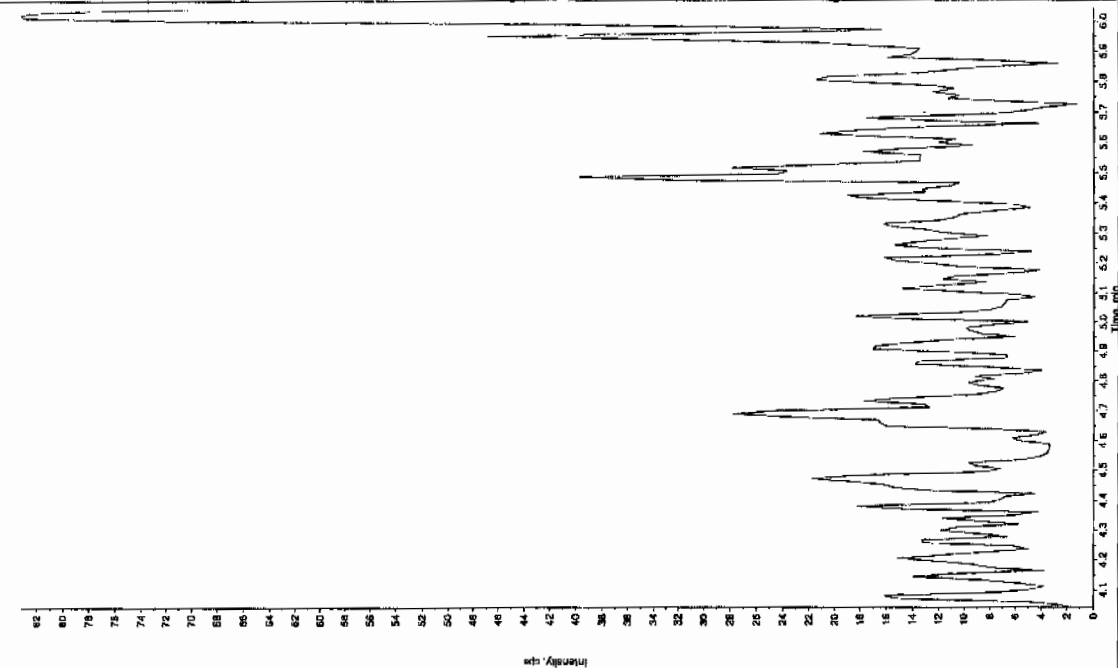
Humor 1/19/10

Sample Name: "24575003" Sample ID: "94708921.ER" File: "EX502170020.wif"

Peak Name: "24-Dinitro-4-nitrofluorene" Mass(es): "196.046.0 amu"

Comment: "LCX832125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:24:35 PM
 Modified: No



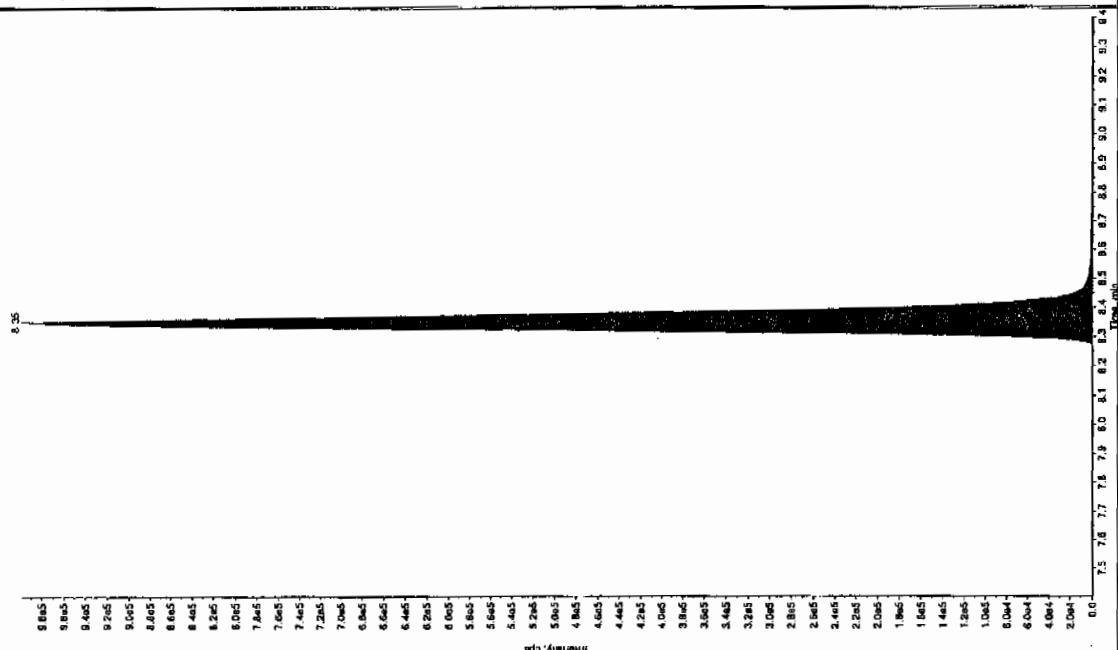
Sample Name: "24575003" Sample ID: "94708921.ER" File: "EX502170020.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"

Comment: "LCX832125" Annotation: "1"

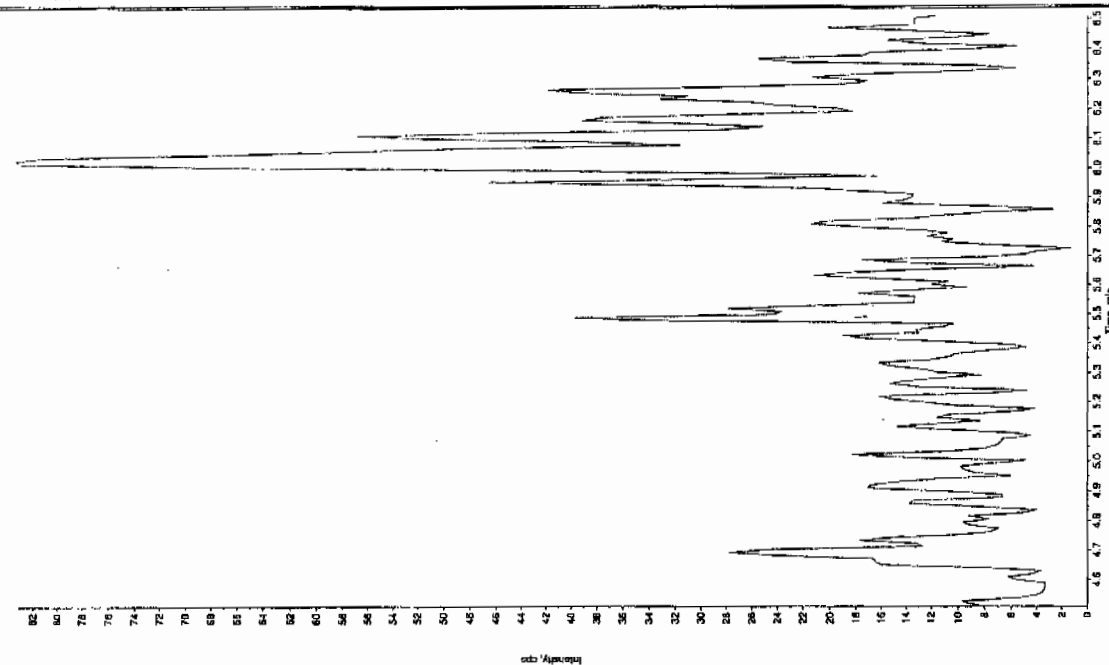
Sample Index: 1
 Sample Type: Unknown
 Concentration: 289 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 2:24:35 PM
 Acq. Time: 2:24:35 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Use Relative RT: No
 In. Type: Valley
 Retention Time: 7.445 min
 Peak Width: 0.856 min
 Peak Height: 3.85e+005 cps
 Start Time: 5.25 min
 End Time: 8.71 min



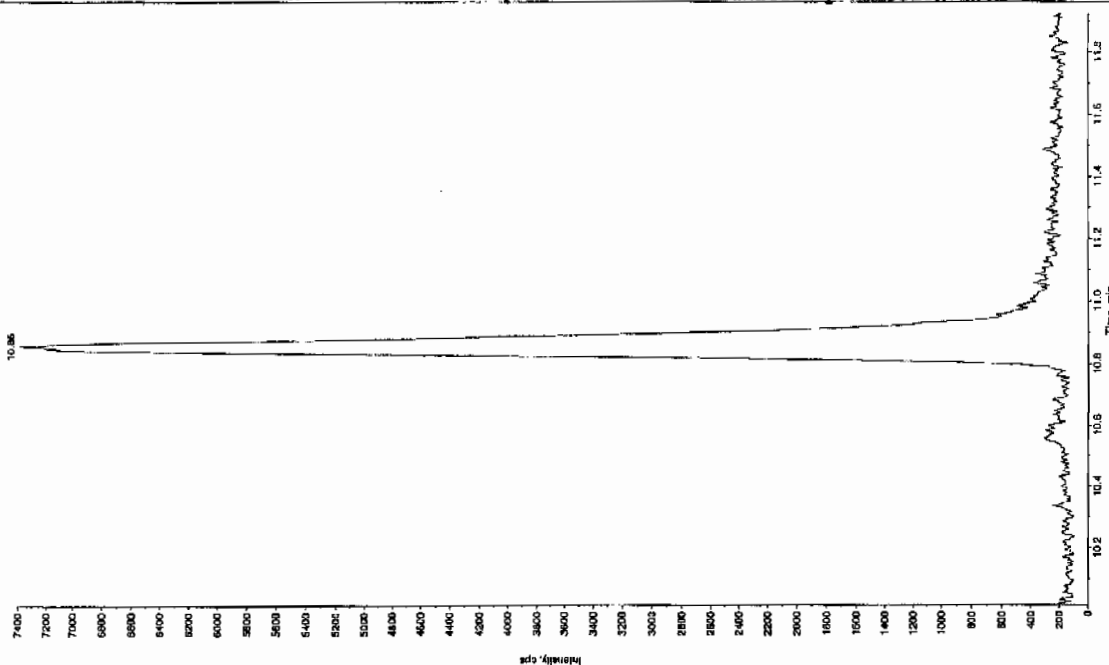
Sample Name: "245755003" Sample ID: "947089121ER" File: "EX502170020.will"
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046 0 amu"
 Comment: "LCX032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 2/24/10 PM
 Acq. Time: 2:24:36 PM
 Modified: No



Sample Name: "245755003" Sample ID: "947089121ER" File: "EX502170020.will"
 Peak Name: "bis(o-cresyl) phosphine" Mass(es): "366.191 0 amu"
 Comment: "LCX032125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 2/24/10 PM
 Acq. Time: 2:24:36 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216187a

Date Analyzed: 20-FEB-10 13:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	9530	
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene	500	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

Printed: Sun Feb 21 12:01:24 2010, Page 15 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216187a

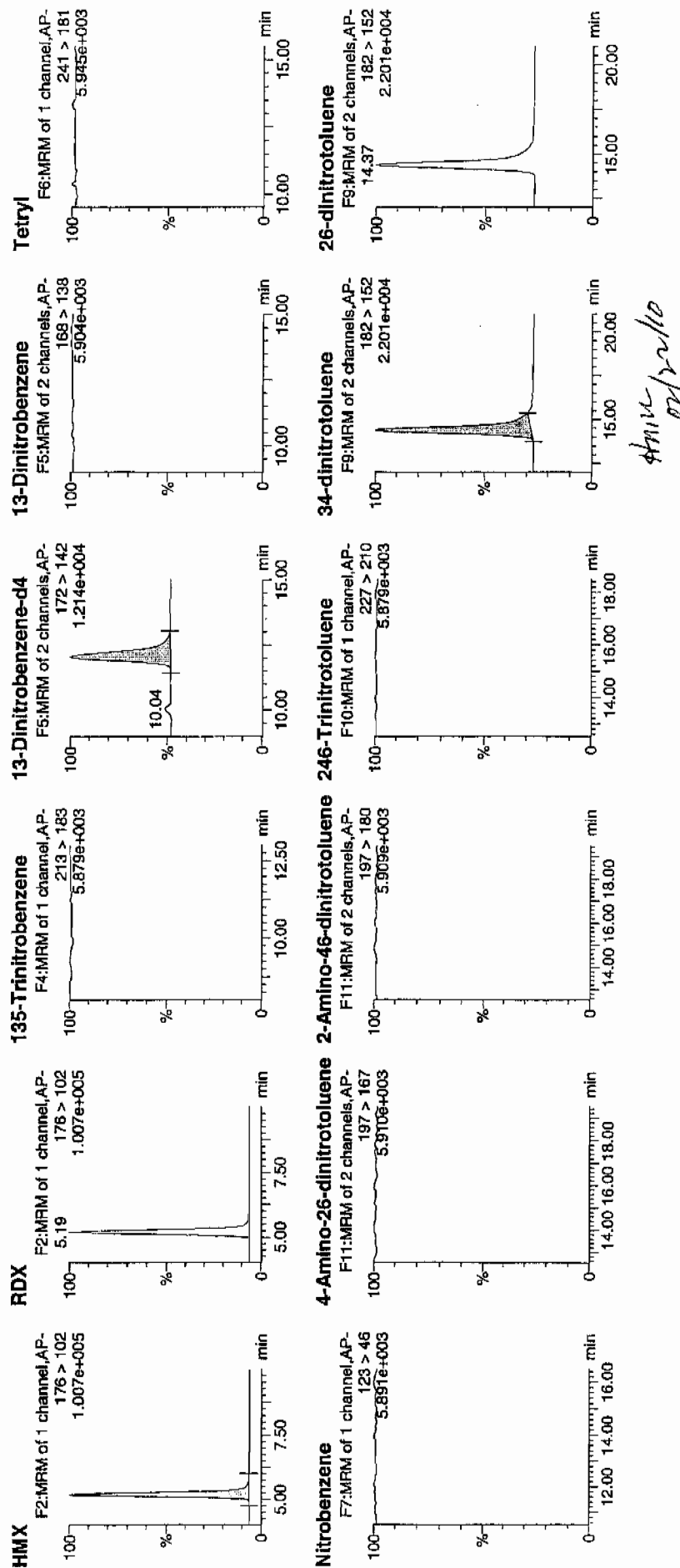
Date: 20-Feb-2010

Time: 13:23:54

ID: 245795004

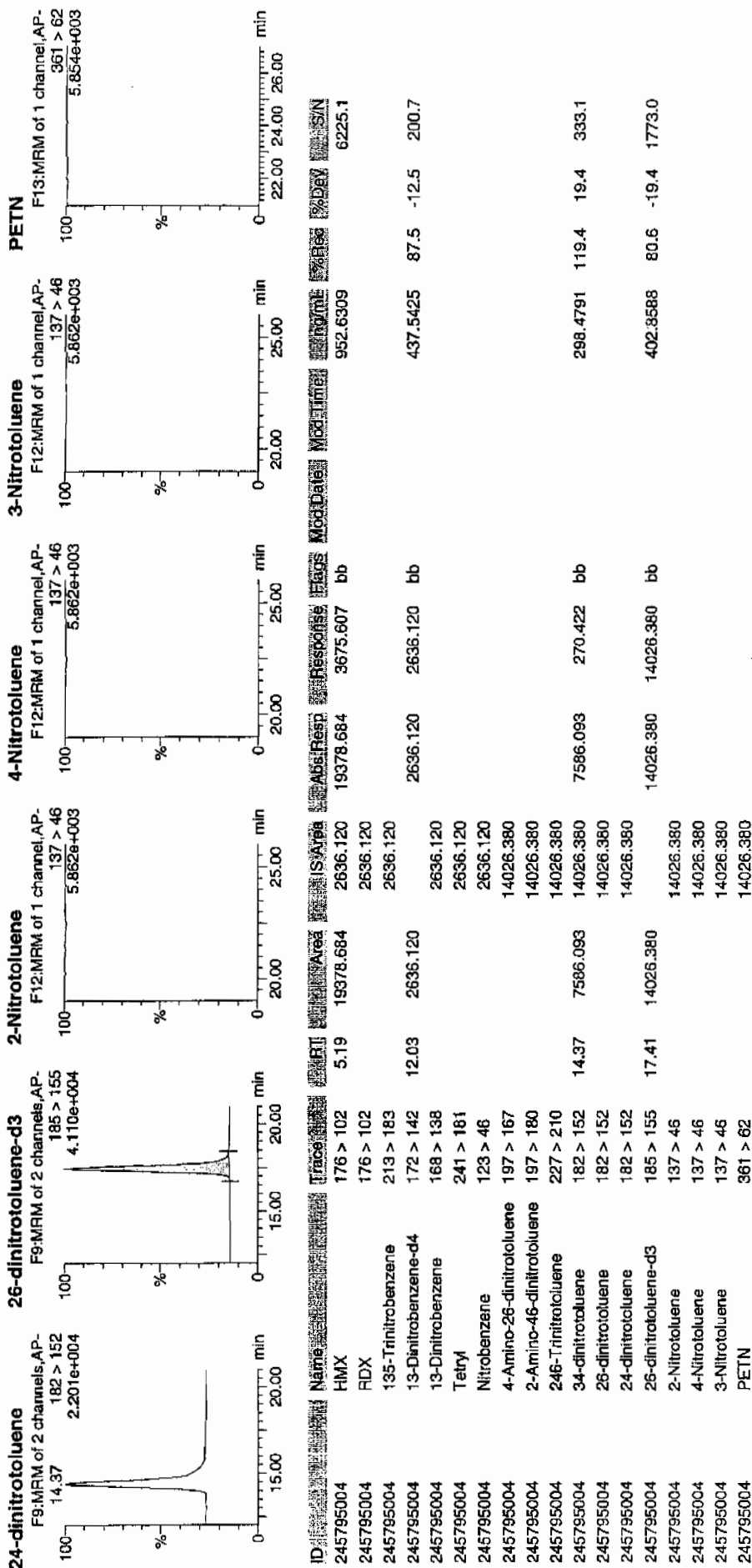
Vial: 4:4,B

Handwritten: LANE 947039 (SOL) 2/21/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7889

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795004

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170021.wiff

Date Analyzed: 17-FEB-10 14:40

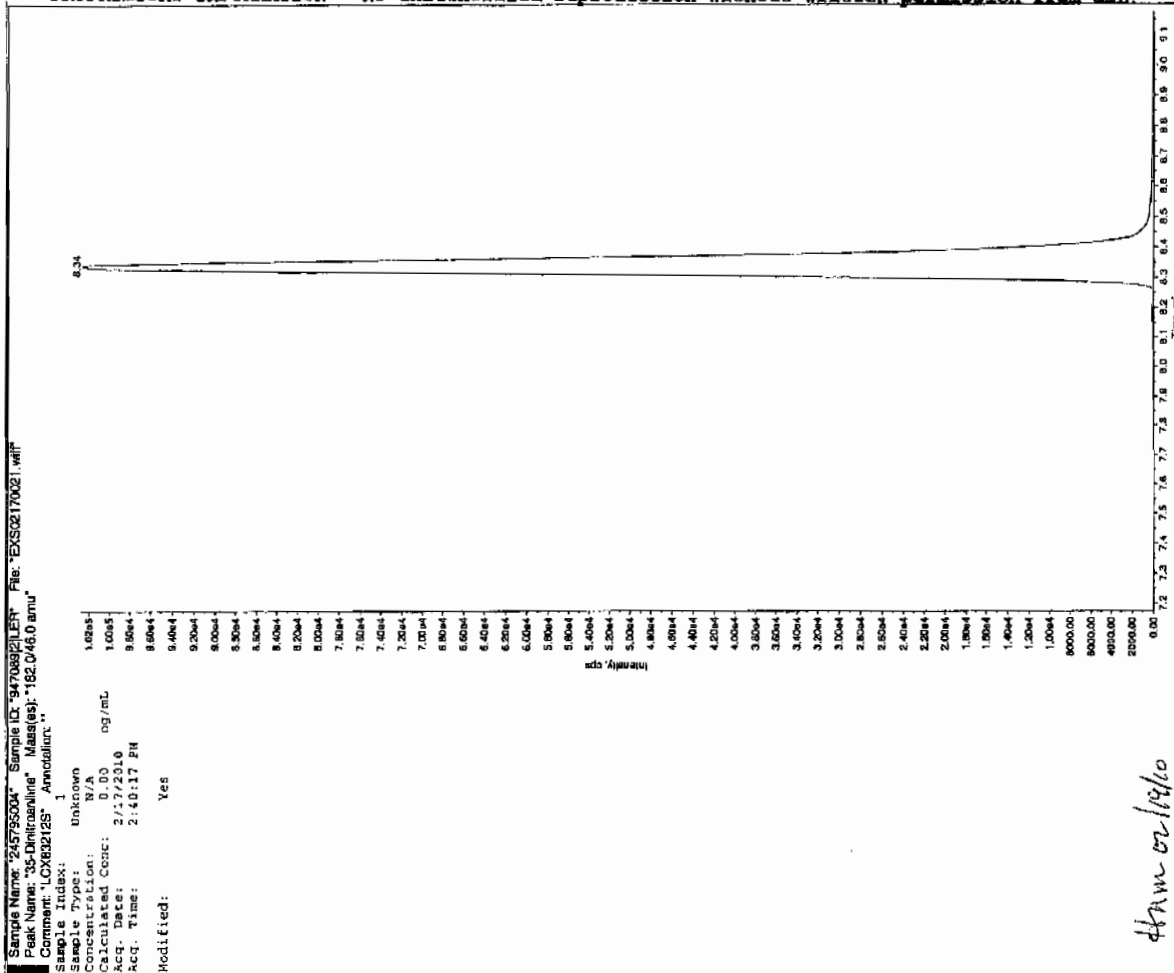
Units: ug/kg

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

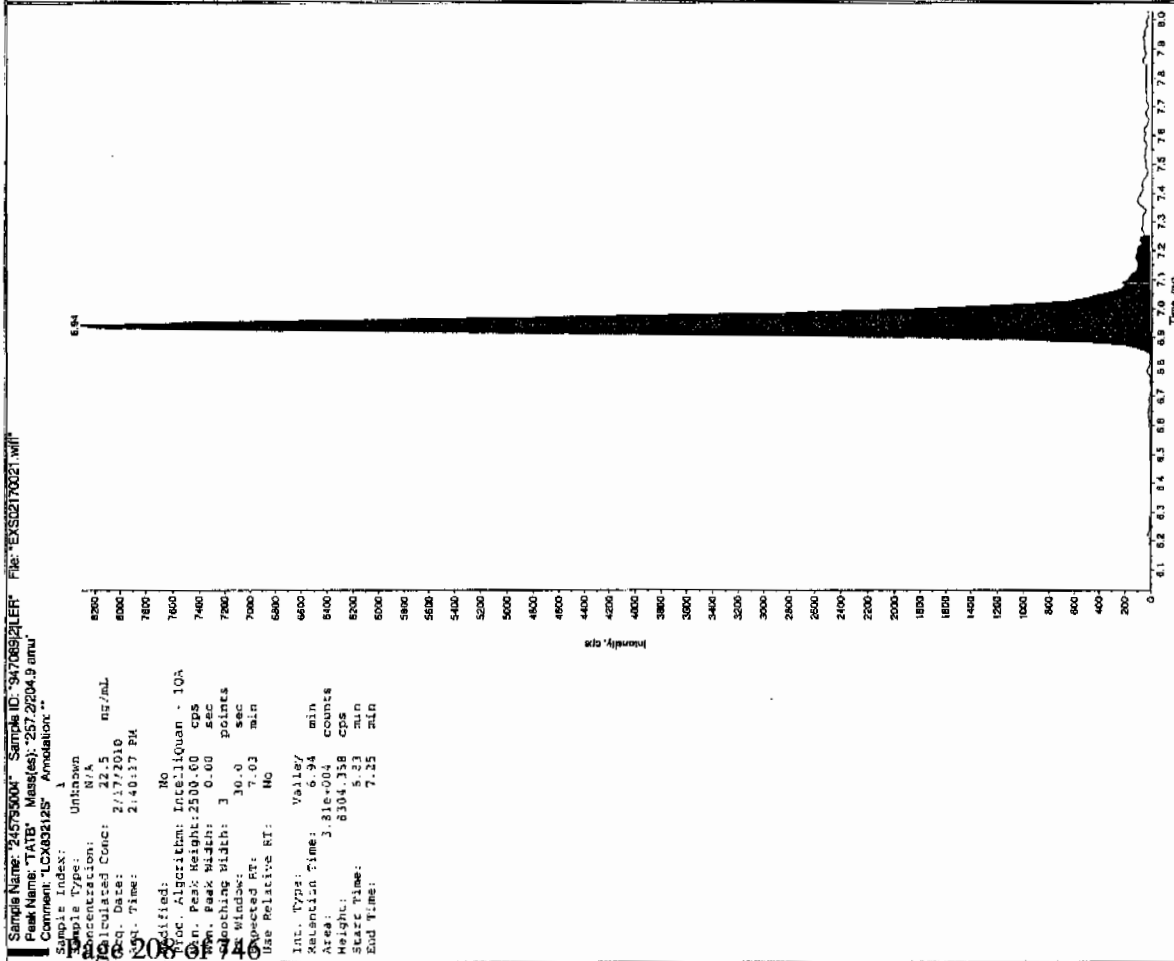
*Concentration =

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

Jan 21/19/10



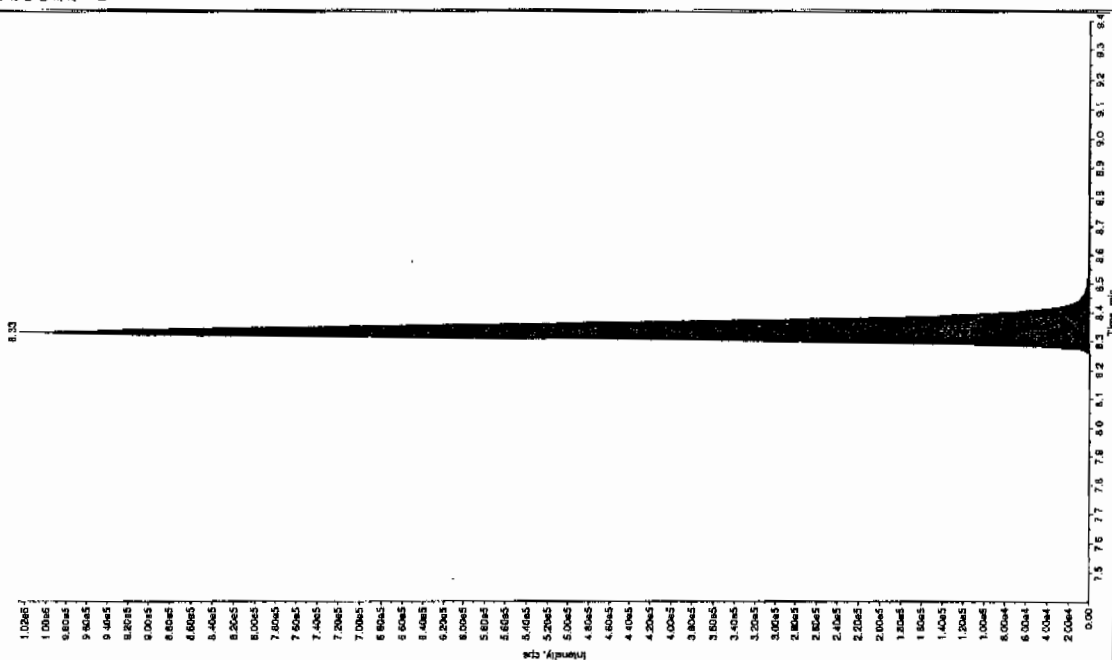
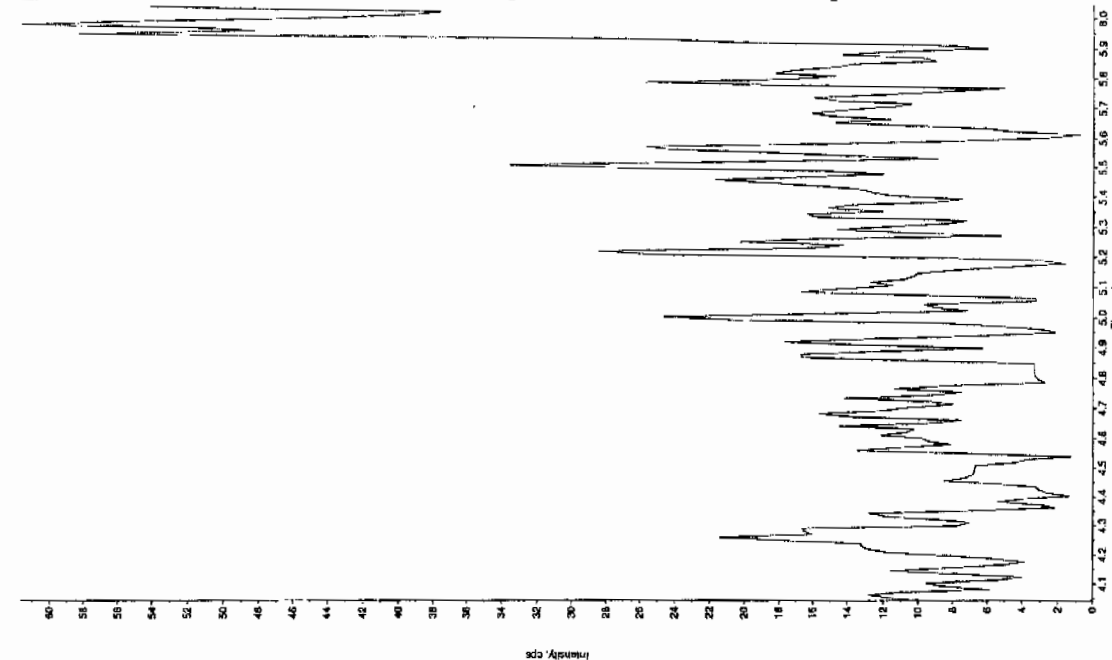
44m 02/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM832125

Sample Name: "245795004" Sample ID: "94708921LER" File: "EXS02170021.wif"
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.0450 amu"
 Comment: "LCX83212S" Annotation: ""

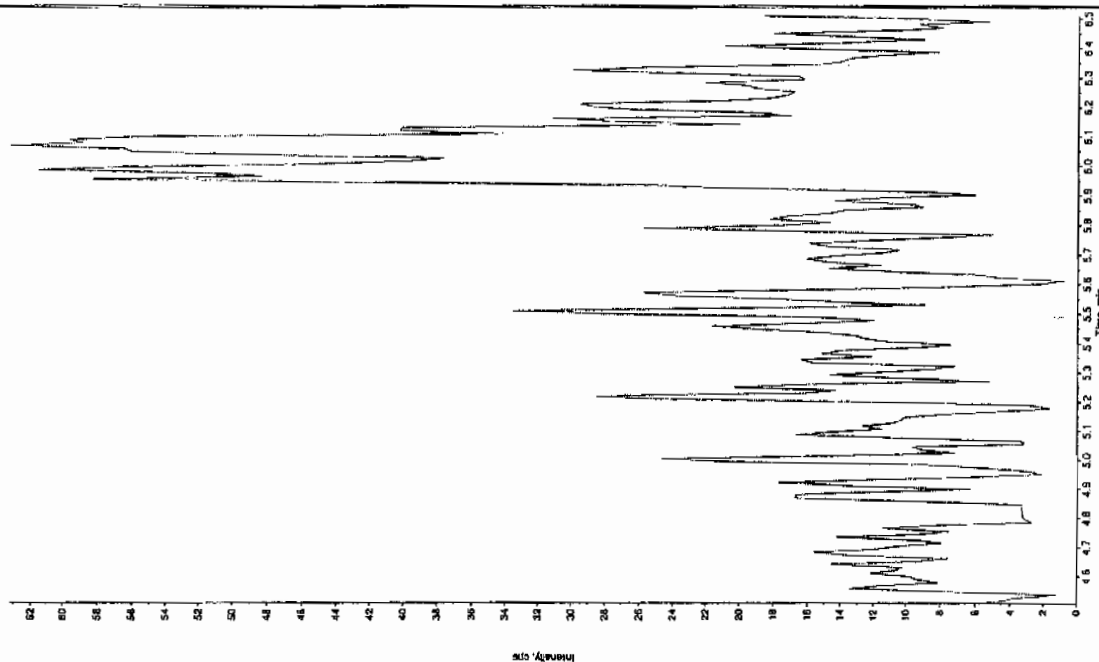
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ug/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:40:17 PM
 Modified: No



Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ug/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:40:17 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 150.00 cps
 Min. Peak Width: 0.30 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 5.40 min
 Use Relative RT: No
 Inc. Type: Valley
 Retention Time: 8.55 min
 Peak Height: 833 cps
 Peak Area: 1026135.610 cps
 Start Time: 8.24 min
 End Time: 8.72 min

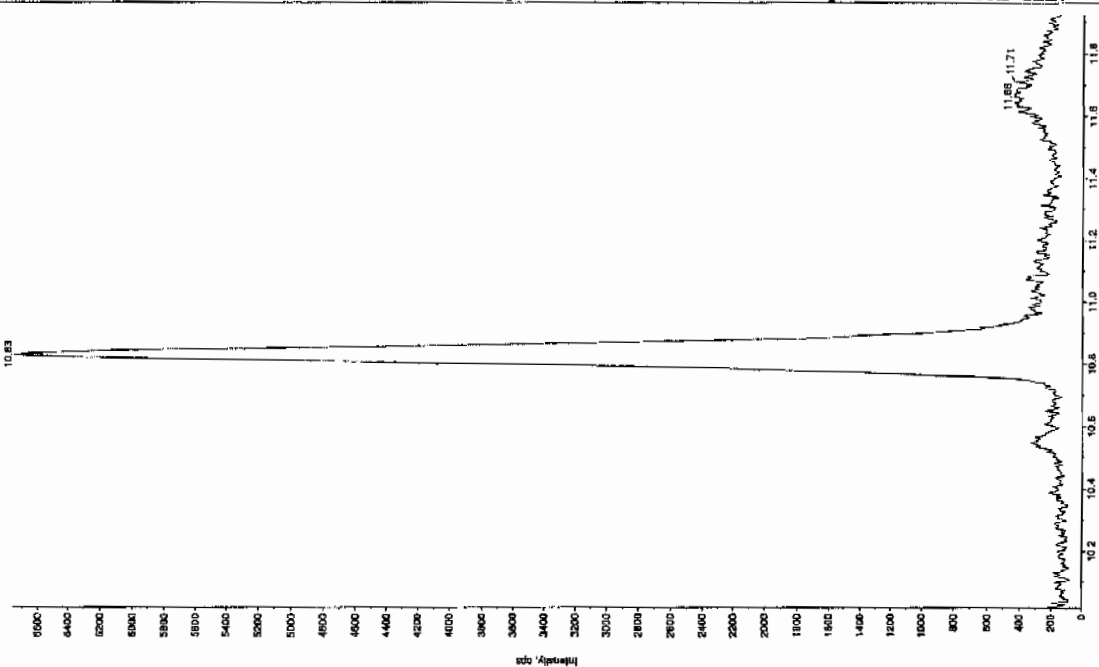
Sample Name: "245795004" Sample ID: "947089[2]LER" File: "EXS02170021.wif"
 Peak Name: "24-Diamino-5-nitrofluorene" Mass (est): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 2/17/2010
 Acq. Time: 2:10:17 PM
 Modified: No



Sample Name: "245795004" Sample ID: "947089[2]LER" File: "EXS02170021.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass (est): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 2/17/2010
 Acq. Time: 2:40:17 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216188a

Date Analyzed: 20-FEB-10 13:53

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qid, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216188a

Date: 20-Feb-2010

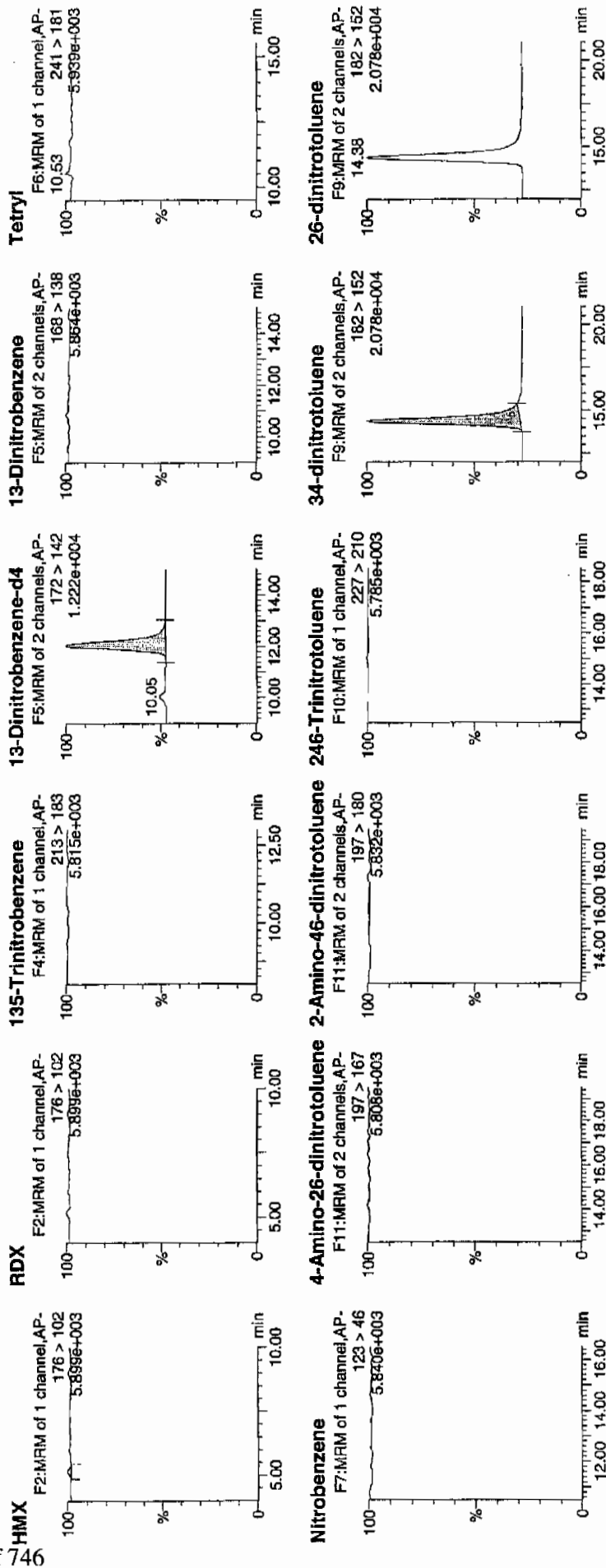
Time: 13:53:24

ID: 245795005

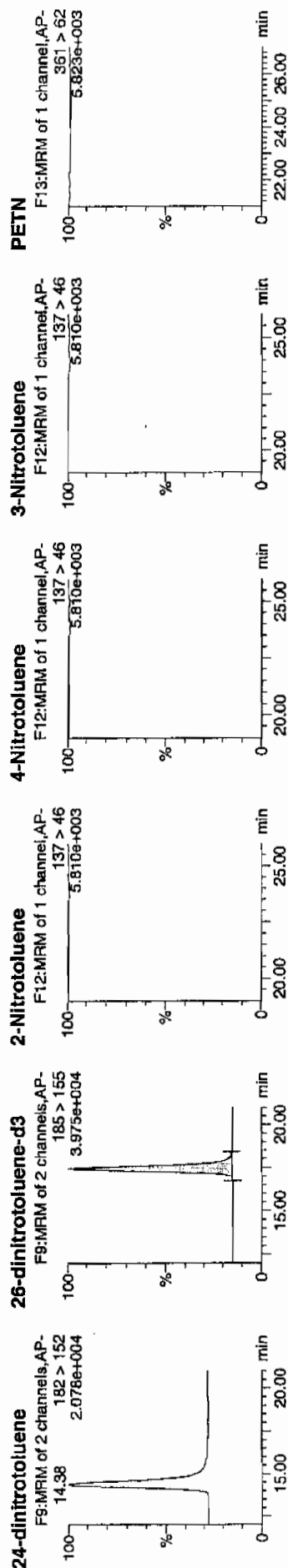
Vial: 4:4,C

1.277
2/21/10

LAU 947089 | Salza | 21



Amc 02/22/10



ID	Name	Trace	RT	Area	SI Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	SN
245795005	HMX	176 > 102	5.19	31.932	2575.506	31.932	6.199	bb		1.6067			6.2
245795005	RDX	176 > 102			2575.506								
245795005	135-Trinitrobenzene	213 > 183			2575.506								
245795005	13-Dinitrobenzene-d4	172 > 142	12.03	2575.506		2575.506	2575.506	bb		427.4818	85.5	-14.5	359.7
245795005	13-Dinitrobenzene	168 > 138											
245795005	Tetryl	241 > 181			2575.506								
245795005	Nitrobenzene	123 > 46			2575.506								
245795005	4-Amino-26-dinitrotoluene	197 > 167			13352.633								
245795005	2-Amino-46-dinitrotoluene	197 > 180			13352.633								
245795005	246-Trinitrotoluene	227 > 210			13352.633								
245795005	34-dinitrotoluene	182 > 152	14.38	7126.170	13352.633	7126.170	266.845	bb		294.5307	117.8	17.8	505.7
245795005	26-dinitrotoluene	182 > 152			13352.633								
245795005	24-dinitrotoluene	182 > 152			13352.633								
245795005	26-dinitrotoluene-d3	185 > 155	17.42	13352.633		13352.633	13352.633	bb		363.5078	76.7	-23.3	2147.6
245795005	2-Nitrotoluene	137 > 46			13352.633								
245795005	4-Nitrotoluene	137 > 46			13352.633								
245795005	3-Nitrotoluene	137 > 46			13352.633								
245795005	PETN	361 > 62			13352.633								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7885

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795005

Sample Amount 2

Moisture: 33.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170022.wiff

Date Analyzed: 17-FEB-10 14:56

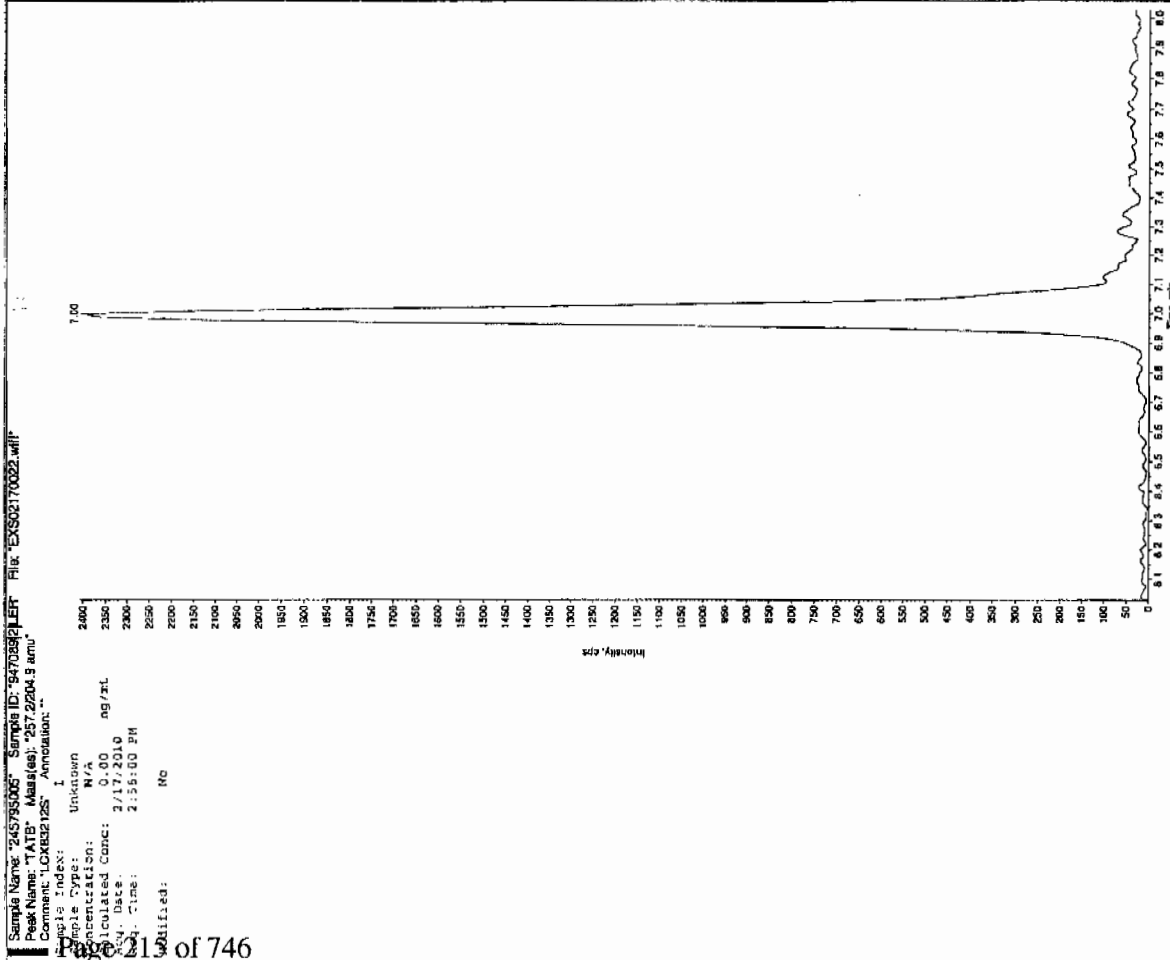
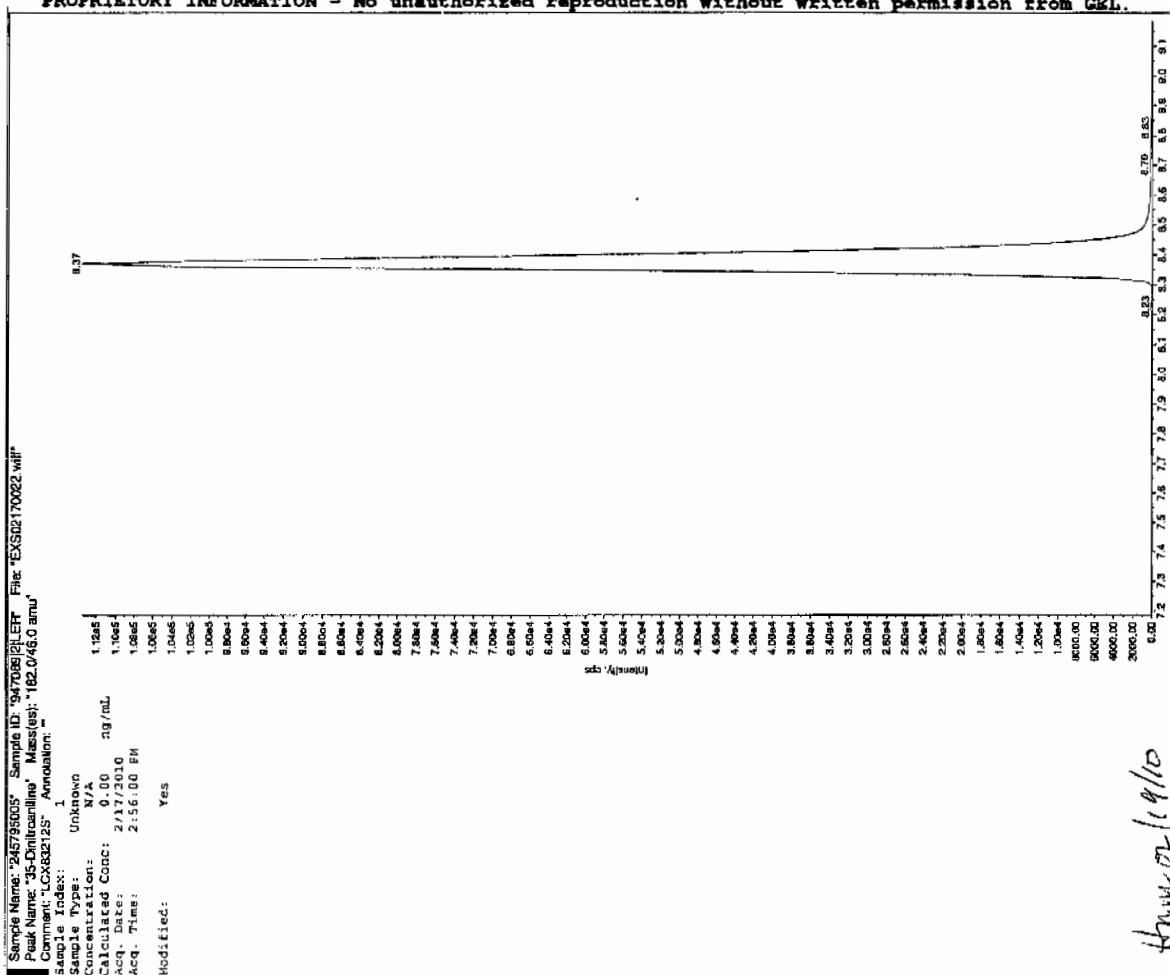
Units: ug/kg

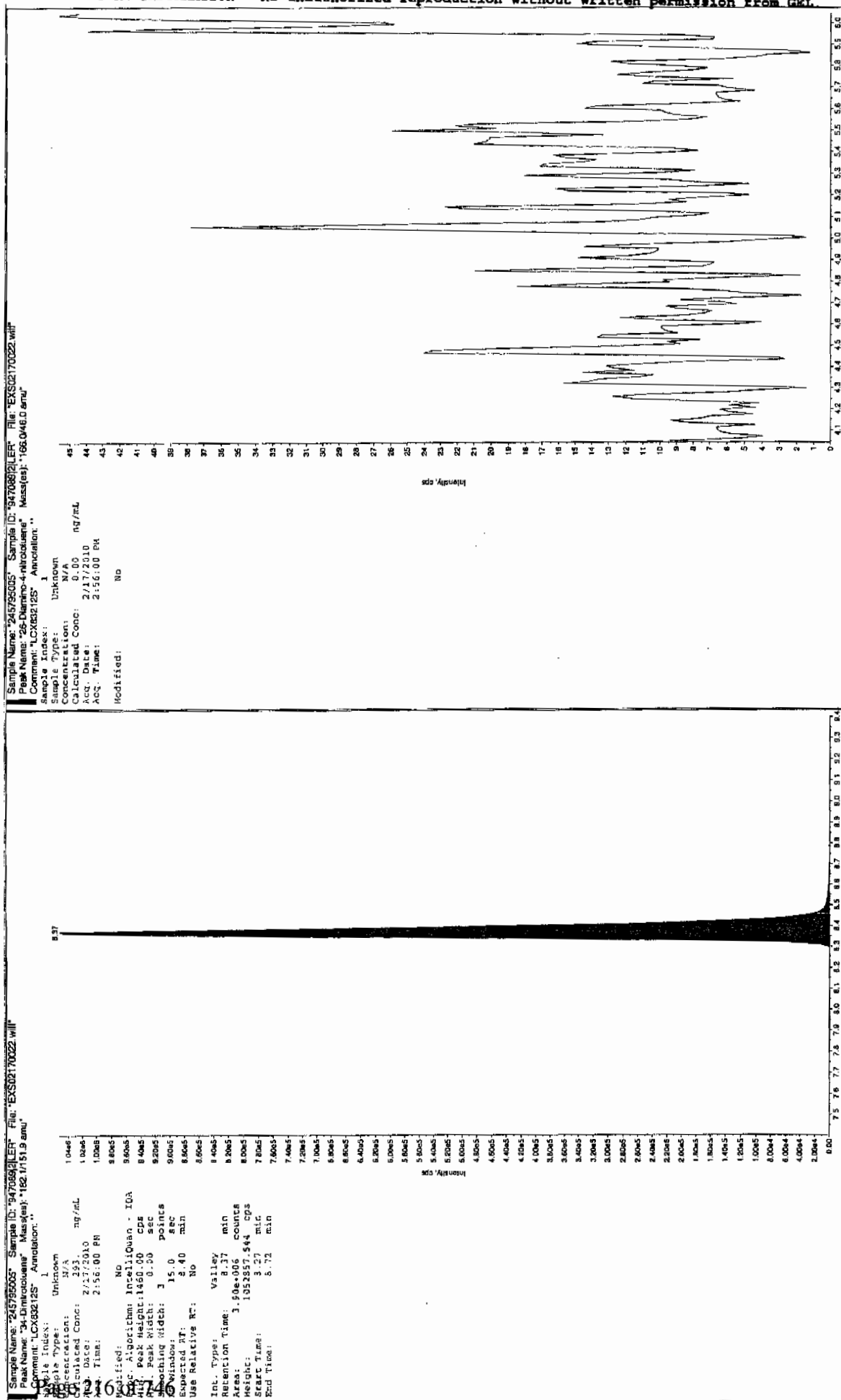
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

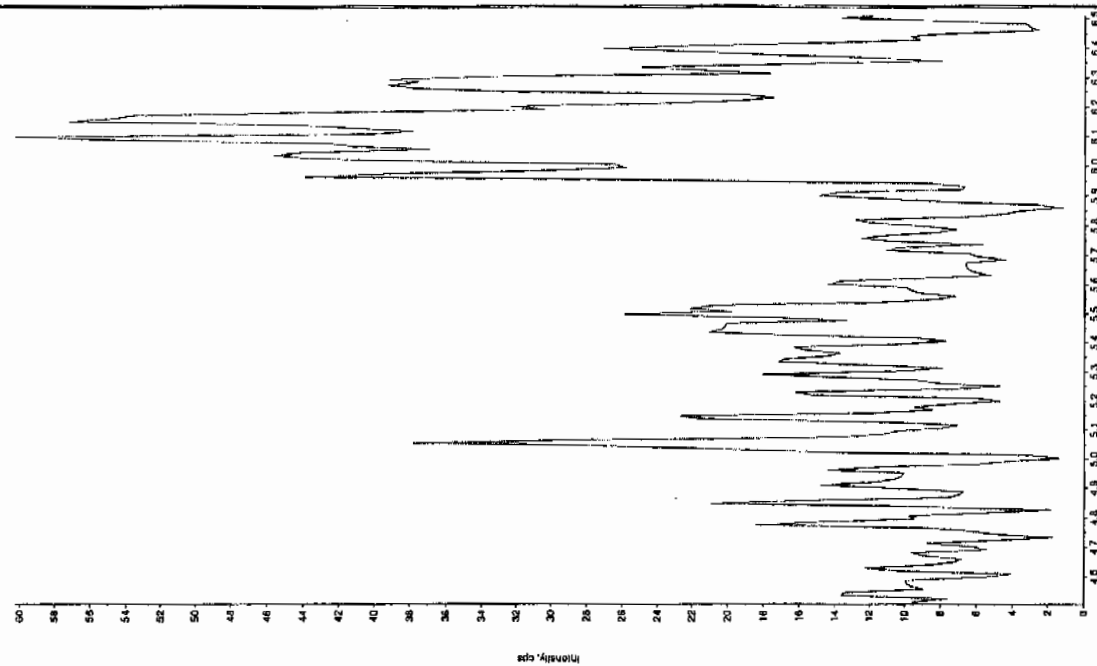
See 2/19/10





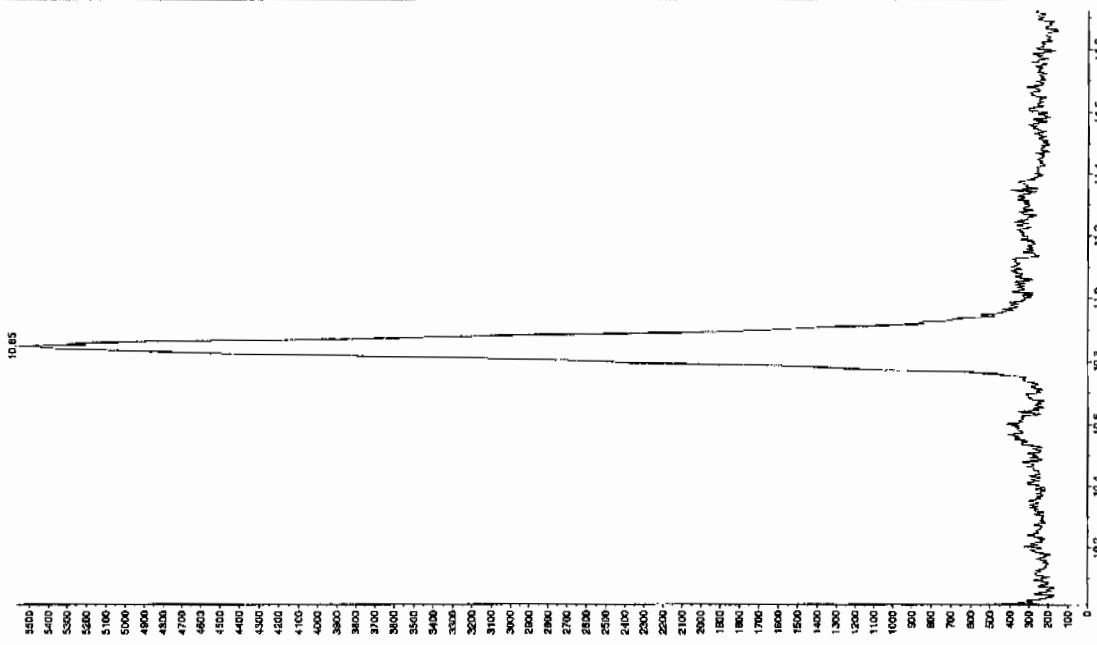
Sample Name: "24575505" Sample ID: "94708921ER" File: "EXS0217022.will"
 Peak Name: "24-Diamino-6-nitrocouans" Mass(es): "168.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:56:00 PM
 Modified: No



Sample Name: "24575505" Sample ID: "94708921ER" File: "EXS0217022.will"
 Peak Name: "tris(O-methyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 2:56:00 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216189a

Date Analyzed: 20-FEB-10 14:23

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

Printed: Sun Feb 21 12:01:24 2010, Page 19 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216189a

Date: 20-Feb-2010

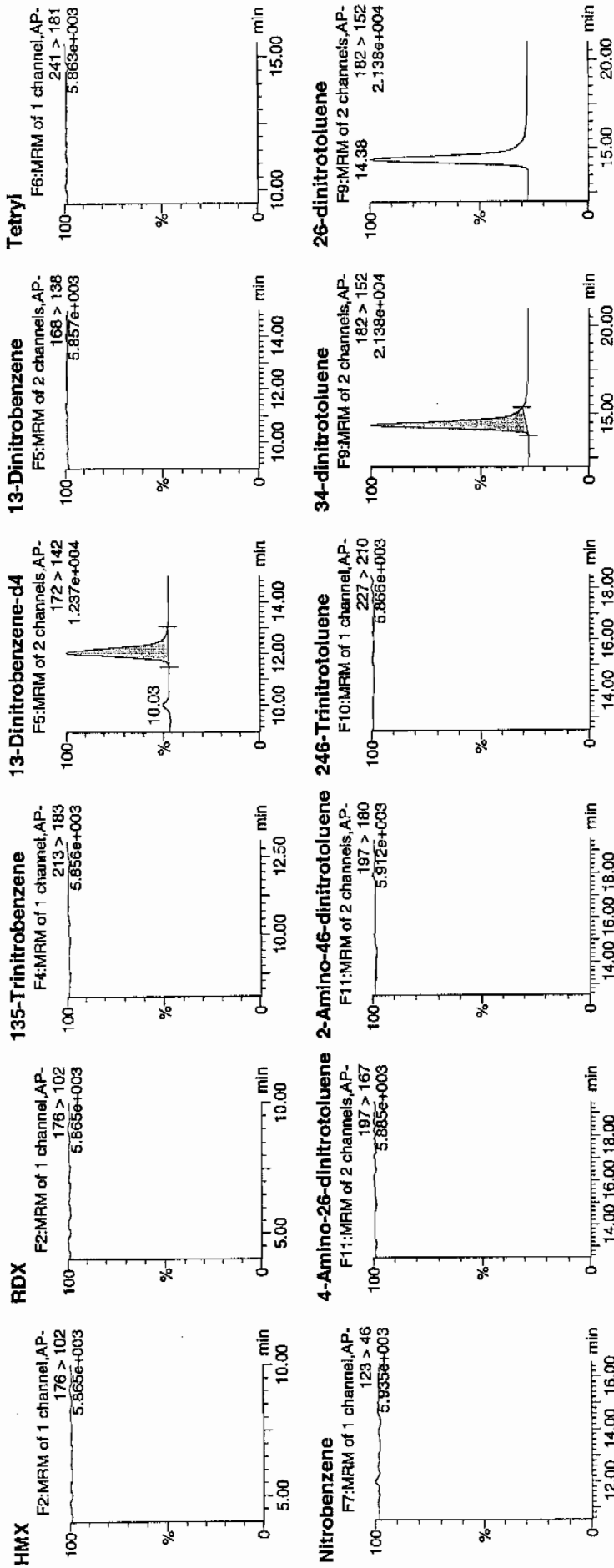
Time: 14:23:05

ID: 245795006

Vial: 4:4,D

WATP
2/24/10

Handwritten: 947089 | 21

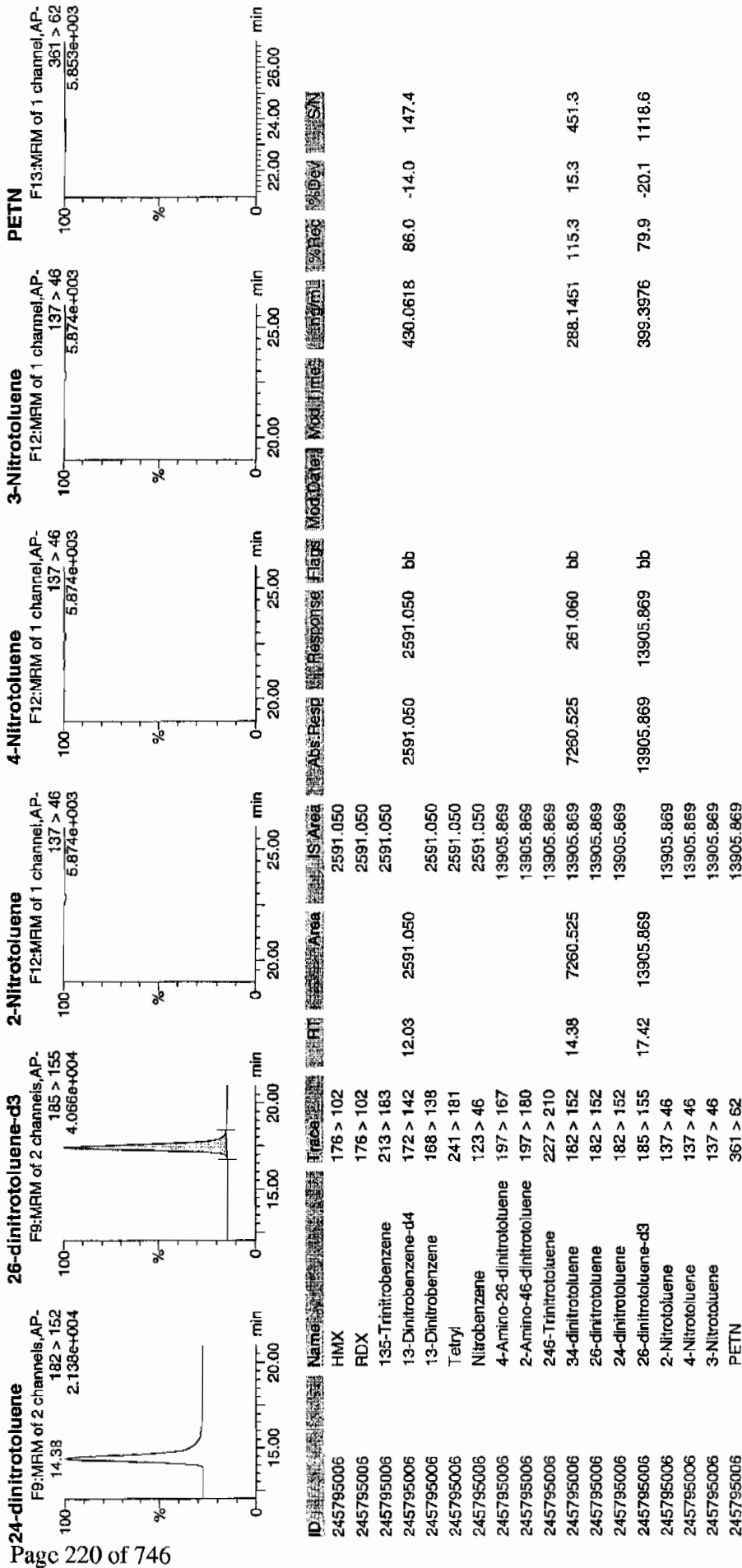


Handwritten: 4mm order 2/10

Printed: Sun Feb 21 12:01:24 2010, Page 20 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7882

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795006

Sample Amount 2

Moisture: 12.5

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170023.wiff

Date Analyzed: 17-FEB-10 15:11

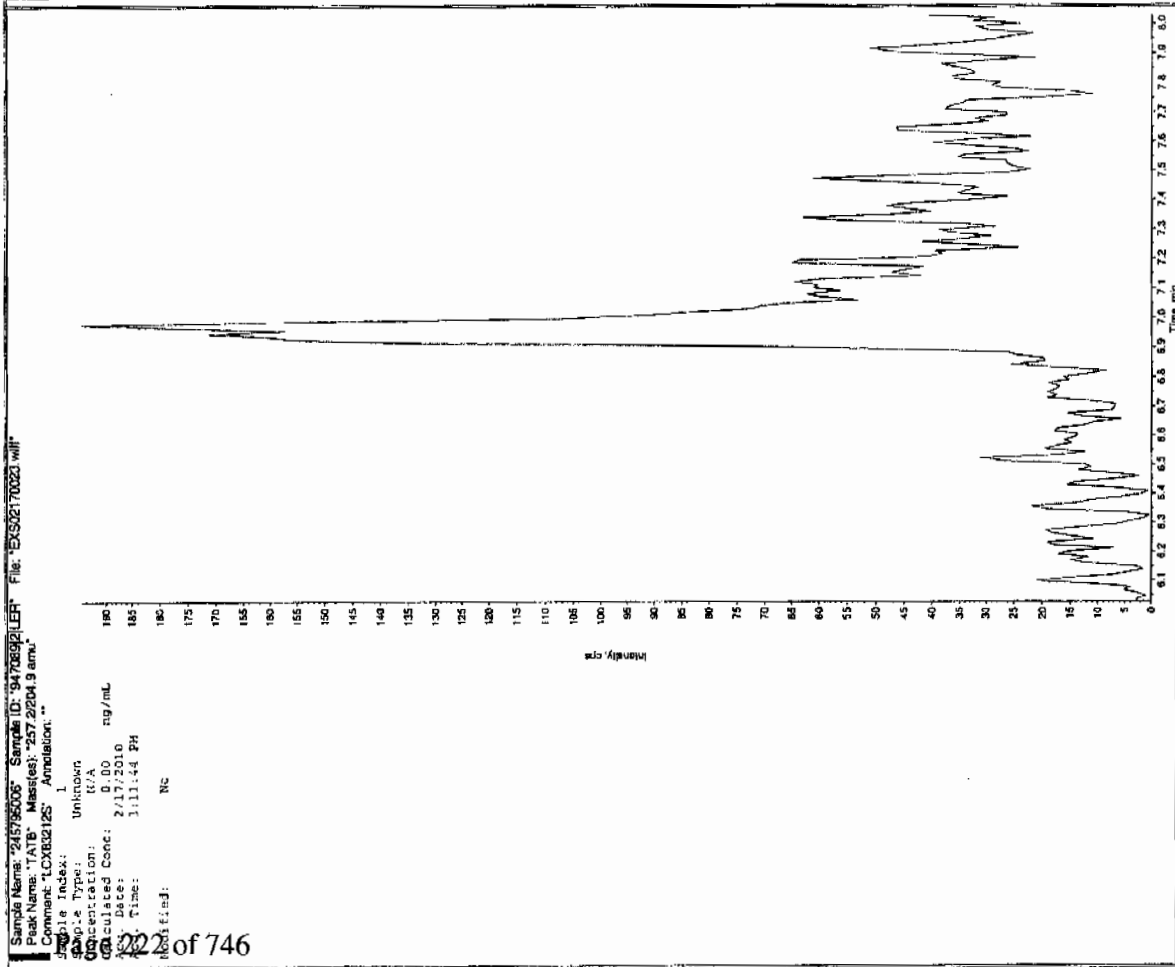
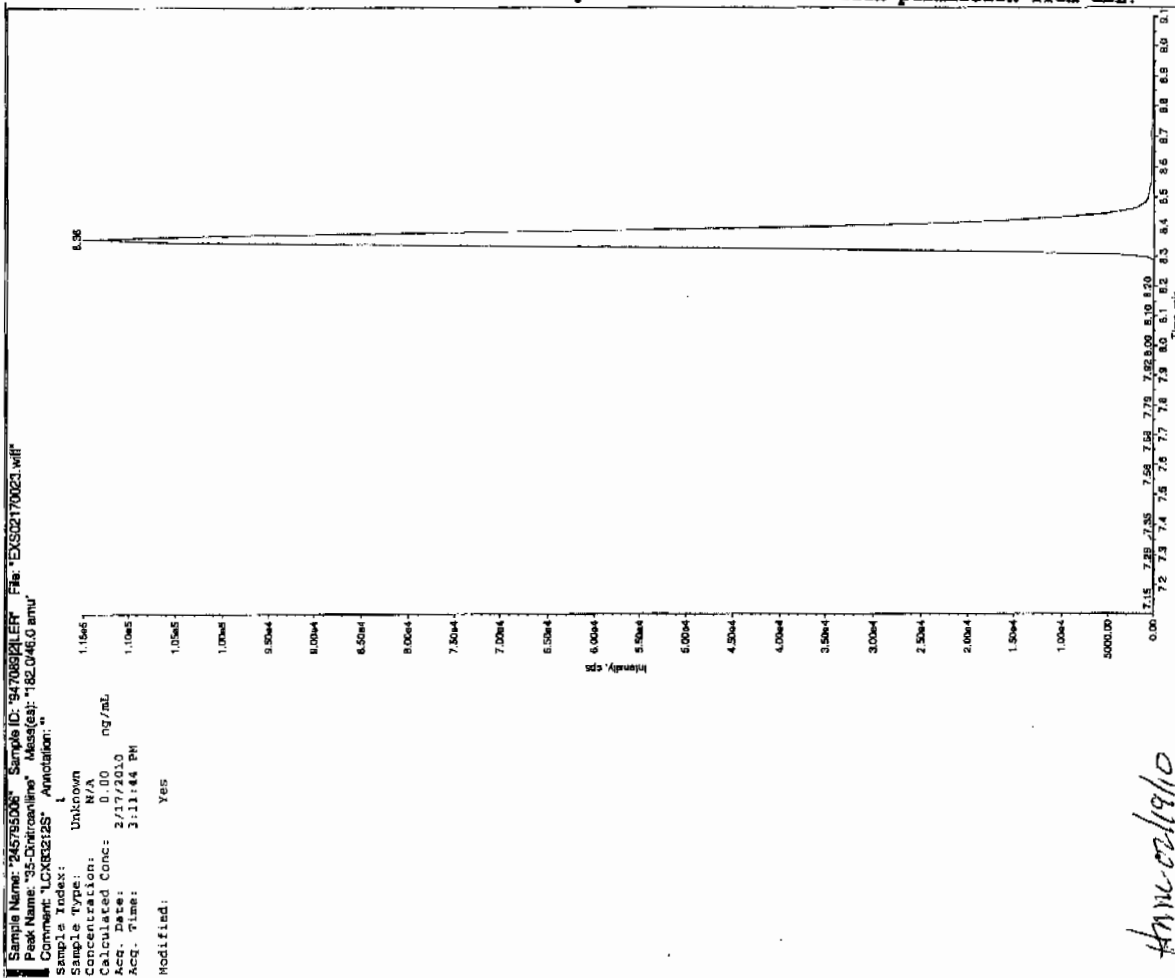
Units: ug/kg

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

*Concentration =

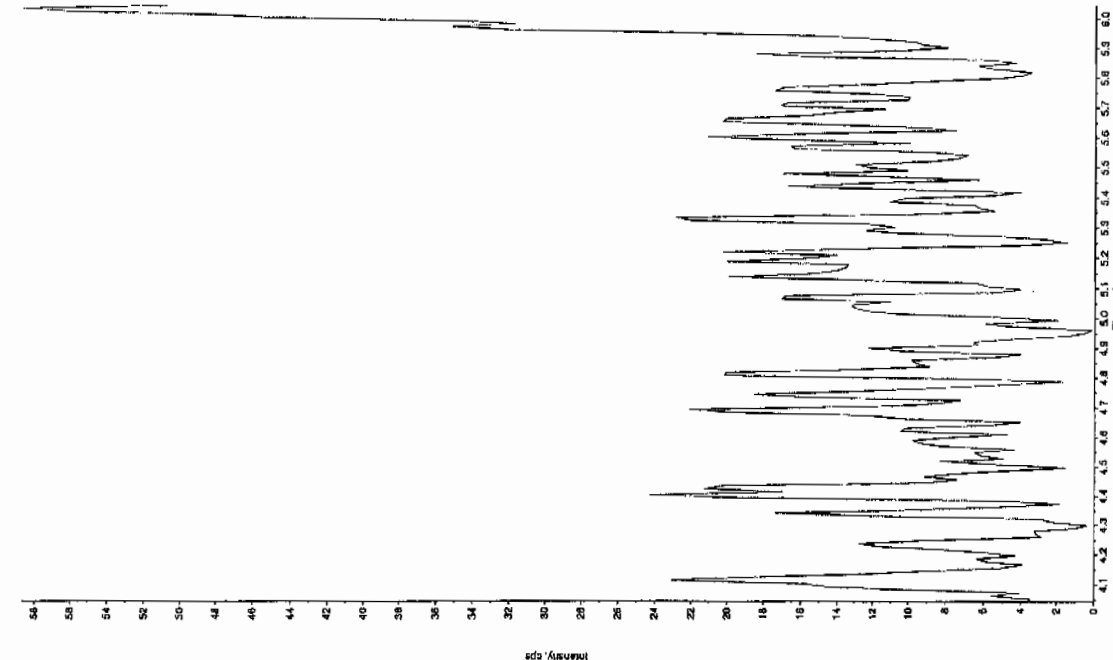
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Law 2/19/10



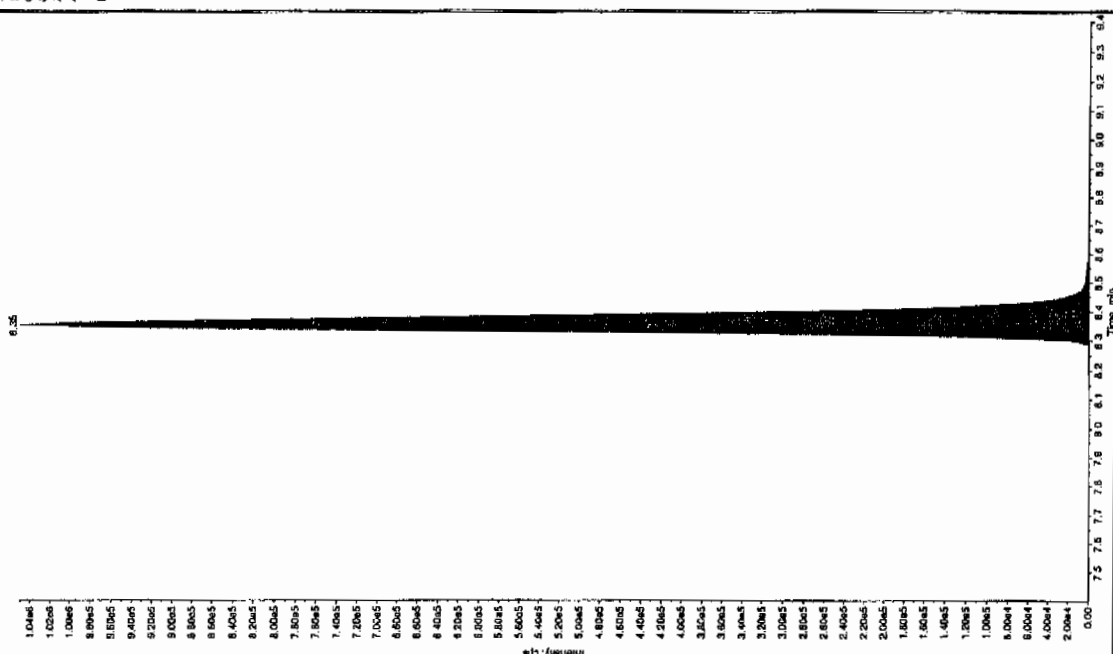
Sample Name: 245795008 Sample ID: 94708921LER File: EXS02170023.wif
 Peak Name: 26-Diamino-4-nitrocoucine Mass(es): 166.046.0 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:11:44 PM
 Modified: No



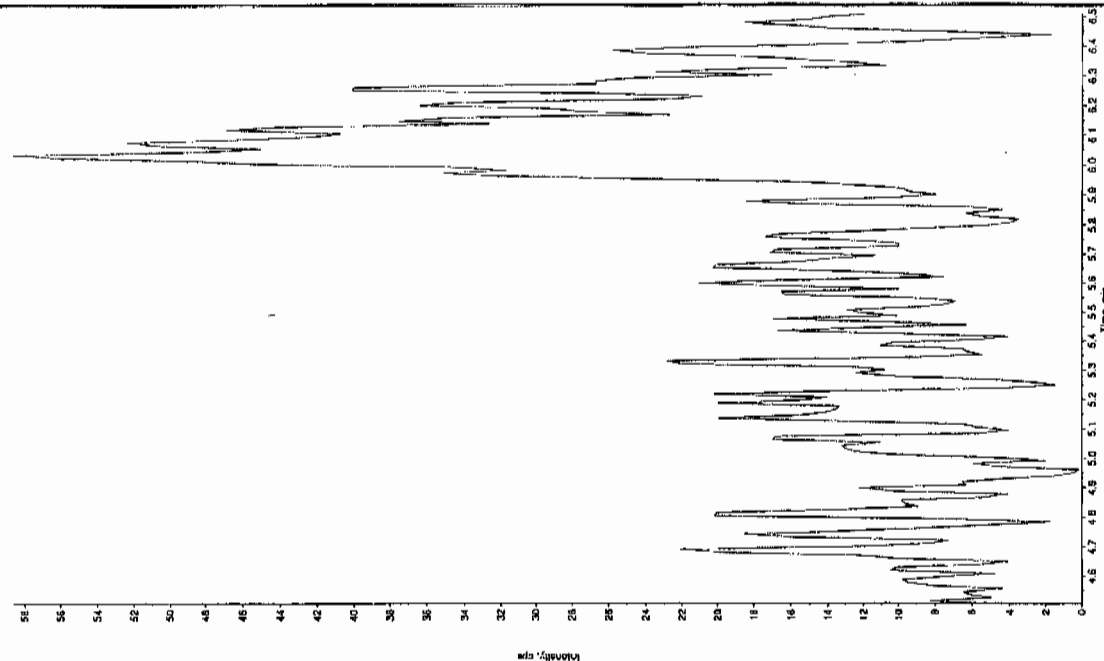
Sample Name: 245795008 Sample ID: 94708921LER File: EXS02170023.wif
 Peak Name: 34-Dinitrocoucine Mass(es): 162.151.9 amu
 Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 305 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:11:44 PM
 Modified: No
 Proc. Algorithm: Intelligent - IQA
 Peak Height: 1450.00 cps
 Peak Width: 0.00 sec
 Baseline Width: 15.0 points
 Baseline FT: 8.40 min
 Use Relative FT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 4.06e+006 counts
 Weight: 105133.398 cps
 Start Time: 5.24 min
 End Time: 9.77 min



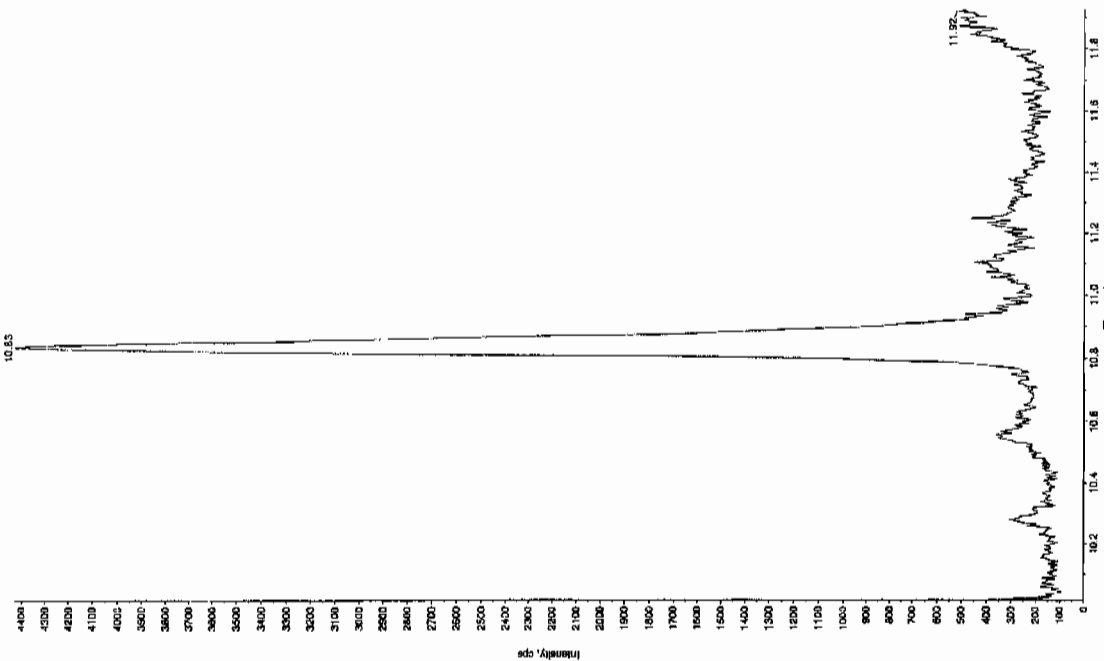
Sample Name: "245755006" Sample ID: "94708921LER" File: "EX502170023.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:11:44 PM
 Modified: No



Sample Name: "245755006" Sample ID: "94708921LER" File: "EX502170023.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "389.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:11:44 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216193a

Date Analyzed: 20-FEB-10 16:21

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Printed: Sun Feb 21 12:01:24 2010, Page 27 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216193a

Date: 20-Feb-2010

Time: 16:21:31

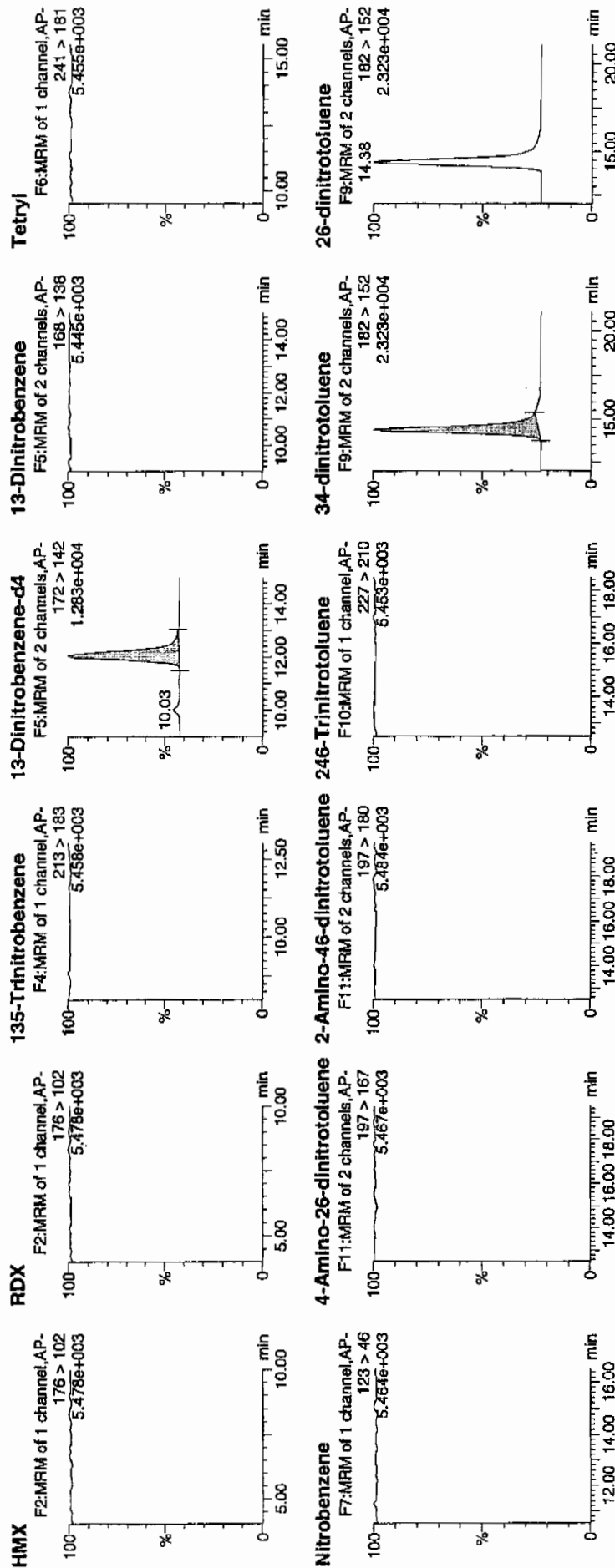
ID: 245795007

Vial: 4:4,E

100%
4/21/10

947089
Seas
21

Page 226 of 746

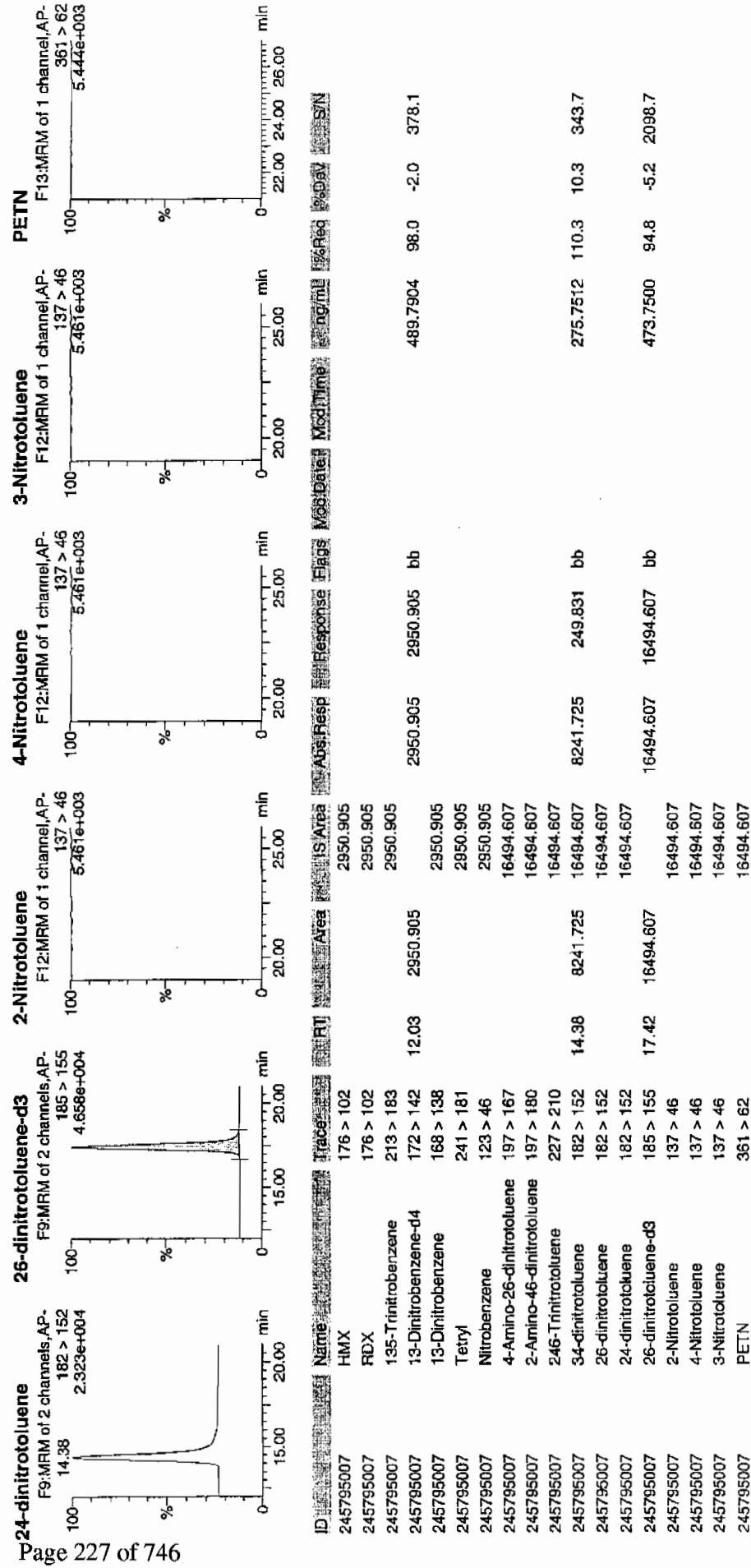


4/21/10

Printed: Sun Feb 21 12:01:24 2010, Page 28 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7887

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795007

Sample Amount 2

Moisture: 33.0

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170027.wiff

Date Analyzed: 17-FEB-10 16:14

Units: ug/kg

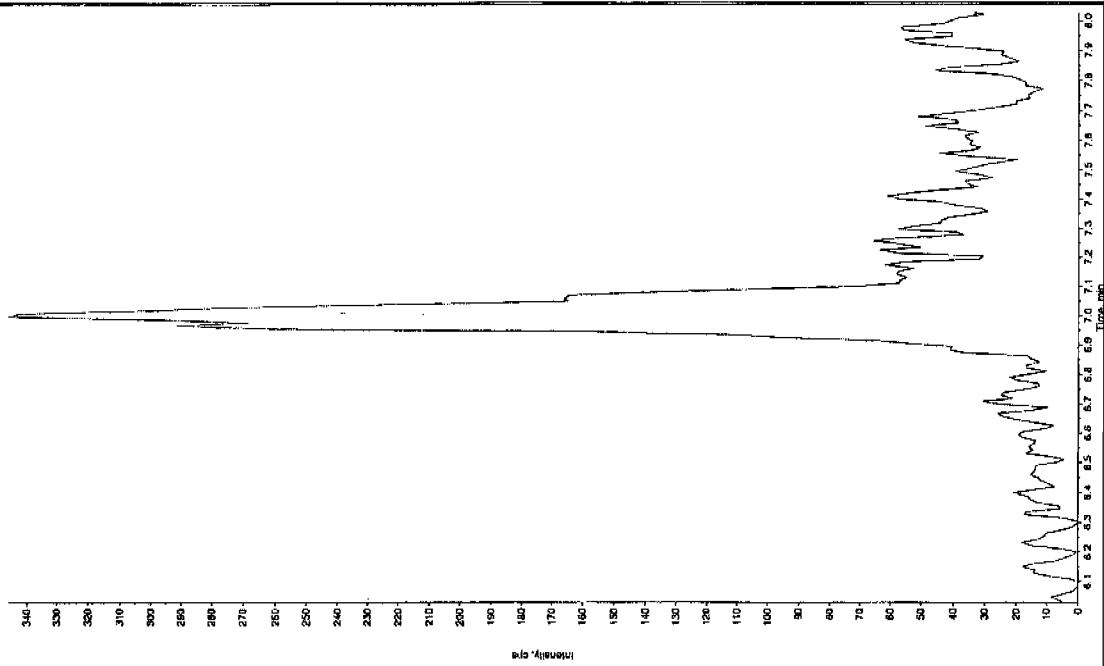
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

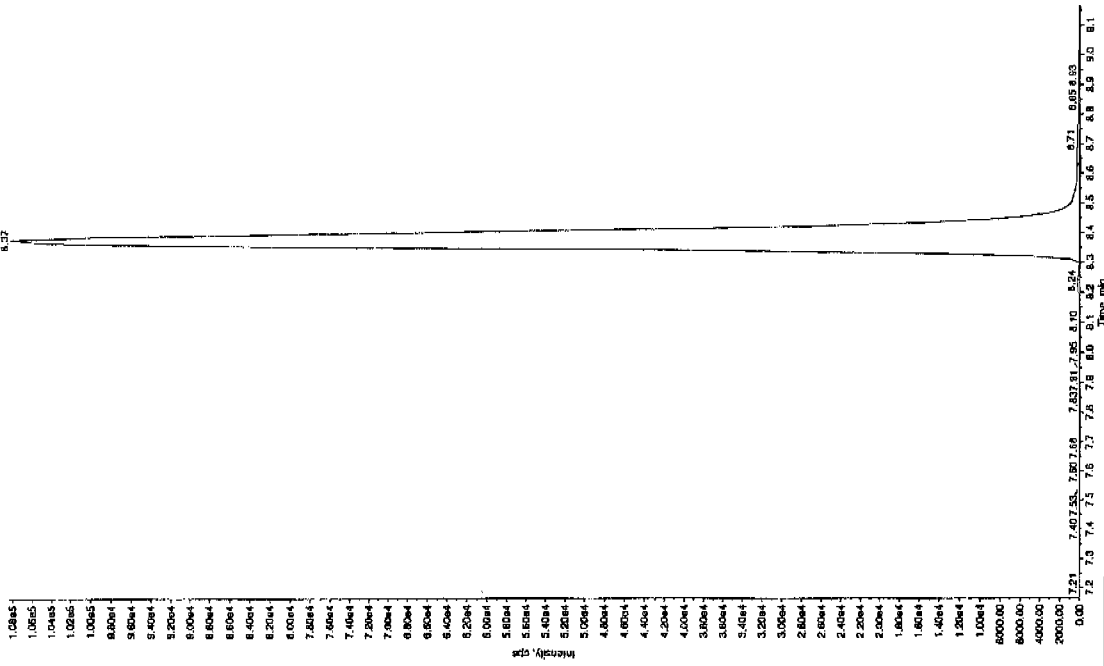
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

for 2/19/10

Sample Name: '245795007' Sample ID: '94708921.E' File: 'EXS02170027.wif'
 Peak Name: '1A1B' Mass(es): '257.2204.9 amu'
 Comment: 'LCX83212S' Annotation: ''
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 4:14:33 PM
 Modified: No



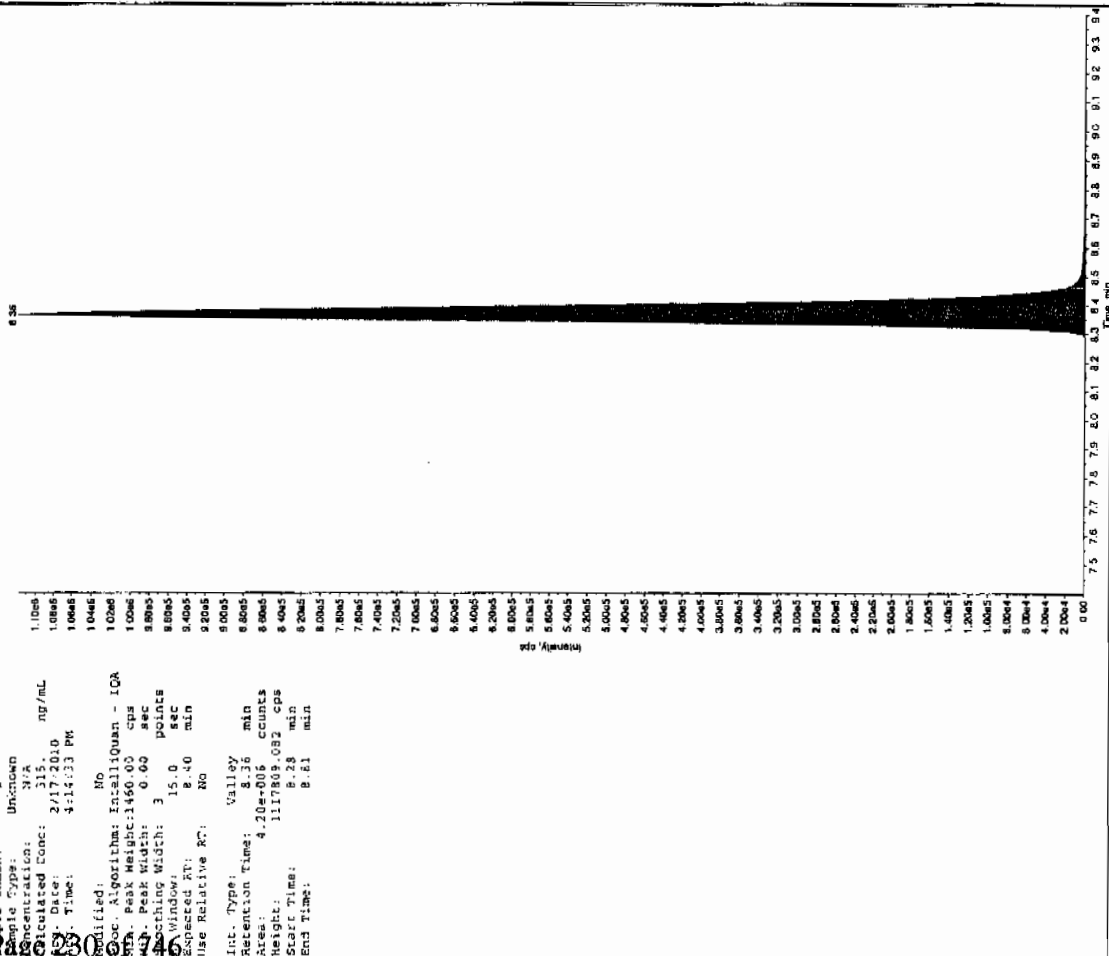
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 4:14:33 PM
 Modified: Yes



for 2/19/10

Sample Name: "245795007" Sample ID: "94708921LER" File: "EX502170027.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCX832125" Annotation: "

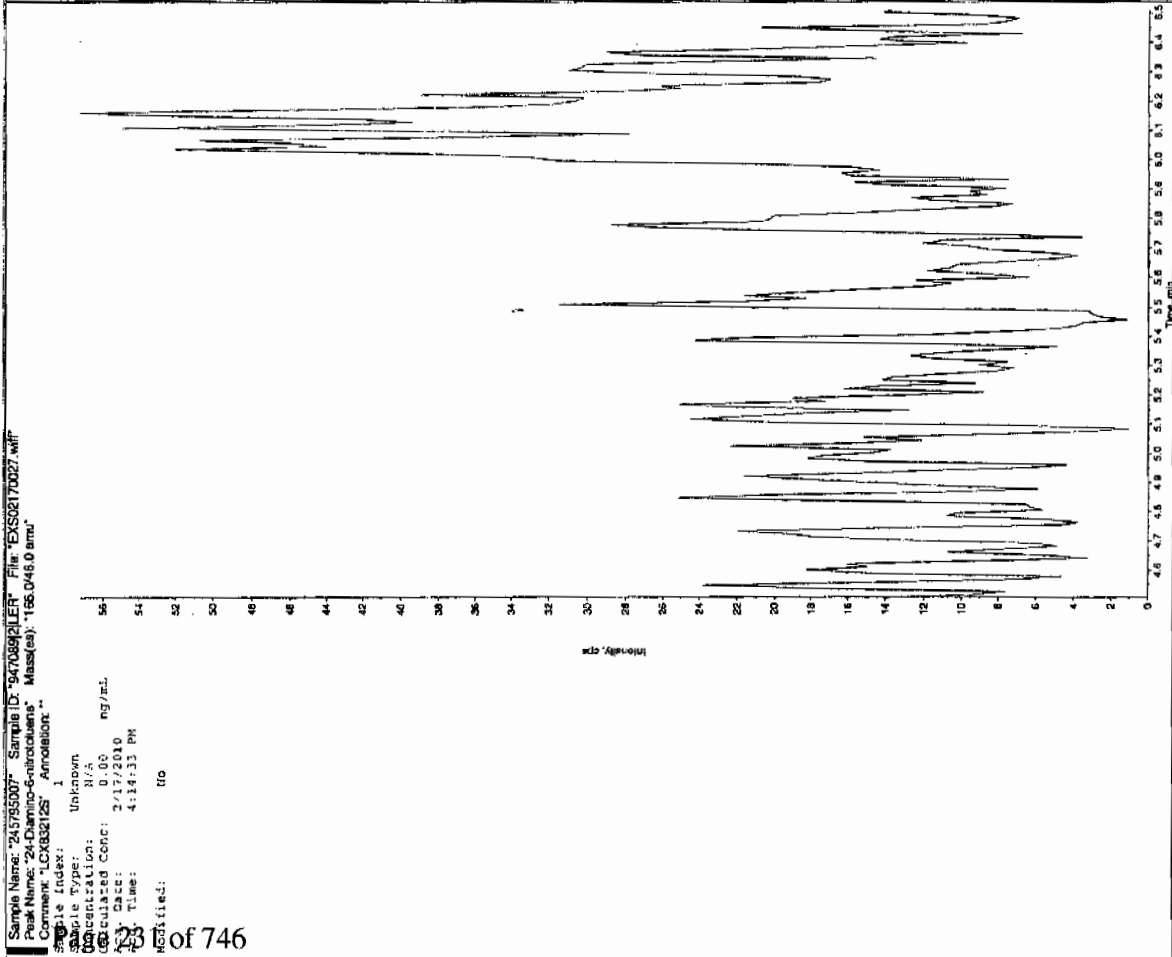
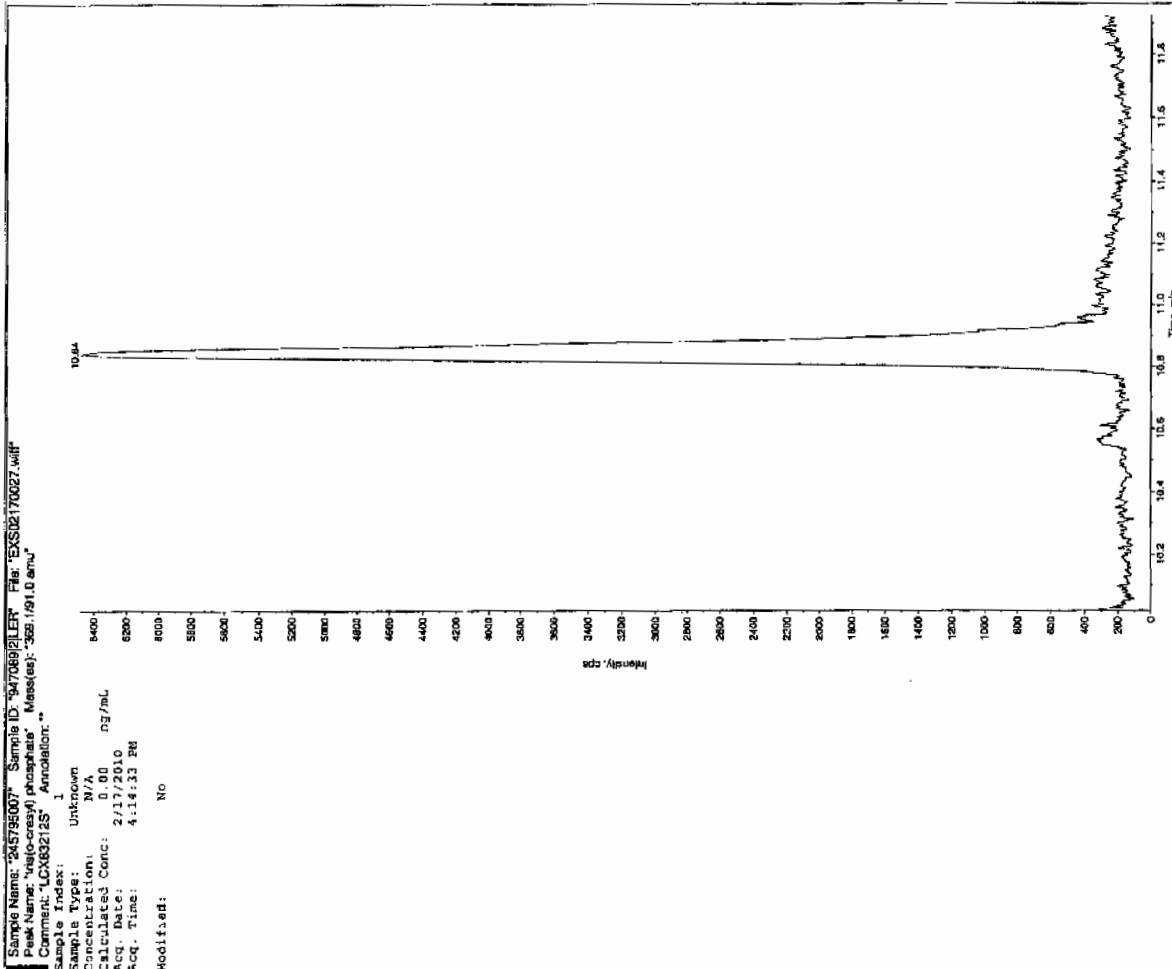
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/20.0 ng/mL
 Acq. Date: 4/14/03 PM
 Acq. Time: 4:14:33 PM
 Modified: No



Sample Name: "245795007" Sample ID: "94708921LER" File: "EX502170027.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.17/20.0 ng/mL
 Acq. Date: 4/14/03 PM
 Acq. Time: 4:14:33 PM
 Modified: No

Int. Type: Valley
 Retention Time: 8.36 min
 Area: 4.20e+005 counts
 Height: 1117809.082 cps
 Start Time: 8.28 min
 End Time: 8.61 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7881

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216194a

Date Analyzed: 20-FEB-10 16:51

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 29 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216194a

Date: 20-Feb-2010

Time: 16:51:07

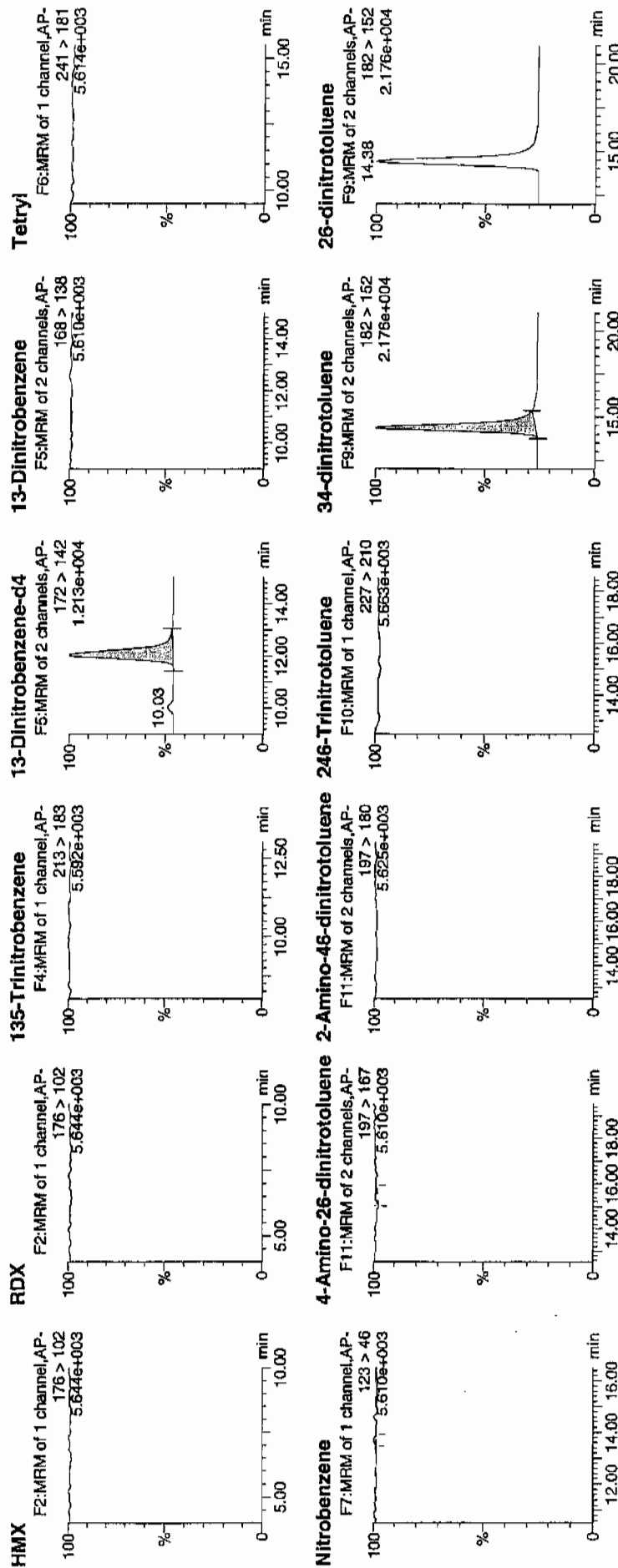
ID: 245795008

Vial: 4:4,F

1477
4/21/10

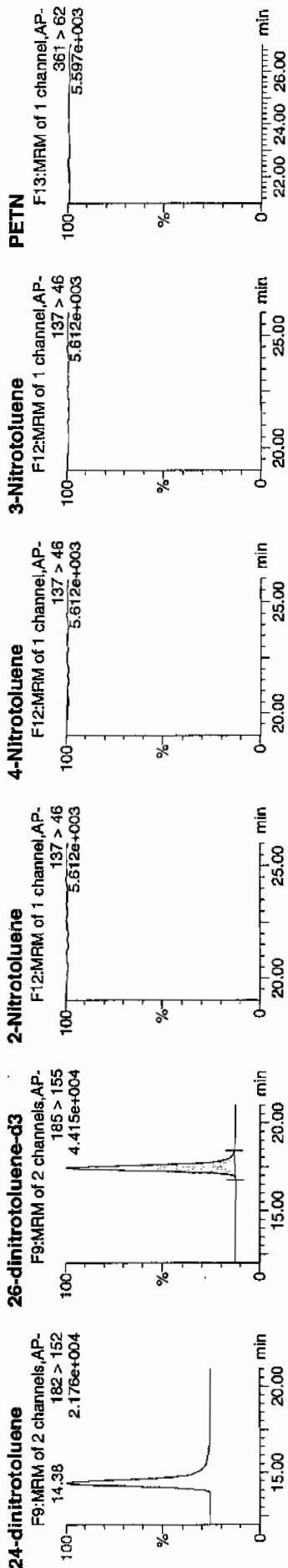
RAW 947089 / Soars / 21

Page 233 of 746



Amme 2/21/10

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod Data	Mod Time	%Rec	%Dev	SIN
245795008	HMX	176 > 102		2625.518									
245795008	RDX	176 > 102		2625.518									
245795008	135-Trinitrobenzene	213 > 183		2625.518									
245795008	13-Dinitrobenzene-d4	172 > 142	12.03	2625.518		2625.518	2625.518	bb			435.7828	87.2	-12.8
245795008	13-Dinitrobenzene	168 > 138		2625.518									253.9
245795008	Tetryl	241 > 181		2625.518									
245795008	Nitrobenzene	123 > 46		2625.518									
245795008	4-Amino-26-dinitrotoluene	197 > 167		2625.518									
245795008	2-Amino-46-dinitrotoluene	197 > 180		15390.931									
245795008	246-Trinitrotoluene	227 > 210		15390.931									
245795008	34-dinitrotoluene	182 > 152	14.38	7663.389		7663.389	248.958	bb			274.7877	109.9	9.9
245795008	26-dinitrotoluene	182 > 152		15390.931									
245795008	24-dinitrotoluene	182 > 152		15390.931									
245795008	26-dinitrotoluene-d3	185 > 155	17.42	15390.931		15390.931	15390.931	bb			442.0508	88.4	-11.6
245795008	2-Nitrotoluene	137 > 46		15390.931									2009.8
245795008	4-Nitrotoluene	137 > 46		15390.931									
245795008	3-Nitrotoluene	137 > 46		15390.931									
245795008	PETN	361 > 62		15390.931									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7881

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795008

Sample Amount 2

Moisture: 37.1

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170028.wiff

Date Analyzed: 17-FEB-10 16:30

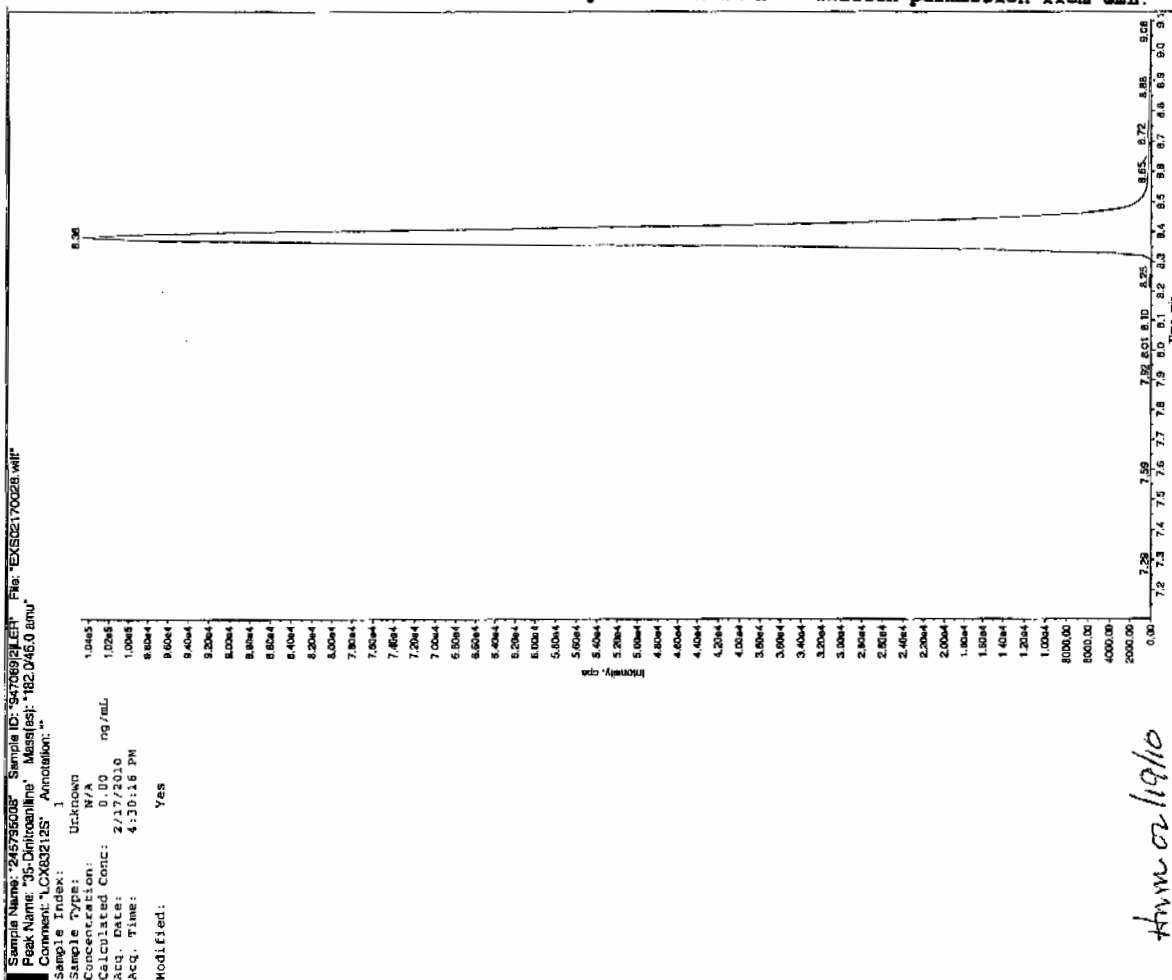
Units: ug/kg

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

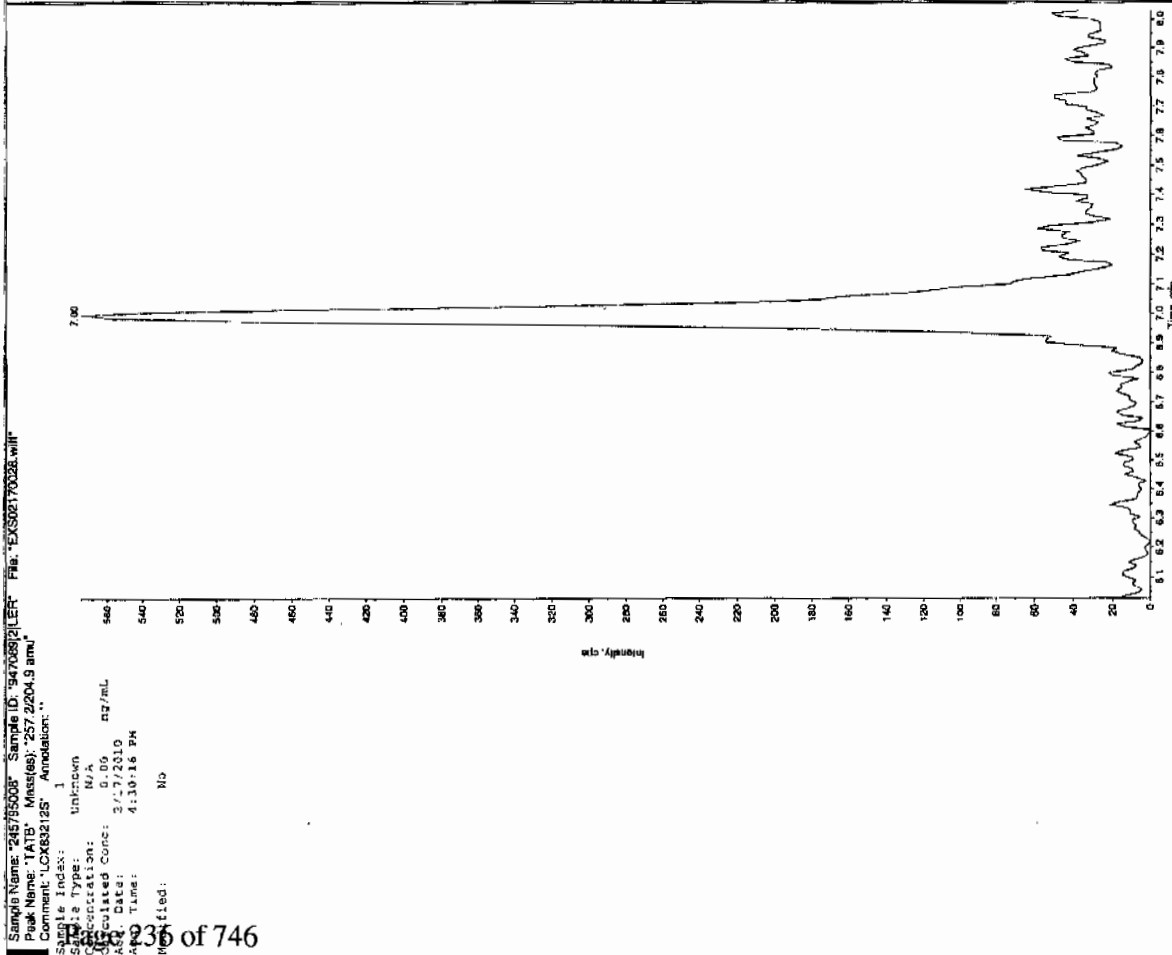
*Concentration =

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

Jan 2/19/10

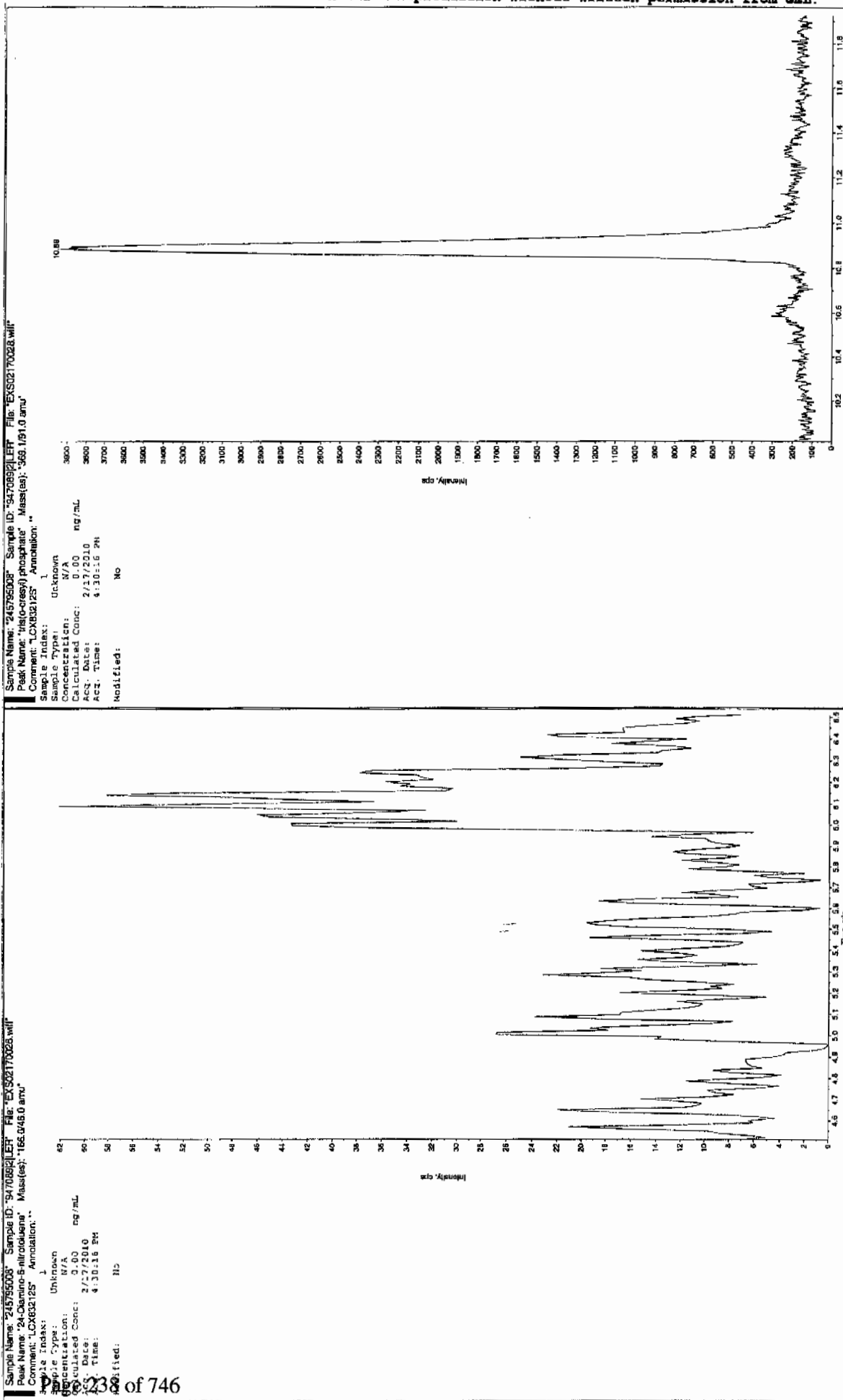


Jan 2/19/10



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1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216195a

Date Analyzed: 20-FEB-10 17:20

Units: ug/kg

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

*Concentration =

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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216195a

Date: 20-Feb-2010

Time: 17:20:35

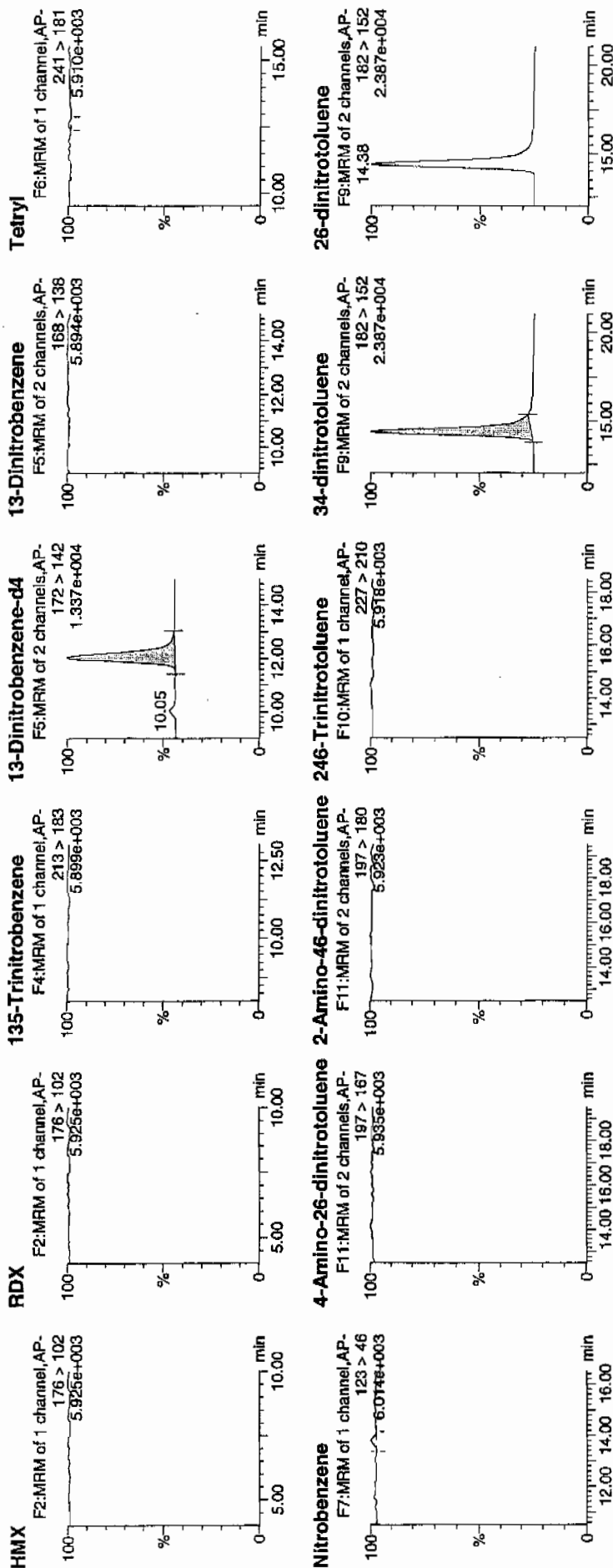
ID: 245795009

Vial: 4:5,A

not
2/21/10

947089 / 8022 / 21

Page 240 of 746

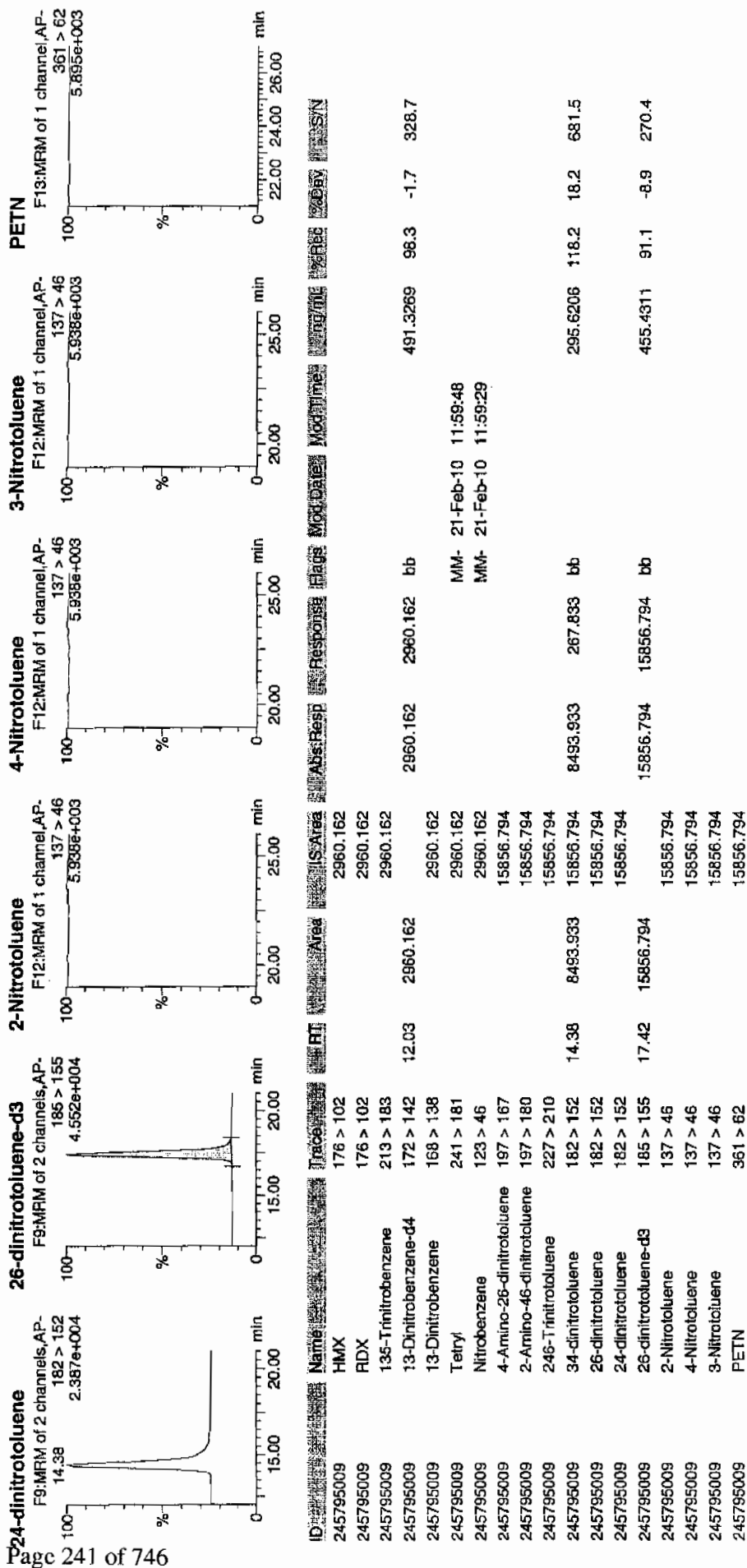


AMP 2/21/10

Printed: Sun Feb 21 12:01:24 2010, Page 32 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYN\New_Exp\PROV021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7951

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795009

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170029.wiff

Date Analyzed: 17-FEB-10 16:45

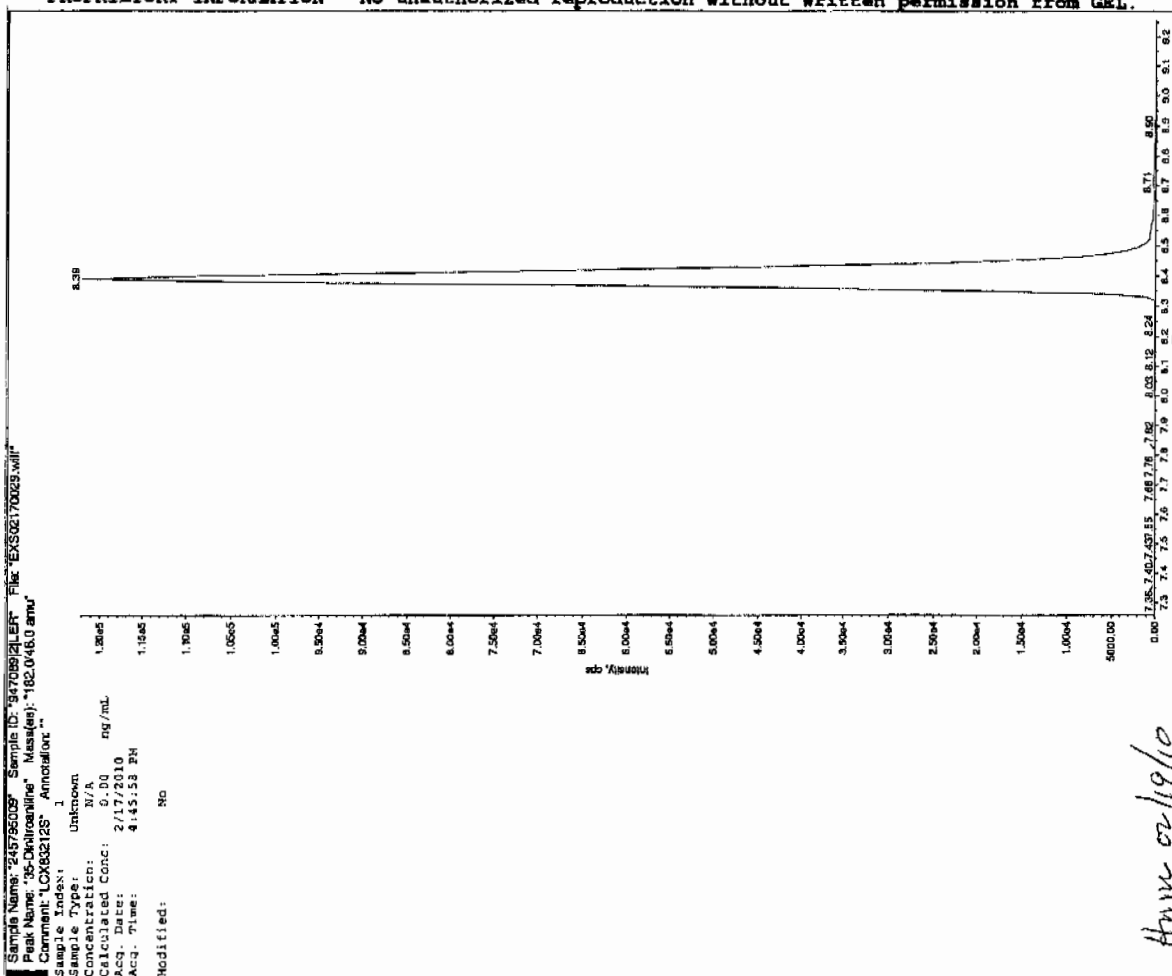
Units: ug/kg

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

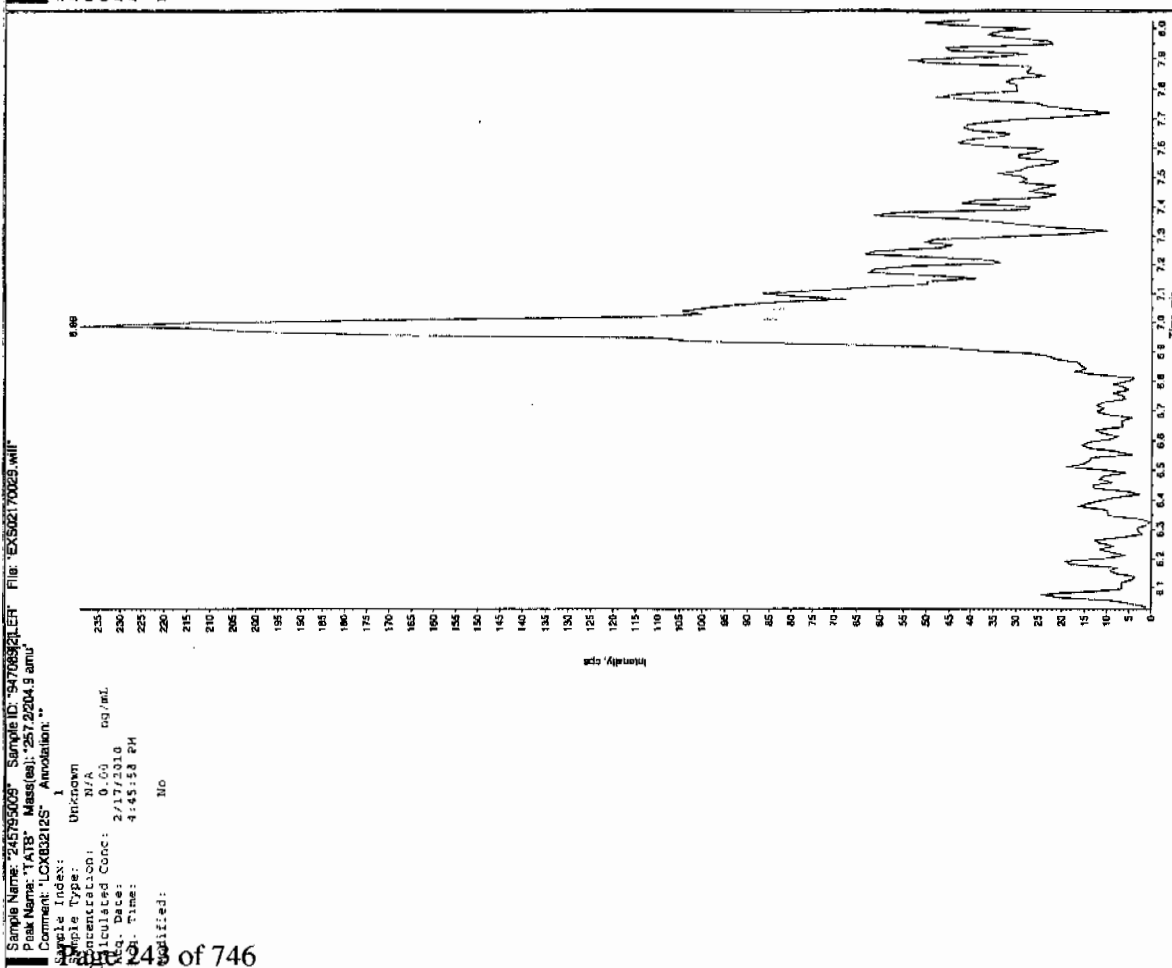
*Concentration =

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

Jan 21/10



Amu 02/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245795009" Sample ID: "94709921.1ER" File: "EXS02170029.wif"

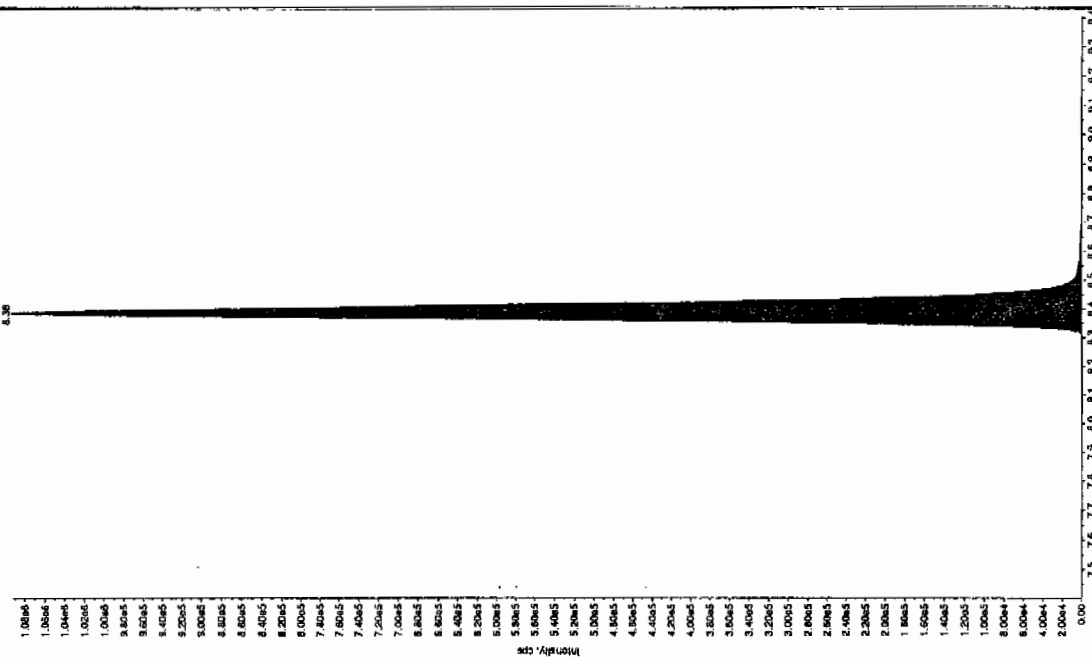
Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 2.1772010
Acq. Date: 2/17/2010
Acq. Time: 4:45:56 PM

Modified: No
Int. Type: Valley
Retention Time: 8.39 min
Area: 4.16e+006 counts
Height: 10936.0352 cps
Start Time: 8.28 min
End Time: 8.76 min

Proc. Algorithm: IntelliQuan - IQN
Peak Height: 1462.00 cps
Peak Width: 0.00 sec
Smoothing Width: 15.0 points
Window: 4 sec
Expected RT: 9.40 min
Use Relative RT: No



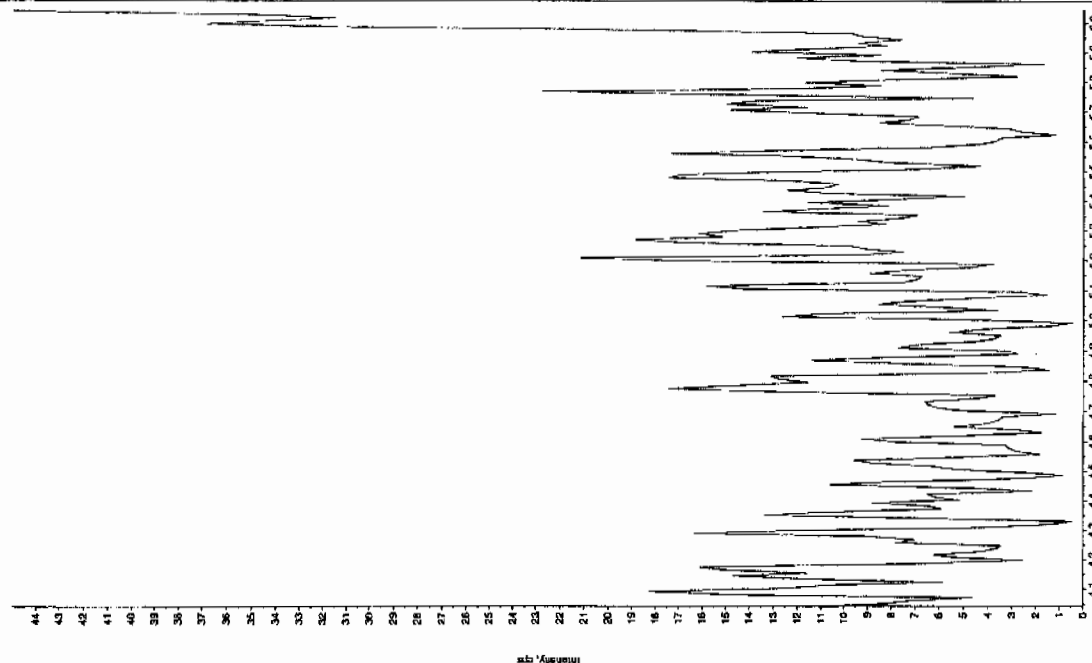
Sample Name: "245795009" Sample ID: "94709921.1ER" File: "EXS02170029.wif"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""

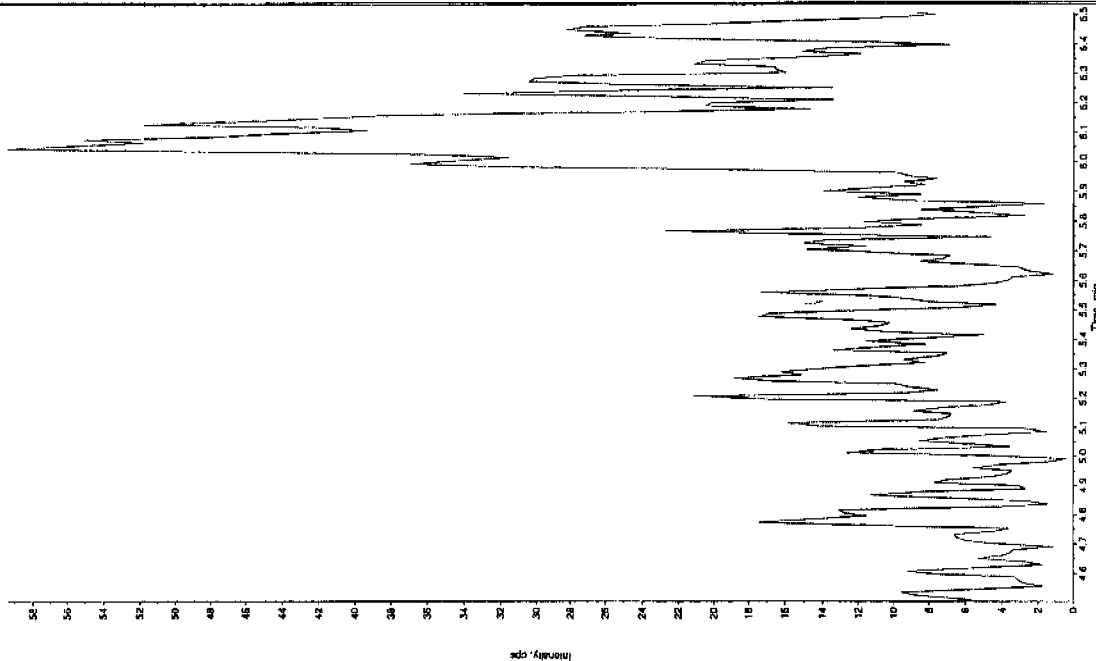
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Calculated Conc: 2.1772010
Acq. Date: 2/17/2010
Acq. Time: 4:45:56 PM

Modified: No



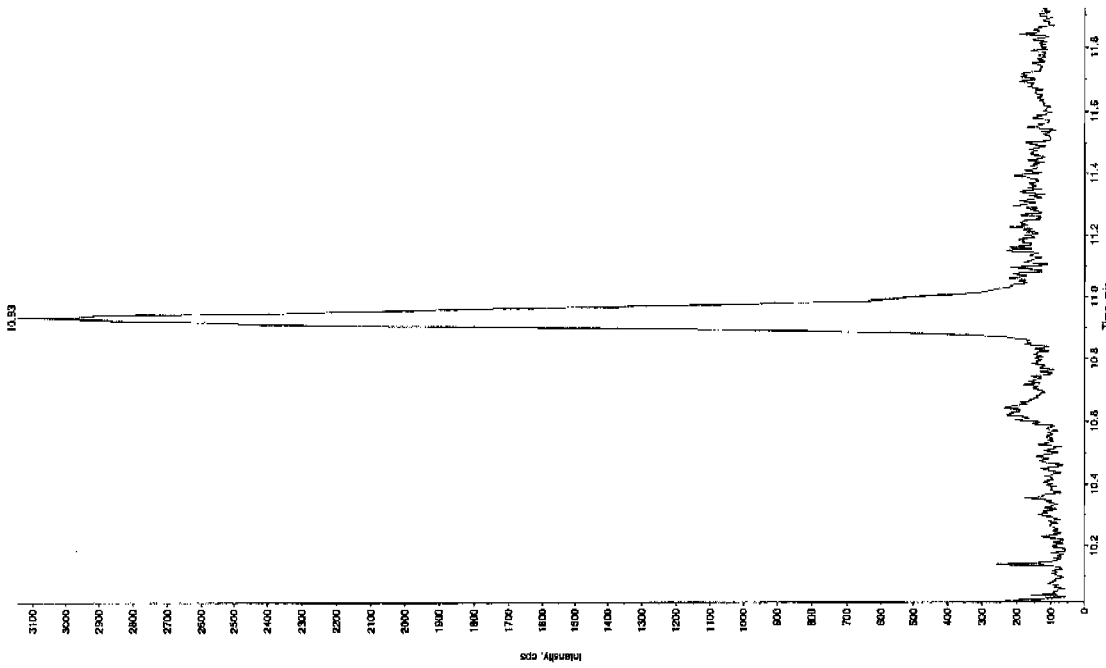
Sample Name: "245755005" Sample ID: "94708921ER" File: "EX502170029.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.7132010 ug/mL
 Acq. Date: 4/25/08 PM
 Acq. Time: 4:45:58 PM
 Modified: No



Sample Name: "245755005" Sample ID: "94708921ER" File: "EX502170029.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.7132010 ug/mL
 Acq. Date: 4/25/08 PM
 Acq. Time: 4:45:58 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216196a

Date Analyzed: 20-FEB-10 17:50

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\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216196a

Date: 20-Feb-2010

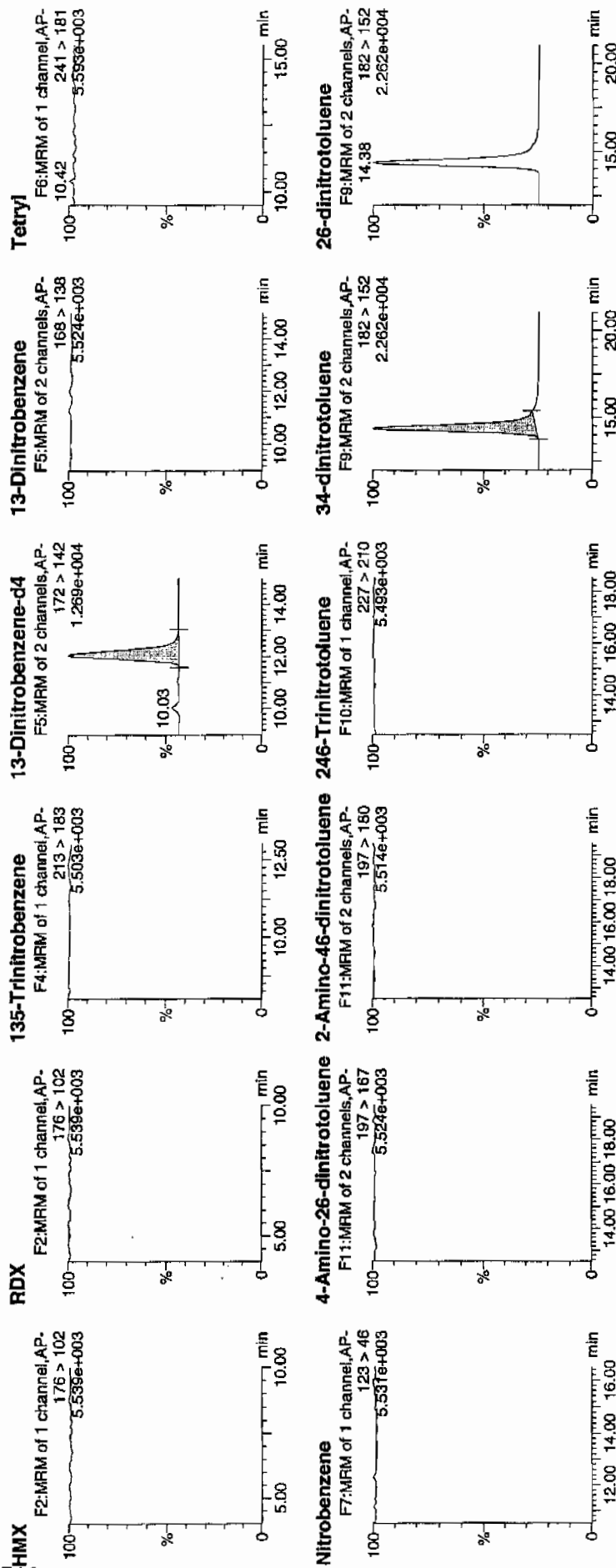
Time: 17:50:21

ID: 245795010

Vial: 4:5,B

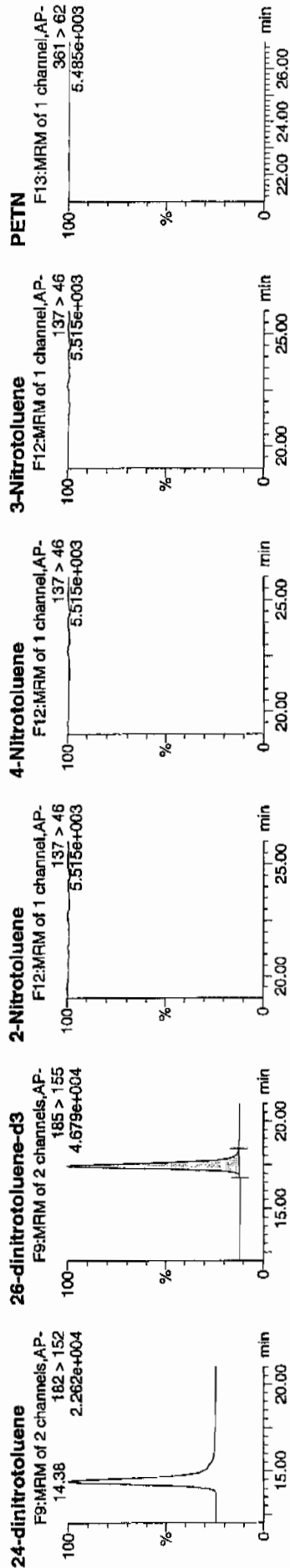
4077
2/24/10

WV 947089 / Sars 121



Amw 12/2/10

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod	Int	%Rec	%Dev	S/N
245795010	HMX	176 > 102			2893.917								
245795010	RDX	176 > 102			2893.917								
245795010	135-Trinitrobenzene	213 > 183			2893.917								
245795010	13-Dinitrobenzene-d4	172 > 142	12.03	2893.917		2893.917	2893.917	bb		480.3316	96.1	-3.9	285.4
245795010	13-Dinitrobenzene	168 > 138			2893.917								
245795010	Tetryl	241 > 181			2893.917								
245795010	Nitrobenzene	123 > 46			2893.917								
245795010	4-Amino-26-dinitrotoluene	197 > 167			16189.825								
245795010	2-Amino-46-dinitrotoluene	197 > 180			16189.825								
245795010	246-Trinitrotoluene	227 > 210			16189.825								
245795010	34-dinitrotoluene	182 > 152	14.38	7875.769	16189.825	7875.769	243.232	bb		268.4678	107.4	7.4	827.1
245795010	26-dinitrotoluene	182 > 152			16189.825								
245795010	24-dinitrotoluene	182 > 152			16189.825								
245795010	26-dinitrotoluene-d3	185 > 155	17.42	16189.825		16189.825	16189.825	bb		464.9962	93.0	-7.0	1366.4
245795010	2-Nitrotoluene	137 > 45			16189.825								
245795010	4-Nitrotoluene	137 > 45			16189.825								
245795010	3-Nitrotoluene	137 > 46			16189.825								
245795010	PETN	361 > 62			16189.825								

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7950

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795010

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170030.wiff

Date Analyzed: 17-FEB-10 17:01

Units: ug/kg

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

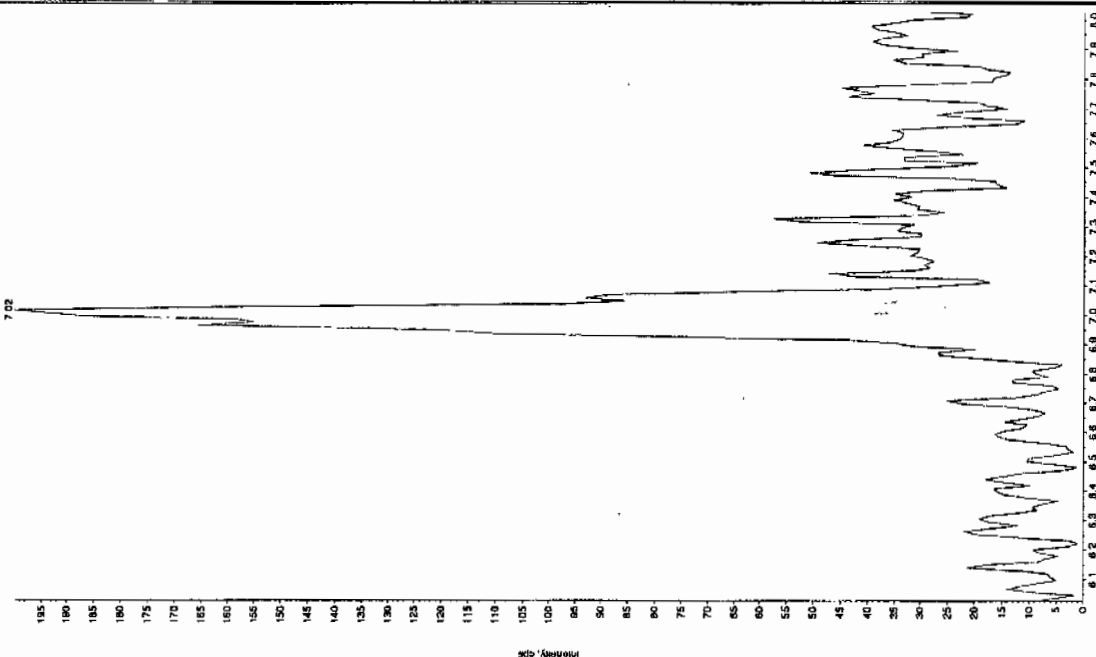
*Concentration =

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

See 2/12/10

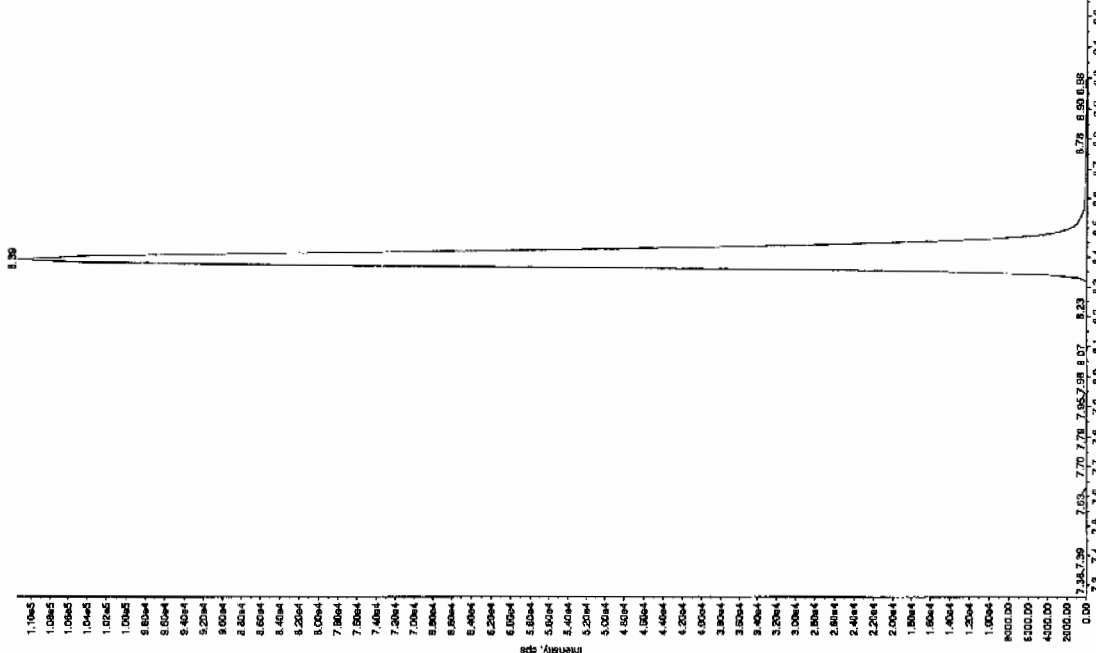
Sample Name: "245795010" Sample ID: "94708921LER" File: "EXS02170030.will"
 Peak Name: "1A1B" Mass(es): "257.2204.9 amu"
 Comment: "LCX532125" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 5:01:40 PM
 Acq. Time: 5:01:40 PM
 Modified: No



Sample Name: "245795010" Sample ID: "94708921LER" File: "EXS02170030.will"
 Peak Name: "35-Dinitroindole" Mass(es): "182.046.0 amu"
 Comment: "LCX532125" Annotation: "1"

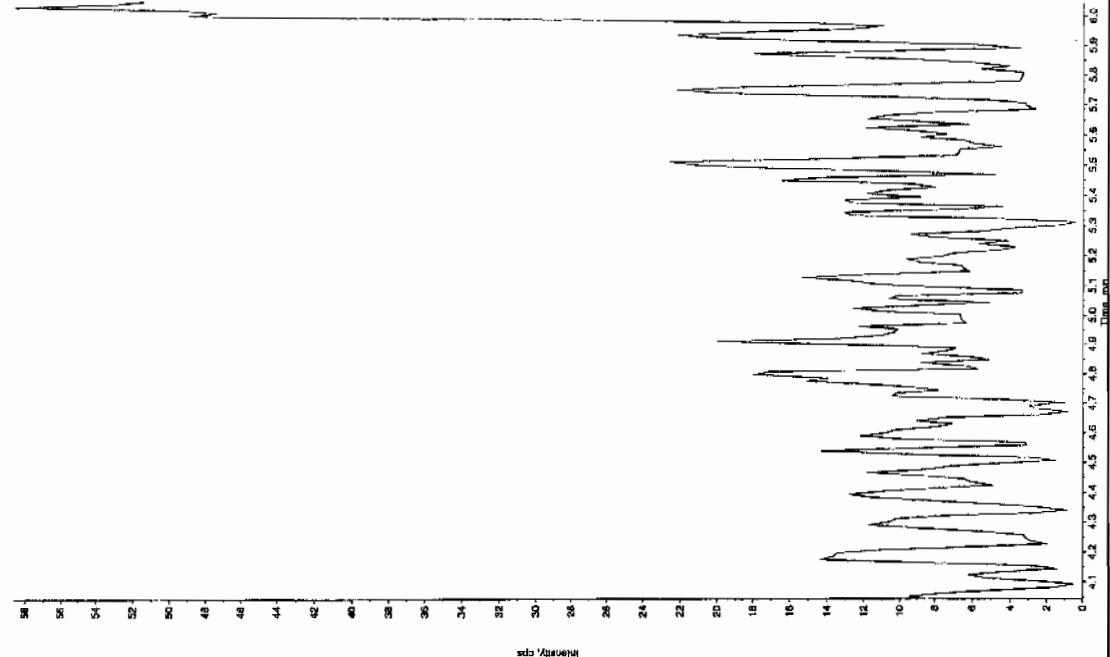
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 5:01:40 PM
 Acq. Time: 5:01:40 PM
 Modified: No



Amw on 12/10

Sample Name: "245795010" Sample ID: "94708921.1ER" File: "EXS02170030.wif"
 Peak Name: "26-Diamino-4-nitroindene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

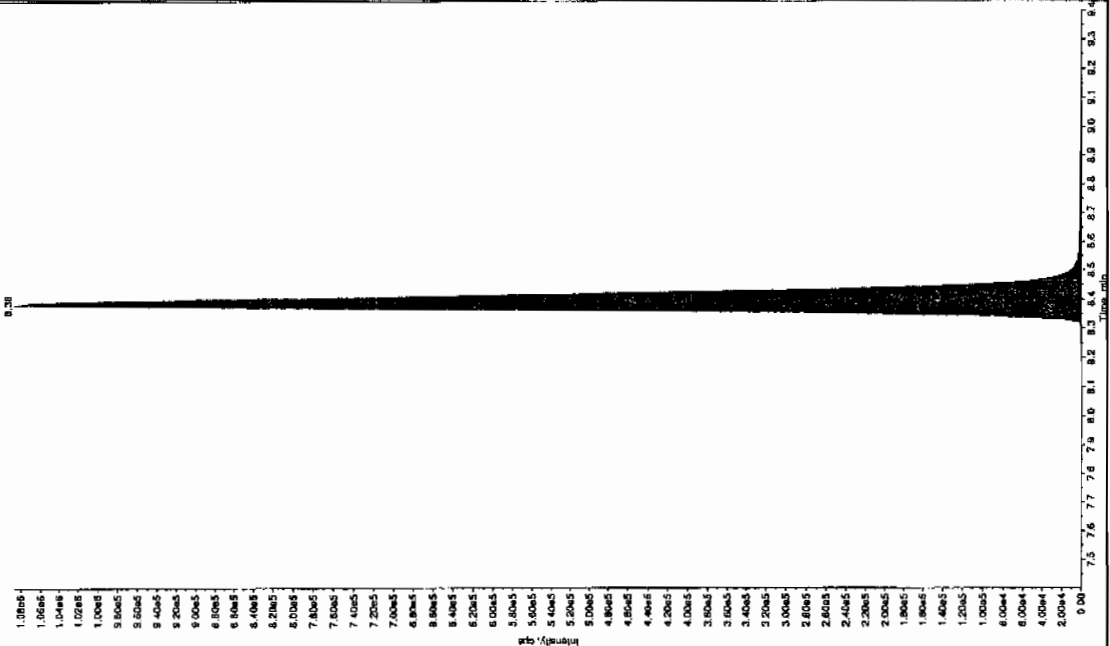
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.001 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:02:40 PM
 Modified: No



Sample Name: "245795010" Sample ID: "94708921.1ER" File: "EXS02170030.wif"
 Peak Name: "34-Dinitroindene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

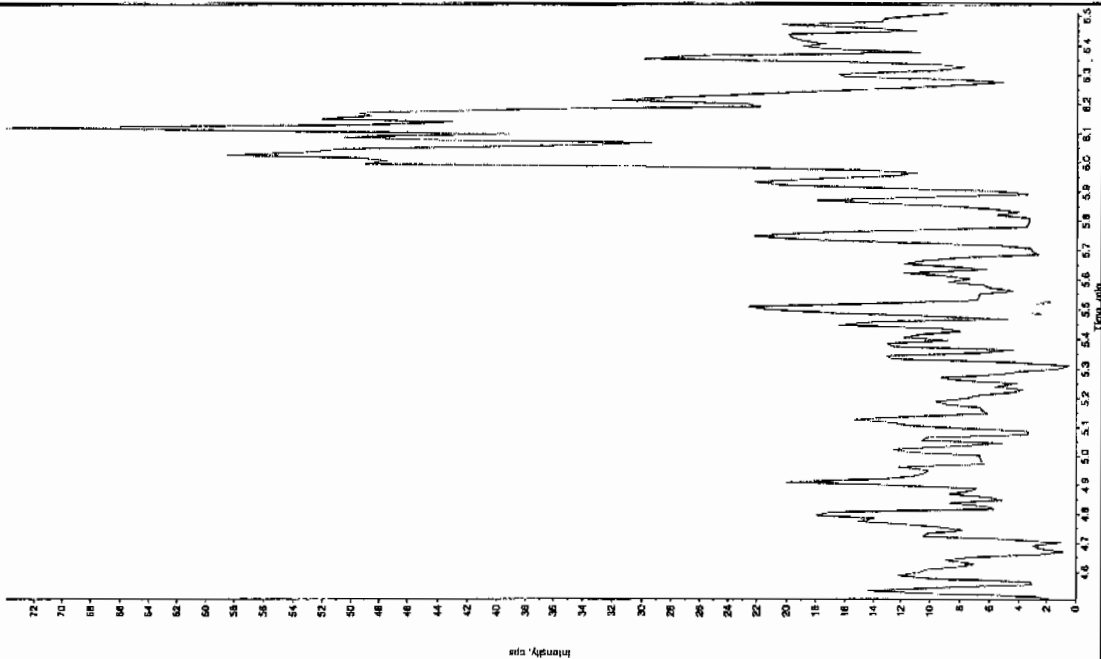
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.06 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:02:40 PM
 Modified: No

Proc. Algorithm: InelasticQu - 1QA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Selected RT: 5.40 min
 Use Relative RT: No



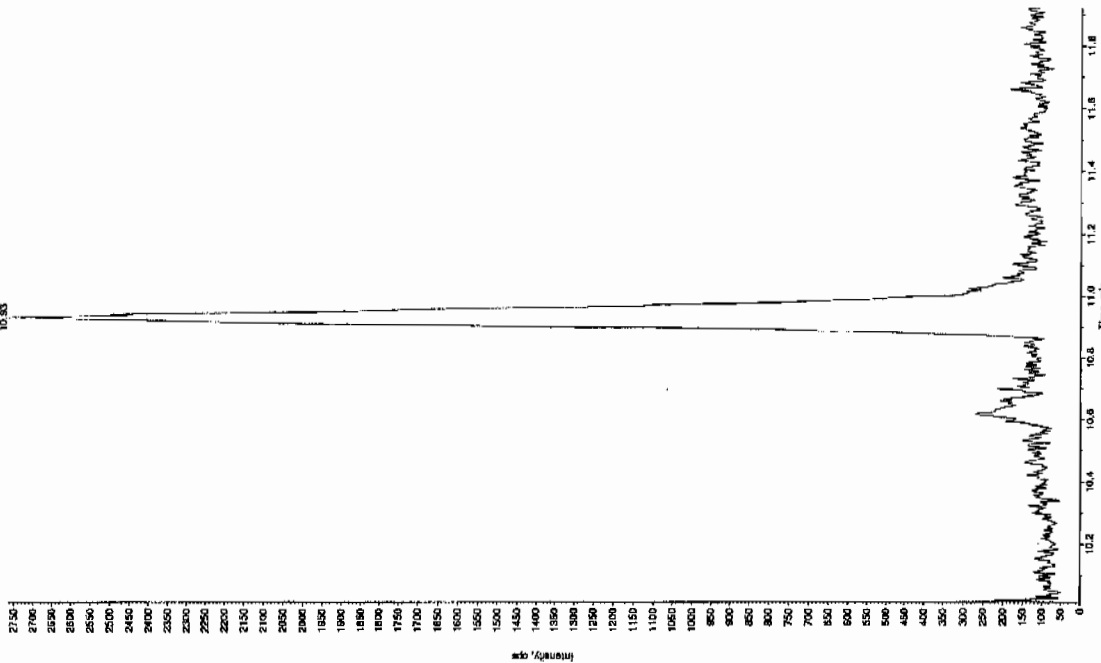
Sample Name: "245795010" Sample ID: "94708421.ER" File: "EX502170030.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX502125" Annotation: --

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:01:40 PM
 Modified: No



Sample Name: "245795010" Sample ID: "94708421.ER" File: "EX502170030.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "385.191.0 amu"
 Comment: "LCX502125" Annotation: --

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:01:40 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216197a

Date Analyzed: 20-FEB-10 18:19

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 35 of 105

Quantity Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216197a

Date: 20-Feb-2010

Time: 18:19:51

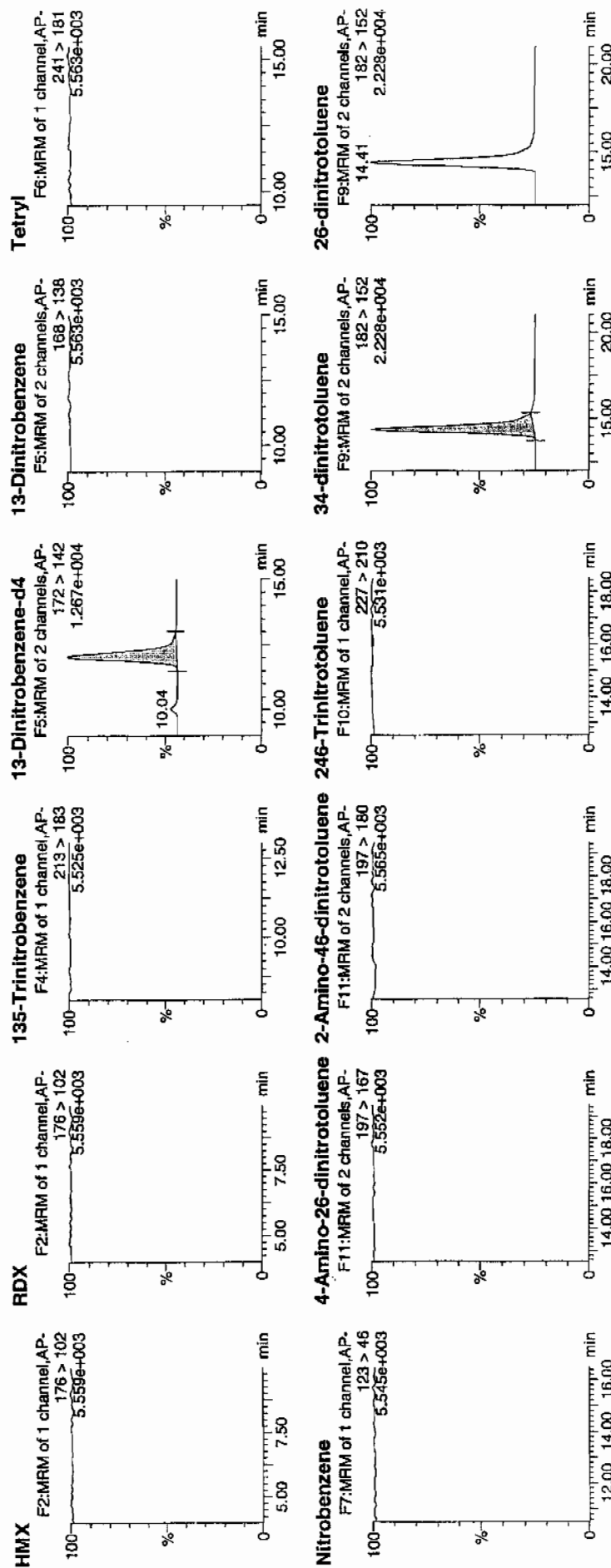
ID: 245795011

Vial: 4:5,C

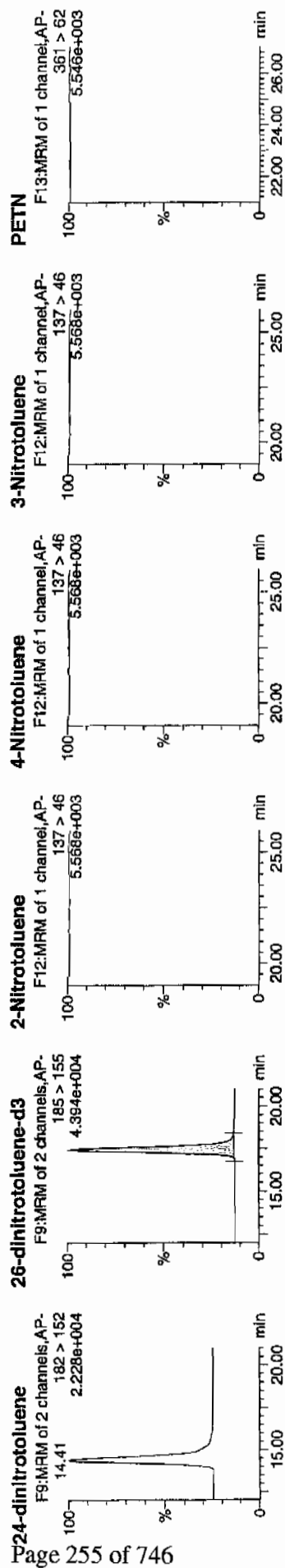
4/4/10
2/4/10

Lawrence / Sales / 21

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4/4/10 2/2/10



Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Norml	Peak	%Dev	S/N
HMX	176 > 102			2900.220									
RDX	176 > 102			2900.220									
135-Trinitrobenzene	213 > 183			2900.220									
13-Dinitrobenzene-d4	172 > 142	12.03	2900.220		2900.220	2900.220	bb			481.3777	96.3	-3.7	539.5
13-Dinitrobenzene	168 > 138			2900.220									
Tetryl	241 > 181			2900.220									
Nitrobenzene	123 > 46			2900.220									
4-Amino-26-dinitrotoluene	197 > 167			15293.089									
2-Amino-46-dinitrotoluene	197 > 180			15293.089									
246-Trinitrotoluene	227 > 210			15293.089									
34-dinitrotoluene	182 > 152	14.41	8013.831	15293.089	8013.831	262.008	bb			289.1920	115.7	15.7	718.0
26-dinitrotoluene	182 > 152			15293.089									
24-dinitrotoluene	182 > 152			15293.089									
26-dinitrotoluene-d3	185 > 155	17.43	15293.089		15293.089	15293.089	bb			439.2406	87.8	-12.2	1602.8
2-Nitrotoluene	137 > 46			15293.089									
4-Nitrotoluene	137 > 46			15293.089									
3-Nitrotoluene	137 > 46			15293.089									
PETN	361 > 62			15293.089									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7947

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795011

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170031.wiff

Date Analyzed: 17-FEB-10 17:17

Units: ug/kg

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

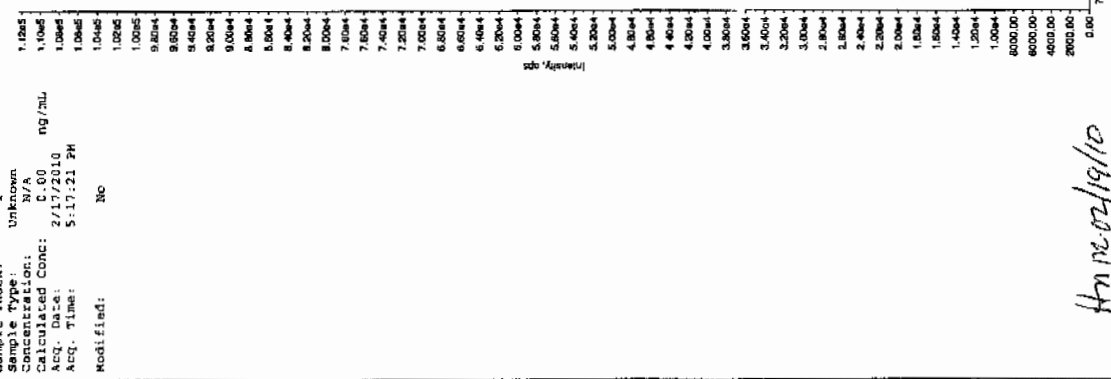
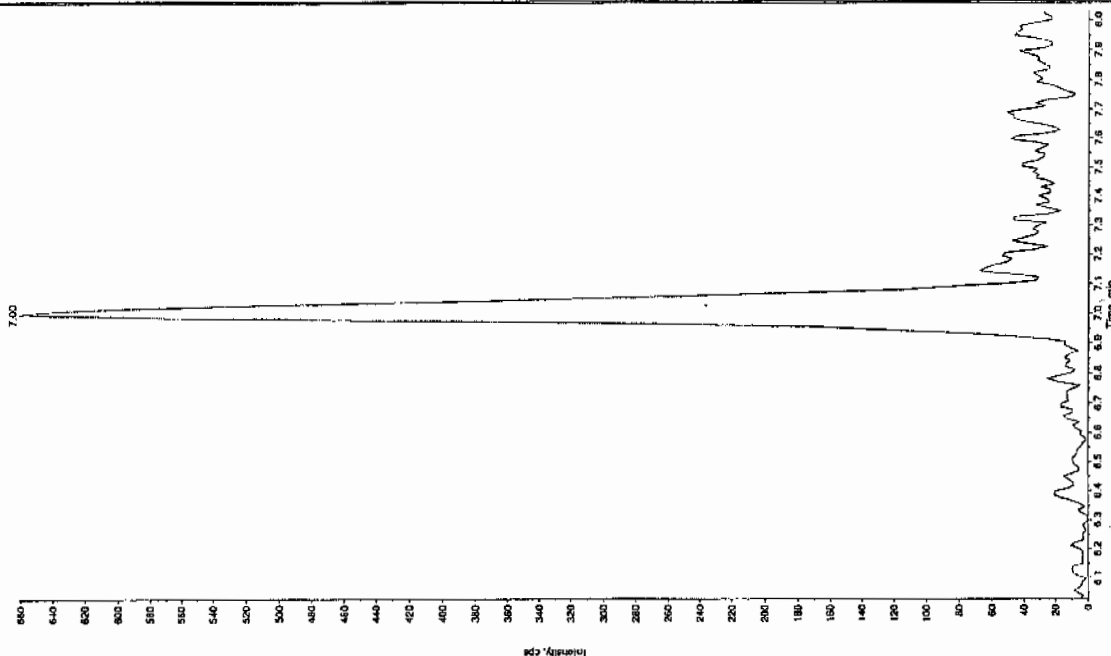
*Concentration =

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

See 2/19/10

Sample Name: "245755011" Sample ID: "94708621.ER" File: "EXS02170031.wif"
 Peak Name: "TATB" Mass(es): "257.29043 amu"
 Comment: "LCX832125" Annotation: "

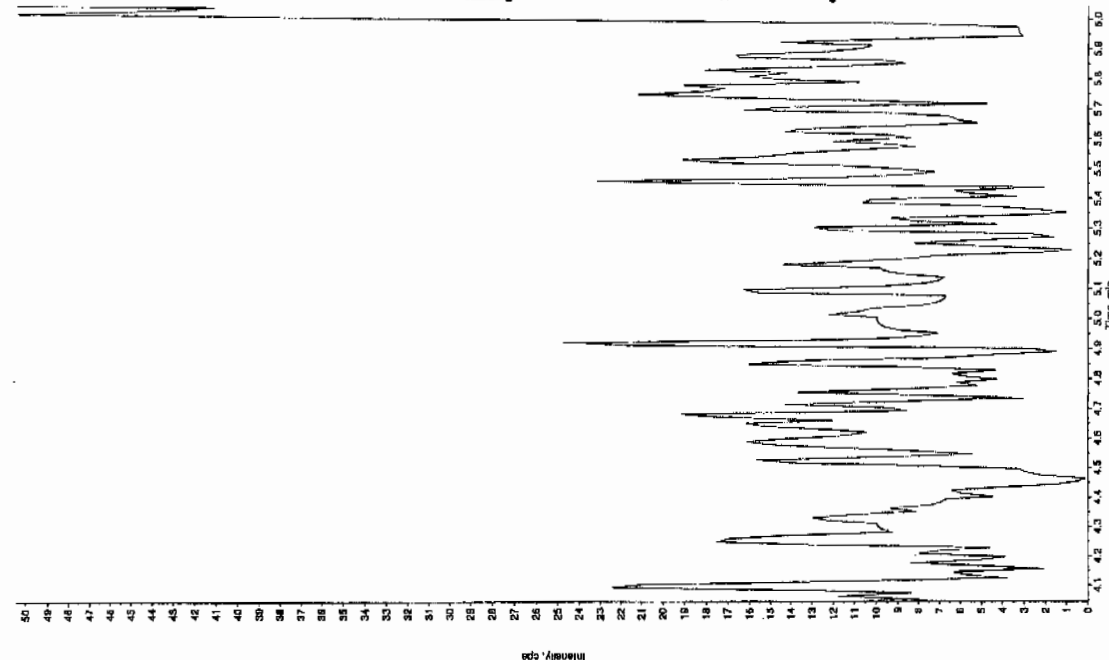
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:17:21 PM
 Modified: No



Amr 02/19/10

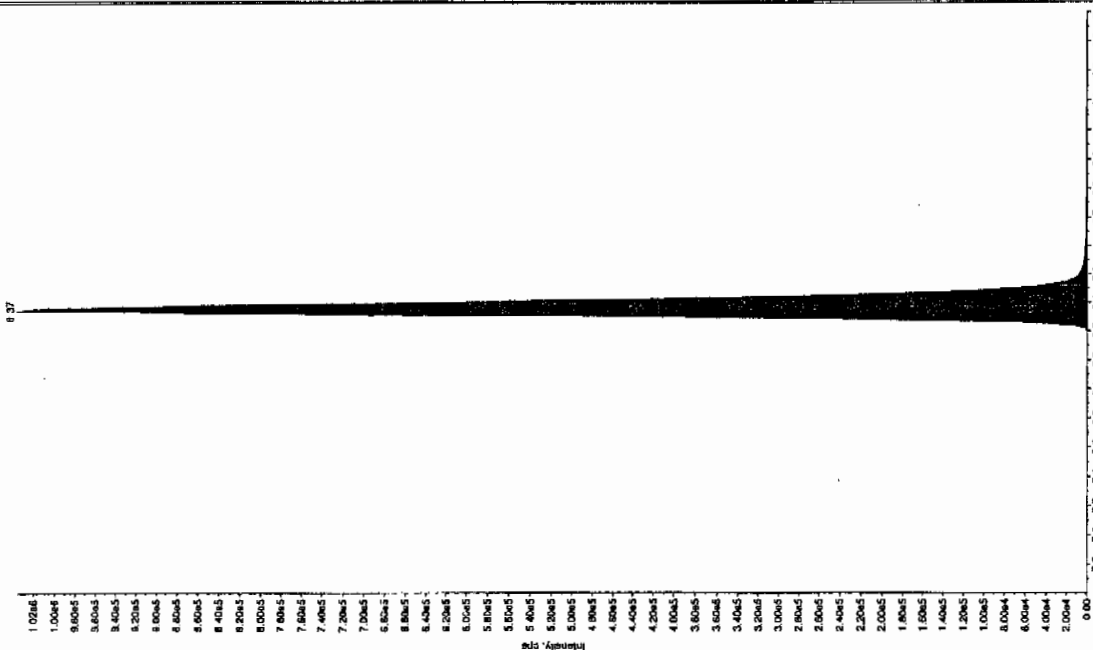
Sample Name: "245795011" Sample ID: "94708921EF" File: "EX502170031.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:17:21 PM
 Modified: No



Sample Name: "245795011" Sample ID: "94708921EF" File: "EX502170031.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1161.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 255.
 Acq. Date: 2/17/2010
 Acq. Time: 5:17:21 PM
 Modified: No
 Proc. Algorithm: Integrate - IQA
 Ret. Peak Width: 14.00 cps
 Ret. Peak Width: 3 0.00 sec
 Smoothing Width: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 3.93e-006 counts
 Height: 103549.340 cps
 Start Time: 8.26 min
 End Time: 8.51 min



Sample Name: "245785011" Sample ID: "S4708921LER" File: "EXS02170031.wif"

Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "156.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

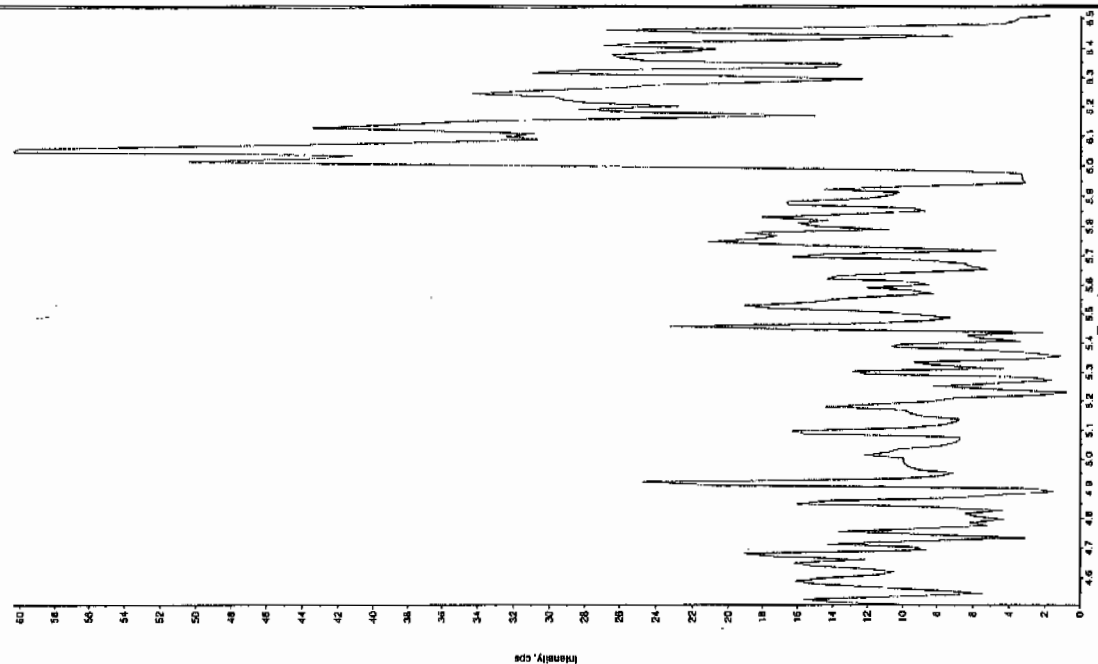
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 2/17/2010

Acq. Time: 5:17:21 PM

Modified: No



Sample Name: "245785011" Sample ID: "S4708921LER" File: "EXS02170031.wif"

Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

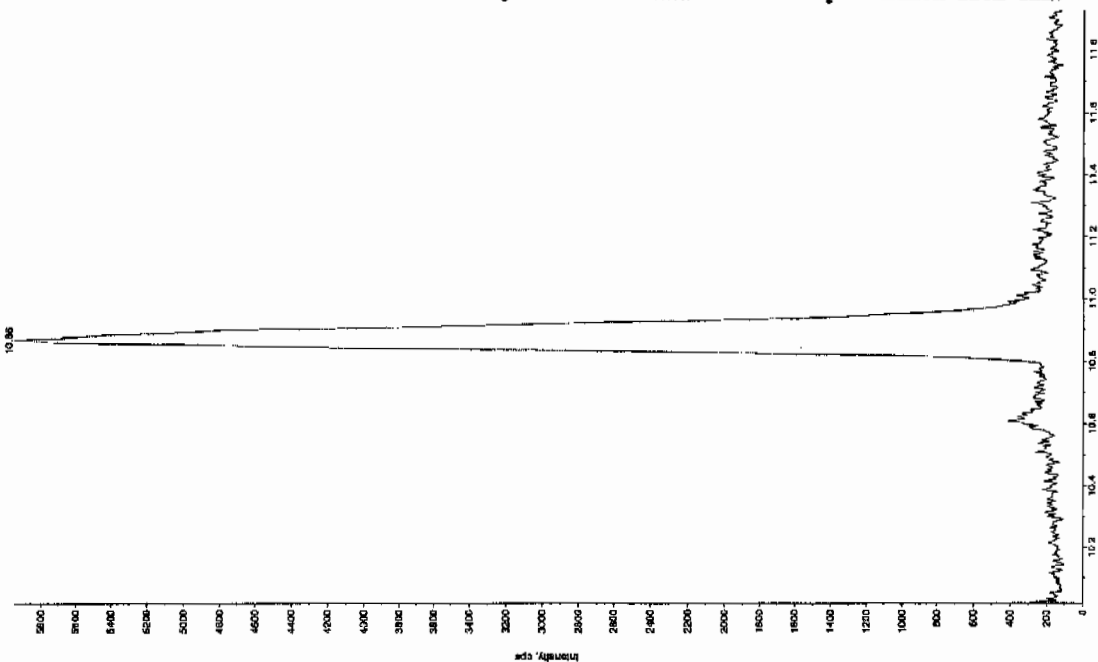
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 2/17/2010

Acq. Time: 5:17:21 PM

Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216198a

Date Analyzed: 20-FEB-10 18:49

Units: ug/kg

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

*Concentration =

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

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0216198a

Date: 20-Feb-2010

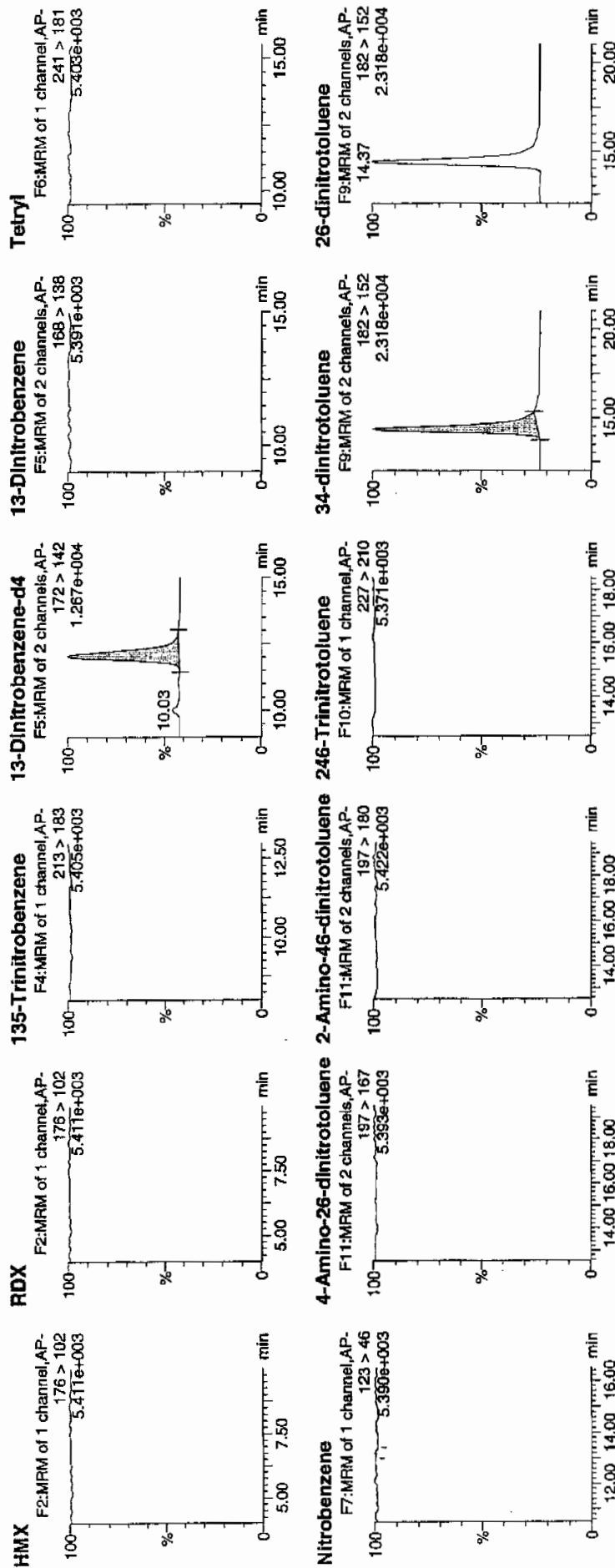
Time: 18:49:20

ID: 245795012

Vial: 4:5,D

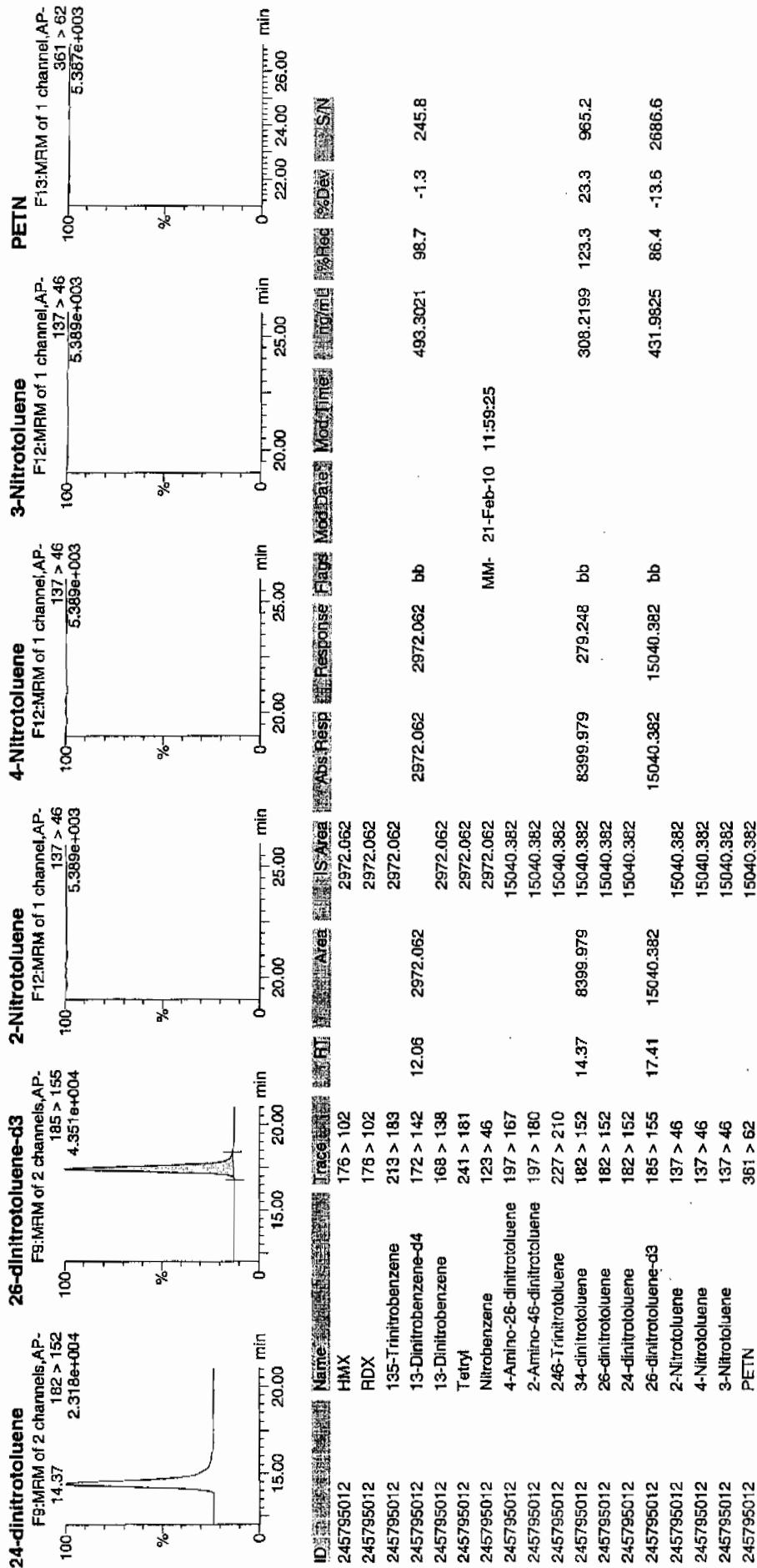
1677
4/21/10

LANC | 947089 | 5022 | 121



4/22/10

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7944

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795012

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170032.wiff

Date Analyzed: 17-FEB-10 17:33

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 Amount		Factor

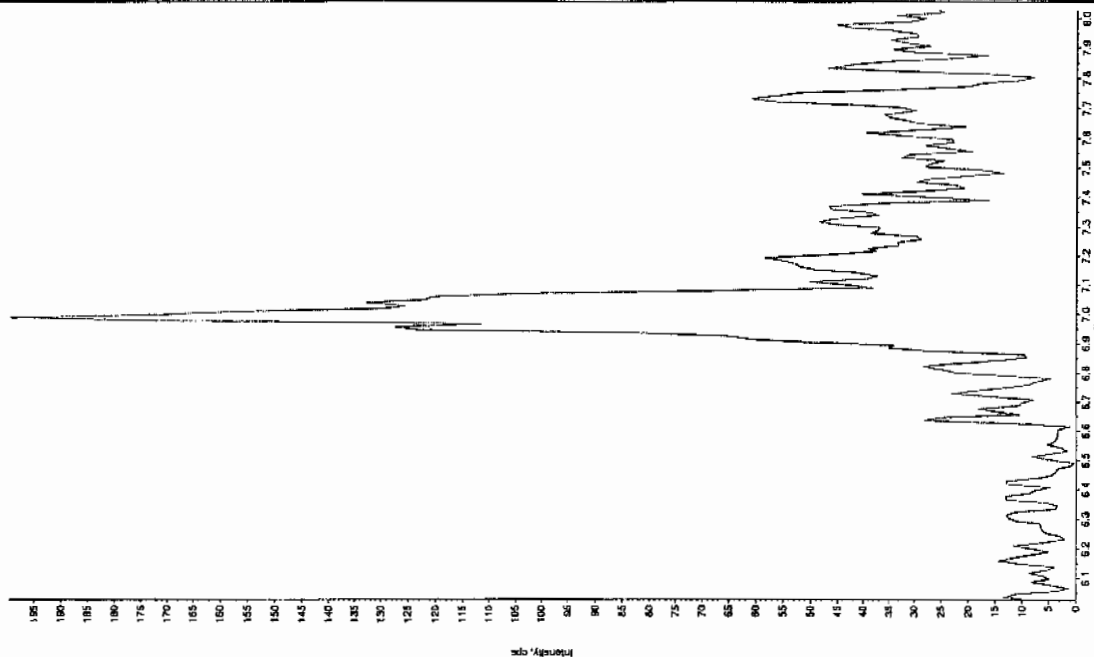
See 2/10/10

Sample Name: "245795012" Sample ID: "94705921.ER" File: "EX502170032.wif"

Peak Name: "1ATB" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 5:33:03 PM
Modified: No

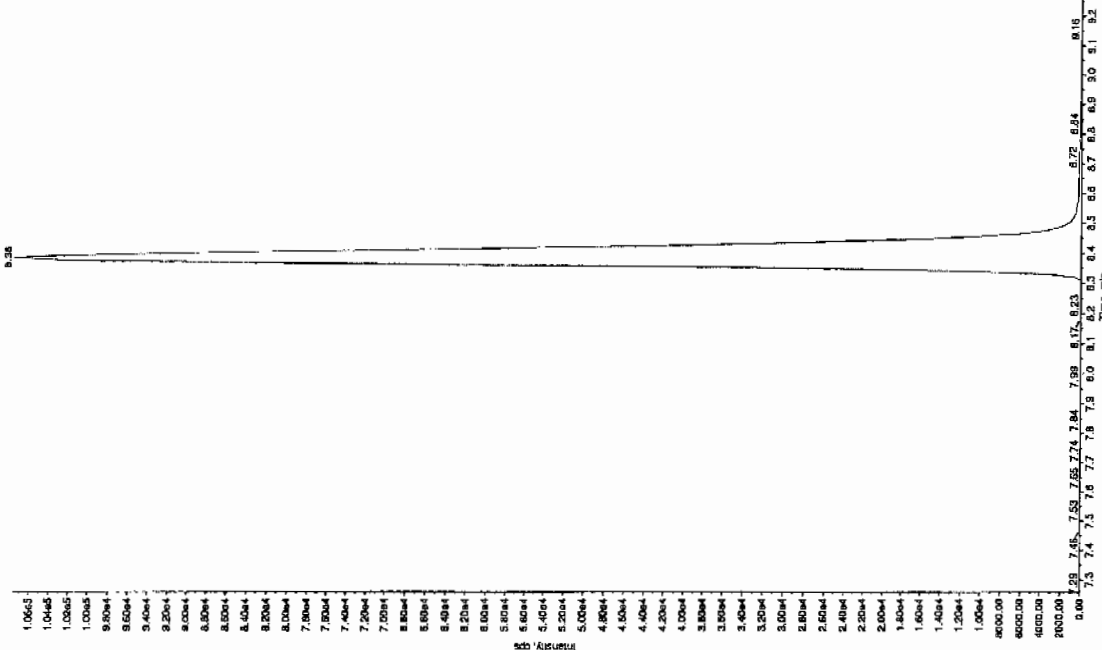


Sample Name: "245795012" Sample ID: "94705921.ER" File: "EX502170032.wif"

Peak Name: "35-Onitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX83212S" Annotation: ""

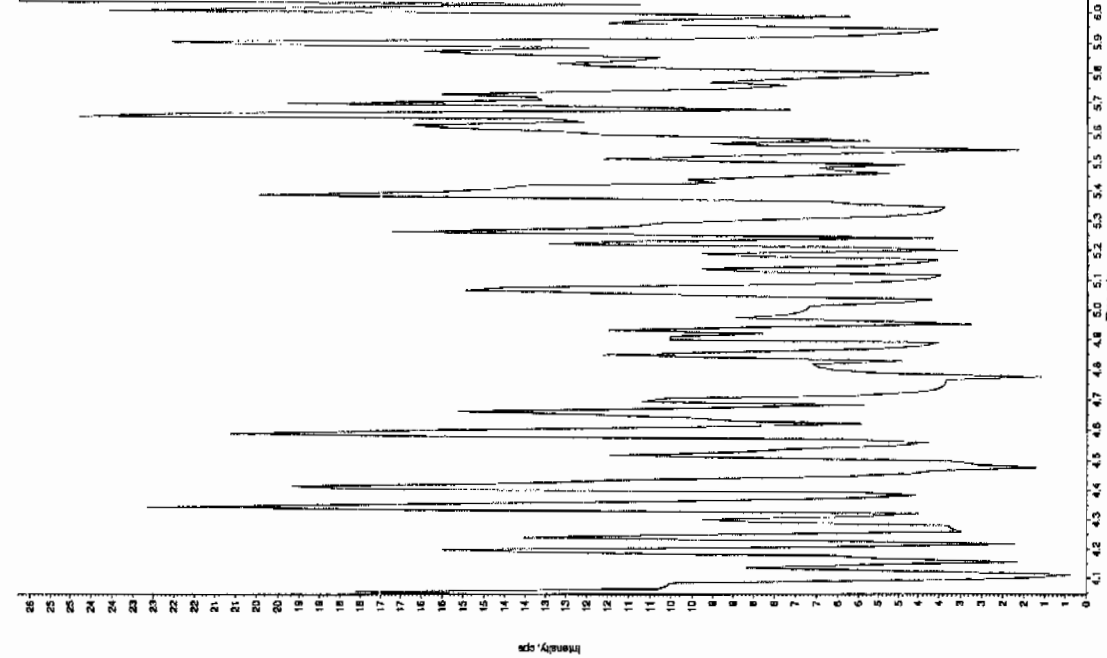
Sample Index: 1
Sample Type: Unknown
Concentration: 0.00 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 5:33:03 PM
Modified: No



4/11/10

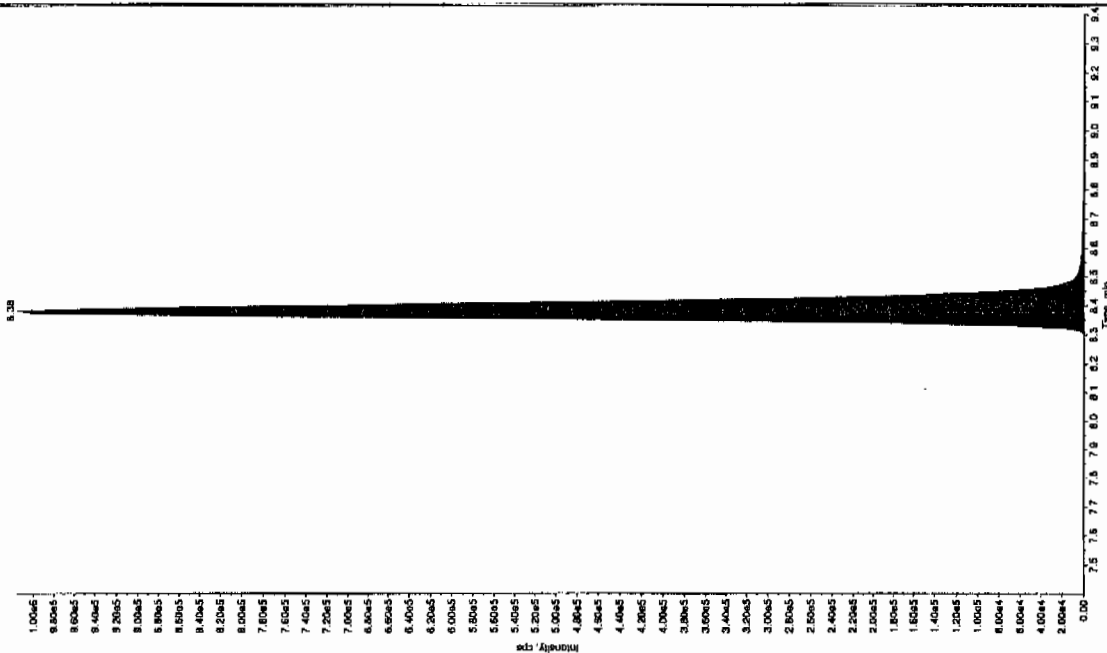
Sample Name: 245795012 Sample ID: 94708921 LEH File: EXS02170032.wif
 Peak Name: 25-Diamino-4-ethylphenol Mass(es): 166.0460 amu
 Comment: LCX652125 Annotation: **

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 5:33:03 PM
 Modified: No



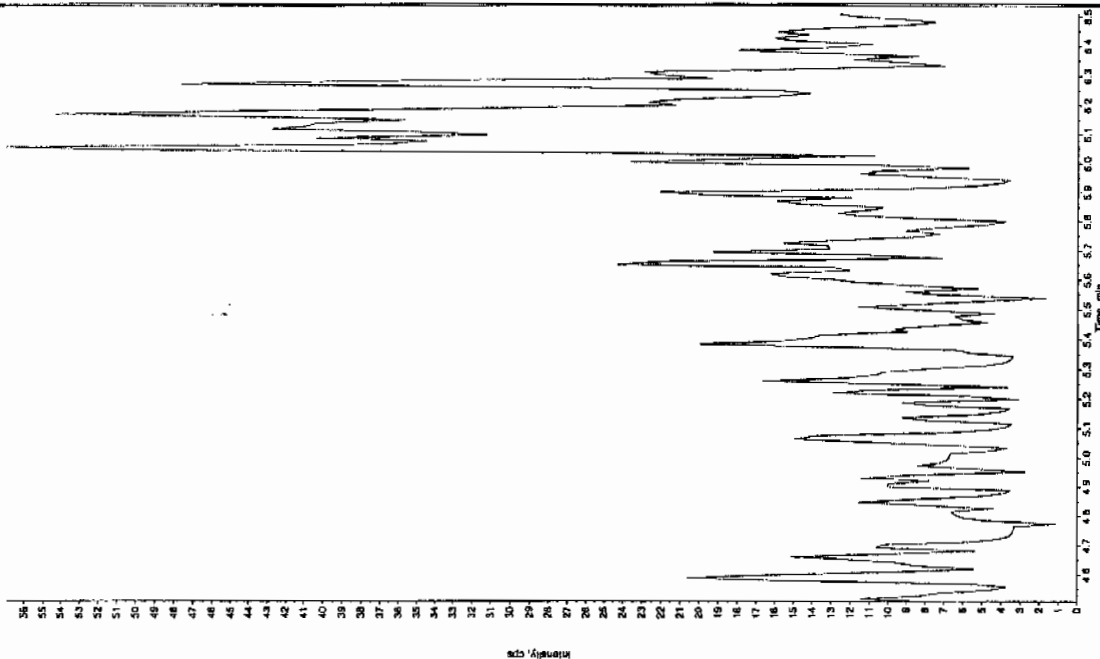
Sample Name: 245795012 Sample ID: 94708921 LEH File: EXS02170032.wif
 Peak Name: 34-Diaminobenzene Mass(es): 182.1513 amu
 Comment: LCX652125 Annotation: **

Sample Index: 1
 Sample Type: Unknown
 Concentration: 303.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 5:33:03 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 No. Peak Height: 1460.00 cps
 Wh. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 Window: 15.0 sec
 Peak Start RT: 8.40 min
 Peak End RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.38 min
 Area: 4.04e+006 counts
 Height: 1016952.942 cps
 Start Time: 8.25 min
 End Time: 8.55 min



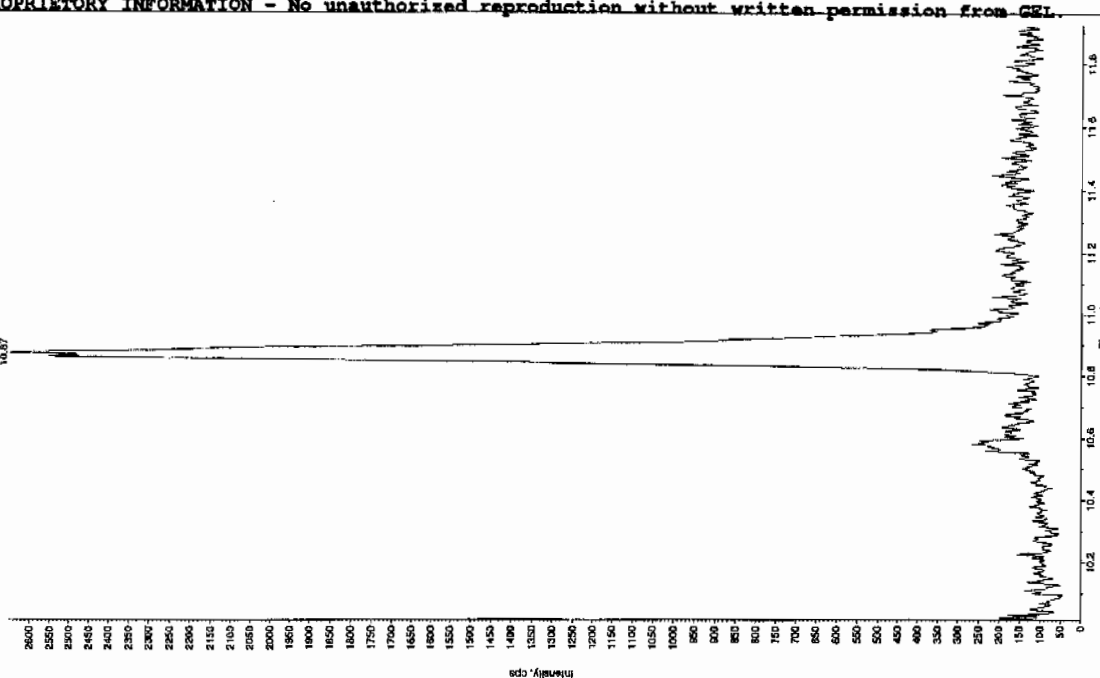
Sample Name: "245796012" Sample ID: "94708921" File: "EXS02170032.wif"
 Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:33:03 PM
 Modified: No



Sample Name: "245796012" Sample ID: "94708921" File: "EXS02170032.wif"
 Peak Name: "Tris(2-cyanoethyl) phosphite" Mass(es): "369.191.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:33:03 PM
 Modified: No



High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216199a

Date Analyzed: 20-FEB-10 19:19

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 39 of 105

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216199a

Date: 20-Feb-2010

Time: 19:19:04

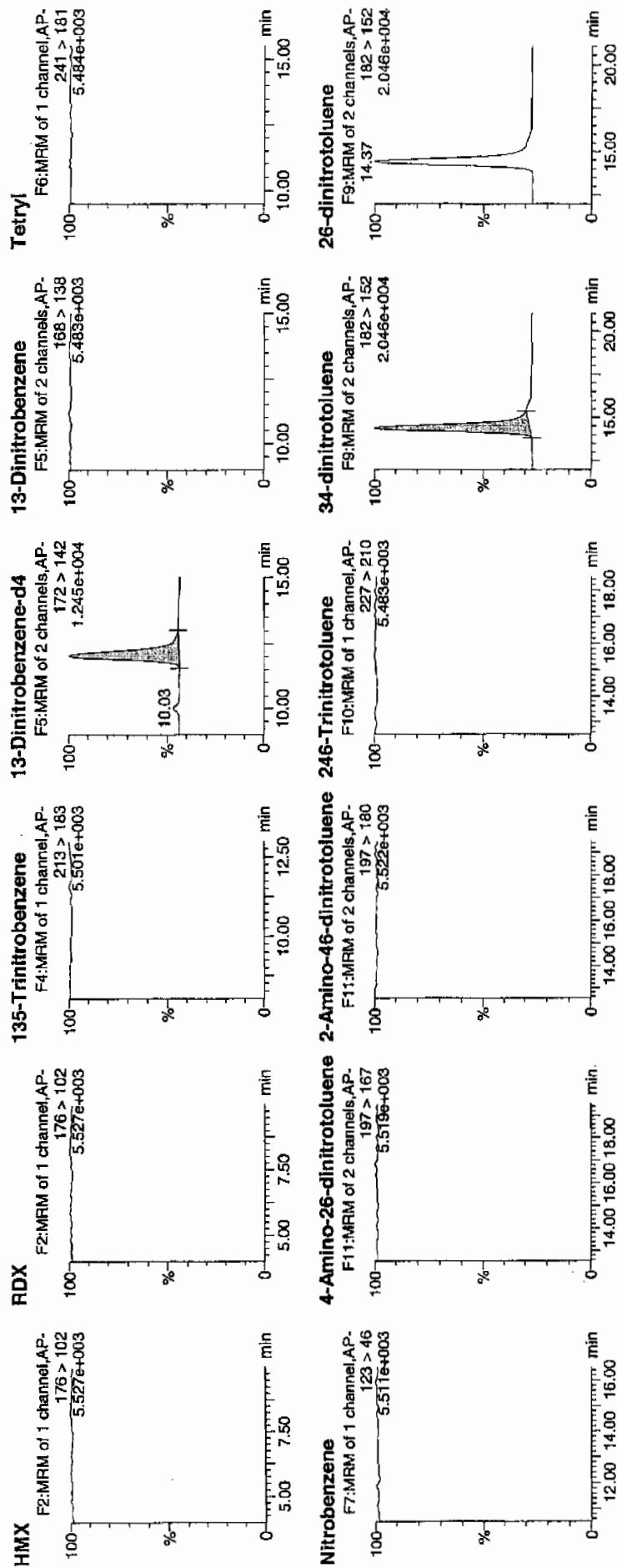
ID: 245795013

Vial: 4:5,E

1007
4/6/10

LAU 947009 / Solas / 21

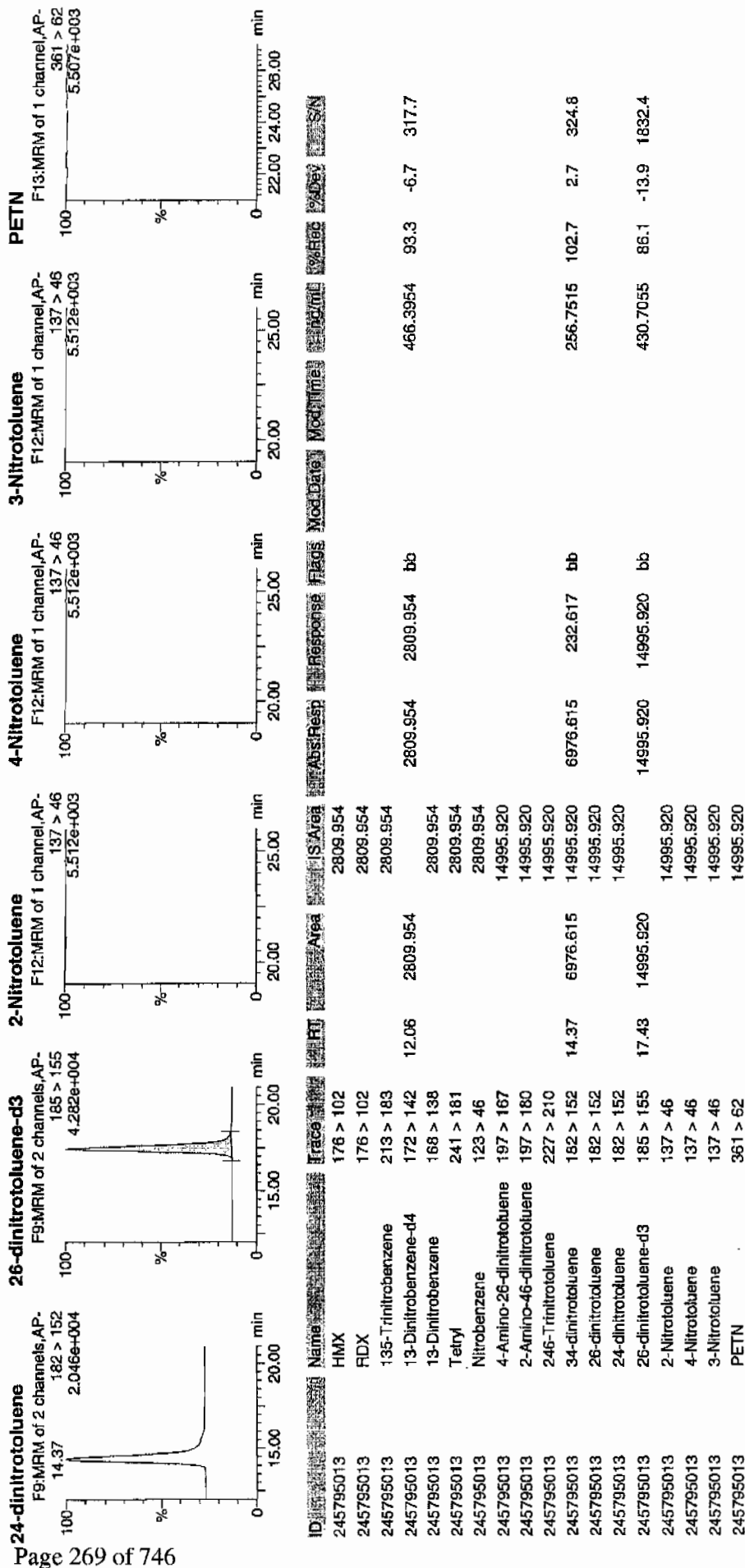
Page 268 of 746



ANAL 02/22/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7948

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795013

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170033.wiff

Date Analyzed: 17-FEB-10 17:48

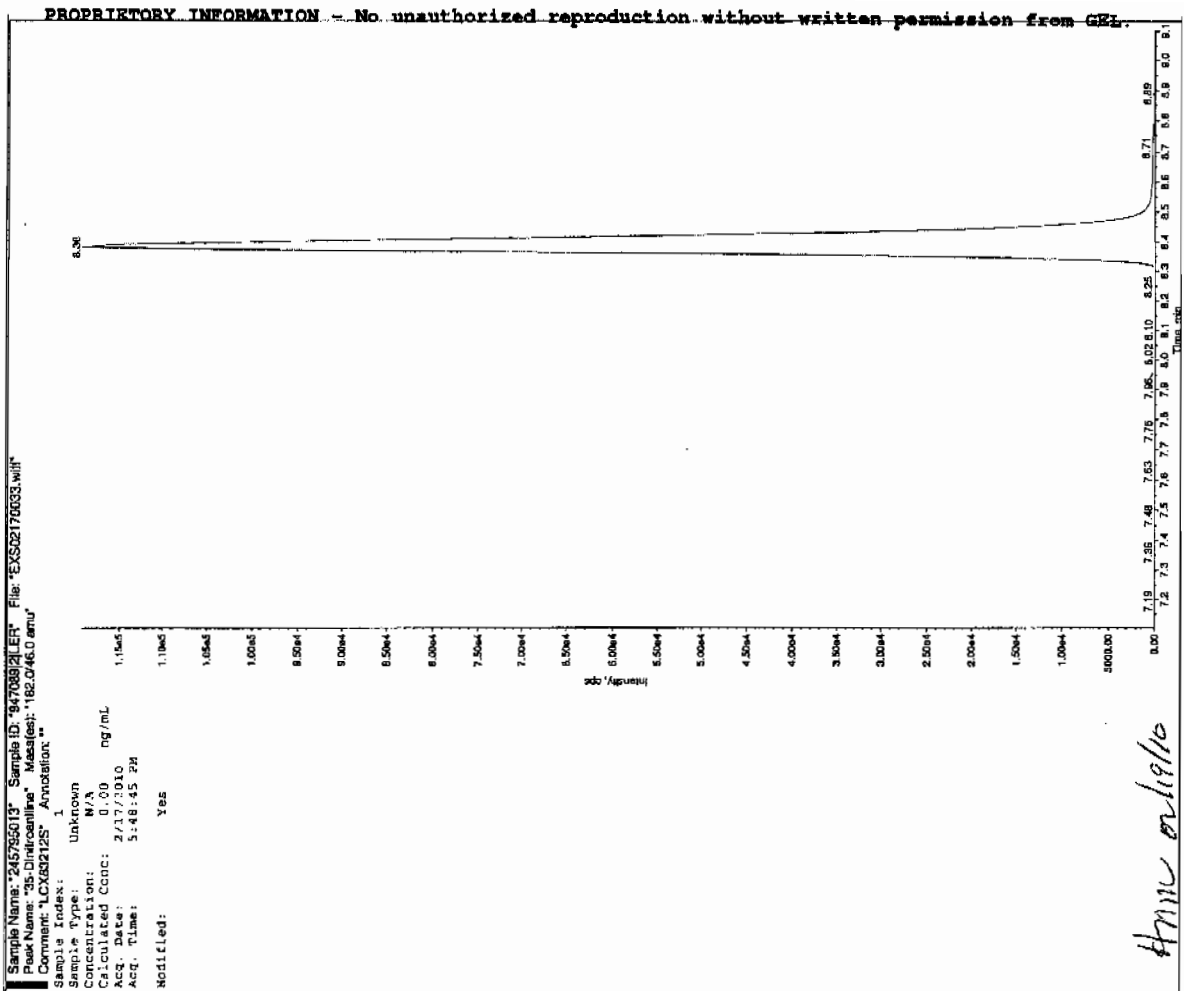
Units: ug/kg

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

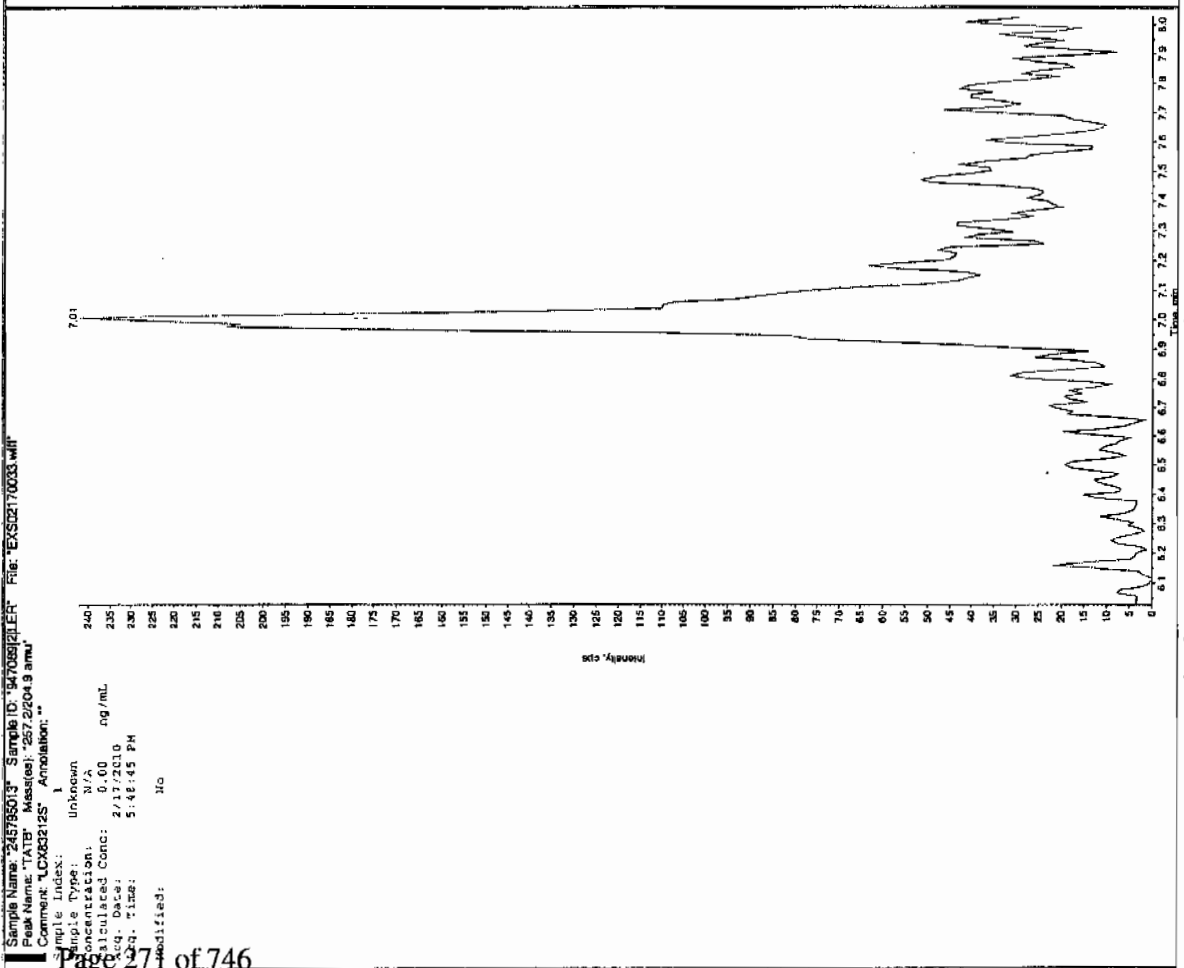
*Concentration =

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

for 2/19/10

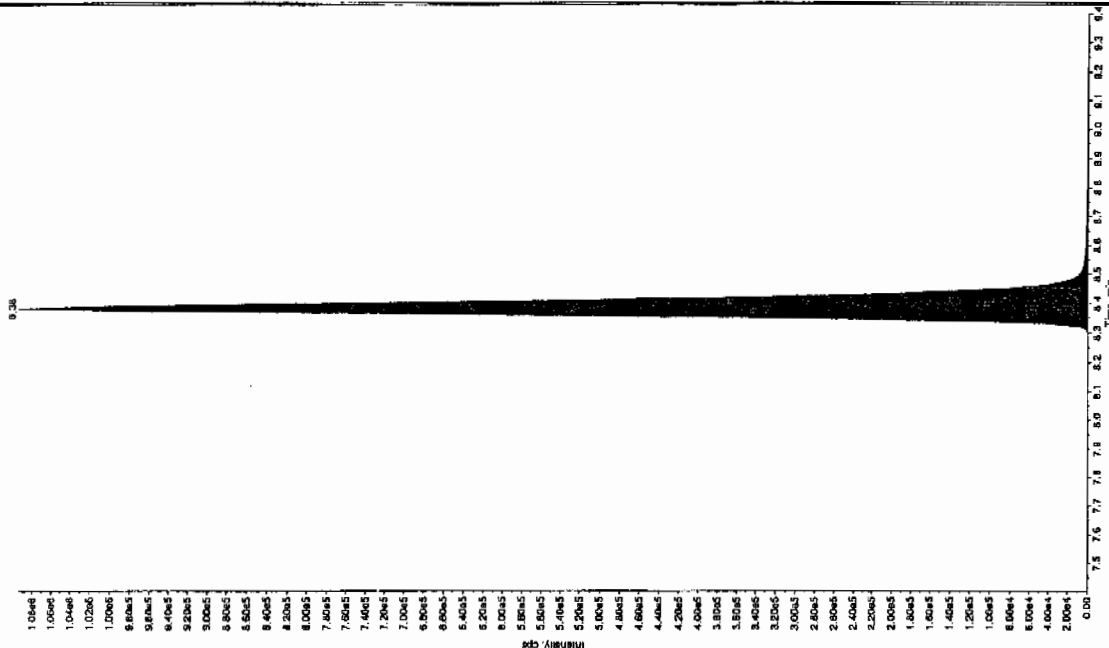


for 2/19/10



Sample Name: "245755013" Sample ID: "94708921ER" File: "EXS02170033.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "185.046.0 amu"
 Comment: "LCX532125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Diluted Conc: 2/17/2010 ng/mL
 Acq. Date: 5:13:45 PM
 Acq. Time: 5:13:45 PM
 Modified: No

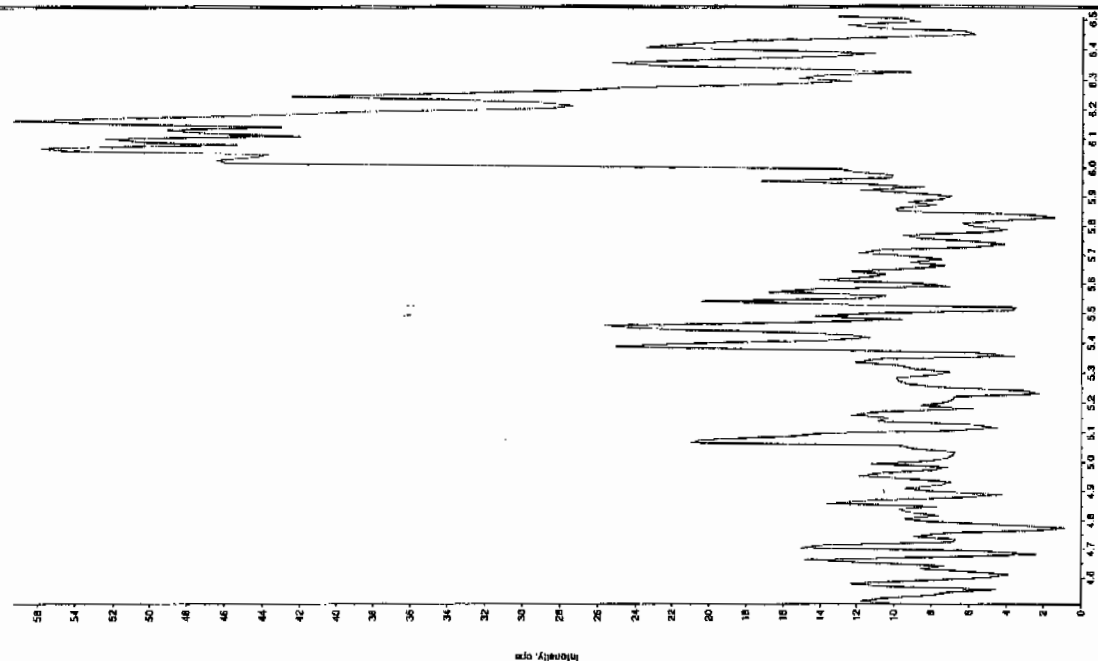


Sample Name: "245755013" Sample ID: "94708921ER" File: "EXS02170033.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX532125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Diluted Conc: 2/17/2010 ng/mL
 Acq. Date: 5:13:45 PM
 Acq. Time: 5:13:45 PM
 Modified: No
 Method: No
 Algorithm: IntraLiquan - ICS
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 5.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 3.96 min
 Area: 3.96e+006 counts
 Height: 1094556.914 cps
 Start Time: 3.21 min
 End Time: 4.39 min

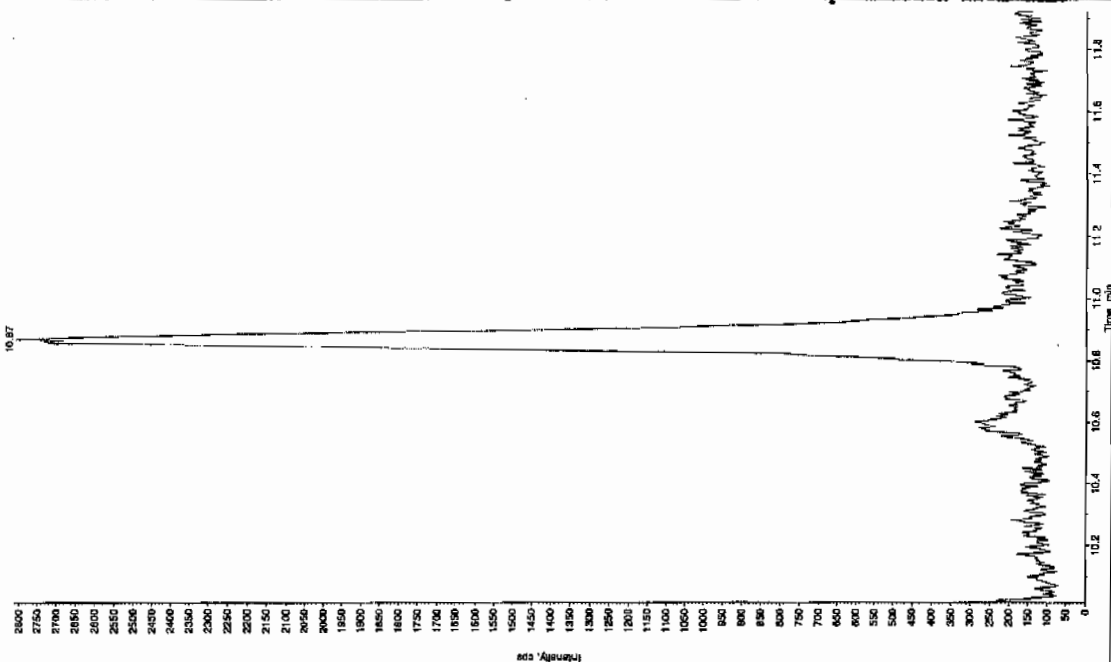
Sample Name: "245795013" Sample ID: "94708921LFR" File: "EX502170033.will"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:48:45 PM
 Modified: No



Sample Name: "245795013" Sample ID: "94708921LFR" File: "EX502170033.will"
 Peak Name: "bis(o-cresyl) phosphatase" Mass(es): "385.181.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:48:45 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216200a

Date Analyzed: 20-FEB-10 19:48

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 41 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216200a

Date: 20-Feb-2010

Time: 19:48:48

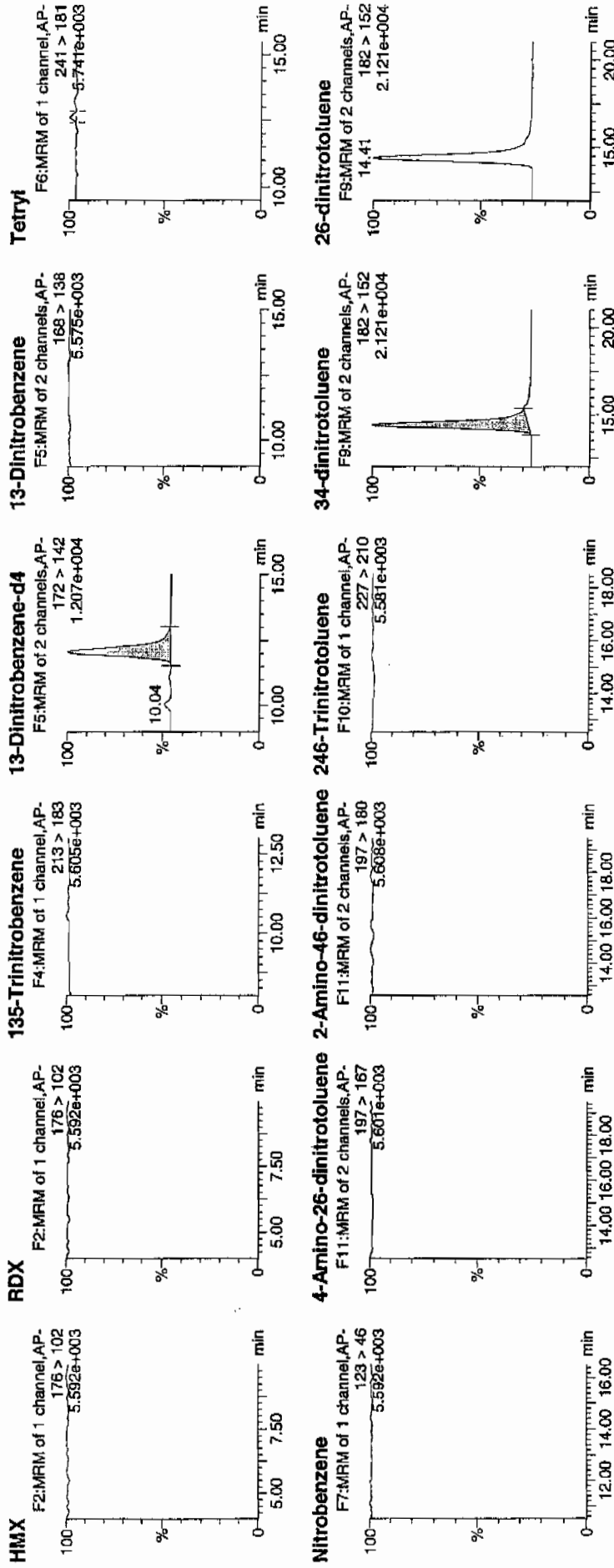
ID: 245795014

Vial: 4:5,F

1477
2/21/10

LAU 947089 / 21 / 200a

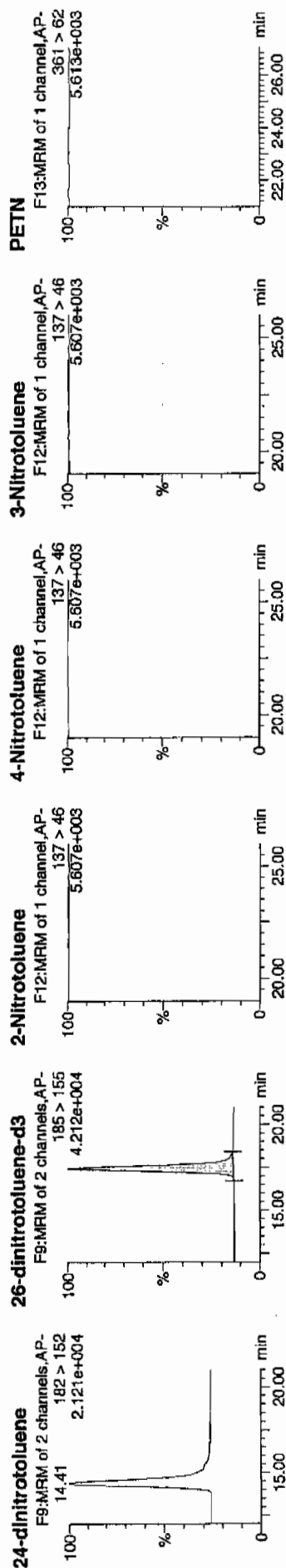
Page 275 of 746



Handwritten signature/initials

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Flags	Mod:Date	Mod:Time	Conc:mg/ml	%Rec	Lab:Dev	S/N
245795014	HMX	176 > 102		2696.045									
245795014	RDX	176 > 102		2696.045									
245795014	135-Trinitrobenzene	213 > 183		2696.045									
245795014	13-Dinitrobenzene-d4	172 > 142	12.06	2696.045		2696.045	bb			447.4888	89.5	-10.5	574.5
245795014	13-Dinitrobenzene	168 > 138		2696.045									
245795014	Tetryl	241 > 181		2696.045									
245795014	Nitrobenzene	123 > 46		2696.045									
245795014	4-Amino-26-dinitrotoluene	197 > 167		14578.744									
245795014	2-Amino-46-dinitrotoluene	197 > 180		14578.744									
245795014	246-Trinitrotoluene	227 > 210		14578.744									
245795014	34-dinitrotoluene	182 > 152	14.41	7283.888	14578.744	249.812	bb			275.7303	110.3	10.3	355.9
245795014	26-dinitrotoluene	182 > 152		14578.744									
245795014	24-dinitrotoluene	182 > 152		14578.744									
245795014	26-dinitrotoluene-d3	185 > 155	17.43	14578.744		14578.744	bb			418.7235	83.7	-16.3	1697.8
245795014	2-Nitrotoluene	137 > 46		14578.744									
245795014	4-Nitrotoluene	137 > 46		14578.744									
245795014	3-Nitrotoluene	137 > 46		14578.744									
245795014	PETN	361 > 62		14578.744									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7941

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795014

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170034.wiff

Date Analyzed: 17-FEB-10 18:04

Units: ug/kg

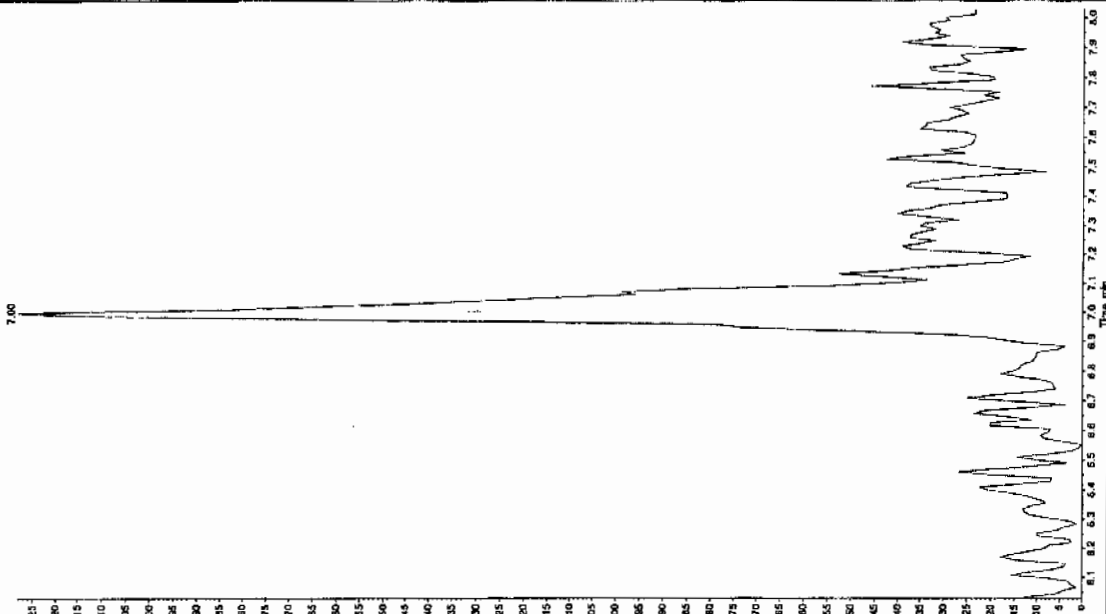
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

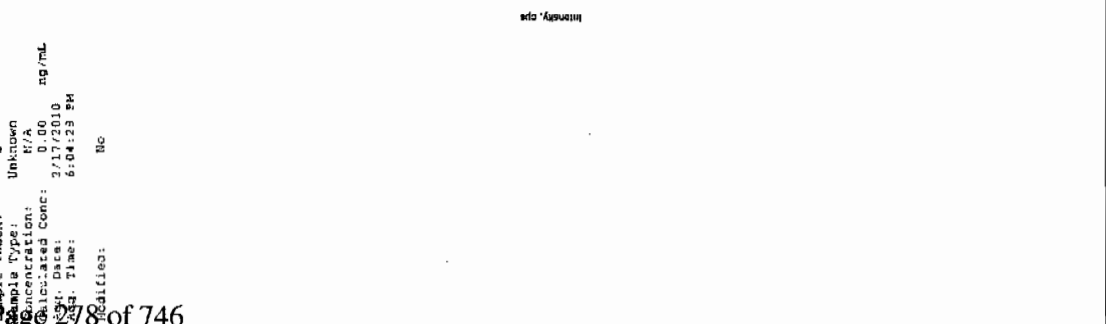
Sample Name: "245795014" Sample ID: "94706321ER" File: "EXS02170034.wif"
 Peak Name: "35-Dinitroanthracene" Mass(es): "162.045.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:04:29 PM
 Acq. Time: 6:04:29 PM
 Modified: No



Sample Name: "245795014" Sample ID: "94706321ER" File: "EXS02170034.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:04:29 PM
 Acq. Time: 6:04:29 PM
 Modified: No



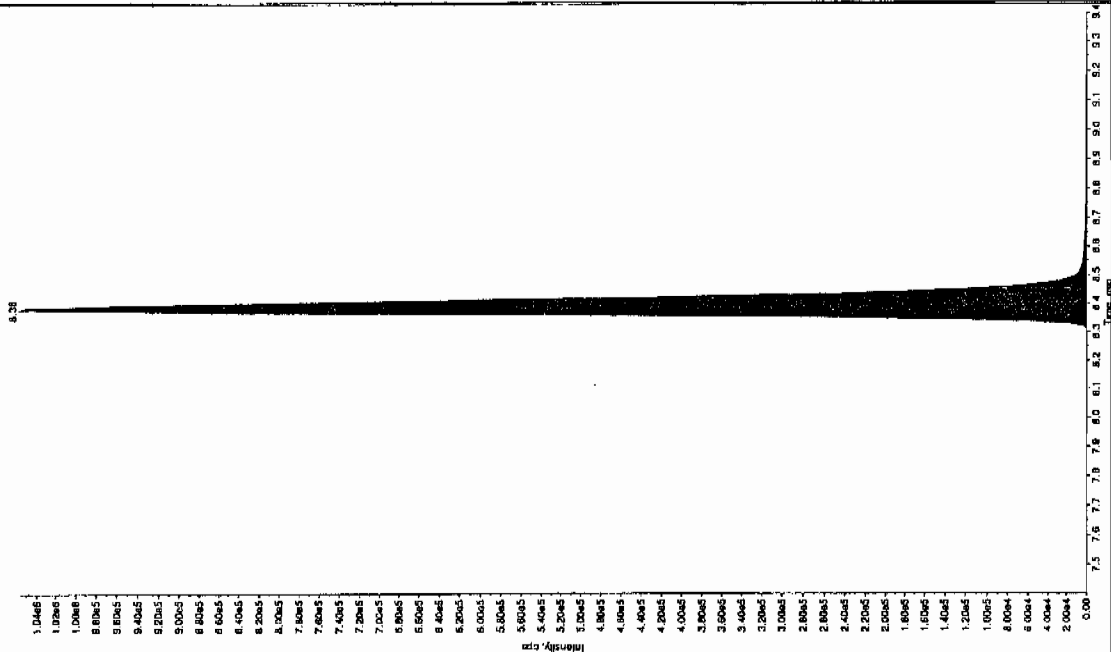
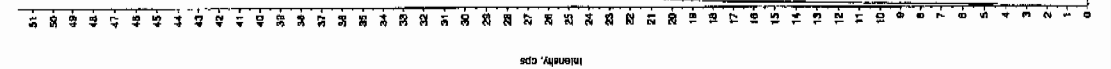
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

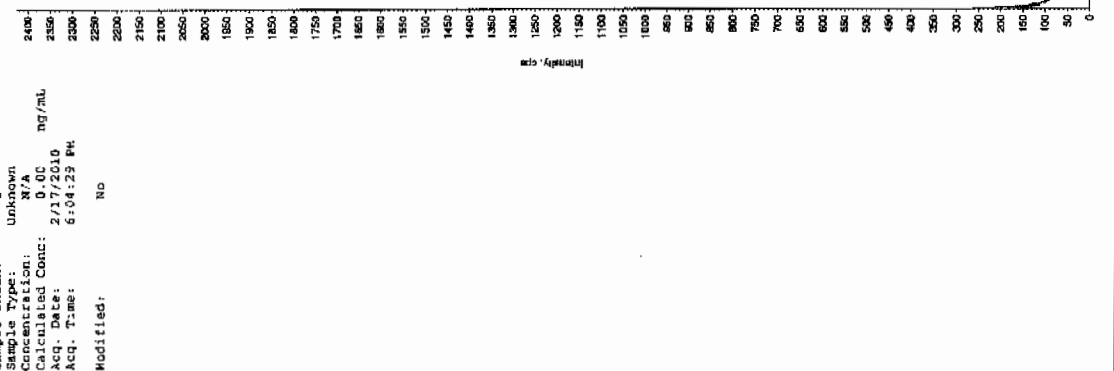
Jan 21/19/10

Jan 02/19/10

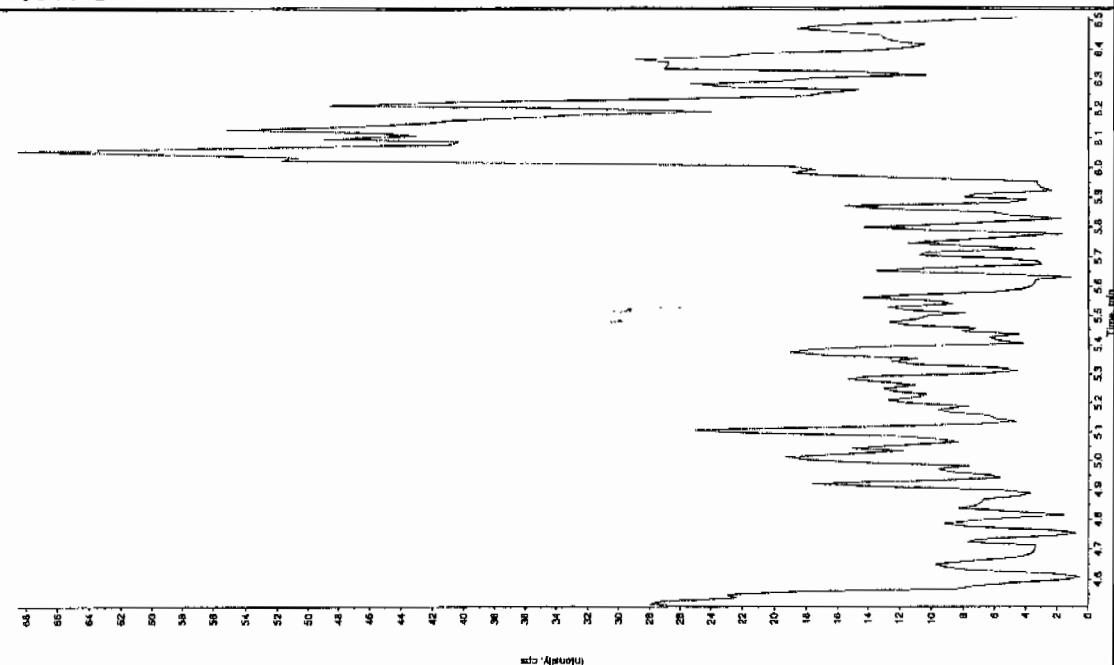
Sample Name: "245795014" Sample ID: "94708921ER" File: "EX502170034.WHT"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "EX63212S" Annotation: ""

Sample Index:	1	ng/mL
Sample type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	
Acq. Date:	2/17/2010	
Acq. Time:	6:00:25 PM	
Modified:	OK	

[illegible]



Sample Name: "245795014" Sample ID: "94708921ER" File: "EXS02170034.will"
Peak Name: "24-Diamino-6-nitrocluvane" Mass(es): "166.046.0 amu"



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216201a

Date Analyzed: 20-FEB-10 20:18

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 43 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\data\EXP0216201a

Date: 20-Feb-2010

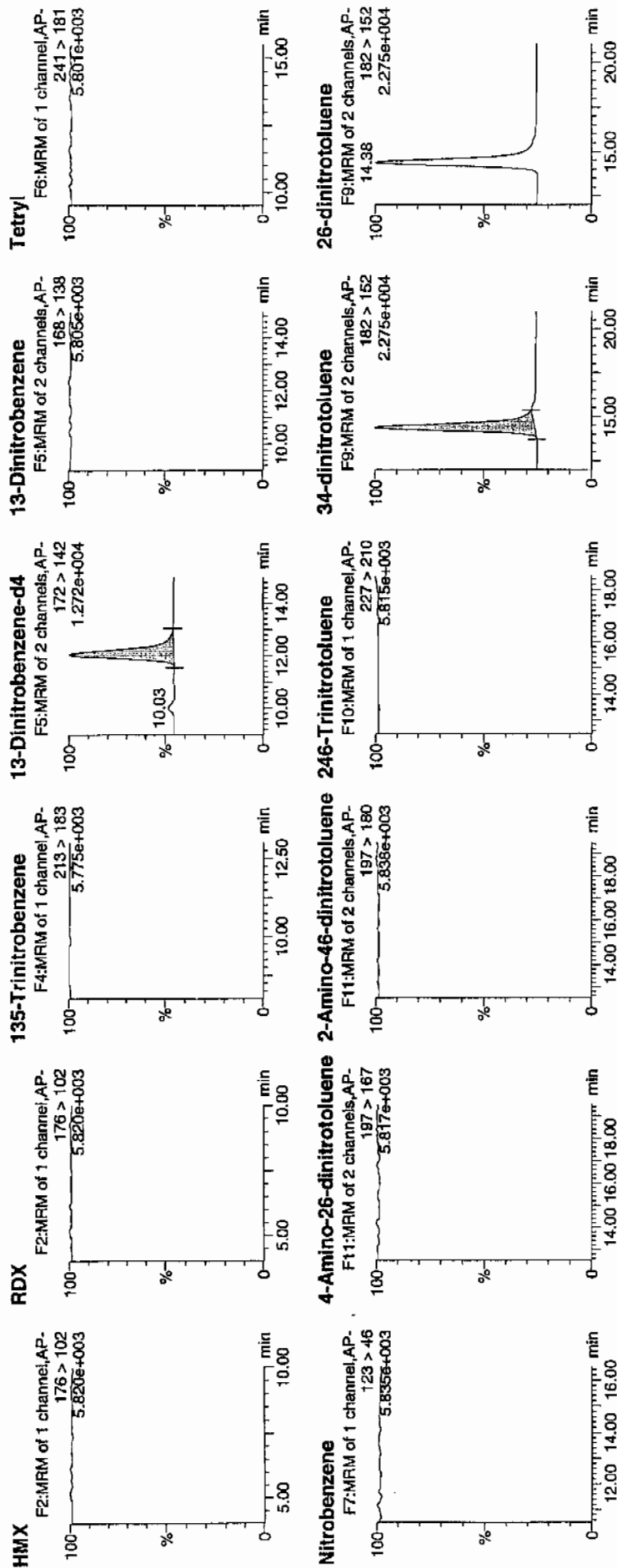
Time: 20:18:17

ID: 245795015

Vial: 4-6,A

100%
2/2/10

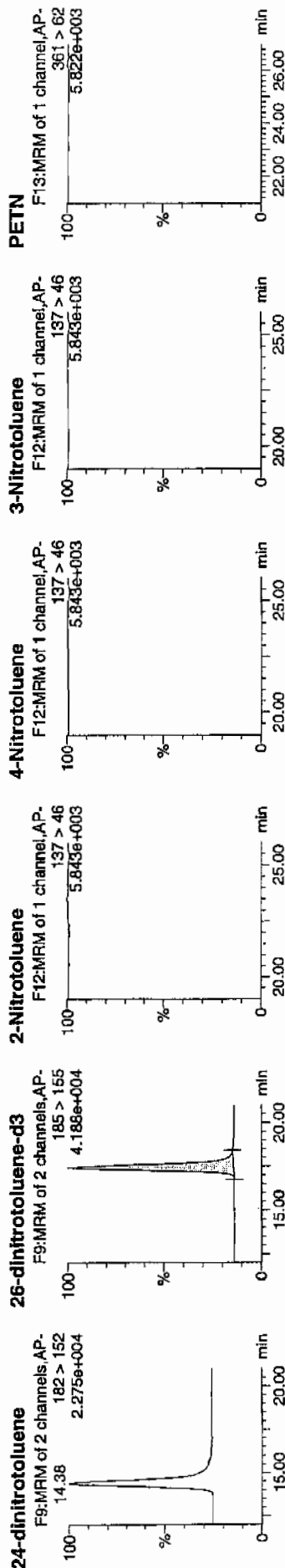
1947089 | 21



Amr 2/22/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Time	% Rec	% Dev	SN
245795015	HMX		176 > 102		2824.845							
245795015	RDX		176 > 102		2824.845							
245795015	135-Trinitrobenzene		213 > 183		2824.845							
245795015	13-Dinitrobenzene-d4		172 > 142	12.07	2824.845		2824.845	bb	468.8670	93.8	-6.2	384.8
245795015	13-Dinitrobenzene		168 > 138		2824.845							
245795015	Tetryl		241 > 181		2824.845							
245795015	Nitrobenzene		123 > 46		2824.845							
245795015	4-Amino-26-dinitrotoluene		197 > 167		14483.329							
245795015	2-Amino-46-dinitrotoluene		197 > 180		14483.329							
245795015	246-Trinitrotoluene		227 > 210		14483.329							
245795015	34-dinitrotoluene		182 > 152	14.38	7900.567		7900.567	bb	301.0448	120.4	20.4	655.7
245795015	26-dinitrotoluene		182 > 152		14483.329							
245795015	24-dinitrotoluene		182 > 152		14483.329							
245795015	26-dinitrotoluene-d3		185 > 155	17.42	14483.329		14483.329	bb	415.9831	83.2	-16.8	1726.0
245795015	2-Nitrotoluene		137 > 46		14483.329							
245795015	4-Nitrotoluene		137 > 46		14483.329							
245795015	3-Nitrotoluene		137 > 46		14483.329							
245795015	PETN		361 > 62		14483.329							

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7949

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795015

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170035.wiff

Date Analyzed: 17-FEB-10 18:20

Units: ug/kg

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

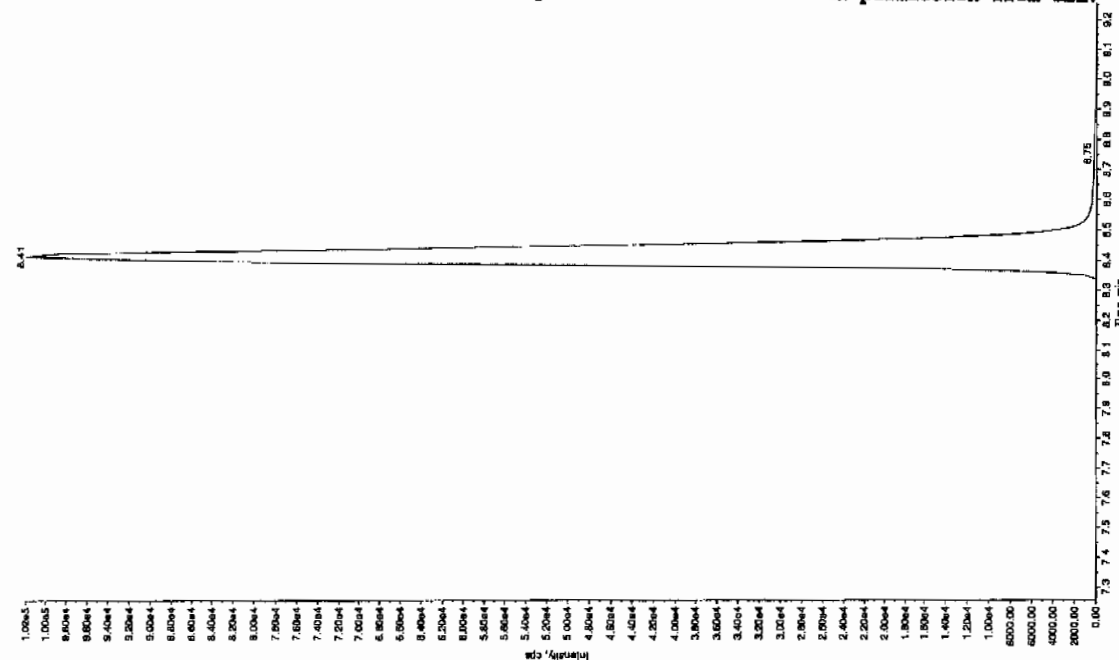
*Concentration =

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

Jan 21/19/10

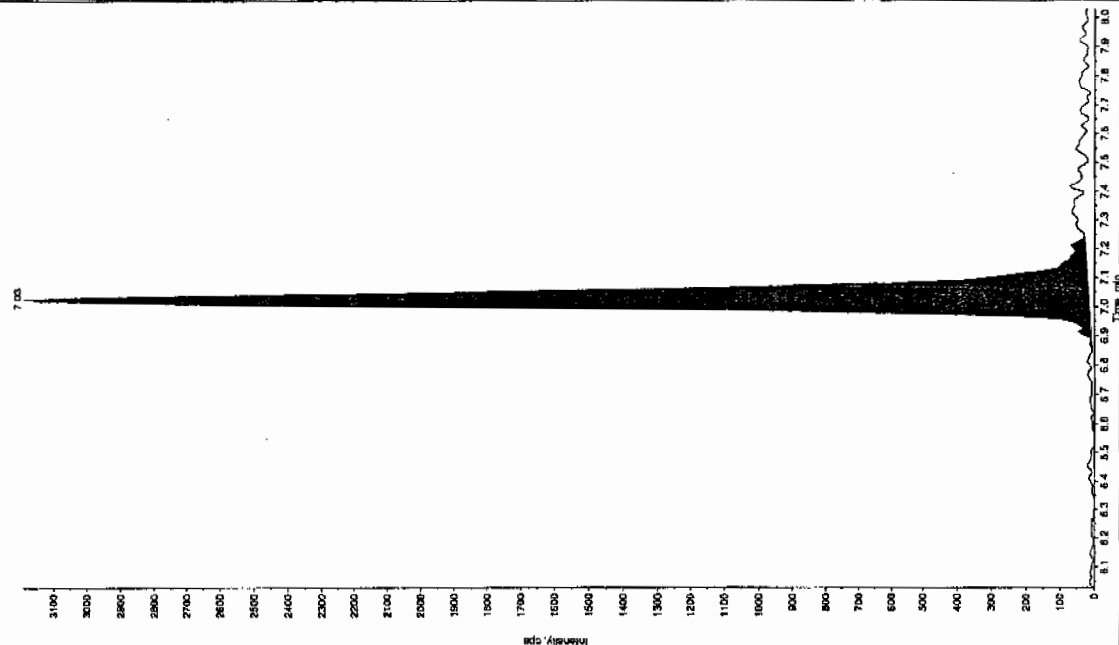
Sample Name: 24579015 Sample ID: 947089/ALIF File: EXS02170035.wif
 Peak Name: 17.031 Mass(es): 162.046.0 amu
 Comment: LCX83212S Amulation

Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:20:12 PM
 Acq. Time: 6:20:12 PM
 Modified: No



Sample Name: 24579015 Sample ID: 947089/ALIF File: EXS02170035.wif
 Peak Name: 17.031 Mass(es): 257.2004.9 amu
 Comment: LCX83212S Amulation

Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:20:12 PM
 Acq. Time: 6:20:12 PM
 Modified: No

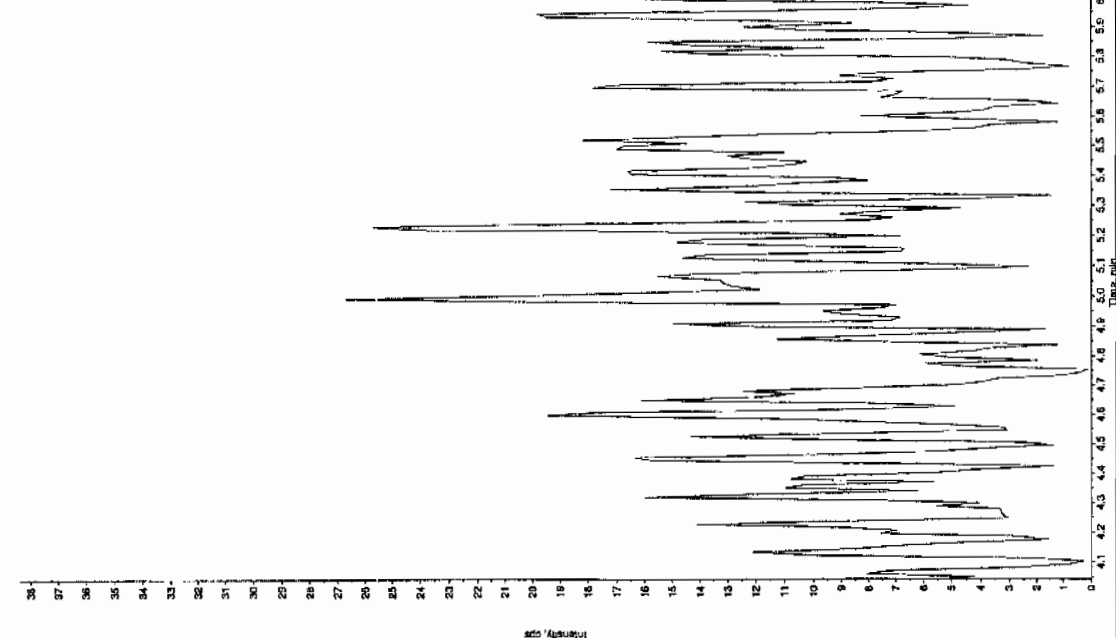


Calculated: No
 Int. Type: Valley
 Retention Time: 7.03 min
 Area: 1.37e+004 counts
 Height: 3177.605 cps
 Start Time: 6.85 min
 End Time: 7.24 min
 Int. Type: Valley
 Retention Time: 7.03 min
 Area: 1.37e+004 counts
 Height: 3177.605 cps
 Start Time: 6.85 min
 End Time: 7.24 min

Jan 22/19/10

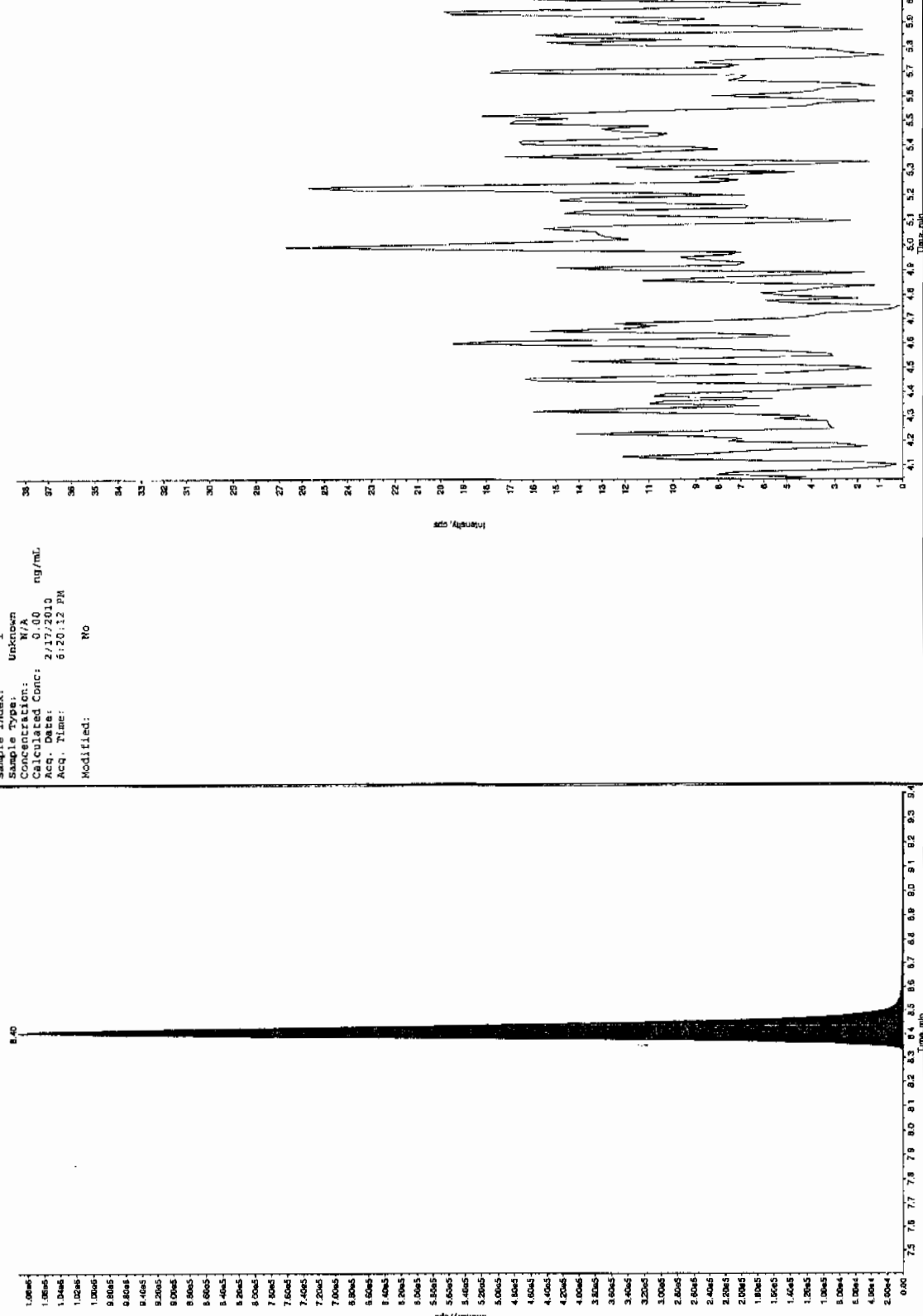
Sample Name: "24575015" Sample ID: "94700921ER" File: "EX832170035.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "166.0460 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:20:12 PM
 Modified: No



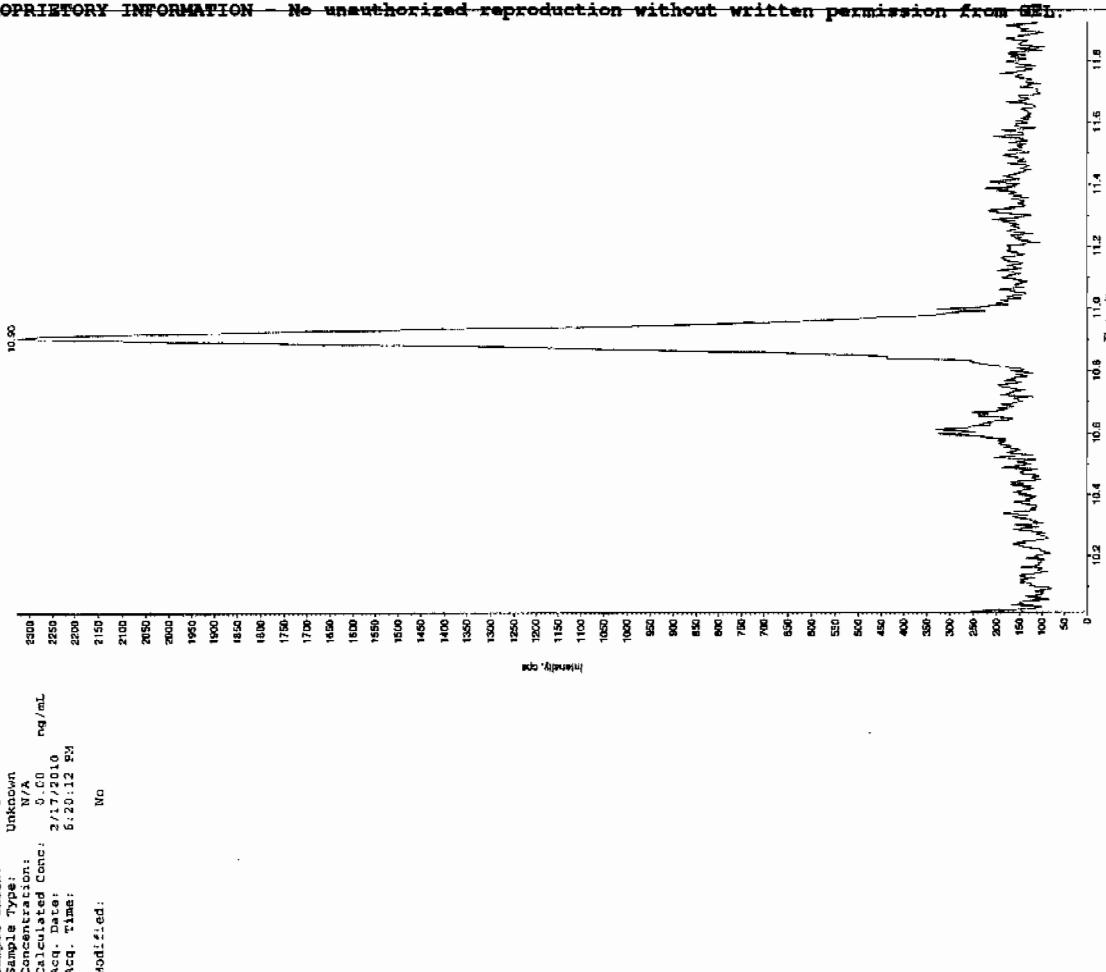
Sample Name: "24575015" Sample ID: "94700921ER" File: "EX832170035.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "166.0460 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:20:12 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - 10A
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.20 sec
 Smoothing Width: 5 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.40 min
 Area: 4.10e+06 counts
 Height: 1092798.828 cps
 Start Time: 8.29 min
 End Time: 8.82 min



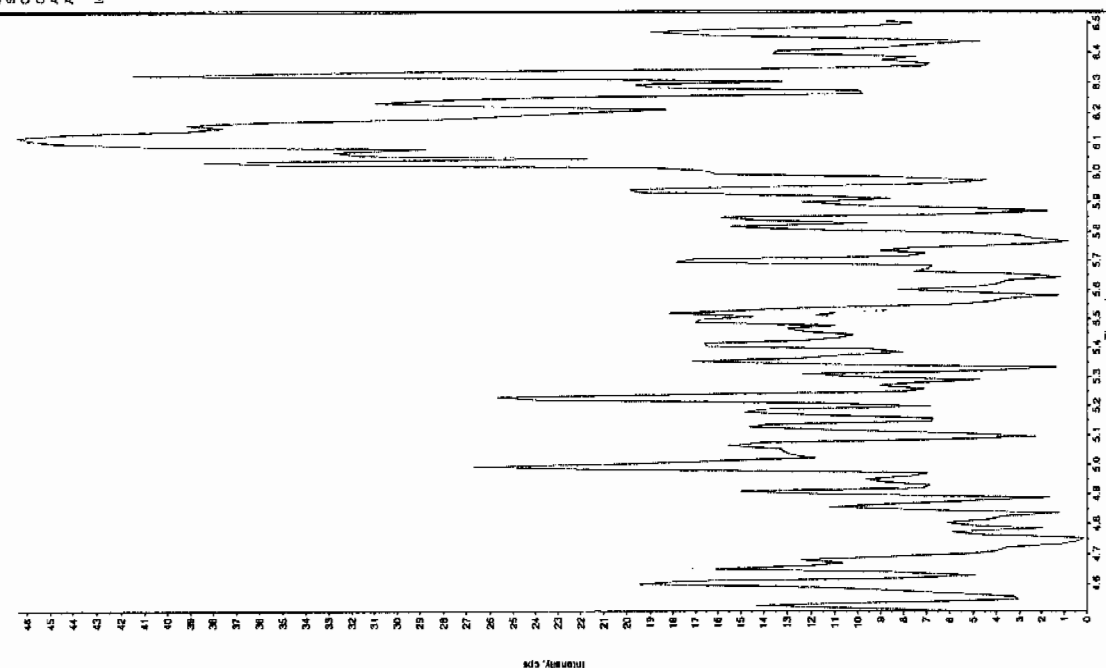
Sample Name: "245795015" Sample ID: "94708921ER" File: "EXS02170035.wif"
 Peak Name: "is(o-cresyl) phosphate" Mass(es): "389.1/31.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 2.17/20.0
 Acq. Date: 6/20/12 PM
 Acq. Time: 6:20:12 PM
 Modified: No



Sample Name: "245795015" Sample ID: "94708921ER" File: "EXS02170035.wif"
 Peak Name: "24-Damino-6-nitrotoluene" Mass(es): "169.0/46.0 amu"
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 2.17/20.0
 Acq. Date: 6/20/12 PM
 Acq. Time: 6:20:12 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216202a

Date Analyzed: 20-FEB-10 20:48

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 45 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216202a

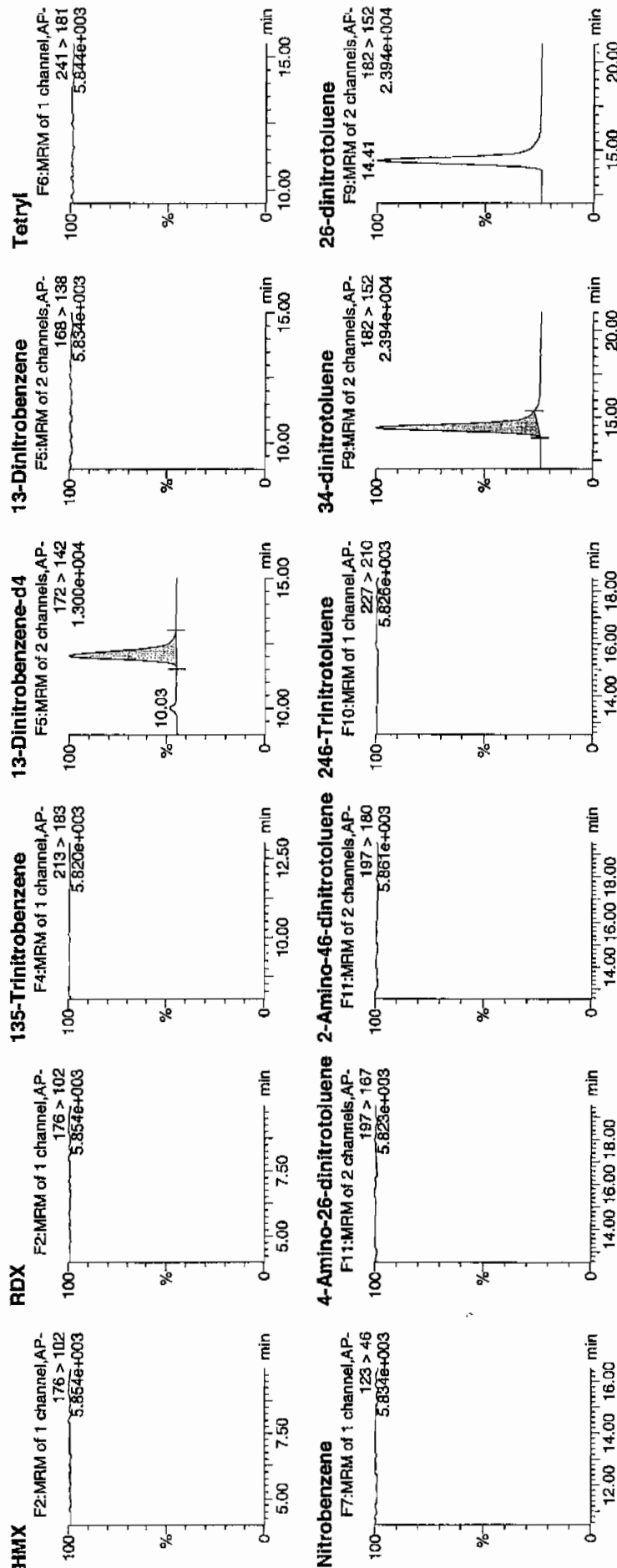
Date: 20-Feb-2010

Time: 20:48:03

ID: 245795016

Vial: 4:6.B

1077
2/21/10
Vial 947089 / Solu / 21

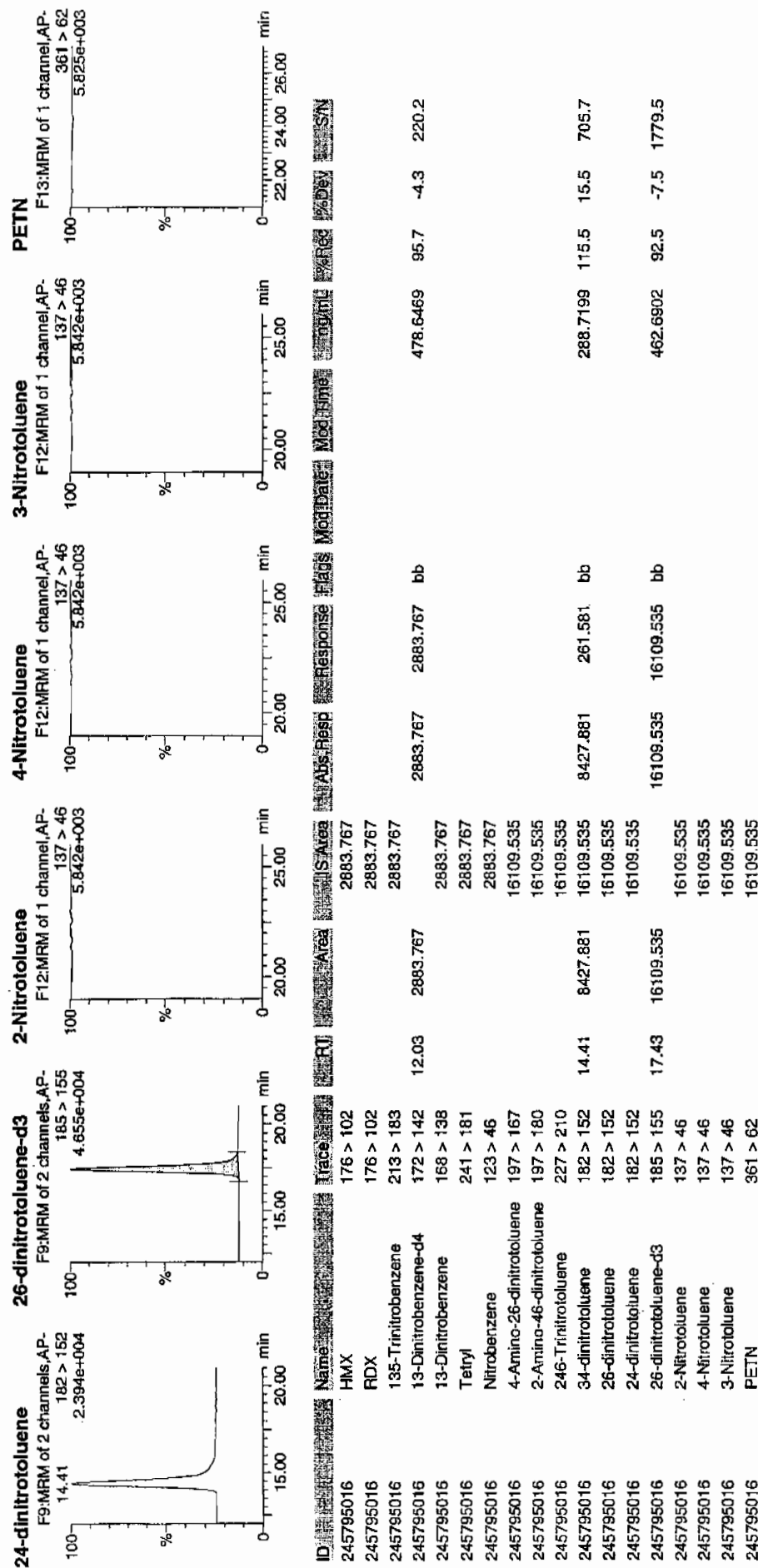


Handwritten signature and date: 02/22/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7946

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795016

Sample Amount 2

Moisture: ****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170036.wiff

Date Analyzed: 17-FEB-10 18:35

Units: ug/kg

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

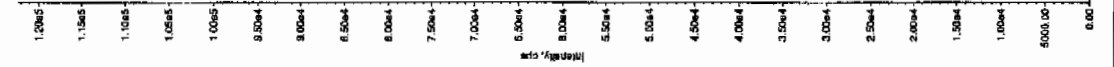
*Concentration =

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

for 2/19/10

Sample Name: "24575016" Sample ID: "94703921EF" File: "EXS02170035.will"
 Peak Name: "35-Diethylamine" Mass(es): "102.046.0 amu"
 Comment: "LCX832125" Annotation: ""

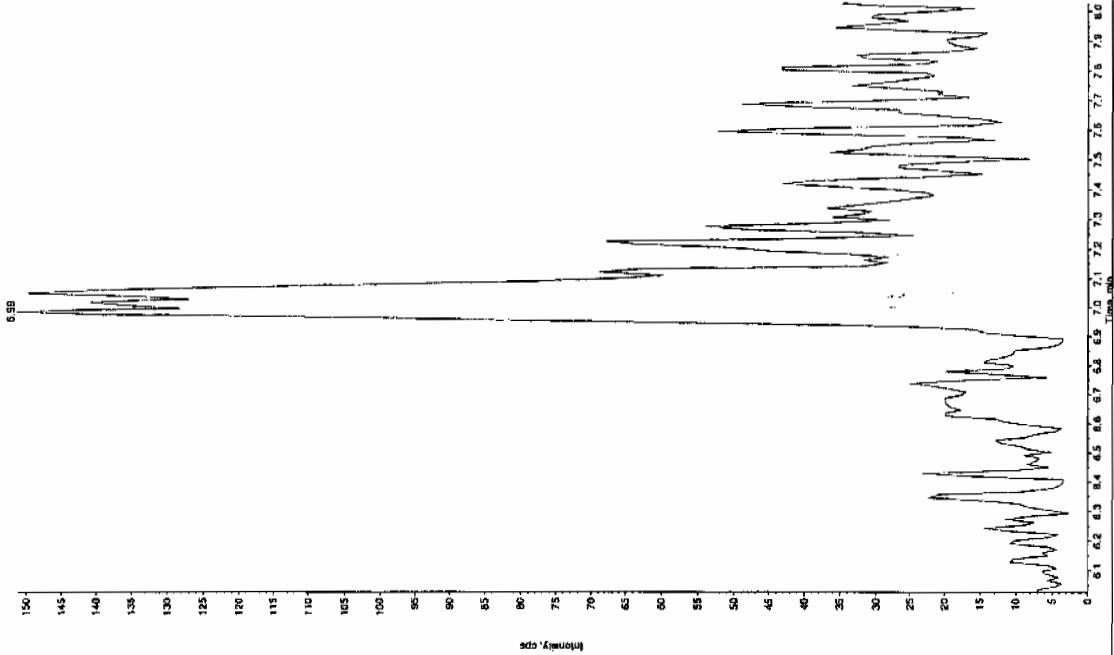
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:35:54 PM
 Modified: No



for 2/19/10

Sample Name: "24575016" Sample ID: "94703921EF" File: "EXS02170035.will"
 Peak Name: "TATS" 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: 2/17/2010
 Acq. Time: 6:35:54 PM
 Modified: No



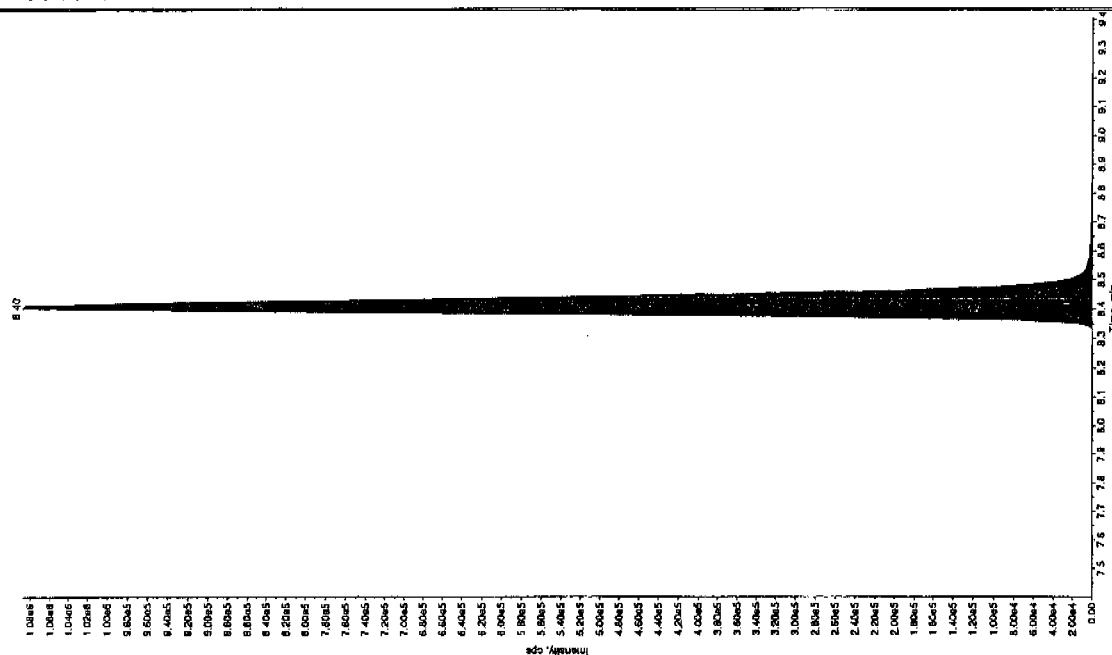
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: 245795016 Sample ID: 947089215 File: EX502170036.wif

Peak Name: 34-Dichlorobenzene Mass(es): 186.0460 amu

Comment: LC832125 Annotation: 1

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:35:54 PM
 Modified: No



Sample Name: 245795016 Sample ID: 947089215 File: EX502170036.wif

Peak Name: 34-Dichlorobenzene Mass(es): 186.0460 amu

Comment: LC832125 Annotation: 1

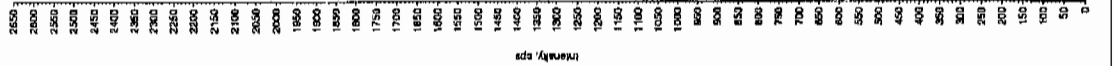
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:35:54 PM
 Modified: No
 Proc. Algorithm: Intelligent - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Ret. Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Inc. Type: Valley
 Retention Time: 8.40 min
 Resolution: 4.28e+006 counts
 Height: 1037769.409 cps
 Start Time: 8.30 min
 End Time: 8.79 min

Sample Name: 245795016 Sample ID: 94706921LRF File: EX502170036.wif

Peak Name: bis(4-oxo-2-oxo-1,2,3,4-tetrahydro-2H-pyridin-2-yl) phosphite Mass(es): 389.181.0 amu

Comment: LCX832125 Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 6:35:54 PM
 Modified: No

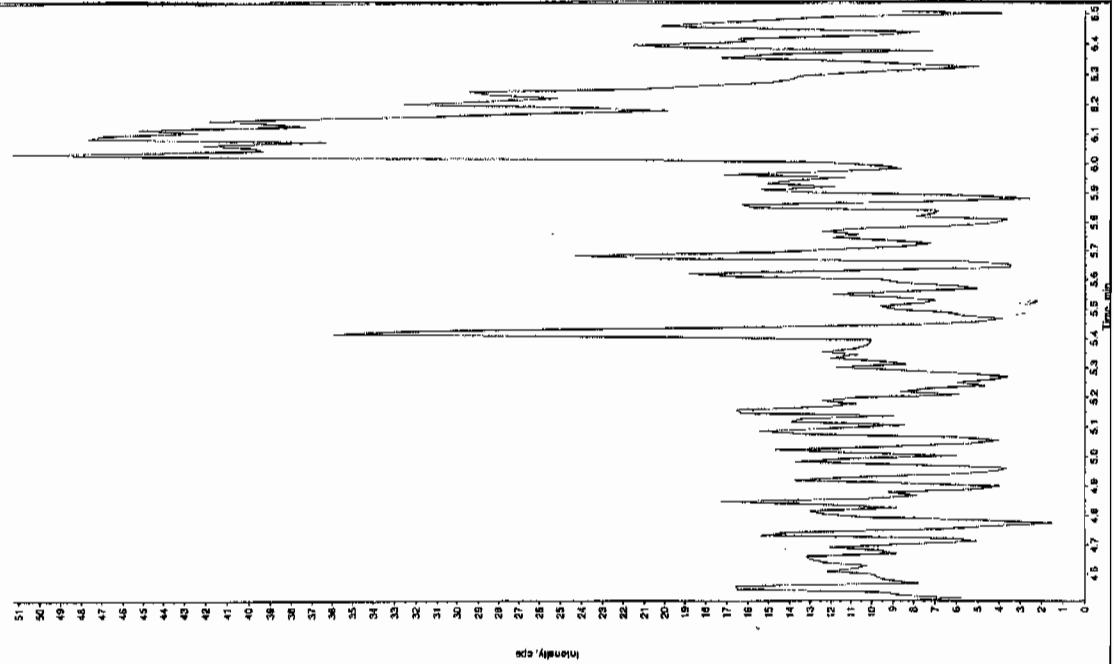


Sample Name: 245795016 Sample ID: 94706921LRF File: EX502170036.wif

Peak Name: 24-Diamine-6-nitrocholine 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: 2/17/2010
 Acq. Time: 6:35:54 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: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216206a

Date Analyzed: 20-FEB-10 22:46

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 53 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216206a

Date: 20-Feb-2010

Time: 22:46:18

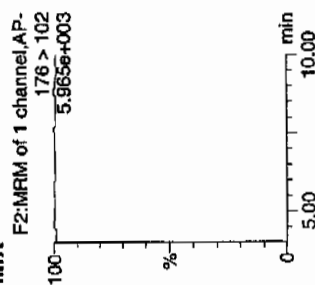
ID: 245795017

Vial: 4:6,C

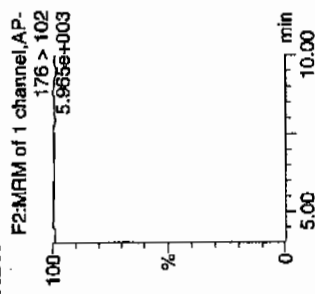
14077
2/21/10

LAUL 947089 / 5012 / 2 /

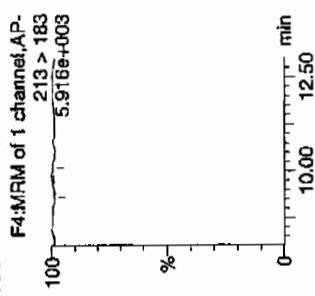
HMZ



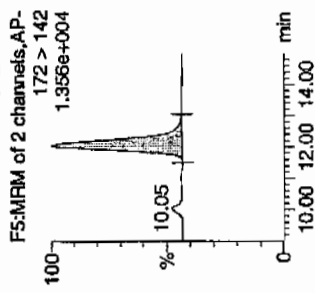
RDX



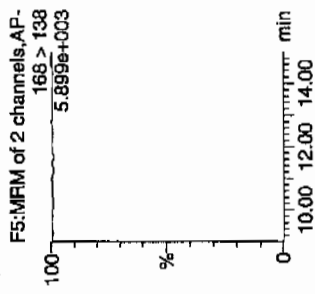
135-Trinitrobenzene



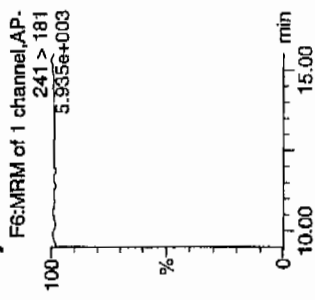
13-Dinitrobenzene-d4



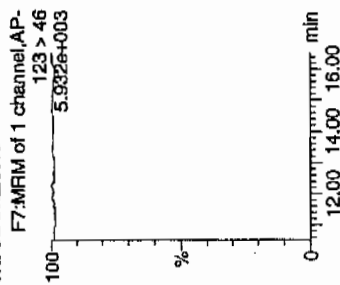
13-Dinitrobenzene



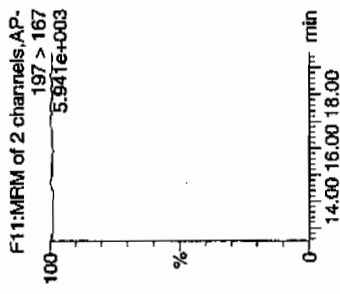
Tetryl



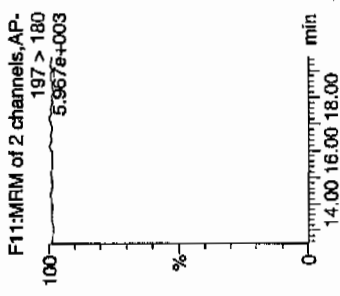
Nitrobenzene



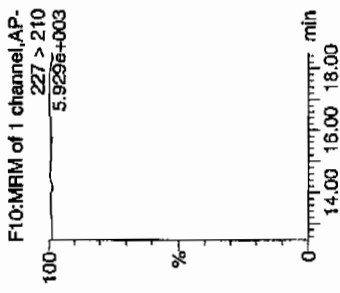
4-Amino-26-dinitrotoluene



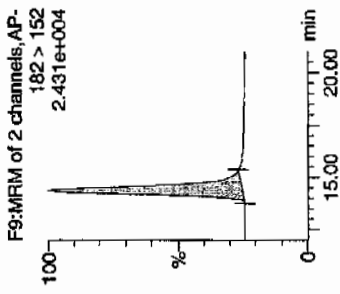
2-Amino-46-dinitrotoluene



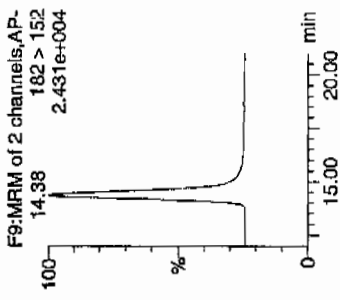
246-Trinitrotoluene



34-dinitrotoluene



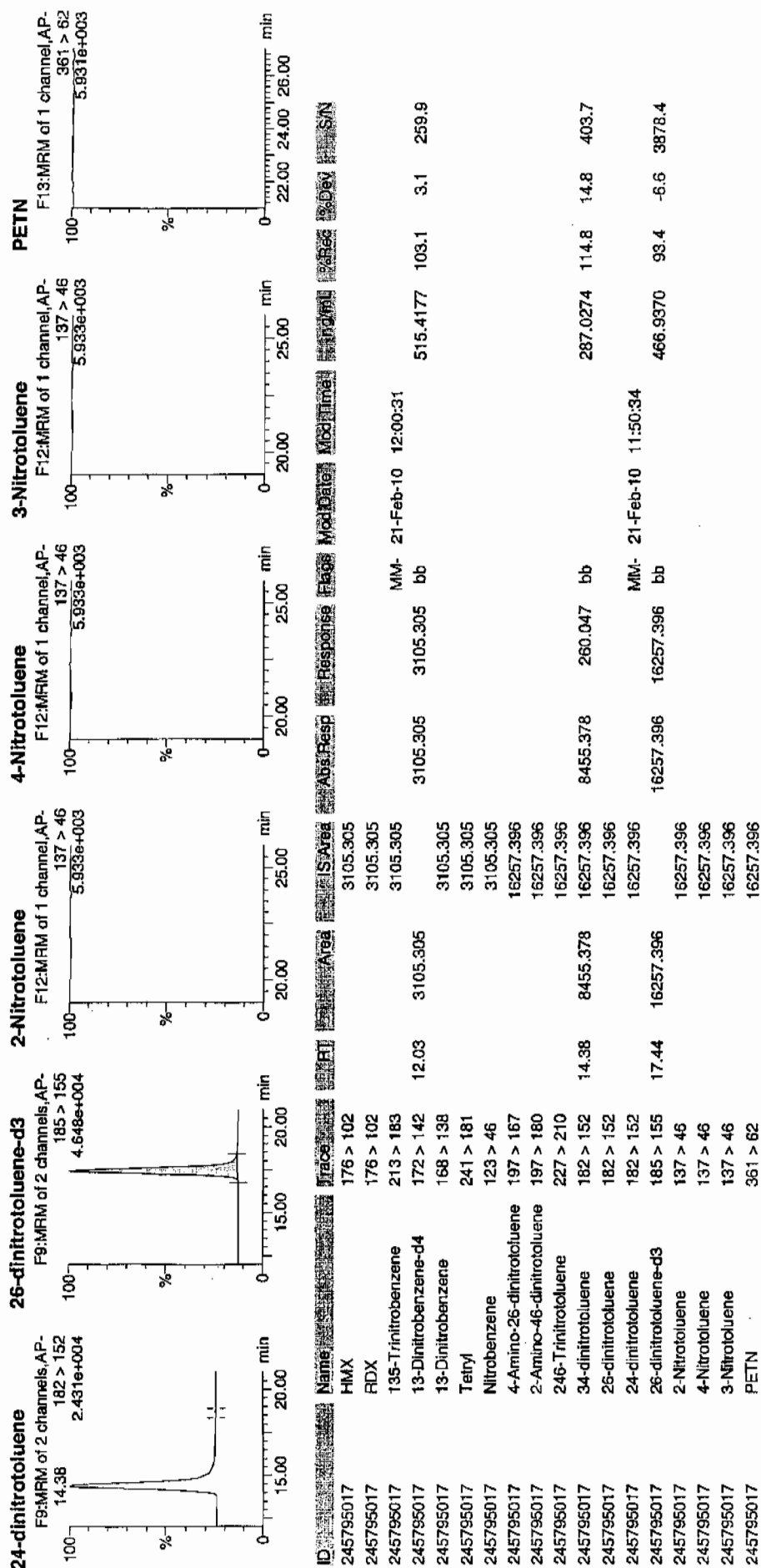
26-dinitrotoluene



done
2/21/10

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7942

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795017

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170040.wiff

Date Analyzed: 17-FEB-10 19:38

Units: ug/kg

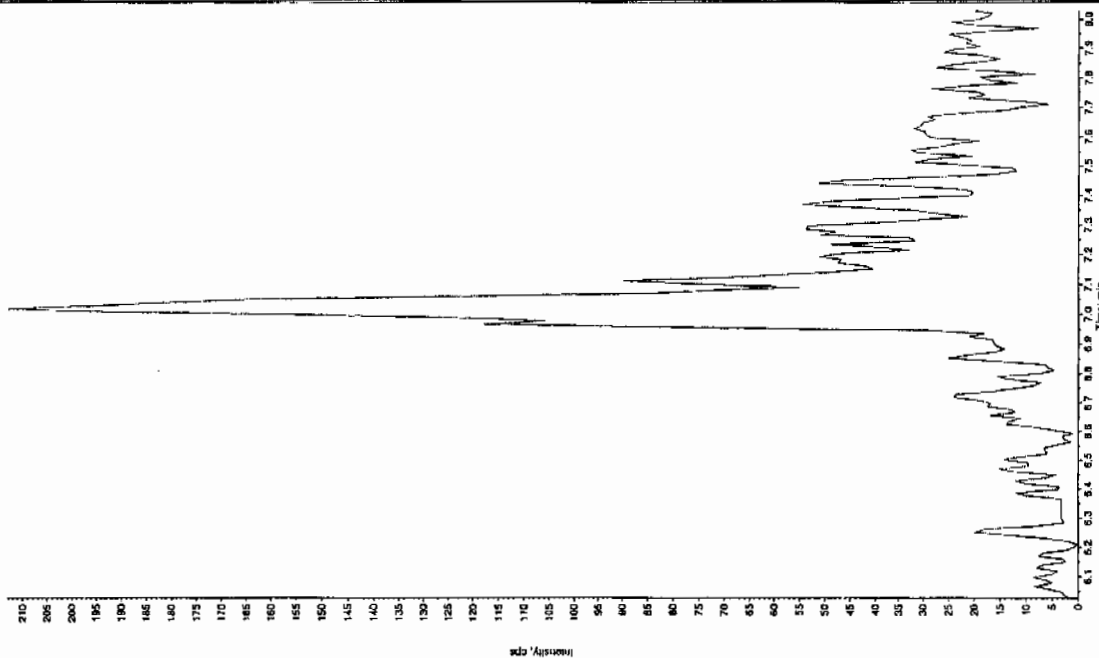
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

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

Sample Name: 245795017 Sample ID: 94708921.1ER File: EXS02170040.wif
Peak Name: 35-Dinitroaniline Mass(es): 182.0450 amu
Comment: LCX832125 Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 7:33:42 PM
Modified: No



Sample Name: 245795017 Sample ID: 94708921.1ER File: EXS02170040.wif
Peak Name: 35-Dinitroaniline Mass(es): 182.0450 amu
Comment: LCX832125 Annotation: "

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 7:33:42 PM
Modified: No

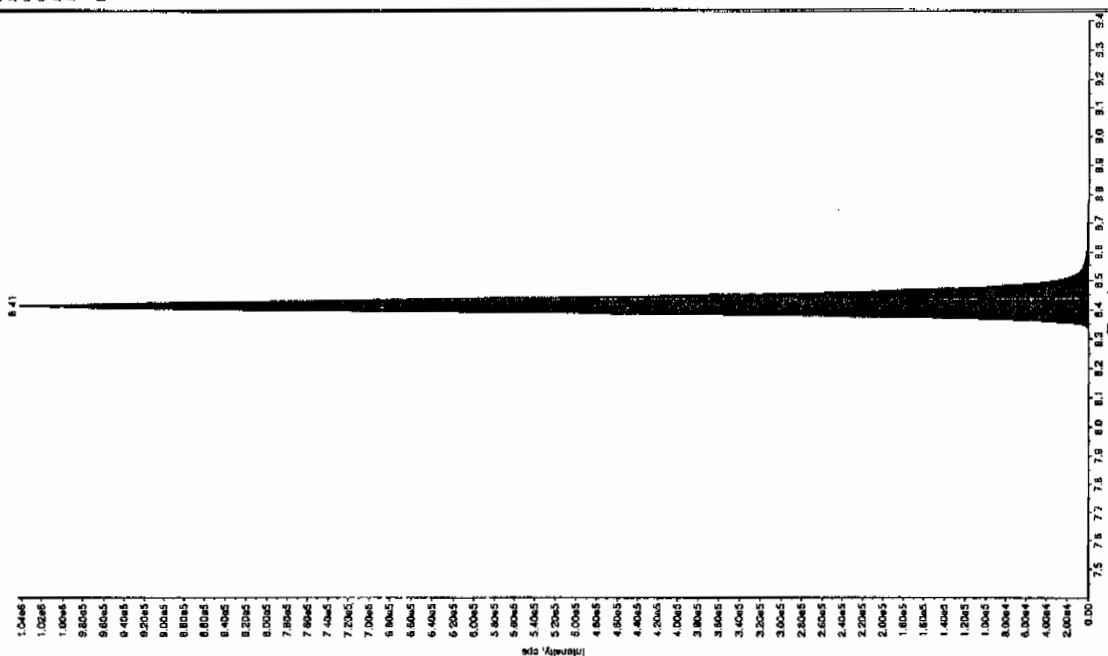
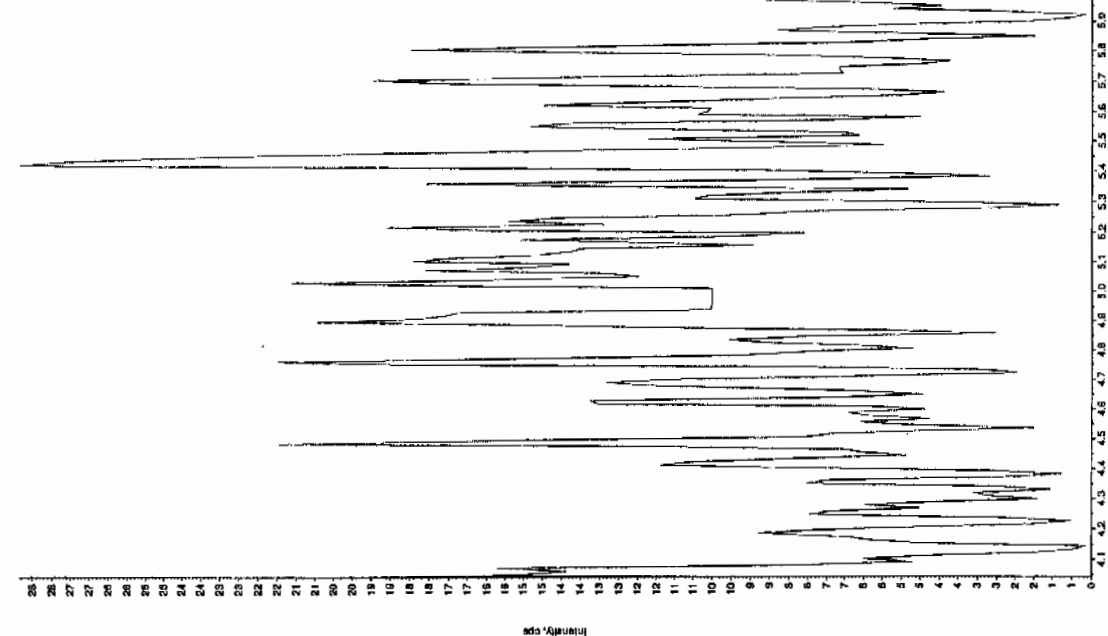
thru 02/19/10

Sample Name: "245785017" Sample ID: "9470882125" File: "EXS02170040.wif"
 Peak Name: "64-Diethyl-4-methylphenol" Mass(es): "166.046.0 amu"
 Comment: "LCMS32125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:38:42 PM
 Modified: No

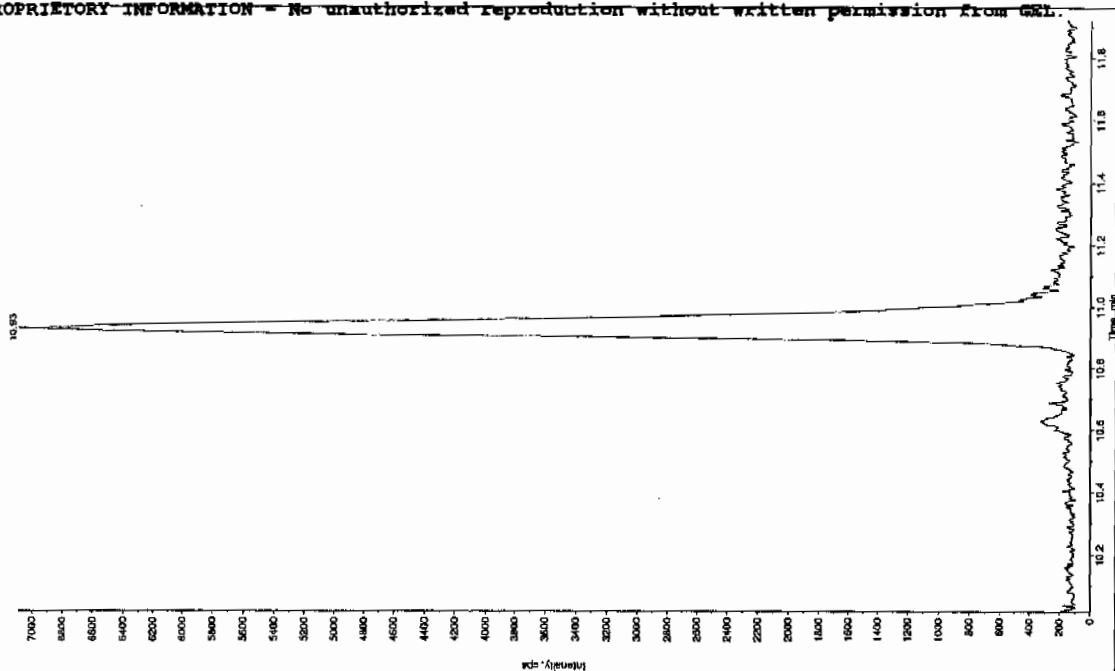
Sample Name: "245785017" Sample ID: "9470882125" File: "EXS02170040.wif"
 Peak Name: "64-Diethyl-4-methylphenol" Mass(es): "166.046.0 amu"
 Comment: "LCMS32125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 291. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:38:42 PM
 Modified: No
 Proc. Algorithm: Integrate - ION
 Min. Peak Width: 15.0 sec
 Max. Peak Width: 5.00 points
 Smoothing Width: 15.0 sec
 Window: 3.40 min
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.41 min
 Area: 3.58e+008 counts
 Height: 103733.511 cps
 Start Time: 8.31 min
 End Time: 8.51 min



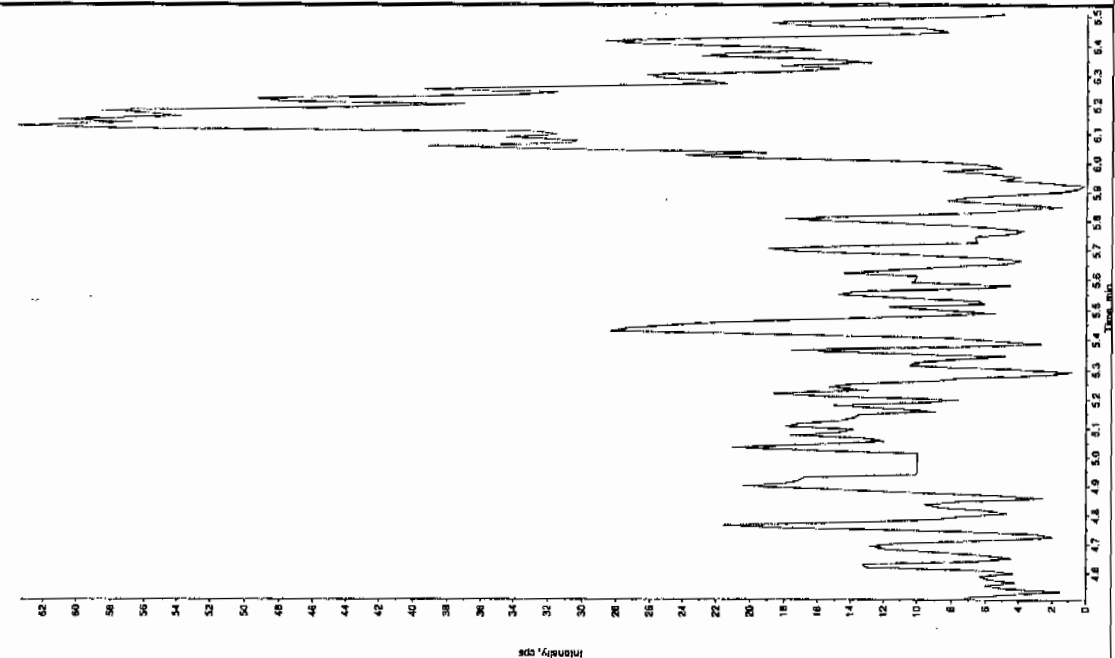
Sample Name: 245795017 Sample ID: 94708921ER File: EXS02170040.wif
 Peak Name: tri(n-octyl) phosphate Mass(es): 389.181.0 amu
 Comment: LCX83212S Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:38:42 PM
 Modified: No



Sample Name: 245795017 Sample ID: 94708921ER File: EXS02170040.wif
 Peak Name: 24-Diamino-6-nitrocoucine Mass(es): 166.046.0 amu
 Comment: LCX83212S Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 5.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:38:42 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: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216207a

Date Analyzed: 20-FEB-10 23:15

Units: ug/kg

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

*Concentration =

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

Printed: Sun Feb 21 12:01:24 2010, Page 55 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216207a

Date: 20-Feb-2010

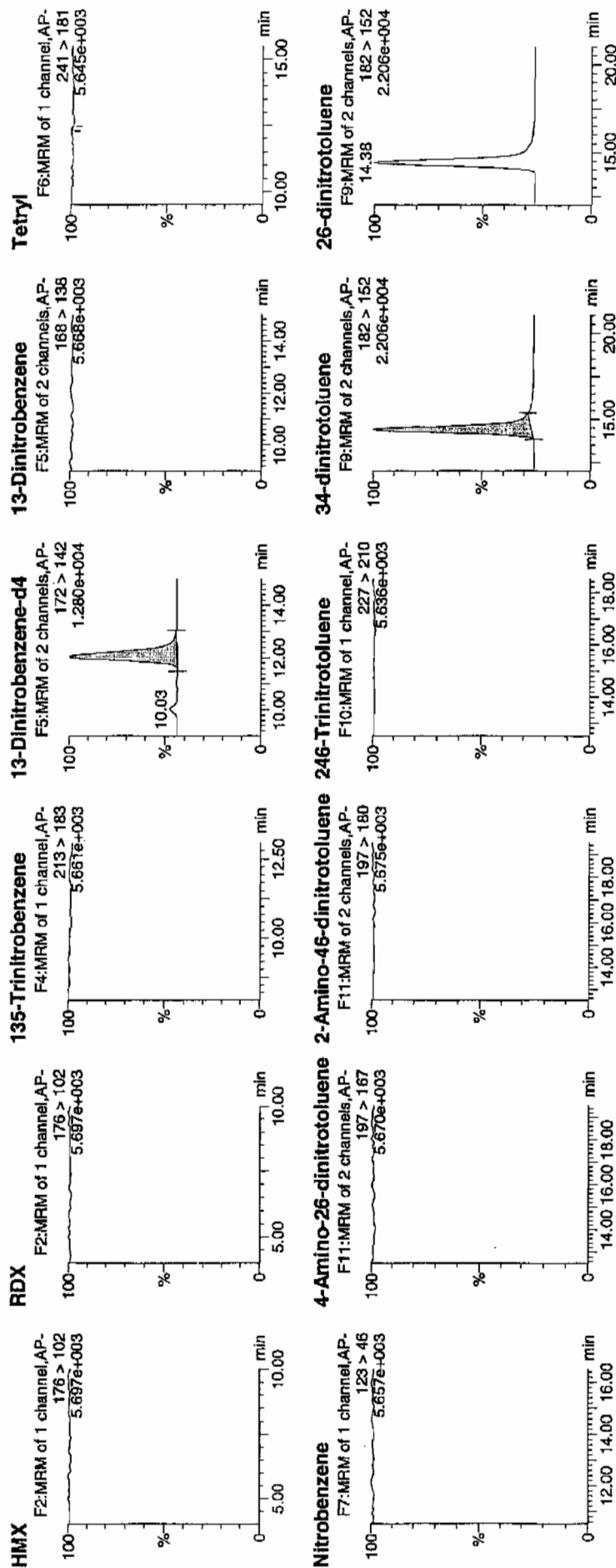
Time: 23:15:55

ID: 245795018

Vial: 4:6,D

11/21/10

1947089 / 10032 / 21

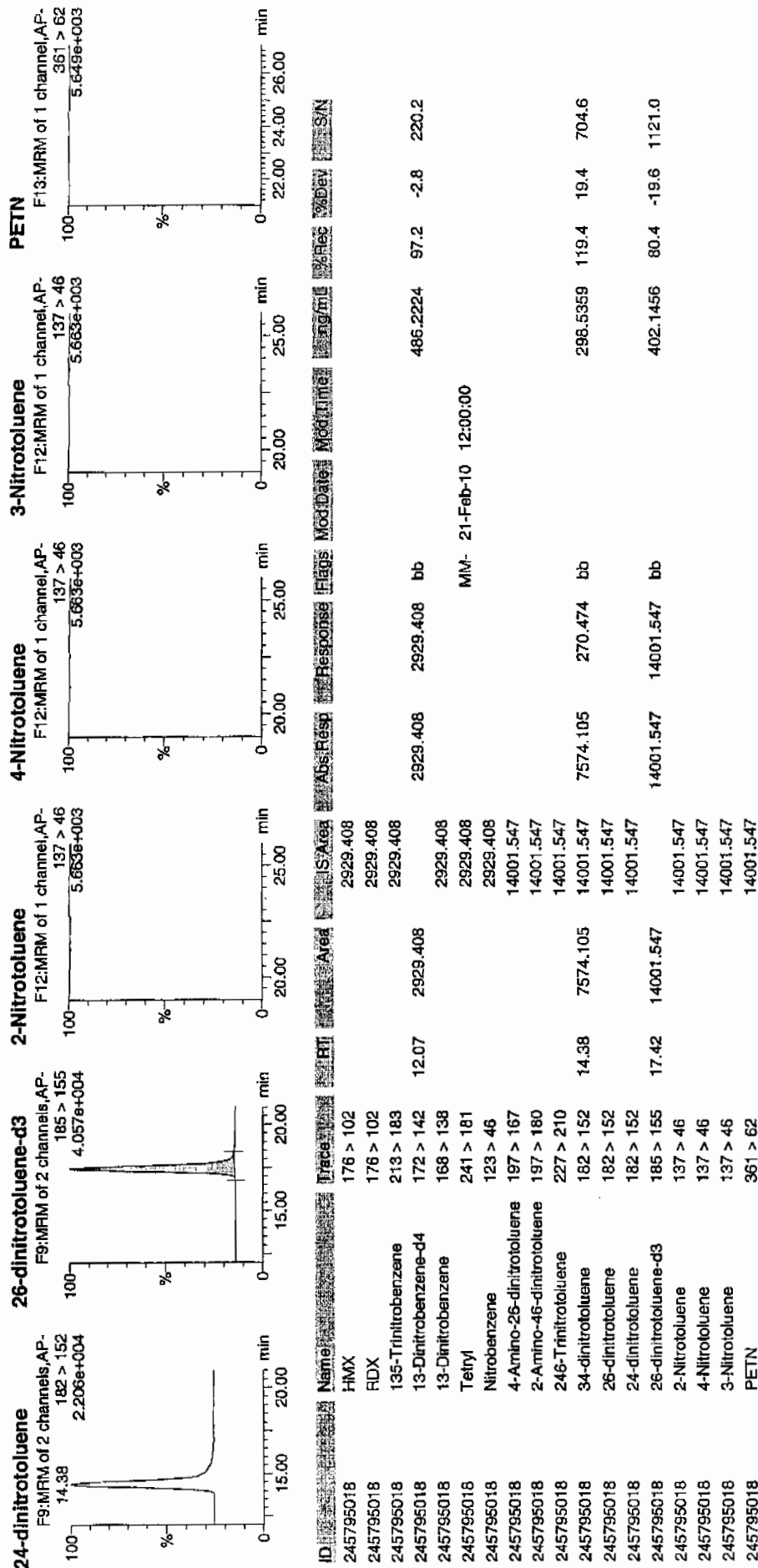


ham 2/22/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7945

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795018

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170041.wiff

Date Analyzed: 17-FEB-10 19:54

Units: ug/kg

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

*Concentration =

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

for 2/19/10

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Sample Name: "245795018" Sample ID: "94708921LER" File: "EX502170041.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

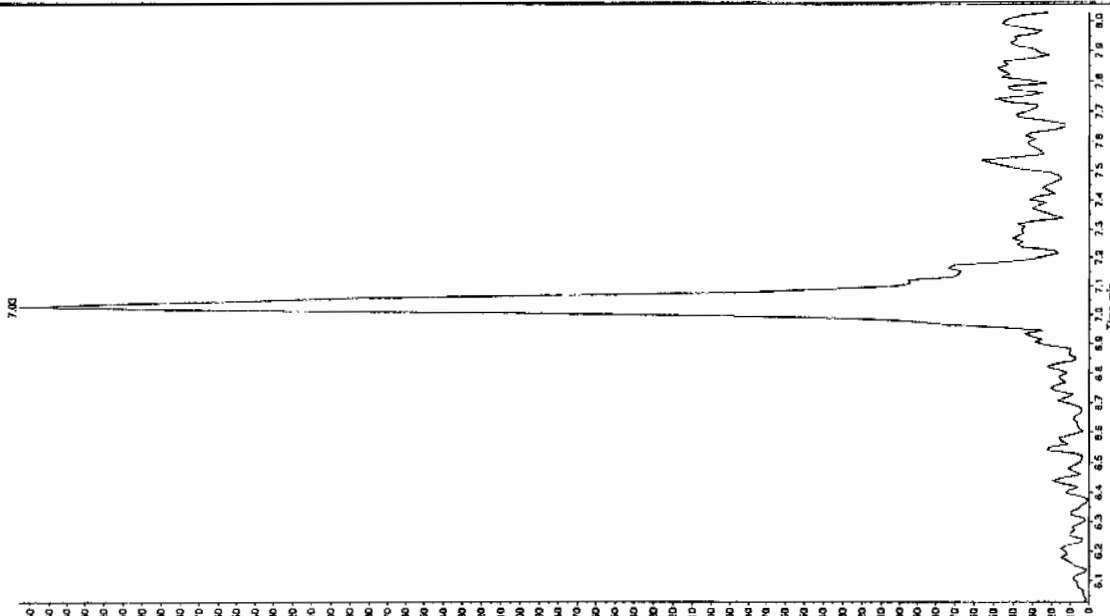
Sample Type: Unknown

Concentration: N/A

Calculated Conc: 2.17/2010 ng/mL

Acq. Time: 7:54:23 PM

Modified: No



Sample Name: "245795018" Sample ID: "94708921LER" File: "EX502170041.wif"

Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 2.17/2010 ng/mL

Acq. Time: 7:54:23 PM

Modified: No



2/19/10

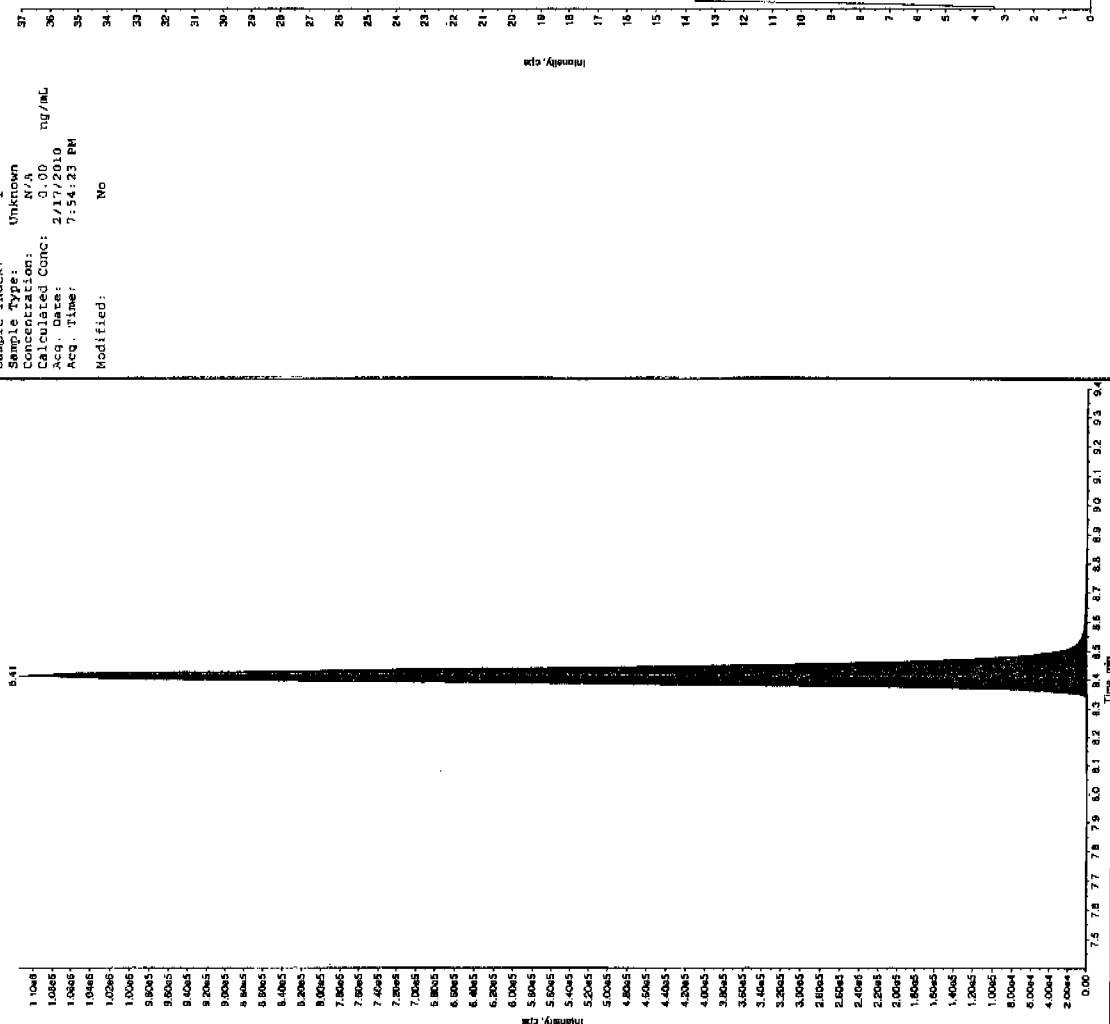
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "245795018" Sample ID: "94708921ER" File: "EXS02170041.wif"
 Peak Name: "26-Diamino-4-nitrotoluene" 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. Time: 7:54:23 PM
 Modified: No

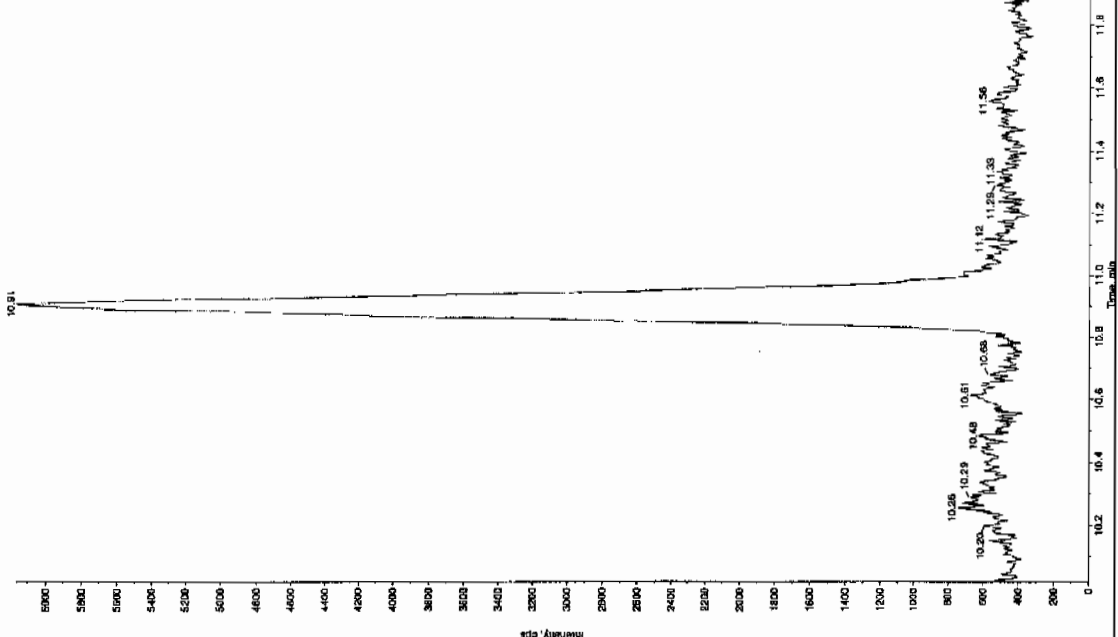
Sample Name: "245795018" Sample ID: "94708921ER" File: "EXS02170041.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2.177010 ng/mL
 Acq. Time: 7:54:23 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IGA
 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: 3.31 min
 Area: 1.23e+006 counts
 Height: 116090.342 cps
 Start Time: 3.31 min
 End Time: 3.66 min



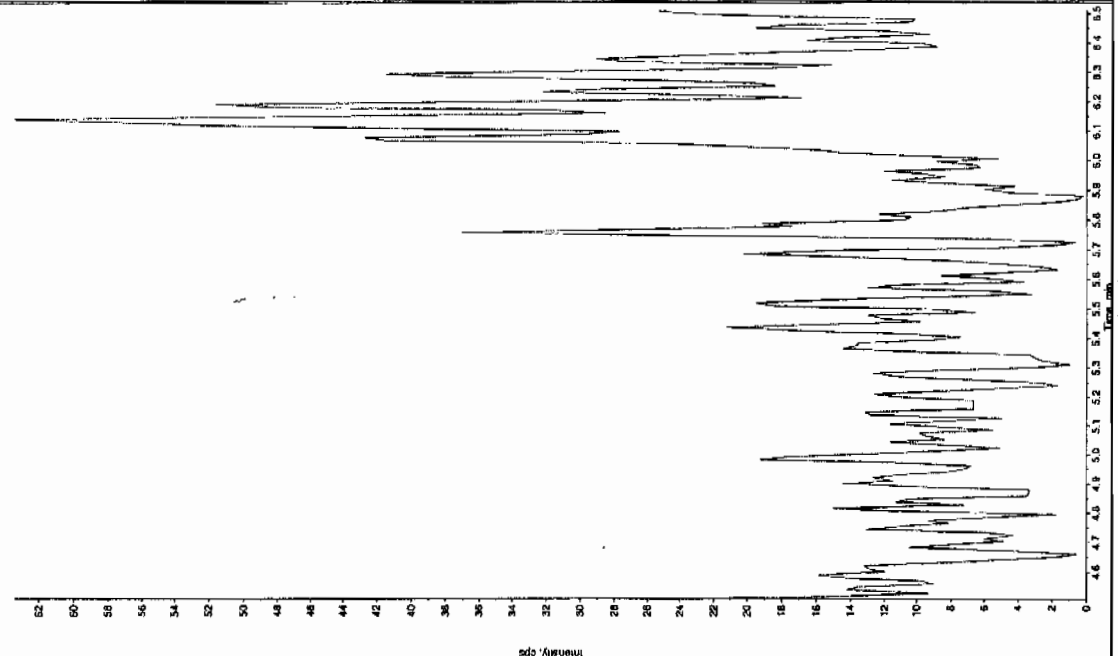
Sample Name: "245755018" Sample ID: "94708241.E" File: "EX802170041.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): 338.151.0 amu
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:54:23 PM
 Modified: No



Sample Name: "245755018" Sample ID: "94708241.E" File: "EX802170041.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): 165.045.0 amu
 Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:54:23 PM
 Modified: No



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216208a

Date Analyzed: 20-FEB-10 23:45

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\021610expA4.qid, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216208a

Date: 20-Feb-2010

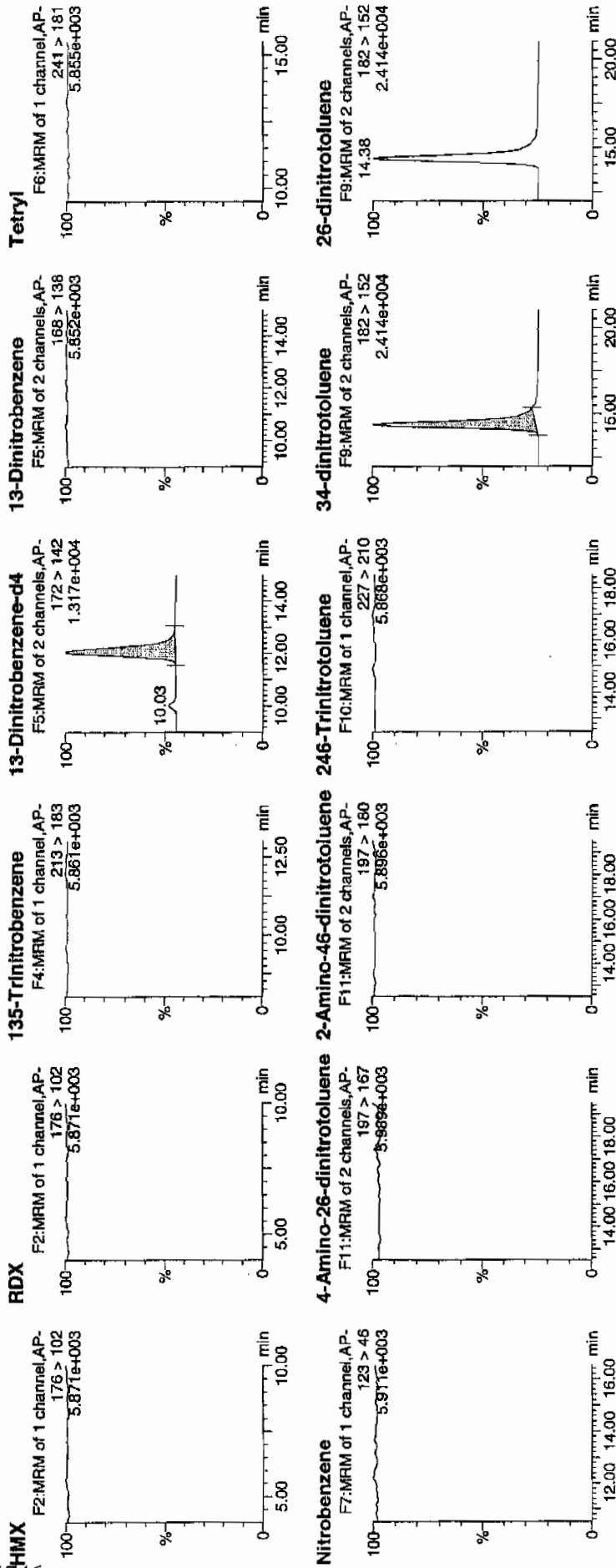
Time: 23:45:55

ID: 245795019

Vial: 4:6,E

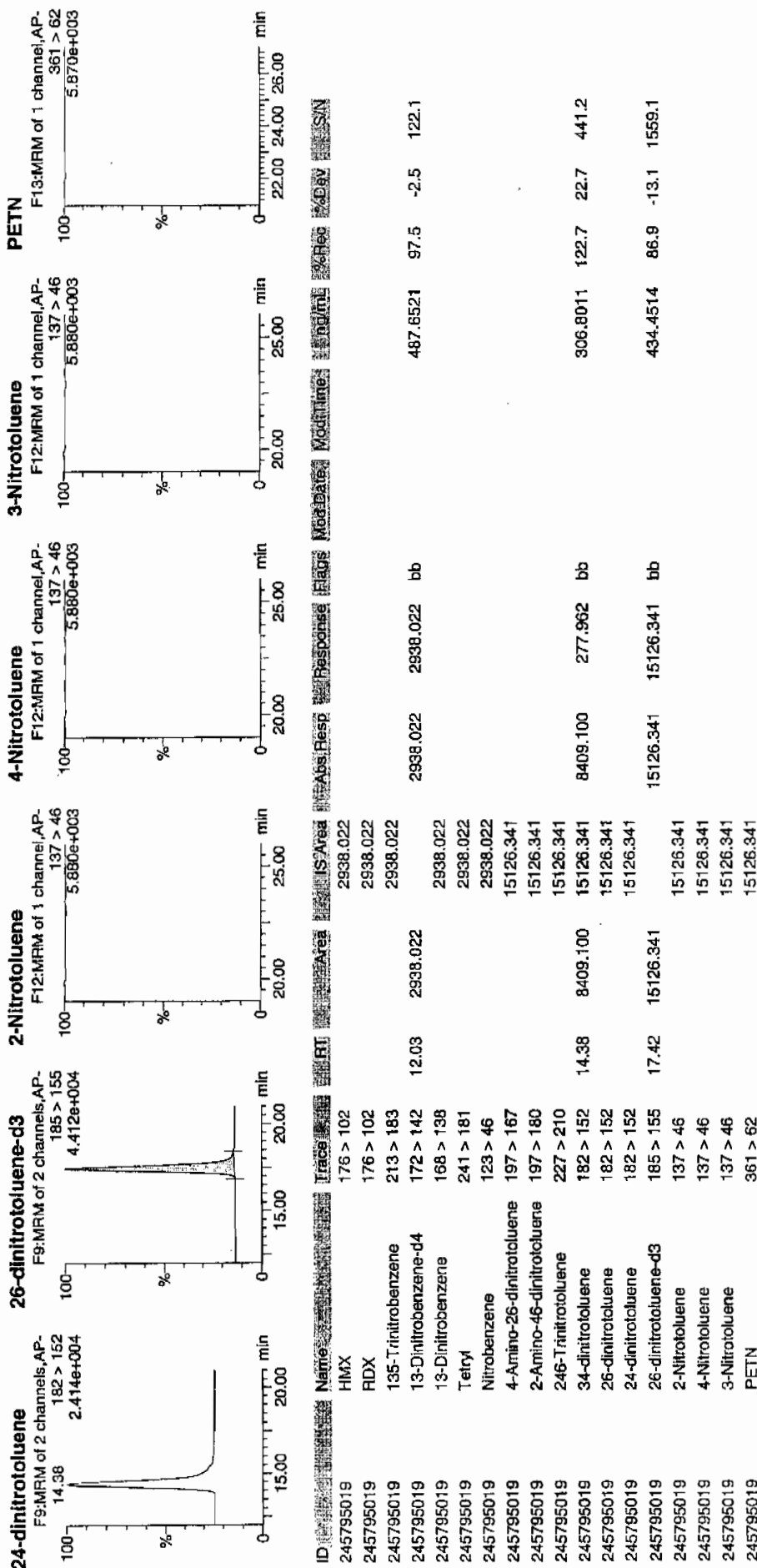
1077
2/2/10

LAUL 947089 / Souza / 21



Handwritten signature

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7943

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 245795019

Sample Amount 2

Moisture: *****

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170042.wiff

Date Analyzed: 17-FEB-10 20:10

Units: ug/kg

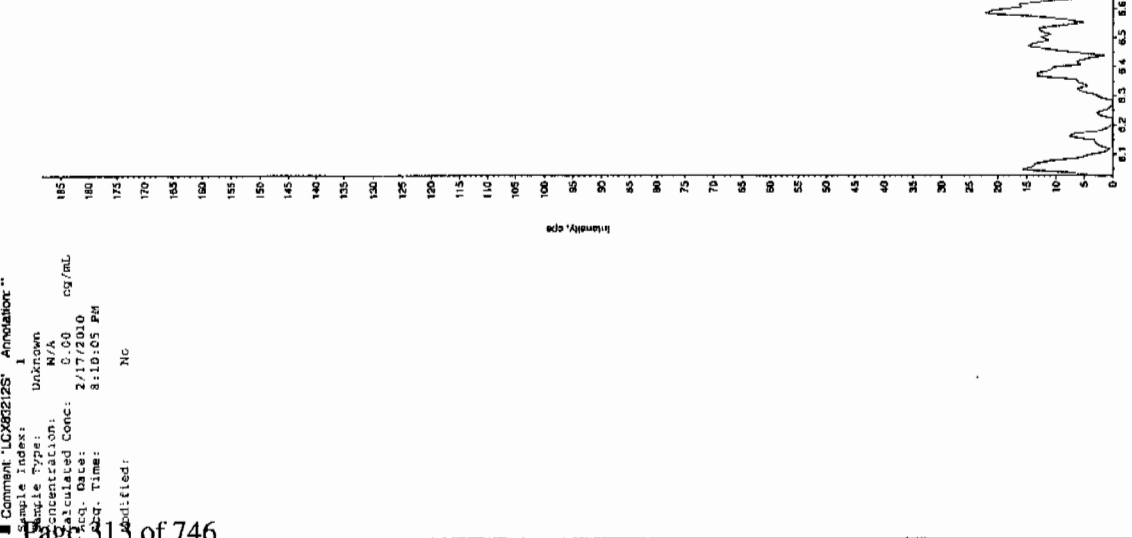
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

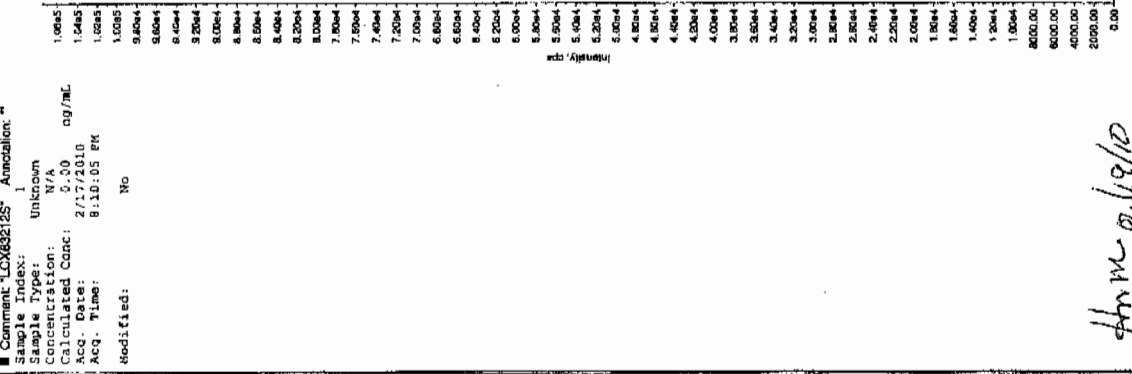
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

for 21010

Sample Name: "245795019" Sample ID: "94708921ER" File: "EX502170042.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCX832125" Annotation: "



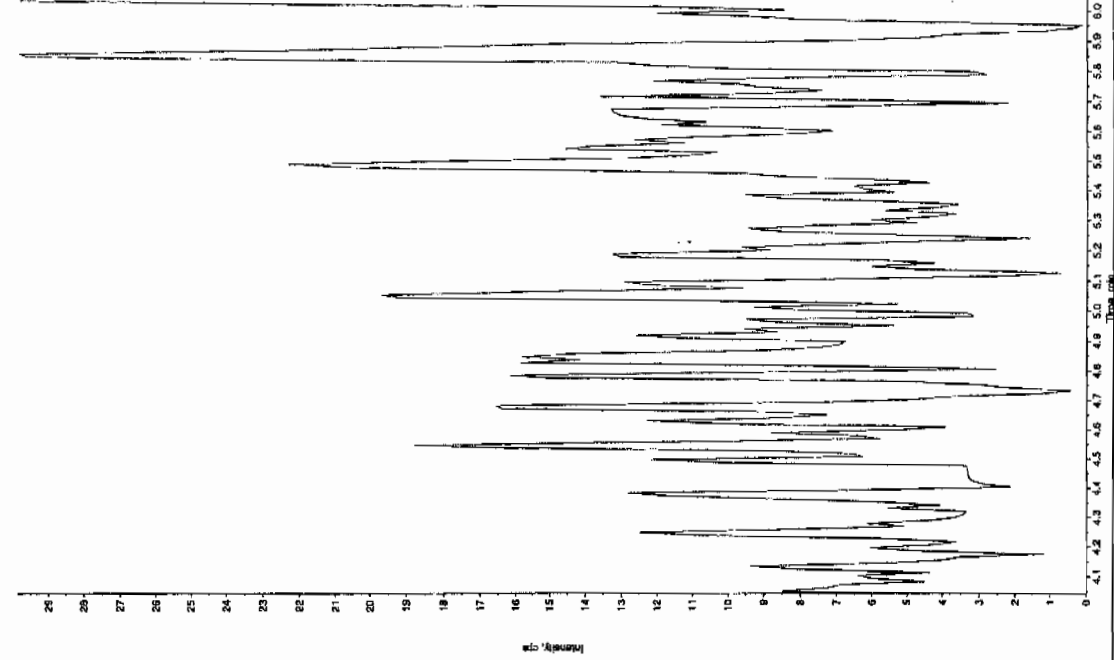
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 8:10:03 PM
 Modified: No



for m on 1/9/10

Sample Name: "245755019" Sample ID: "94708921ER" File: "EX502170042.wif"
 Peak Name: "26-Damino-4-nitrofluorene" Mass(es): "166.0460 amu"
 Comment: "LCX832125" Annotation: ""

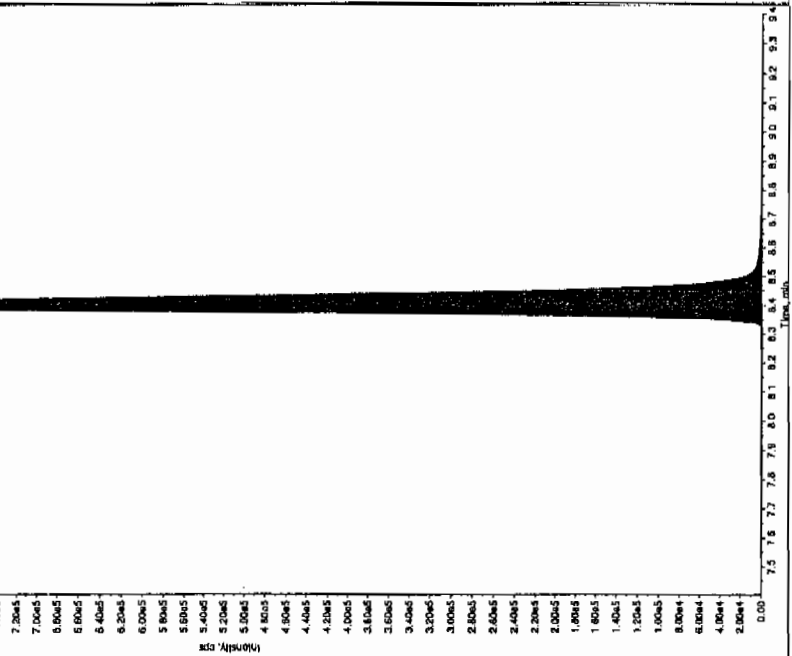
Sample Index: 1
 Sample Type: Unknown
 Concentration: M/A
 Calculated Conc: 2/15/2010
 Acq. Date: 8/10/05
 Acq. Time: 8:10:05 PM
 Modified: No



Sample Name: "245755019" Sample ID: "94708921ER" File: "EX502170042.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17153 amu"
 Comment: "LCX832125" Annotation: ""

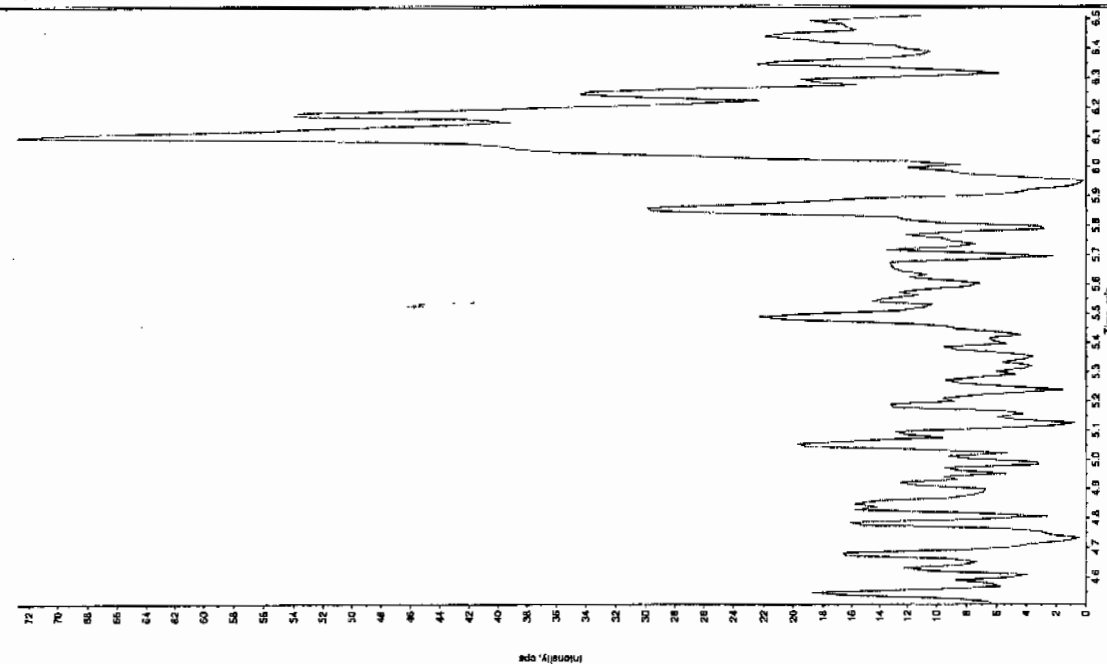
Sample Index: 1
 Sample Type: Unknown
 Concentration: 254 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 8/10/05 PM
 Acq. Time: 8:10:05 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQR
 Min. Peak Height: 1460.30 cps
 Min. Peak Width: 0.30 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.40 min
 Peak: 1.92e+006 counts
 Height: 1079938.657 cps
 Start Time: 8.31 min
 End Time: 8.44 min



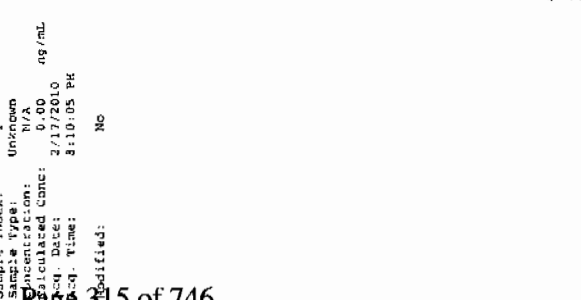
Sample Name: "245795019" Sample ID: "94708521LER" File: "EXS02170042.wil"
 Peak Name: "Tri(n-octadecyl phosphite)" Mass(es): "365.191.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 8:10:05 PM
 Modified: No



Sample Name: "245795019" Sample ID: "94708521LER" File: "EXS02170042.wil"
 Peak Name: "24-Dinitro-6-nitrofluorene" 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: 2/17/2010
 Acq. Time: 8:10:05 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
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)

Calibrator Levels 8321A-Modified-EXPL.xls

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1470

Lab Code: GEL

Run Date: 16-FEB-10.17-FEB-10

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
Calibration Level:	EXP0216003a	EXP0216004a	EXP0216005a	EXP0216006a	EXP0216007a	EXP0216008a			
Data File:									
1,3,5-Trinitrobenzene	3.974	4.275	3.998	3.443	3.801	3.743	3.872	7.253	
1,3-Dinitrobenzene-d4	6.479	6.269	6.407	6.397	5.489	5.109	6.025	9.613	
2,4,6-Trinitrotoluene	311	.331	.325	.38	.335	.329	0.335	7.003	
2,4-Dinitrotoluene	22	.247	.233	.258	.258	.262	0.246	6.788	
2,6-Dinitrotoluene	.926	1.085	1.036	1.071	1.113	1.126	1.060	6.868	
2,6-Dinitrotoluene-d3	37.517	35.811	37.549	35.639	32.457	29.93	34.817	8.699	
2-Amino-4,6-dinitrotoluene	.4	.452	.421	.427	.458	.435	0.432	4.923	
3,4-Dinitrotoluene	.812	.944	.904	1.008	.893	.876	0.906	7.276	
4-Amino-2,6-dinitrotoluene	.35	.323	.285	.352	.298	.312	0.320	8.491	
HMX	3.59	3.564	3.729	3.903	4.47	3.894	3.858	8.619	
Nitrobenzene	.831	.943	.785	.911	.849	.831	0.858	6.765	
RDX	2.28	2.16	2.79	2.593	3.02	2.717	2.593	12.46	
Tetryl	1.117	1.386	1.084	1.014	.989	.952	1.090	14.415	
m-Dinitrobenzene	.991	1.315	1.169	1.17	1.25	1.236	1.189	9.364	
m-Nitrotoluene	.078	.09	.083	.1	.095	.091	0.090	8.99	
o-Nitrotoluene	.139	.156	.146	.153	.159	.159	0.152	5.121	
p-Nitrotoluene	.072	.072	.076	.082	.083	.076	0.077	6.293	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1470

Lab Code: GEL

Run Date: 16-FEB-10, 17-FEB-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Calibration Level:											
Data File:	EXP0216003a	EXP0216004a	EXP0216005a	EXP0216006a	EXP0216007a	EXP0216008a					
Paranname:											
PETN	2110.32	4458.8	14532.6	25000.7	38622.3	42985.8	1.84	-0004443	26.645	.9992	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

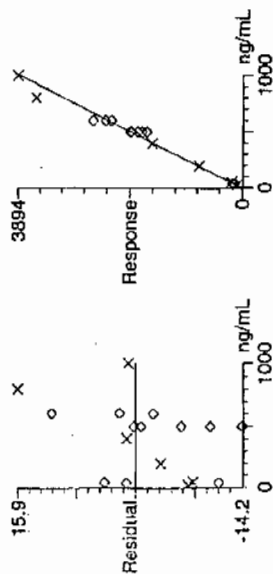
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qid, Time: Wed Feb 17 10:00:06 2010

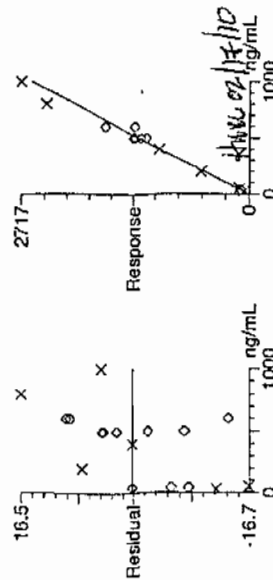
Method: C:\MASSLYNX\New_Exp\PRO\MethDB\021610expa.mdb, Time: Wed Feb 17 09:19:04 2010

Calibration: Untitled, Time: Wed Feb 17 10:00:06 2010

Compound name: HMX
Response Factor: 3.85837
R² SD: 0.33256, % Relative SD: 8.61918
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



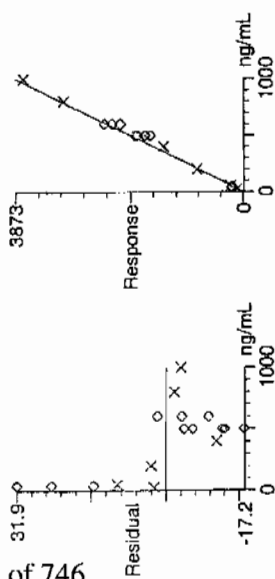
Compound name: RDX
Response Factor: 2.59344
R² SD: 0.323138, % Relative SD: 12.4598
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



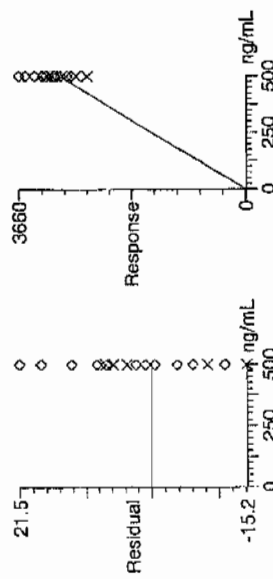
Quantity Calibration Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Compound name: 135-Trinitrobenzene
Response Factor: 3.87255
RRF SD: 0.280856, % Relative SD: 7.2525
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 13-Dinitrobenzene-d4
Response Factor: 6.02483
RRF SD: 0.579171, % Relative SD: 9.61306
Response type: External Std, Area
Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

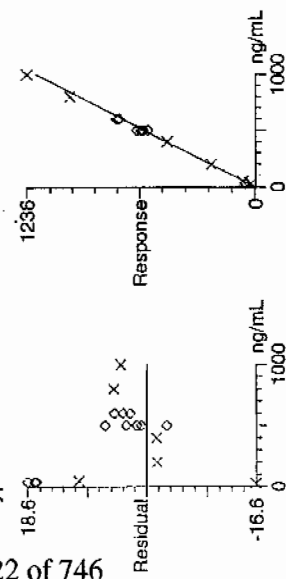
Compound name: 13-Dinitrobenzene

Response Factor: 1.18852

RRF SD: 0.111292, % Relative SD: 9.36391

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



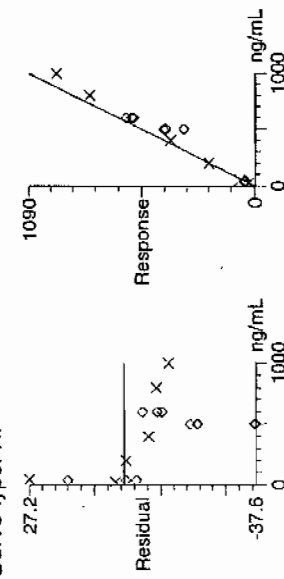
Compound name: Tetraol

Response Factor: 1.09023

RRF SD: 0.157158, % Relative SD: 14.4151

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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

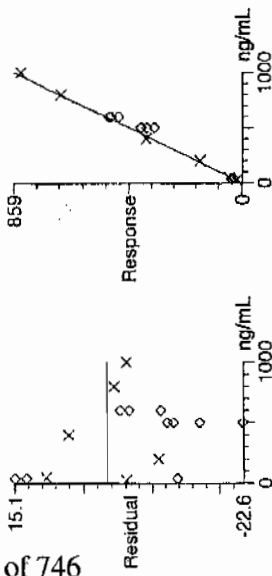
Compound name: Nitrobenzene

Response Factor: 0.858509

RRF SD: 0.0580797, % Relative SD: 6.76517

Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)

Curve type: RF



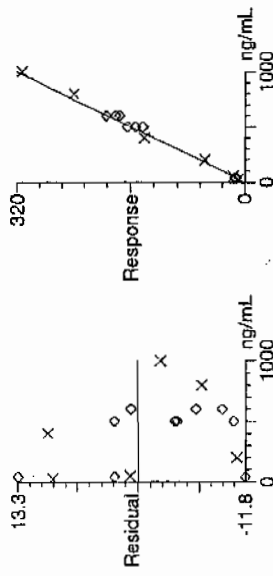
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.320217

RRF SD: 0.0271885, % Relative SD: 8.49063

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

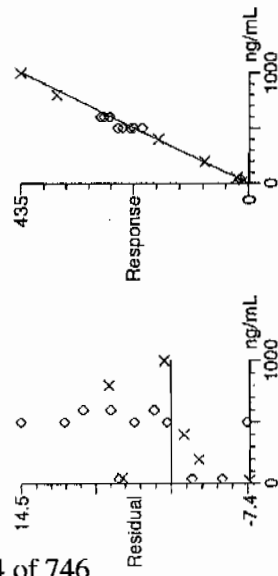
Curve type: RF



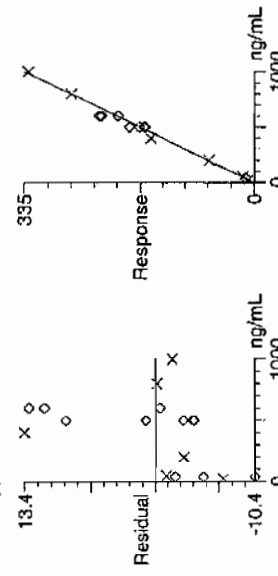
Quantity Calibration Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.432055
 RRF SD: 0.0212718, % Relative SD: 4.9234
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: 246-Trinitrotoluene
 Response Factor: 0.335255
 RRF SD: 0.0234791, % Relative SD: 7.00337
 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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

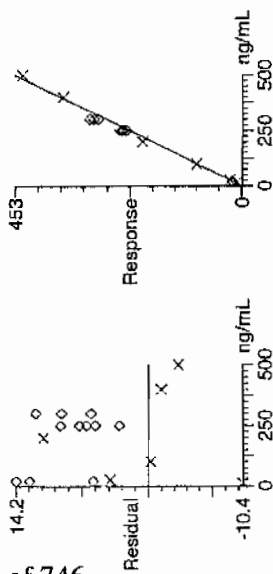
Compound name: 34-dinitrotoluene

Response Factor: 0.906001

RRF SD: 0.0659248, % Relative SD: 7.27646

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

Curve type: RF



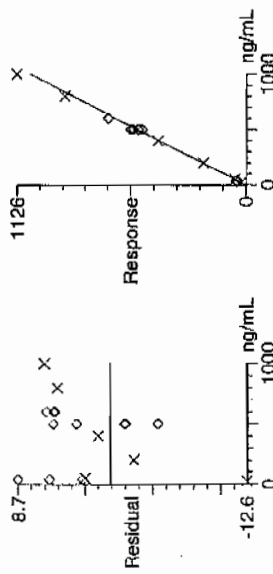
Compound name: 26-dinitrotoluene

Response Factor: 1.05944

RRF SD: 0.0727574, % Relative SD: 6.86754

Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)

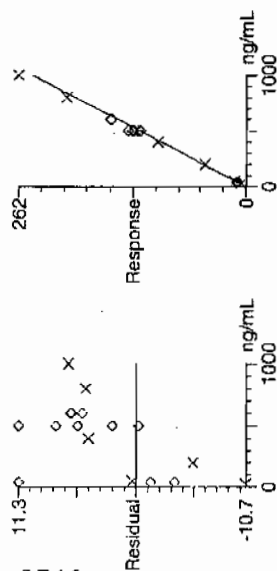
Curve type: RF



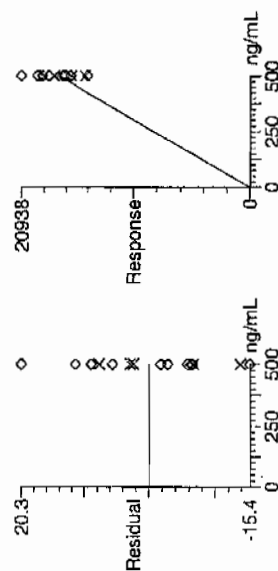
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.24651
RRF SD: 0.0167341, % Relative SD: 6.78841
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

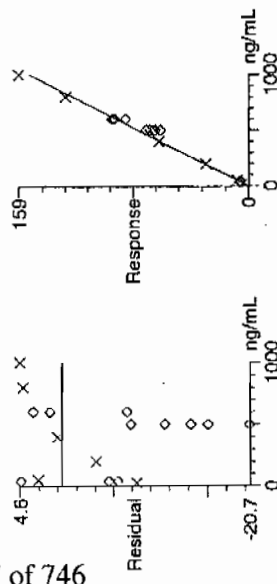


Compound name: 26-dinitrotoluene-d3
Response Factor: 34.8171
RRF SD: 3.02888, % Relative SD: 8.6994
Response type: External Std, Area
Curve type: RF

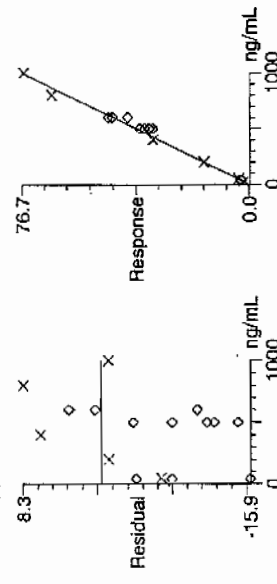


Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.152194
 RRF SD: 0.0077939, % Relative SD: 5.12103
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



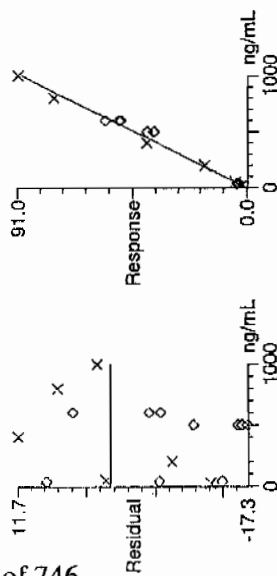
Compound name: 4-Nitrotoluene
 Response Factor: 0.0766512
 RRF SD: 0.00482394, % Relative SD: 6.29336
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



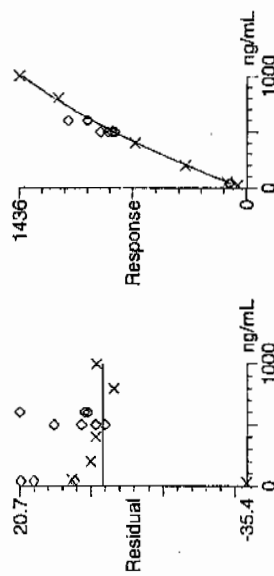
Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0894891
RPF SD: 0.0080453, % Relative SD: 8.99027
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RIF



Compound name: PETN
Coefficient of Determination: 0.999195
Calibration curve: $-0.000444334 * x^2 + 1.84022 * x + 26.6447$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0216010a

Analysis Date: 16-FEB-10 21:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	546.753	91	
PETN	600	622.003	104	
RDX	600	517.279	86	
Tetryl	600	535.085	89	
m-Dinitrobenzene	600	615.667	103	
m-Nitrotoluene	600	571.306	95	
o-Nitrotoluene	600	619.132	103	
p-Nitrotoluene	600	620.215	103	
1,3,5-Trinitrobenzene	600	544.138	91	
1,3-Dinitrobenzene-d4	500	505.15	101	
2,4,6-Trinitrotoluene	600	596.996	99	
2,4-Dinitrotoluene	600	637.037	106	
2,6-Dinitrotoluene	600	631.497	105	
2,6-Dinitrotoluene-d3	500	470.813	94	
2-Amino-4,6-dinitrotoluene	600	609.733	102	
3,4-Dinitrotoluene	300	318.405	106	
4-Amino-2,6-dinitrotoluene	600	544.592	91	
HMX	600	667.211	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216010a

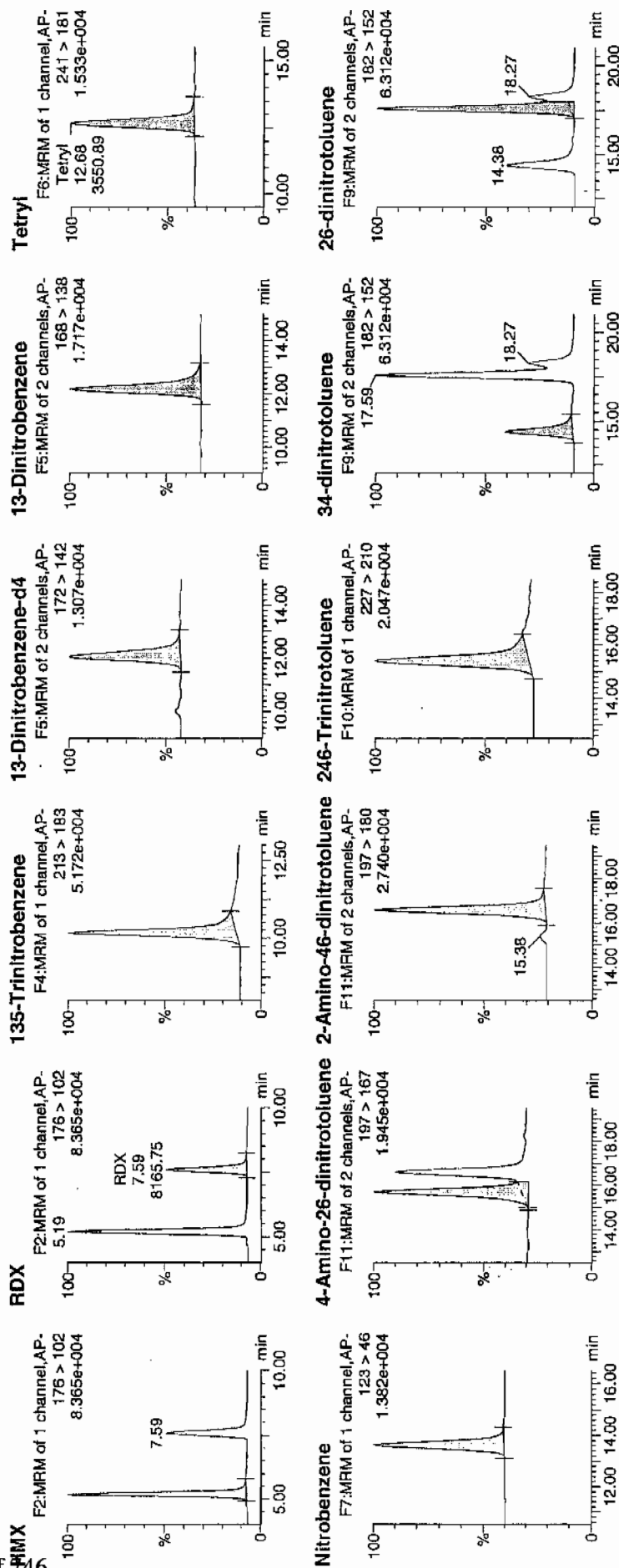
Date: 16-Feb-2010

Time: 21:34:44

AP: WXX100216-07ICV

Of: 1:1,B

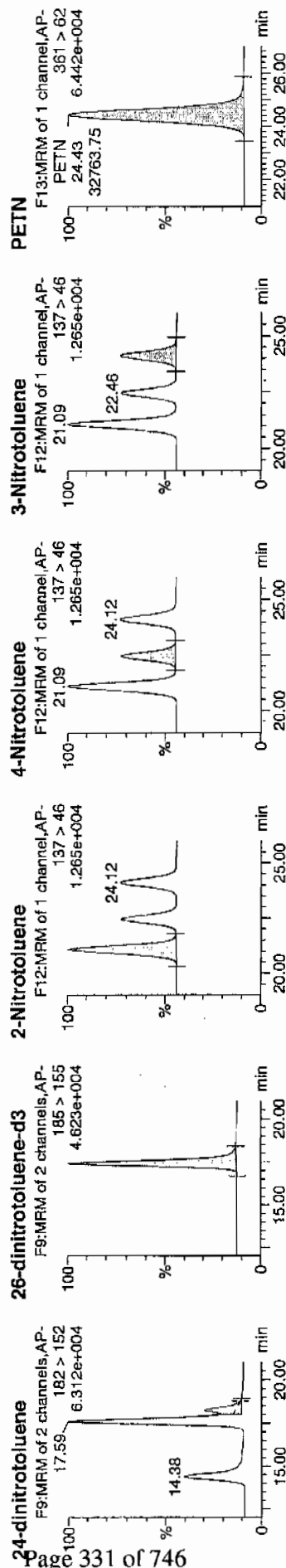
10/2/10



Handwritten signature

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	% Rec	% Dev	SN
WXX100216-07ICV	HMX	176 > 102	5.19	15669.772	3043.441	15669.772	2574.351	db			667.2113	111.2	11.2	1616.5
WXX100216-07ICV	FDX	176 > 102	7.59	8165.754	3043.441	8165.754	1341.533	bb			517.2788	86.2	-13.8	736.8
WXX100216-07ICV	135-Trinitrobenzene	213 > 183	10.16	12826.263	3043.441	12826.263	2107.198	bb			544.1376	90.7	-9.3	1038.4
WXX100216-07ICV	13-Dinitrobenzene-d4	172 > 142	12.07	3043.441	3043.441	3043.441	3043.441	bb			505.1495	101.0	1.0	83.9
WXX100216-07ICV	13-Dinitrobenzene	168 > 138	12.17	4453.971	3043.441	4453.971	731.733	bb			615.6672	102.6	2.6	397.6
WXX100216-07ICV	Tetryl	241 > 181	12.68	3550.885	3043.441	3550.885	583.367	bb			535.0850	89.2	-10.8	465.9
WXX100216-07ICV	Nitrobenzene	123 > 46	13.62	2857.135	3043.441	2857.135	469.392	bb			546.7525	91.1	-8.9	251.4
WXX100216-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.67	5717.246	16392.348	5717.246	174.388	MM	17-Feb-10	09:22:45	544.5918	90.8	-9.2	292.7
WXX100216-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.57	8636.743	16392.348	8636.743	263.438	bb			609.7334	101.6	1.6	597.0
WXX100216-07ICV	246-Trinitrotoluene	227 > 210	15.41	6561.721	16392.348	6561.721	200.146	bb			596.9963	99.5	-0.5	153.4
WXX100216-07ICV	34-dinitrotoluene	182 > 152	14.38	9457.581	16392.348	9457.581	288.475	bb			318.4052	106.1	6.1	366.9
WXX100216-07ICV	26-dinitrotoluene	182 > 152	17.59	21934.039	16392.348	21934.039	669.033	MM	17-Feb-10	09:25:41	631.4965	105.2	5.2	1072.7
WXX100216-07ICV	24-dinitrotoluene	182 > 152	18.27	5148.389	16392.348	5148.389	157.036	MM	17-Feb-10	09:54:19	637.0375	106.2	6.2	230.6
WXX100216-07ICV	26-dinitrotoluene-d3	185 > 155	17.42	16392.348	16392.348	16392.348	16392.348	bb			470.8130	94.2	-5.8	1428.4
WXX100216-07ICV	2-Nitrotoluene	137 > 46	21.09	3089.247	16392.348	3089.247	94.228	bb			619.1324	103.2	3.2	357.3
WXX100216-07ICV	4-Nitrotoluene	137 > 46	22.46	1558.593	16392.348	1558.593	47.540	bb			620.2153	103.4	3.4	179.8
WXX100216-07ICV	3-Nitrotoluene	137 > 46	24.12	1676.139	16392.348	1676.139	51.126	bb			571.3062	95.2	-4.8	182.7
WXX100216-07ICV	PETN	361 > 62	24.43	32763.752	16392.348	32763.752	999.361	bb			622.0025	103.7	3.7	5170.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/16/10
 Time of Injection: 2134
 Standard Number: WXX100216-07ICV
 Data File: EXP0216010a

HMX	111.2
RDX	86.2
135-TNB	90.7
13-DNB	102.6
Tetryl	89.2
Nitrobenzene	91.1
4A-26-DNT	90.8
2A-46-DNT	101.6
246-TNT	99.5
34-DNT(surr)	106.1
26-DNT	105.2
24-DNT	106.2
2-NT	103.2
4-NT	103.4
3-NT	95.2
PETN	103.7

*WXX
2/17/10*

Total 1585.9

Average 99.1

WXX 02/17/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Form 6

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1470

Lab Code: GEL

Run Date: 16-FEB-10 17-FEB-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: Average RF

Calibration Level:		19	20	21	22	23	24	25	Ave RF	RSD	Q
Data File:		EXS02170003.w	EXS02170004.w	EXS02170005.w	EXS02170006.w	EXS02170007.w	EXS02170008.w	EXS02170009.w			
Parname											
2,4-Diamino-6-nitrotoluene	1240	1340	1270	1220	1250	1240	1090	1235.714	6.03		
2,6-Diamino-4-nitrotoluene	2010	2030	2100	1920	1730	2070	1920	1968.571	6.42		
3,4-Dinitrotoluene	14000	13200	13200	12400	15900	12700	11800	13314.286	9.91		
3,5-Dinitroaniline	8310	7580	7260	7390	7380	7150	6410	7354.286	7.67		
TA.TB	1770	1730	1760	1710	1710	1650	1550	1697.143	4.42		
tris(o-cresyl) phosphate	25700	24600	23700	22100	21200	19500	15500	21757.143	16		

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

021710ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.7e+003			
Standard deviation	75.1			
%RSD	4.42			
Use Area				

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	7.36e+003			
Standard deviation	564			
%RSD	7.67			
Use Area				

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.33e+004			
Standard deviation	1.32e+003			
%RSD	9.91			
Use Area				

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.97e+003			
Standard deviation	126			
%RSD	6.42			
Use Area				

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Don
2/19/10

Don
2/19/10

0211710ICAL

Fit Mean Response Factor Weighting None Iterate No

Factor 1.24e+003

Standard deviation 74.5

%RSD 6.03

Use Area

Peak Name: tris(o-cresyl) phosphate

No Internal Standard

Q1/Q3 Masses: 369.15/91.00 amu

Fit Mean Response Factor Weighting None Iterate No

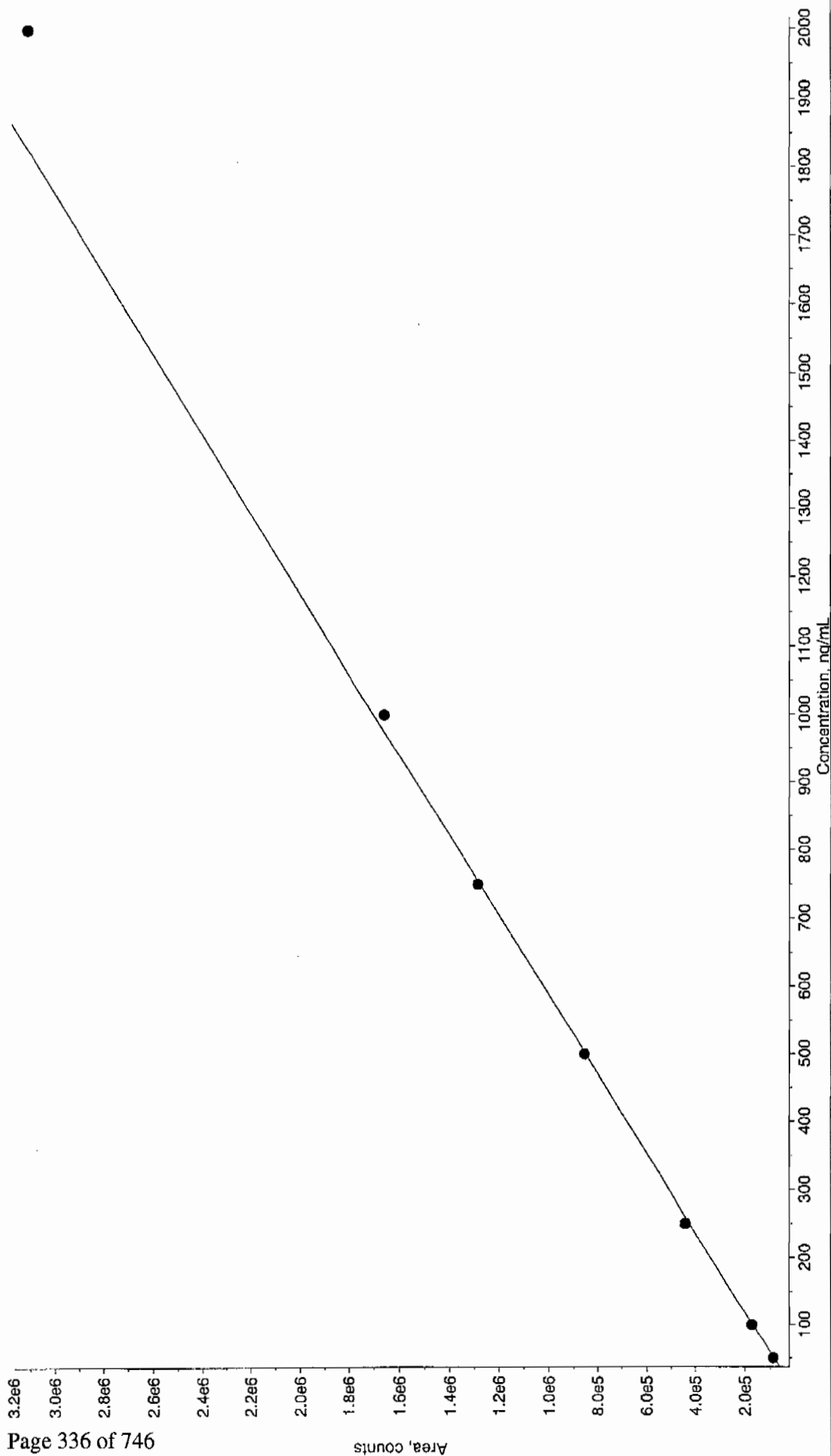
Factor 2.18e+004

Standard deviation 3.47e+003

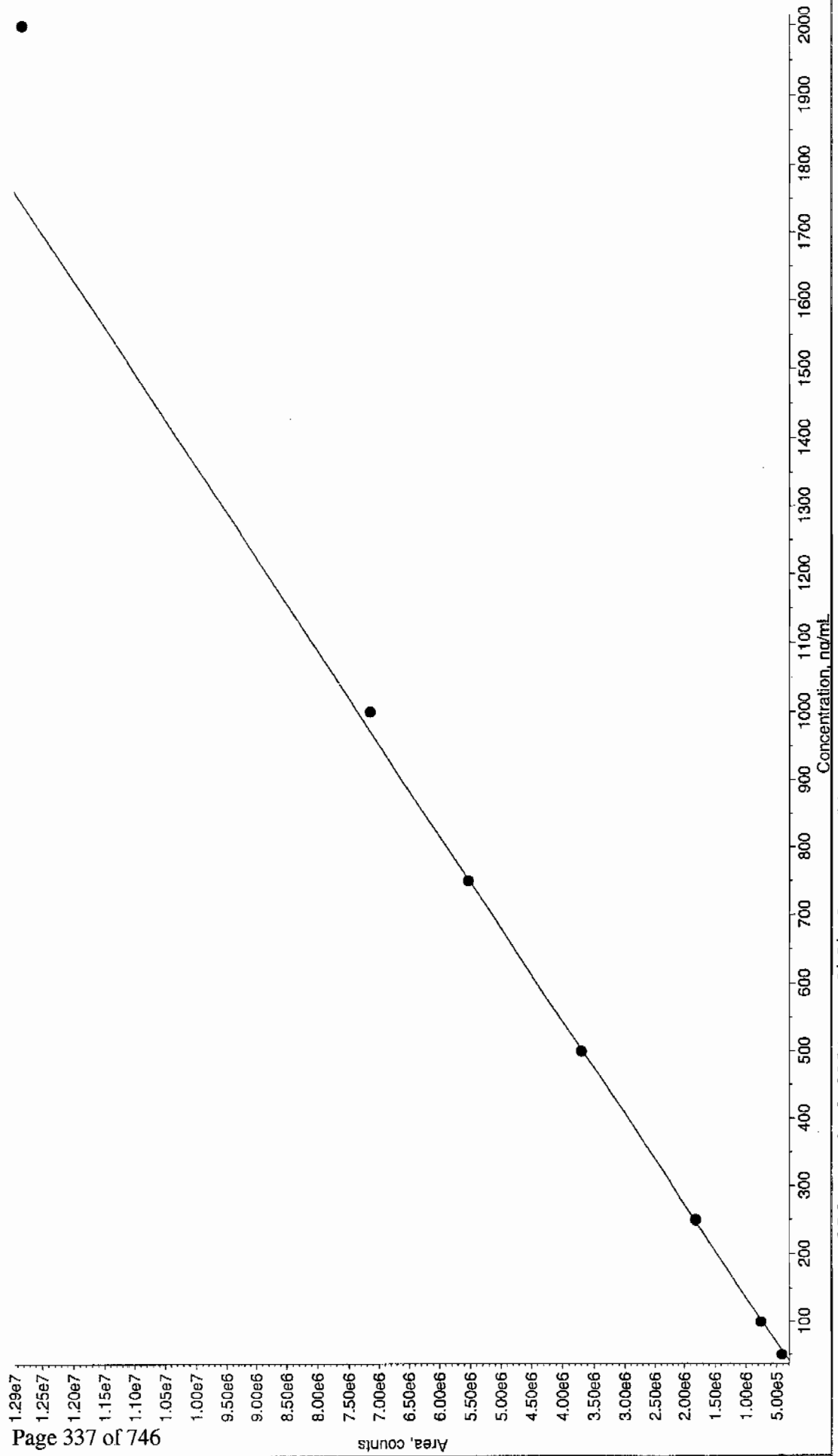
%RSD 16

Use Area

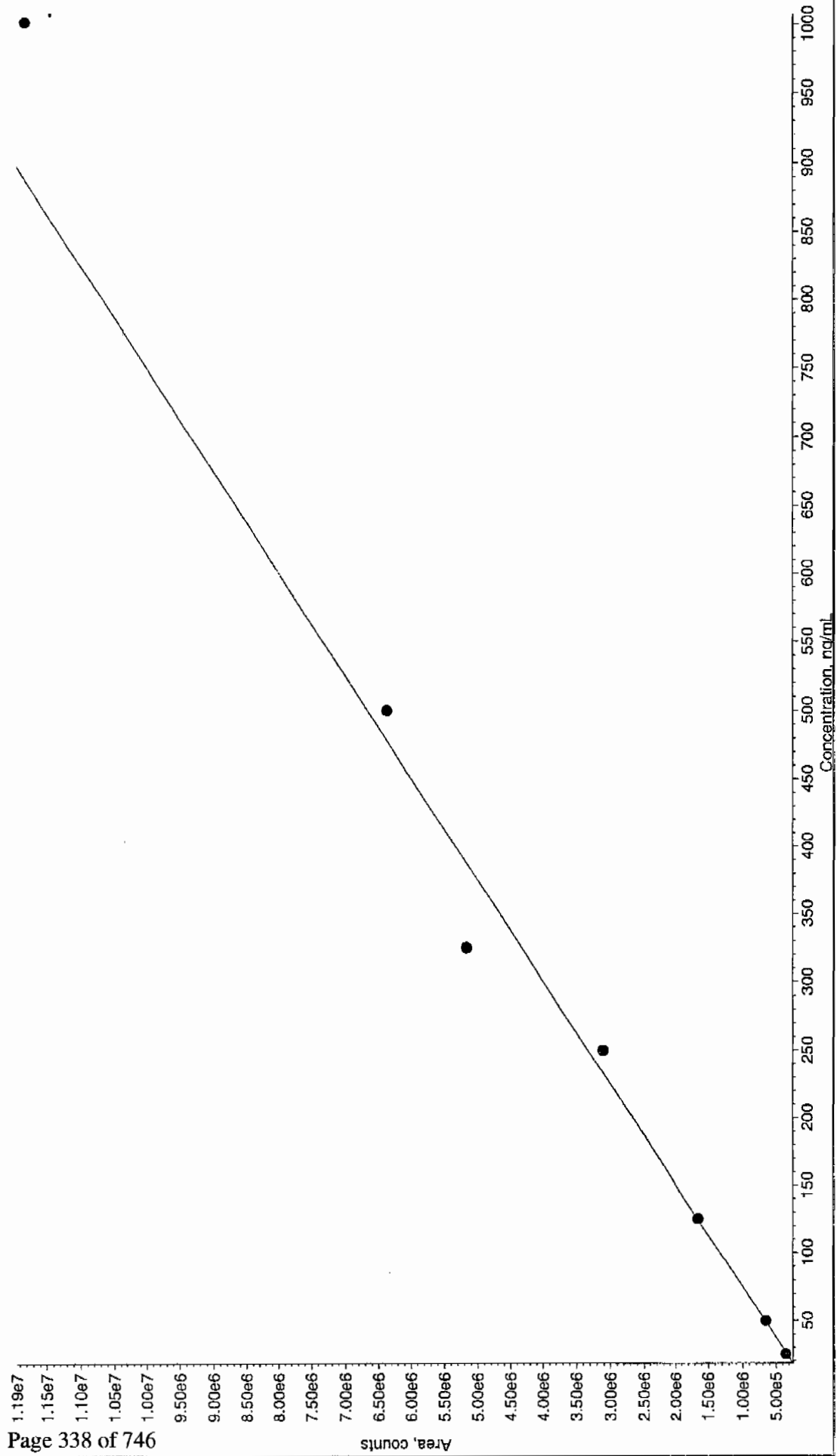
021710.rdb (TATB): "Mean Response Factor" Regression ("No" weighting): $y = 1.7e+003 \times (\text{std. dev.} = 75.1)$



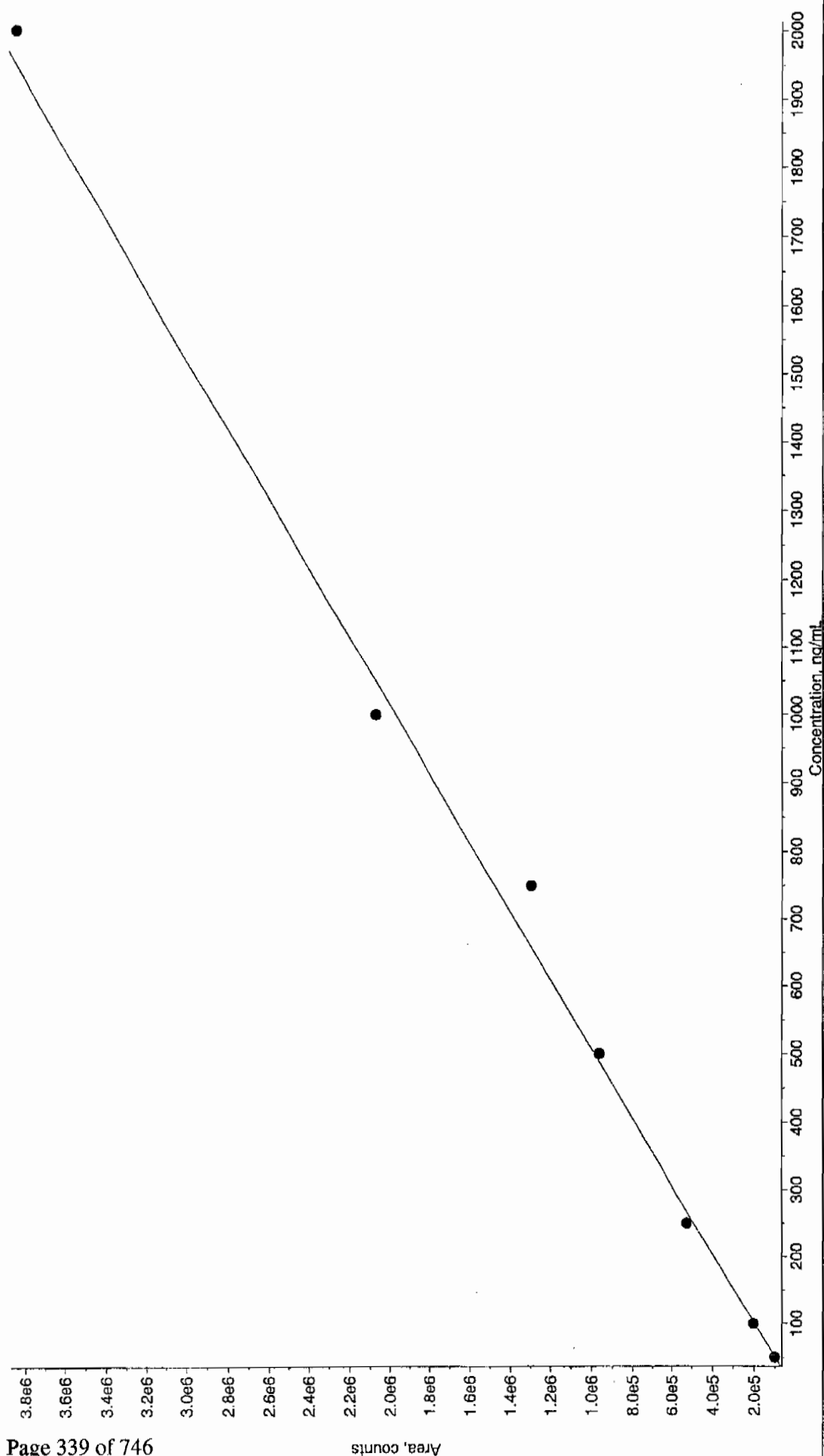
021710.rdb (35-Dinitroaniline): "Mean Response Factor" Regression ("No" weighting): $y = 7.36e+003 \times (\text{std. dev.} = 564)$



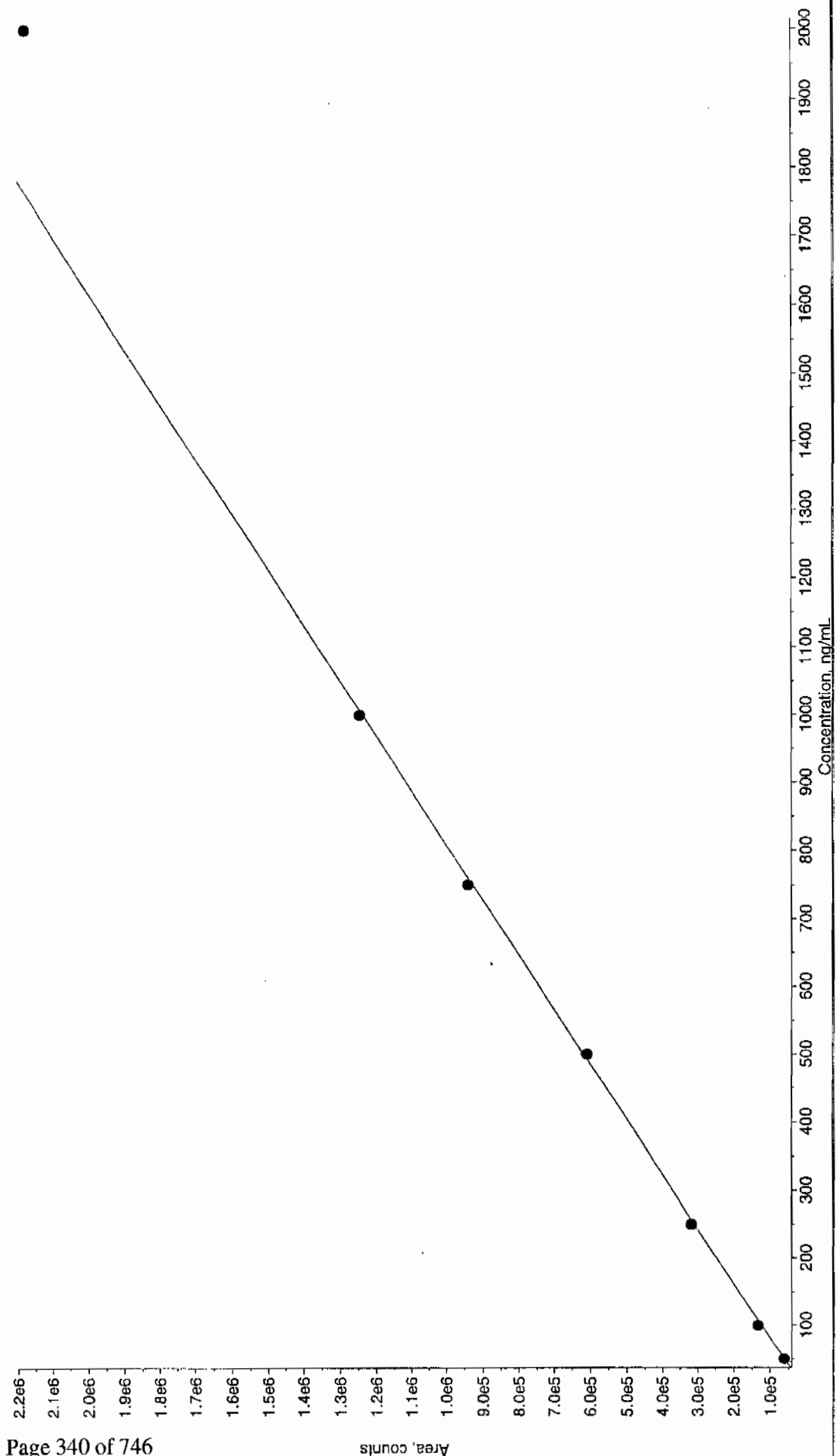
021710.rdb (34-Dinitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.33e+004 \times (\text{std. dev.} = 1.32e+003)$



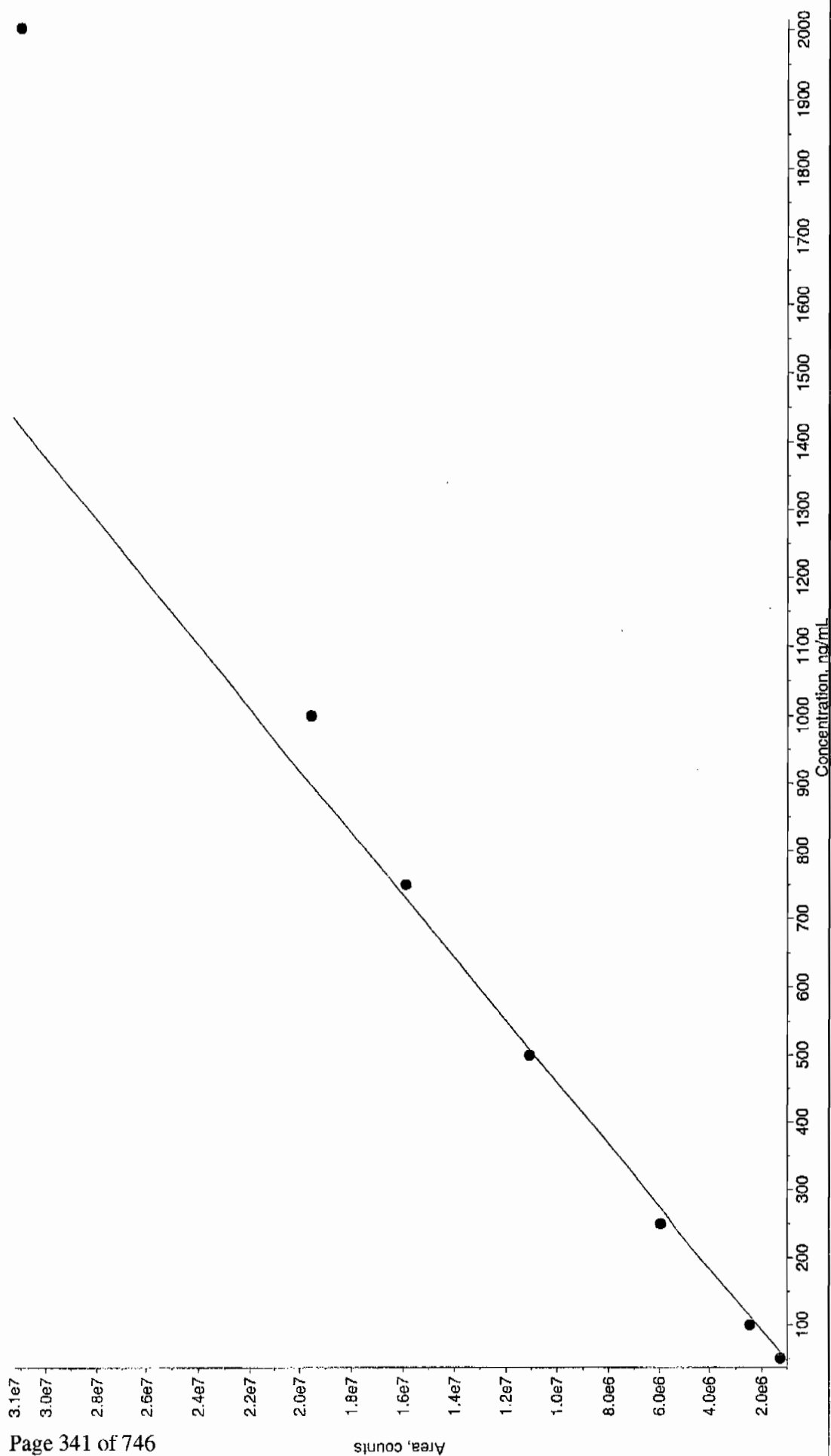
021710.rdb (26-Diamino-4-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.97e+003 \times (\text{std. dev.} = 126)$



021710.rdb (24-Diamino-6-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.24e+003 \times (\text{std. dev.} = 74.5)$



021710.rdb (tris(o-cresyl) phosphate): "Mean Response Factor" Regression ("No" weighting): $y = 2.18e+004 \times (\text{std. dev.} = 3.47e+003)$



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS02170011.wiff

Analysis Date: 17-FEB-10 12:03

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	522	104	
3,4-Dinitrotoluene	250	238	95	
3,5-Dinitroaniline	500	521	104	
TATB	500	485	97	
tris(o-cresyl) phosphate	500	498	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

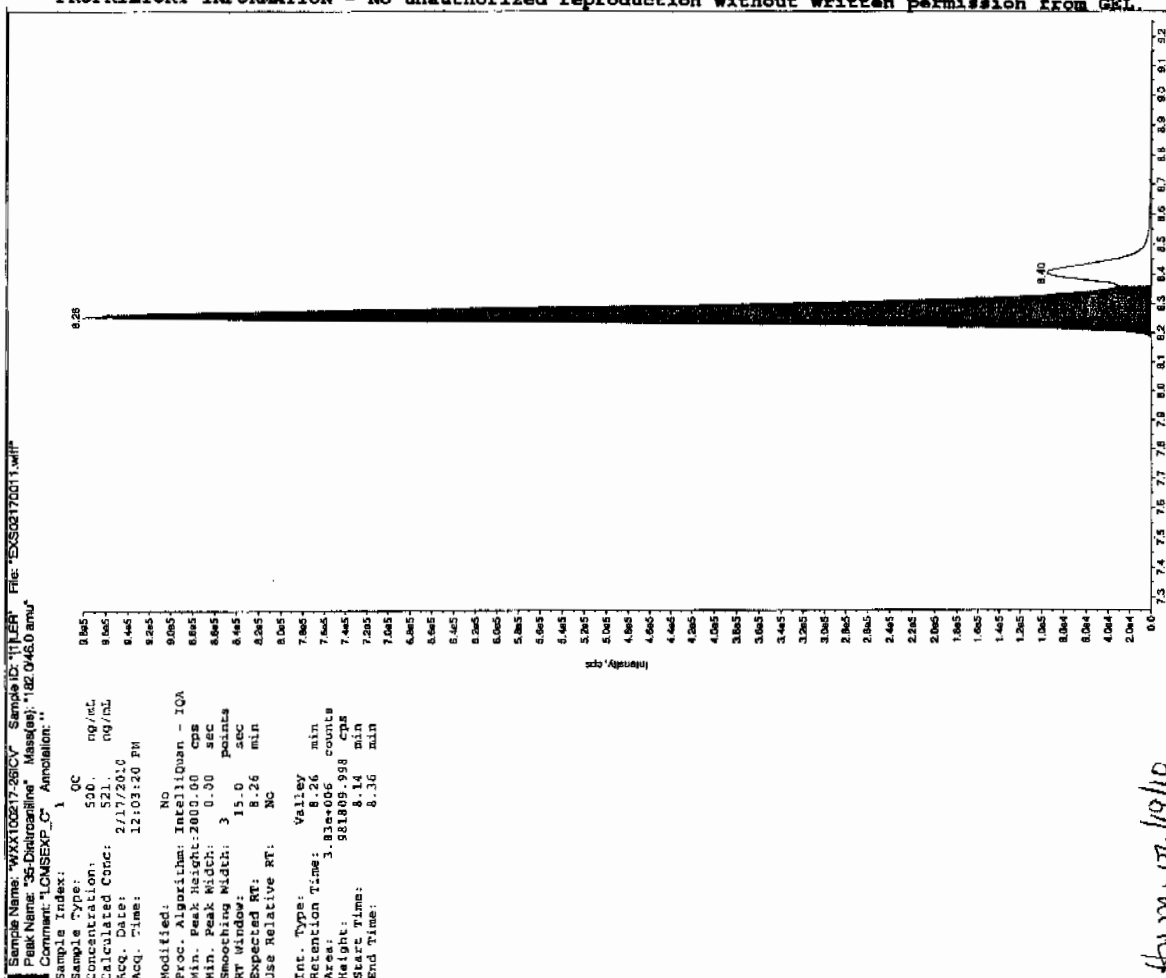
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

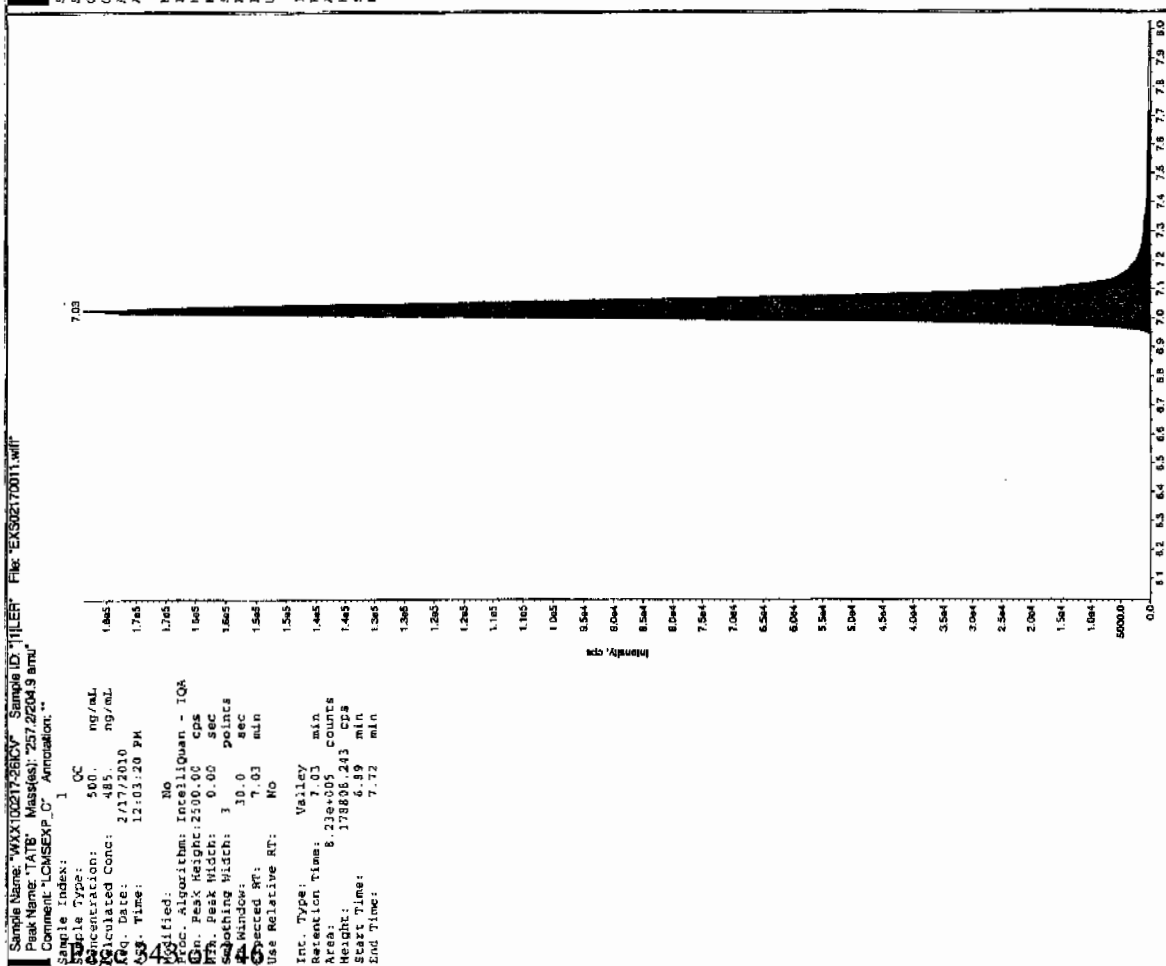
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

kan 2/19/10



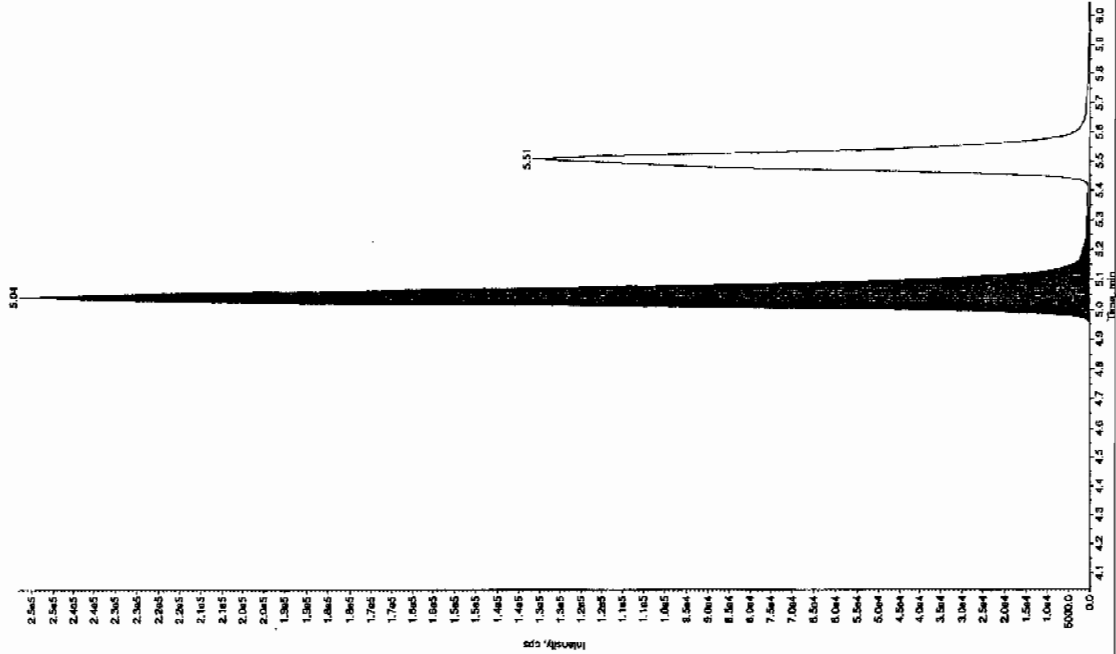
kan 2/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSSMS#4

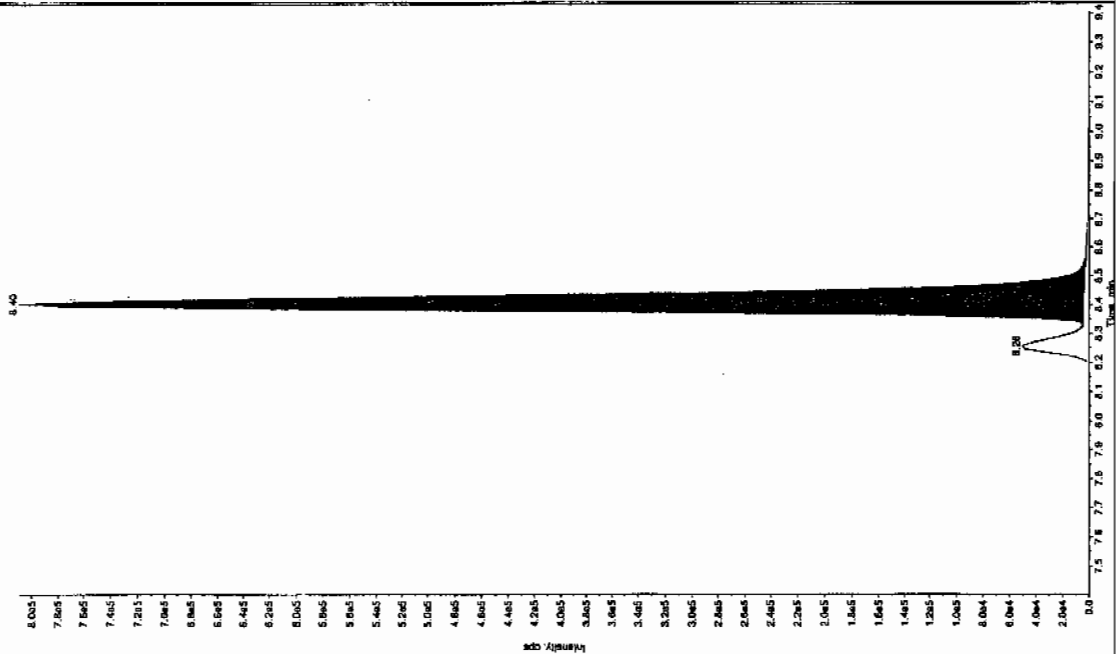
Sample Name: WXX100217-251CV Sample ID: 111ER File: EXS02170011.wif
Peak Name: 25-Dimino-4-Hydrobueno Mass(es): 166.046.0 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1 QC
Sample Type: 500 ng/mL
Concentration: 532 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 12:03:20 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: 1.03e+006 counts
Height: 252933.481 cps
Start Time: 4.92 min
End Time: 5.34 min



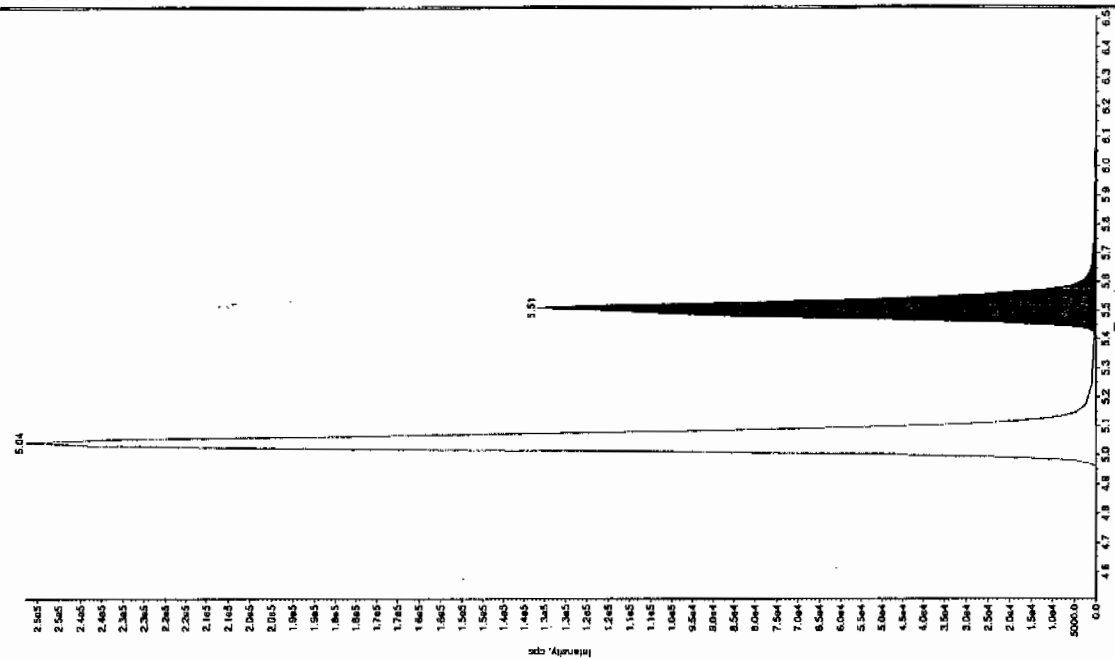
Sample Name: WXX100217-251CV Sample ID: 111ER File: EXS02170011.wif
Peak Name: 34-Dimino-4-Hydrobueno Mass(es): 162.17151.9 amu
Comment: LCMSEXP_C Annotation:

Sample Index: 1 QC
Sample Type: 250 ng/mL
Concentration: 238 ng/mL
Acq. Date: 2/17/2010
Acq. Time: 12:03:20 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: 3.17e+006 counts
Height: 806022.278 cps
Start Time: 8.33 min
End Time: 8.62 min



Sample Name: WXX10217-28CV Sample ID: 111ER File: EXS02170011.wif
 Peak Name: 24-Diamino-6-nitrodiphenyl ether Mass(es): 166.043.0 amu
 Comment: LCMSEXP_C Acquisition: 1

Sample Index: 1
 Sample Name: 1 OC
 Concentration: 500. ng/mL
 Calculated Conc: 434. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:03:20 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: 5.31 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.31 min
 Area: 5.37e+005 counts
 Height: 131656.830 cps
 Start Time: 5.41 min
 End Time: 5.86 min



Sample Name: WXX10217-28CV Sample ID: 111ER File: EXS02170011.wif
 Peak Name: 10Z Mass(es): 365.191.0 amu
 Comment: LCMSEXP_C Acquisition: 1

Sample Index: 1
 Sample Name: 1 OC
 Concentration: 500. ng/mL
 Calculated Conc: 498. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:03:20 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.08e+007 counts
 Height: 257622.314 cps
 Start Time: 10.8 min
 End Time: 11.3 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216012a

Analysis Date: 16-FEB-10 22:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Dinitrobenzene	40	46.913	117	
m-Nitrotoluene	40	43.185	108	
o-Nitrotoluene	40	41.818	105	
p-Nitrotoluene	40	36.985	92	
1,3,5-Trinitrobenzene	40	52.773	132	*
1,3-Dinitrobenzene-d4	500	467.275	93	
2,4,6-Trinitrotoluene	40	39.143	98	
2,4-Dinitrotoluene	40	38.529	96	
2,6-Dinitrotoluene	40	43.494	109	
2,6-Dinitrotoluene-d3	500	466.982	93	
2-Amino-4,6-dinitrotoluene	40	39.227	98	
3,4-Dinitrotoluene	20	22.552	113	
4-Amino-2,6-dinitrotoluene	40	41.012	103	
HMX	40	41.651	104	
Nitrobenzene	40	45.259	113	
PETN	40	42.843	107	
RDX	40	36.749	92	
Tetryl	40	39.776	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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216012a

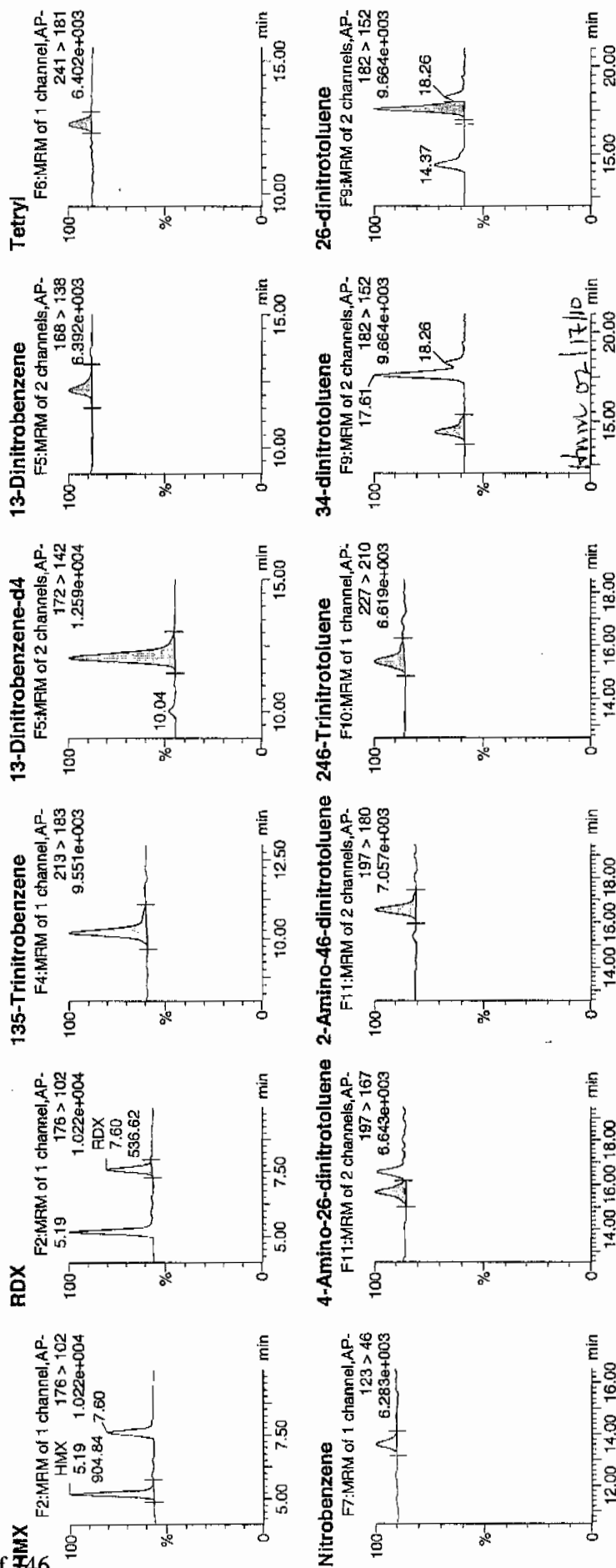
Date: 16-Feb-2010

Time: 22:33:56

ID: WXX100216-08CRI

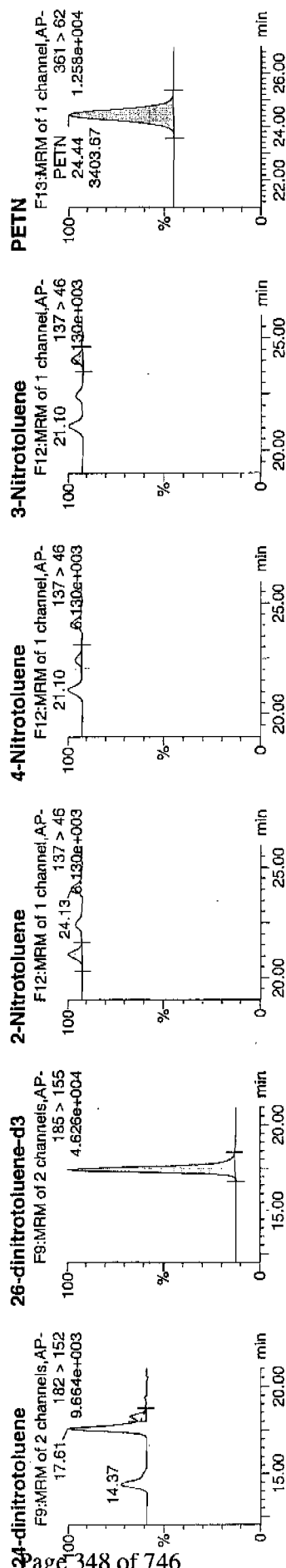
Vial: 1:1,C

11/1/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA.qtd, Time: Wed Feb 17 10:00:06 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Conc	% Day	SN
WXX100216-08CRI	HMX	176 > 102	5.19	904.843	2815.255	904.843	160.704	bb			41.6506	104.1	146.1
WXX100216-08CRI	RDX	176 > 102	7.60	536.624	2815.255	536.624	95.306	bb			36.7490	91.9	78.6
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.18	1150.692	2815.255	1150.692	204.367	bb			52.7734	131.9	153.3
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.06	2815.255	2815.255	2815.255	2815.255	bb			467.2753	93.5	116.9
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.20	313.940	2815.255	313.940	55.757	bb			46.9129	117.3	56.5
WXX100216-08CRI	Tetryl	241 > 181	12.66	244.166	2815.255	244.166	43.365	bb			39.7758	99.4	26.2
WXX100216-08CRI	Nitrobenzene	123 > 46	13.61	218.774	2815.255	218.774	38.855	bb			45.2588	113.1	13.8
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.67	427.054	16258.972	427.054	13.133	MM	17-Feb-10	09:22:56	41.0124	102.5	29.2
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.57	551.120	16258.972	551.120	16.948	bb			39.2269	98.1	56.9
WXX100216-08CRI	246-Tritrotoluene	227 > 210	15.40	426.730	16258.972	426.730	13.123	bb			39.1431	97.9	30.4
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.37	664.397	16258.972	664.397	20.432	bb			22.5515	112.8	21.1
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.61	1498.403	16258.972	1498.403	46.079	MM	17-Feb-10	09:25:53	43.4940	108.7	65.6
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.26	308.850	16258.972	308.850	9.498	MM	17-Feb-10	09:54:26	38.5291	96.3	13.0
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.43	16258.972	16258.972	16258.972	16258.972	bb			486.9822	93.4	1321.7
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.10	206.957	16258.972	206.957	6.364	bb			41.8176	104.5	61.3
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.41	92.186	16258.972	92.186	2.835	bb			36.9848	92.5	27.2
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.13	125.667	16258.972	125.667	3.865	bb			43.1845	108.0	39.5
WXX100216-08CRI	PETN	361 > 62	24.44	3403.665	16258.972	3403.665	104.670	bb			42.8433	107.1	656.3

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/16/10
 Time of Injection 2233
 Standard Number WXX100216-08CRI
 Data File EXP0216012a

HMX	104.1
RDX	91.9
135-TNB	131.9
13-DNB	117.3
Tetryl	99.4
Nitrobenzene	113.1
4A-26-DNT	102.5
2A-46-DNT	98.1
246-TNT	97.9
34-DNT(surr)	112.8
26-DNT	108.7
24-DNT	96.3
2-NT	104.5
4-NT	92.5
3-NT	108.0
PETN	107.1

*not
2/16/10*

Total 1686.1

Average 105.4

Sum = 1686.1

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216021a

Analysis Date: 17-FEB-10 03:00

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	579.243	97	
1,3-Dinitrobenzene-d4	500	497.509	100	
2,4,6-Trinitrotoluene	600	668.453	111	
2,4-Dinitrotoluene	600	630.739	105	
2,6-Dinitrotoluene	600	632.433	105	
2,6-Dinitrotoluene-d3	500	485.976	97	
2-Amino-4,6-dinitrotoluene	600	634.785	106	
3,4-Dinitrotoluene	300	327.796	109	
4-Amino-2,6-dinitrotoluene	600	562.441	94	
HMX	600	585.906	98	
Nitrobenzene	600	587.781	98	
PETN	600	627.186	105	
RDX	600	656.37	109	
Tetryl	600	543.324	91	
m-Dinitrobenzene	600	630.615	105	
m-Nitrotoluene	600	562.285	94	
o-Nitrotoluene	600	556.59	93	
p-Nitrotoluene	600	538.033	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:\MASSLYN\New_Exp_PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYN\NEW_EXP_PRO\Data\EXP0216021a

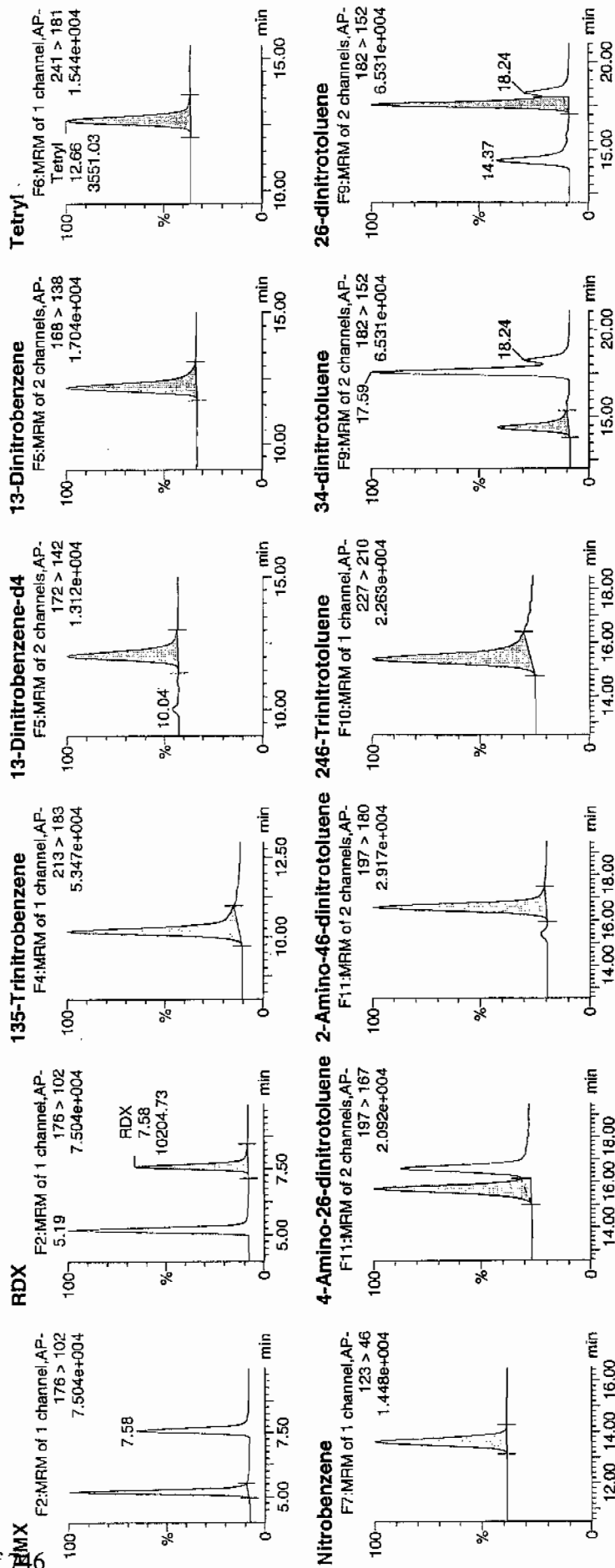
Date: 17-Feb-2010

Time: 03:00:59

ID: WXX100216-07CCV

Vial: 1:1,B

WXX
2/17/10

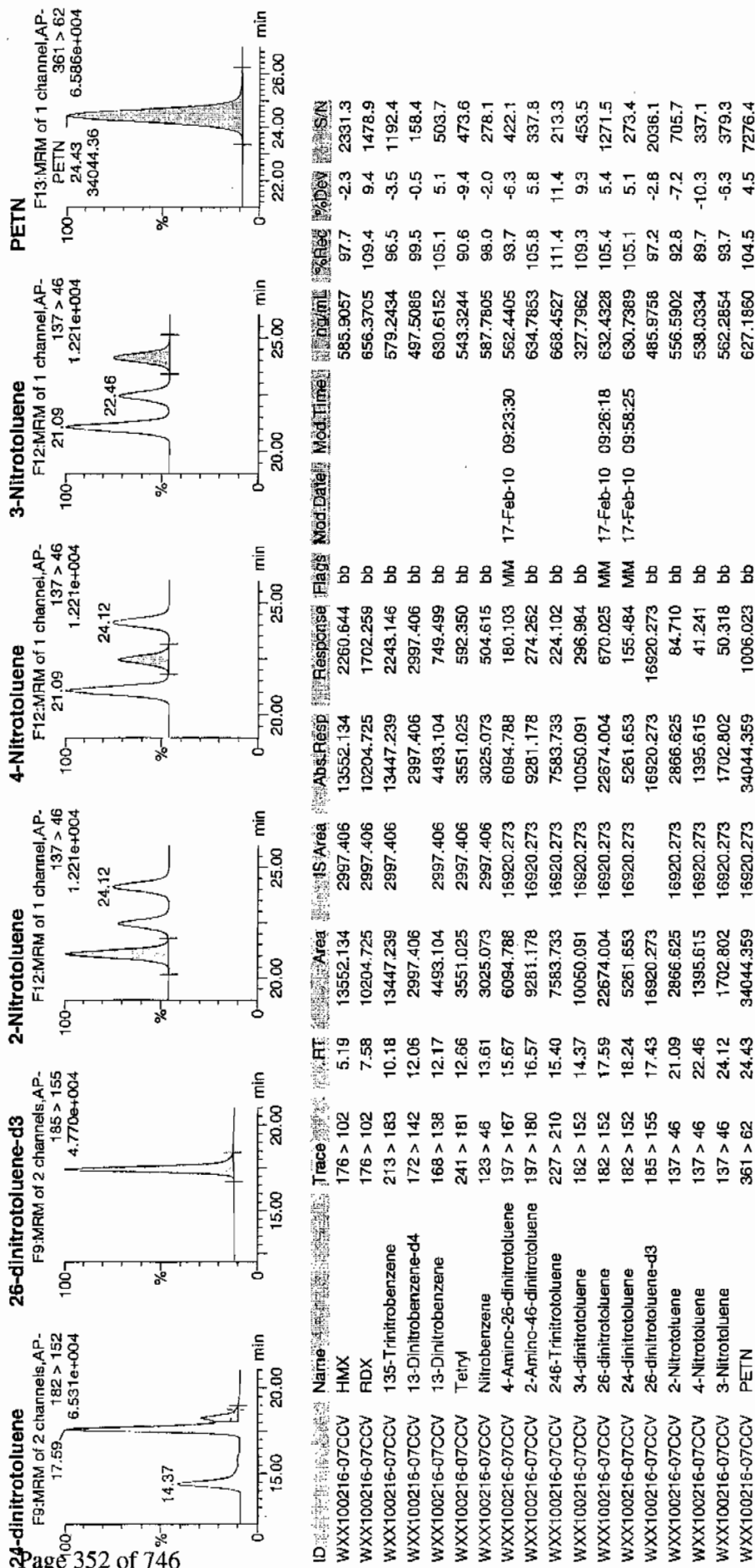


WXX
02/17/10

Printed: Wed Feb 17 10:00:54 2010, Page 42 of 59

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1021610expA.qld, Time: Wed Feb 17 10:00:06 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/17/10
 Time of Injection: 0300
 Standard Number: WXX100216-07CCV
 Data File: EXP0216021a

HMX	97.7
RDX	109.4
135-TNB	96.5
13-DNB	105.1
Tetryl	90.6
Nitrobenzene	98.0
4A-26-DNT	93.7
2A-46-DNT	105.8
246-TNT	111.4
34-DNT(surr)	109.3
26-DNT	105.4
24-DNT	105.1
2-NT	92.8
4-NT	89.7
3-NT	93.7
PETN	104.5

*WAT
2/17/10*

Total 1608.7

Average 100.5

WAT 2/17/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216023a

Analysis Date: 17-FEB-10 03:59

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	49.744	124	
1,3-Dinitrobenzene-d4	500	479.66	96	
2,4,6-Trinitrotoluene	40	35.851	90	
2,4-Dinitrotoluene	40	39.455	99	
2,6-Dinitrotoluene	40	41.064	103	
2,6-Dinitrotoluene-d3	500	491.1	98	
2-Amino-4,6-dinitrotoluene	40	38.066	95	
3,4-Dinitrotoluene	20	21.18	106	
4-Amino-2,6-dinitrotoluene	40	45.31	113	
HMX	40	40.495	101	
Nitrobenzene	40	46.027	115	
PETN	40	46.88	117	
RDX	40	40.003	100	
Tetryl	40	46.382	116	
m-Dinitrobenzene	40	47.022	118	
m-Nitrotoluene	40	34.333	86	
o-Nitrotoluene	40	37.918	95	
p-Nitrotoluene	40	33.624	84	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 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\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216023a

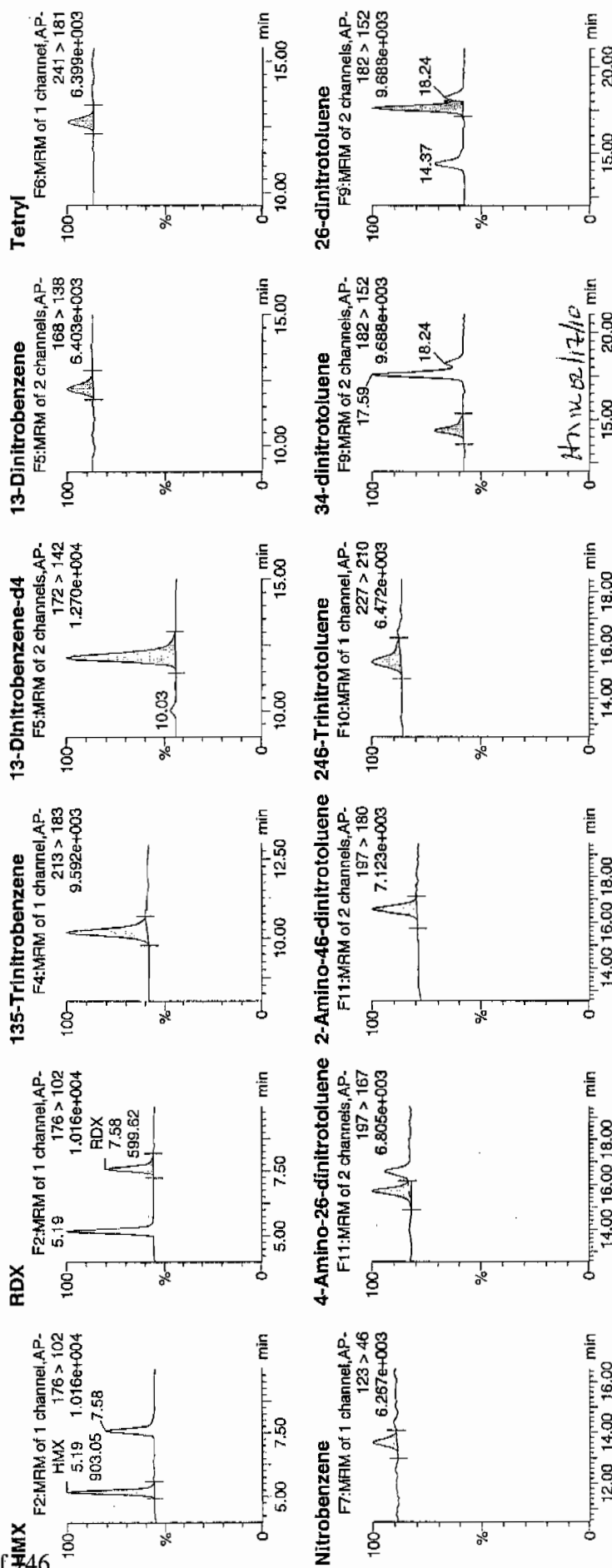
Date: 17-Feb-2010

Time: 03:59:56

ID: WXX100216-08CRI

Mat: 1:1,C

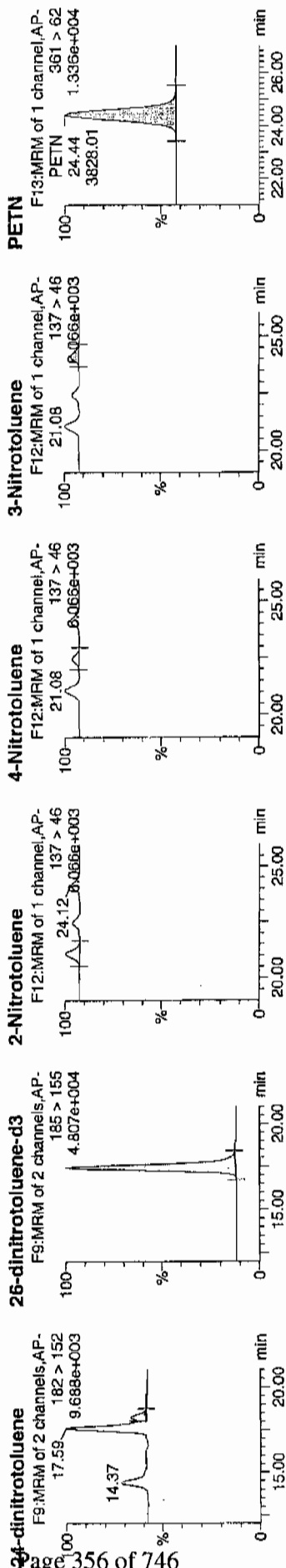
17/2/10



Printed: Wed Feb 17 10:00:54 2010, Page 46 of 59

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Intgrl	%Rec	%Dev	SN
WXX100216-08CRI	HMX	176 > 102	5.19	903.051	2889.872	903.051	156.244	bb		40.4948	101.2	1.2	129.0
WXX100216-08CRI	RDX	176 > 102	7.58	599.616	2889.872	599.618	103.745	bb		40.0027	100.0	0.0	71.5
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.18	1113.391	2889.872	1113.391	192.637	bb		49.7442	124.4	24.4	149.0
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	2889.872	2889.872	2889.872	2889.872	bb		479.6602	95.9	-4.1	417.1
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.20	323.009	2889.872	323.009	55.886	bb		47.0218	117.6	17.6	49.9
WXX100216-08CRI	Tetryl	241 > 181	12.66	292.267	2889.872	292.267	50.567	bb		46.3823	116.0	16.0	23.4
WXX100216-08CRI	Nitrobenzene	123 > 46	13.61	228.386	2889.872	228.386	39.515	bb		46.0273	115.1	15.1	23.5
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	496.172	17098.684	496.172	14.509	MM	17-Feb-10 09:23:37	45.3101	113.3	13.3	43.7
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.57	562.424	17098.684	562.424	16.446	bb		38.0656	95.2	-4.8	54.4
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.37	411.028	17098.684	411.028	12.019	bb		35.8512	89.6	-10.4	34.7
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.37	656.211	17098.684	656.211	19.189	bb		21.1798	105.9	5.9	25.2
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.59	1487.743	17098.684	1487.743	43.505	MM	17-Feb-10 09:26:28	41.0638	102.7	2.7	76.0
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.24	332.609	17098.684	332.609	9.726	MM	17-Feb-10 09:58:34	39.4554	98.6	-1.4	15.9
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.43	17098.684	17098.684	17098.684	17098.684	bb		491.1000	98.2	-1.8	1844.2
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.08	197.351	17098.684	197.351	5.771	bb		37.9183	94.8	-5.2	50.3
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.44	88.137	17098.684	88.137	2.577	bb		33.6238	84.1	-15.9	24.1
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.12	105.069	17098.684	105.069	3.072	bb		34.3330	85.8	-14.2	27.3
WXX100216-08CRI	PETN	361 > 62	24.44	3828.005	17098.684	3828.005	111.939	bb		46.8804	117.2	17.2	698.1

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/17/10
 Time of Injection 0359
 Standard Number WXX100216-08CRI
 Data File EXP0216023a

HMX	101.2
RDX	100.0
135-TNB	124.4
13-DNB	117.6
Tetryl	116.0
Nitrobenzene	115.1
4A-26-DNT	113.3
2A-46-DNT	95.2
246-TNT	89.6
34-DNT(surr)	105.9
26-DNT	102.7
24-DNT	98.6
2-NT	94.8
4-NT	84.1
3-NT	85.8
PETN	117.2

Handwritten: 4/17/10

Total 1661.5

Average 103.8

Handwritten: 4/17/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216027a

Analysis Date: 17-FEB-10 05:58

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	300	336.279	112	
4-Amino-2,6-dinitrotoluene	600	604.644	101	
HMX	600	612.626	102	
Nitrobenzene	600	578.267	96	
PETN	600	723.944	121	*
RDX	600	659.537	110	
Tetryl	600	567.895	95	
m-Dinitrobenzene	600	622.089	104	
m-Nitrotoluene	600	628.032	105	
o-Nitrotoluene	600	608.219	101	
p-Nitrotoluene	600	603.723	101	
1,3,5-Trinitrobenzene	600	611.171	102	
1,3-Dinitrobenzene-d4	500	441.467	88	
2,4,6-Trinitrotoluene	600	677.667	113	
2,4-Dinitrotoluene	600	637.719	106	
2,6-Dinitrotoluene	600	636.41	106	
2,6-Dinitrotoluene-d3	500	422.753	85	
2-Amino-4,6-dinitrotoluene	600	651.036	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216027a

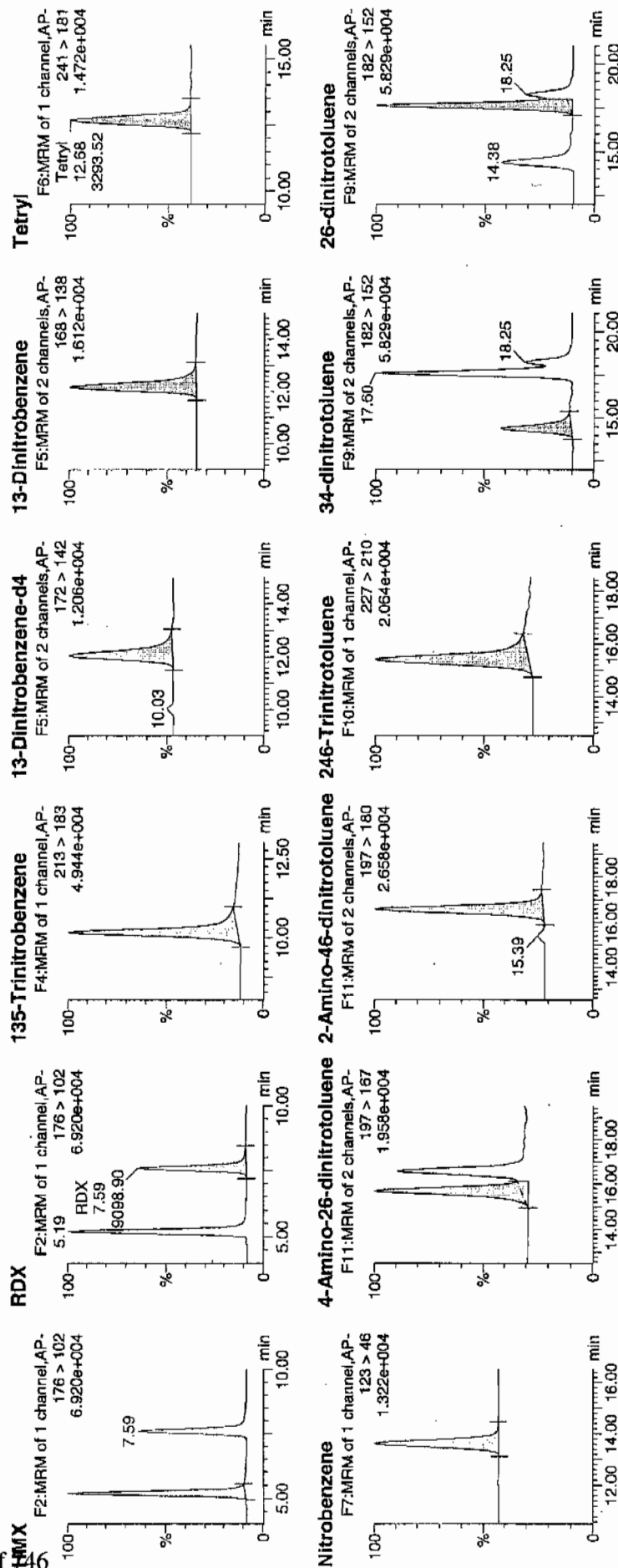
Date: 17-Feb-2010

Time: 05:58:23

99: WXX100216-07CCV

Val: 1:1,B

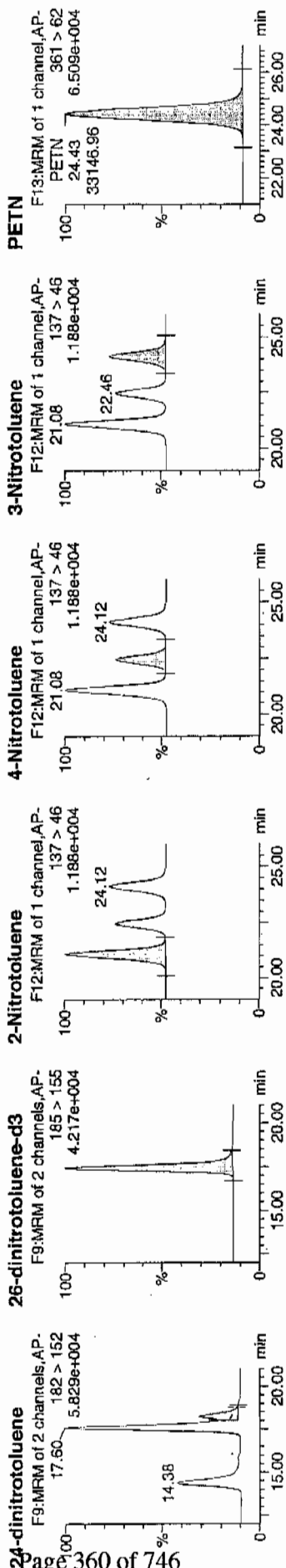
Handwritten: *1/17/10*



Handwritten: *1/17/10*

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA.qld, Time: Wed Feb 17 10:00:06 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int/mL	%Rec	%Dev	SN
WXX100216-07CCV	HMX	176 > 102	5.19	12573.983	2659.764	12573.983	2363.740	bb			612.6259	102.1	2.1	1867.4
WXX100216-07CCV	RDX	176 > 102	7.59	9098.897	2659.764	9098.897	1710.471	bb			659.5367	109.9	9.9	1136.2
WXX100216-07CCV	135-Trinitrobenzene	213 > 183	10.18	12590.188	2659.764	12590.188	2366.787	bb			611.1709	101.9	1.9	720.5
WXX100216-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	2659.764	2659.764	2659.764	2659.764	bb			441.4669	88.3	-11.7	384.7
WXX100216-07CCV	13-Dinitrobenzene	168 > 138	12.17	3933.075	2659.764	3933.075	739.365	bb			622.0892	103.7	3.7	572.6
WXX100216-07CCV	Tetryl	241 > 181	12.68	3293.519	2659.764	3293.519	619.137	bb			567.8961	94.6	-5.4	186.1
WXX100216-07CCV	Nitrobenzene	123 > 46	13.63	2640.866	2659.764	2640.866	496.447	bb			578.2667	96.4	-3.6	244.7
WXX100216-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	5699.717	14719.028	5699.717	193.617	MM	17-Feb-10	09:24:07	604.6437	100.8	0.8	191.5
WXX100216-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.58	8280.438	14719.028	8280.438	281.283	bb			651.0364	108.5	8.5	208.4
WXX100216-07CCV	246-Trinitrotoluene	227 > 210	15.41	6688.060	14719.028	6688.060	227.191	bb			677.6666	112.9	12.9	176.3
WXX100216-07CCV	34-dinitrotoluene	182 > 152	14.38	8968.860	14719.028	8968.860	304.669	bb			336.2788	112.1	12.1	355.9
WXX100216-07CCV	26-dinitrotoluene	182 > 152	17.60	19848.275	14719.028	19848.275	674.239	MM	17-Feb-10	09:27:00	636.4103	106.1	6.1	997.2
WXX100216-07CCV	24-dinitrotoluene	182 > 152	18.25	4627.791	14719.028	4627.791	157.204	MM	17-Feb-10	09:59:44	637.7191	106.3	6.3	221.0
WXX100216-07CCV	26-dinitrotoluene-d3	185 > 155	17.42	14719.028	14719.028	14719.028	14719.028	bb			422.7527	84.6	-15.4	873.5
WXX100216-07CCV	2-Nitrotoluene	137 > 46	21.08	2725.003	14719.028	2725.003	92.567	bb			608.2189	101.4	1.4	310.4
WXX100216-07CCV	4-Nitrotoluene	137 > 46	22.46	1362.278	14719.028	1362.278	46.276	bb			603.7228	100.6	0.6	155.4
WXX100216-07CCV	3-Nitrotoluene	137 > 46	24.12	1654.478	14719.028	1654.478	56.202	bb			628.0322	104.7	4.7	174.3
WXX100216-07CCV	PETN	361 > 62	24.43	33146.961	14719.028	33146.961	1125.990	bb			723.9440	120.7	20.7	4875.3

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/17/10
 Time of Injection: 0558
 Standard Number: WXX100216-07CCV
 Data File: EXP0216027a

HMX	102.1
RDX	109.9
135-TNB	101.9
13-DNB	103.7
Tetryl	94.6
Nitrobenzene	96.4
4A-26-DNT	100.8
2A-46-DNT	108.5
246-TNT	112.9
34-DNT(surr)	112.1
26-DNT	106.1
24-DNT	106.3
2-NT	101.4
4-NT	100.6
3-NT	104.7
PETN	120.7

Handwritten: 100.7
2/17/10

Total 1682.7

Average 105.2

Handwritten: 100.7 or 105.2

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216029a

Analysis Date: 17-FEB-10 06:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	42.003	105	
3,4-Dinitrotoluene	20	22.85	114	
4-Amino-2,6-dinitrotoluene	40	35.28	88	
HMX	40	35.563	89	
Nitrobenzene	40	35.31	88	
PETN	40	48.188	120	
RDX	40	37.715	94	
Tetryl	40	38.583	96	
m-Dinitrobenzene	40	47.424	119	
m-Nitrotoluene	40	37.561	94	
o-Nitrotoluene	40	37.519	94	
p-Nitrotoluene	40	38.529	96	
1,3,5-Trinitrobenzene	40	46.171	115	
1,3-Dinitrobenzene-d4	500	512.607	103	
2,4,6-Trinitrotoluene	40	37.982	95	
2,4-Dinitrotoluene	40	44.51	111	
2,6-Dinitrotoluene	40	42.325	106	
2,6-Dinitrotoluene-d3	500	468.417	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA.qtd, Time: Wed Feb 17 10:00:06 2010

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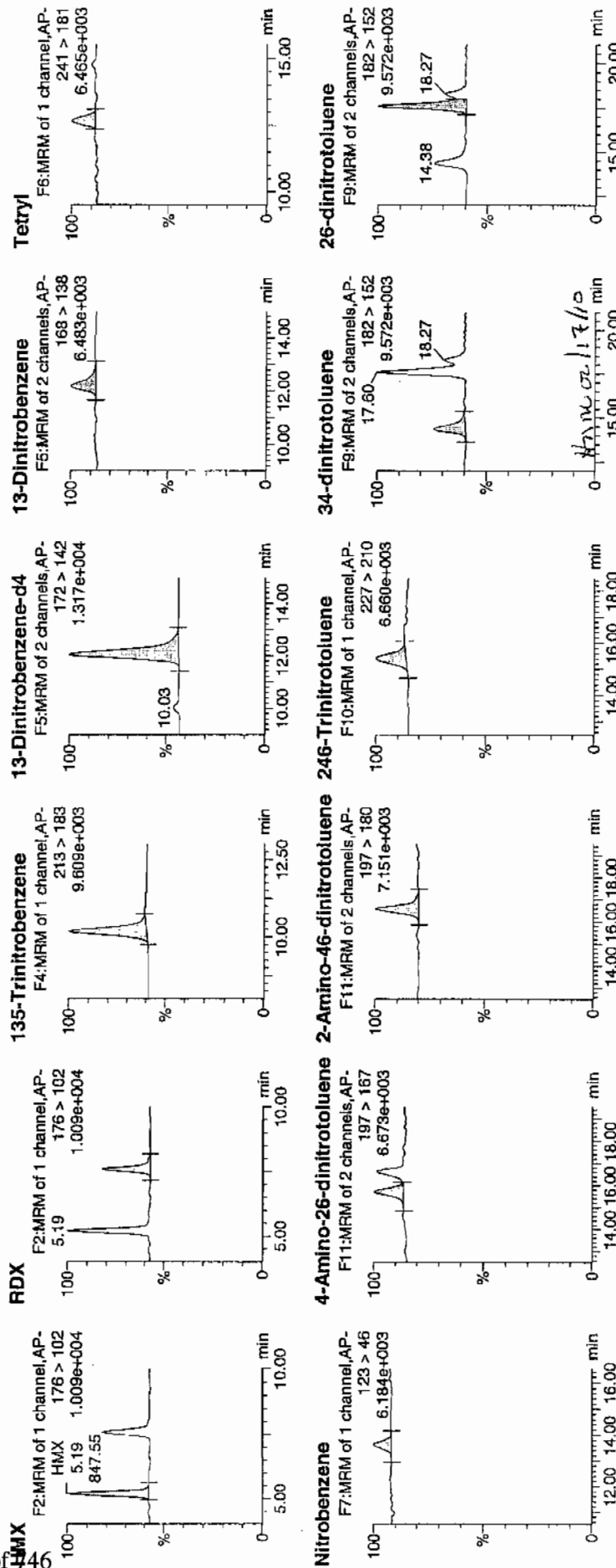
Date: 17-Feb-2010

Time: 06:57:50

ID: WXX100216-08CRI

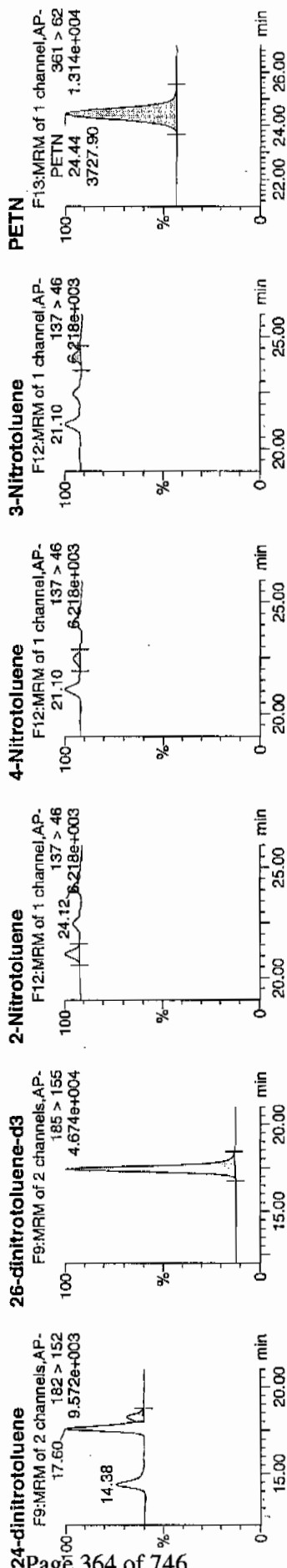
Anal: 1:1,C

WXX
2/17/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA.qld, Time: Wed Feb 17 10:00:06 2010



ID	Name	Trace	RT	Area	IS:Area	Abs:Resp	Response	Flags	Mod:Time	Mod:Date	Mod:Time	Mod:Date	%Rec	Area	SN
WXX100216-08CRI	HMX	176 > 102	5.19	847.548	3088.373	847.548	137.216	bb					88.9	-11.1	67.2
WXX100216-08CRI	RDX	176 > 102	7.59	604.150	3088.373	604.150	97.810	bb					94.3	-5.7	40.2
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.18	1104.404	3088.373	1104.404	178.800	bb					115.4	15.4	242.0
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	3088.373	3088.373	3088.373	3088.373	bb					102.5	2.5	183.7
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.17	348.146	3088.373	348.146	56.364	bb					118.6	18.6	32.0
WXX100216-08CRI	Tetryl	241 > 181	12.68	259.818	3088.373	259.818	42.064	bb					96.5	-3.5	17.3
WXX100216-08CRI	Nitrobenzene	123 > 46	13.63	187.241	3088.373	187.241	30.314	bb					88.3	-11.7	24.4
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	368.489	16308.923	368.489	11.297	MM	17-Feb-10	09:24:15			88.2	-11.8	20.6
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	591.929	16308.923	591.929	18.147	bb					105.0	5.0	42.9
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.41	415.344	16308.923	415.344	12.734	bb					95.0	-5.0	34.9
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.38	675.250	16308.923	675.250	20.702	bb					114.2	14.2	40.8
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.60	1462.626	16308.923	1462.626	44.841	MM	17-Feb-10	09:27:06			105.8	5.8	114.5
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.27	357.891	16308.923	357.891	10.972	MM	17-Feb-10	09:59:53			111.3	11.3	25.2
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	16308.923	16308.923	16308.923	16308.923	bb					93.7	-6.3	1631.2
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.10	186.251	16308.923	186.251	5.710	bb					93.8	-6.2	60.9
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.46	96.329	16308.923	96.329	2.953	bb					96.3	-3.7	29.1
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.12	109.637	16308.923	109.637	3.361	bb					93.9	-6.1	32.5
WXX100216-08CRI	PETN	361 > 62	24.44	3727.896	16308.923	3727.896	114.290	bb					120.5	20.5	1683.7

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/17/10
 Time of Injection 0657
 Standard Number WXX100216-08CRI
 Data File EXP0216029a

HMX	88.9
RDX	94.3
135-TNB	115.4
13-DNB	118.6
Tetryl	96.5
Nitrobenzene	88.3
4A-26-DNT	88.2
2A-46-DNT	105.0
246-TNT	95.0
34-DNT(surr)	114.2
26-DNT	105.8
24-DNT	111.3
2-NT	93.8
4-NT	96.3
3-NT	93.9
PETN	120.5

Handwritten: 4/2/10

Total 1626.0

Average 101.6

Handwritten: HMX-02/17/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216039a

Analysis Date: 17-FEB-10 11:55

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	585.479	98	
1,3-Dinitrobenzene-d4	500	387.961	78	*
2,4,6-Trinitrotoluene	600	707.346	118	
2,4-Dinitrotoluene	600	645.209	108	
2,6-Dinitrotoluene	600	613.479	102	
2,6-Dinitrotoluene-d3	500	403.474	81	
2-Amino-4,6-dinitrotoluene	600	628.06	105	
3,4-Dinitrotoluene	300	337.542	113	
4-Amino-2,6-dinitrotoluene	600	652.842	109	
HMX	600	593.956	99	
Nitrobenzene	600	632.339	105	
PETN	600	805.557	134	*
RDX	600	659.382	110	
Tetryl	600	551.825	92	
m-Dinitrobenzene	600	625.313	104	
m-Nitrotoluene	600	627.48	105	
o-Nitrotoluene	600	662.654	110	
p-Nitrotoluene	600	651.214	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216039a

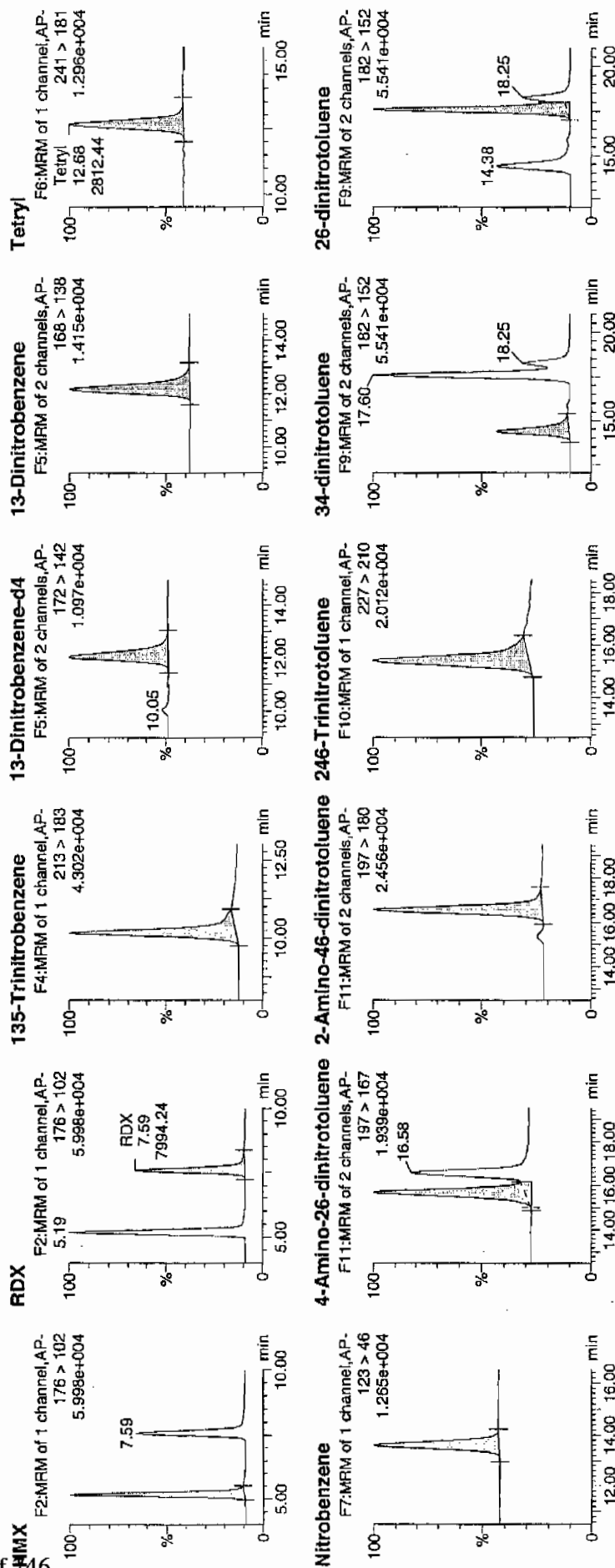
Date: 17-Feb-2010

Time: 11:55:13

ID: WXX100216-07CCV

Vial: 1:1,B

4/3/10

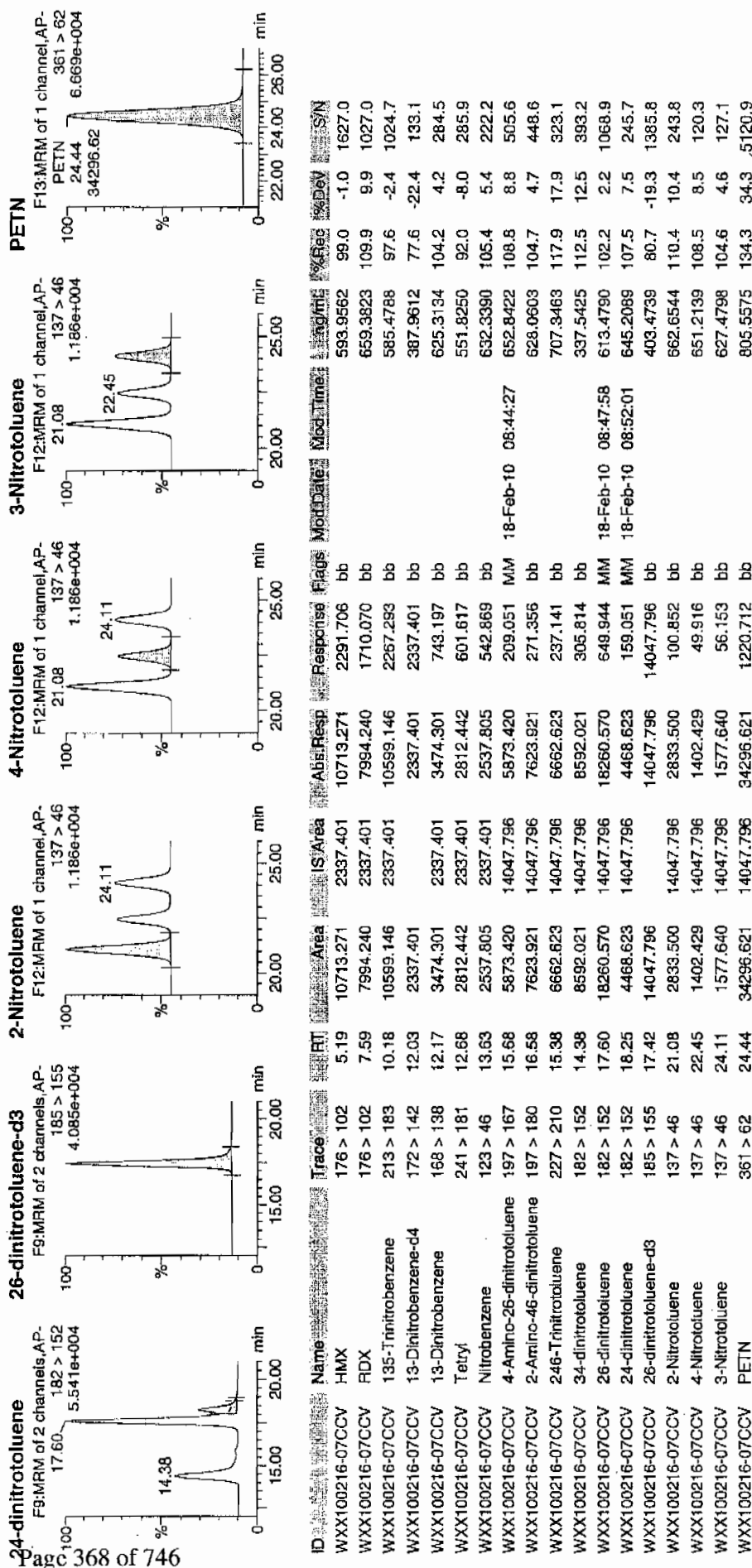


4/3/10

Printed: Thu Feb 18 08:53:51 2010, Page 20 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PROV021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/17/10
 Time of Injection: 1155
 Standard Number: WXX100216-07CCV
 Data File: EXP0216039a

HMX	99.0
RDX	109.9
135-TNB	97.6
13-DNB	104.2
Tetryl	92.0
Nitrobenzene	105.4
4A-26-DNT	108.8
2A-46-DNT	104.7
246-TNT	117.9
34-DNT(surr)	112.5
26-DNT	102.2
24-DNT	107.5
2-NT	110.4
4-NT	108.5
3-NT	104.6
PETN	134.3

*not
2/18/10*

Total 1719.5

Average 107.5

sum 02-18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216041a

Analysis Date: 17-FEB-10 12:54

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	40	46.625	117	
1,3,5-Trinitrobenzene	40	49.958	125	
1,3-Dinitrobenzene-d4	500	436.567	87	
2,4,6-Trinitrotoluene	40	33.868	85	
2,4-Dinitrotoluene	40	48.789	122	
2,6-Dinitrotoluene	40	42.876	107	
2,6-Dinitrotoluene-d3	500	442.639	89	
2-Amino-4,6-dinitrotoluene	40	38.248	96	
3,4-Dinitrotoluene	20	20.64	103	
4-Amino-2,6-dinitrotoluene	40	36.085	90	
HMX	40	43.087	108	
Nitrobenzene	40	41.223	103	
PETN	40	49.973	125	
RDX	40	39.872	100	
Tetryl	40	51.62	129	
m-Dinitrobenzene	40	47.407	119	
m-Nitrotoluene	40	45.574	114	
o-Nitrotoluene	40	37.868	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\021610expA1.qtd, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216041a

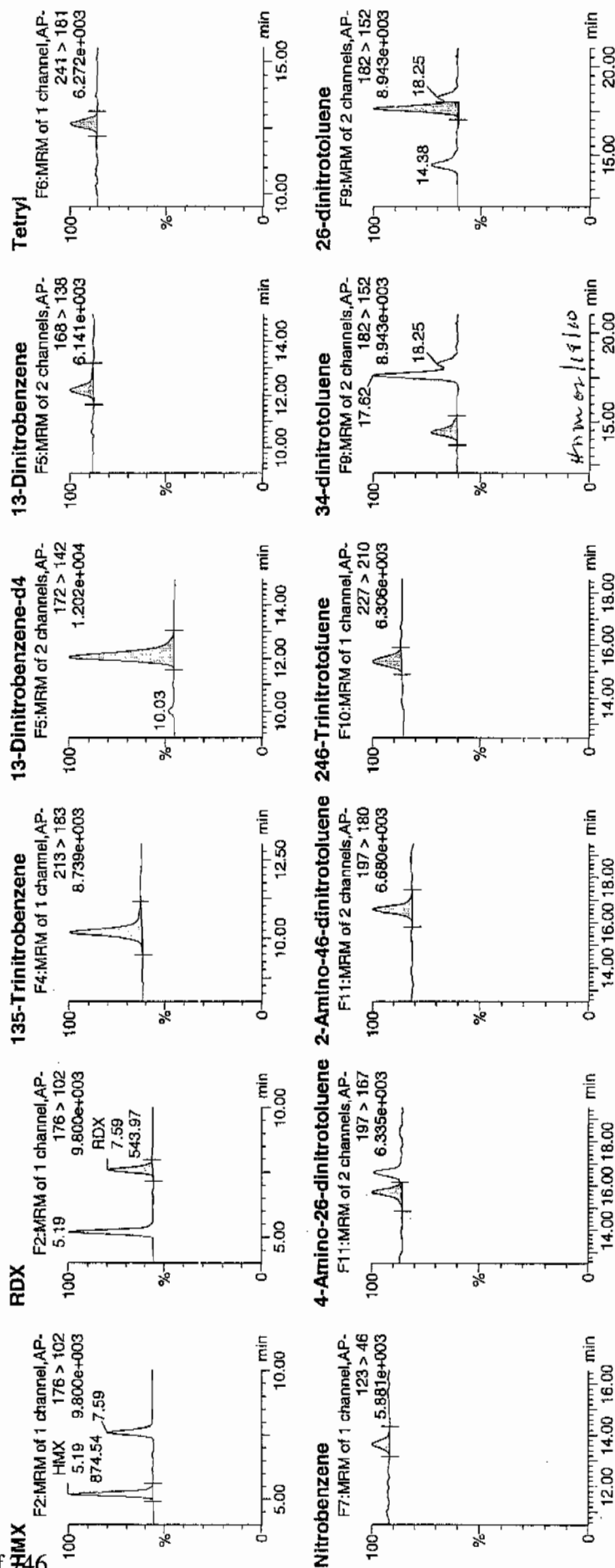
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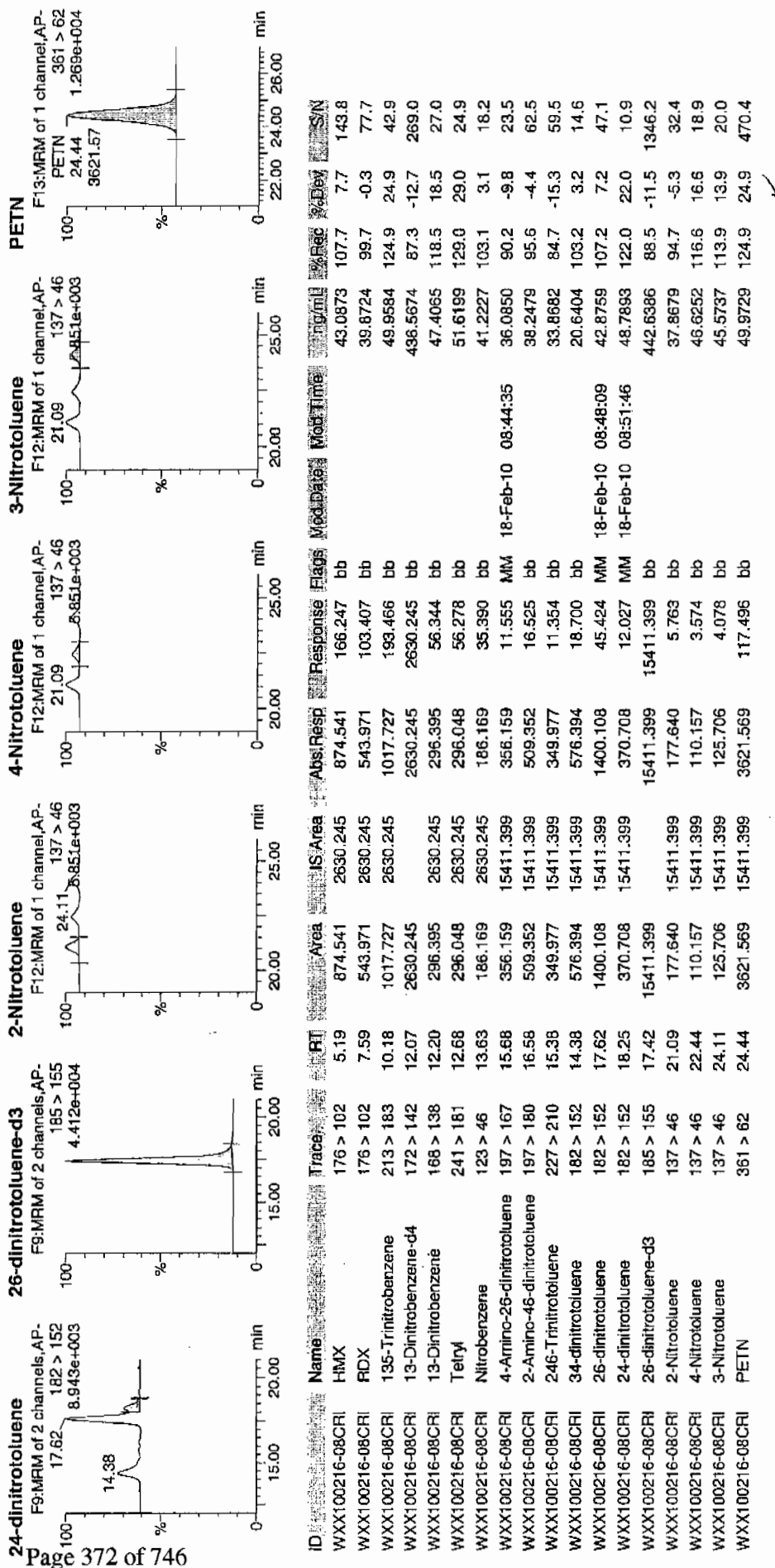
ID: WXX100216-08CRI

Vial: 1:1,C

AP
2/18/10



Dataset: C:\MASSLYNX\New_Exp\PROX021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/17/10
 Time of Injection 1254
 Standard Number WXX100216-08CRI
 Data File EXP0216041a

HMX	107.7
RDX	99.7
135-TNB	124.9
13-DNB	118.5
Tetryl	129.0
Nitrobenzene	103.1
4A-26-DNT	90.2
2A-46-DNT	95.6
246-TNT	84.7
34-DNT(surr)	103.2
26-DNT	107.2
24-DNT	122.0
2-NT	94.7
4-NT	116.6
3-NT	113.9
PETN	124.9

*WTF
2/18/10*

Total 1735.9

Average 108.5

Time 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216052a

Analysis Date: 17-FEB-10 18:20

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
p-Nitrotoluene	600	528.568	88	
1,3,5-Trinitrobenzene	600	586.393	98	
1,3-Dinitrobenzene-d4	500	469.603	94	
2,4,6-Trinitrotoluene	600	667.732	111	
2,4-Dinitrotoluene	600	640.278	107	
2,6-Dinitrotoluene	600	617.89	103	
2,6-Dinitrotoluene-d3	500	472.936	95	
2-Amino-4,6-dinitrotoluene	600	700.294	117	
3,4-Dinitrotoluene	300	322.55	108	
4-Amino-2,6-dinitrotoluene	600	558.036	93	
HMX	600	526.292	88	
Nitrobenzene	600	561.562	94	
PETN	600	685.593	114	
RDX	600	615.154	103	
Tetryl	600	581.072	97	
m-Dinitrobenzene	600	614.714	102	
m-Nitrotoluene	600	522.1	87	
o-Nitrotoluene	600	521.805	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\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216052a

Date: 17-Feb-2010

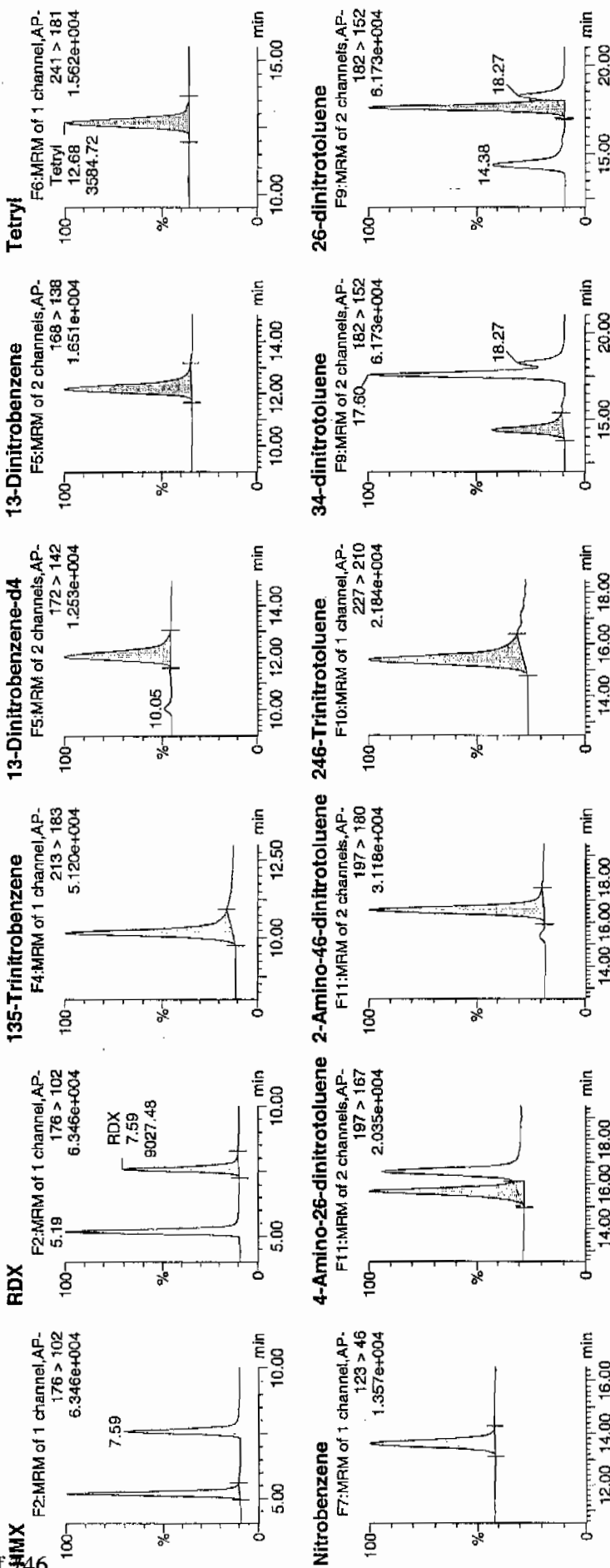
Time: 18:20:28

ID: WXX100216-07CCV

Al: 1:1,B

or

46

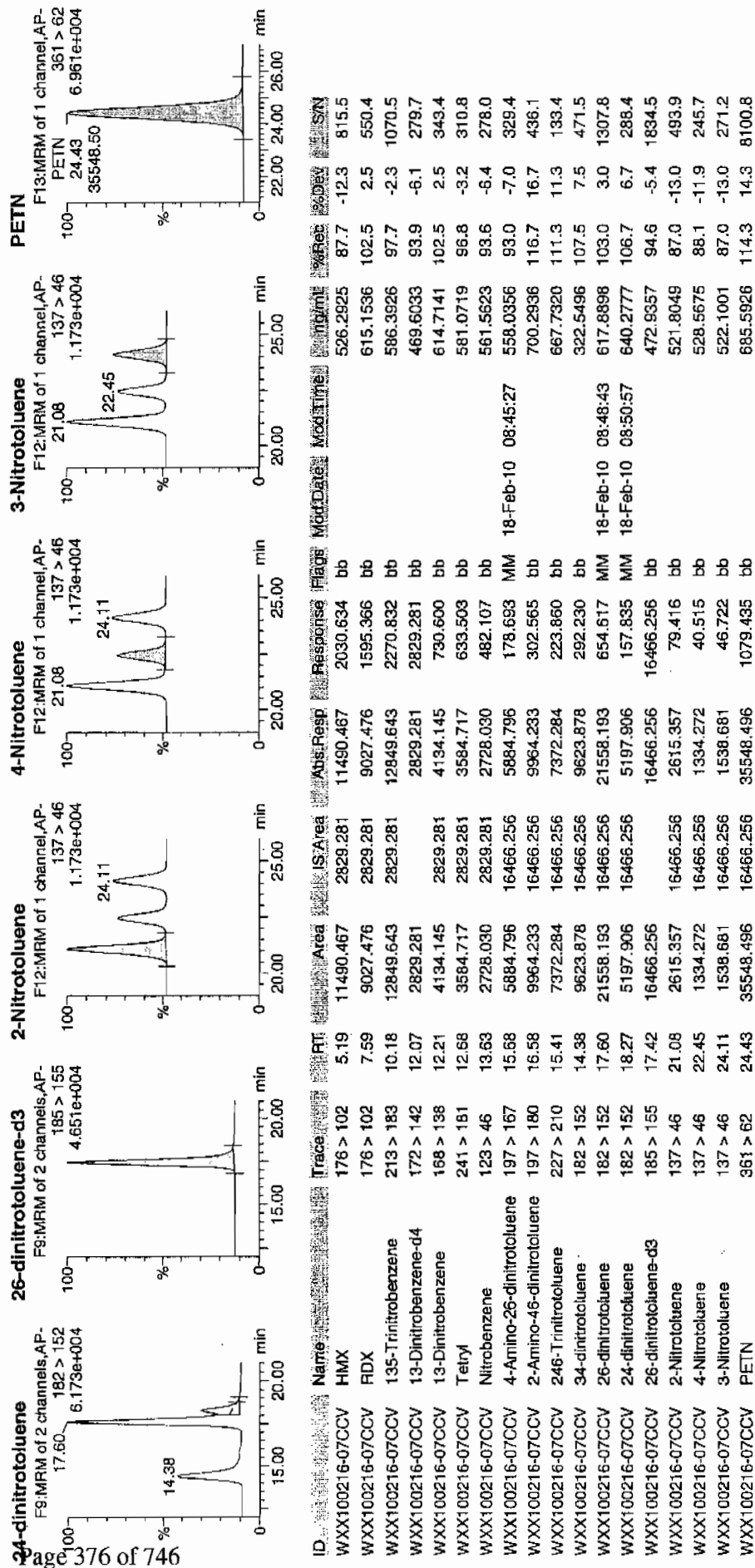


thru 02/18/10

Printed: Thu Feb 18 08:53:51 2010, Page 46 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/17/10
 Time of Injection: 1820
 Standard Number: WXX100216-07CCV
 Data File: EXP0216052a

HMX	87.7
RDX	102.5
135-TNB	97.7
13-DNB	102.5
Tetryl	96.8
Nitrobenzene	93.6
4A-26-DNT	93.0
2A-46-DNT	116.7
246-TNT	111.3
34-DNT(surr)	107.5
26-DNT	103.0
24-DNT	106.7
2-NT	87.0
4-NT	88.1
3-NT	87.0
PETN	114.3

MAT
 2/18/10

Total 1595.4

Average 99.7

4714.02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216054a

Analysis Date: 17-FEB-10 19:19

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	49.067	123	
1,3-Dinitrobenzene-d4	500	526.622	105	
2,4,6-Trinitrotoluene	40	45.215	113	
2,4-Dinitrotoluene	40	38.588	96	
2,6-Dinitrotoluene	40	43.371	108	
2,6-Dinitrotoluene-d3	500	482.623	97	
2-Amino-4,6-dinitrotoluene	40	45.806	115	
3,4-Dinitrotoluene	20	22.123	111	
4-Amino-2,6-dinitrotoluene	40	49.639	124	
HMX	40	43.201	108	
Nitrobenzene	40	41.456	104	
PETN	40	47.927	120	
RDX	40	45.793	114	
Tetryl	40	38.525	96	
m-Dinitrobenzene	40	46.393	116	
m-Nitrotoluene	40	35.588	89	
o-Nitrotoluene	40	43.751	109	
p-Nitrotoluene	40	34.462	86	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Printed: Thu Feb 18 08:53:51 2010, Page 49 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216054a

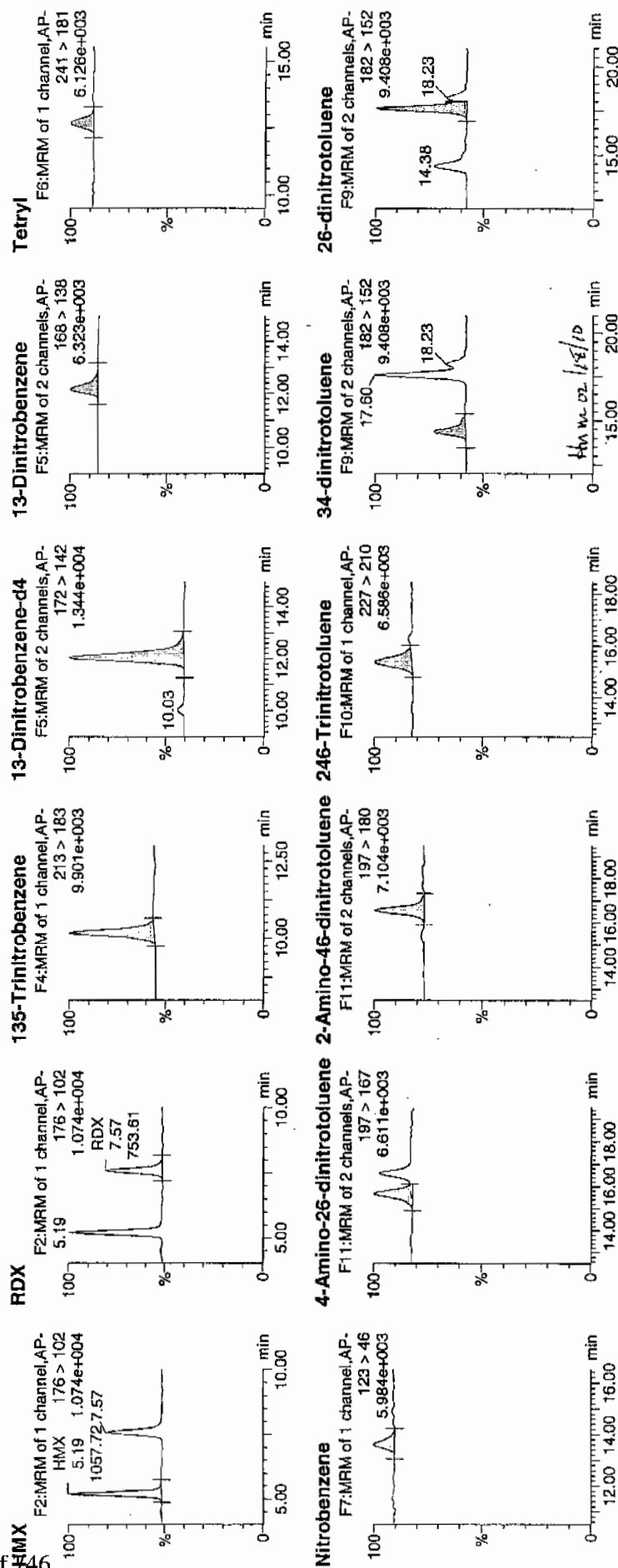
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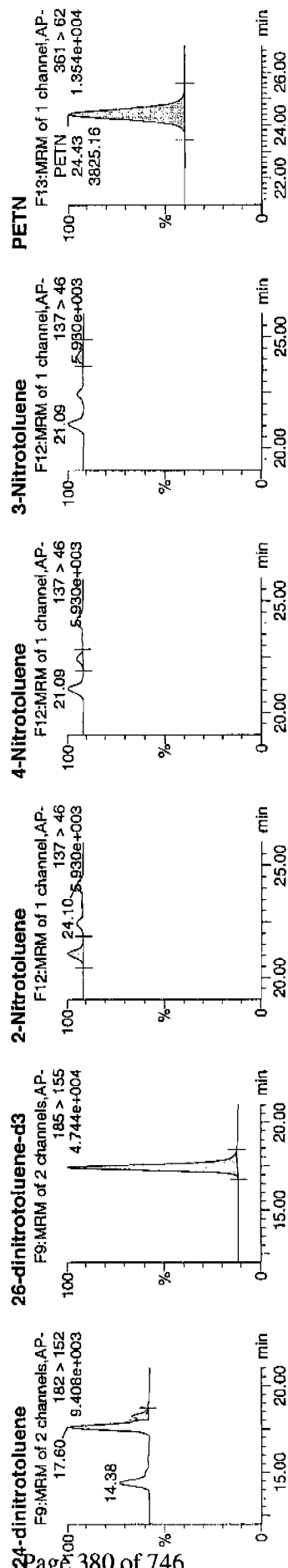
AP: WXX100216-08CRI

Vial: 1:1,C

WXX
2/18/10



Dataset: C:\MASSLYNX\New_Exp\PRO1021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Rec	Dev	SN
WXX100216-08CRI	HMV	176 > 102	5.19	1057.724	3172.809	1057.724	166.686	bb	43.2010	108.0	8.0	337.5	
WXX100216-08CRI	RDX	176 > 102	7.57	753.607	3172.809	753.607	118.760	bb	45.7925	114.5	14.5	206.1	
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.16	1205.768	3172.809	1205.768	190.016	bb	49.0674	122.7	22.7	83.7	
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	3172.809		3172.809	3172.809	bb	526.6220	105.3	5.3	217.3	
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.17	349.888	3172.809	349.888	55.139	bb	46.3926	116.0	16.0	58.6	
WXX100216-08CRI	Tetryl	241 > 181	12.68	266.522	3172.809	266.522	42.001	bb	38.5248	96.3	-3.7	16.4	
WXX100216-08CRI	Nitrobenzene	123 > 46	13.58	225.843	3172.809	225.843	35.590	bb	41.4560	103.6	3.6	30.2	
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	534.191	16803.529	534.191	15.895	MM	49.6388	124.1	24.1	30.5	
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	665.112	16803.529	665.112	19.791	bb	45.8063	114.5	14.5	84.8	
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.38	509.430	16803.529	509.430	15.158	bb	45.2146	113.0	13.0	71.3	
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.38	673.596	16803.529	673.596	20.043	bb	22.1228	110.6	10.6	46.6	
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.60	1544.212	16803.529	1544.212	45.949	MM	43.3711	108.4	8.4	133.2	
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.23	319.681	16803.529	319.681	9.512	MM	38.5879	96.5	-3.5	27.1	
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	16803.529		16803.529	16803.529	bb	482.6227	96.5	-3.5	1788.6	
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.09	223.779	16803.529	223.779	6.659	bb	43.7513	109.4	9.4	29.9	
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.42	88.774	16803.529	88.774	2.642	bb	34.4617	86.2	-13.8	12.3	
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.10	107.030	16803.529	107.030	3.185	bb	35.5861	89.0	-11.0	12.7	
WXX100216-08CRI	PETN	361 > 62	24.43	3825.164	16803.529	3825.164	113.820	bb	47.9269	119.8	19.8	958.7	

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/17/10
 Time of Injection 1919
 Standard Number WXX100216-08CRI
 Data File EXP0216054a

HMX	108.0
RDX	114.5
135-TNB	122.7
13-DNB	116.0
Tetryl	96.3
Nitrobenzene	103.6
4A-26-DNT	124.1
2A-46-DNT	114.5
246-TNT	113.0
34-DNT(surr)	110.6
26-DNT	108.4
24-DNT	96.5
2-NT	109.4
4-NT	86.2
3-NT	89.0
PETN	119.8

*WXX
2/18/10*

Total 1732.6

Average 108.3

WXX 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216065a

Analysis Date: 18-FEB-10 00:45

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	589.98	98	
1,3-Dinitrobenzene-d4	500	503.448	101	
2,4,6-Trinitrotoluene	600	674.628	112	
2,4-Dinitrotoluene	600	646.389	108	
2,6-Dinitrotoluene	600	642.938	107	
2,6-Dinitrotoluene-d3	500	484.848	97	
2-Amino-4,6-dinitrotoluene	600	685.308	114	
3,4-Dinitrotoluene	300	332.023	111	
4-Amino-2,6-dinitrotoluene	600	595.679	99	
HMX	600	685.513	114	
Nitrobenzene	600	619.311	103	
PETN	600	592.614	99	
RDX	600	694.615	116	
Tetryl	600	564.648	94	
m-Dinitrobenzene	600	607.21	101	
m-Nitrotoluene	600	591.803	99	
o-Nitrotoluene	600	604.859	101	
p-Nitrotoluene	600	605.824	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

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

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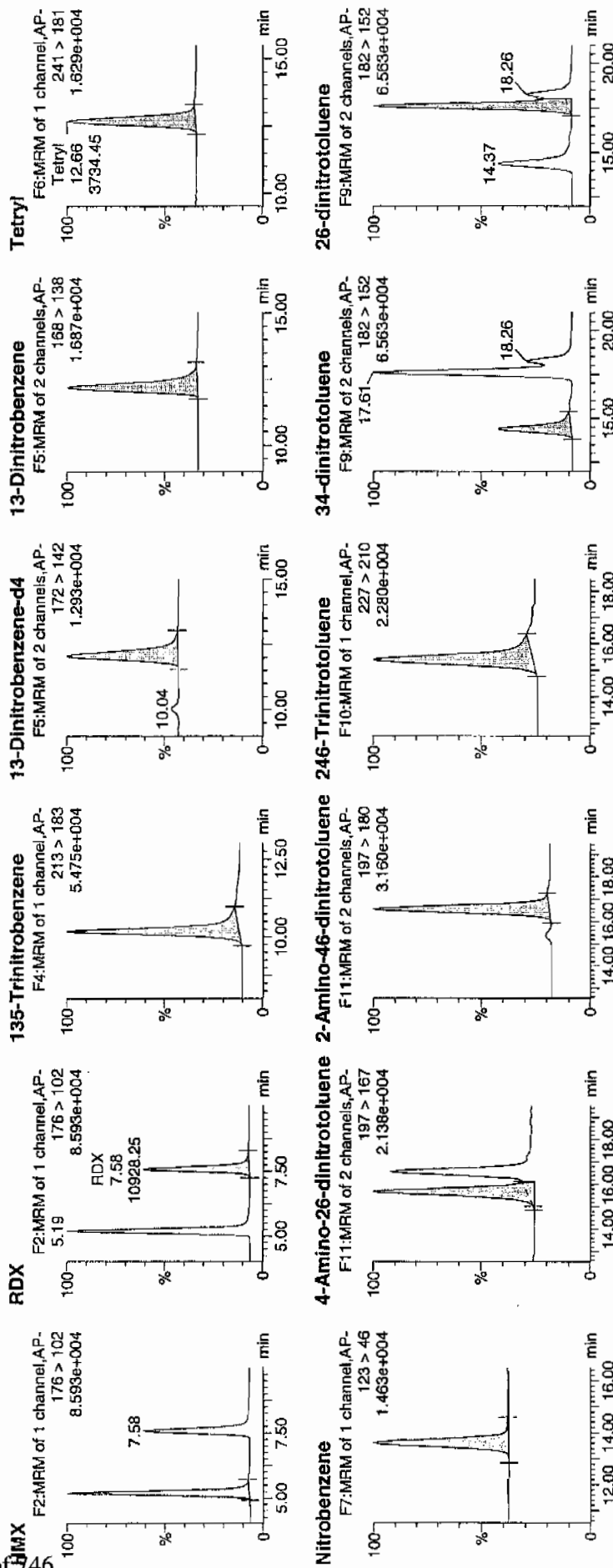
Date: 18-Feb-2010

Time: 00:45:20

ID: WXX100216-07CCV

Signal: 1:1,B

3 of 146

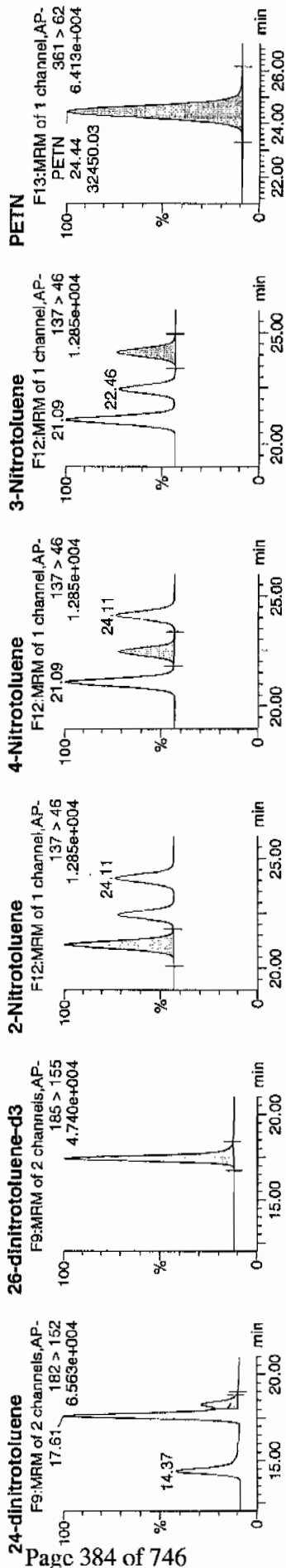


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Printed: Thu Feb 18 08:53:51 2010, Page 72 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSL\YXXNew_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int	% Rec	% Dev	S/N
WXX100216-07CCV	HMX	176 > 102	5.19	16045.377	3033.191	16045.377	2644.966	bb			685.5131	114.3	14.3	4796.8
WXX100216-07CCV	RDX	176 > 102	7.58	10928.254	3033.191	10928.254	1801.445	bb			694.6153	115.8	15.8	2791.9
WXX100216-07CCV	135-Trinitrobenzene	213 > 183	10.18	13860.002	3033.191	13860.002	2284.723	bb			589.9797	98.3	-1.7	651.9
WXX100216-07CCV	13-Dinitrobenzene-d4	172 > 142	12.06	3033.191	3033.191	3033.191	3033.191	bb			503.4482	100.7	0.7	211.0
WXX100216-07CCV	13-Dinitrobenzene	168 > 138	12.17	4377.993	3033.191	4377.993	721.681	bb			607.2099	101.2	1.2	1168.9
WXX100216-07CCV	Tetryl	241 > 181	12.66	3734.446	3033.191	3734.446	615.597	bb			564.6476	94.1	-5.9	245.8
WXX100216-07CCV	Nitrobenzene	123 > 46	13.61	3225.402	3033.191	3225.402	531.685	bb			619.3113	103.2	3.2	203.0
WXX100216-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.70	6439.984	16881.000	6439.984	190.747	MM	18-Feb-10	08:45:48	595.6786	99.3	-0.7	289.6
WXX100216-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.57	9996.612	16881.000	9996.612	296.091	bb			685.3080	114.2	14.2	311.7
WXX100216-07CCV	246-Trinitrotoluene	227 > 210	15.40	7636.027	16881.000	7636.027	226.172	bb			674.6279	112.4	12.4	330.2
WXX100216-07CCV	34-dinitrotoluene	182 > 152	14.37	10156.054	16881.000	10156.054	300.813	bb			332.0230	110.7	10.7	270.1
WXX100216-07CCV	26-dinitrotoluene	182 > 152	17.61	22997.145	16881.000	22997.145	681.155	MM	18-Feb-10	08:49:12	642.9383	107.2	7.2	748.4
WXX100216-07CCV	24-dinitrotoluene	182 > 152	18.26	5379.695	16881.000	5379.695	159.342	MM	18-Feb-10	08:50:31	646.3895	107.7	7.7	160.4
WXX100216-07CCV	26-dinitrotoluene-d3	185 > 155	17.43	16881.000	16881.000	16881.000	16881.000	bb			484.8478	97.0	-3.0	2282.6
WXX100216-07CCV	2-Nitrotoluene	137 > 46	21.09	3107.994	16881.000	3107.994	92.056	bb			604.8589	100.8	0.8	698.8
WXX100216-07CCV	4-Nitrotoluene	137 > 46	22.46	1567.810	16881.000	1567.810	46.437	bb			605.8236	101.0	1.0	345.9
WXX100216-07CCV	3-Nitrotoluene	137 > 46	24.11	1788.032	16881.000	1788.032	52.960	bb			591.8030	98.6	-1.4	366.6
WXX100216-07CCV	PETN	361 > 62	24.44	32450.031	16881.000	32450.031	961.141	bb			592.6141	98.8	-1.2	10378.5

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/18/10
 Time of Injection: 0045
 Standard Number: WXX100216-07CCV
 Data File: EXP0216065a

HMX	114.3
RDX	115.8
135-TNB	98.3
13-DNB	101.2
Tetryl	94.1
Nitrobenzene	103.2
4A-26-DNT	99.3
2A-46-DNT	114.2
246-TNT	112.4
34-DNT(surr)	110.7
26-DNT	107.2
24-DNT	107.7
2-NT	100.8
4-NT	101.0
3-NT	98.6
PETN	98.8

Not
2/18/10

Total 1677.6

Average 104.9

HMM 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216067a

Analysis Date: 18-FEB-10 01:44

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	40	31.977	80	
Nitrobenzene	40	28.466	71	
PETN	40	44.163	110	
RDX	40	37.7	94	
Tetryl	40	40.159	100	
m-Dinitrobenzene	40	38.48	96	
m-Nitrotoluene	40	33.219	83	
o-Nitrotoluene	40	44.575	111	
p-Nitrotoluene	40	37.562	94	
1,3,5-Trinitrobenzene	40	50.874	127	
1,3-Dinitrobenzene-d4	500	574.253	115	
2,4,6-Trinitrotoluene	40	44.52	111	
2,4-Dinitrotoluene	40	35.748	89	
2,6-Dinitrotoluene	40	41.094	103	
2,6-Dinitrotoluene-d3	500	534.755	107	
2-Amino-4,6-dinitrotoluene	40	37.567	94	
3,4-Dinitrotoluene	20	20.903	105	
4-Amino-2,6-dinitrotoluene	40	37.482	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216067a

Date: 18-Feb-2010

Time: 01:44:38

ID: WXX100216-08CRI

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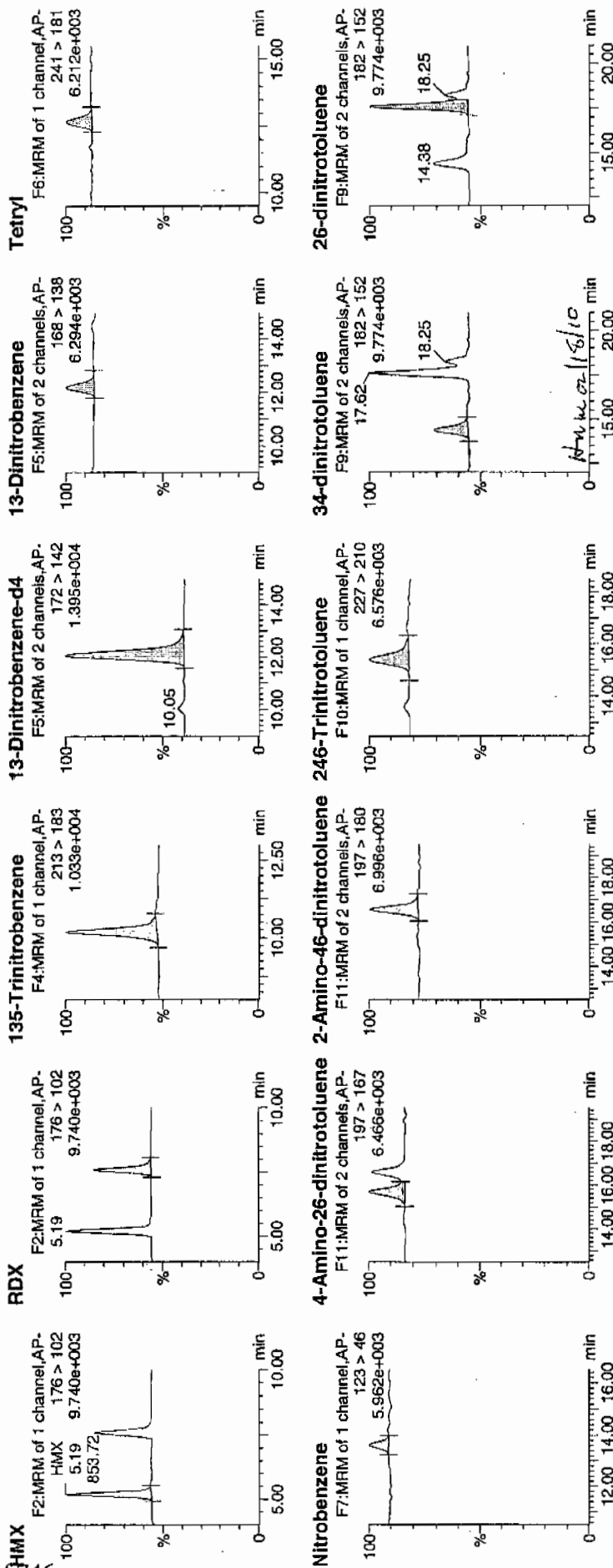
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3/1/10

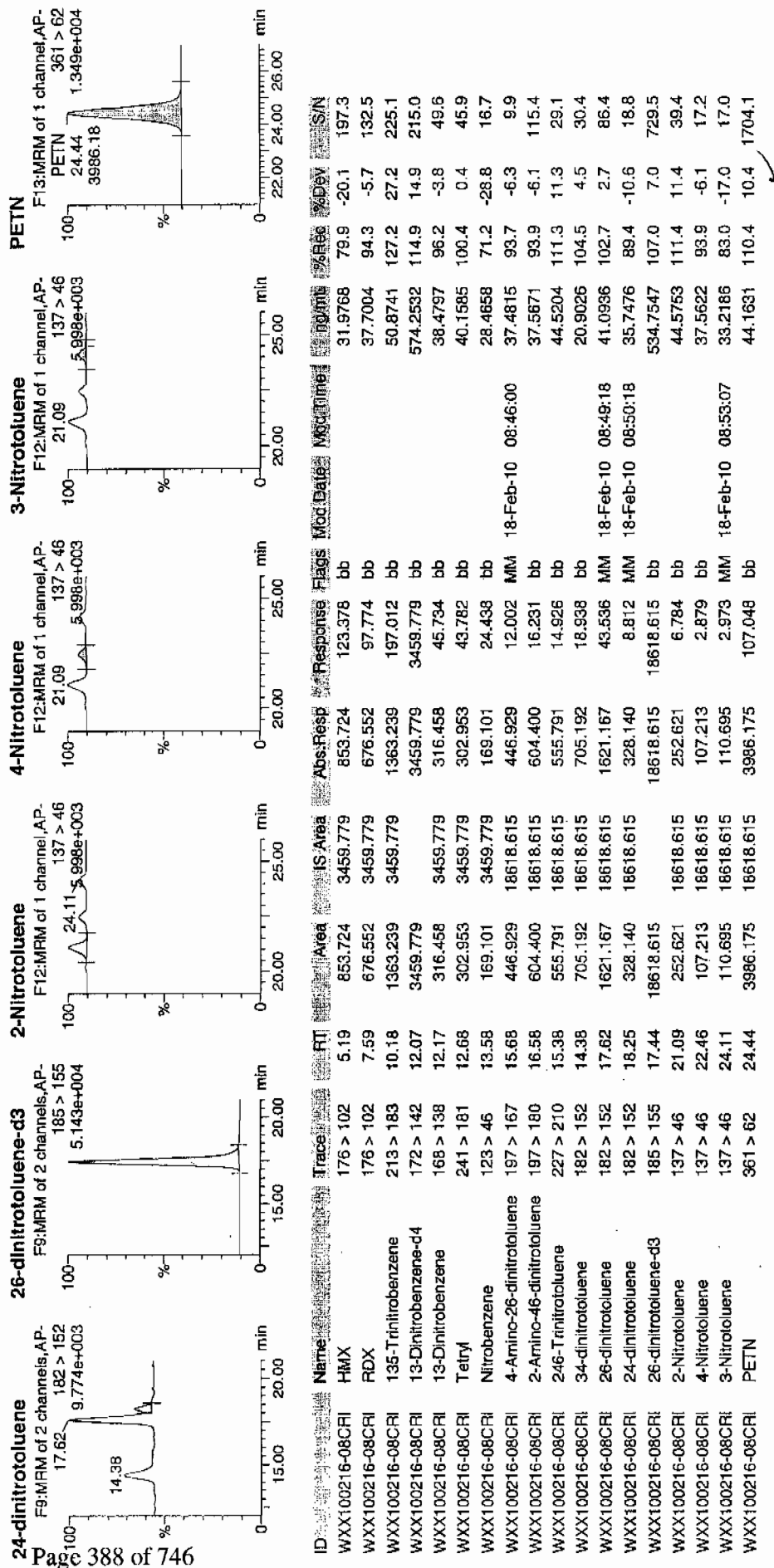
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3/1/10

3/1/10



Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/18/10
 Time of Injection 0144
 Standard Number WXX100216-08CRI
 Data File EXP0216067a

HMX	79.9
RDX	94.3
135-TNB	127.2
13-DNB	96.2
Tetryl	100.4
Nitrobenzene	71.2
4A-26-DNT	93.7
2A-46-DNT	93.9
246-TNT	111.3
34-DNT(surr)	104.5
26-DNT	102.7
24-DNT	89.4
2-NT	111.4
4-NT	93.9
3-NT	83.0
PETN	110.4

MAF
2/18/10

Total 1563.4

Average 97.7

Time 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216078a

Analysis Date: 18-FEB-10 07:10

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
IMX	600	519.274	87	
Nitrobenzene	600	504.757	84	
PETN	600	715.342	119	
RDX	600	628.868	105	
Tetryl	600	541.018	90	
m-Dinitrobenzene	600	590.189	98	
m-Nitrotoluene	600	537.034	90	
o-Nitrotoluene	600	576.847	96	
p-Nitrotoluene	600	589.034	98	
1,3,5-Trinitrobenzene	600	520.611	87	
1,3-Dinitrobenzene-d4	500	542.41	108	
2,4,6-Trinitrotoluene	600	648.856	108	
2,4-Dinitrotoluene	600	647.037	108	
2,6-Dinitrotoluene	600	629.886	105	
2,6-Dinitrotoluene-d3	500	468.716	94	
2-Amino-4,6-dinitrotoluene	600	615.257	103	
3,4-Dinitrotoluene	300	357.759	119	
4-Amino-2,6-dinitrotoluene	600	549.787	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

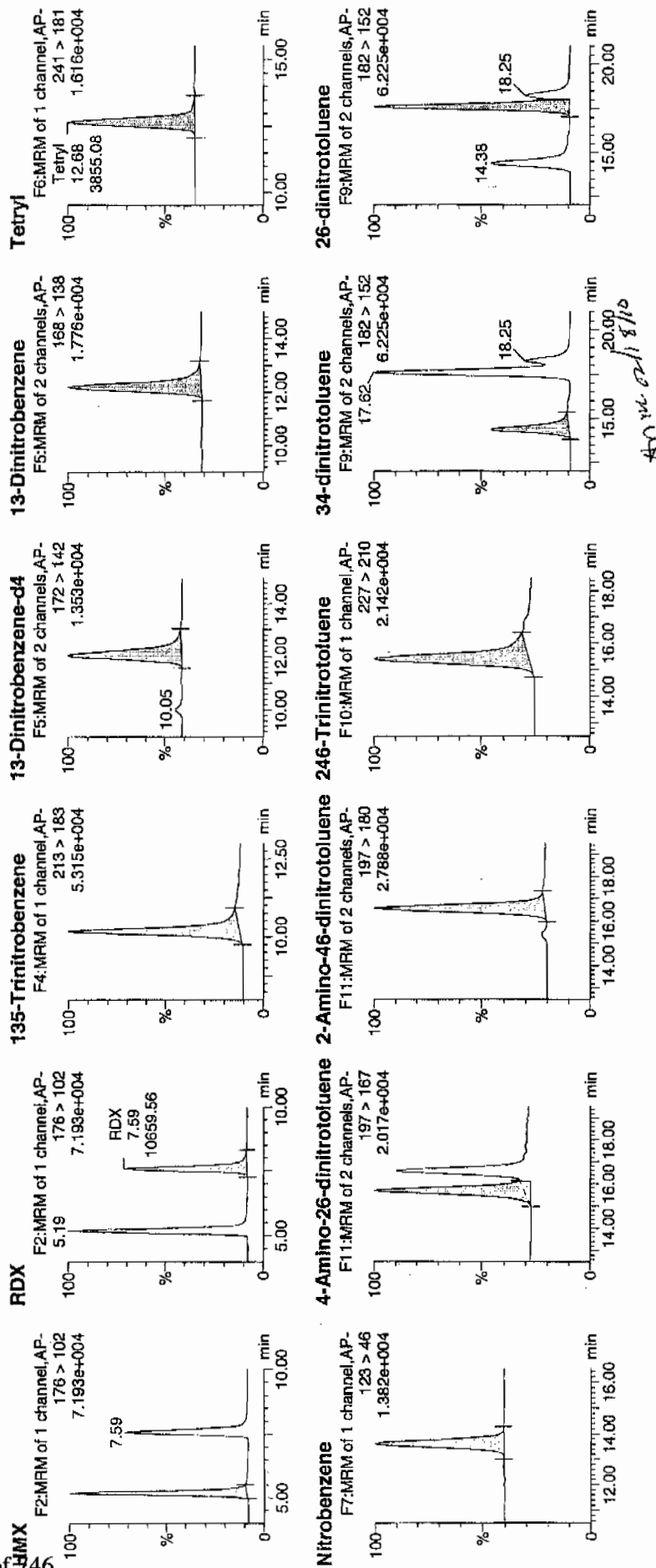
Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

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Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216078a

Date: 18-Feb-2010
Time: 07:10:32
ID: WXX100216-07CCV
Sample: 1:1, B

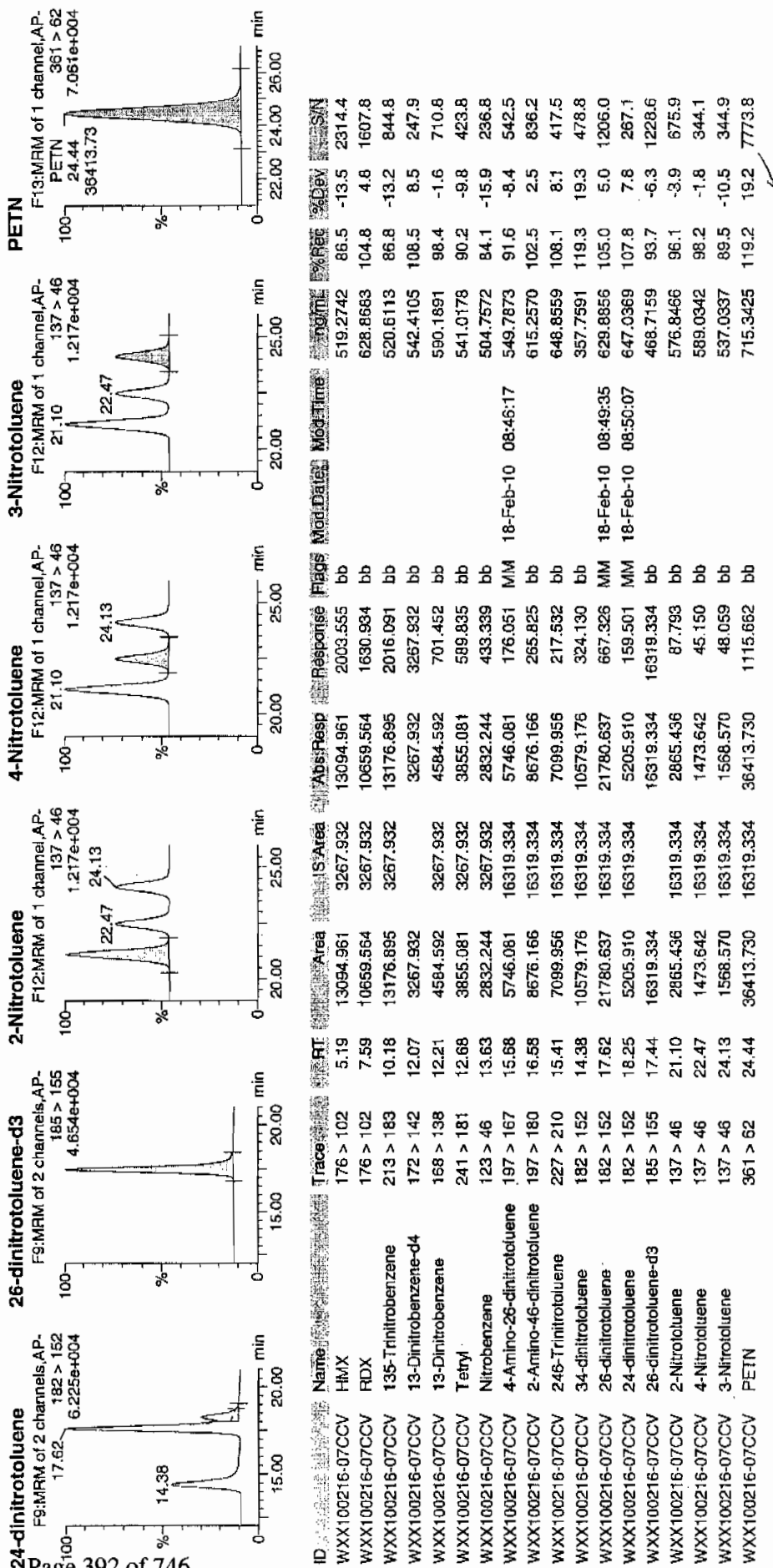
1/10/10



Printed: Thu Feb 18 08:53:51 2010, Page 98 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/18/10
 Time of Injection: 0710
 Standard Number: WXX100216-07CCV
 Data File: EXP0216078a

HMX	86.5
RDX	104.8
135-TNB	86.8
13-DNB	98.4
Tetryl	90.2
Nitrobenzene	84.1
4A-26-DNT	91.6
2A-46-DNT	102.5
246-TNT	108.1
34-DNT(surr)	119.3
26-DNT	105.0
24-DNT	107.8
2-NT	96.1
4-NT	98.2
3-NT	89.5
PETN	119.2

*MTT
2/18/10*

Total 1588.1

Average 99.3

Time 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216080a

Analysis Date: 18-FEB-10 08:10

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	48.403	121	
1,3-Dinitrobenzene-d4	500	494.727	99	
2,4,6-Trinitrotoluene	40	41.136	103	
2,4-Dinitrotoluene	40	38.771	97	
2,6-Dinitrotoluene	40	44.76	112	
2,6-Dinitrotoluene-d3	500	481.497	96	
2-Amino-4,6-dinitrotoluene	40	41.233	103	
3,4-Dinitrotoluene	20	22.678	113	
4-Amino-2,6-dinitrotoluene	40	37.418	94	
HMX	40	43.826	110	
Nitrobenzene	40	37.223	93	
PETN	40	54.239	136	*
RDX	40	42.015	105	
Tetryl	40	39.964	100	
m-Dinitrobenzene	40	45.818	115	
m-Nitrotoluene	40	40.759	102	
o-Nitrotoluene	40	45.987	115	
p-Nitrotoluene	40	51.62	129	

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\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216080a

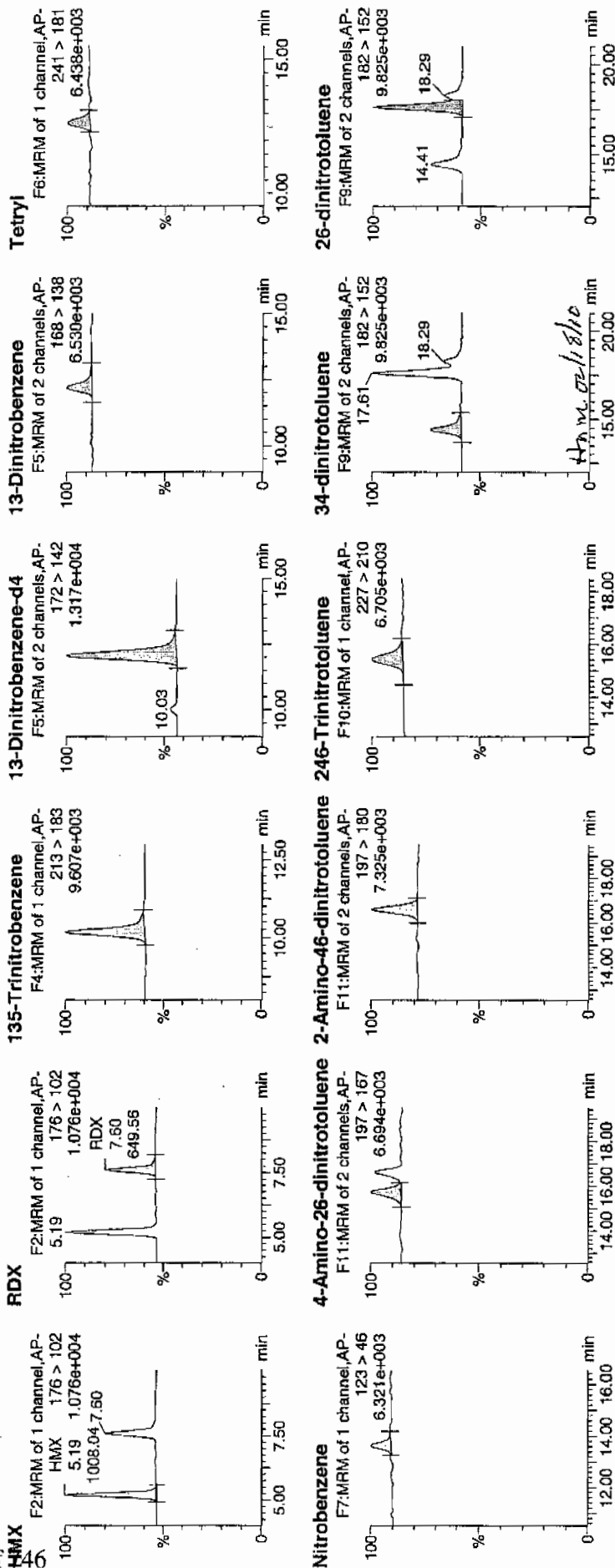
Date: 18-Feb-2010

Time: 08:10:12

ID: WXX100216-08CRI

Mat: 1:1,C

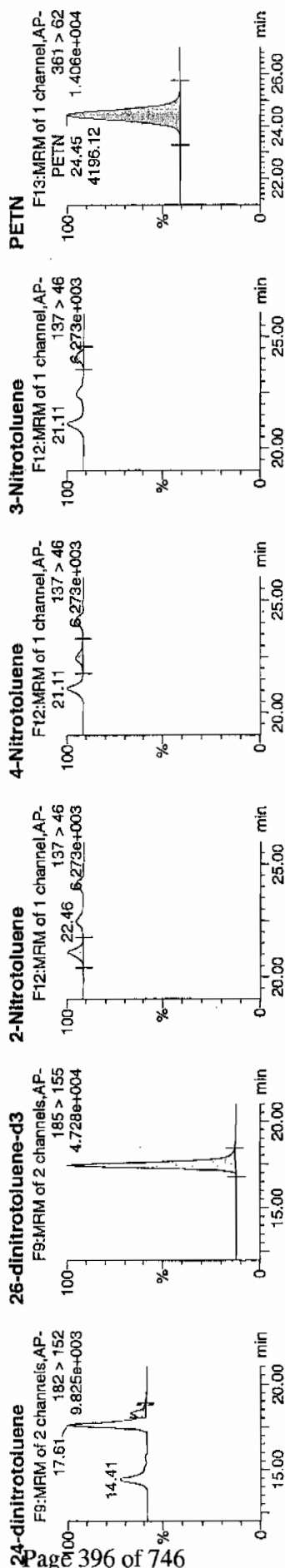
1/18/10



Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA1.qld, Time: Thu Feb 18 08:53:07 2010



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	ing/ml	% Rec	% Dev	S/N
WXX100216-08CRI	HMx	176 > 102	5.19	1008.036	2980.646	1008.036	169.097	bb			43.8259	109.6	9.6	201.4
WXX100216-08CRI	RDX	176 > 102	7.60	649.563	2980.646	649.563	108.963	bb			42.0150	105.0	5.0	111.9
WXX100216-08CRI	135-Tnitrobenzene	213 > 183	10.18	1117.398	2980.646	1117.398	187.442	bb			48.4029	121.0	21.0	143.8
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.06	2980.646	2980.646	2980.646	2980.646	bb			494.7268	98.9	-1.1	450.8
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.20	324.627	2980.646	324.627	54.456	bb			45.8182	114.5	14.5	34.8
WXX100216-08CRI	Tetryl	241 > 181	12.66	259.731	2980.646	259.731	43.570	db			39.9636	99.9	-0.1	29.4
WXX100216-08CRI	Nitrobenzene	123 > 46	13.61	190.499	2980.646	190.499	31.956	db			37.2226	93.1	-6.9	28.0
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.73	401.731	16764.338	401.731	11.982	MM	18-Feb-10	08:46:24	37.4175	93.5	-6.5	26.2
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.59	597.310	16764.338	597.310	17.815	bb			41.2330	103.1	3.1	68.2
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.44	462.397	16764.338	462.397	13.791	bb			41.1361	102.8	2.8	49.8
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.41	688.876	16764.338	688.876	20.546	bb			22.6775	113.4	13.4	28.8
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.61	1589.948	16764.338	1589.948	47.421	MM	18-Feb-10	08:49:42	44.7600	111.9	11.9	83.5
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.29	320.451	16764.338	320.451	9.558	MM	18-Feb-10	08:50:00	38.7713	96.9	-3.1	15.9
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.43	16764.338	16764.338	16764.338	16764.338	bb			481.4971	96.3	-3.7	1198.5
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.11	234.663	16764.338	234.663	6.999	bb			45.9865	115.0	15.0	54.3
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.46	132.665	16764.338	132.665	3.957	bb			51.6203	129.1	28.1	25.9
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.10	122.295	16764.338	122.295	3.647	bb			40.7589	101.9	1.9	25.8
WXX100216-08CRI	PETN	361 > 62	24.45	4196.118	16764.338	4196.118	125.150	bb			54.2394	135.6	35.6	1686.2

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/18/10
 Time of Injection 0810
 Standard Number WXX100216-08CRI
 Data File EXP0216080a

HMX	109.6
RDX	105.0
135-TNB	121.0
13-DNB	114.5
Tetryl	99.9
Nitrobenzene	93.1
4A-26-DNT	93.5
2A-46-DNT	103.1
246-TNT	102.8
34-DNT(surr)	113.4
26-DNT	111.9
24-DNT	96.9
2-NT	115.0
4-NT	129.1
3-NT	101.9
PETN	135.6

*MTT
2/18/10*

Total 1746.3

Average 109.1

from 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216089a

Analysis Date: 18-FEB-10 12:36

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	575.828	96	
1,3-Dinitrobenzene-d4	500	495.598	99	
2,4,6-Trinitrotoluene	600	691.665	115	
2,4-Dinitrotoluene	600	659.229	110	
2,6-Dinitrotoluene	600	644.249	107	
2,6-Dinitrotoluene-d3	500	461.757	92	
2-Amino-4,6-dinitrotoluene	600	655.311	109	
3,4-Dinitrotoluene	300	351.733	117	
4-Amino-2,6-dinitrotoluene	600	586.497	98	
HMX	600	695.878	116	
Nitrobenzene	600	570.735	95	
PETN	600	765.325	128	*
RDX	600	762.426	127	*
Tetryl	600	584.833	97	
m-Dinitrobenzene	600	636.337	106	
m-Nitrotoluene	600	573.92	96	
o-Nitrotoluene	600	648.456	108	
p-Nitrotoluene	600	589.135	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

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216089a

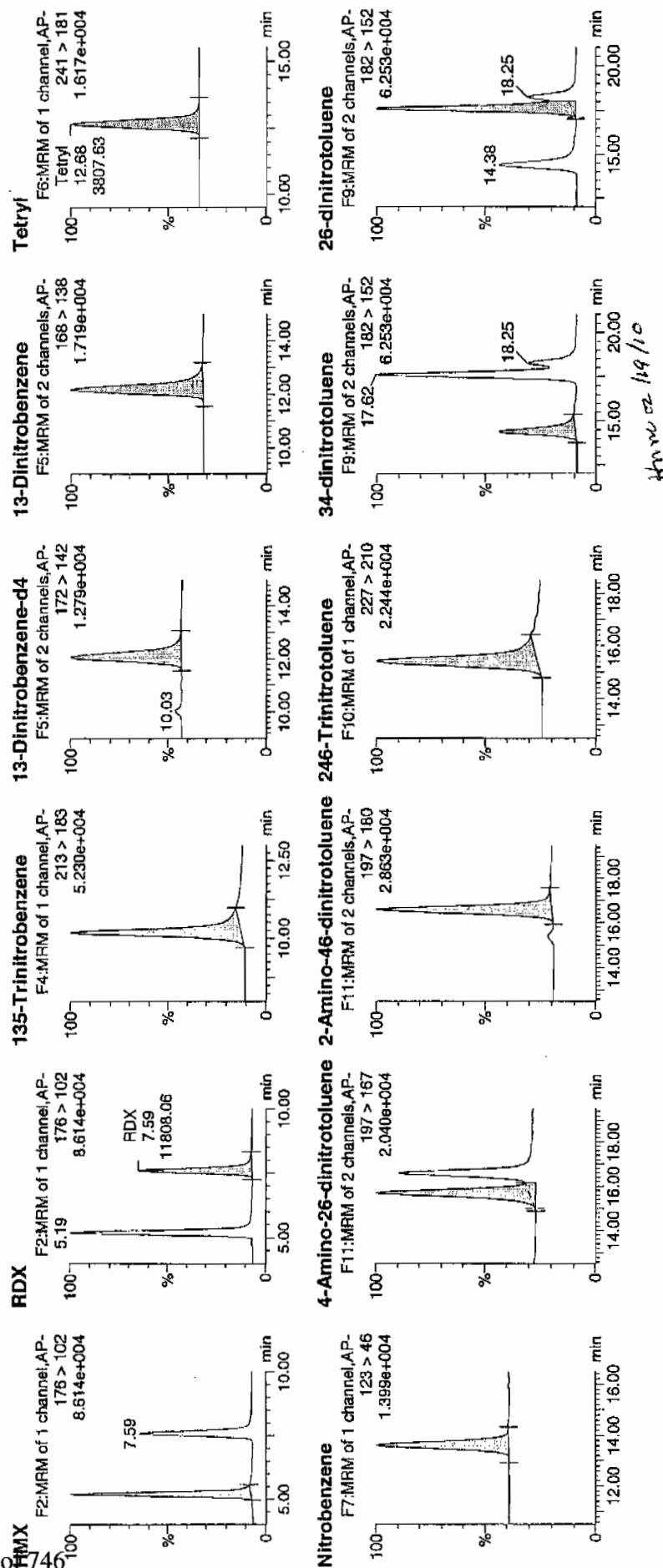
Date: 18-Feb-2010

Time: 12:36:18

ID: WXX100216-07CCV

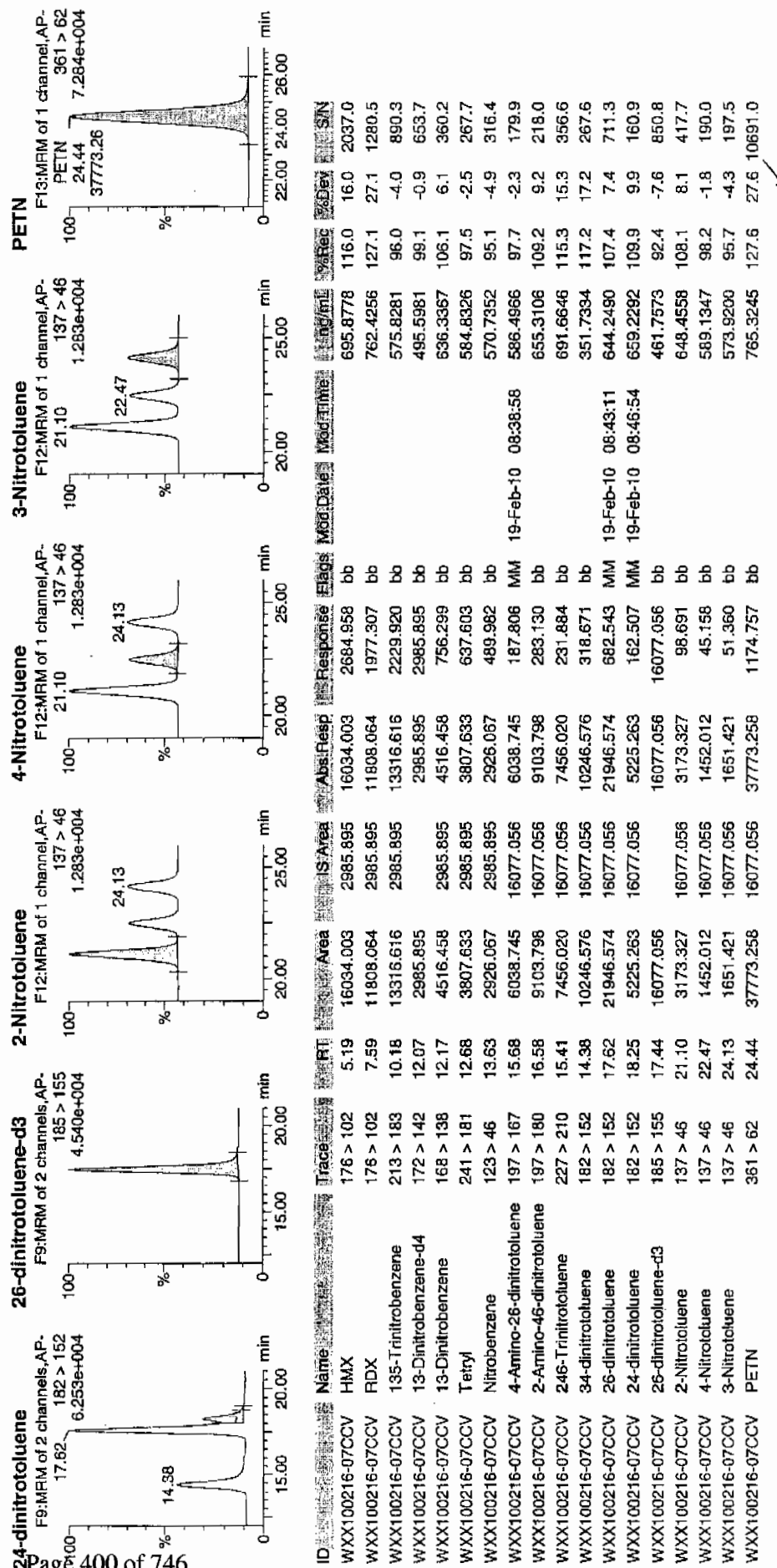
Cal: 1:1,B

1/10/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/18/10
 Time of Injection: 1236
 Standard Number: WXX100216-07CCV
 Data File: EXP0216089a

HMX	116.0
RDX	127.1
135-TNB	96.0
13-DNB	106.1
Tetryl	97.5
Nitrobenzene	95.1
4A-26-DNT	97.7
2A-46-DNT	109.2
246-TNT	115.3
34-DNT(surr)	117.2
26-DNT	107.4
24-DNT	109.9
2-NT	108.1
4-NT	98.2
3-NT	95.7
PETN	127.6

*with
2/19/10*

Total 1724.1

Average 107.8

47 mg 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216091a

Analysis Date: 18-FEB-10 13:35

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	40	39.308	98	
HMX	40	45.096	113	
Nitrobenzene	40	40.389	101	
PETN	40	50.626	127	
RDX	40	44.527	111	
Tetryl	40	44.164	110	
m-Dinitrobenzene	40	38.138	95	
m-Nitrotoluene	40	37.355	93	
o-Nitrotoluene	40	34.55	86	
p-Nitrotoluene	40	31.551	79	
1,3,5-Trinitrobenzene	40	49.419	124	
1,3-Dinitrobenzene-d4	500	495.095	99	
2,4,6-Trinitrotoluene	40	63.823	160	*
2,4-Dinitrotoluene	40	44.759	112	
2,6-Dinitrotoluene	40	43.488	109	
2,6-Dinitrotoluene-d3	500	500.11	100	
2-Amino-4,6-dinitrotoluene	40	42.691	107	
3,4-Dinitrotoluene	20	22.924	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

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216091a

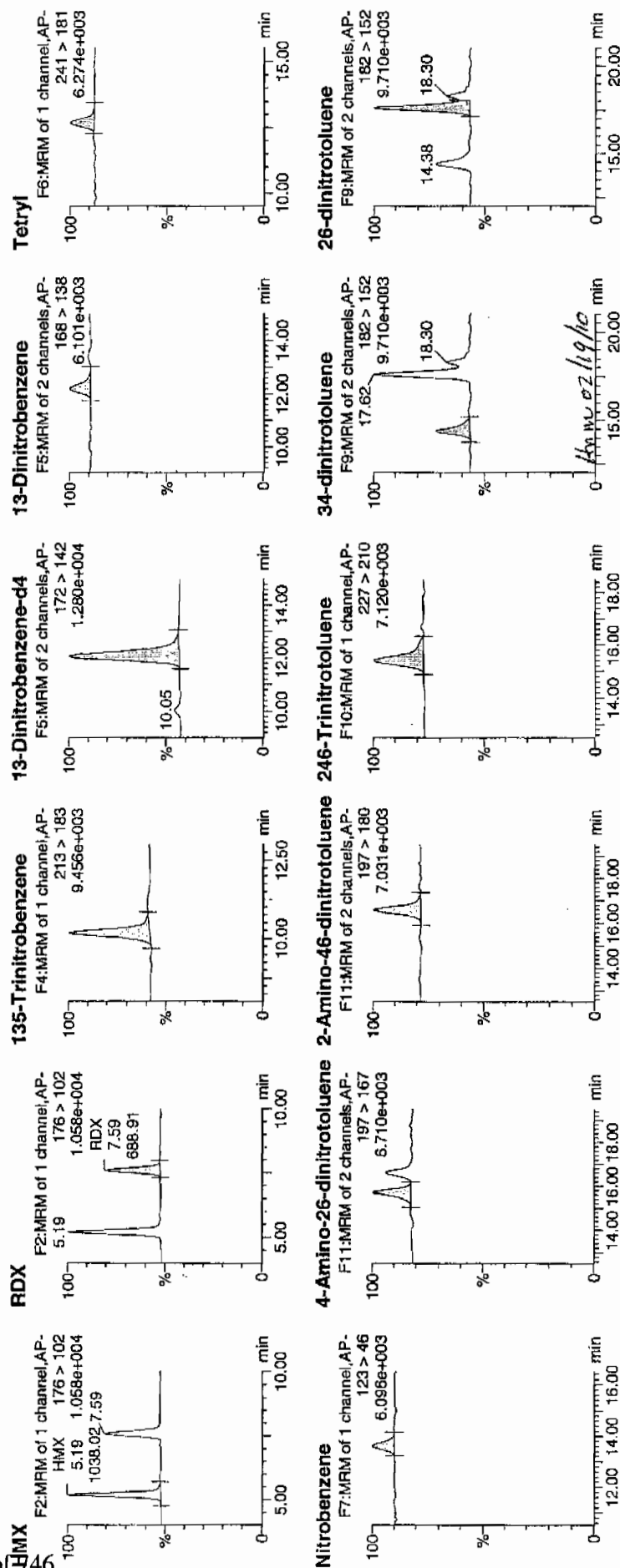
Date: 18-Feb-2010

Time: 13:35:23

ID: WXX100216-08CRI

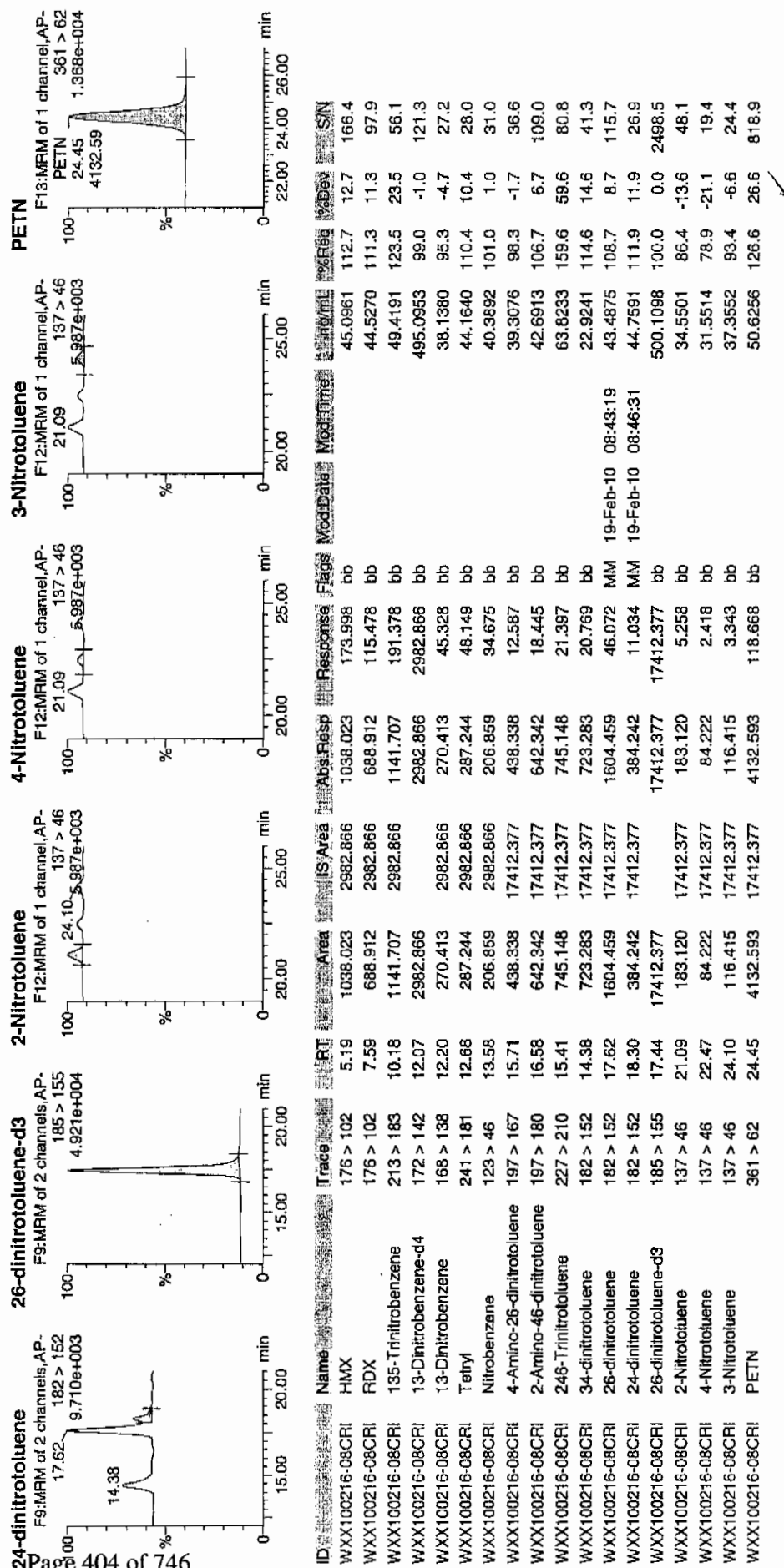
Cal: 1:1,C

10/10/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/18/10
 Time of Injection 1335
 Standard Number WXX100216-08CRI
 Data File EXP0216091a

HMX	112.7	✓
RDX	111.3	✓
135-TNB	123.5	✓
13-DNB	95.3	
Tetryl	110.4	
Nitrobenzene	101.0	
4A-26-DNT	98.3	
2A-46-DNT	106.7	
246-TNT	159.6	
34-DNT(surr)	114.6	
26-DNT	108.7	
24-DNT	111.9	
2-NT	86.4	
4-NT	78.9	
3-NT	93.4	
PETN	126.6	

*MA
2/19/10*

Total 1739.3

Average 108.7 ✓

MA 02/19/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216101a

Analysis Date: 18-FEB-10 18:31

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
HMX	600	661.47	110	
Nitrobenzene	600	556.503	93	
PETN	600	838.314	140	*
RDX	600	788.92	131	*
Tetryl	600	597.56	100	
m-Dinitrobenzene	600	622.496	104	
m-Nitrotoluene	600	569.513	95	
o-Nitrotoluene	600	604.641	101	
p-Nitrotoluene	600	614.496	102	
1,3,5-Trinitrobenzene	600	636.536	106	
1,3-Dinitrobenzene-d4	500	417.68	84	
2,4,6-Trinitrotoluene	600	691.126	115	
2,4-Dinitrotoluene	600	637.013	106	
2,6-Dinitrotoluene	600	619.323	103	
2,6-Dinitrotoluene-d3	500	397.466	79	*
2-Amino-4,6-dinitrotoluene	600	648.012	108	
3,4-Dinitrotoluene	300	329.226	110	
4-Amino-2,6-dinitrotoluene	600	589.342	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

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216101a

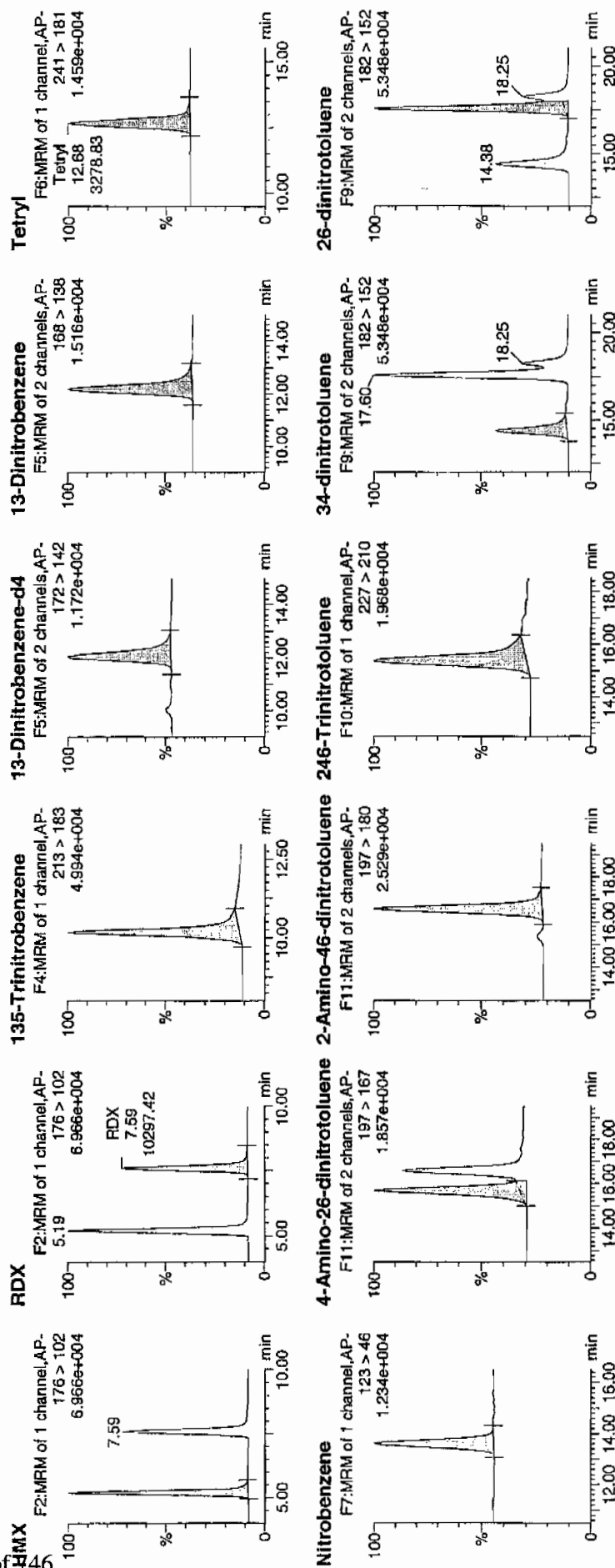
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Time: 18:31:14

ID: WXX100216-07CCV

Mix: 1:1,B

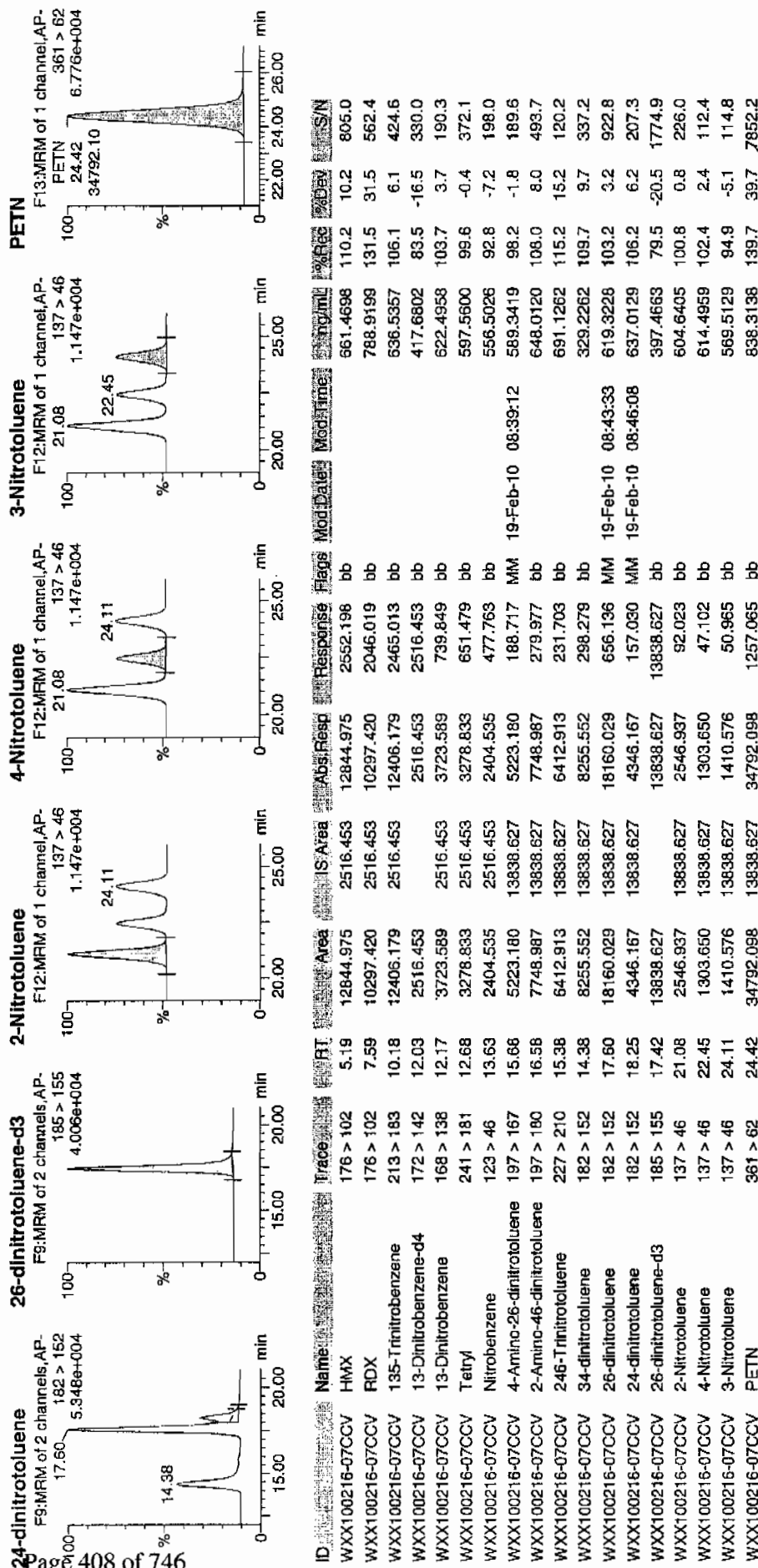
1/19/10



1/19/10

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/18/10
 Time of Injection: 1831
 Standard Number: WXX100216-07CCV
 Data File: EXP0216101a

HMX	110.2
RDX	131.5
135-TNB	106.1
13-DNB	109.7
Tetryl	99.6
Nitrobenzene	92.8
4A-26-DNT	98.2
2A-46-DNT	108.0
246-TNT	115.2
34-DNT(surr)	109.7
26-DNT	103.2
24-DNT	106.2
2-NT	100.8
4-NT	102.4
3-NT	94.9
PETN	139.7

Handwritten: 2/19/10

Total 1728.2

Average 108.0

Handwritten: 4/11/10 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216103a

Analysis Date: 18-FEB-10 19:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	58.779	147	*
1,3-Dinitrobenzene-d4	500	457.386	91	
2,4,6-Trinitrotoluene	40	46.527	116	
2,4-Dinitrotoluene	40	46.8	117	
2,6-Dinitrotoluene	40	41.187	103	
2,6-Dinitrotoluene-d3	500	451.82	90	
2-Amino-4,6-dinitrotoluene	40	40.759	102	
3,4-Dinitrotoluene	20	21.612	108	
4-Amino-2,6-dinitrotoluene	40	34.649	87	
HMX	40	46.441	116	
Nitrobenzene	40	31.128	78	
PETN	40	54.273	136	*
RDX	40	41.533	104	
Tetryl	40	53.24	133	*
m-Dinitrobenzene	40	46.745	117	
m-Nitrotoluene	40	40.745	102	
o-Nitrotoluene	40	34.511	86	
p-Nitrotoluene	40	26.865	67	*

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\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216103a

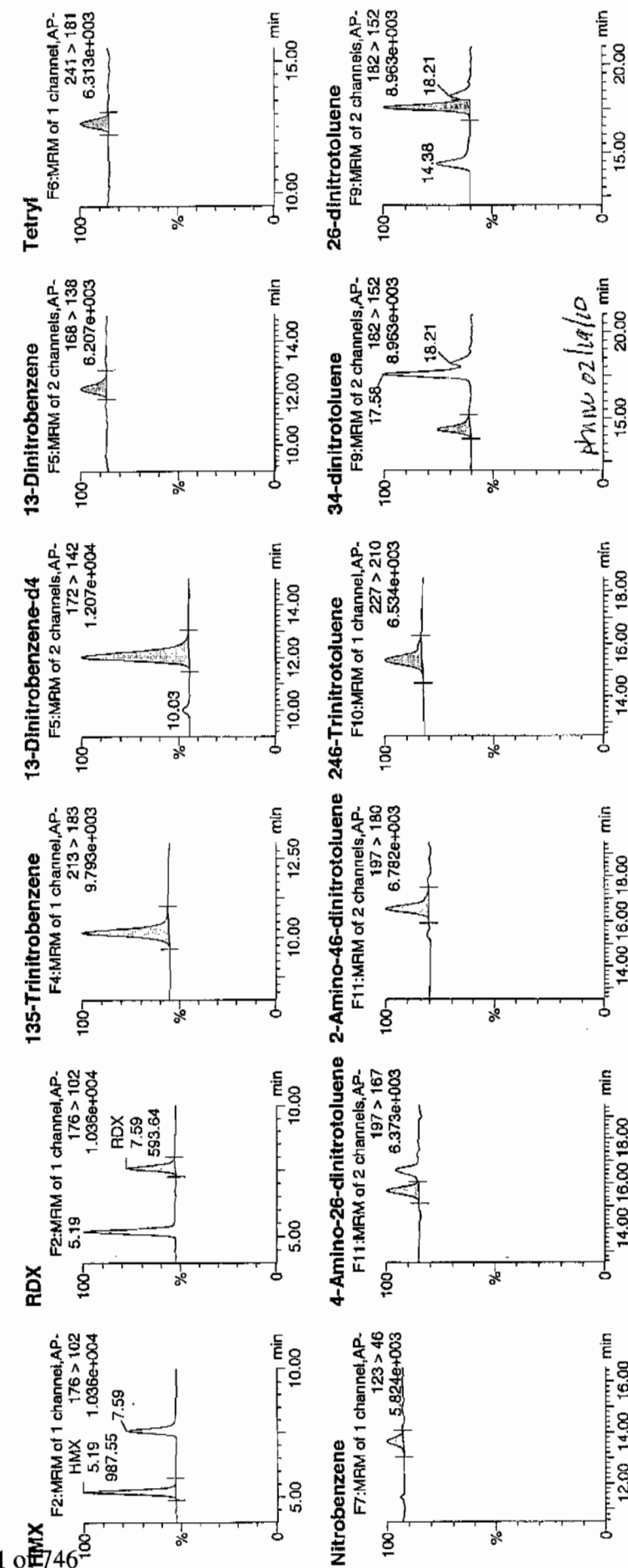
Date: 18-Feb-2010

Time: 19:30:18

ID: WXX100216-08CRI

Vial: 1:1,C

AP-
1/1/10

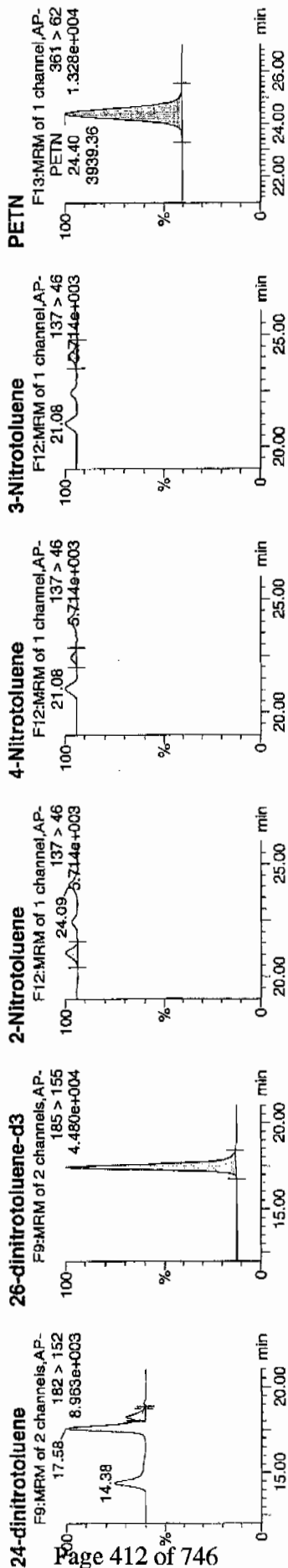


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Printed: Fri Feb 19 08:50:21 2010, Page 46 of 97



ID	Name	Trace	RT	Area	US Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	%RSD	%Dev	S/N
WXX100216-08CRI	HMX	176 > 102	5.19	987.551	2755.674	987.551	179.185	bb			46.4405	116.1	16.1	119.3
WXX100216-08CRI	RDX	176 > 102	7.59	593.639	2755.674	593.639	107.712	bb			41.5325	103.8	3.8	63.3
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.16	1254.523	2755.674	1254.523	227.625	bb			58.7793	146.9	46.9	350.7
WXX100216-08CRI	13-Dinitrobenzene	172 > 142	12.03	2755.674	2755.674	2755.674	2755.674	bb			457.3860	91.5	-8.5	182.7
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.21	306.197	2755.674	306.197	55.558	bb			46.7452	116.9	16.9	25.3
WXX100216-08CRI	Tetryl	241 > 181	12.68	319.900	2755.674	319.900	58.044	bd			53.2399	133.1	33.1	42.4
WXX100216-08CRI	Nitrobenzene	123 > 46	13.63	147.282	2755.674	147.282	26.723	bb			31.1277	77.8	-22.2	24.2
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	349.075	15731.055	349.075	11.095	MM	19-Feb-10	08:39:18	34.6486	86.6	-13.4	44.9
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	554.050	15731.055	554.050	17.610	bb			40.7589	101.9	1.9	110.5
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.38	490.756	15731.055	490.756	15.598	bb			46.5268	116.3	16.3	47.2
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.38	616.030	15731.055	616.030	19.580	bb			21.6115	108.1	8.1	45.2
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.58	1372.843	15731.055	1372.843	43.635	MM	19-Feb-10	08:43:46	41.1867	103.0	3.0	119.6
WXX100216-08CRI	24-dinitrotoluene	182 > 152	18.21	362.966	15731.055	362.966	11.537	MM	19-Feb-10	08:46:00	46.7997	117.0	17.0	29.0
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	15731.055	15731.055	15731.055	15731.055	bb			451.8197	90.4	-9.6	848.8
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.08	165.251	15731.055	165.251	5.252	bb			34.5111	86.3	-13.7	27.1
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.43	64.787	15731.055	64.787	2.059	bb			26.8646	67.2	-32.8	12.7
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.09	114.719	15731.055	114.719	3.646	bb			40.7453	101.9	1.9	17.0
WXX100216-08CRI	PETN	361 > 62	24.40	3939.359	15731.055	3939.359	125.210	bb			54.2726	135.7	35.7	757.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/18/10
 Time of Injection 1930
 Standard Number WXX100216-08CRI
 Data File EXP0216103a

HMX	116.1
RDX	103.8
135-TNB	146.9
13-DNB	116.9
Tetryl	133.1
Nitrobenzene	77.8
4A-26-DNT	86.6
2A-46-DNT	101.9
246-TNT	116.3
34-DNT(surr)	108.1
26-DNT	103.0
24-DNT	117.0
2-NT	86.3
4-NT	67.2
3-NT	101.9
PETN	135.7

*not
data*

Total 1718.6

Average 107.4

Hand 02/18/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216114a

Analysis Date: 19-FEB-10 00:55

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	571.409	95	
1,3-Dinitrobenzene-d4	500	465.878	93	
2,4,6-Trinitrotoluene	600	690.895	115	
2,4-Dinitrotoluene	600	648.45	108	
2,6-Dinitrotoluene	600	627.387	105	
2,6-Dinitrotoluene-d3	500	447.599	90	
2-Amino-4,6-dinitrotoluene	600	606.475	101	
3,4-Dinitrotoluene	300	332.84	111	
4-Amino-2,6-dinitrotoluene	600	583.14	97	
HMX	600	691.106	115	
Nitrobenzene	600	588.13	98	
PETN	600	649.5	108	
RDX	600	760.723	127	*
Tetryl	600	549.314	92	
m-Dinitrobenzene	600	621.892	104	
m-Nitrotoluene	600	658.774	110	
o-Nitrotoluene	600	731.578	122	*
p-Nitrotoluene	600	638.105	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

Printed: Fri Feb 19 08:50:21 2010, Page 67 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216114a

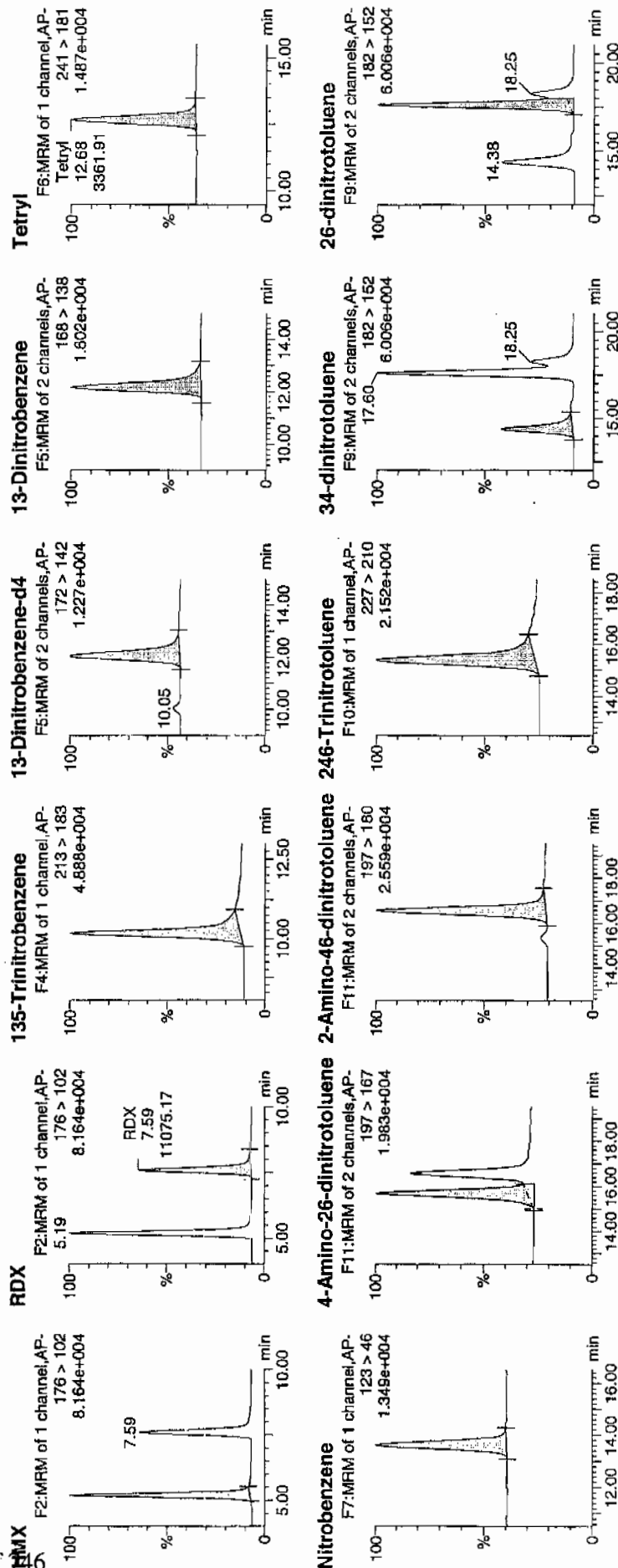
Date: 19-Feb-2010

Time: 00:55:04

ID: WXX100216-07CCV

Vial: 1:1,B

MT
2/19/10

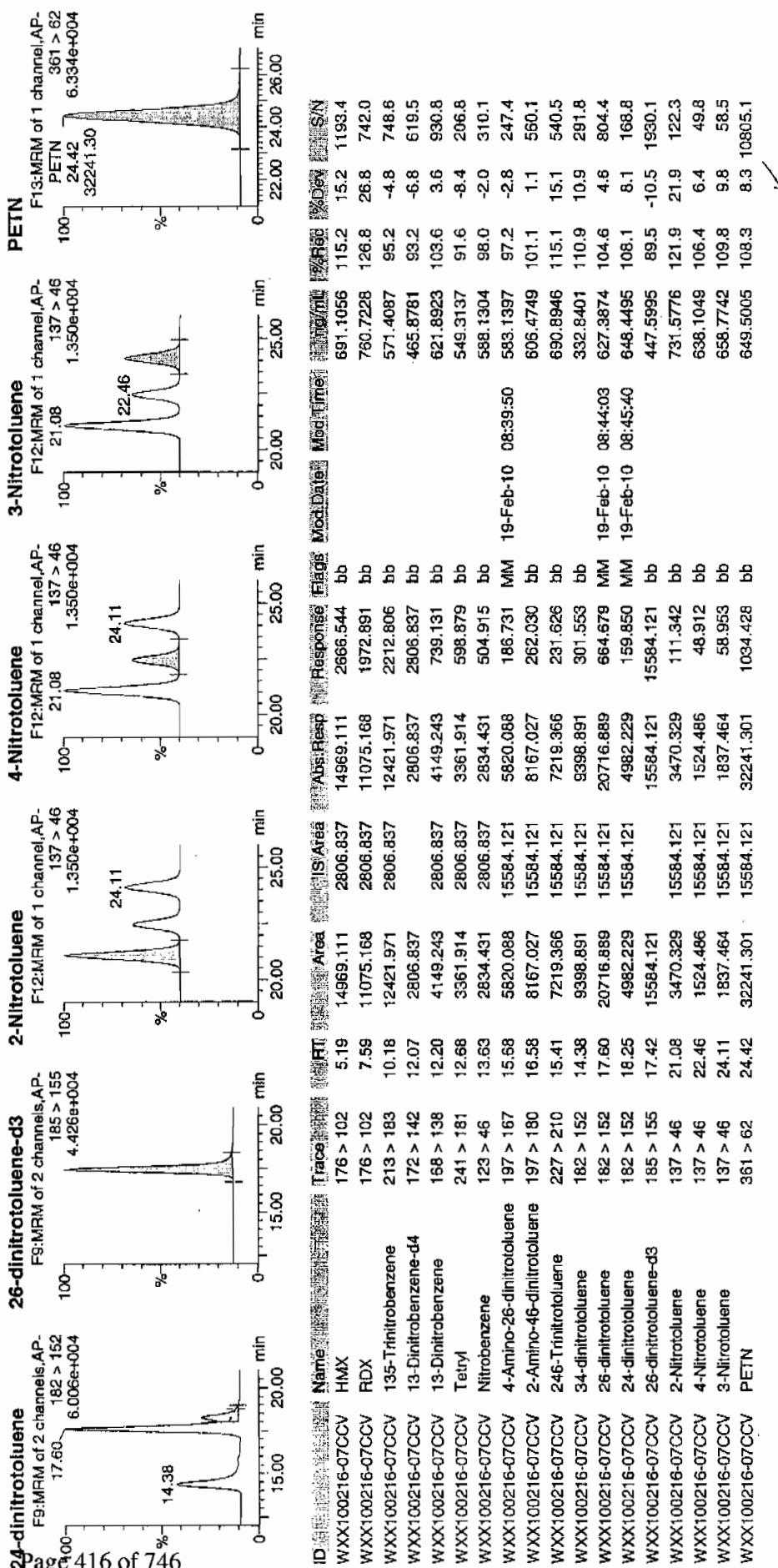


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Printed: Fri Feb 19 08:50:21 2010, Page 68 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/19/10
 Time of Injection: 0055
 Standard Number: WXX100216-07CCV
 Data File: EXP0216114a

HMX	115.2
RDX	126.8
135-TNB	95.2
13-DNB	103.6
Tetryl	91.6
Nitrobenzene	98.0
4A-26-DNT	97.2
2A-46-DNT	101.1
246-TNT	115.1
34-DNT(surr)	110.9
26-DNT	104.6
24-DNT	108.1
2-NT	121.9
4-NT	106.4
3-NT	109.8
PETN	108.3

*not
2/19/10*

Total 1713.8

from 02/19/10

Average 107.1

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216116a

Analysis Date: 19-FEB-10 01:54

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	470.242	94	
2,4,6-Trinitrotoluene	40	41.446	104	
2,4-Dinitrotoluene	40	40.654	102	
2,6-Dinitrotoluene	40	43.246	108	
2,6-Dinitrotoluene-d3	500	447.67	90	
2-Amino-4,6-dinitrotoluene	40	36.207	91	
3,4-Dinitrotoluene	20	19.336	97	
4-Amino-2,6-dinitrotoluene	40	36.956	92	
HMX	40	44.381	111	
Nitrobenzene	40	40.08	100	
PETN	40	50.067	125	
RDX	40	41.692	104	
Tetryl	40	48.261	121	
m-Dinitrobenzene	40	44.048	110	
m-Nitrotoluene	40	38.744	97	
o-Nitrotoluene	40	45.248	113	
p-Nitrotoluene	40	44.246	111	
1,3,5-Trinitrobenzene	40	54.134	135	*

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\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216116a

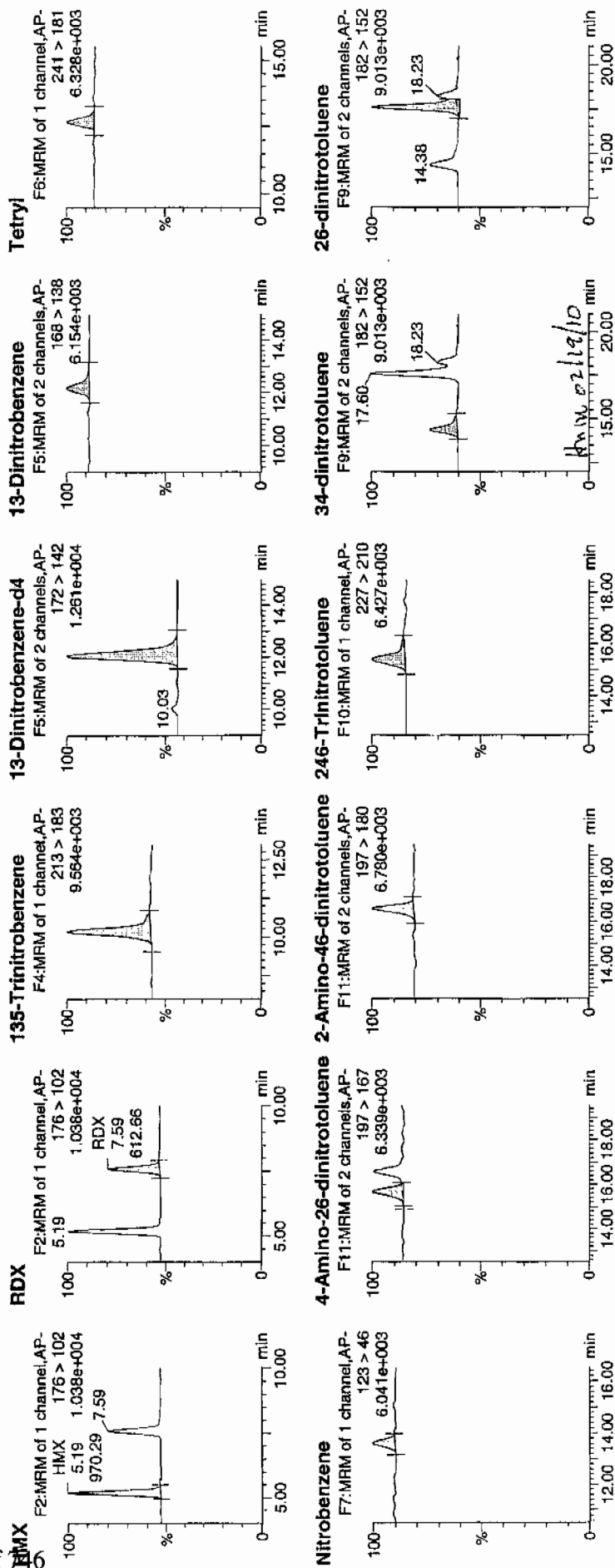
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Time: 01:54:19

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Val: 1:1,C

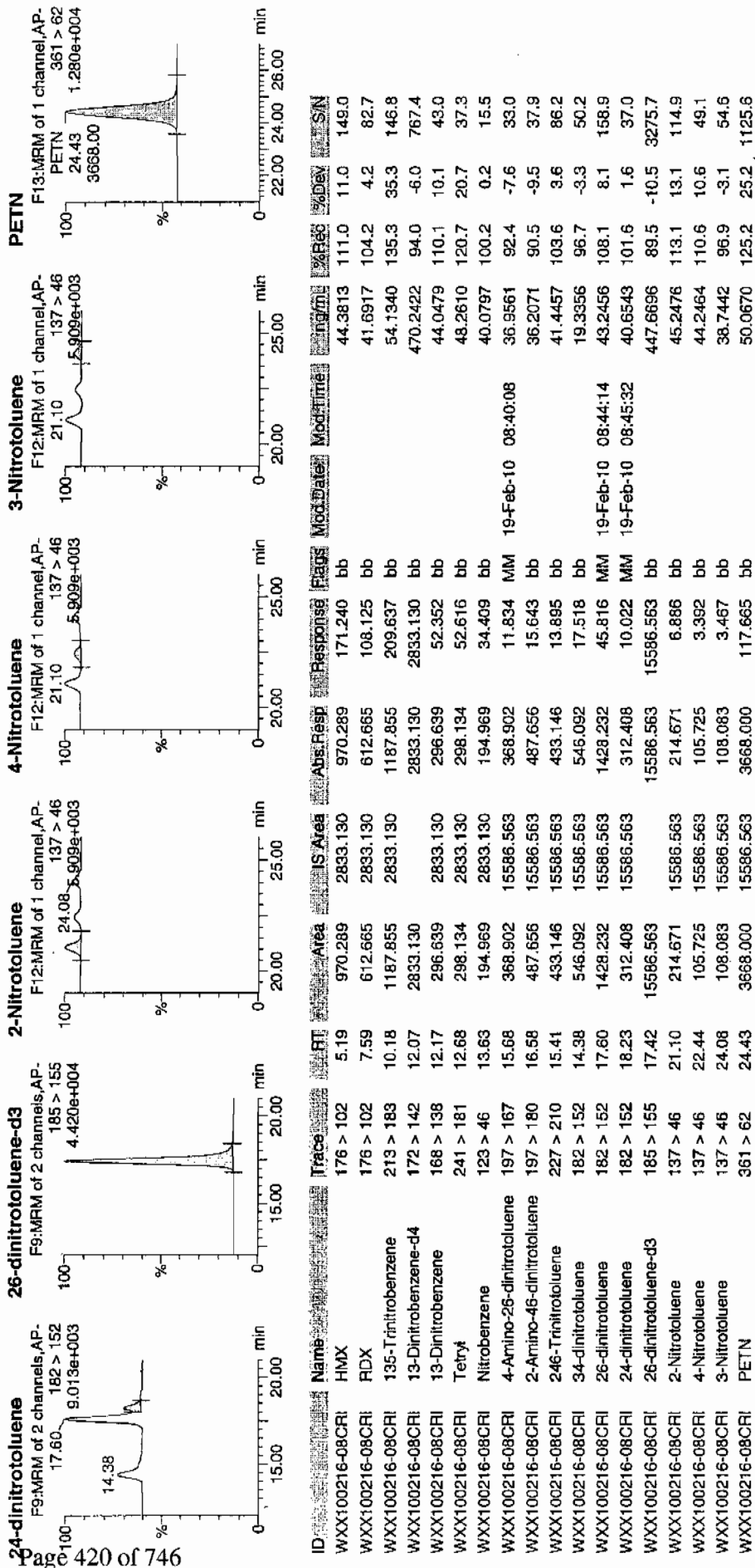
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2/19/10



Printed: Fri Feb 19 08:50:21 2010, Page 72 of 97

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/19/10
 Time of Injection 0154
 Standard Number WXX100216-08CRI
 Data File EXP0216116a

HMX	111.0
RDX	104.2
135-TNB	135.3
13-DNB	110.1
Tetryl	120.7
Nitrobenzene	100.2
4A-26-DNT	92.4
2A-46-DNT	90.5
246-TNT	103.6
34-DNT(surr)	96.7
26-DNT	108.1
24-DNT	101.6
2-NT	113.1
4-NT	110.6
3-NT	96.9
PETN	125.2

*WTF
2/19/10*

Total 1720.2

Average 107.5

Time 02/19/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216126a

Analysis Date: 19-FEB-10 06:51

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	602.103	100	
1,3-Dinitrobenzene-d4	500	399.789	80	*
2,4,6-Trinitrotoluene	600	636.088	106	
2,4-Dinitrotoluene	600	631.293	105	
2,6-Dinitrotoluene	600	639.245	107	
2,6-Dinitrotoluene-d3	500	397.902	80	*
2-Amino-4,6-dinitrotoluene	600	620.207	103	
3,4-Dinitrotoluene	300	328.459	109	
4-Amino-2,6-dinitrotoluene	600	549.091	92	
HMX	600	579.088	97	
Nitrobenzene	600	570.011	95	
PETN	600	752.558	125	*
RDX	600	664.439	111	
Tetryl	600	546.113	91	
m-Dinitrobenzene	600	654.383	109	
m-Nitrotoluene	600	546.709	91	
o-Nitrotoluene	600	565.725	94	
p-Nitrotoluene	600	596.095	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010

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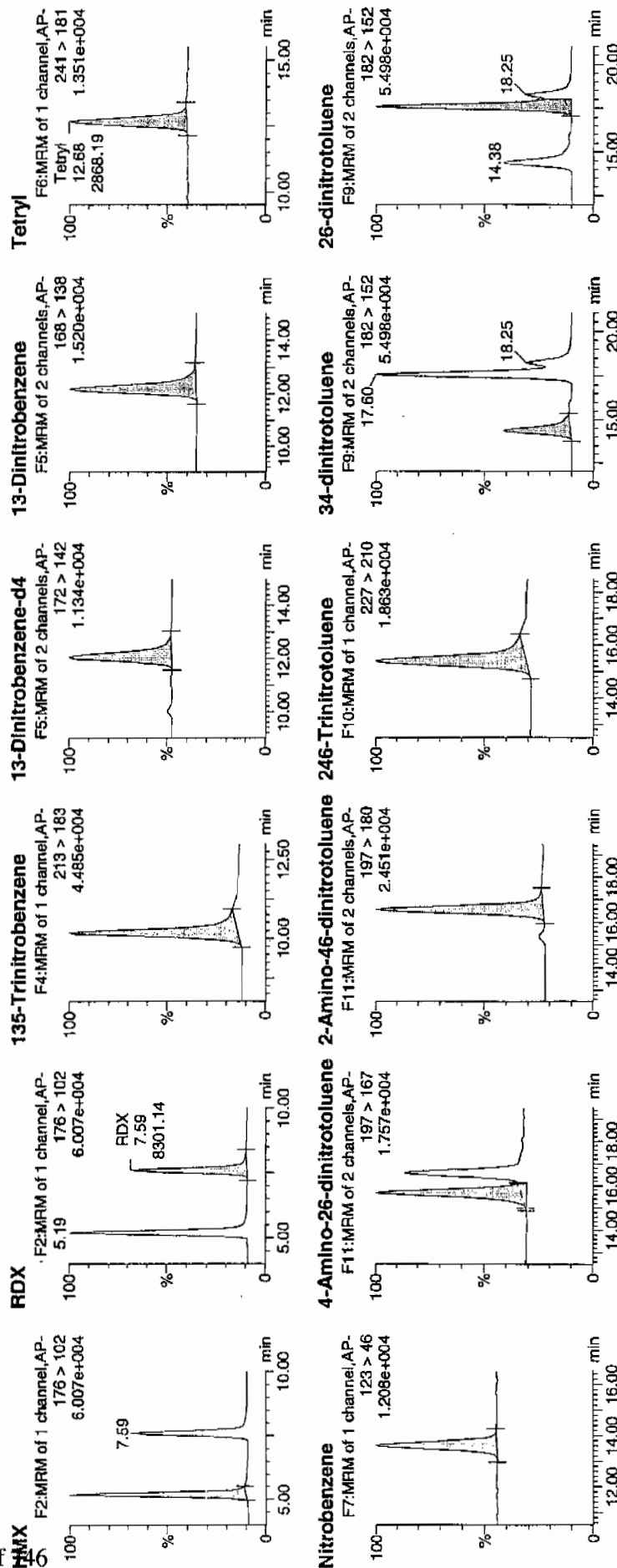
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Time: 06:51:55

ID: WXX100216-07CCV

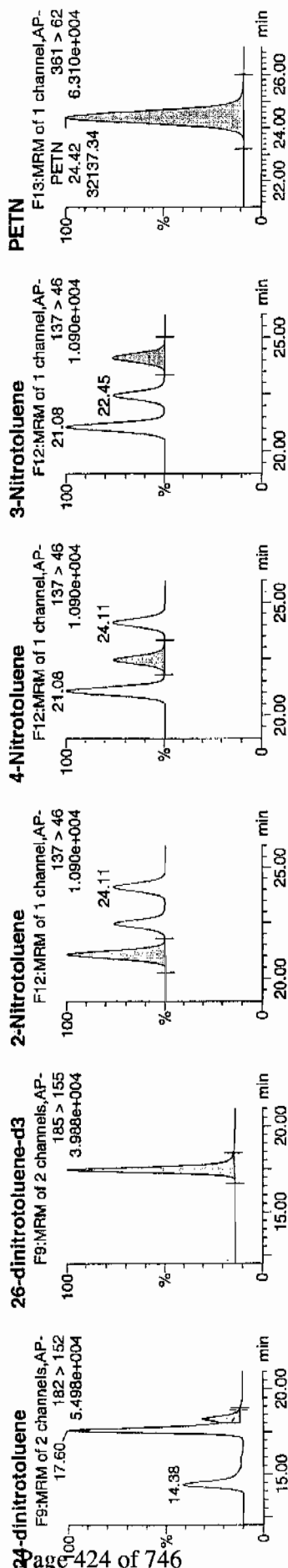
Vial: 1:1,B

WXX
2/19/10



WXX
2/19/10

Dataset: C:\MASSLYN\New_Exp.PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



ID	Name	Trace	RT	Area	S/Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Integ.Mt	Percent	%Dev	SN
WXX100216-07CCV	HMX	176 > 102	5.19	10763.521	2408.661	10763.521	2234.337	bb			579.0876	96.5	-3.5	1447.4
WXX100216-07CCV	RDX	176 > 102	7.59	8301.136	2408.661	8301.136	1723.185	bb			664.4390	110.7	10.7	948.0
WXX100216-07CCV	135-Trinitrobenzene	213 > 183	10.18	11232.409	2408.661	11232.409	2331.671	bb			602.1029	100.4	0.4	594.9
WXX100216-07CCV	13-Dinitrobenzene-d4	172 > 142	12.03	2408.661		2408.661	2408.661	bb			699.7889	80.0	-20.0	410.6
WXX100216-07CCV	13-Dinitrobenzene	168 > 138	12.17	3748.680	2408.661	3748.680	777.747	bb			354.3832	109.1	9.1	625.2
WXX100216-07CCV	Tetryl	241 > 181	12.58	2868.187	2408.661	2868.187	595.390	bb			546.1134	91.0	-9.0	233.9
WXX100216-07CCV	Nitrobenzene	123 > 46	13.63	2357.406	2408.661	2357.406	489.360	bb			570.0115	95.0	-5.0	201.3
WXX100216-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	4871.783	13853.808	4871.783	175.828	MM	19-Feb-10	08:40:41	549.0908	91.5	-8.5	722.8
WXX100216-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.58	7424.633	13853.808	7424.633	267.964	bb			620.2074	103.4	3.4	998.6
WXX100216-07CCV	246-Trinitrotoluene	227 > 210	15.41	5908.694	13853.808	5908.694	213.252	bb			636.0882	106.0	6.0	440.8
WXX100216-07CCV	34-dinitrotoluene	182 > 152	14.38	8245.339	13853.808	8245.339	297.584	bb			328.4586	109.5	9.5	217.5
WXX100216-07CCV	26-dinitrotoluene	182 > 152	17.60	18764.768	13853.808	18764.768	677.242	MM	19-Feb-10	08:44:36	639.2453	106.5	6.5	633.1
WXX100216-07CCV	24-dinitrotoluene	182 > 152	18.25	4311.870	13853.808	4311.870	155.620	MM	19-Feb-10	08:45:00	631.2935	105.2	5.2	137.2
WXX100216-07CCV	26-dinitrotoluene-d3	185 > 155	17.42	13853.808		13853.808	13853.808	bb			697.9023	79.6	-20.4	1755.6
WXX100216-07CCV	2-Nitrotoluene	137 > 46	21.08	2385.626	13853.808	2385.626	86.100	bb			585.7249	94.3	-5.7	842.5
WXX100216-07CCV	4-Nitrotoluene	137 > 46	22.45	1266.000	13853.808	1266.000	45.691	bb			596.0950	99.3	-0.7	436.0
WXX100216-07CCV	3-Nitrotoluene	137 > 46	24.11	1365.580	13853.808	1365.580	48.924	bb			546.7088	91.1	-8.9	445.0
WXX100216-07CCV	PETN	361 > 62	24.42	32137.336	13853.808	32137.336	1159.874	bb			752.5580	125.4	25.4	6987.9

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/19/10
 Time of Injection: 0651
 Standard Number: WXX100216-07CCV
 Data File: EXP0216126a

HMX	96.5
RDX	110.7
135-TNB	100.4
13-DNB	109.1
Tetryl	91.0
Nitrobenzene	95.0
4A-26-DNT	91.5
2A-46-DNT	103.4
246-TNT	106.0
34-DNT (surr)	109.5
26-DNT	106.5
24-DNT	105.2
2-NT	94.3
4-NT	99.3
3-NT	91.1
PETN	125.4

Handwritten:
 1007
 2/19/10

Total 1634.9

Average 102.2

Handwritten: Done 02/19/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216128a

Analysis Date: 19-FEB-10 07:51

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	40	54.004	135	*
RDX	40	44.767	112	
Tetryl	40	41.893	105	
m-Dinitrobenzene	40	46.8	117	
m-Nitrotoluene	40	44.528	111	
o-Nitrotoluene	40	39.368	98	
p-Nitrotoluene	40	54.772	137	*
1,3,5-Trinitrobenzene	40	55.601	139	*
1,3-Dinitrobenzene-d4	500	449.803	90	
2,4,6-Trinitrotoluene	40	55.731	139	*
2,4-Dinitrotoluene	40	40.622	102	
2,6-Dinitrotoluene	40	39.408	99	
2,6-Dinitrotoluene-d3	500	428.152	86	
2-Amino-4,6-dinitrotoluene	40	37.221	93	
3,4-Dinitrotoluene	20	25.924	130	
4-Amino-2,6-dinitrotoluene	40	38.795	97	
HMX	40	51.235	128	
Nitrobenzene	40	44.876	112	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 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

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Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216128a

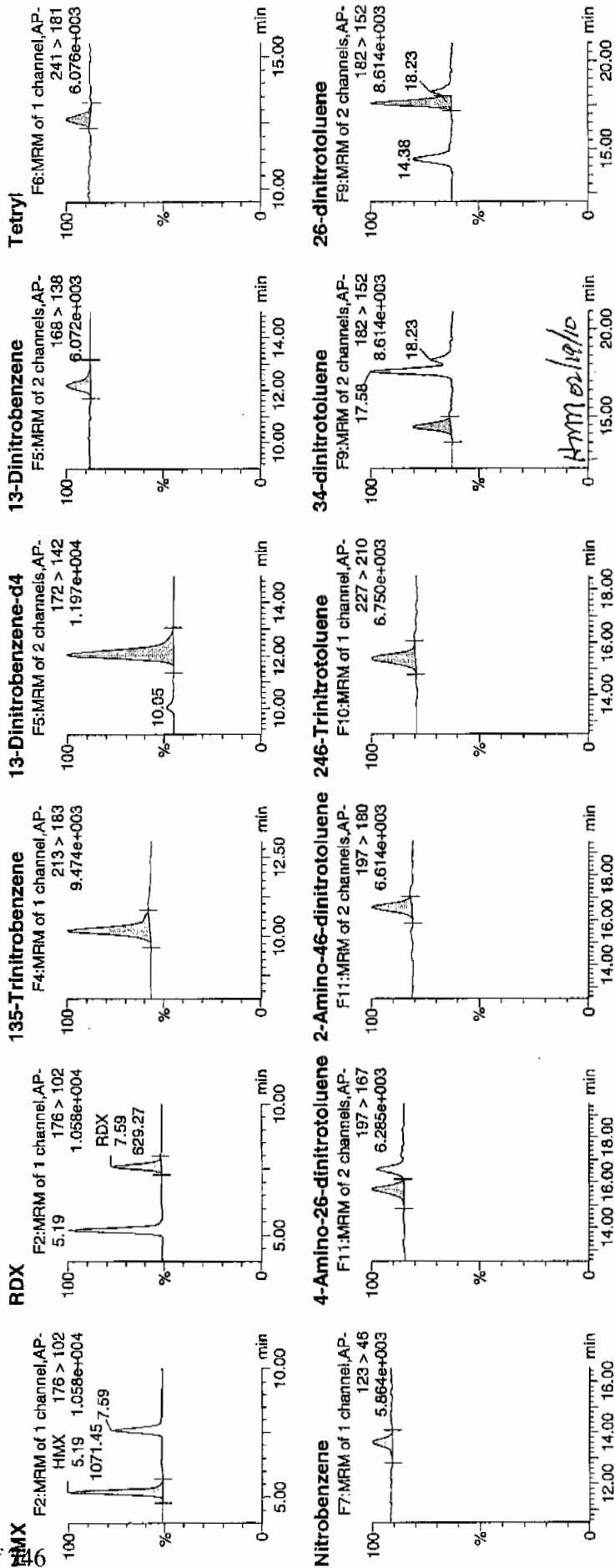
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Time: 07:51:13

ID: WXX100216-08CRI

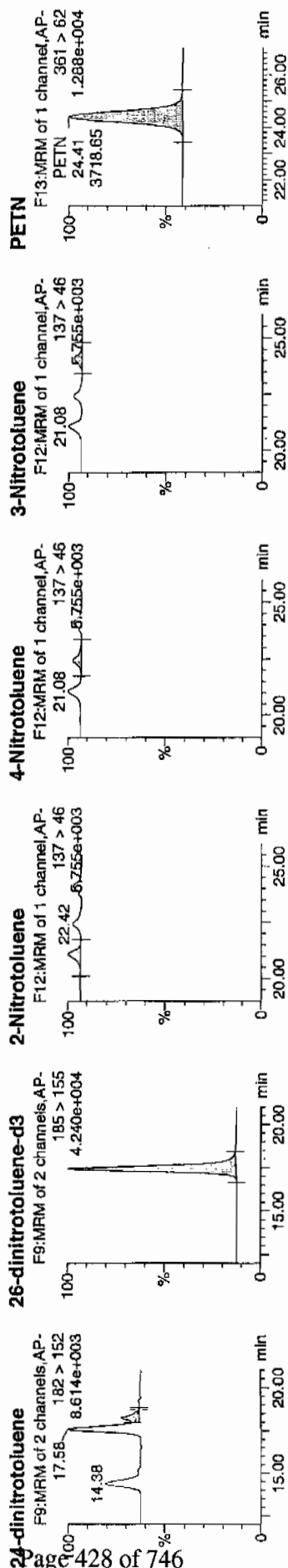
Vial: 1:1,C

1/19/10



Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA2.qld, Time: Fri Feb 19 08:48:26 2010



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	mg/ml	% Rec	% Dev	SN
WXX100216-08CRI	HMX	176 > 102	5.19	1071.448	2709.986	1071.448	197.685	bb			51.2353	128.1	28.1	254.9
WXX100216-08CRI	RDX	176 > 102	7.59	629.268	2709.986	629.268	116.102	bb			44.7674	111.9	11.9	136.1
WXX100216-08CRI	135-Trinitrobenzene	213 > 183	10.18	1167.005	2709.986	1167.005	215.316	bb			55.6006	139.0	39.0	134.4
WXX100216-08CRI	13-Dinitrobenzene-d4	172 > 142	12.03	2709.986	2709.986	2709.986	2709.986	bb			449.8027	90.0	-10.0	92.3
WXX100216-08CRI	13-Dinitrobenzene	168 > 138	12.20	301.476	2709.986	301.476	55.623	bb			46.8004	117.0	17.0	31.1
WXX100216-08CRI	Tetryl	241 > 181	12.68	247.547	2709.986	247.547	45.673	bb			41.8930	104.7	4.7	23.4
WXX100216-08CRI	Nitrobenzene	123 > 46	13.63	208.814	2709.986	208.814	38.527	bb			44.8763	112.2	12.2	15.4
WXX100216-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	370.375	14907.007	370.375	12.423	MM	19-Feb-10	08:40:47	38.7951	97.0	-3.0	37.6
WXX100216-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	479.459	14907.007	479.459	16.082	bb			37.2214	93.1	-6.9	51.1
WXX100216-08CRI	246-Trinitrotoluene	227 > 210	15.38	557.049	14907.007	557.049	18.684	bb			55.7311	139.3	39.3	59.0
WXX100216-08CRI	34-dinitrotoluene	182 > 152	14.38	700.235	14907.007	700.235	23.487	bb			25.9236	129.6	29.6	54.4
WXX100216-08CRI	26-dinitrotoluene	182 > 152	17.58	1244.735	14907.007	1244.735	41.750	MM	19-Feb-10	08:44:46	39.4076	98.5	-1.5	115.4
WXX100216-08CRI	26-dinitrotoluene	182 > 152	18.23	298.548	14907.007	298.548	10.014	MM	19-Feb-10	08:44:53	40.6217	101.6	1.6	28.4
WXX100216-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	14907.007	14907.007	14907.007	14907.007	bb			428.1517	85.6	-14.4	1997.5
WXX100216-08CRI	2-Nitrotoluene	137 > 46	21.08	178.632	14907.007	178.632	5.992	bb			39.3678	98.4	-1.6	20.2
WXX100216-08CRI	4-Nitrotoluene	137 > 46	22.42	125.170	14907.007	125.170	4.198	bb			54.7723	136.9	36.9	13.4
WXX100216-08CRI	3-Nitrotoluene	137 > 46	24.11	118.801	14907.007	118.801	3.985	bb			44.5276	111.3	11.3	12.6
WXX100216-08CRI	PETN	361 > 62	24.41	3718.648	14907.007	3718.648	124.728	bb			54.0040	135.0	35.0	1127.1

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/19/10
 Time of Injection 0751
 Standard Number WXX100216-08CRI
 Data File EXP0216128a

HMX	128.1	✓
RDX	111.9	✓
135-TNB	139.0	✓
13-DNB	117.0	
Tetryl	104.7	
Nitrobenzene	112.2	
4A-26-DNT	97.0	
2A-46-DNT	93.1	
246-TNT	139.3	
34-DNT(surr)	129.6	
26-DNT	98.5	
24-DNT	101.6	
2-NT	98.4	
4-NT	136.9	
3-NT	111.3	
PETN	135.0	

*WAF
2/19/10*

Total 1853.6

Average 115.9 ✓

WAF 02/19/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216139a

Analysis Date: 19-FEB-10 13:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Tetryl	600	569.897	95	
m-Dinitrobenzene	600	615.3	103	
m-Nitrotoluene	600	562.081	94	
o-Nitrotoluene	600	617.05	103	
p-Nitrotoluene	600	581.656	97	
1,3,5-Trinitrobenzene	600	581.663	97	
1,3-Dinitrobenzene-d4	500	443.331	89	
2,4,6-Trinitrotoluene	600	659.577	110	
2,4-Dinitrotoluene	600	628.747	105	
2,6-Dinitrotoluene	600	636.836	106	
2,6-Dinitrotoluene-d3	500	420.393	84	
2-Amino-4,6-dinitrotoluene	600	637.114	106	
3,4-Dinitrotoluene	300	320.79	107	
4-Amino-2,6-dinitrotoluene	600	595.642	99	
HMX	600	592.154	99	
Nitrobenzene	600	551.705	92	
PETN	600	668.485	111	
RDX	600	661.851	110	

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

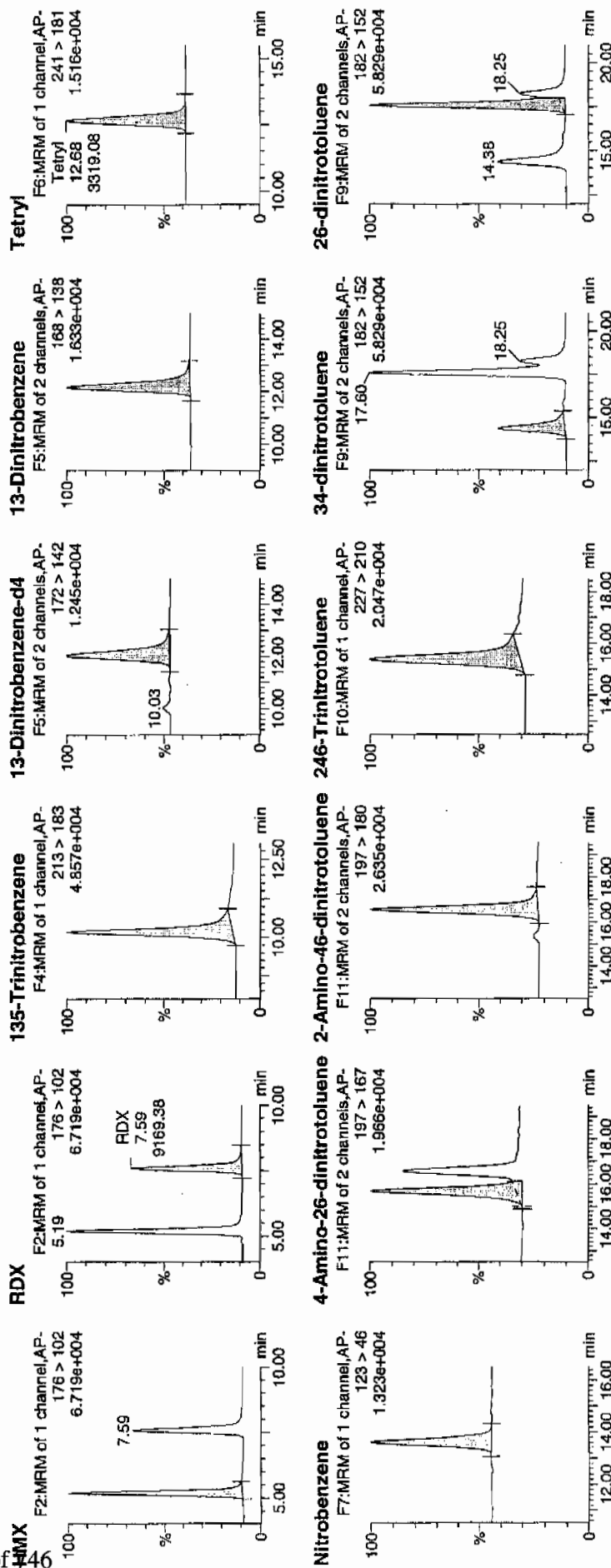
Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216139a

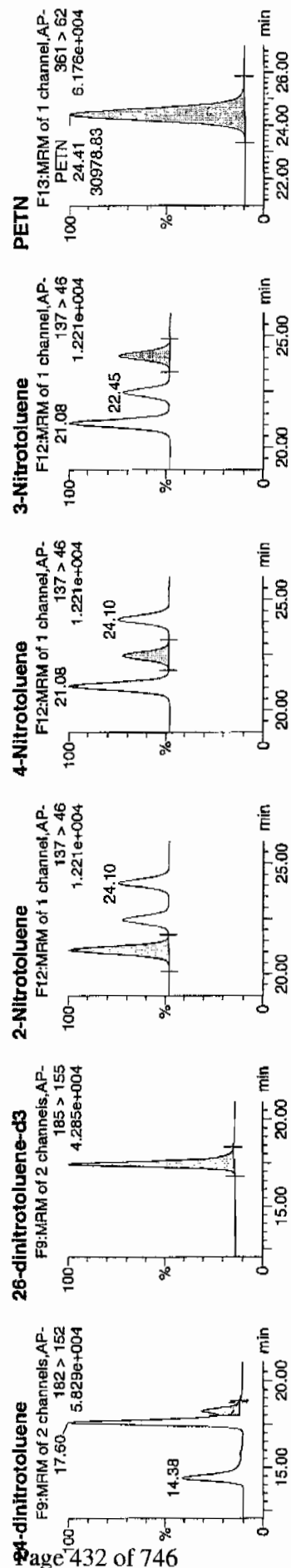
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Time: 13:16:57
ID: WXX100219-07CCV
Mail: 1:1,B

1/21/10



1/21/10

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



Name	Trace	RT	SArea	SArea	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	Norm	%Rec	%Dev	SN
HMX	176 > 102	5.19	12205.122	2670.995	12205.122	2284.752	bb			592.1540	98.7	-1.3	1579.1
RDX	176 > 102	7.59	9169.379	2670.995	9169.379	1716.473	bb			661.8509	110.3	10.3	1007.2
135-Trinitrobenzene	213 > 183	10.18	12032.914	2670.995	12032.914	2252.515	bb			581.6628	96.9	-3.1	315.0
13-Dinitrobenzene-d4	172 > 142	12.03	2670.995		2670.995	2670.995	bb			443.3310	88.7	-11.3	218.1
13-Dinitrobenzene	168 > 138	12.17	3906.578	2670.995	3906.578	731.296	bb			615.3000	102.6	2.6	376.1
Tetryl	241 > 181	12.68	3319.083	2670.995	3319.083	621.320	bb			569.8966	95.0	-5.0	282.6
Nitrobenzene	123 > 46	13.63	2530.200	2670.995	2530.200	473.644	bb			551.7047	92.0	-8.0	232.8
4-Amino-2,6-dinitrotoluene	197 > 167	15.68	5583.528	14636.881	5583.528	190.7935	MM	20-Feb-10	10:04:05	595.6423	99.3	-0.7	161.9
2-Amino-4,6-dinitrotoluene	197 > 180	16.58	8058.131	14636.881	8058.131	275.268	bb			637.1136	106.2	6.2	451.8
2,4,6-Trinitrotoluene	227 > 210	15.38	6473.199	14636.881	6473.199	221.126	bb			659.5769	109.9	9.9	711.6
3,4-dinitrotoluene	182 > 152	14.38	8508.010	14636.881	8508.010	290.636	bb			320.7900	106.9	6.9	353.2
2,6-dinitrotoluene	182 > 152	17.60	19750.691	14636.881	19750.691	674.689	MM	20-Feb-10	10:10:22	636.8355	106.1	6.1	1036.7
2,4-dinitrotoluene'	182 > 152	18.25	4537.216	14636.881	4537.216	154.993	MM	20-Feb-10	10:10:57	628.7467	104.8	4.8	222.0
2,6-dinitrotoluene-d3	185 > 155	17.42	14636.881		14636.881	14636.881	bb			420.3993	84.1	-15.9	1348.8
2-Nitrotoluene	137 > 46	21.08	2749.140	14636.881	2749.140	93.911	bb			617.0500	102.8	2.8	710.2
4-Nitrotoluene	137 > 46	22.45	1305.160	14636.881	1305.160	44.585	bb			581.6559	96.9	-3.1	328.4
3-Nitrotoluene	137 > 46	24.10	1472.474	14636.881	1472.474	50.300	bb			582.0813	93.7	-6.3	362.2
PETN	361 > 62	24.41	30978.832	14636.881	30978.832	1056.246	bb			668.4848	111.4	11.4	8528.1

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/19/10
 Time of Injection: 1316
 Standard Number: WXX100219-07CCV
 Data File: EXP0216139a

HMX	98.7
RDX	110.3
135-TNB	96.9
13-DNB	102.6
Tetryl	95.0
Nitrobenzene	92.0
4A-26-DNT	99.3
2A-46-DNT	106.2
246-TNT	109.9
34-DNT(surr)	106.9
26-DNT	106.1
24-DNT	104.8
2-NT	102.8
4-NT	96.9
3-NT	93.7
PETN	111.4

*WXX
2/20/10*

Total 1633.5

Average 102.1

done 02/21/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216141a

Analysis Date: 19-FEB-10 14:38

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	51.493	129	
1,3-Dinitrobenzene-d4	500	432.424	86	
2,4,6-Trinitrotoluene	40	45.9	115	
2,4-Dinitrotoluene	40	37.747	94	
2,6-Dinitrotoluene	40	40.216	101	
2,6-Dinitrotoluene-d3	500	427.034	85	
2-Amino-4,6-dinitrotoluene	40	39.792	99	
3,4-Dinitrotoluene	20	19.371	97	
4-Amino-2,6-dinitrotoluene	40	39.356	98	
HMX	40	40.293	101	
Nitrobenzene	40	37.237	93	
PETN	40	46.953	117	
RDX	40	40.492	101	
Tetryl	40	47.198	118	
m-Dinitrobenzene	40	42.001	105	
m-Nitrotoluene	40	28.745	72	
o-Nitrotoluene	40	40.324	101	
p-Nitrotoluene	40	44.263	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

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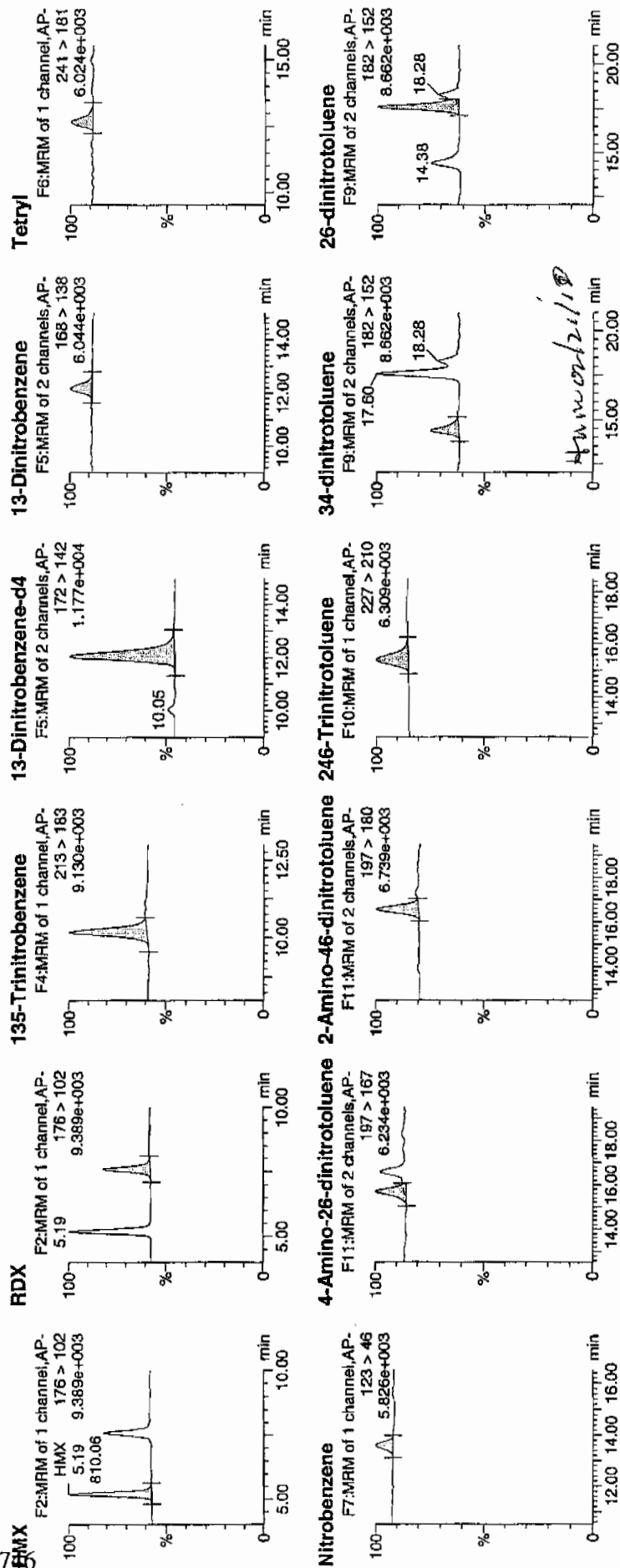
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Time: 14:38:39

ID: WXX100219-08CRI

Vial: 1:1,C

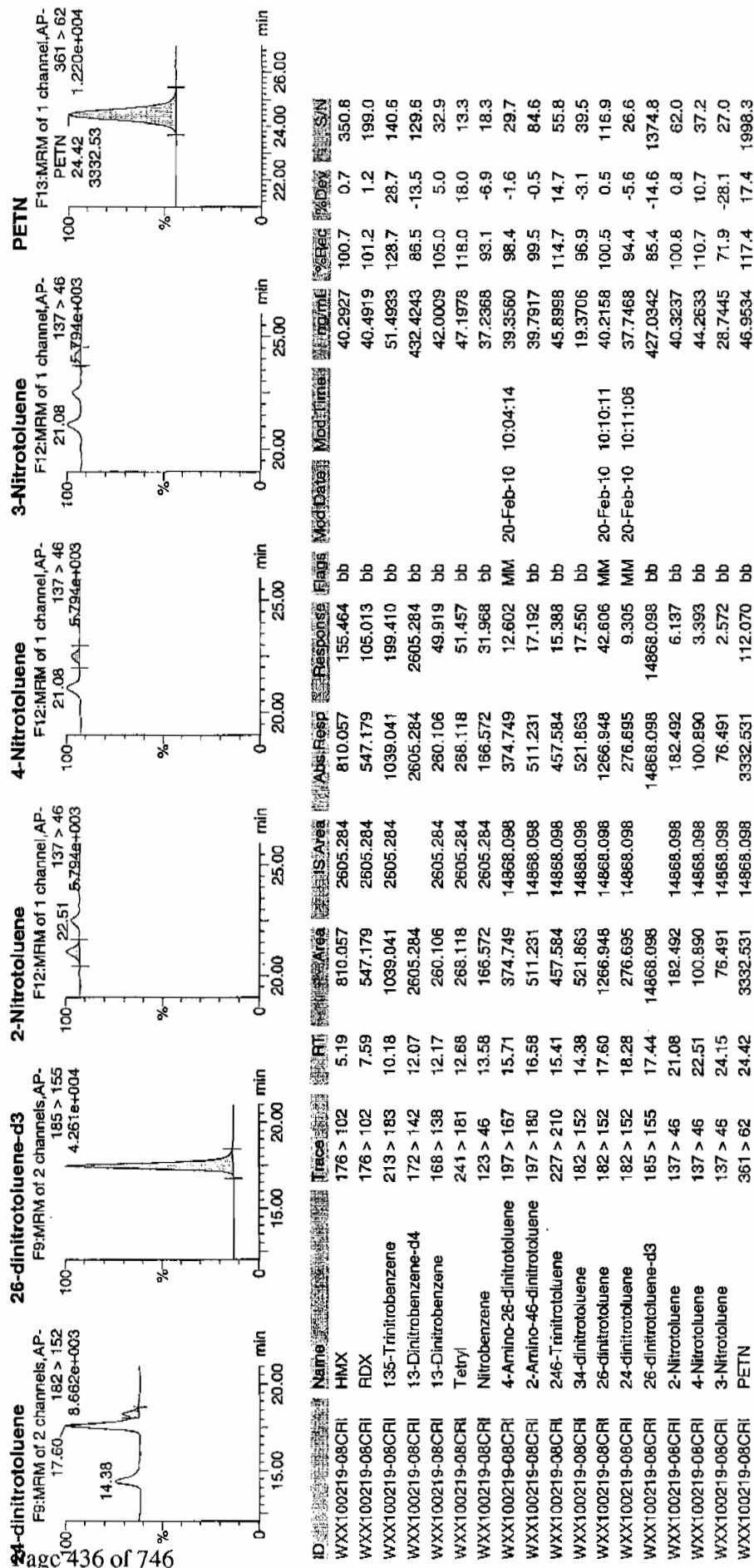
1/12/10



Printed: Sat Feb 20 10:19:24 2010, Page 26 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/19/10
 Time of Injection 1438
 Standard Number WXX100219-08CRI
 Data File EXP0216141a

HMX	100.7
RDX	101.2
135-TNB	128.7
13-DNB	105.0
Tetryl	118.0
Nitrobenzene	93.1
4A-26-DNT	98.4
2A-46-DNT	99.5
246-TNT	114.7
34-DNT(surr)	96.9
26-DNT	100.5
24-DNT	94.4
2-NT	100.8
4-NT	110.7
3-NT	71.9
PETN	117.4

*mt
2/20/10*

Total 1651.9

Average 103.2

4/11/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216152a

Analysis Date: 19-FEB-10 20:04

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	585.615	98	
1,3-Dinitrobenzene-d4	500	433.279	87	
2,4,6-Trinitrotoluene	600	622.918	104	
2,4-Dinitrotoluene	600	632.455	105	
2,6-Dinitrotoluene	600	610.704	102	
2,6-Dinitrotoluene-d3	500	405.063	81	
2-Amino-4,6-dinitrotoluene	600	607.913	101	
3,4-Dinitrotoluene	300	354.753	118	
4-Amino-2,6-dinitrotoluene	600	546.925	91	
HMX	600	513.424	86	
Nitrobenzene	600	539.863	90	
PETN	600	705.299	118	
RDX	600	587.648	98	
Tetryl	600	522.811	87	
m-Dinitrobenzene	600	623.69	104	
m-Nitrotoluene	600	566.188	94	
o-Nitrotoluene	600	572.566	95	
p-Nitrotoluene	600	581.489	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

Dataset: C:\MASSLYN\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

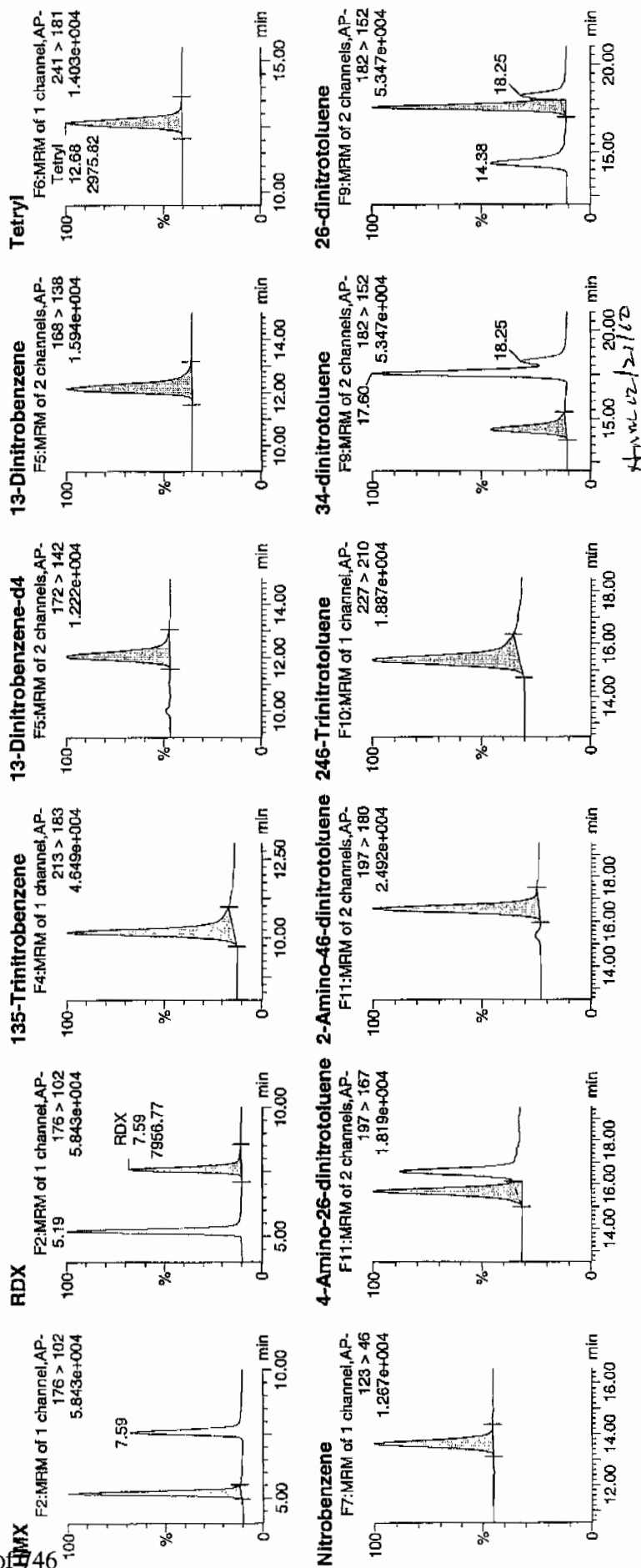
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Date: 19-Feb-2010

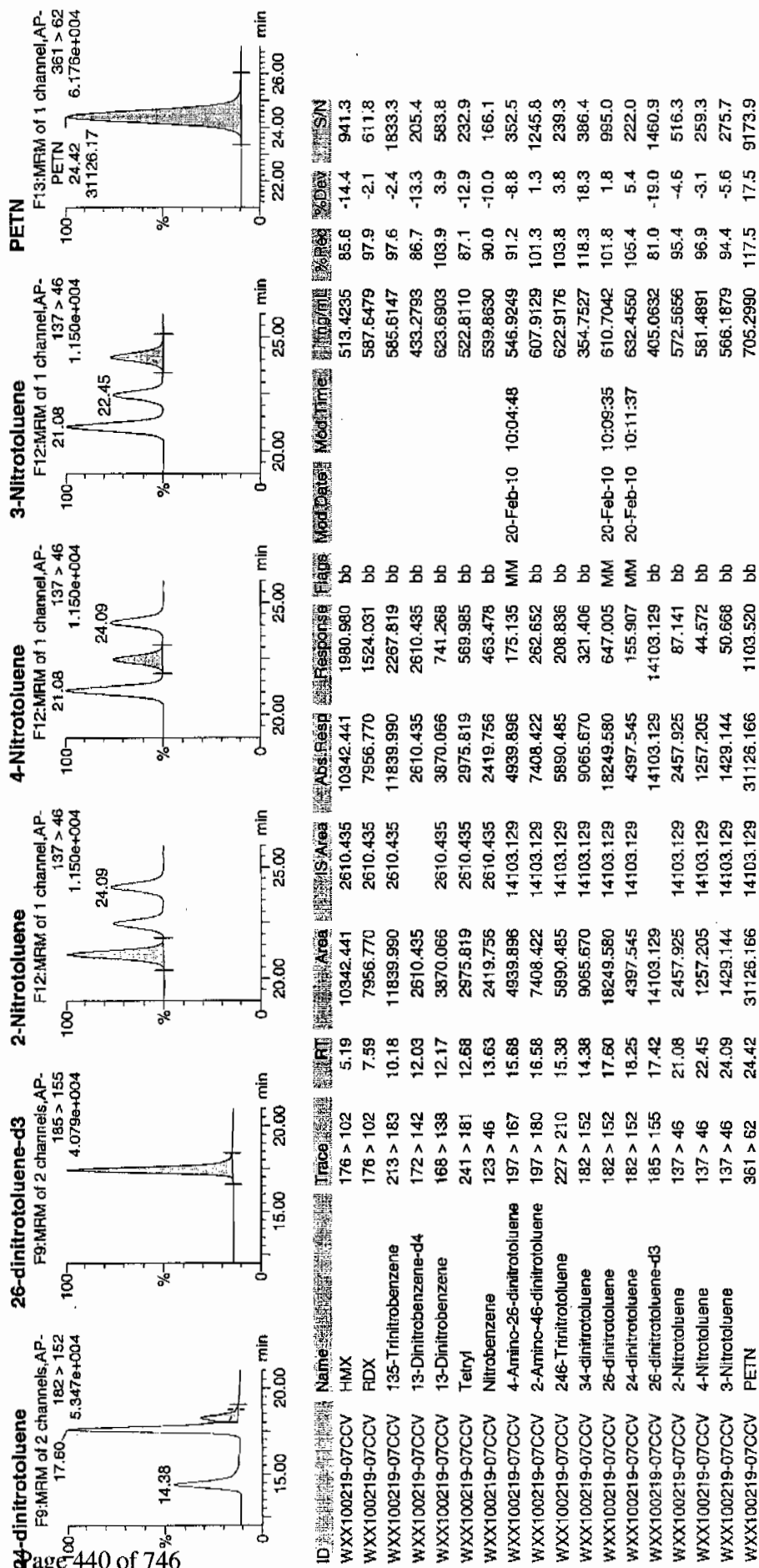
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ID: WXX100219-07CCV

Scale: 1:1.8



Dataset: C:\MASSLYNX\New_Exp\PRO021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/19/10
 Time of Injection: 2004
 Standard Number: WXX100219-07CCV
 Data File: EXP0216152a

HMX	85.6
RDX	97.9
135-TNB	97.6
13-DNB	103.9
Tetryl	87.1
Nitrobenzene	90.0
4A-26-DNT	91.2
2A-46-DNT	101.3
246-TNT	103.8
34-DNT(surr)	118.3
26-DNT	101.8
24-DNT	105.4
2-NT	95.4
4-NT	96.9
3-NT	94.4
PETN	117.5

*not
2/19/10*

Total 1588.1

Average 99.3

done 2/21/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216154a

Analysis Date: 19-FEB-10 21:04

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene	40	43.032	108	
2,6-Dinitrotoluene-d3	500	422.29	84	
2-Amino-4,6-dinitrotoluene	40	33.702	84	
3,4-Dinitrotoluene	20	18.829	94	
4-Amino-2,6-dinitrotoluene	40	39.443	99	
HMX	40	39.672	99	
Nitrobenzene	40	34.869	87	
PETN	40	50.568	126	
RDX	40	44.347	111	
Tetryl	40	41.943	105	
m-Dinitrobenzene	40	42.885	107	
m-Nitrotoluene	40	30.88	77	
o-Nitrotoluene	40	43.984	110	
p-Nitrotoluene	40	47.734	119	
1,3,5-Trinitrobenzene	40	50.147	125	
1,3-Dinitrobenzene-d4	500	450.637	90	
2,4,6-Trinitrotoluene	40	41.511	104	
2,4-Dinitrotoluene	40	34.056	85	

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\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

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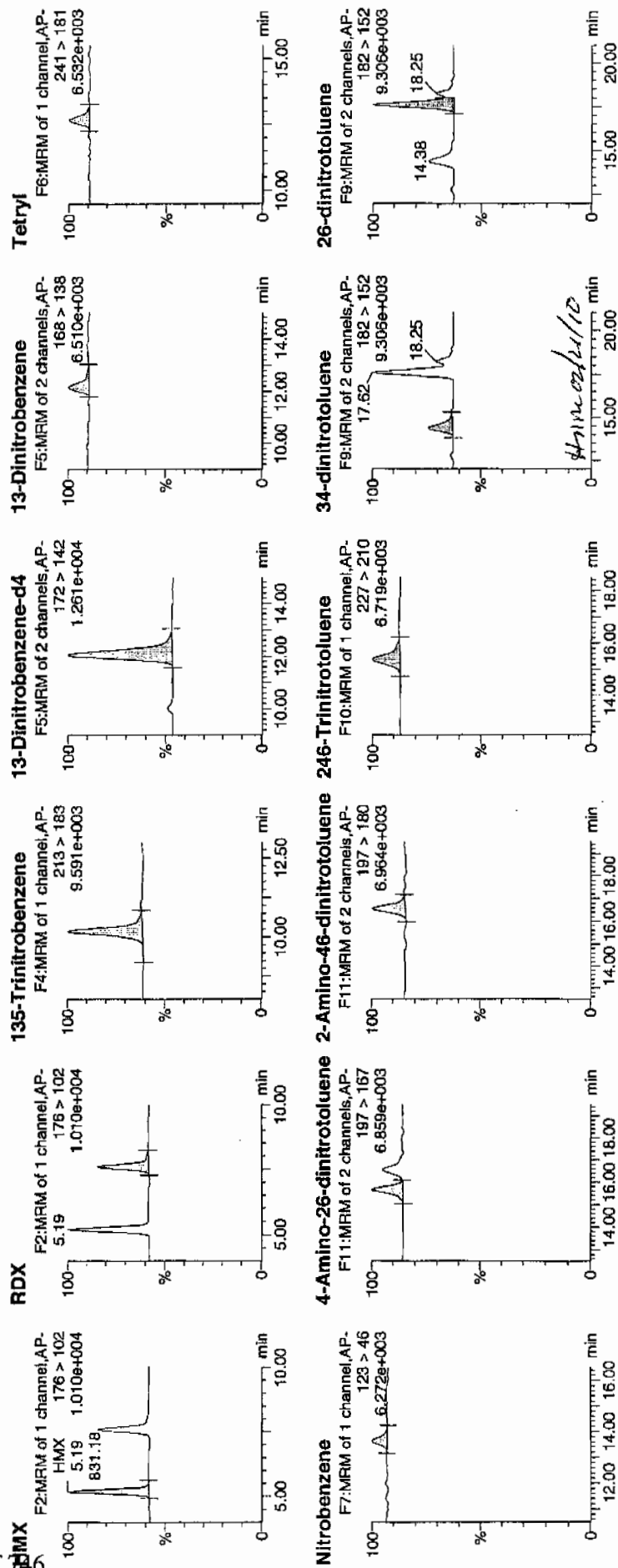
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Vial: 1:1,C

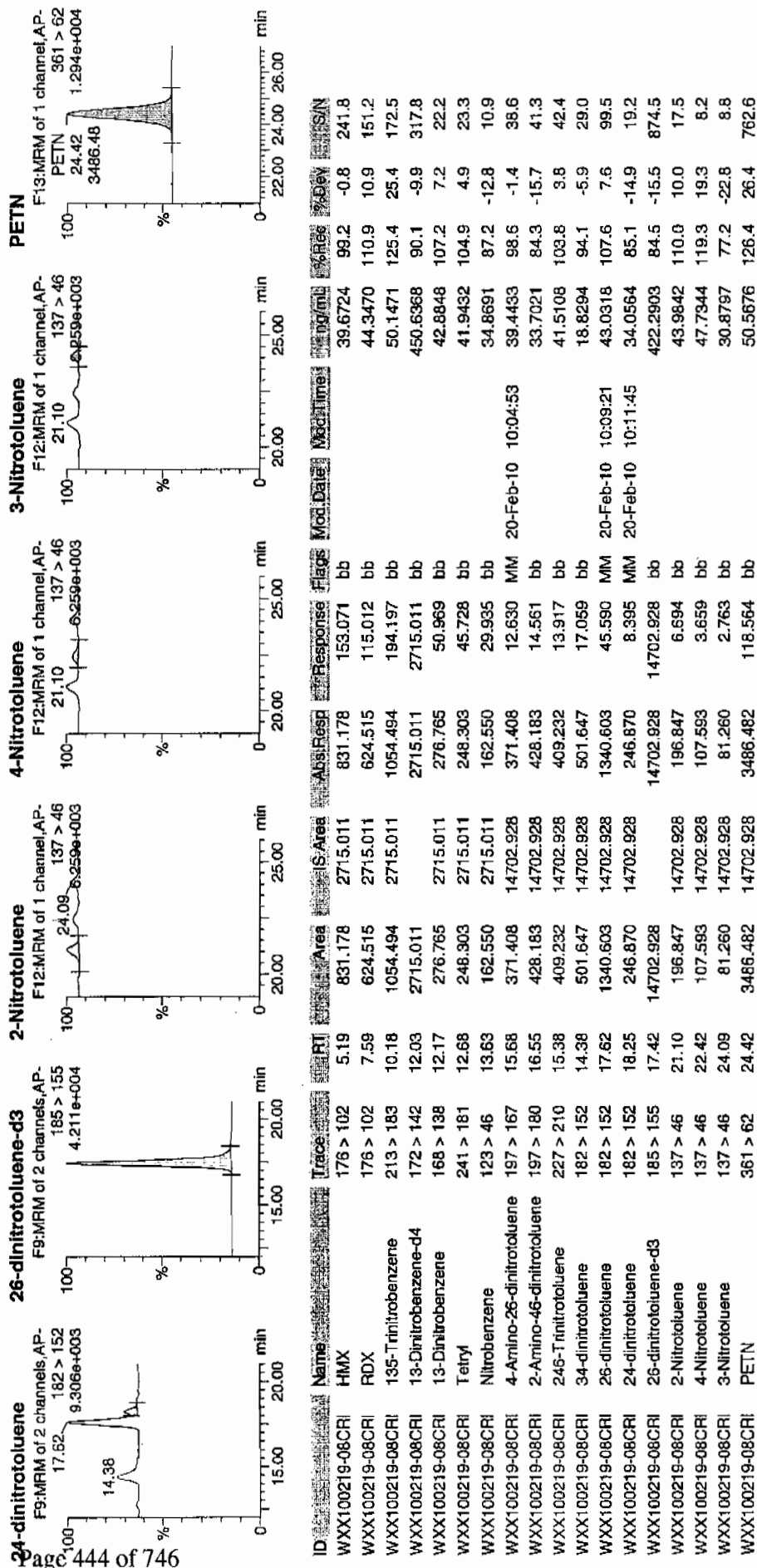
WXX
2/20/10



Printed: Sat Feb 20 10:19:24 2010, Page 52 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/19/10
 Time of Injection 2104
 Standard Number WXX100219-08CRI
 Data File EXP0216154a

HMX	99.2
RDX	110.9
135-TNB	125.4
13-DNB	107.2
Tetryl	104.9
Nitrobenzene	87.2
4A-26-DNT	98.6
2A-46-DNT	84.3
246-TNT	103.8
34-DNT(surr)	94.1
26-DNT	107.6
24-DNT	85.1
2-NT	110.0
4-NT	119.3
3-NT	77.2
PETN	126.4

Handwritten: 100%
2/20/10

Total 1641.2

Average 102.6

Handwritten: 100% 02/21/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216165a

Analysis Date: 20-FEB-10 02:30

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	432.19	86	
2-Amino-4,6-dinitrotoluene	600	630.547	105	
3,4-Dinitrotoluene	300	334.157	111	
4-Amino-2,6-dinitrotoluene	600	598.402	100	
HMX	600	628.779	105	
Nitrobenzene	600	589.272	98	
PETN	600	616.152	103	
RDX	600	688.147	115	
Tetryl	600	511.851	85	
m-Dinitrobenzene	600	600.417	100	
m-Nitrotoluene	600	618.203	103	
o-Nitrotoluene	600	675.613	113	
p-Nitrotoluene	600	646.307	108	
1,3,5-Trinitrobenzene	600	556.869	93	
1,3-Dinitrobenzene-d4	500	459.017	92	
2,4,6-Trinitrotoluene	600	686.791	114	
2,4-Dinitrotoluene	600	654.331	109	
2,6-Dinitrotoluene	600	632.741	105	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Feb 20 10:19:24 2010, Page 73 of 103

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

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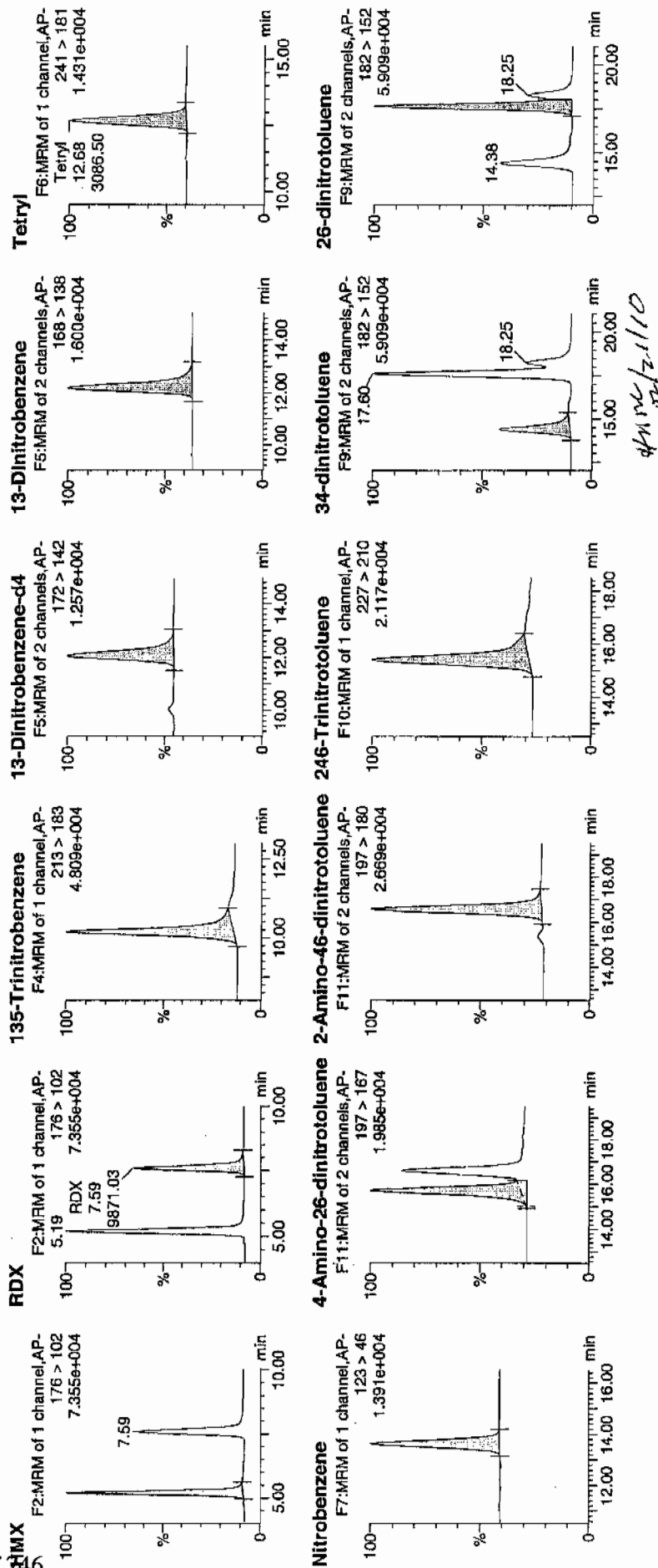
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Vial: 1:1,B

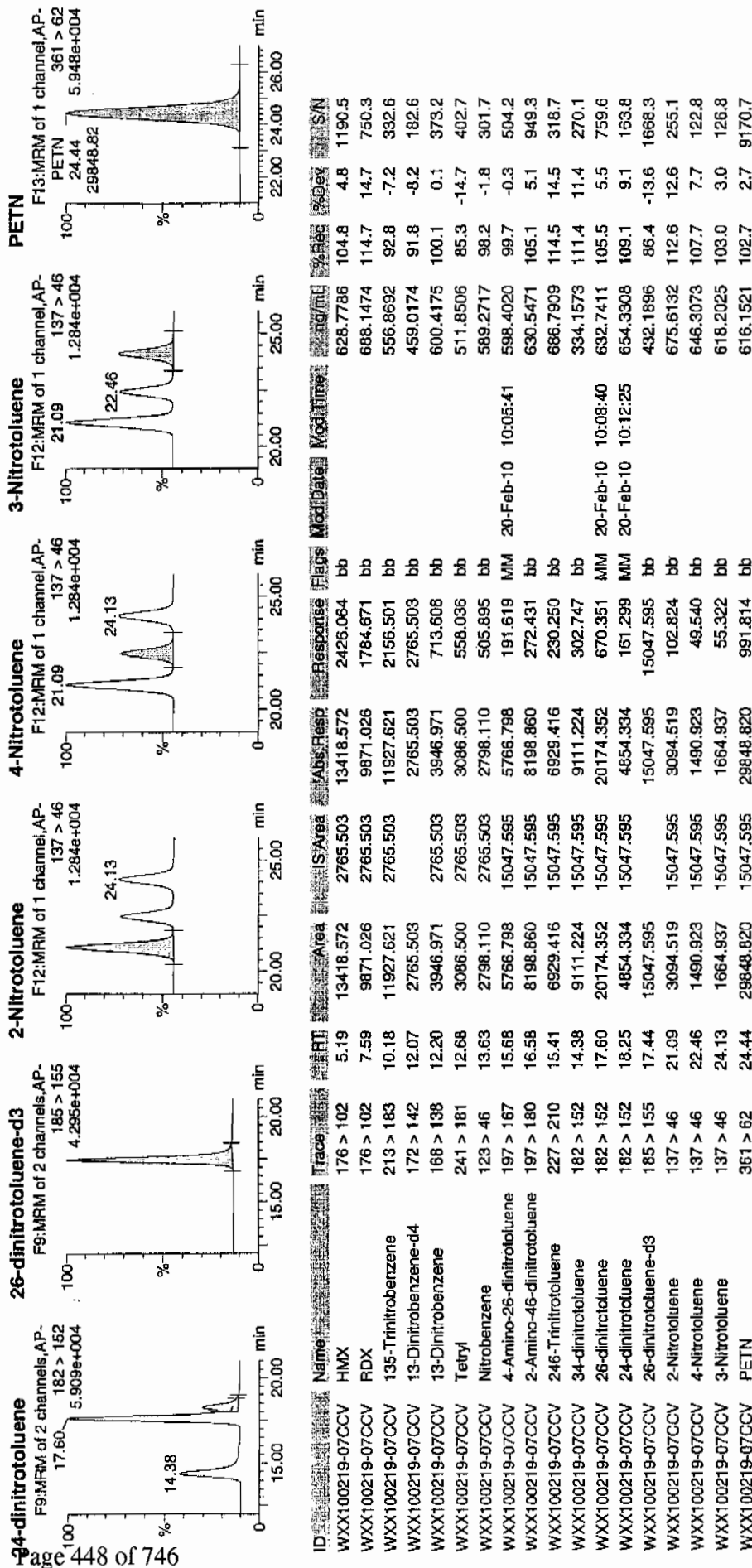
*WXX
2/20/10*



Printed: Sat Feb 20 10:19:24 2010, Page 74 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/20/10
 Time of Injection: 0230
 Standard Number: WXX100219-07CCV
 Data File: EXP0216165a

HMX	104.8
RDX	114.7
135-TNB	92.8
13-DNB	100.1
Tetryl	85.3
Nitrobenzene	98.2
4A-26-DNT	99.7
2A-46-DNT	105.1
246-TNT	114.5
34-DNT(surr)	111.4
26-DNT	105.5
24-DNT	109.1
2-NT	112.6
4-NT	107.7
3-NT	103.0
PETN	102.7

*WTF
2/22/10*

Total 1667.2

Average 104.2

WTF 2/22/10

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): 10-1470

Lab Code: GEI

GEL Sample ID: WXXCRI

GEL Data File EXP0216167a

Analysis Date: 20-FEB-10 03:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	40	46.564	116	
o-Nitrotoluene	40	43.88	110	
p-Nitrotoluene	40	52.931	132	*
1,3,5-Trinitrobenzene	40	56.003	140	*
1,3-Dinitrobenzene-d4	500	461.866	92	
2,4,6-Trinitrotoluene	40	35.563	89	
2,4-Dinitrotoluene	40	35.113	88	
2,6-Dinitrotoluene	40	42.037	105	
2,6-Dinitrotoluene-d3	500	447.009	89	
2-Amino-4,6-dinitrotoluene	40	40.822	102	
3,4-Dinitrotoluene	20	20.486	102	
4-Amino-2,6-dinitrotoluene	40	34.462	86	
HMX	40	39.712	99	
Nitrobenzene	40	40.158	100	
PETN	40	43.603	109	
RDX	40	40.632	102	
Tetryl	40	35.927	90	
m-Dinitrobenzene	40	46.565	116	

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\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216167a

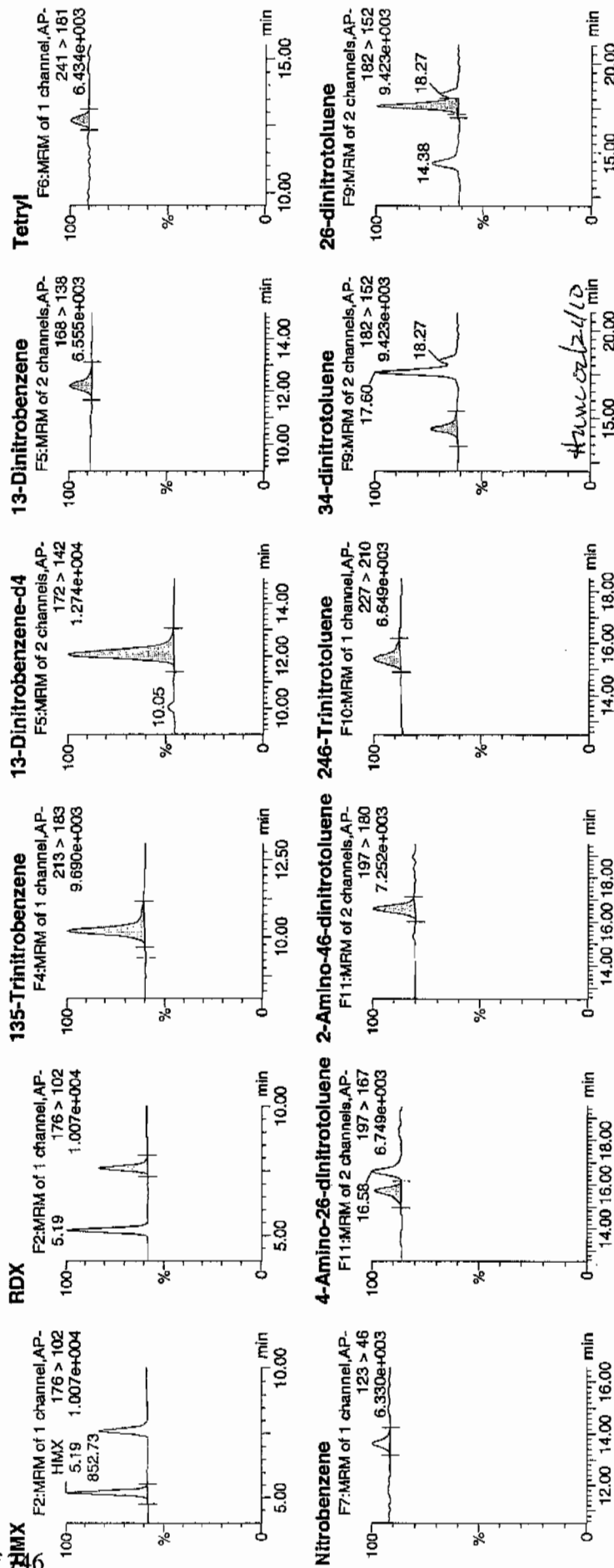
Date: 20-Feb-2010

Time: 03:30:20

ID: WXX100219-08CRI

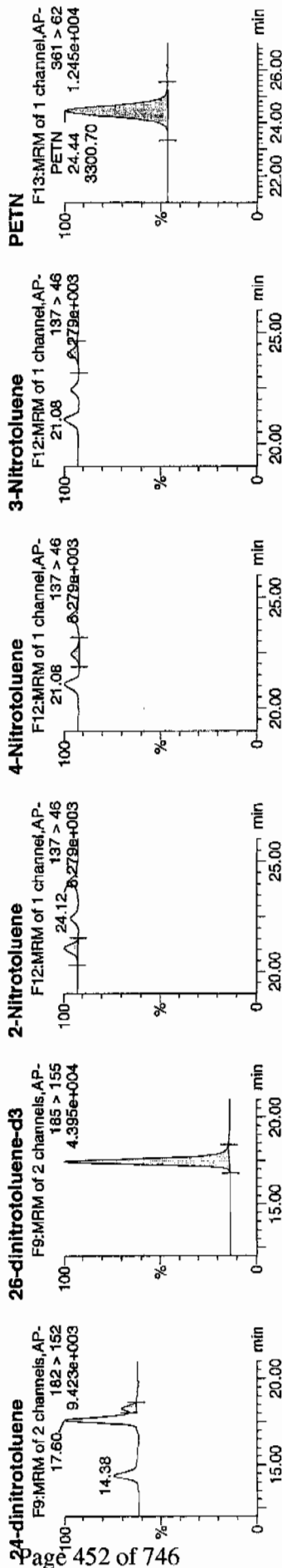
Vial: 1:1,C

2/20/10



Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



ID	Name	Trace	RT	Area	S-Area	Abs Resp	Response	Flags	Mod	Date	Mod Time	Norm	Area	%Dev	S/N
WXX100219-08CRI	HMX	176 > 102	5.19	852.730	2782.665	852.730	153.222	bb				39.7115	99.3	-0.7	230.0
WXX100219-08CRI	RDX	176 > 102	7.59	586.456	2782.665	586.456	105.377	bb				40.6320	101.6	1.6	136.4
WXX100219-08CRI	135-Trinitrobenzene	213 > 183	10.18	1206.980	2782.665	1206.980	216.875	MM	20-Feb-10	10:01:56		56.0032	140.0	40.0	189.4
WXX100219-08CRI	13-Dinitrobenzene	172 > 142	12.07	2782.665		2782.665	2782.665	bb				461.8660	92.4	-7.6	254.2
WXX100219-08CRI	13-Dinitrobenzene	168 > 138	12.20	308.003	2782.665	308.003	55.343	bb				46.5648	116.4	16.4	26.5
WXX100219-08CRI	Tetryl	241 > 181	12.68	217.988	2782.665	217.988	39.169	bb				35.9271	89.8	-10.2	16.9
WXX100219-08CRI	Nitrobenzene	123 > 46	13.63	191.872	2782.665	191.872	34.476	bb				40.1583	100.4	0.4	18.5
WXX100219-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	343.501	15563.579	343.501	11.035	bb				34.4623	86.2	-13.8	26.2
WXX100219-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	548.994	15563.579	548.994	17.637	bb				40.8215	102.1	2.1	28.9
WXX100219-08CRI	246-Trinitrotoluene	227 > 210	15.38	371.118	15563.579	371.118	11.923	bb				35.5629	88.9	-11.1	59.9
WXX100219-08CRI	34-dinitrotoluene	182 > 152	14.38	577.740	15563.579	577.740	18.561	bb				20.4863	102.4	2.4	22.4
WXX100219-08CRI	26-dinitrotoluene	182 > 152	17.60	1386.269	15563.579	1386.269	44.536	MM	20-Feb-10	10:08:31		42.0370	105.1	5.1	68.8
WXX100219-08CRI	24-dinitrotoluene	182 > 152	18.27	269.426	15563.579	269.426	8.656	MM	20-Feb-10	10:12:38		35.1127	87.8	-12.2	13.9
WXX100219-08CRI	26-dinitrotoluene-d3	185 > 155	17.44	15563.579		15563.579	15563.579	bb				447.0095	89.4	-10.6	825.2
WXX100219-08CRI	2-Nitrotoluene	137 > 46	21.08	207.875	15563.579	207.875	6.678	bb				43.8798	109.7	9.7	48.9
WXX100219-08CRI	4-Nitrotoluene	137 > 46	22.43	126.290	15563.579	126.290	4.057	bb				52.9310	132.3	32.3	27.9
WXX100219-08CRI	3-Nitrotoluene	137 > 46	24.12	129.707	15563.579	129.707	4.167	bb				46.5644	116.4	16.4	27.4
WXX100219-08CRI	PETN	361 > 62	24.44	3300.701	15563.579	3300.701	106.039	bb				43.6030	109.0	9.0	354.4

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/20/10
 Time of Injection 0330
 Standard Number WXX100219-08CRI
 Data File EXP0216167a

HMX	99.3
RDX	101.6
135-TNB	140.0
13-DNB	116.4
Tetryl	89.8
Nitrobenzene	100.4
4A-26-DNT	86.2
2A-46-DNT	102.1
246-TNT	88.9
34-DNT(surr)	102.4
26-DNT	105.1
24-DNT	87.8
2-NT	109.7
4-NT	132.3
3-NT	116.4
PETN	109.0

*mtf
2/22/10*

Total 1687.4

Average 105.5

mtf 2/22/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216177a

Analysis Date: 20-FEB-10 08:26

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
m-Nitrotoluene	600	609.973	102	
o-Nitrotoluene	600	659.656	110	
p-Nitrotoluene	600	642.171	107	
1,3,5-Trinitrobenzene	600	597.11	100	
1,3-Dinitrobenzene-d4	500	401.83	80	
2,4,6-Trinitrotoluene	600	672.388	112	
2,4-Dinitrotoluene	600	632.659	105	
2,6-Dinitrotoluene	600	641.568	107	
2,6-Dinitrotoluene-d3	500	402.991	81	
2-Amino-4,6-dinitrotoluene	600	699.831	117	
3,4-Dinitrotoluene	300	342.356	114	
4-Amino-2,6-dinitrotoluene	600	569.079	95	
HMX	600	669.568	112	
Nitrobenzene	600	585.971	98	
PETN	600	541.695	90	
RDX	600	633.284	106	
Tetryl	600	484.225	81	
m-Dinitrobenzene	600	594.511	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216177a

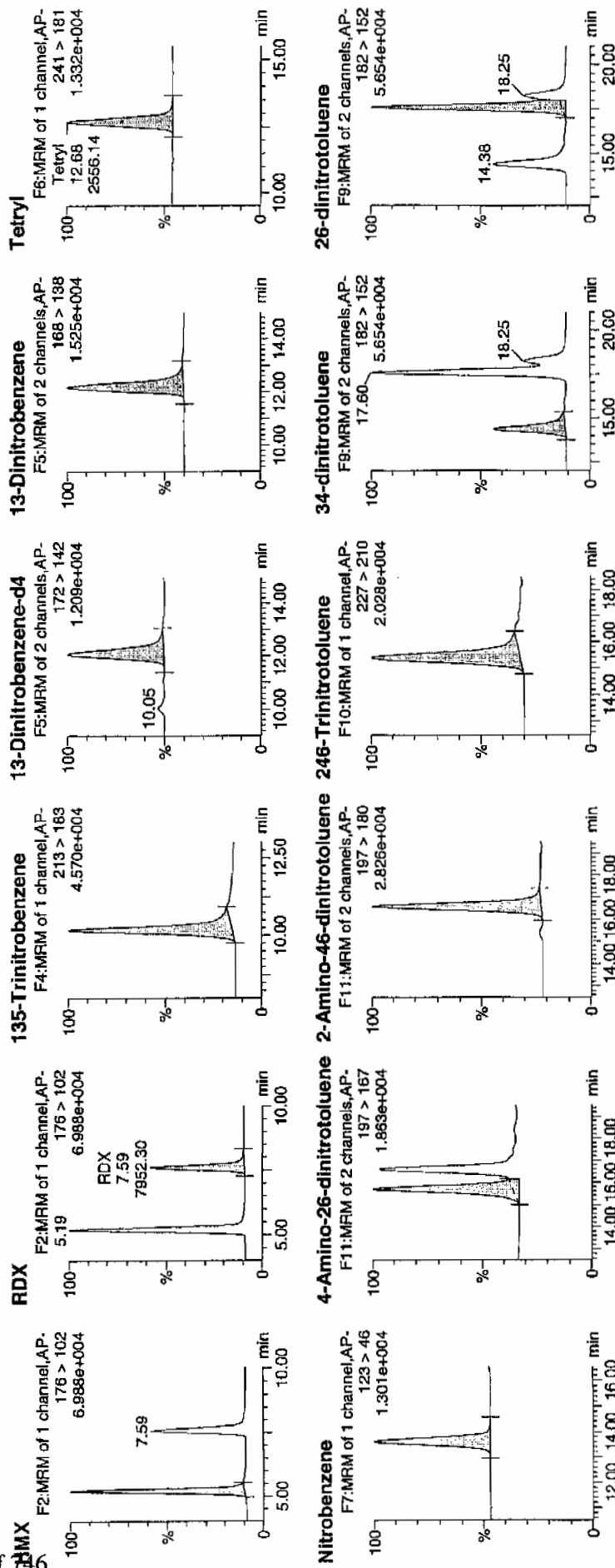
Date: 20-Feb-2010

Time: 08:26:41

ID: WXX100219-07CCV

Vial: 1:1,B

1/20/10
1/20/10

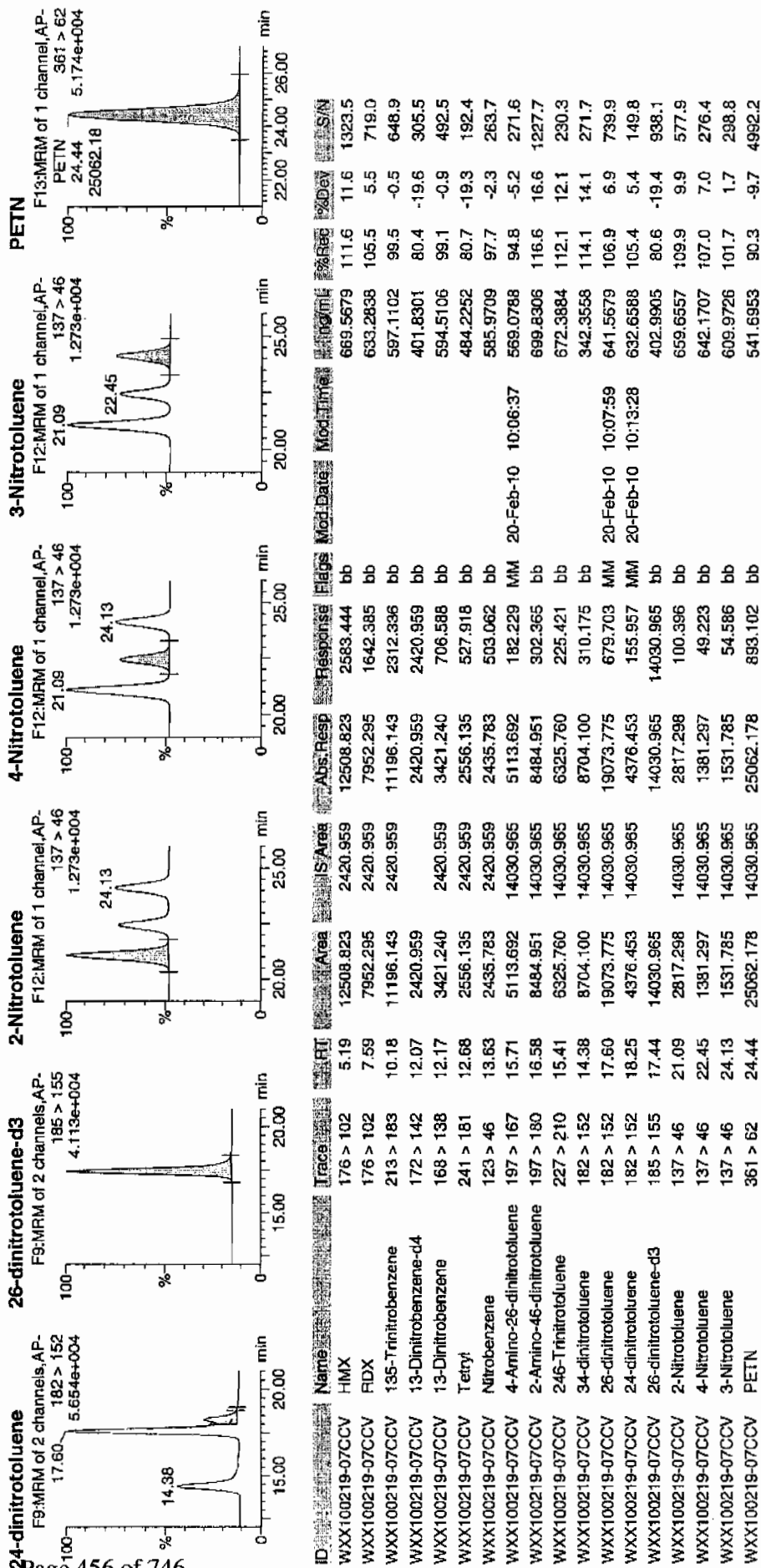


Handwritten: 1/20/10

Printed: Sat Feb 20 10:19:24 2010, Page 98 of 103

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO1021610expA3.qtd, Time: Sat Feb 20 10:13:38 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/20/10
 Time of Injection: 0826
 Standard Number: WXX100219-07CCV
 Data File: EXP0216177a

HMX	111.6
RDX	105.5
135-TNB	99.5
13-DNB	99.1
Tetryl	80.7
Nitrobenzene	97.7
4A-26-DNT	94.8
2A-46-DNT	116.6
246-TNT	112.1
34-DNT(surr)	114.1
26-DNT	106.9
24-DNT	105.4
2-NT	109.9
4-NT	107.0
3-NT	101.7
PETN	90.3

*not
2/20/10*

Total 1652.9

Average 103.3

done 02/21/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216179a

Analysis Date: 20-FEB-10 09:25

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	38.029	95	
1,3-Dinitrobenzene-d4	500	467.621	94	
2,4,6-Trinitrotoluene	40	42.418	106	
2,4-Dinitrotoluene	40	35.714	89	
2,6-Dinitrotoluene	40	42.694	107	
2,6-Dinitrotoluene-d3	500	425.329	85	
2-Amino-4,6-dinitrotoluene	40	43.06	108	
3,4-Dinitrotoluene	20	23.991	120	
4-Amino-2,6-dinitrotoluene	40	41.554	104	
HMX	40	44.103	110	
Nitrobenzene	40	43.726	109	
PETN	40	42.516	106	
RDX	40	44.98	112	
Tetryl	40	33.469	84	
m-Dinitrobenzene	40	46.367	116	
m-Nitrotoluene	40	42.917	107	
o-Nitrotoluene	40	38.507	96	
p-Nitrotoluene	40	32.981	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 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\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0216179a

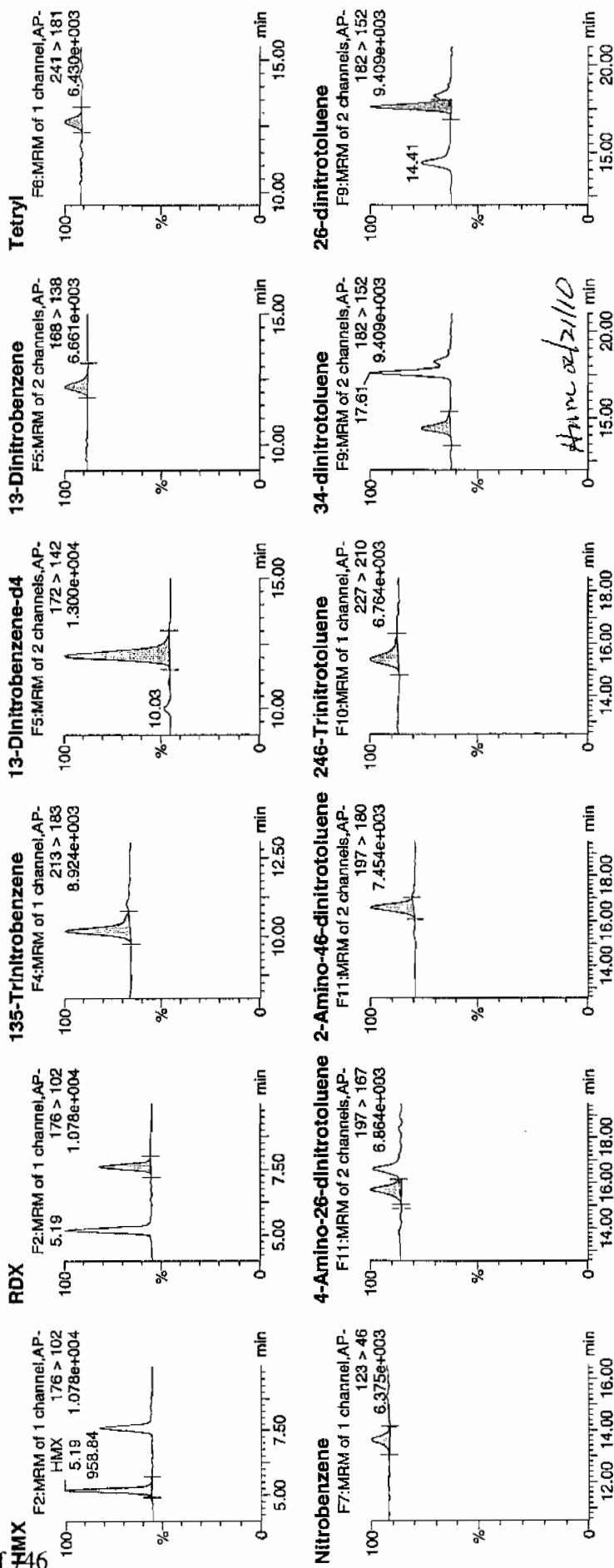
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Time: 09:25:41

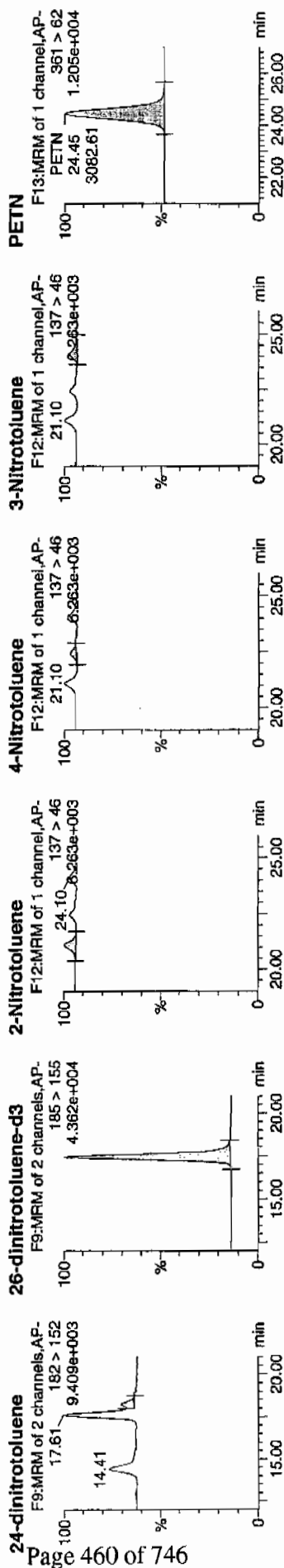
ID: WXX100219-08CRI

Val: 1:1,C

2/22/10



Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA3.qld, Time: Sat Feb 20 10:13:38 2010



ID	Name	Trace	RT	Area	Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Dev	SN
WXX100219-08CRI	HMX	176 > 102	5.19	958.837	2817.335	958.837	170.167	bb	44.1034	110.3	10.3	190.2
WXX100219-08CRI	RDX	176 > 102	7.60	657.295	2817.335	657.295	116.652	bb	44.9796	112.4	12.4	113.9
WXX100219-08CRI	135-Trinitrobenzene	213 > 183	10.18	829.815	2817.335	829.815	147.269	bb	38.0291	95.1	-4.9	106.2
WXX100219-08CRI	13-Dinitrobenzene-d4	172 > 142	12.06	2817.335	2817.335	2817.335	2817.335	bb	467.6205	93.5	-6.5	161.8
WXX100219-08CRI	13-Dinitrobenzene	168 > 138	12.24	310.516	2817.335	310.516	55.108	bb	46.3670	115.9	15.9	40.4
WXX100219-08CRI	Tetryl	241 > 181	12.66	205.605	2817.335	205.605	36.489	bb	33.4693	83.7	-16.3	23.3
WXX100219-08CRI	Nitrobenzene	123 > 46	13.61	211.523	2817.335	211.523	37.540	bb	43.7284	109.3	9.3	21.2
WXX100219-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.70	394.094	14808.711	394.094	13.306	MM	20-Feb-10	10:06:47		
WXX100219-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.59	551.006	14808.711	551.006	18.604	bb	43.0596	107.6	7.6	89.2
WXX100219-08CRI	246-Trinitrotoluene	227 > 210	15.40	421.188	14808.711	421.188	14.221	bb	42.4183	106.0	6.0	25.1
WXX100219-08CRI	34-dinitrotoluene	182 > 152	14.41	643.765	14808.711	643.765	21.736	bb	23.9912	120.0	20.0	22.8
WXX100219-08CRI	26-dinitrotoluene	182 > 152	17.61	1339.638	14808.711	1339.638	45.231	MM	20-Feb-10	10:07:53		
WXX100219-08CRI	24-dinitrotoluene	182 > 152	18.24	260.751	14808.711	260.751	8.804	MM	20-Feb-10	10:13:38		
WXX100219-08CRI	26-dinitrotoluene-d3	185 > 155	17.43	14808.711	14808.711	14808.711	14808.711	bb	425.3285	85.1	-14.9	1243.4
WXX100219-08CRI	2-Nitrotoluene	137 > 46	21.10	173.574	14808.711	173.574	5.861	bb	38.5070	96.3	-3.7	68.5
WXX100219-08CRI	4-Nitrotoluene	137 > 46	22.44	74.873	14808.711	74.873	2.528	bb	32.9806	82.5	-17.5	34.0
WXX100219-08CRI	3-Nitrotoluene	137 > 46	24.10	113.748	14808.711	113.748	3.841	bb	42.9167	107.3	7.3	39.4
WXX100219-08CRI	PETN	361 > 62	24.45	3082.607	14808.711	3082.607	104.081	bb	42.5162	106.3	6.3	828.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/20/10
 Time of Injection 0925
 Standard Number WXX100219-08CRI
 Data File EXP0216179a

HMX	110.3
RDX	112.4
135-TNB	95.1
13-DNB	115.9
Tetryl	83.7
Nitrobenzene	109.3
4A-26-DNT	103.9
2A-46-DNT	107.6
246-TNT	106.0
34-DNT(surr)	120.0
26-DNT	106.7
24-DNT	89.3
2-NT	96.3
4-NT	82.5
3-NT	107.3
PETN	106.3

*mtf
2/20/10*

Total 1652.6

done 02/20/10

Average 103.3

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216190a

Analysis Date: 20-FEB-10 14:52

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	567.43	95	
RDX	600	754.371	126	*
Tetryl	600	519.863	87	
m-Dinitrobenzene	600	627.347	105	
m-Nitrotoluene	600	515.094	86	
o-Nitrotoluene	600	568.637	95	
p-Nitrotoluene	600	543.273	91	
1,3,5-Trinitrobenzene	600	632.26	105	
1,3-Dinitrobenzene-d4	500	461.676	92	
2,4,6-Trinitrotoluene	600	610.504	102	
2,4-Dinitrotoluene	600	647.235	108	
2,6-Dinitrotoluene	600	628.302	105	
2,6-Dinitrotoluene-d3	500	453.879	91	
2-Amino-4,6-dinitrotoluene	600	629.232	105	
3,4-Dinitrotoluene	300	320.161	107	
4-Amino-2,6-dinitrotoluene	600	552.564	92	
HMX	600	598.916	100	
Nitrobenzene	600	550.216	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

Quantify Sample Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216190a

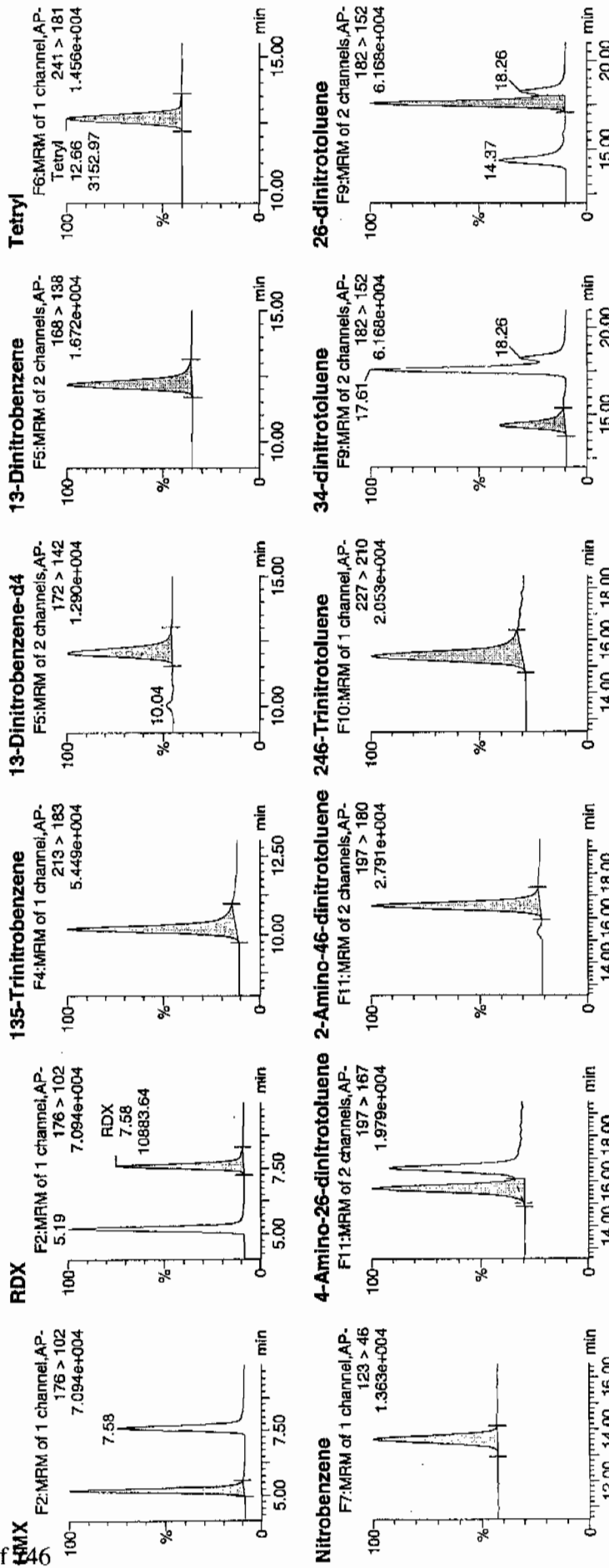
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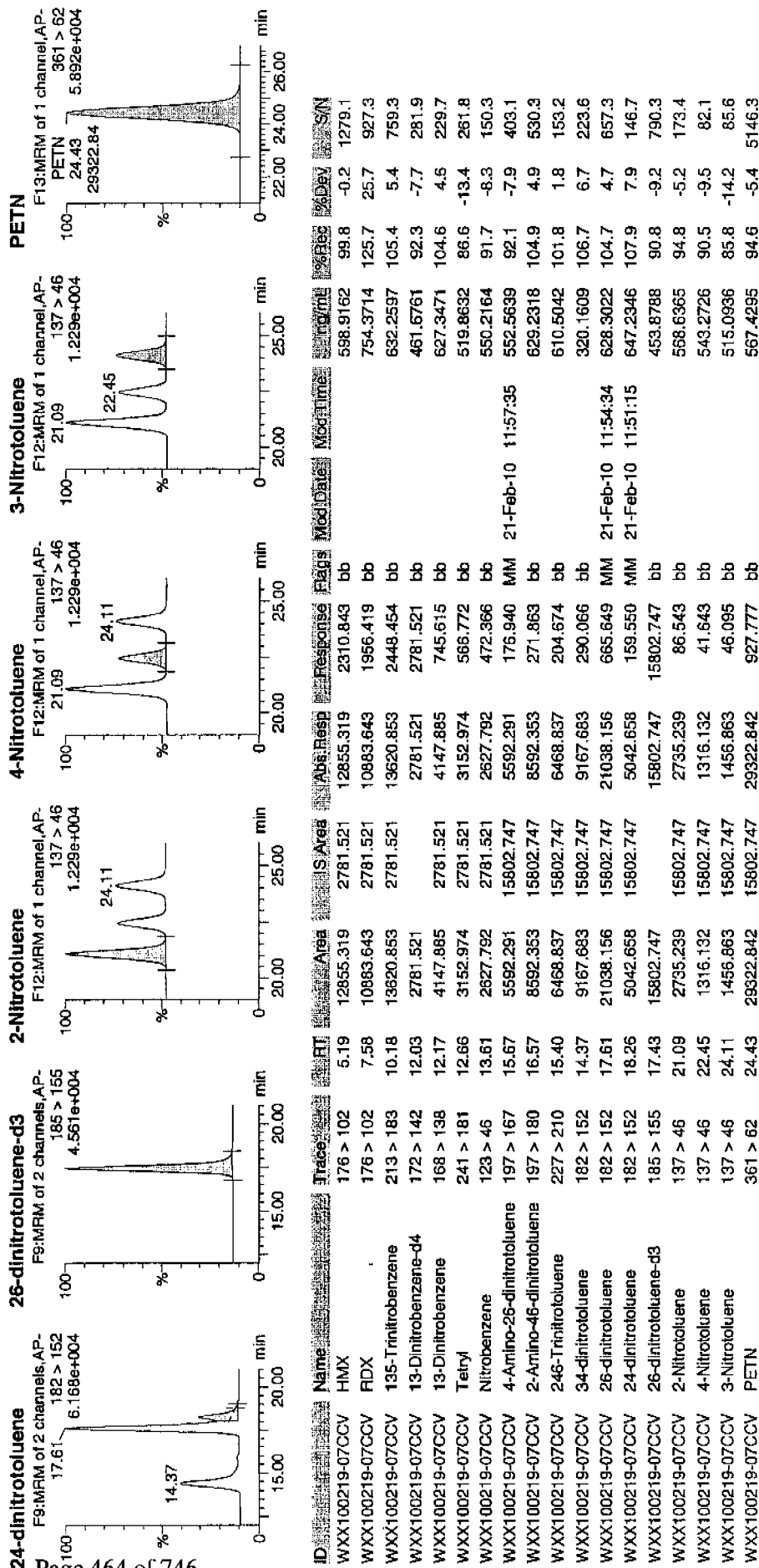
ID: WXX100219-07CCV

Val: 1:1,B

WXX
 2/21/10



Dataset: C:\MASSLYNX\New_Exp\PRO021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/20/10
 Time of Injection: 1452
 Standard Number: WXX100219-07CCV
 Data File: EXP0216190a

HMX	99.8
RDX	125.7
135-TNB	105.4
13-DNB	104.6
Tetryl	86.6
Nitrobenzene	91.7
4A-26-DNT	92.1
2A-46-DNT	104.9
246-TNT	101.8
34-DNT(surr)	106.7
26-DNT	104.7
24-DNT	107.9
2-NT	94.8
4-NT	90.5
3-NT	85.8
PETN	94.6

*100%
2/20/10*

Total 1597.6

Average 99.9

47716 or 122 110

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216192a

Analysis Date: 20-FEB-10 15:52

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	20	21.504	108	
4-Amino-2,6-dinitrotoluene	40	35.217	88	
HMX	40	39.059	98	
Nitrobenzene	40	34.43	86	
PETN	40	46.979	117	
RDX	40	39.647	99	
Tetryl	40	41.334	103	
m-Dinitrobenzene	40	45.747	114	
m-Nitrotoluene	40	45.897	115	
o-Nitrotoluene	40	42.98	107	
p-Nitrotoluene	40	35.861	90	
1,3,5-Trinitrobenzene	40	51.869	130	
1,3-Dinitrobenzene-d4	500	476.034	95	
2,4,6-Trinitrotoluene	40	43.68	109	
2,4-Dinitrotoluene	40	46.942	117	
2,6-Dinitrotoluene	40	42.844	107	
2,6-Dinitrotoluene-d3	500	428.89	86	
2-Amino-4,6-dinitrotoluene	40	45.494	114	

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\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216192a

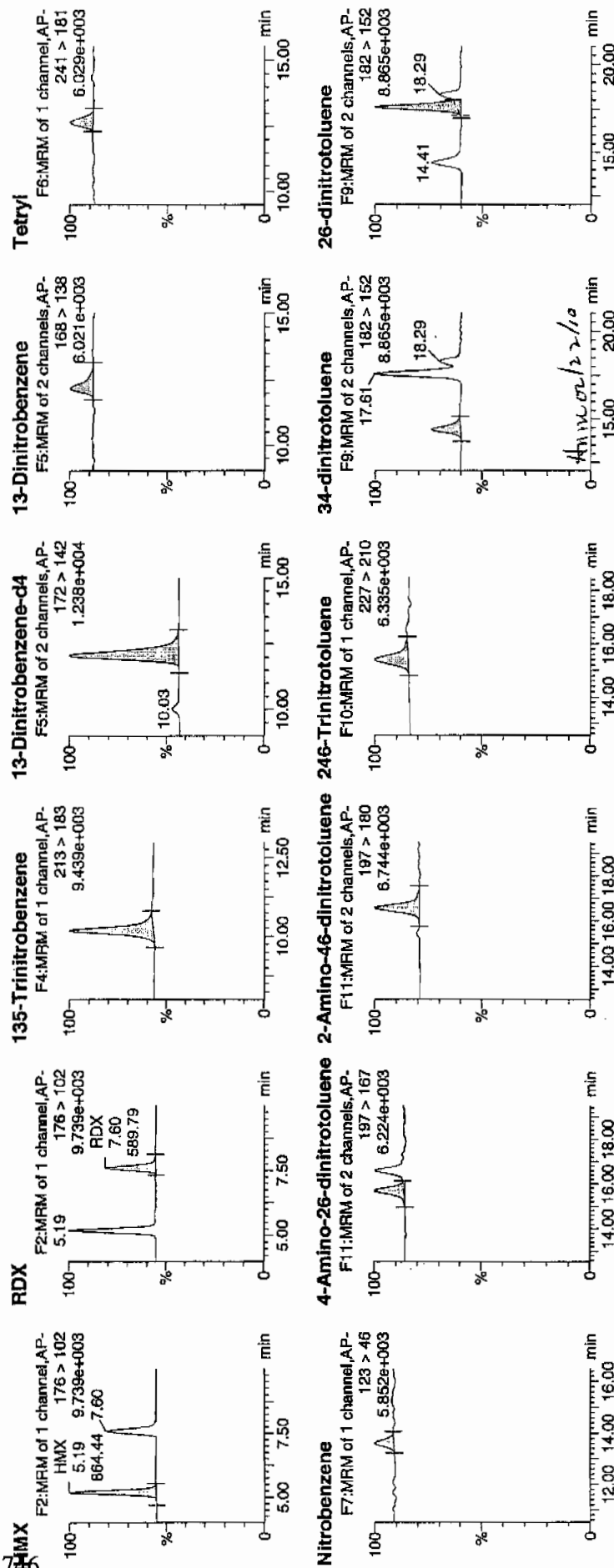
Date: 20-Feb-2010

Time: 15:52:03

ID: WXX100219-08CRI

Vial: 1:1,C

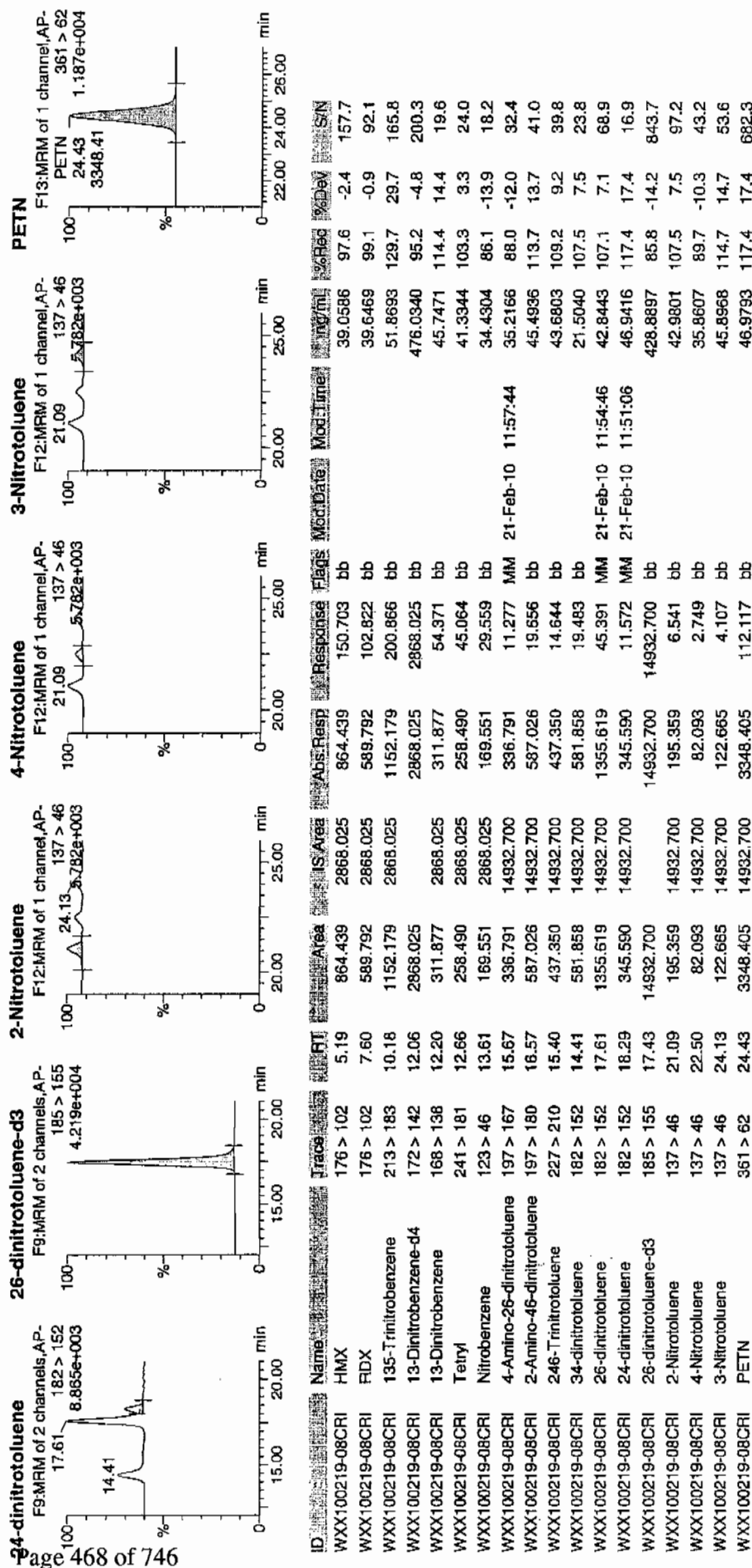
WXX
2/2/10



Printed: Sun Feb 21 12:01:24 2010, Page 26 of 105

Quantify Sample Report GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/20/10
 Time of Injection 1552
 Standard Number WXX100219-08CRI
 Data File EXP0216192a

HMX	97.6
RDX	99.1
135-TNB	129.7
13-DNB	114.4
Tetryl	103.3
Nitrobenzene	86.1
4A-26-DNT	88.0
2A-46-DNT	113.7
246-TNT	109.2
34-DNT(surr)	107.5
26-DNT	107.1
24-DNT	117.4
2-NT	107.5
4-NT	89.7
3-NT	114.7
PETN	117.4

*WAF
2/21/10*

Total 1702.4

Average 106.4

Amn 02/22/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216203a

Analysis Date: 20-FEB-10 21:17

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	611.625	102	
1,3-Dinitrobenzene-d4	500	447.544	90	
2,4,6-Trinitrotoluene	600	766.416	128	*
2,4-Dinitrotoluene	600	682.394	114	
2,6-Dinitrotoluene	600	627.061	105	
2,6-Dinitrotoluene-d3	500	373.694	75	*
2-Amino-4,6-dinitrotoluene	600	678.43	113	
3,4-Dinitrotoluene	300	394.655	132	*
4-Amino-2,6-dinitrotoluene	600	609.287	102	
HMX	600	635.385	106	
Nitrobenzene	600	597.696	100	
PETN	600	708.615	118	
RDX	600	771.67	129	*
Tetryl	600	540.565	90	
m-Dinitrobenzene	600	636.381	106	
m-Nitrotoluene	600	675.517	113	
o-Nitrotoluene	600	691.274	115	
p-Nitrotoluene	600	803.018	134	*

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: Sun Feb 21 12:01:24 2010, Page 47 of 105

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216203a

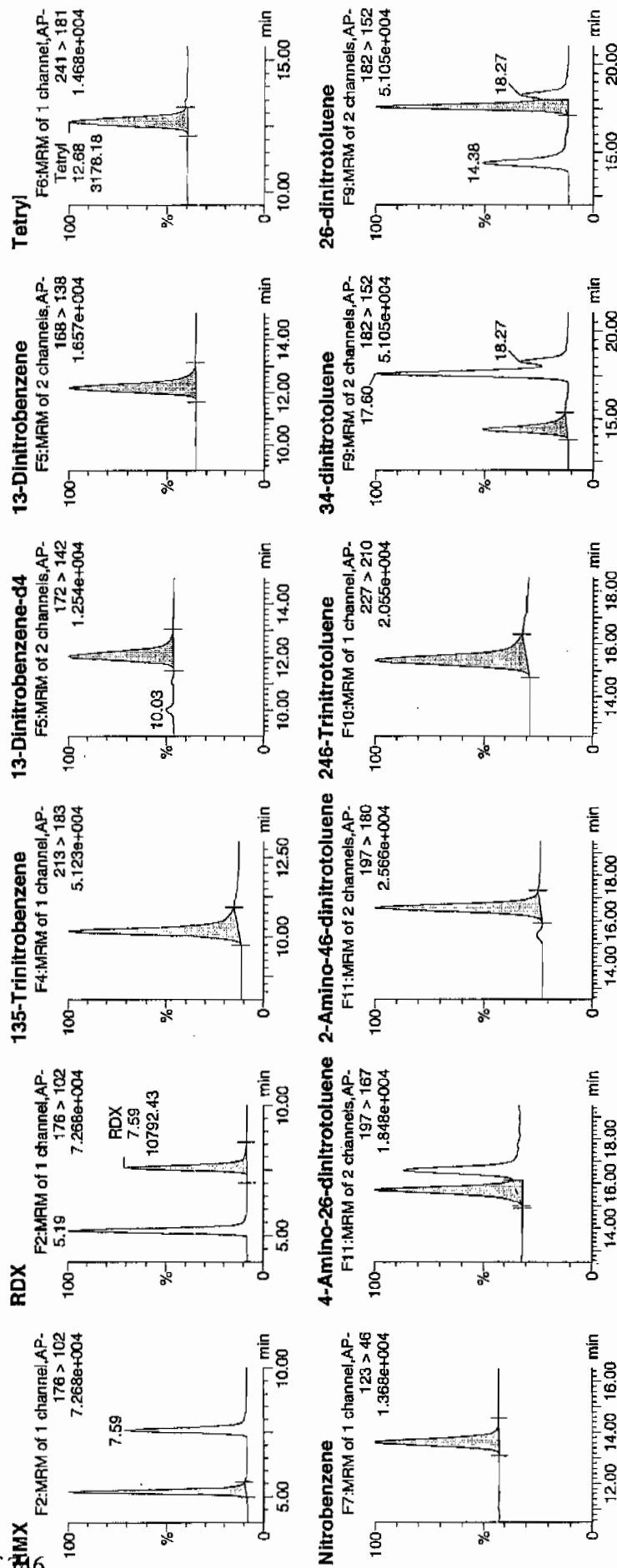
Date: 20-Feb-2010

Time: 21:17:32

ID: WXX100219-07CCV

Vial: 1:1,B

1/21/10

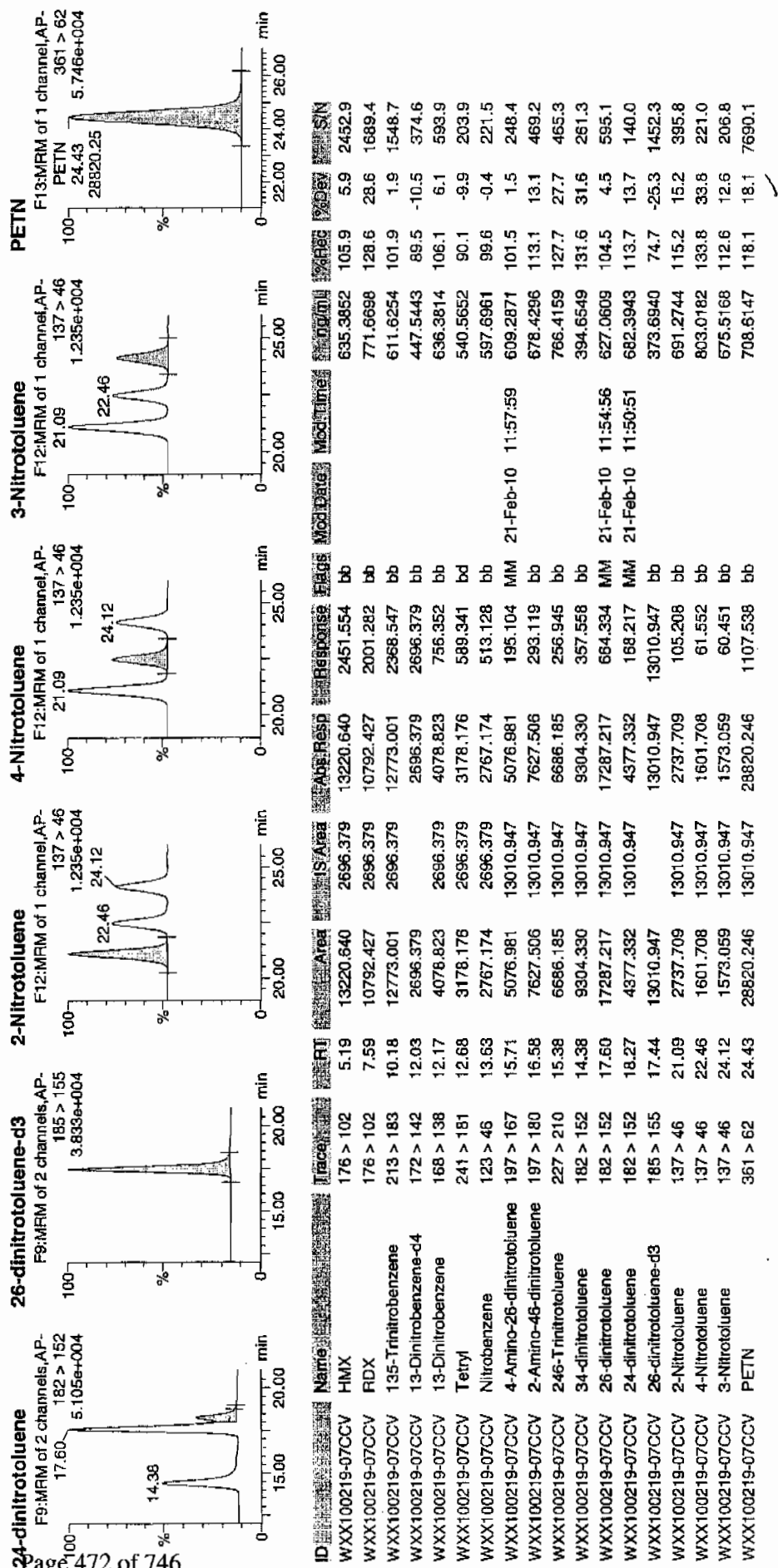


from 0216203a

Printed: Sun Feb 21 12:01:24 2010, Page 48 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/20/10
 Time of Injection: 2117
 Standard Number: WXX100219-07CCV
 Data File: EXP0216203a

HMX	105.9
RDX	128.6
135-TNB	101.9
13-DNB	106.1
Tetryl	90.1
Nitrobenzene	99.6
4A-26-DNT	101.5
2A-46-DNT	113.1
246-TNT	127.7
34-DNT(surr)	131.6
26-DNT	104.5
24-DNT	113.7
2-NT	115.2
4-NT	133.8
3-NT	112.6
PETN	118.1

Handwritten: 4/22/10

Total 1804.0

Average 112.8

Handwritten: Hum 02/22/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216205a

Analysis Date: 20-FEB-10 22:16

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	57.022	143	*
1,3-Dinitrobenzene-d4	500	453.827	91	
2,4,6-Trinitrotoluene	40	38.114	95	
2,4-Dinitrotoluene	40	36.968	92	
2,6-Dinitrotoluene	40	42.44	106	
2,6-Dinitrotoluene-d3	500	462.56	93	
2-Amino-4,6-dinitrotoluene	40	39.865	100	
3,4-Dinitrotoluene	20	21.776	109	
4-Amino-2,6-dinitrotoluene	40	33.428	84	
HMX	40	44.957	112	
Nitrobenzene	40	39.149	98	
PETN	40	42.286	106	
RDX	40	39.549	99	
Tetryl	40	49.5	124	
m-Dinitrobenzene	40	41.382	103	
m-Nitrotoluene	40	37.542	94	
o-Nitrotoluene	40	37.92	95	
p-Nitrotoluene	40	45.462	114	

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:\MASSLYN\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

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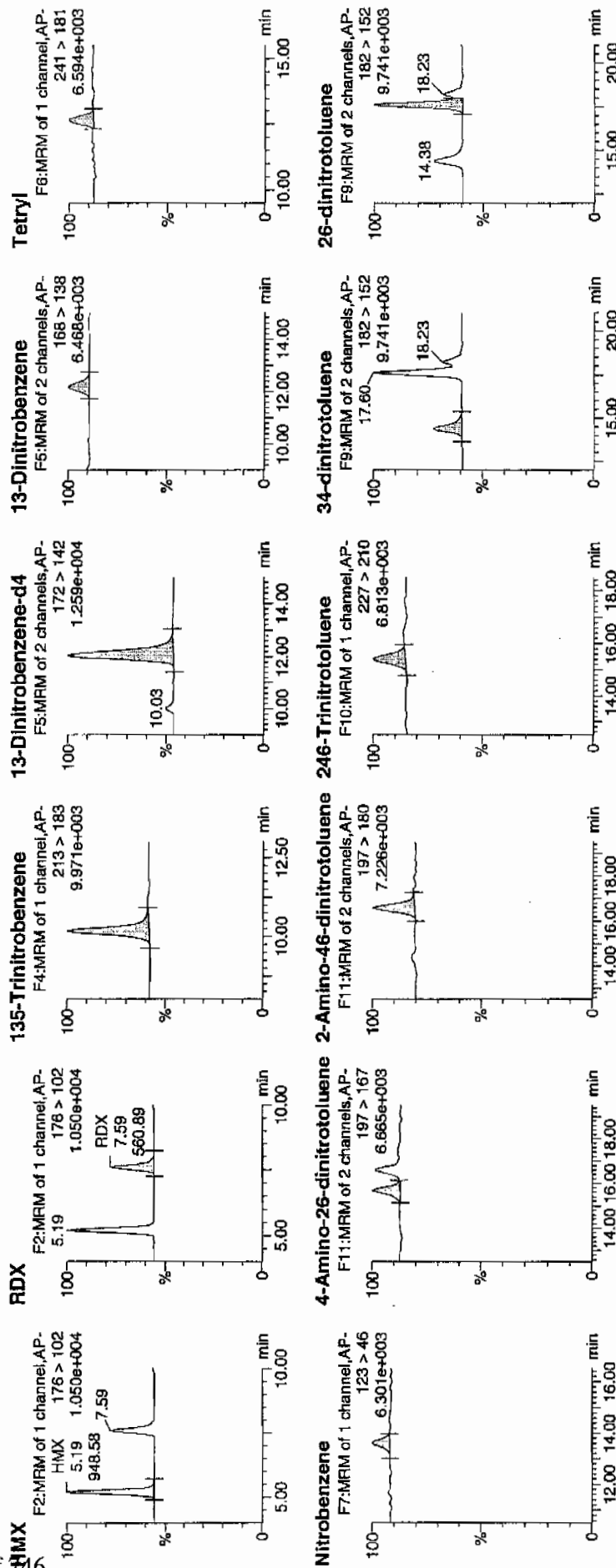
Date: 20-Feb-2010

Time: 22:16:48

AP: WXX100219-08CRI

Vial: 1:1,C

WXX
vial

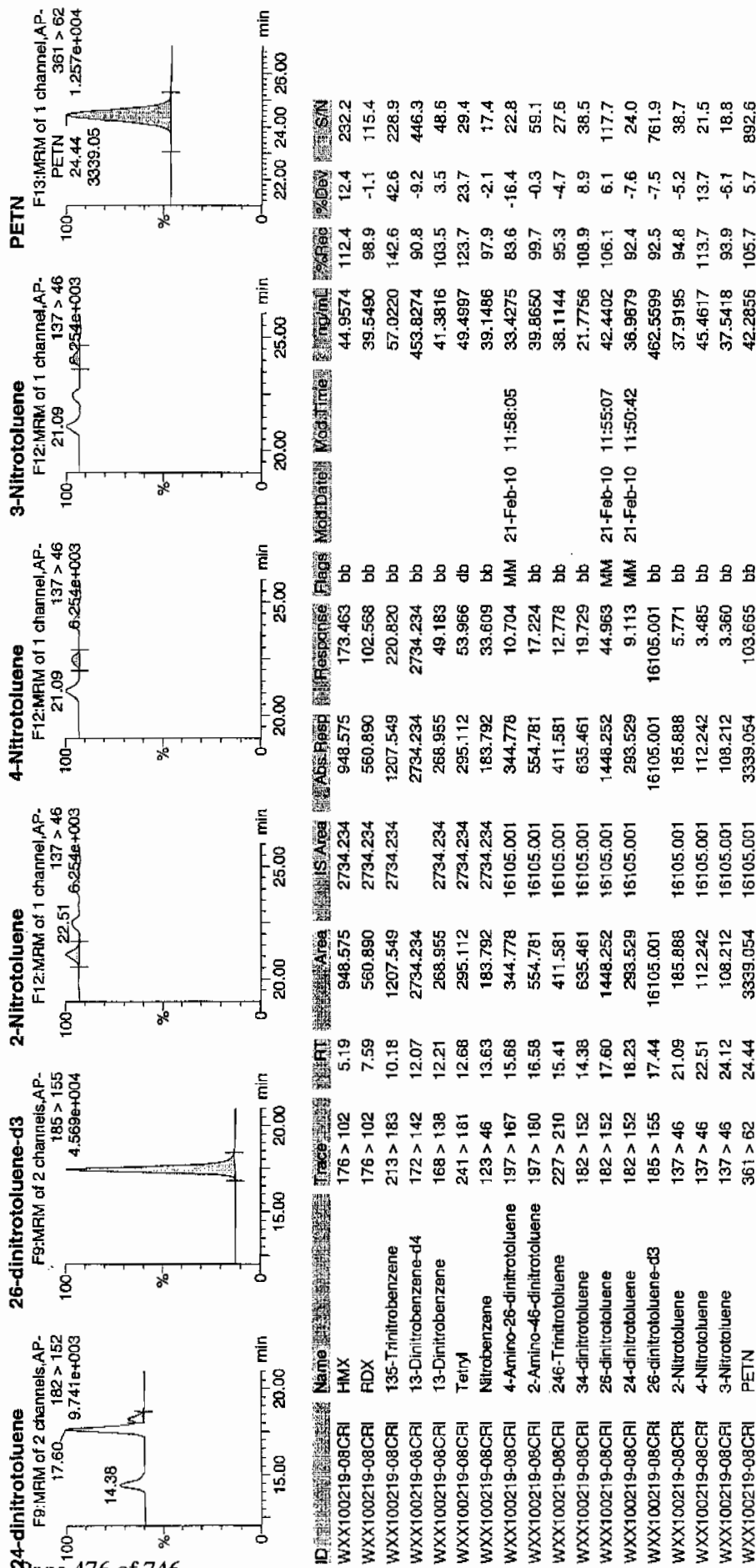


WXX
vial

Printed: Sun Feb 21 12:01:24 2010, Page 52 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/20/10
 Time of Injection 2216
 Standard Number WXX100219-08CRI
 Data File EXP0216205a

HMX	112.4
RDX	98.9
135-TNB	142.6
13-DNB	103.5
Tetryl	123.7
Nitrobenzene	97.9
4A-26-DNT	83.6
2A-46-DNT	99.7
246-TNT	95.3
34-DNT(surr)	108.9
26-DNT	106.1
24-DNT	92.4
2-NT	94.8
4-NT	113.7
3-NT	93.9
PETN	105.7

*MTT
2/21/10*

Total 1673.1

Average 104.6

MTT 02/22/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0216216a

Analysis Date: 21-FEB-10 03:43

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4-Dinitrotoluene	600	642.266	107	
2,6-Dinitrotoluene	600	608.283	101	
2,6-Dinitrotoluene-d3	500	506.816	101	
2-Amino-4,6-dinitrotoluene	600	689.157	115	
3,4-Dinitrotoluene	300	308.236	103	
4-Amino-2,6-dinitrotoluene	600	594.975	99	
HMX	600	710.543	118	
Nitrobenzene	600	540.945	90	
PETN	600	538.301	90	
RDX	600	735.478	123	*
Tetryl	600	581.73	97	
m-Dinitrobenzene	600	668.212	111	
m-Nitrotoluene	600	534.42	89	
o-Nitrotoluene	600	536.288	89	
p-Nitrotoluene	600	557.564	93	
1,3,5-Trinitrobenzene	600	644.022	107	
1,3-Dinitrobenzene-d4	500	490.284	98	
2,4,6-Trinitrotoluene	600	668.921	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 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\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

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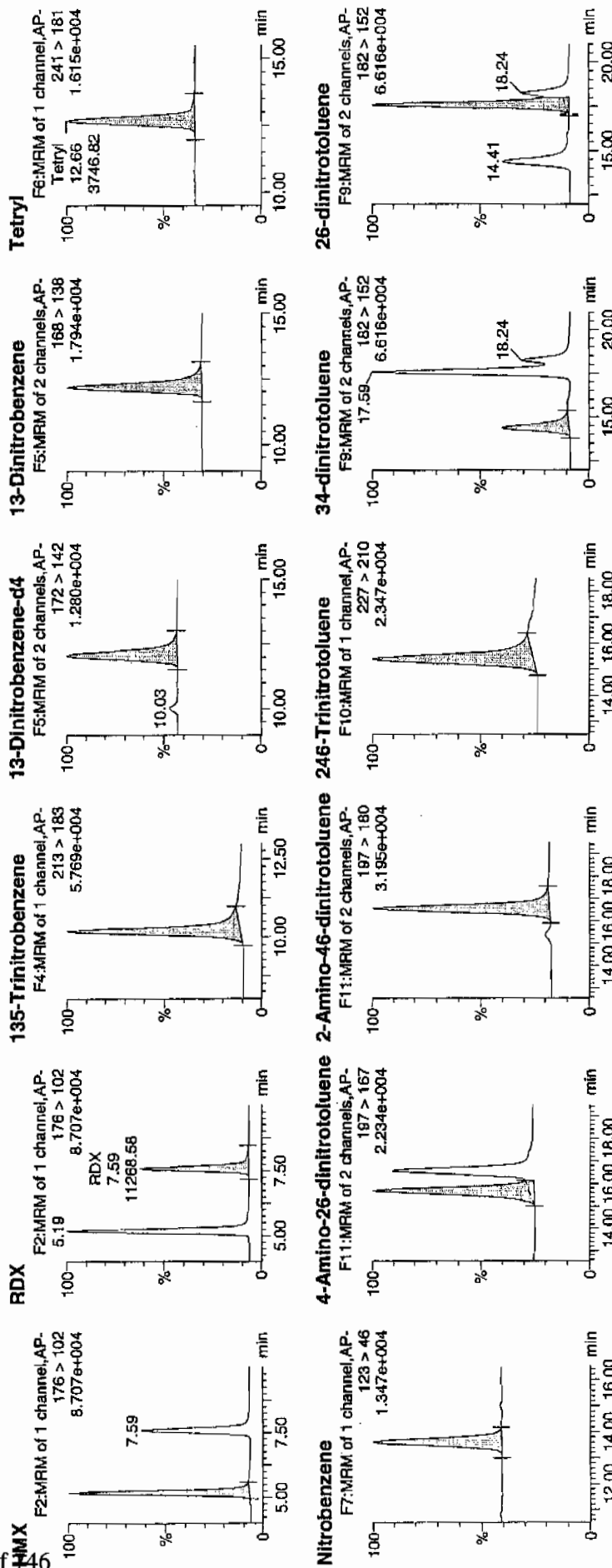
Date: 21-Feb-2010

Time: 03:43:35

File: WXX100219-07CCV

Label: 1:1,B

2/21/10

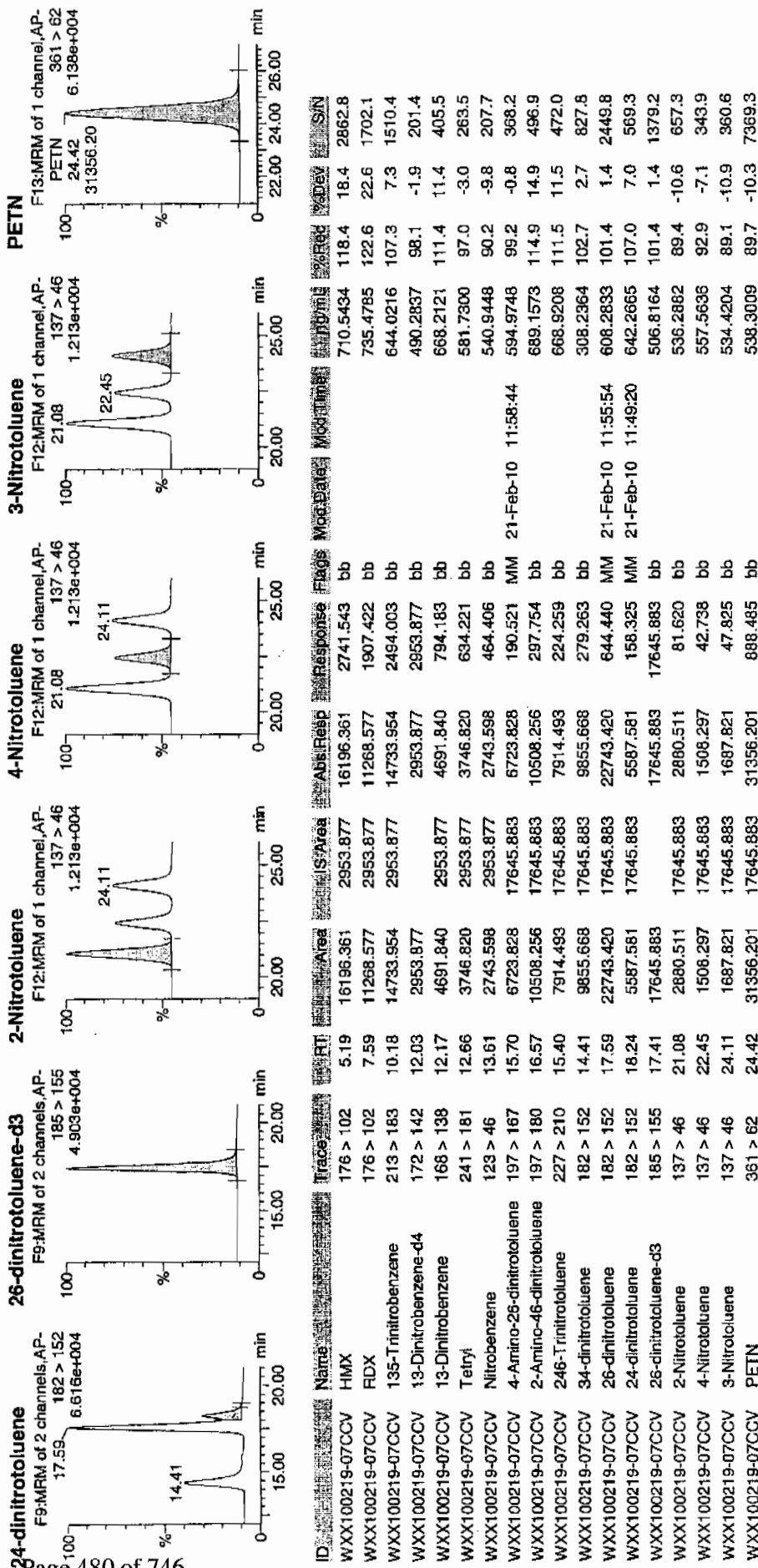


Handwritten signature

Printed: Sun Feb 21 12:01:24 2010, Page 74 of 105

Quantity Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSL\YNN\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 02/21/10
 Time of Injection: 0343
 Standard Number: WXX100219-07CCV
 Data File: EXP0216216a

HMX	118.4
RDX	122.6
135-TNB	107.3
13-DNB	111.4
Tetryl	97.0
Nitrobenzene	90.2
4A-26-DNT	99.2
2A-46-DNT	114.9
246-TNT	111.5
34-DNT(surr)	102.7
26-DNT	101.4
24-DNT	107.0
2-NT	89.4
4-NT	92.9
3-NT	89.1
PETN	89.7

4/2/10

Total 1644.7

Average 102.8

4/2/10

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0216218a

Analysis Date: 21-FEB-10 04:43

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	57.255	143	*
1,3-Dinitrobenzene-d4	500	494.944	99	
2,4,6-Trinitrotoluene	40	39.972	100	
2,4-Dinitrotoluene	40	42.817	107	
2,6-Dinitrotoluene	40	43.432	109	
2,6-Dinitrotoluene-d3	500	452.034	90	
2-Amino-4,6-dinitrotoluene	40	46.553	116	
3,4-Dinitrotoluene	20	23.16	116	
4-Amino-2,6-dinitrotoluene	40	37.763	94	
HMX	40	49.465	124	
Nitrobenzene	40	38.618	97	
PETN	40	48.235	121	
RDX	40	49.497	124	
Tetryl	40	44.521	111	
m-Dinitrobenzene	40	44.674	112	
m-Nitrotoluene	40	35.713	89	
o-Nitrotoluene	40	44.134	110	
p-Nitrotoluene	40	49.34	123	

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\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216218a

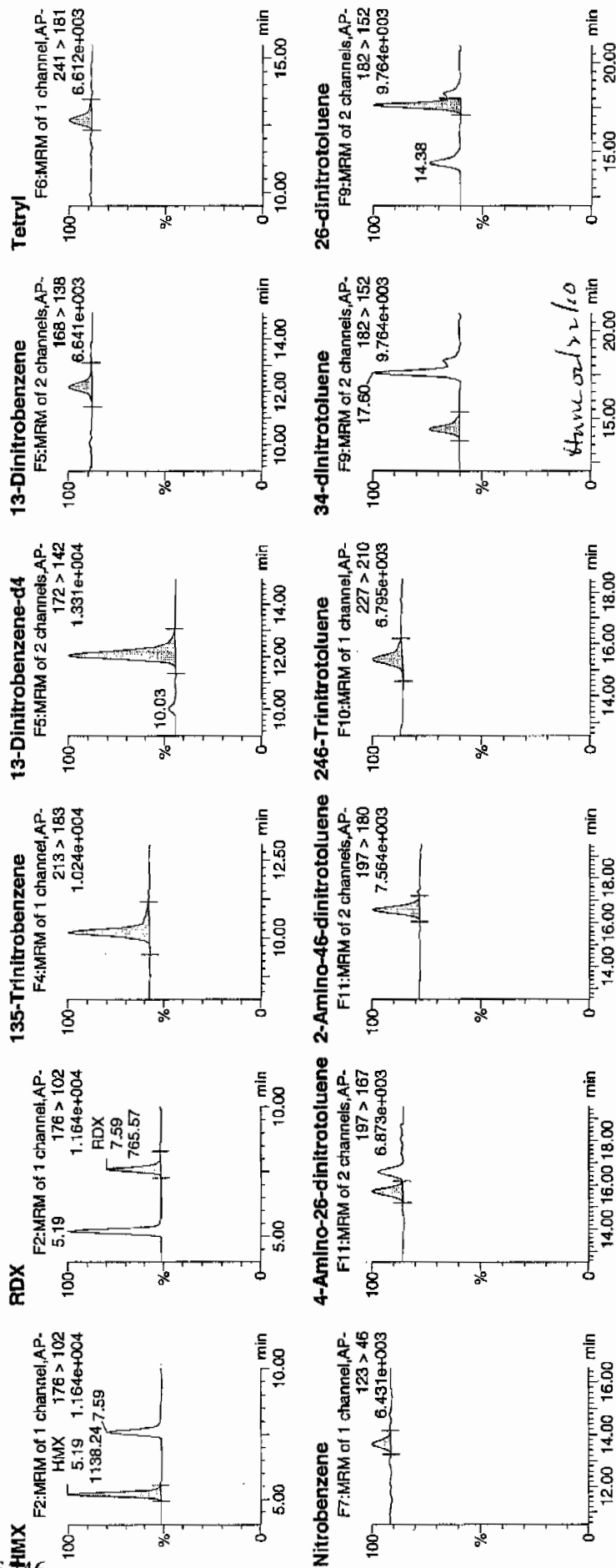
Date: 21-Feb-2010

Time: 04:43:09

ID: WXX100219-08CRI

Vial: 1:1,C

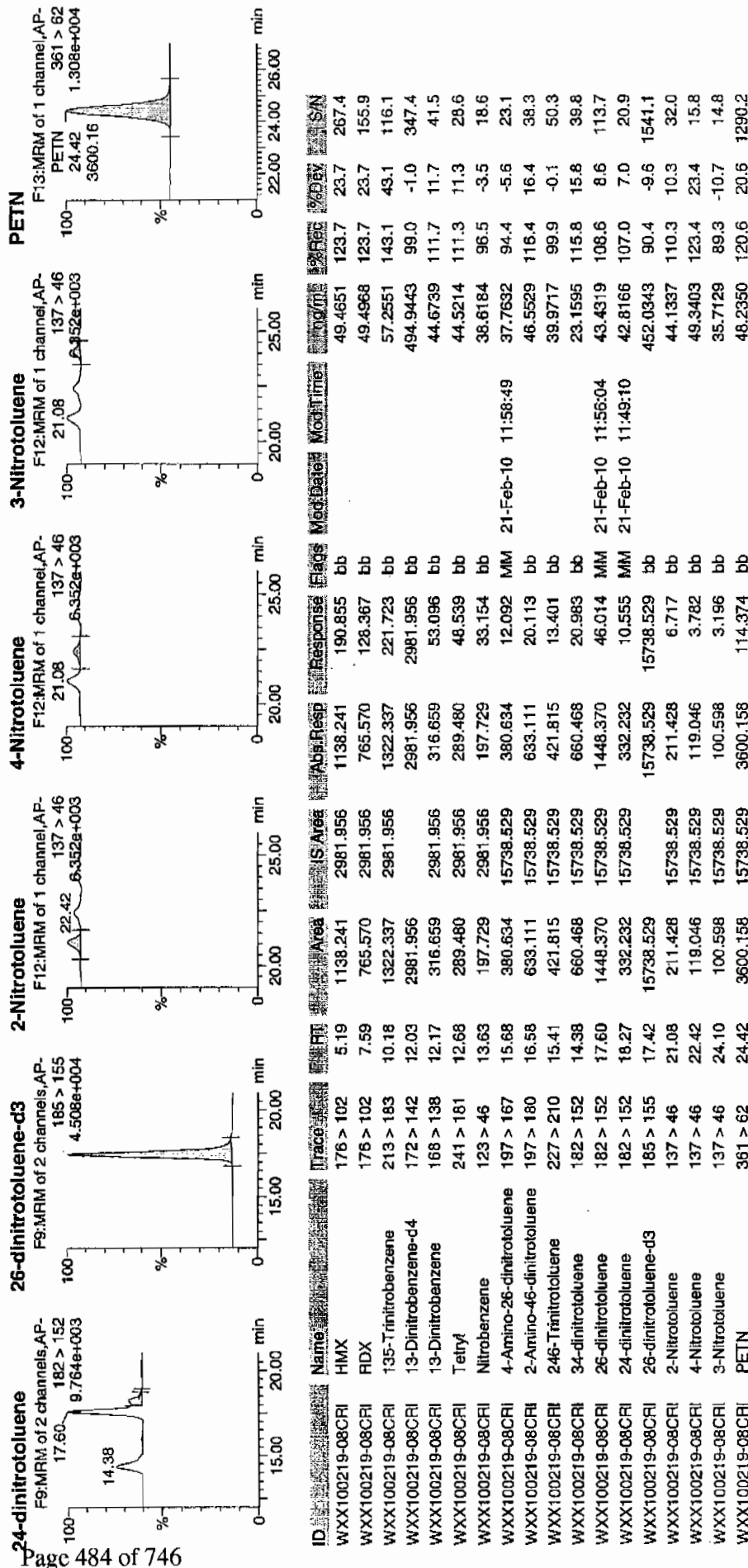
WXX
2/21/10



Printed: Sun Feb 21 12:01:24 2010, Page 78 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 02/21/10
 Time of Injection 0443
 Standard Number WXX100219-08CRI
 Data File EXP0216218a

HMX	123.7
RDX	123.7
135-TNB	143.1
13-DNB	111.7
Tetryl	111.3
Nitrobenzene	96.5
4A-26-DNT	94.4
2A-46-DNT	116.4
246-TNT	99.9
34-DNT(surr)	115.8
26-DNT	108.6
24-DNT	107.0
2-NT	110.3
4-NT	123.4
3-NT	89.3
PETN	120.6

*not
2/21/10*

Total 1795.7

same order as

Average 112.2

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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02170013.wiff

Analysis Date: 17-FEB-10 12:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	49.3	99	
3,5-Dinitroaniline	100	97.1	97	
TATB	100	96.4	96	
tris(o-cresyl) phosphate	100	112	112	
2,4-Diamino-6-nitrotoluene	100	91.2	91	
2,6-Diamino-4-nitrotoluene	100	82.2	82	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

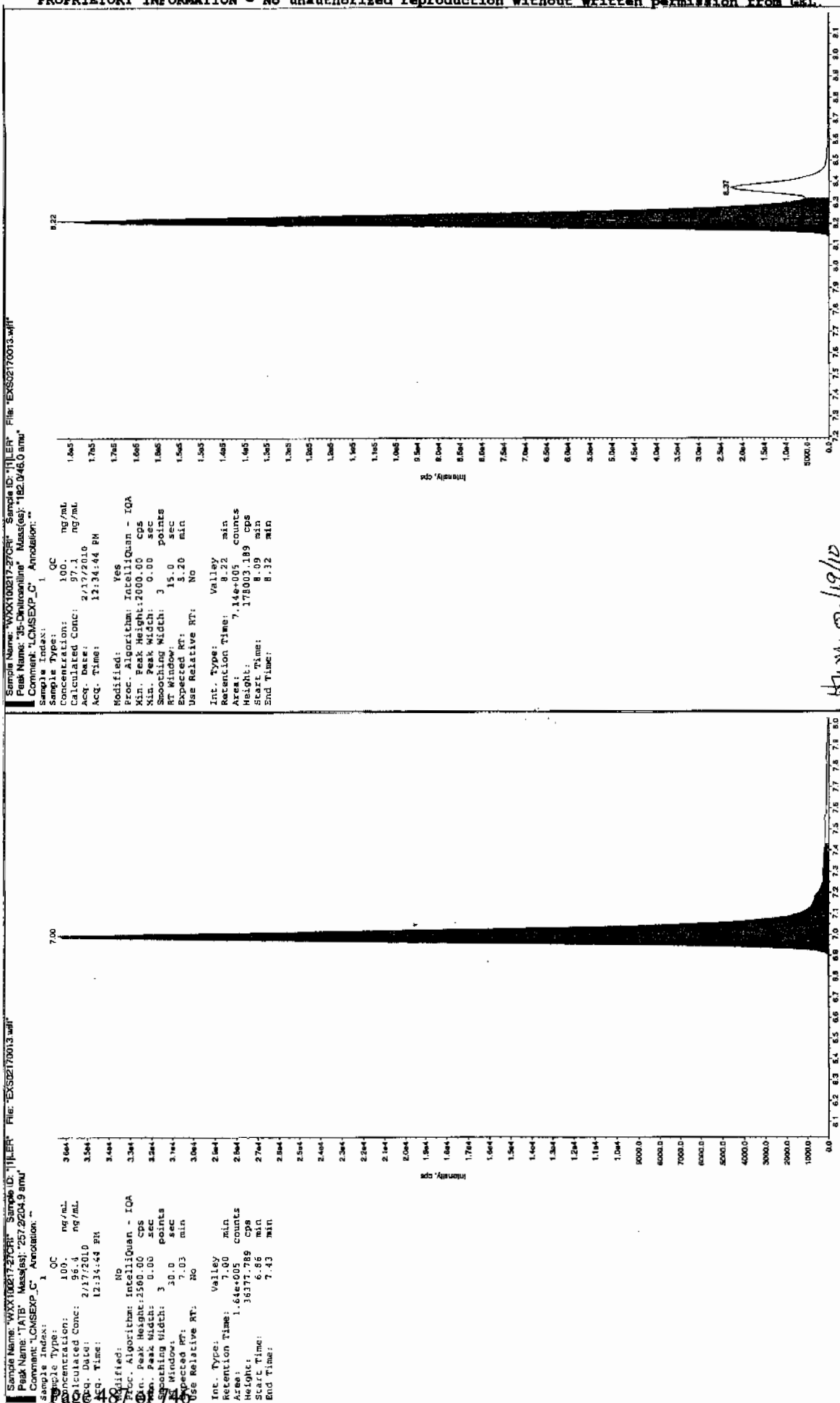
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

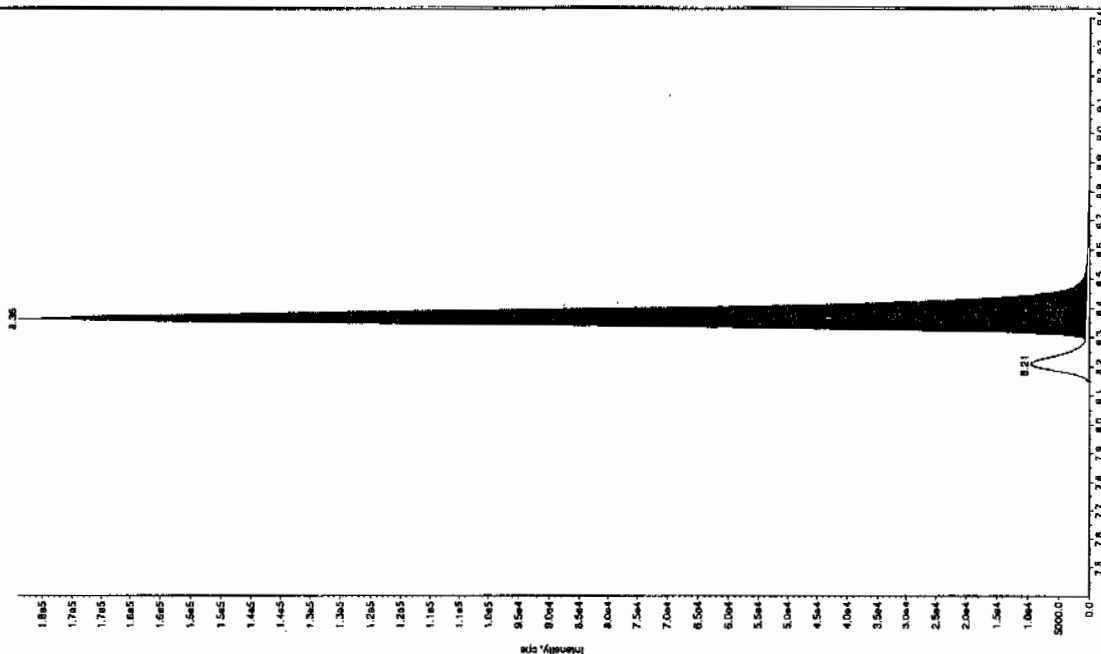
See 2/19/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

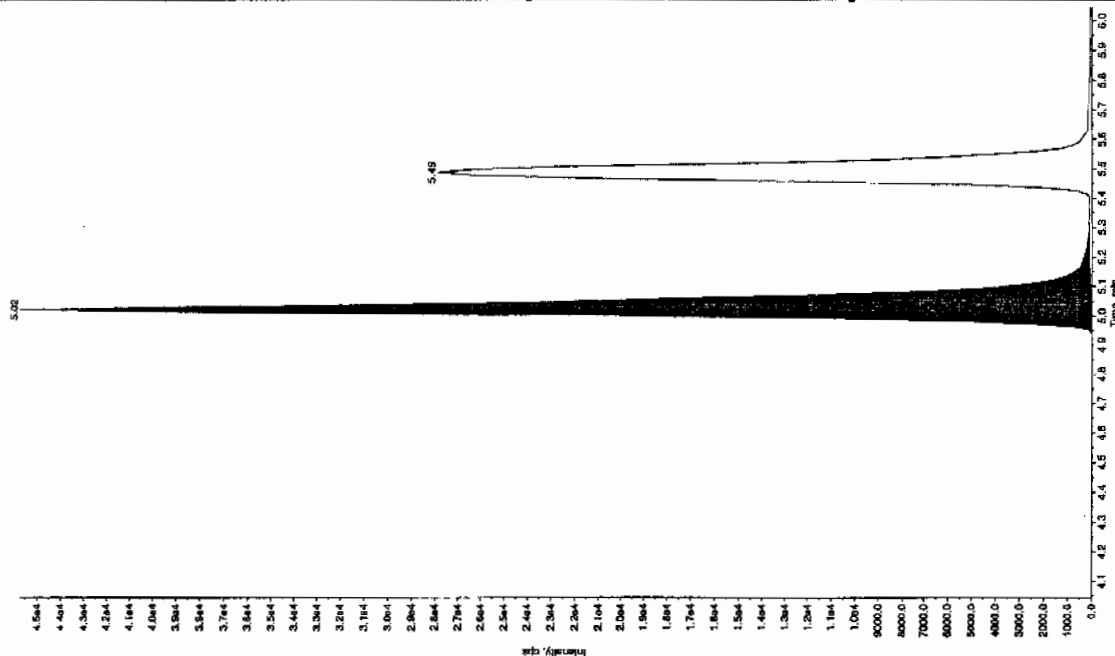
Sample Name: "WXX100217-27CR" Sample ID: "111ER" File: "EX002170013.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 12/31/44 PM
 Acq. Time: 12:34:44 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 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: 8.36 min
 Area: 6.57e+005 counts
 Height: 17835.765 cps
 Start Time: 8.29 min
 End Time: 8.60 min



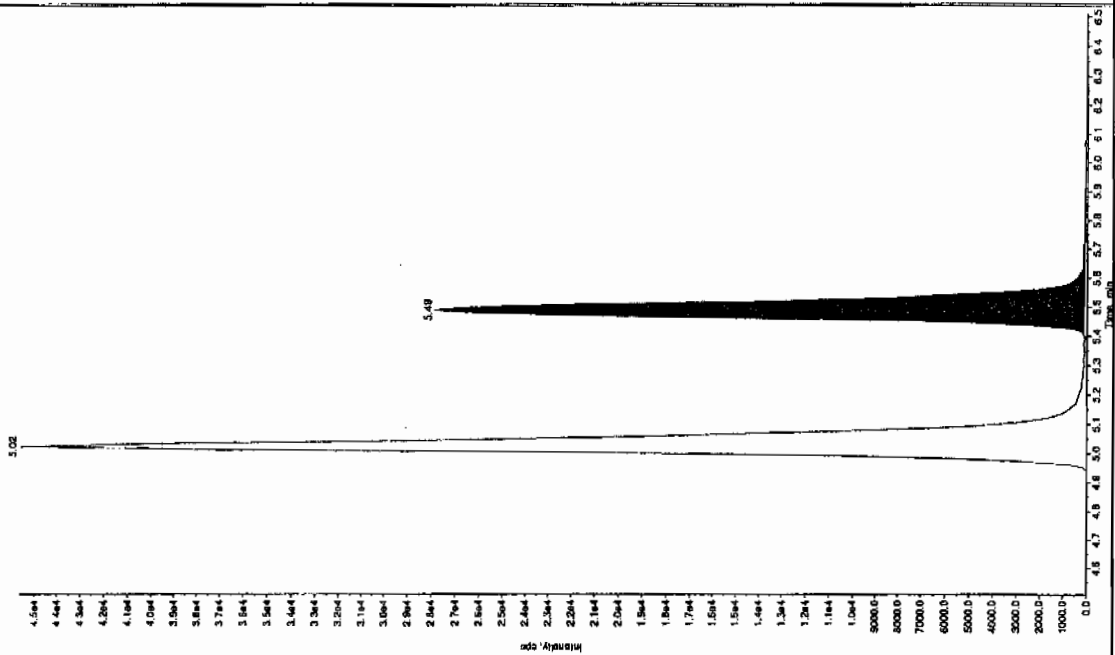
Sample Name: "WXX100217-27CR" Sample ID: "111ER" File: "EX002170013.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0480.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 12/31/44 PM
 Acq. Time: 12:34:44 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: 5.02 min
 Area: 1.62e+005 counts
 Height: 45664.162 cps
 Start Time: 4.93 min
 End Time: 5.30 min



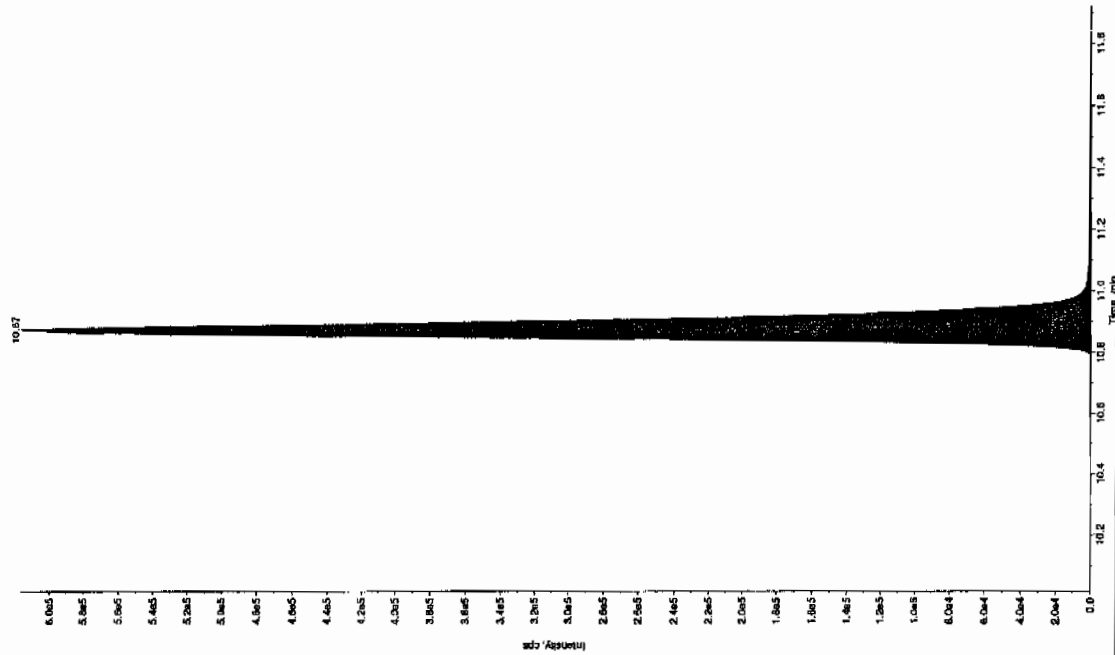
Sample Name: "WXX100217-27CRL" Sample ID: "JLER" File: "EX502170013.wif"
 Peak Name: "24-Diamino-6-nitroindene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Dilution: 1
 Expected Conc: 2/17/2010
 Acq. Date: 12:34:44 PM
 Acq. Time: 4:34
 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: 5.31 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.49 min
 Area: 1.13e+095 counts
 Height: 27769.400 cps
 Start Time: 5.40 min
 End Time: 5.62 min



Sample Name: "WXX100217-27CRL" Sample ID: "JLER" File: "EX502170013.wif"
 Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.161.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 100.0 ng/mL
 Dilution: 1
 Expected Conc: 2/17/2010
 Acq. Date: 12:34:44 PM
 Acq. Time: 4:34
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.8 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 2.43e+006 counts
 Height: 616631.775 cps
 Start Time: 10.8 min
 End Time: 11.2 min



7A

Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02170024.wiff

Analysis Date: 17-FEB-10 15:27

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	250	257	103	
3,5-Dinitroaniline	500	497	100	
TATB	500	470	94	
tris(o-cresyl) phosphate	500	488	98	
2,4-Diamino-6-nitrotoluene	500	456	91	
2,6-Diamino-4-nitrotoluene	500	464	93	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

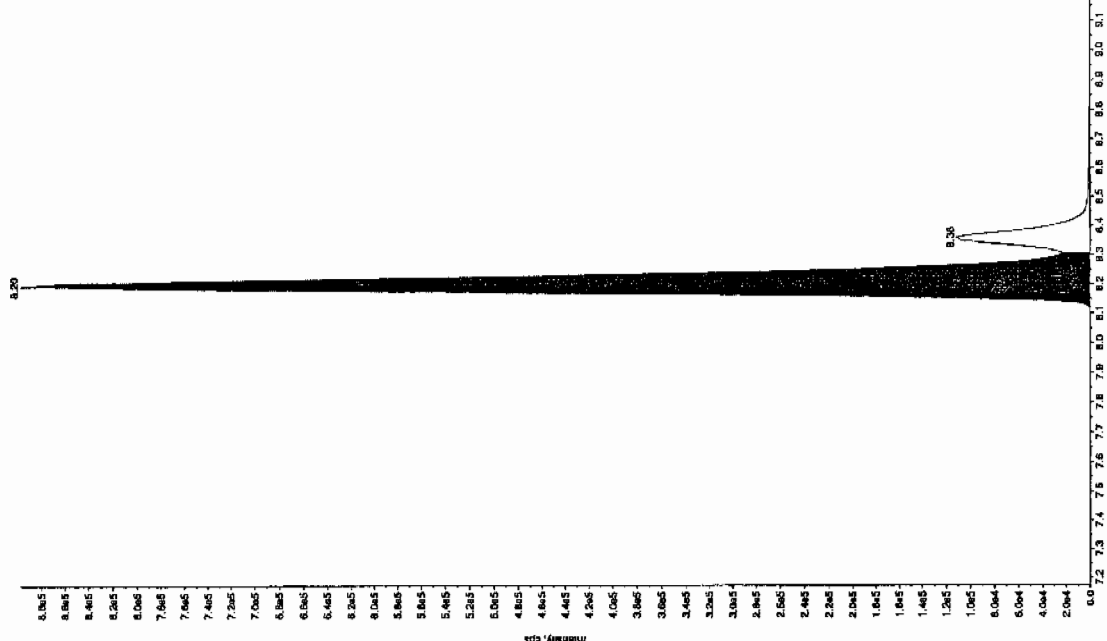
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Ken 2/19/10

Sample Name: WXX(0017)260CV Sample ID: 111ER File: EXS02170024.wml
 Peak Name: 15-Dehydrocorticosterone Mass(es): 182.0460 amu
 Comment: LCMSEXP_C Annotation:

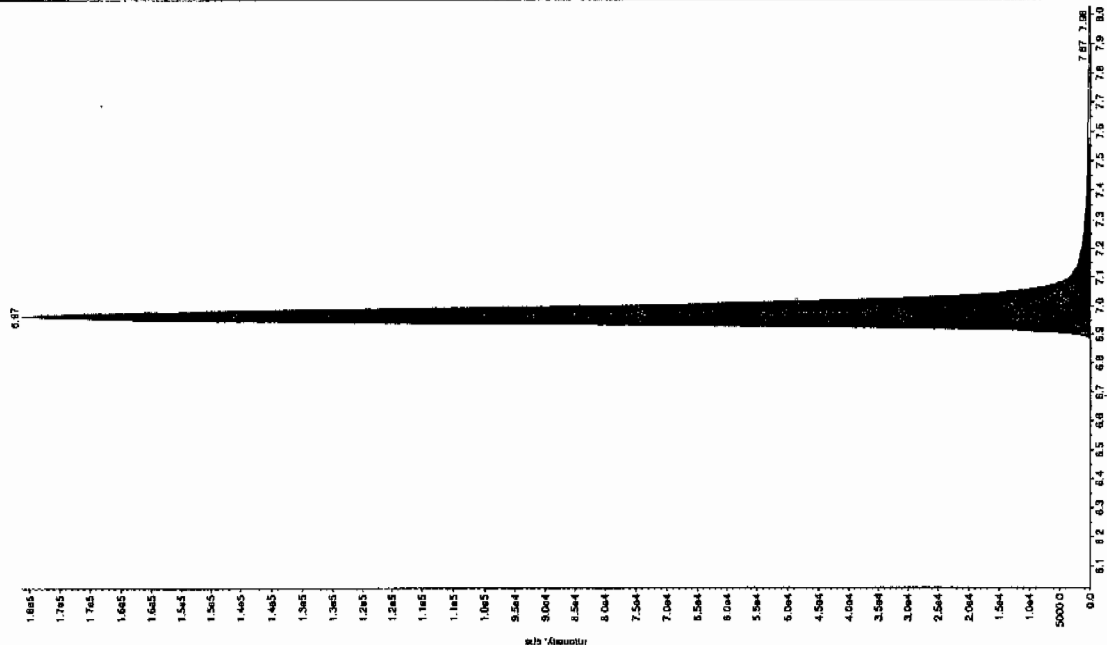
Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 497 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 3:27:27 PM
 Acq. Time: 3:27:27 PM
 Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 15.0 points
 RT Window: 8.17 min
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.20 min
 Area: 3.66e+006 counts
 Height: 89810.413 cps
 Start Time: 8.10 min
 End Time: 8.31 min



Ann 02/19/10

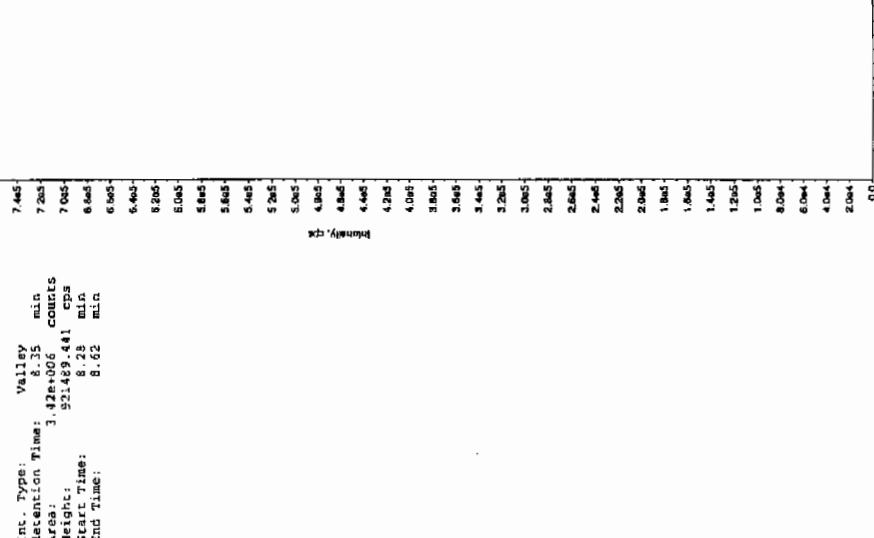
Sample Name: WXX(0017)260CV Sample ID: 111ER File: EXS02170024.wml
 Peak Name: 15-Dehydrocorticosterone Mass(es): 237.20043 amu
 Comment: LCMSEXP_C Annotation:

Sample Index: 1 QC
 Sample Type: 500 ng/mL
 Concentration: 470 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 3:27:27 PM
 Acq. Time: 3:27:27 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 15.0 points
 RT Window: 7.03 min
 Expected RT: 7.03 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.97 min
 Area: 7.99e+005 counts
 Height: 176526.779 cps
 Start Time: 6.85 min
 End Time: 7.15 min



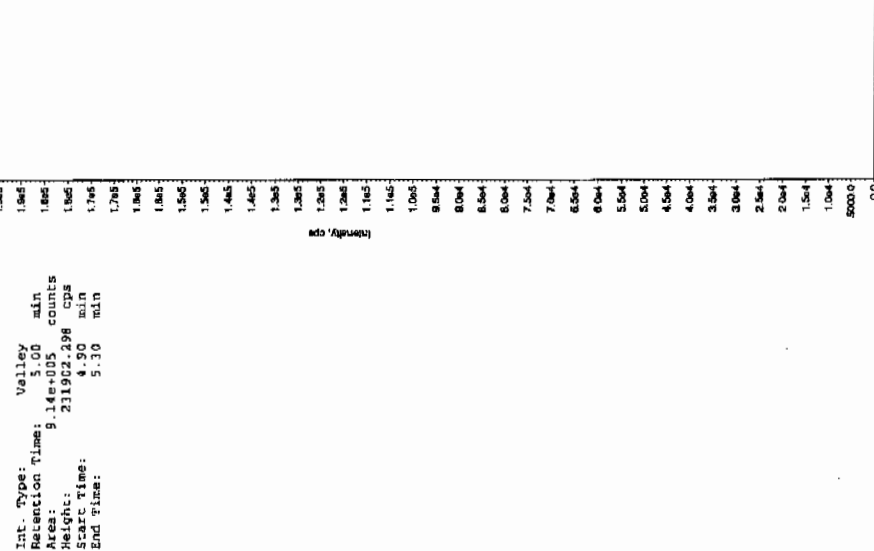
Sample Name: "WXX100217-250CV" Sample ID: "J1LER" File: "EXS02170024.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: GC
 Concentration: 250.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Time: 3:27:27 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.35 min
 Area: 3.42e+006 counts
 Height: 521489.441 cps
 Start Time: 8.25 min
 End Time: 8.42 min



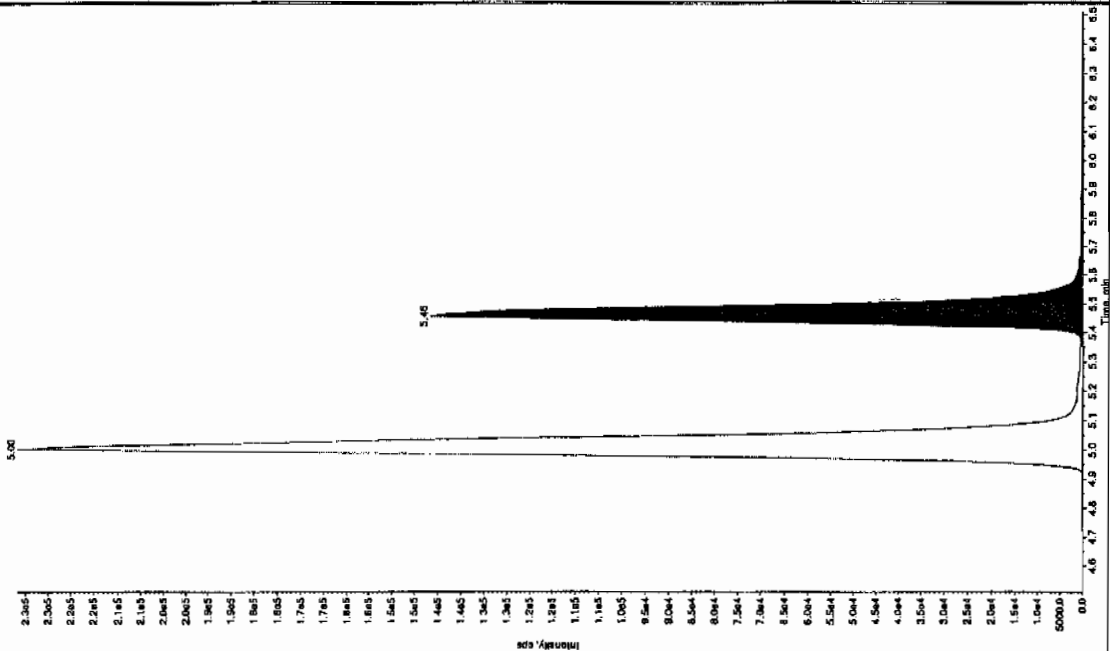
Sample Name: "WXX100217-250CV" Sample ID: "J1LER" File: "EXS02170024.wif"
 Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: GC
 Concentration: 500.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Time: 3:27:27 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: 5.00 min
 Area: 9.14e+005 counts
 Height: 211922.498 cps
 Start Time: 4.90 min
 End Time: 5.10 min



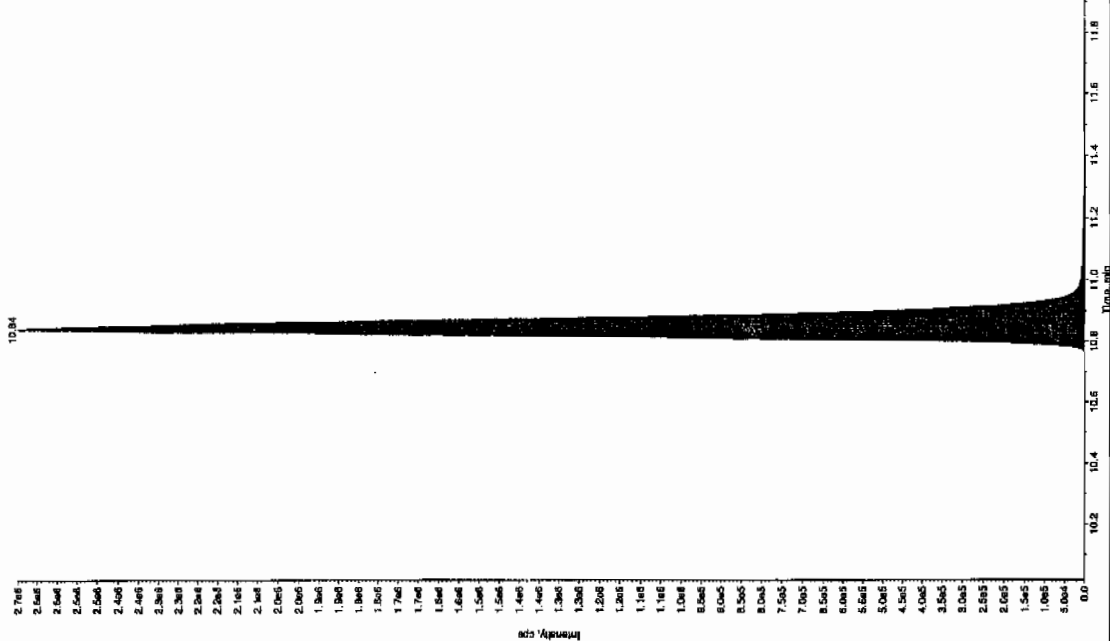
Sample Name: "WXX10217-2600V" Sample ID: "11111" File: "EXS0217024.wif"
 Peak Name: "74-Diamino-6-phenylene" Mass(es): "166.046.0 amu"
 Comment: "LC/MS/MS - C" Acquisition: "Arndt/10/10"

Sample Type: 1 OC
 Concentration: 500. ng/mL
 Calculated Conc: 456. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:27:27 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 3.00 points
 Smoothing Width: 3.00 points
 Retention RT: 5.51 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.46 min
 Area: 5.63e+005 counts
 Height: 41389.374 cps
 Start Time: 5.35 min
 End Time: 5.53 min



Sample Name: "WXX10217-2600V" Sample ID: "11111" File: "EXS0217024.wif"
 Peak Name: "74-Diamino-6-phenylene" Mass(es): "355.191.0 amu"
 Comment: "LC/MS/MS - C" Acquisition: "Arndt/10/10"

Sample Type: 1 OC
 Concentration: 500. ng/mL
 Calculated Conc: 459. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:27:27 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.00 points
 Retention RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.5 min
 Area: 1.05e+007 counts
 Height: 2651478.027 cps
 Start Time: 10.7 min
 End Time: 11.2 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02170026.wiff

Analysis Date: 17-FEB-10 15:58

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	79.7	80	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	51	102	
3,5-Dinitroaniline	100	114	114	
TATB	100	97.5	98	
tris(o-cresyl) phosphate	100	111	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

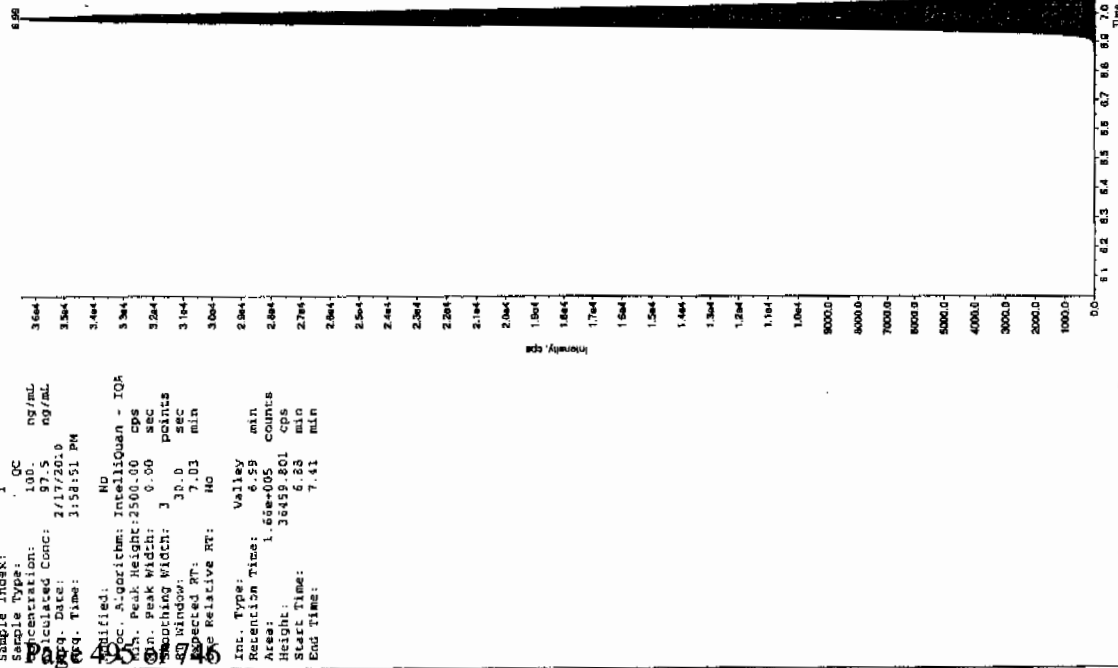
Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 2/19/10

Sample Name: "WXX100217-27028" Sample ID: "ILLER" File: "EXS02170028.wif"
 Peak Name: "TATB" Mass(es): 257.2004.9 and
 Comment: "LCMSDEP_C" Annotat: "

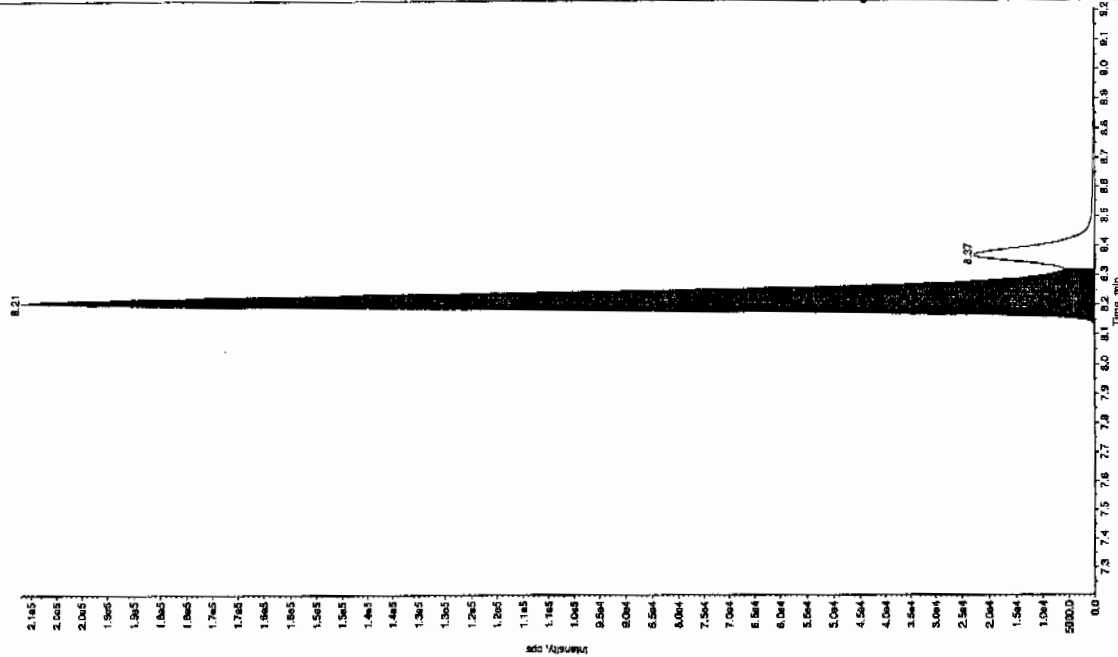


Sample Name: "WXX100217-27028" Sample ID: "ILLER" File: "EXS02170028.wif"
 Peak Name: "TATB" Mass(es): 257.2004.9 and
 Comment: "LCMSDEP_C" Annotat: "

Sample Index: 1 QC
 Sample Type: 100. ng/mL
 Concentration: 114. ng/mL
 Calculated Conc: 114. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:58:51 PM

Modified: Yes
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3.15 points
 Retention RT: 8.21 min
 Expected RT: 8.21 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 8.21 min
 Area: 8.40e+005 counts
 Height: 26571.222 cps
 Start Time: 8.07 min
 End Time: 8.32 min

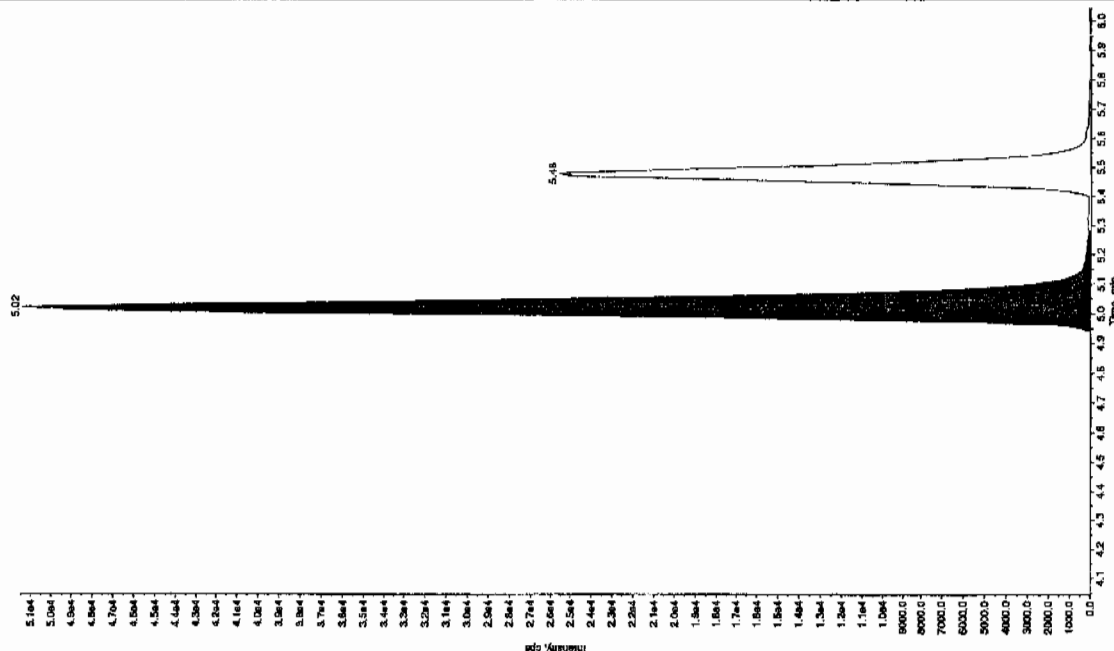


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Hyw 02/19/10

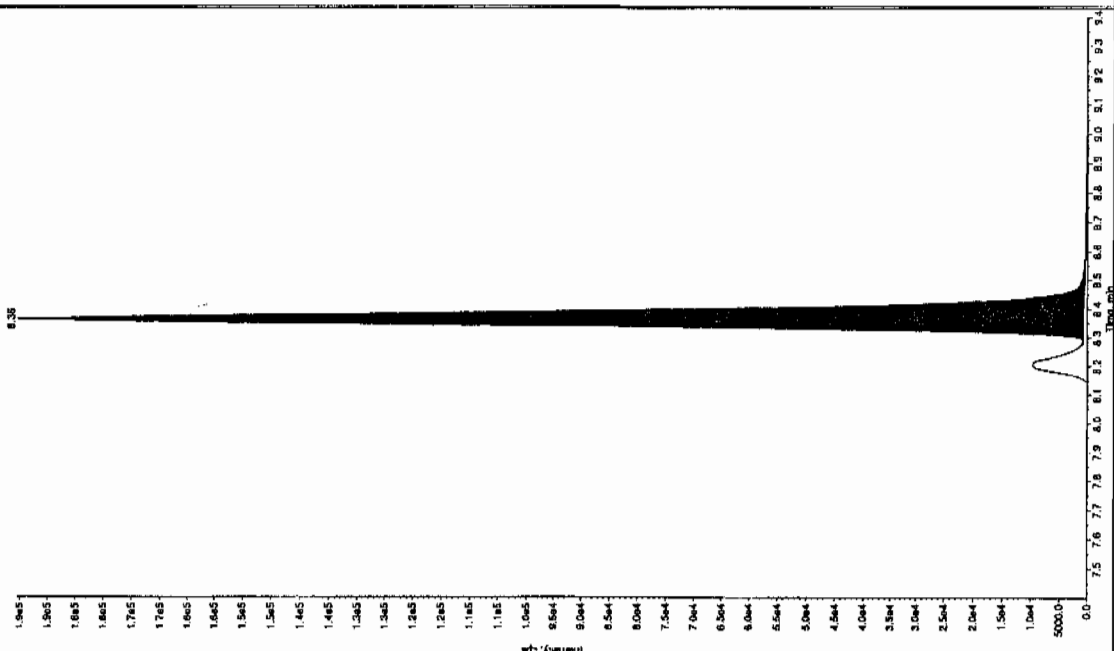
Sample Name: "WXX100217-270R" Sample ID: "11ER" File: "EXS02170025.wif"
 Peak Name: "25-Diaminotetrahydro-1,4-benzodioxine" Mass(es): "186.0480 amu"
 Comment: "LCMS/EXP_C" Annotation: "1"

Sample Index: 1
 Sample Type: QC
 Concentration: 100 ng/mL
 Calculated Conc: 100 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:58:51 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 ST Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.02 min
 Area: 2.04e+005 counts
 Height: 51492.031 cps
 Start Time: 4.86 min
 End Time: 5.28 min

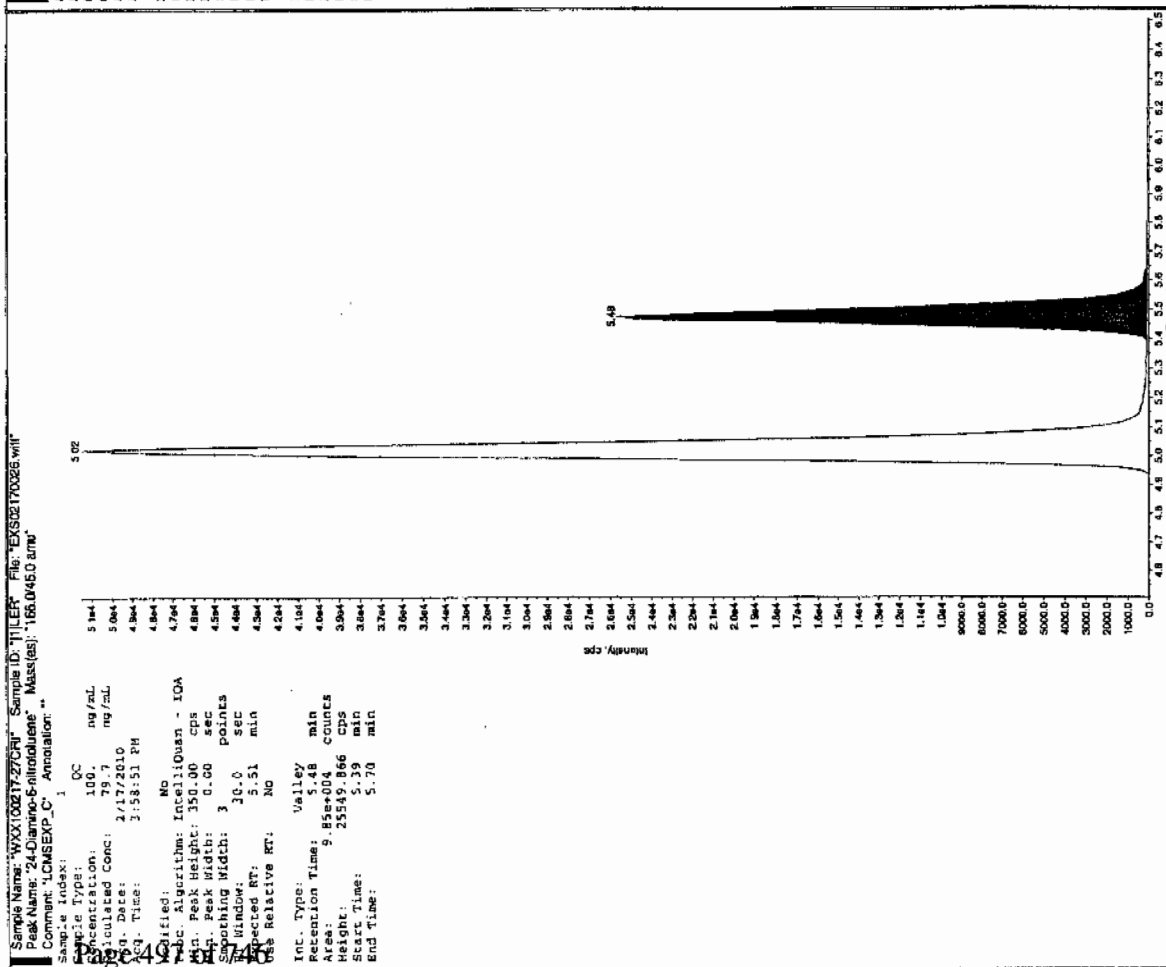
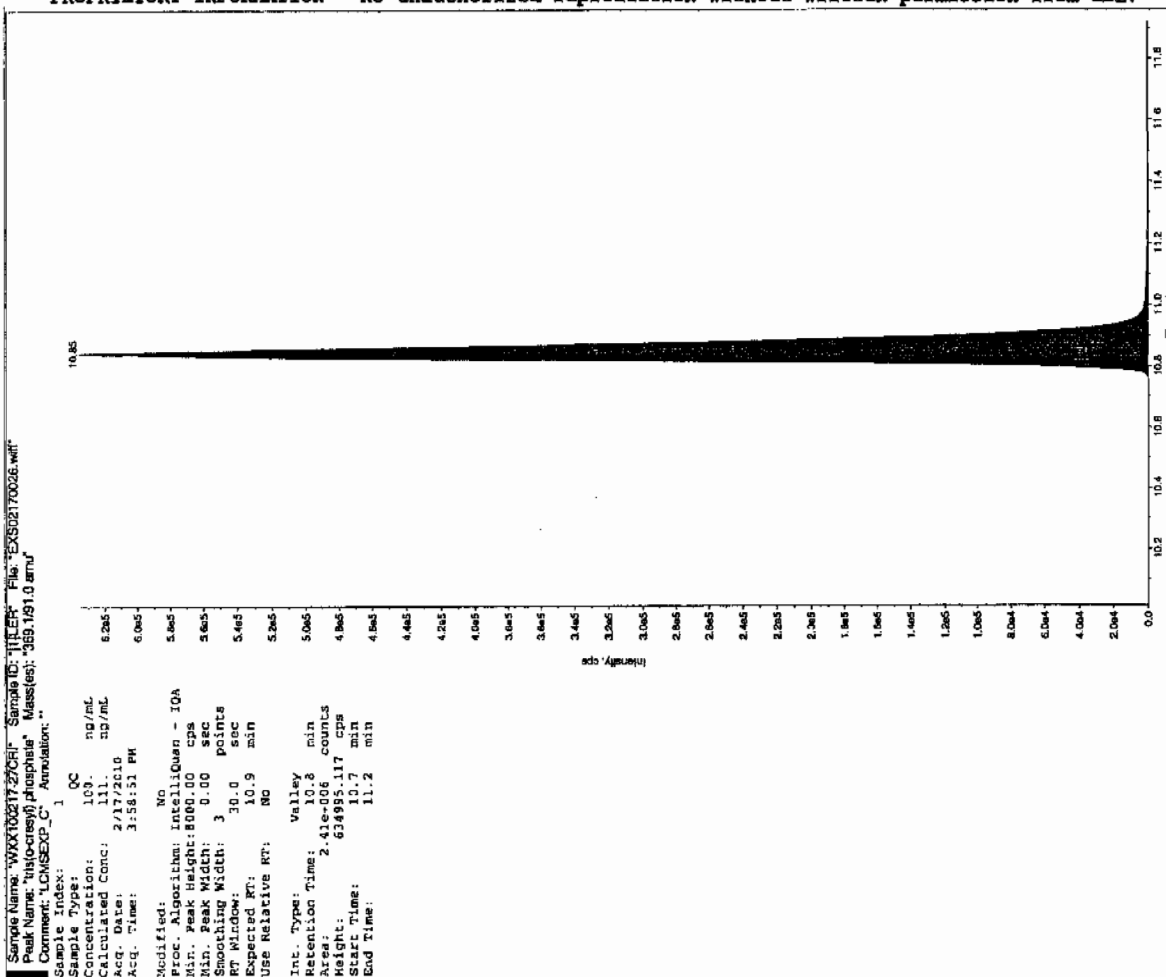


Sample Name: "WXX100217-270R" Sample ID: "11ER" File: "EXS02170025.wif"
 Peak Name: "25-Diaminotetrahydro-1,4-benzodioxine" Mass(es): "182.1519 amu"
 Comment: "LCMS/EXP_C" Annotation: "1"

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 51.0 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 3:58:51 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 ST Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 6.79e+005 counts
 Height: 189974.213 cps
 Start Time: 8.29 min
 End Time: 8.61 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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02170037.wiff

Analysis Date: 17-FEB-10 18:51

LCMSMS ID: 1358

Column ID: Sphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	351	70	
2,6-Diamino-4-nitrotoluene	500	477	95	
3,4-Dinitrotoluene	250	253	101	
3,5-Dinitroaniline	500	506	101	
TATB	500	509	102	
tris(o-cresyl) phosphate	500	502	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

See 2/19/10

Sample Name: "WXX102172600V" Sample ID: "111ER" File: "EXS217037.wit"

Peak Name: "TATE" Mass(es): "257.2204.9 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 509. ng/mL

Acq. Date: 2/17/2010

Acq. Time: 6:31:36 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

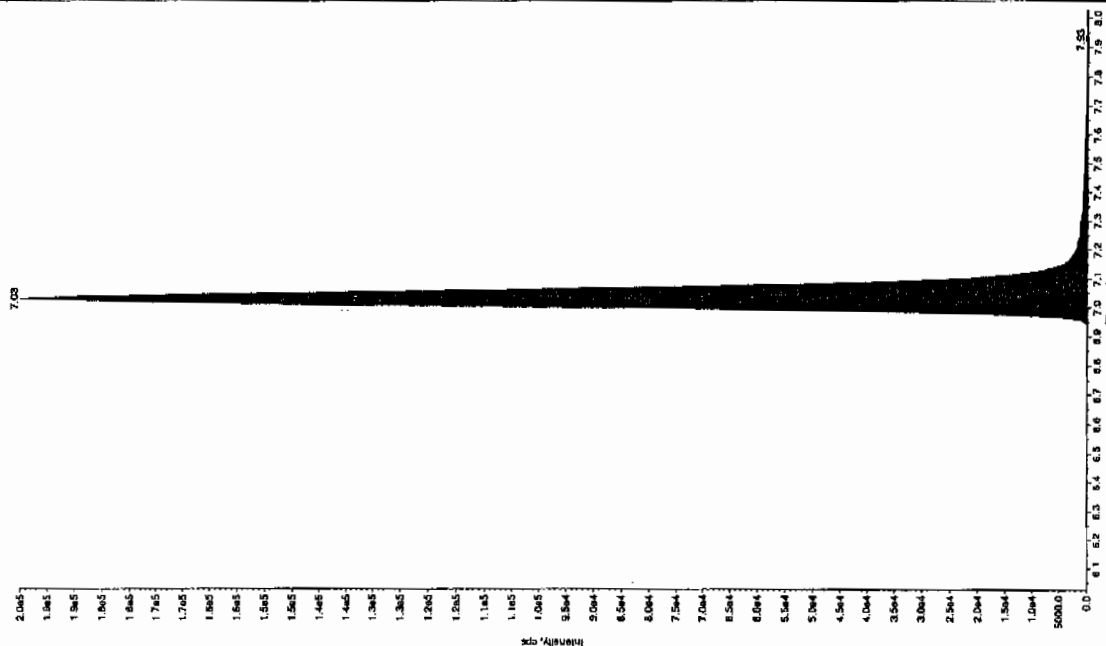
Retention Time: 7.03 min

Area: 8.64x10⁶ counts

Height: 19517.095 cps

Start Time: 5.92 min

End Time: 7.85 min



Sample Name: "WXX102172600V" Sample ID: "111ER" File: "EXS217037.wit"

Peak Name: "35-Diolroline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 506. ng/mL

Acq. Date: 2/17/2010

Acq. Time: 6:51:36 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: 8.26 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 8.27 min

Area: 3.72x10⁶ counts

Height: 977684.117 cps

Start Time: 8.17 min

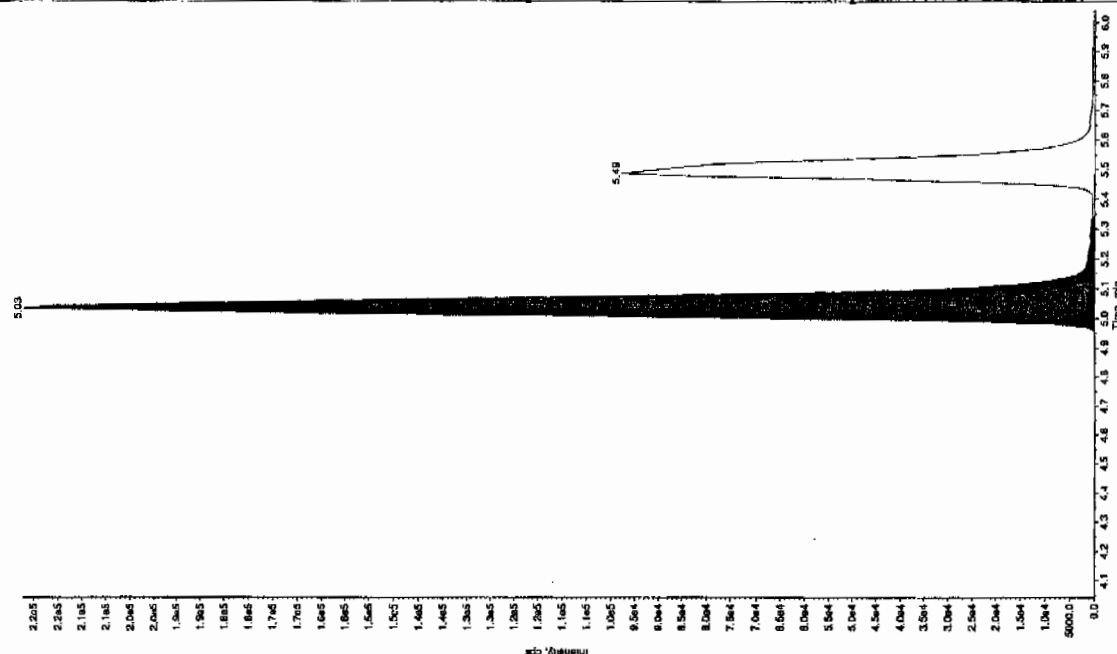
End Time: 8.37 min



hmm 2/19/10

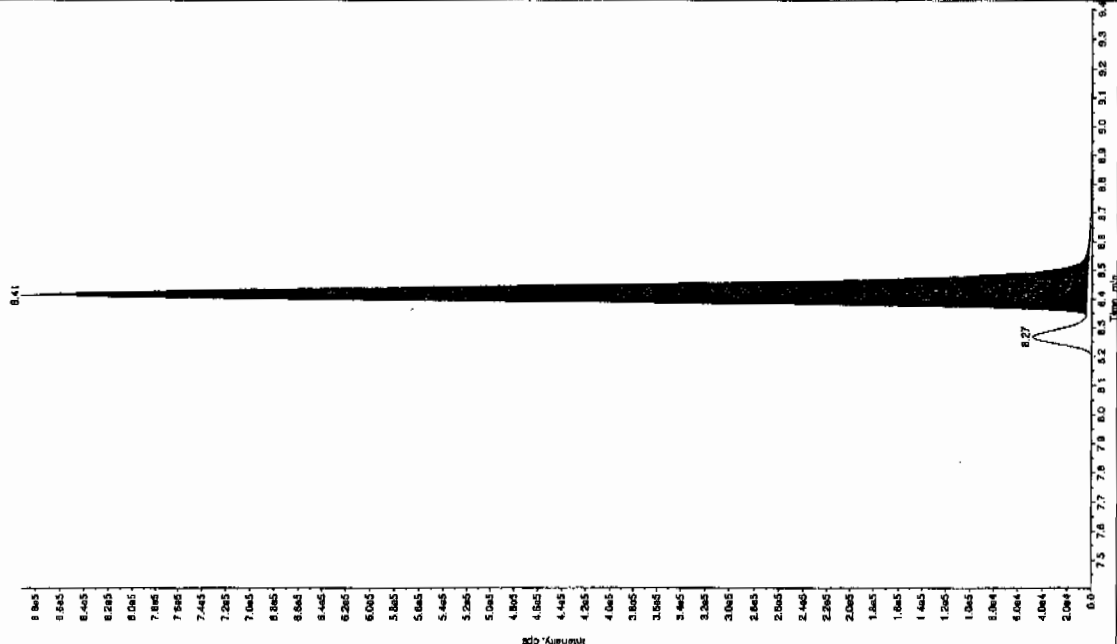
Sample Name: "WXX100217-280CV" Sample ID: "11LBR" File: "EXS02170037.wif"
 Peak Name: "28-Dimino-4-nitroclous" Mass(es): "185.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 500 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:51:36 PM
 Acq. Time: 2:05
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Rf Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.03 min
 Area: 9.39e+005 counts
 Height: 222264.755 cps
 Start Time: 4.92 min
 End Time: 5.14 min



Sample Name: "WXX100217-280CV" Sample ID: "11LBR" File: "EXS02170037.wif"
 Peak Name: "34-Dinitroclous" Mass(es): "182.1519 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 250 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Date: 6:51:36 PM
 Acq. Time: 8:45
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Rf Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.41 min
 Area: 1.37e+005 counts
 Height: 88978.943 cps
 Start Time: 8.34 min
 End Time: 8.56 min



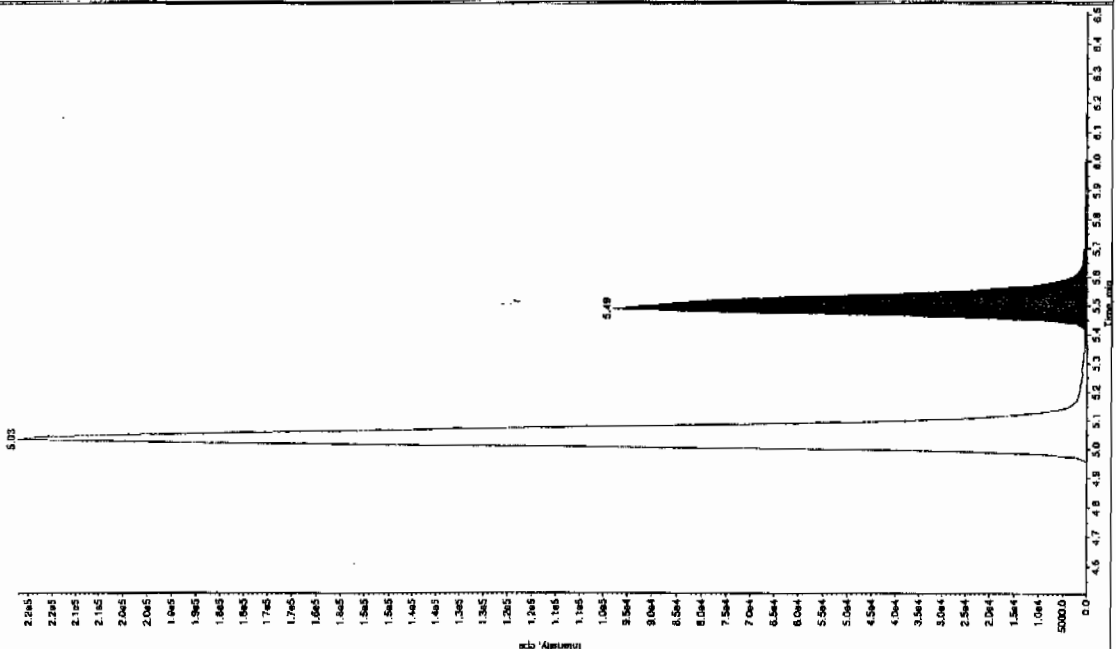
Sample Name: "WXX100217-262CV" Sample ID: "JLER" File: "EXS02170037.wif"
 Peak Name: "In(c-cresyl) phosphate" Mass(es): "189.181.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 2.171010
 Acq. Time: 6:51:16 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Height: 2590401.855 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100217-262CV" Sample ID: "JLER" File: "EXS02170037.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 500. ng/mL
 Calculated Conc: 2.171010
 Acq. Time: 6:51:16 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: 5.51 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.49 min
 Height: 4344099 counts
 Start Time: 5.36 min
 End Time: 5.80 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02170039.wiff

Analysis Date: 17-FEB-10 19:23

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	87.9	88	
2,6-Diamino-4-nitrotoluene	100	98.8	99	
3,4-Dinitrotoluene	50	53.1	106	
3,5-Dinitroaniline	100	104	104	
TATB	100	97.2	97	
tris(o-cresyl) phosphate	100	111	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

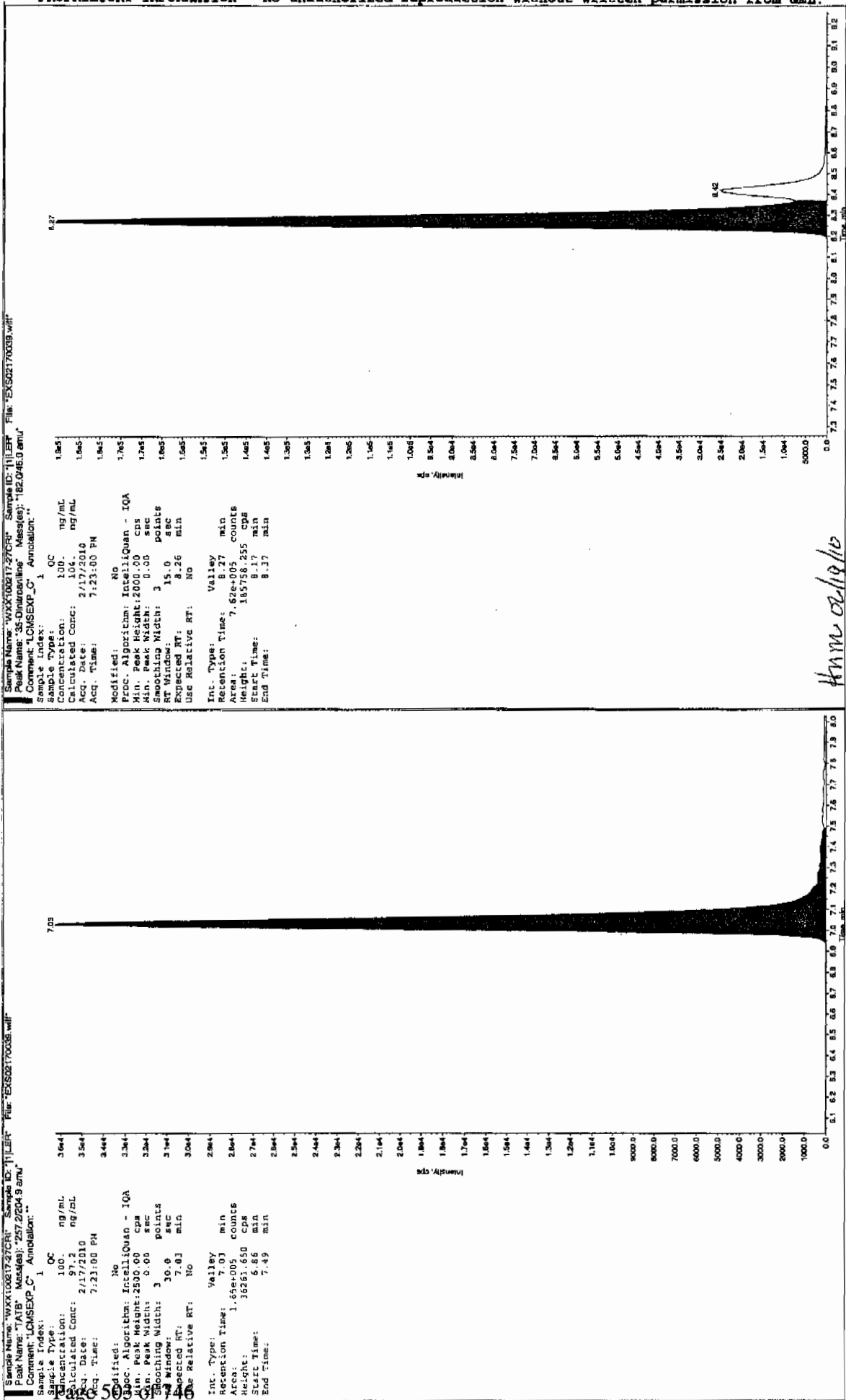
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

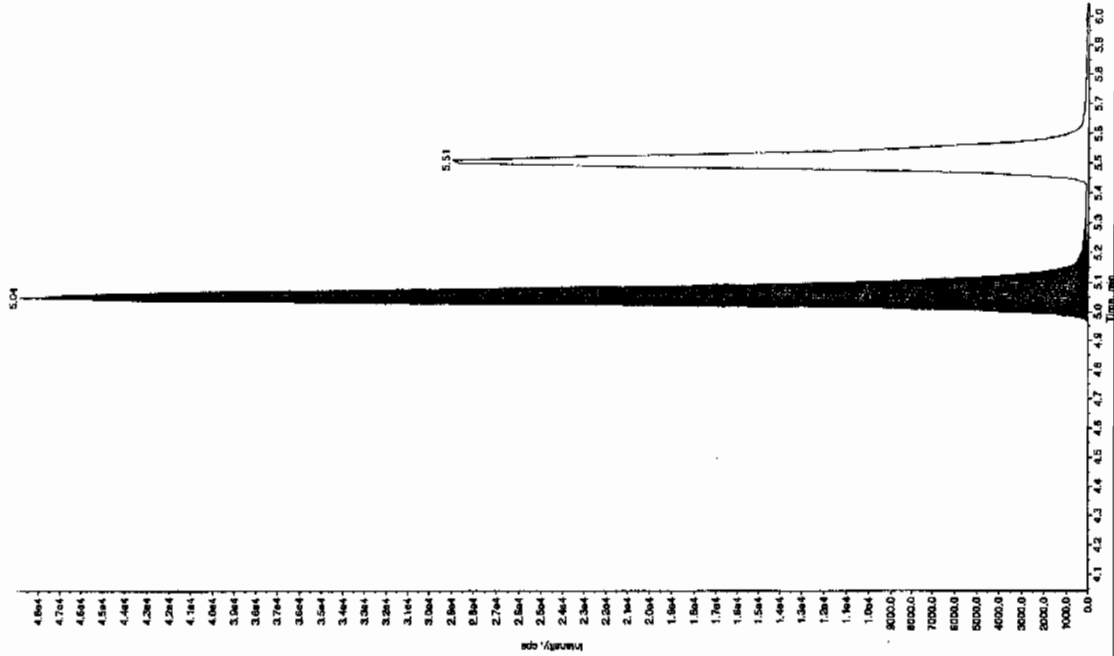
Jan 21/10/10



Jan 21/10/10

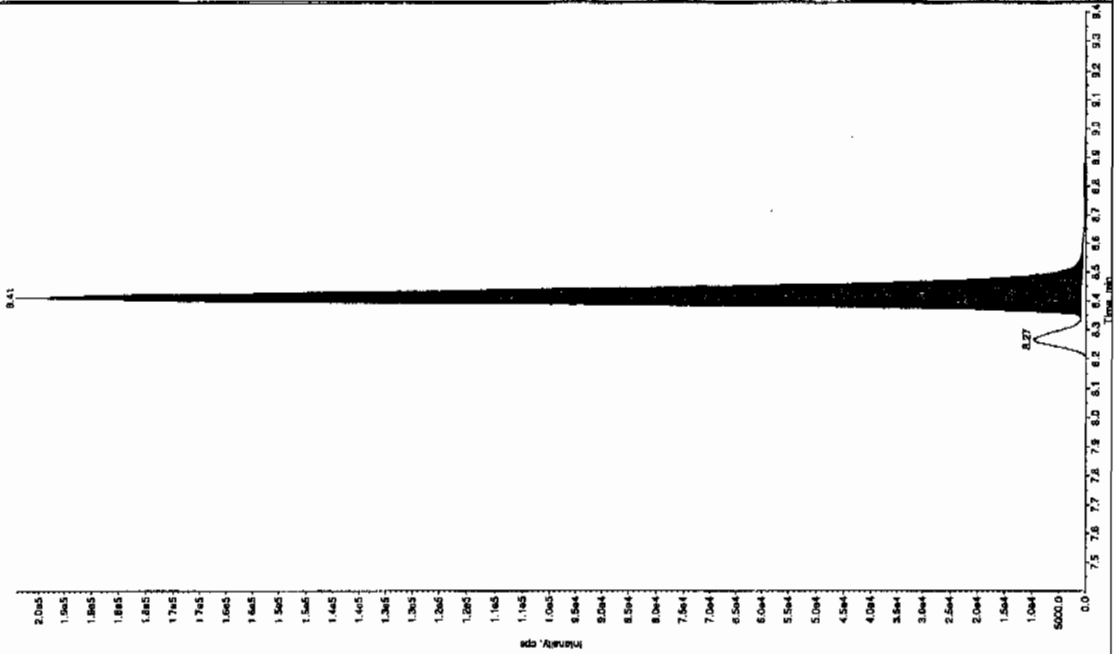
Sample Name: "WXX100217-27CR" Sample ID: "HLEP" File: "EXS2170039.mht"
 Peak Name: "26-Diamino-4-nitrophenol" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

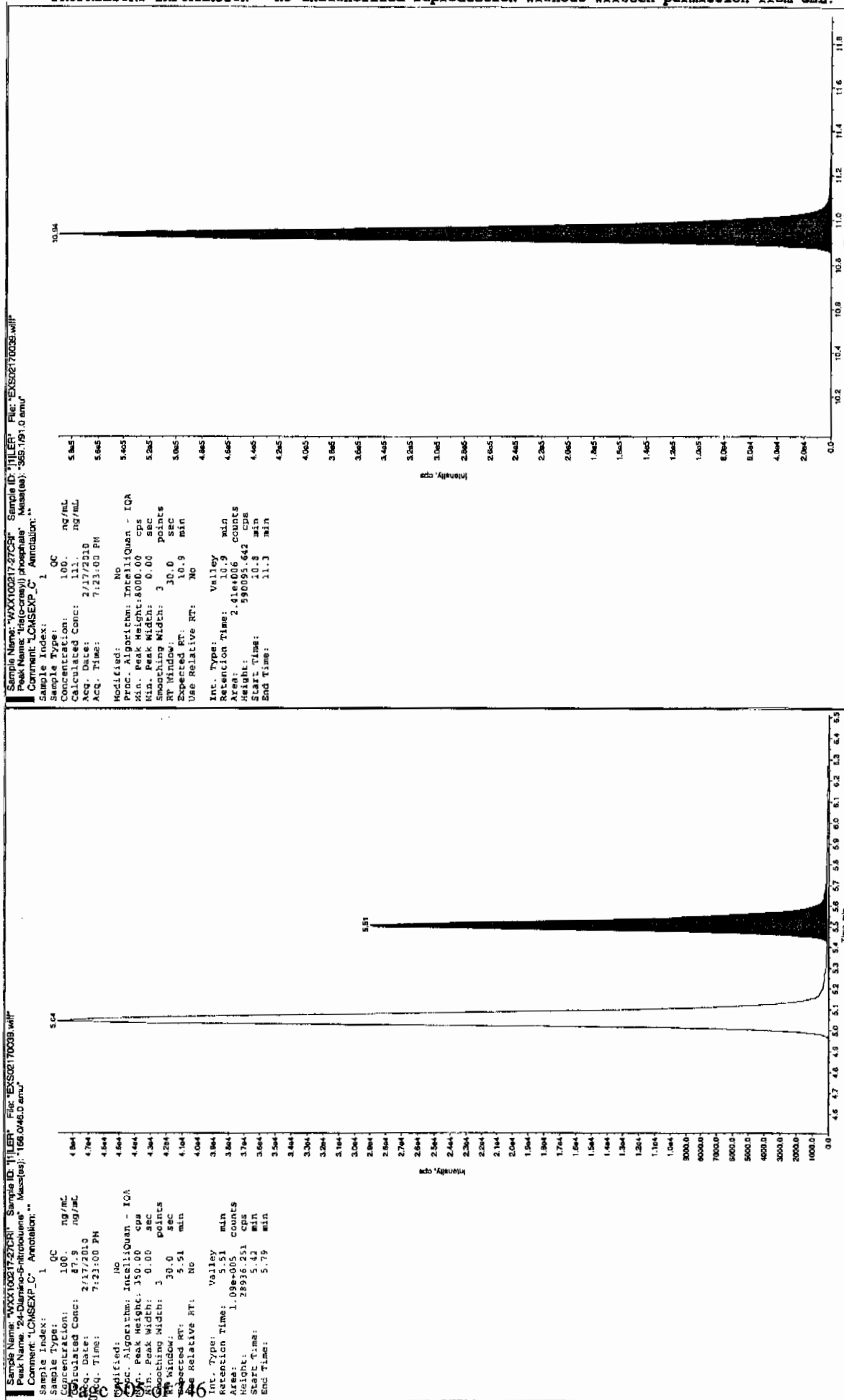
Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.8 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:23:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Width: 450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.04 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.04 min
 Area: 1.95e+005 counts
 Height: 48939.819 cps
 Start Time: 4.93 min
 End Time: 5.33 min



Sample Name: "WXX100217-27CR" Sample ID: "HLEP" File: "EXS2170039.mht"
 Peak Name: "34-Oxalotropane" Mass(es): "182.151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1
 Sample Type: QC
 Concentration: 50.0 ng/mL
 Calculated Conc: 53.1 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 7:23:00 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Width: 1460.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 30.0 points
 RT Window: 15.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.41 min
 Area: 7.07e+005 counts
 Height: 198496.106 cps
 Start Time: 8.34 min
 End Time: 8.95 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): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS02170043.wiff

Analysis Date: 17-FEB-10 20:25

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	500	100	
2,6-Diamino-4-nitrotoluene	500	503	101	
3,4-Dinitrotoluene	250	250	100	
3,5-Dinitroaniline	500	509	102	
TATB	500	483	97	
tris(o-cresyl) phosphate	500	502	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

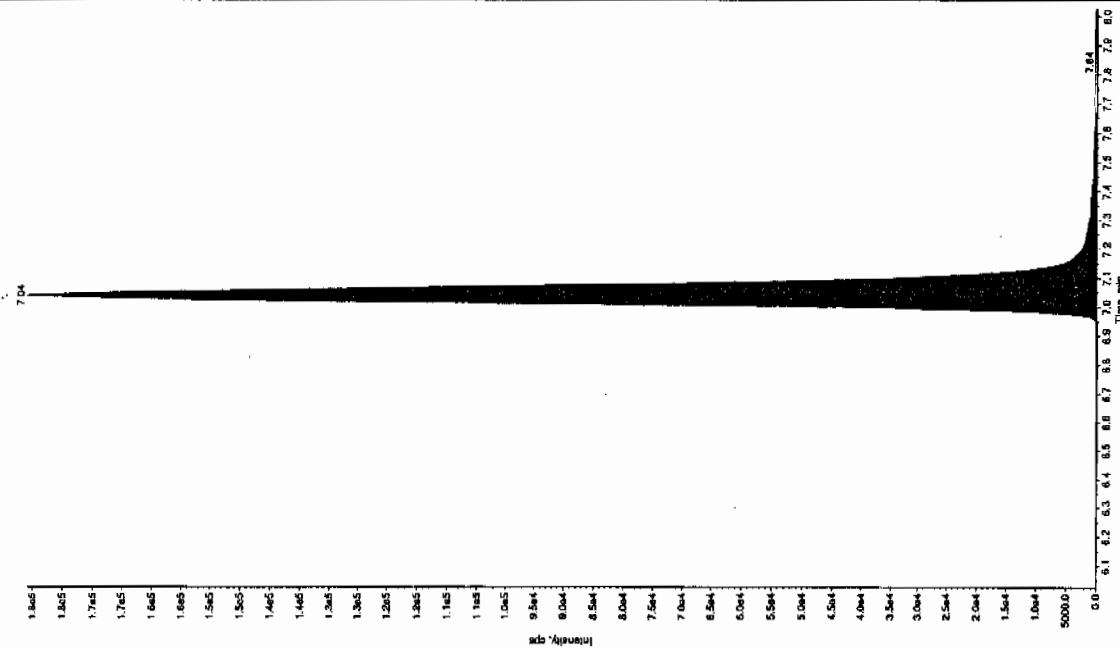
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Ken 2/19/10

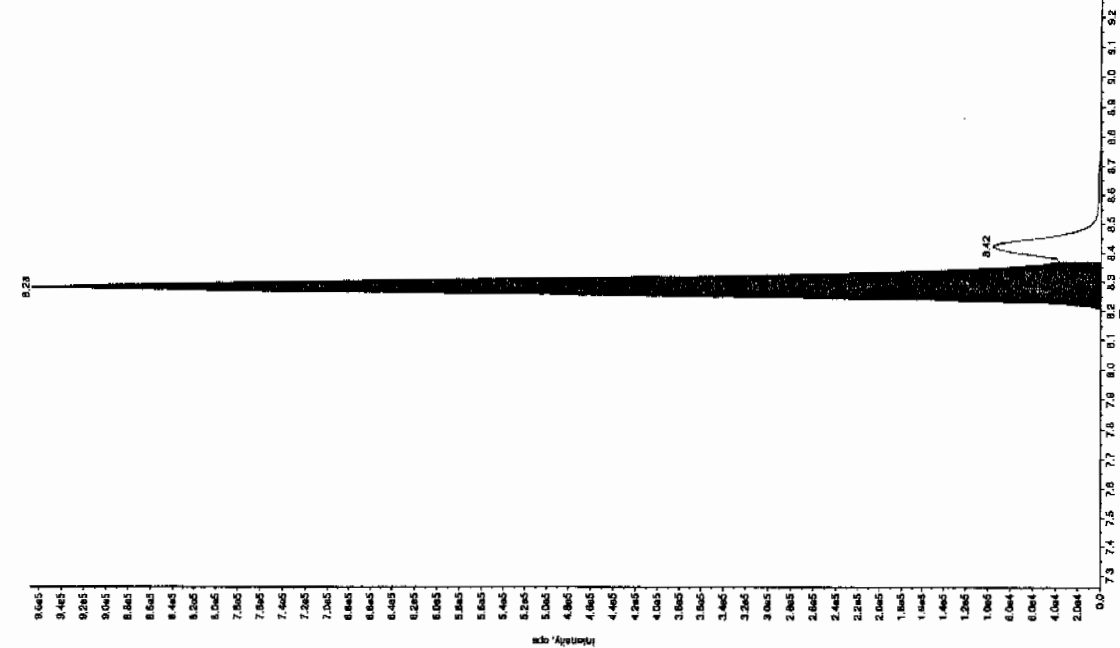
Sample Name: WXX100217260CV Sample ID: 111ER File: EX502170043.wif
Peak Name: 7.04 Retention Time: 7.04 Mass(es): 237.2004.9 amu
Concentration: 1.00 ng/mL

Sample Index: 1
Sample Type: 1
Concentration: 500.00 ng/mL
Calculated Conc: 483.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:25:47 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2500.00 cps
Min. Peak Width: 0.00 sec
Smoother Width: 30.0 points
Acquisition Rate: 10.0 cps
Specified RT: 7.03 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 7.04 min
Area: 8.21e+005 counts
Height: 180905.807 cps
Start Time: 6.87 min
End Time: 7.07 min



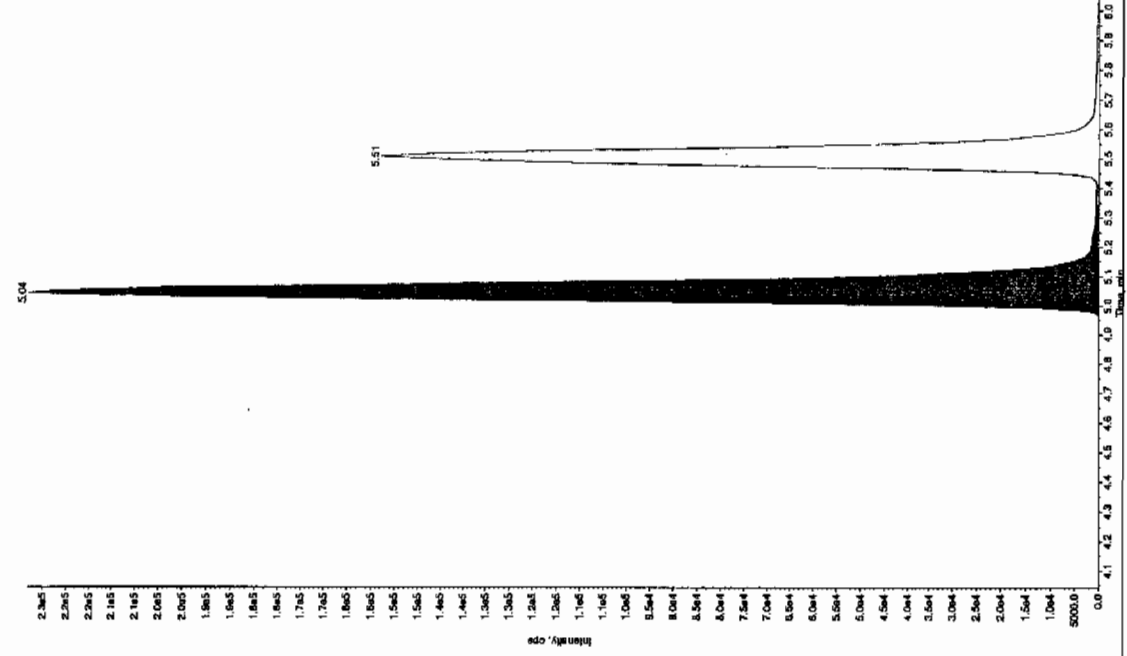
Sample Name: WXX100217260CV Sample ID: 111ER File: EX502170043.wif
Peak Name: 8.42 Retention Time: 8.42 Mass(es): 182.046.0 amu
Concentration: 1.00 ng/mL

Sample Index: 1
Sample Type: 1
Concentration: 500.00 ng/mL
Calculated Conc: 509.00 ng/mL
Acq. Date: 2/27/2010
Acq. Time: 8:25:47 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoother Width: 30.0 points
Acquisition Rate: 10.0 cps
Specified RT: 8.42 min
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.42 min
Area: 3.74e+006 counts
Height: 968300.720 cps
Start Time: 8.19 min
End Time: 8.37 min



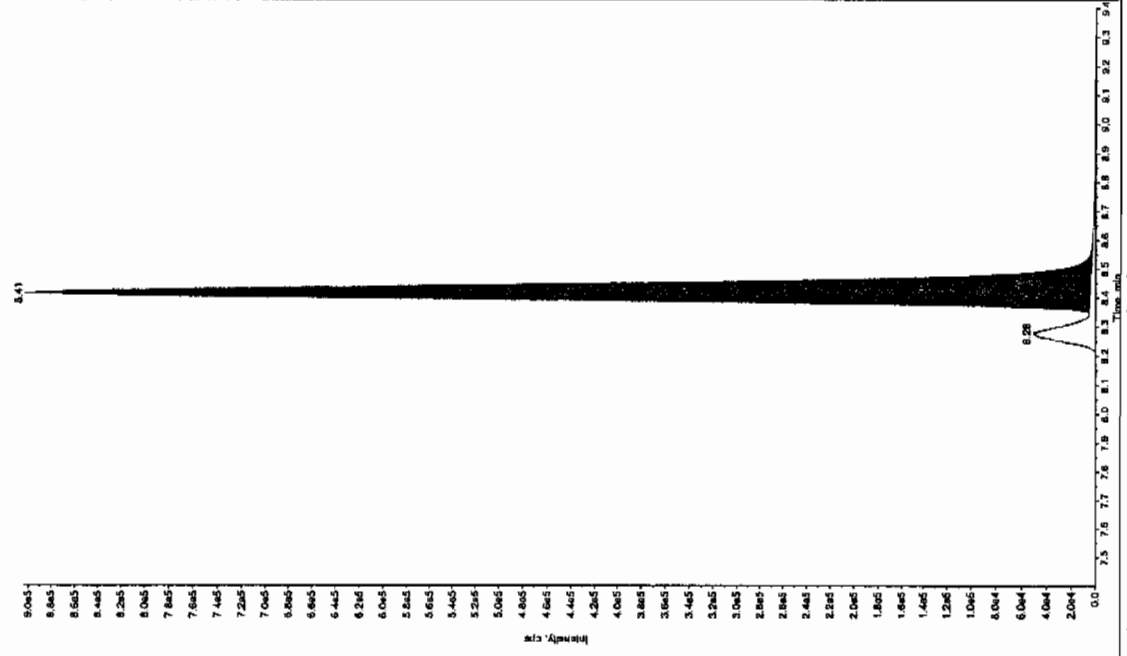
Sample Name: "WXX100217260CV" Sample ID: "HLEP" File: "EXS02170043.wif"
 Peak Name: "34-Dihydroquinone" Mass(es): "162.1/151.9 amu"
 Comment: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1 QC
 Concentration: 500 ng/mL
 Calculated Conc: 500 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 5:25:47 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: 9.90e+005 counts
 Height: 228248.566 cps
 Start Time: 4.94 min
 End Time: 5.34 min



Sample Name: "WXX100217260CV" Sample ID: "HLEP" File: "EXS02170043.wif"
 Peak Name: "34-Dihydroquinone" Mass(es): "162.1/151.9 amu"
 Comment: "LCMSXP_C" Annotation: "

Sample Index: 1 QC
 Sample Type: 1 QC
 Concentration: 250 ng/mL
 Calculated Conc: 250 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 8:25:47 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: 8.41 min
 Area: 3.33e+006 counts
 Height: 899135.742 cps
 Start Time: 8.34 min
 End Time: 8.62 min



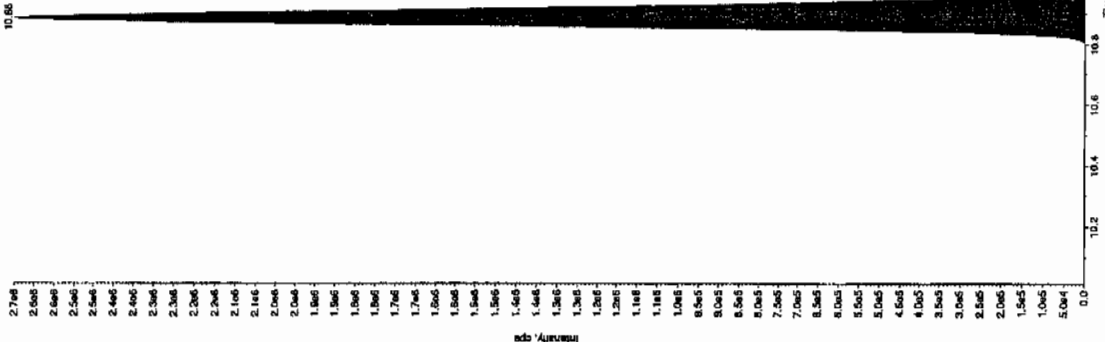
Sample Name: "WXX10017-280CV" Sample ID: "111ER" File: "EXS02170043.wif"
 Peak Name: "Is(iso-creatyl) phosphate" Mass(es): "369.181.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 502. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 8:25:47 PM

Modified: No
 Proc. Algorithm: InCelliQuan - IQA
 Min. Peak Height: 800.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.09e+007 counts
 Height: 264989.683 cps
 Start Time: 10.9 min
 End Time: 11.3 min



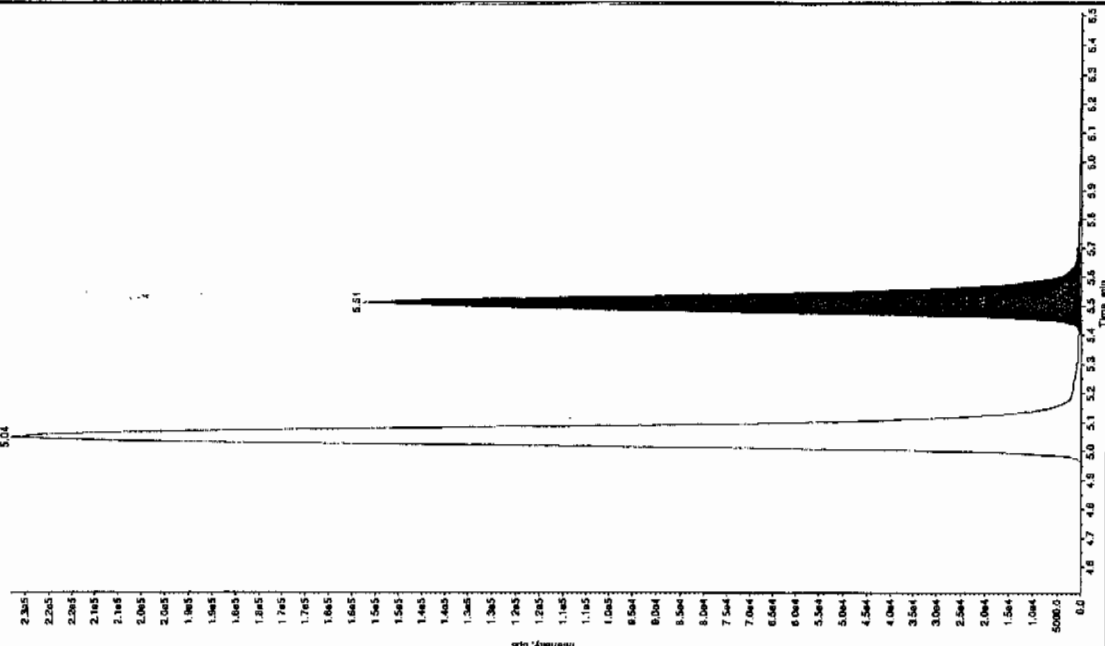
Sample Name: "WXX10017-280CV" Sample ID: "111ER" File: "EXS02170043.wif"
 Peak Name: "24-Diamino-6-nitrothiols" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: OC
 Concentration: 500. ng/mL
 Calculated Conc: 500. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 8:25:47 PM

Modified: No
 Proc. Algorithm: InCelliQuan - IQA
 Min. Peak Height: 250.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.51 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 5.51 min
 Area: 8.18e+007 counts
 Height: 155609.437 cps
 Start Time: 5.40 min
 End Time: 5.87 min



7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1470

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS02170045.wiff

Analysis Date: 17-FEB-10 20:57

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	101	101	
2,6-Diamino-4-nitrotoluene	100	109	109	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	108	108	
TATB	100	98.9	99	
tris(o-cresyl) phosphate	100	112	112	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

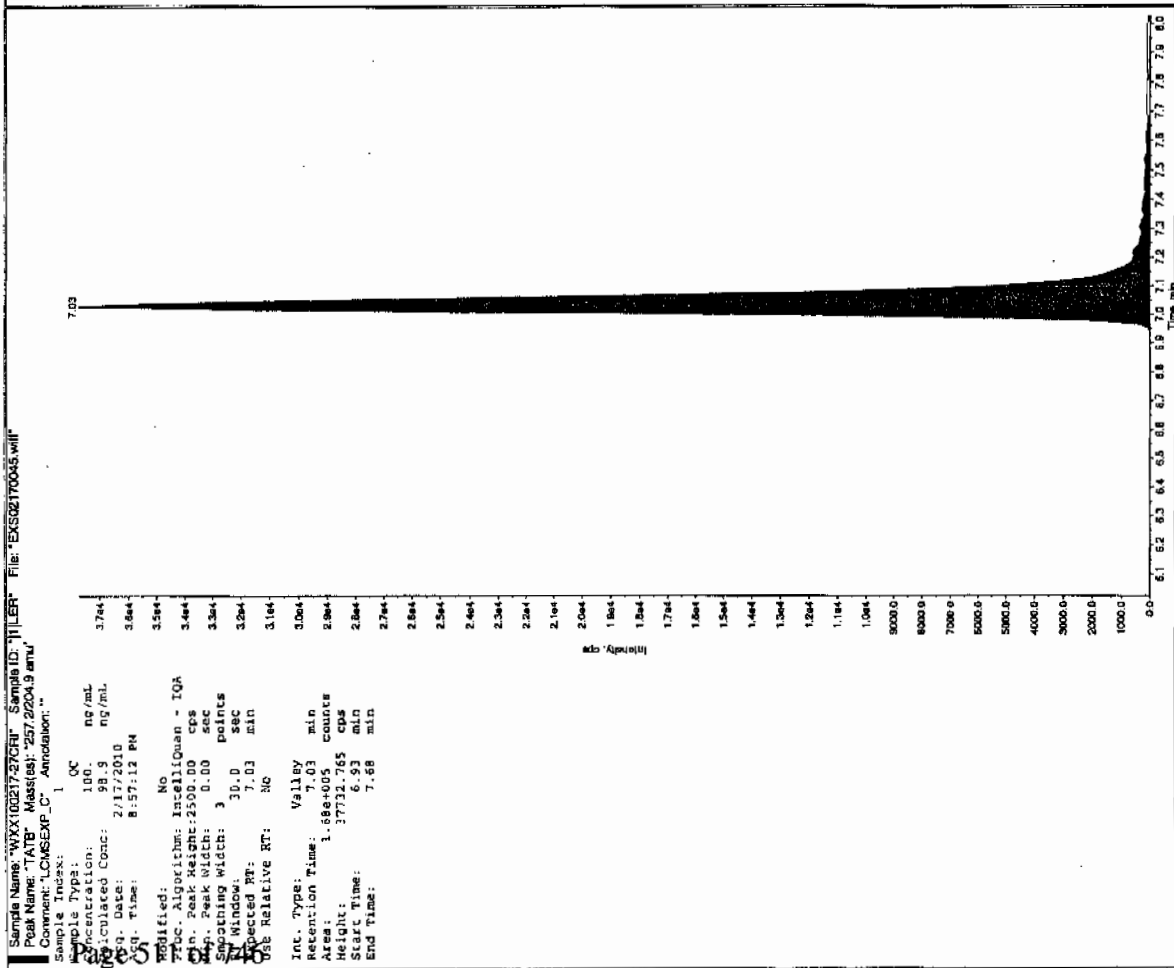
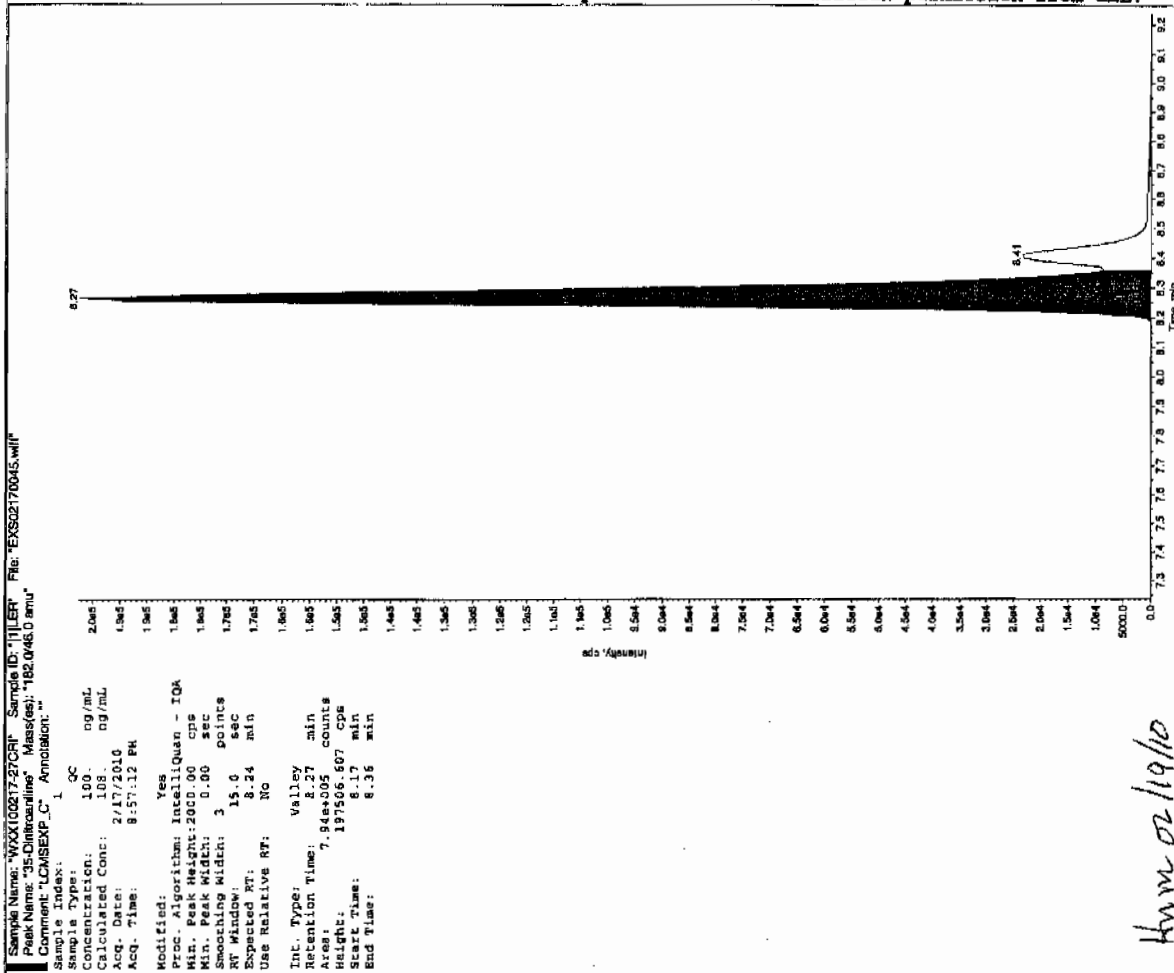
2,4-Diamino-6-nitrotoluene 50-150%

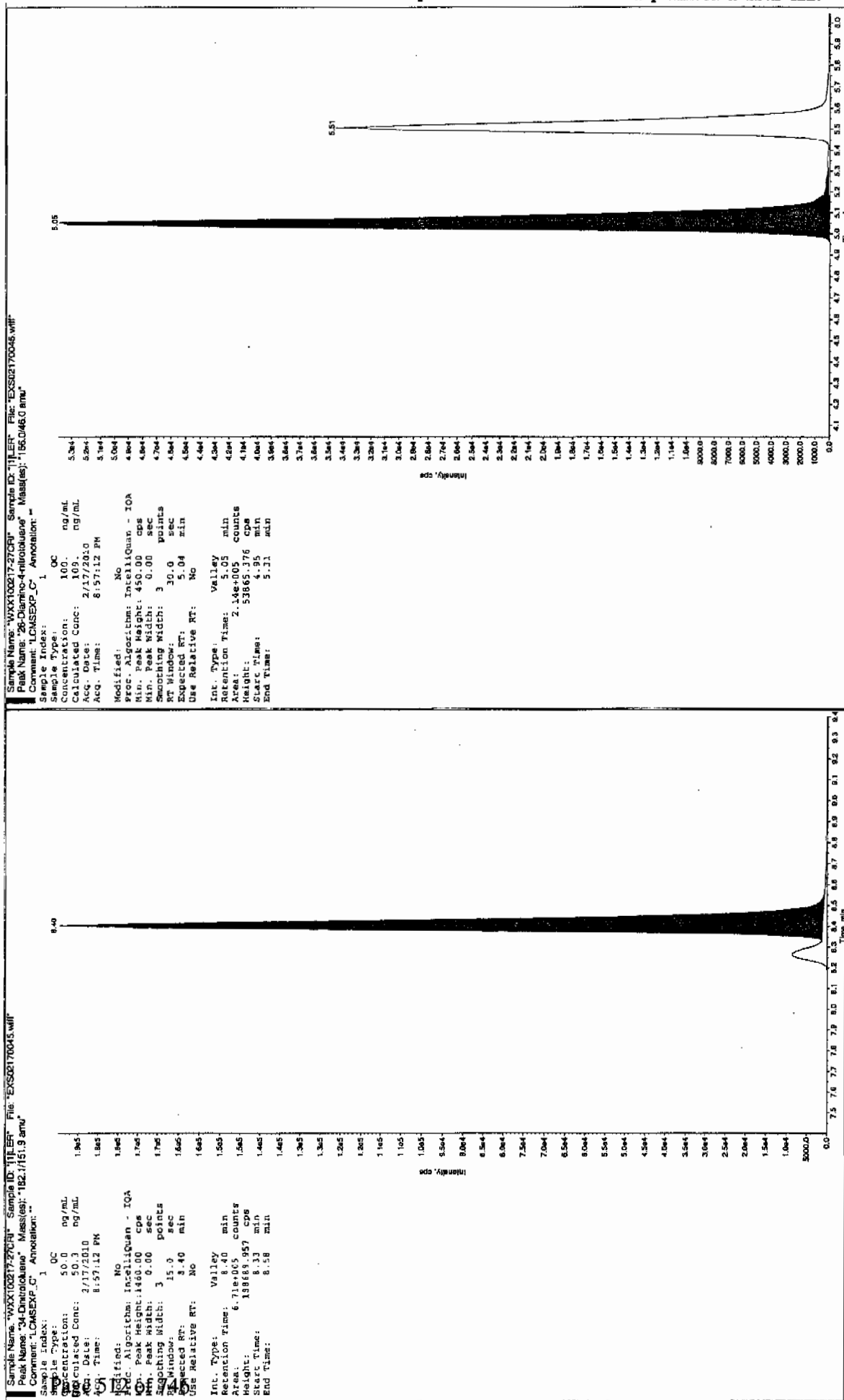
Other Target Analytes 70-130%

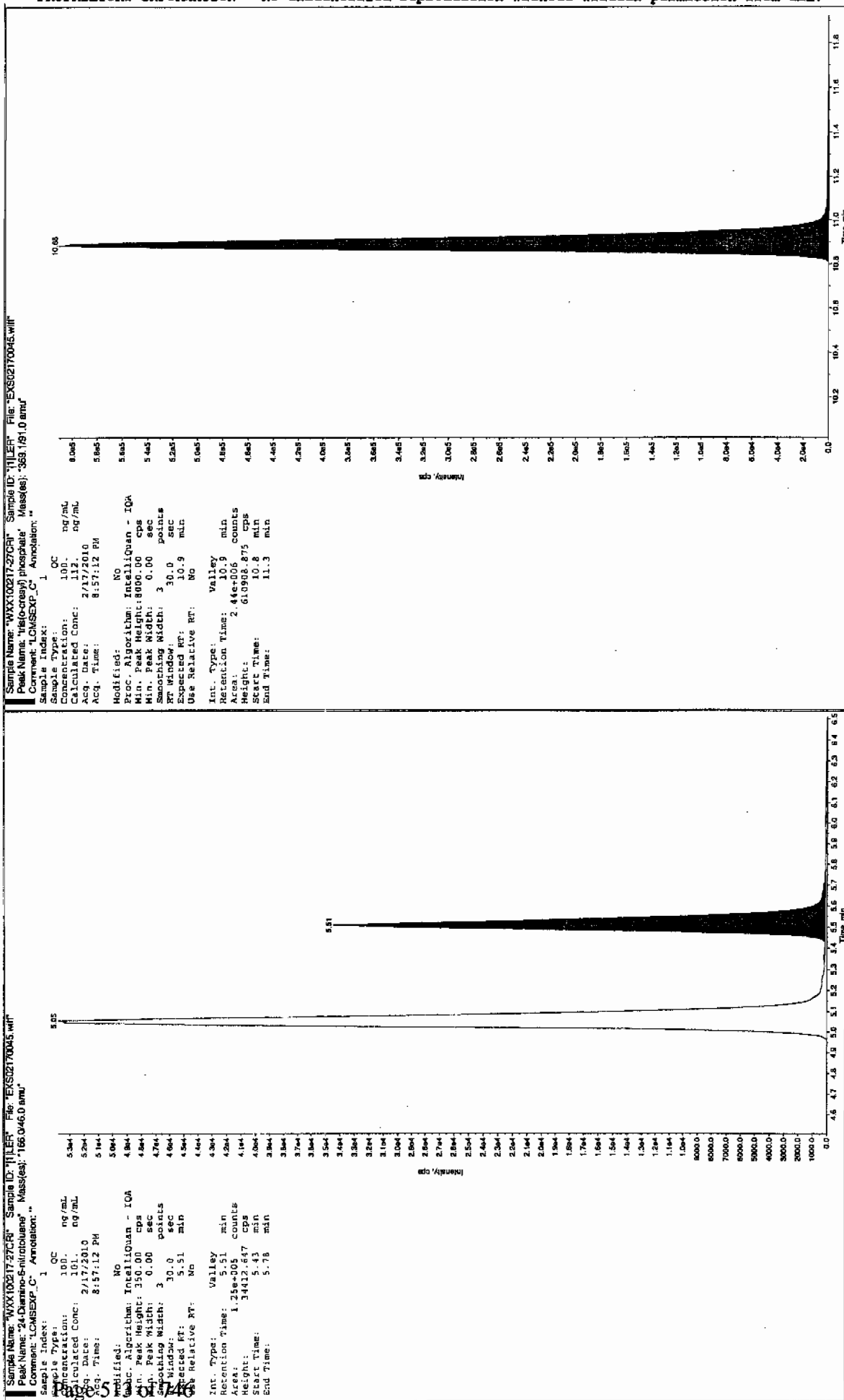
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 2/19/10







QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947088

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028685

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216180a

Date Analyzed: 20-FEB-10 09:55

Units: ug/kg

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

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qtd, Time: Sun Feb 21 12:00:43 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\021610expa.mdb, Time: Wed Feb 17 09:19:04 2010
Calibration: C:\MASSLYNX\New_Exp.PRO\CurveDB\021610expa.cdb, Time: Wed Feb 17 10:00:06 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216180a

Date: 20-Feb-2010

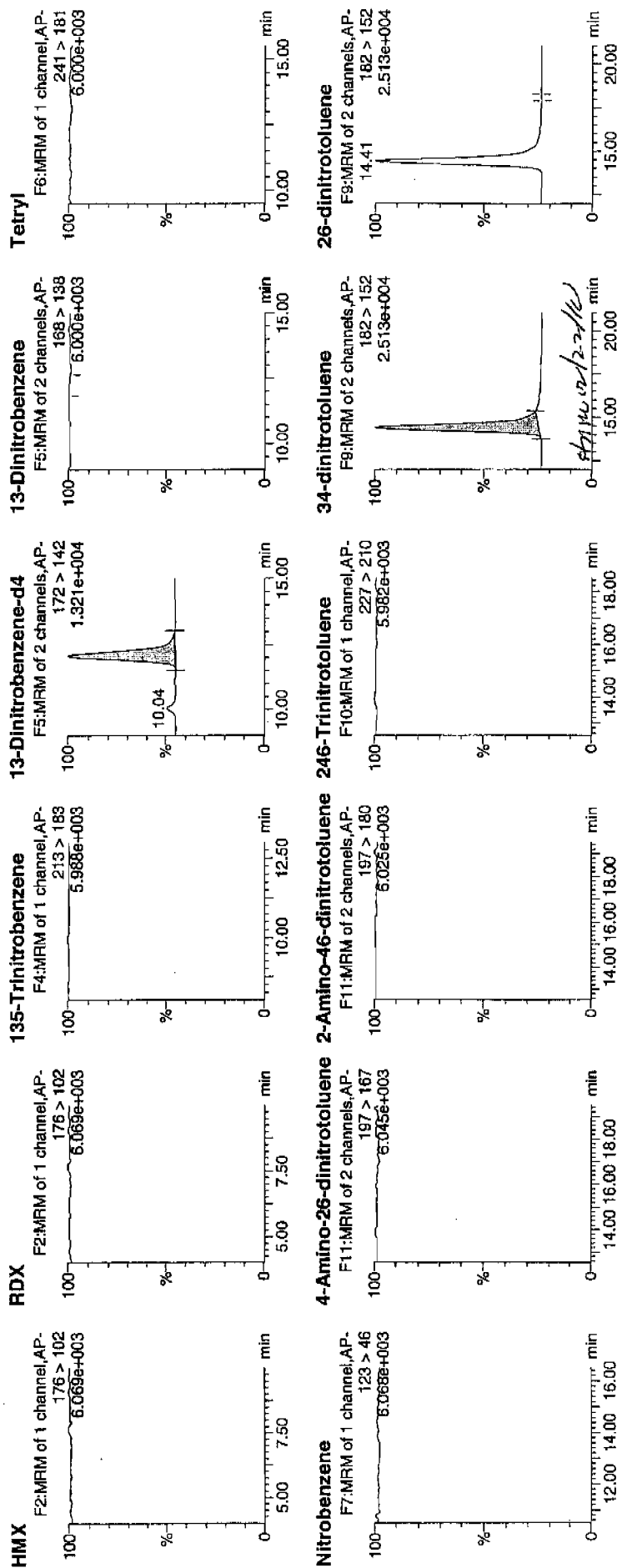
Time: 09:55:11

ID: 1202028685

Vial: 4:3A

1477
2/21/10

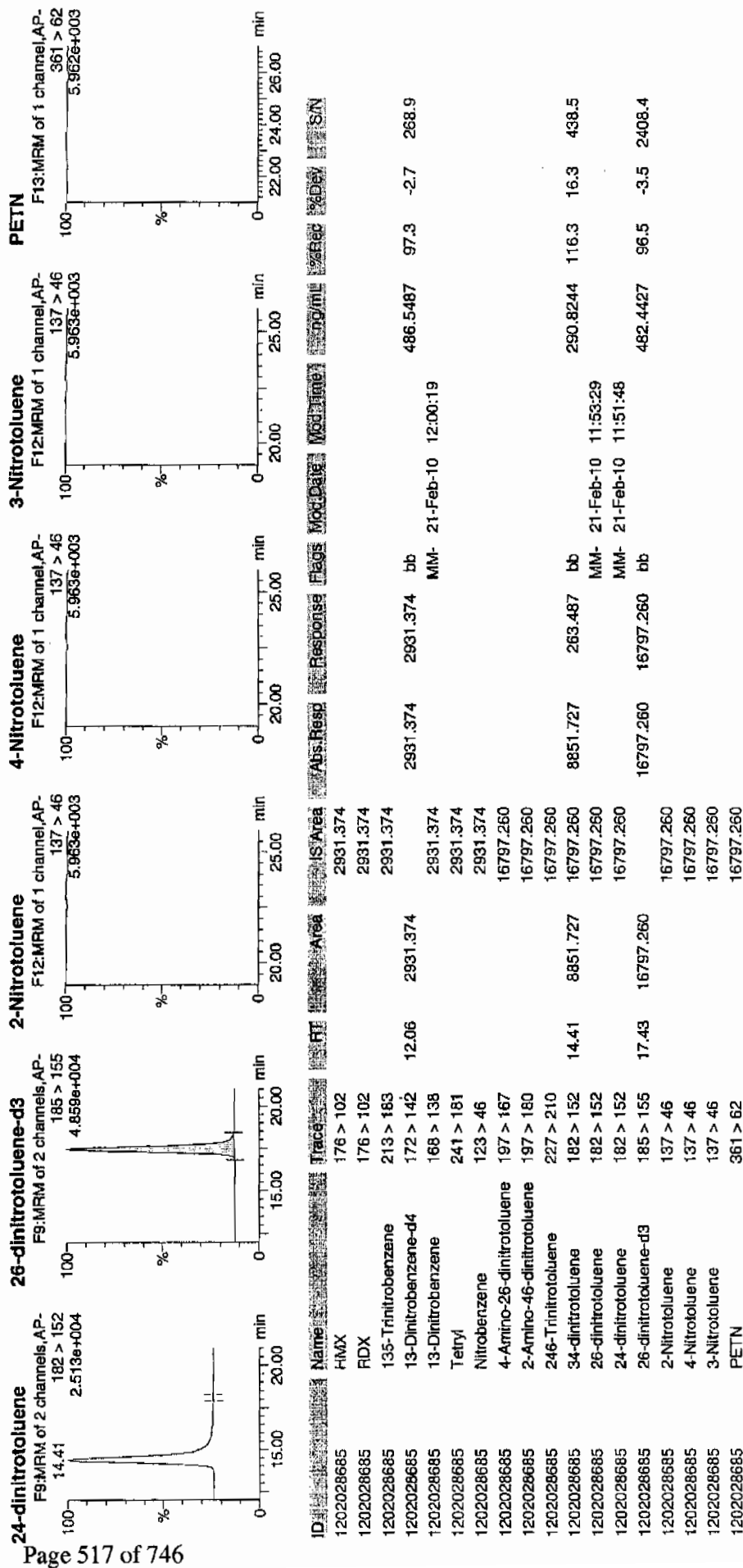
1477
2/21/10
1477
2/21/10



Printed: Sun Feb 21 12:01:24 2010, Page 2 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 947088

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028685

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170014.wiff

Date Analyzed: 17-FEB-10 12:50

Units: ug/kg

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

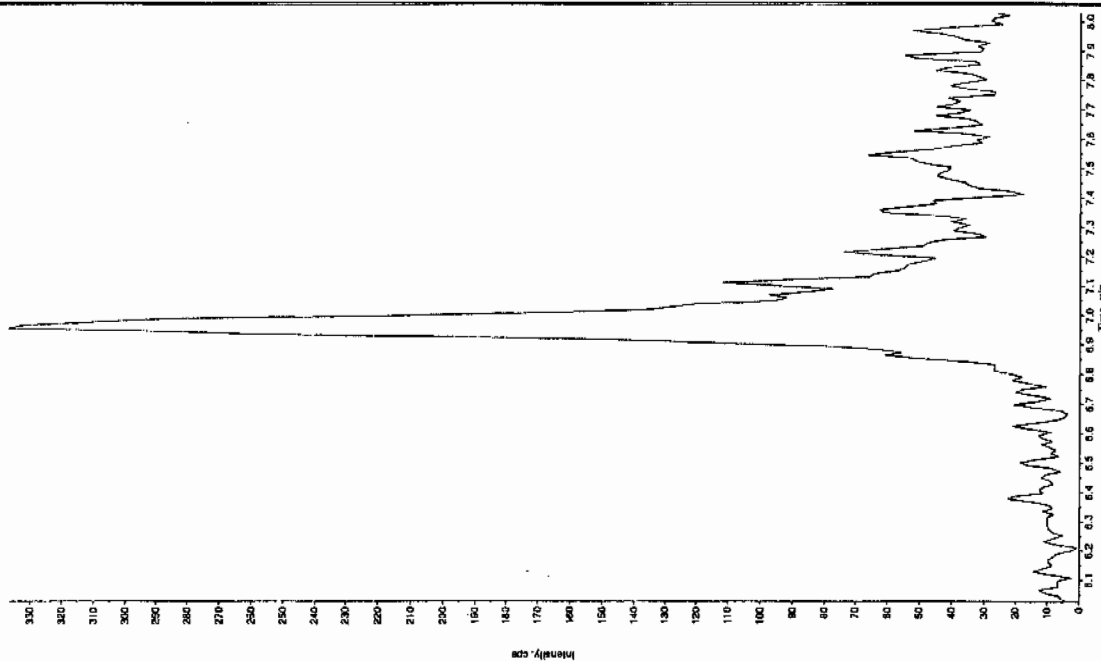
*Concentration =

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

See 2/19/10

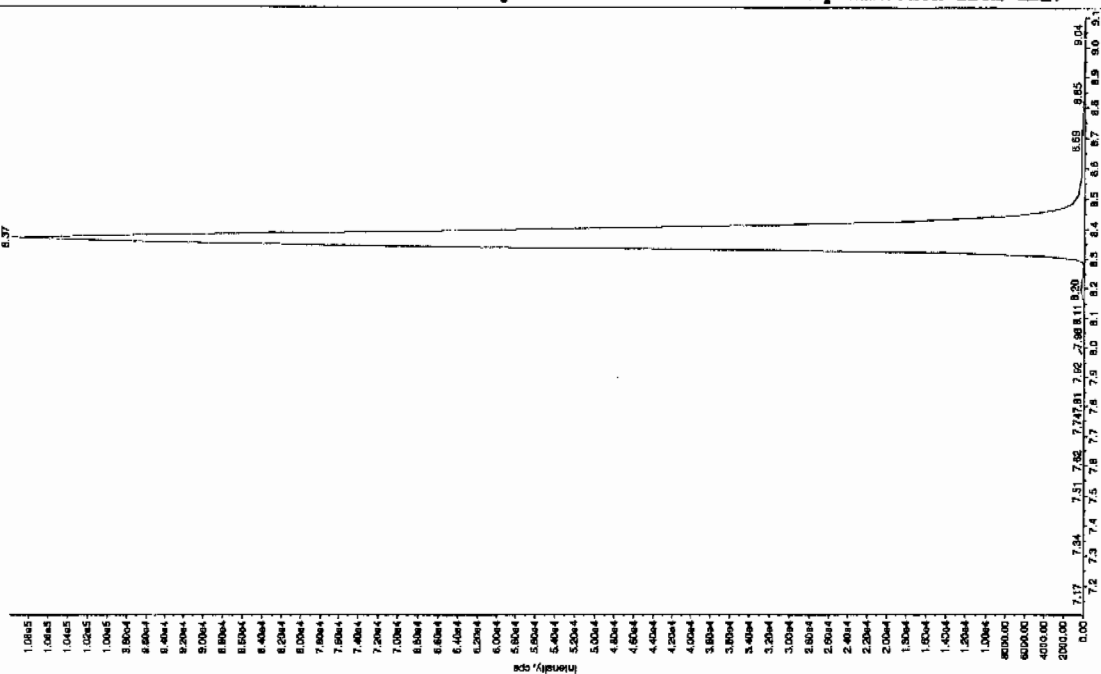
Sample Name: "TATB" Mass(es): "57.2604.9 amu" File: "EXS02170014.will"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Time: 12:50:25 PM
 Modified: No



Sample Name: "120202685" Sample ID: "9470821LER" File: "EXS02170014.will"

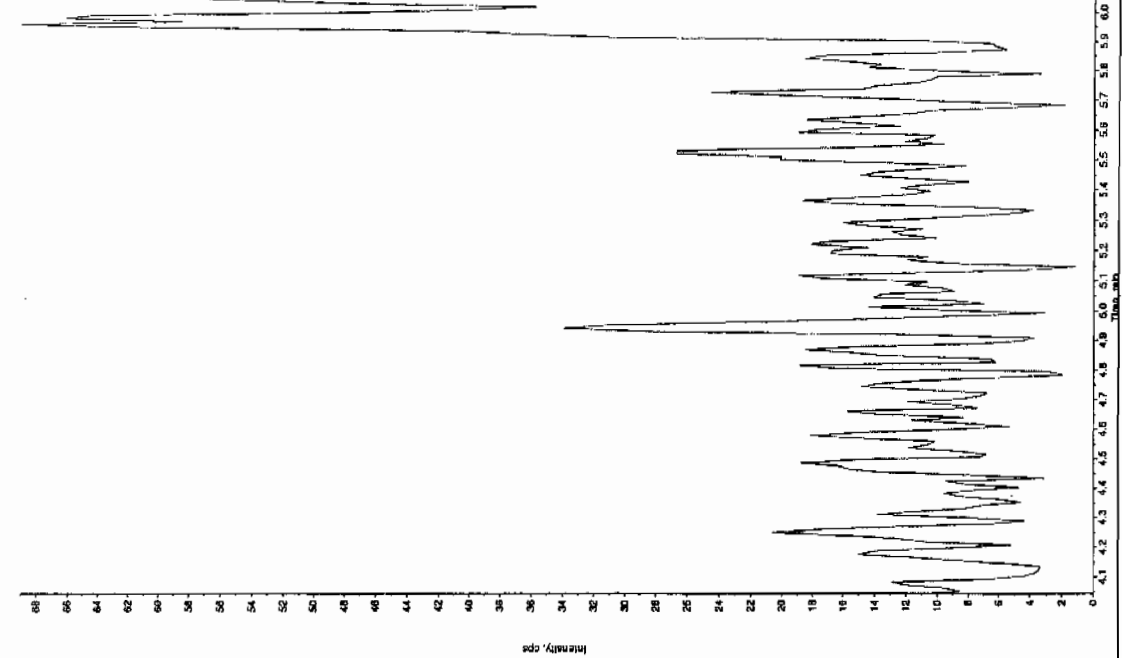
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.0 ng/mL
 Calculated Conc: 2/17/2010
 Acq. Time: 12:50:25 PM
 Modified: Yes



thru 2/19/10

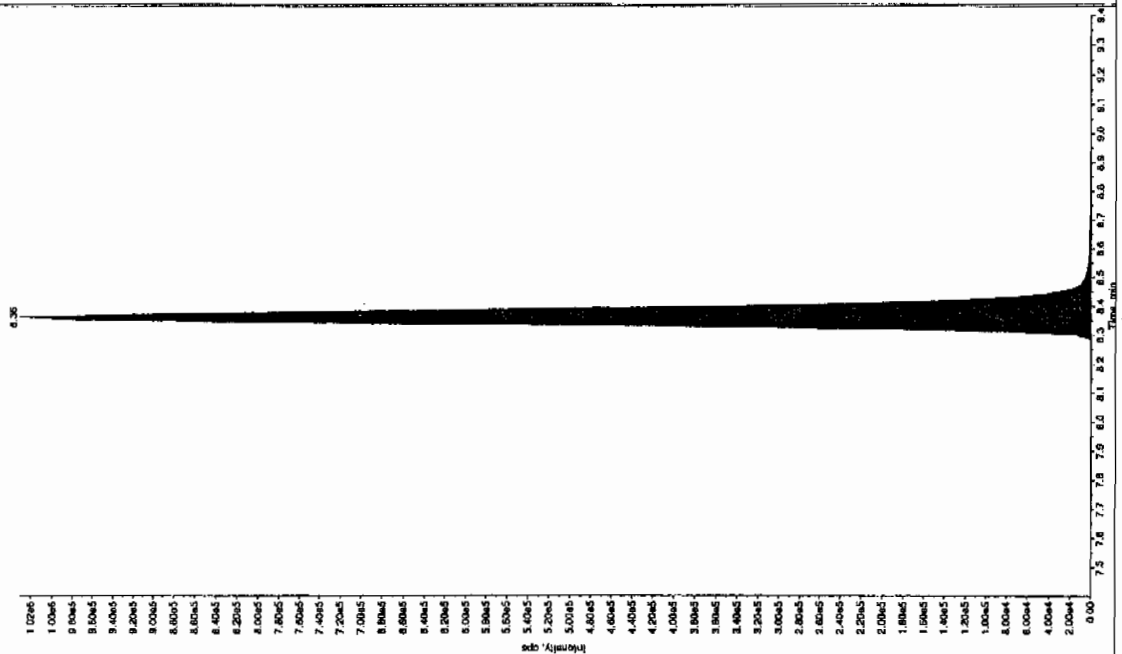
Sample Name: "120202685" Sample ID: "94708921ER" File: "EX502170014.wil"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:50:25 PM
 Modified: No



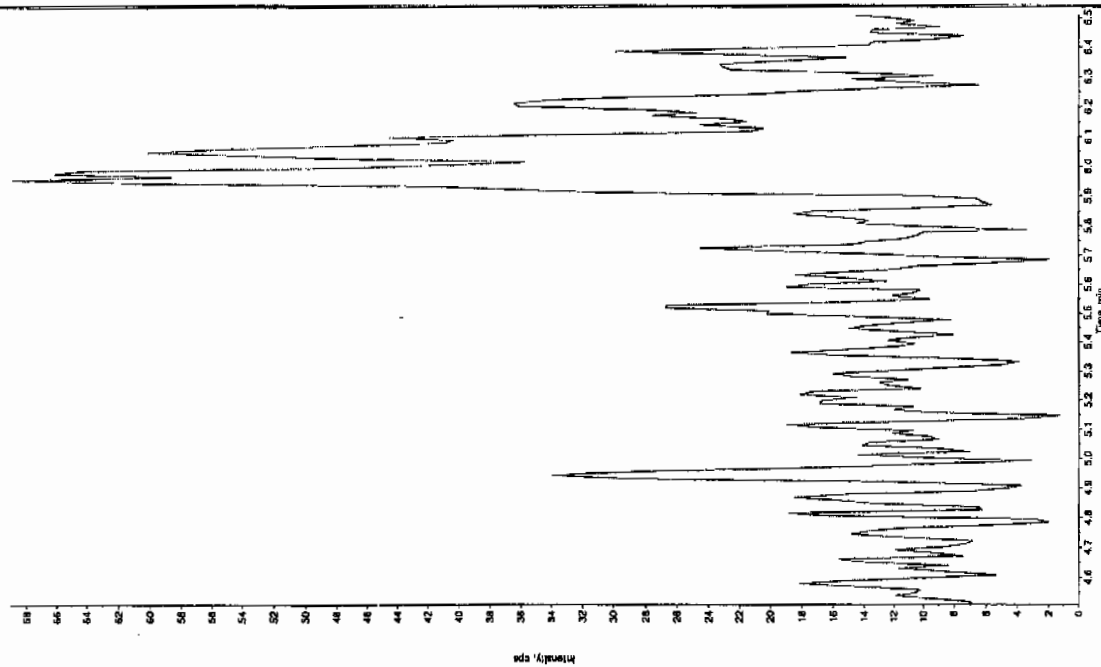
Sample Name: "120202685" Sample ID: "94708921ER" File: "EX502170014.wil"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Sample Concentration: N/A
 Calculated Conc: 301 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:50:25 PM
 Modified: No
 Acq. Algorithm: IntelliQuan - ICA
 Calc. Peak Height: 1450.00 cps
 Calc. Peak Width: 0.60 sec
 Acq. Width: 15.0 points
 Acq. RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.36 min
 Area: 4.01e+005 counts
 Height: 1630414.917 cps
 Start Time: 8.26 min
 End Time: 8.53 min



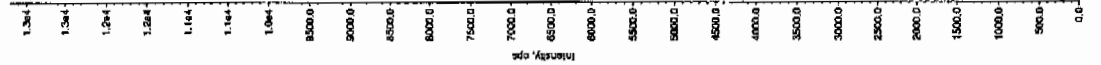
Sample Name: "120202855" Sample ID: "94708921LER" File: "EXS02170014.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "186.046.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 mg/mL
 Acq. Date: 2/17/2010
 Acq. Time: 11:59:25 PM
 Modified: No



Sample Name: "120202855" Sample ID: "94708921LER" File: "EXS02170014.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "355.191.0 amu"
 Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2/17/2010 mg/mL
 Acq. Date: 2/17/2010
 Acq. Time: 12:50:25 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Peak Height: 4.95e+04 counts
 Peak Area: 12962.493 cps
 Start Time: 10.7 min
 End Time: 11.0 min



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947088

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028686

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216181a

Date Analyzed: 20-FEB-10 10:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5160	
121-14-2	2,4-Dinitrotoluene	4590	
121-82-4	RDX	4980	
19406-51-0	4-Amino-2,6-dinitrotoluene	4990	
2691-41-0	HMX	4780	
35572-78-2	2-Amino-4,6-dinitrotoluene	5770	
479-45-8	Tetryl	1960	
606-20-2	2,6-Dinitrotoluene	4790	
78-11-5	PETN	5400	
88-72-2	o-Nitrotoluene	4220	
98-95-3	Nitrobenzene	4680	
99-08-1	m-Nitrotoluene	3890	
99-35-4	1,3,5-Trinitrobenzene	4170	
99-65-0	m-Dinitrobenzene	4880	
99-99-0	p-Nitrotoluene	4340	

*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\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216181a

Date: 20-Feb-2010

Time: 10:25:22

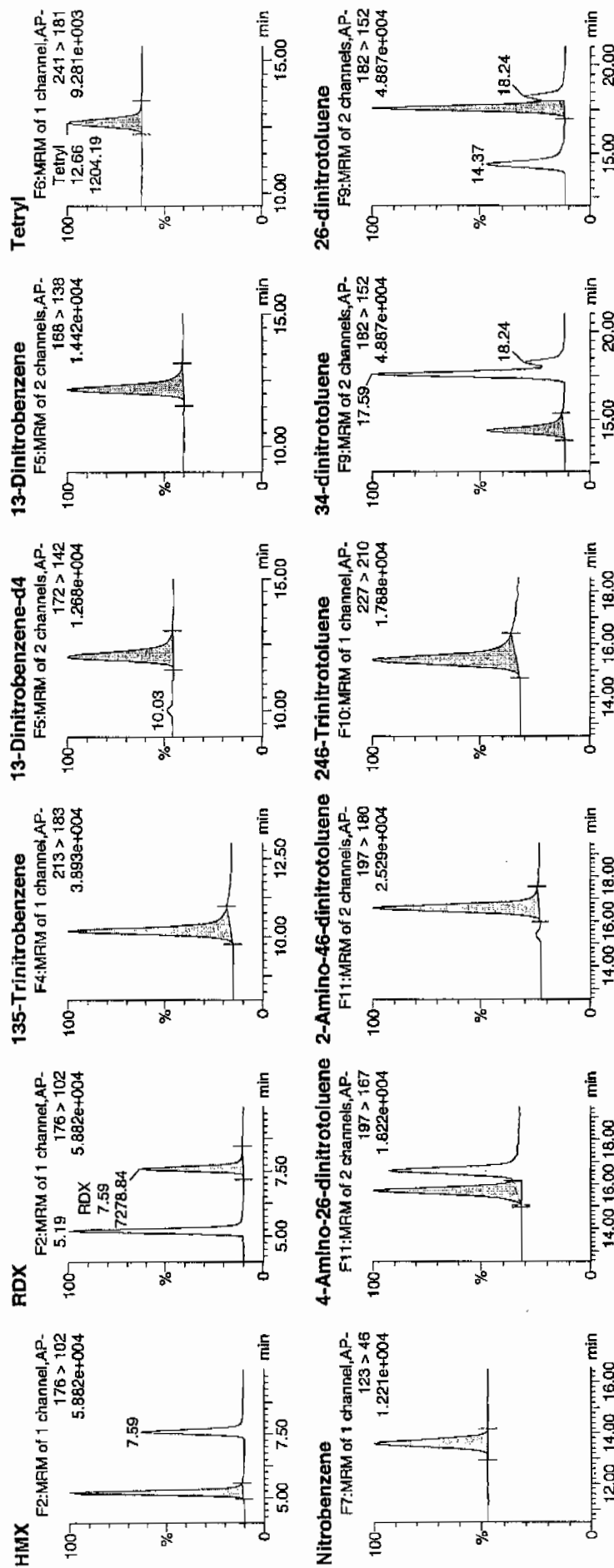
ID: 1202028686

Vial: 4:3,B

↓ TETYL

1047
4/2/10

WAL 947089 / SACS / CS / 2 /

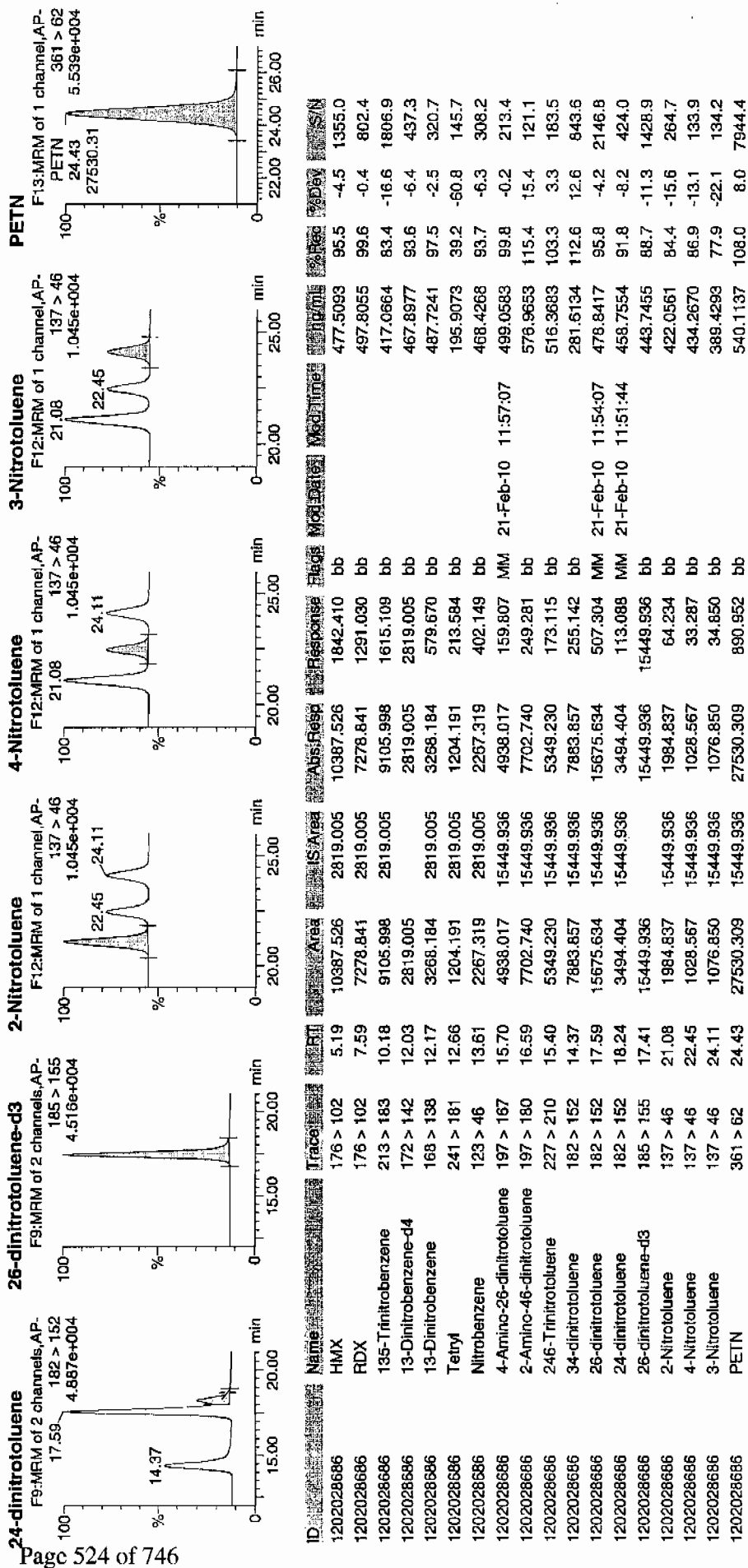


4/11/10
2/2/10

Printed: Sun Feb 21 12:01:24 2010, Page 4 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 947088

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028686

Sample Amount 2

Moisture:

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170015.wiff

Date Analyzed: 17-FEB-10 13:06

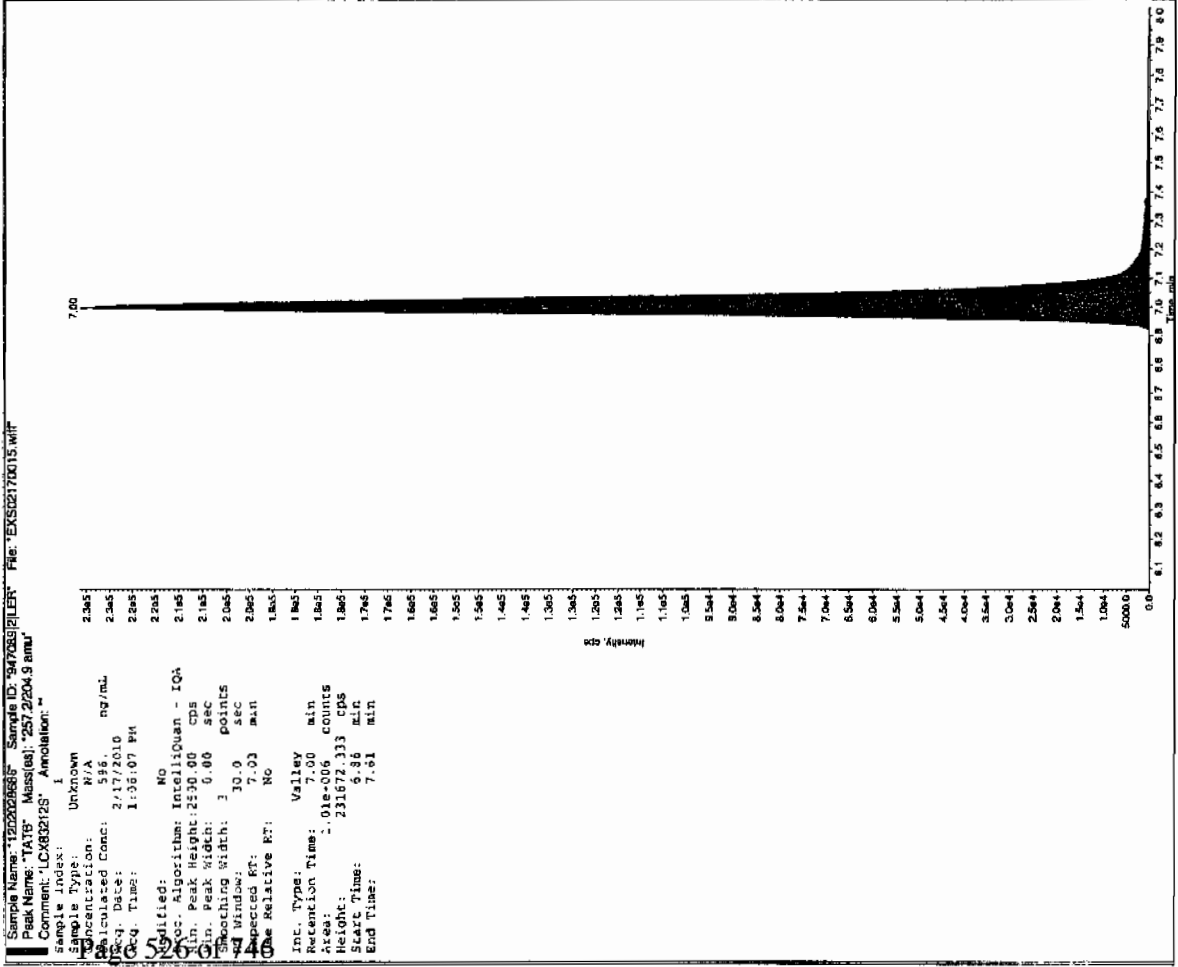
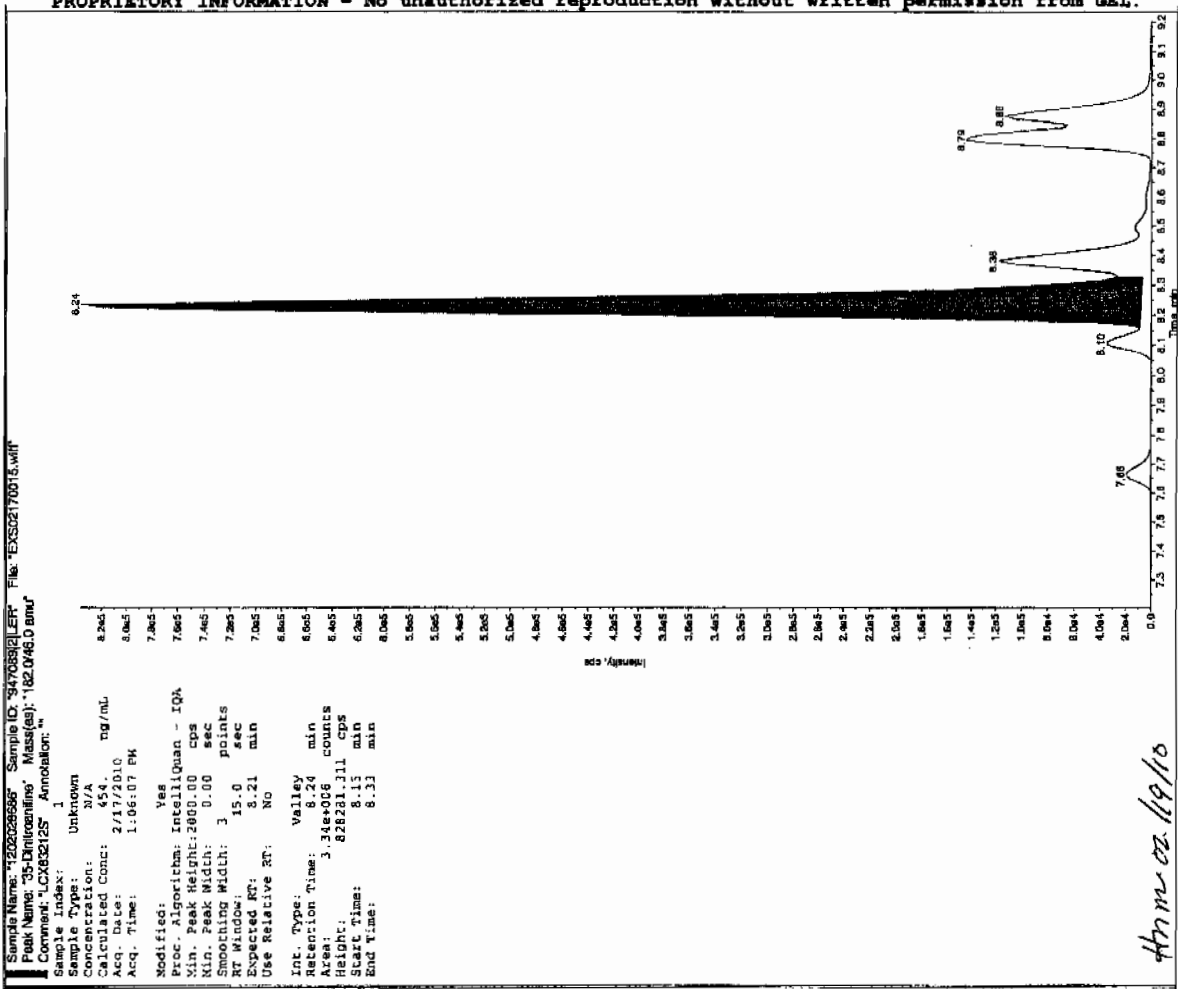
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5960	
59229-75-3	2,6-Diamino-4-nitrotoluene	5340	
618-87-1	3,5-Dinitroaniline	4540	
6629-29-4	2,4-Diamino-6-nitrotoluene	4550	
78-30-8	tris(o-cresyl) phosphate	4910	

*Concentration =

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

Scan 219/10



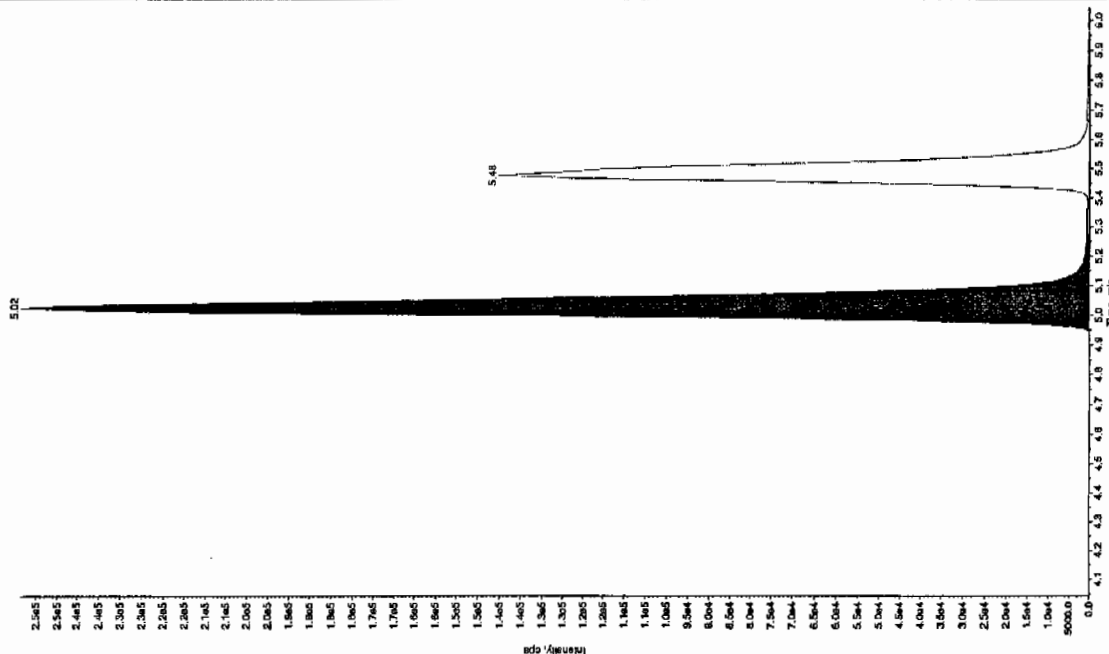
Am m. 02.19/10

Sample Name: "120020555" Sample ID: "94708921ER" File: "EX02170015.wif"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 534. ng/mL
Acq. Date: 2/17/2010
Acq. Time: 1:06:07 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 450.00 cps
Min. Peak Width: 3.00 points
Smoothing Width: 30.0 sec
RT Window: 5.04 min
Expected RT: No
Use Relative RT: No
Int. Type: Valley
Retention Time: 5.02 min
Area: 1.05e+006 counts
Height: 253489.380 cps
Start Time: 4.93 min
End Time: 5.28 min

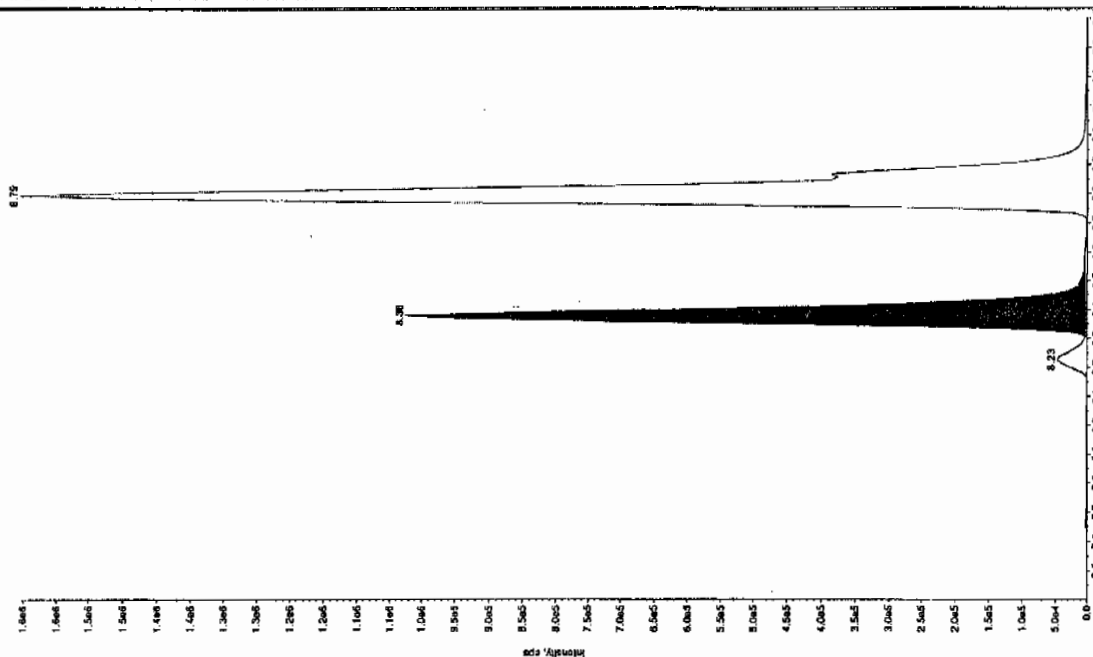


Sample Name: "120020555" Sample ID: "94708921ER" File: "EX02170015.wif"

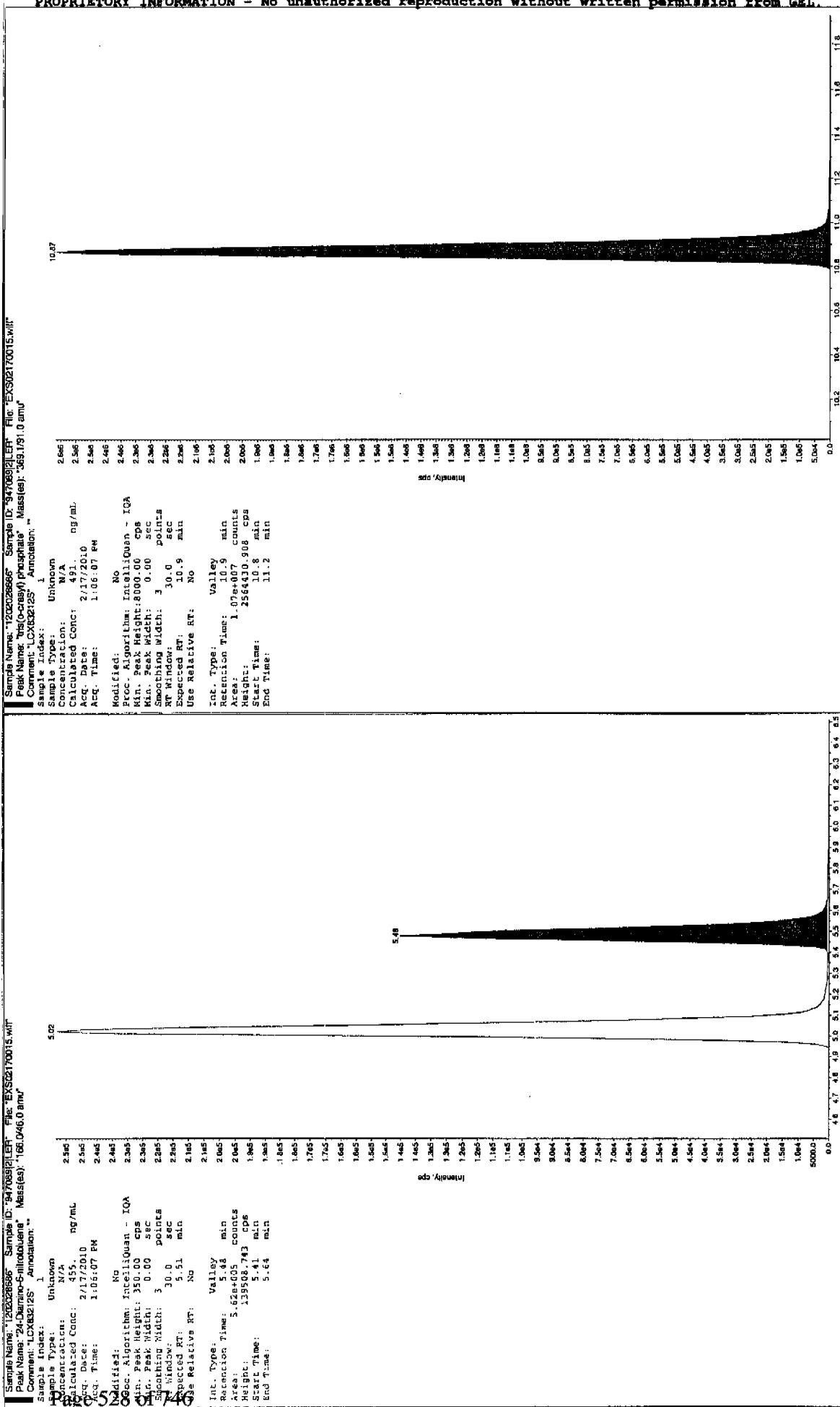
Peak Name: "34-Chlorofluorene" Mass(es): "162.17151.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 284. ng/mL
Acq. Date: 2/17/2010
Acq. Time: 1:06:07 PM
Modified: No
Proc. Algorithm: IntelliQuan - IQA
Min. Peak Height: 1450.00 cps
Min. Peak Width: 3.00 points
Smoothing Width: 15.0 sec
RT Window: 3.40 min
Expected RT: No
Use Relative RT: No
Int. Type: Valley
Retention Time: 8.38 min
Area: 3.79e+006 counts
Height: 102237.268 cps
Start Time: 8.30 min
End Time: 8.51 min



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888(245795001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028687

Sample Amount 2

Moisture: 2.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216183a

Date Analyzed: 20-FEB-10 11:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5530	
121-14-2	2,4-Dinitrotoluene	5490	
121-82-4	RDX	4880	
19406-51-0	4-Amino-2,6-dinitrotoluene	5130	
2691-41-0	HMX	4870	
35572-78-2	2-Amino-4,6-dinitrotoluene	5690	
479-45-8	Tetryl	3140	
606-20-2	2,6-Dinitrotoluene	5100	
78-11-5	PETN	5270	
88-72-2	o-Nitrotoluene	4570	
98-95-3	Nitrobenzene	4360	
99-08-1	m-Nitrotoluene	4400	
99-35-4	1,3,5-Trinitrobenzene	4770	
99-65-0	m-Dinitrobenzene	5140	
99-99-0	p-Nitrotoluene	4650	

*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: Sun Feb 21 12:01:24 2010, Page 7 of 105

Dataset: C:\MASSLYNX\New_Exp_PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0216183a

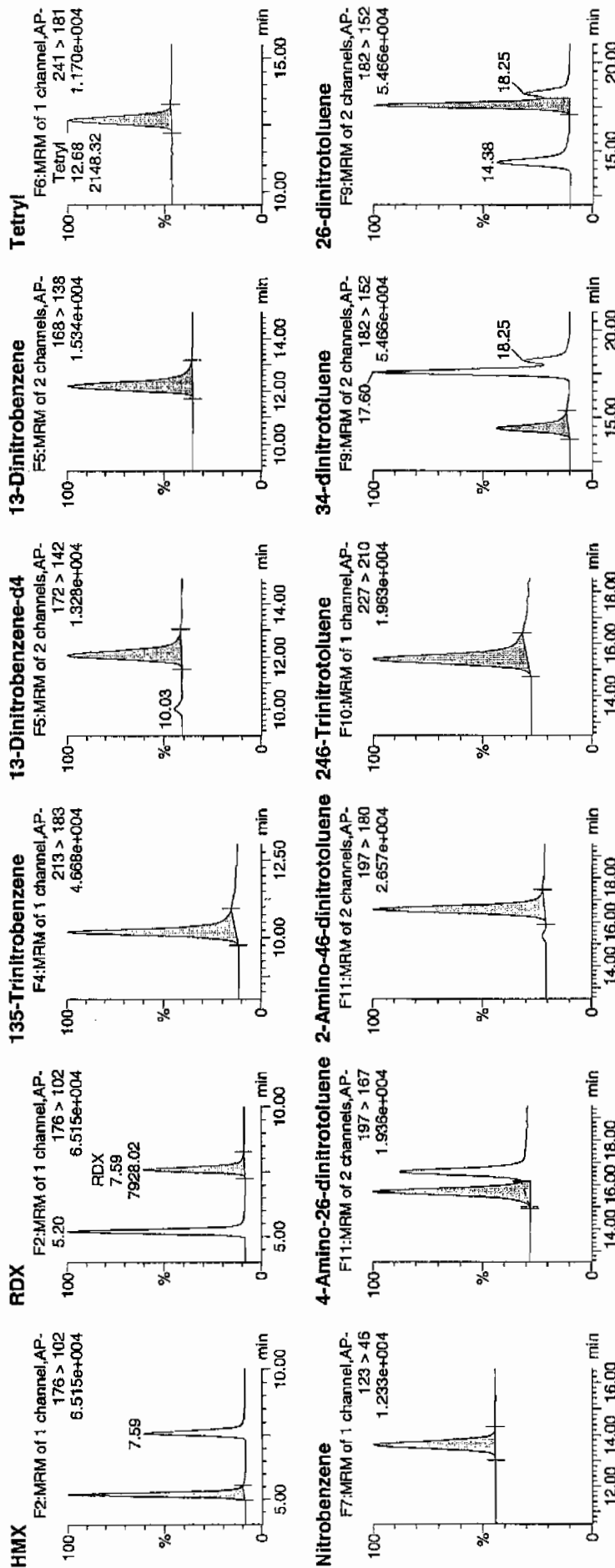
Date: 20-Feb-2010

Time: 11:25:29

ID: 1202028687

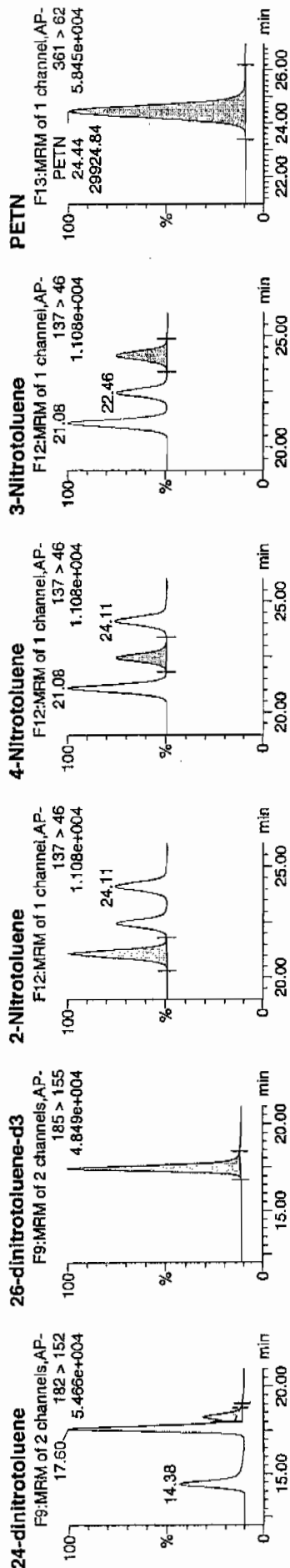
Vial: 4:3,D

4477
2/21/10
245795001 us / 21
LAW 947089 / SOLID



Handwritten signature: *Amc 2/21/10*

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.



ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod Date	Orig ID	% Rec	% Dev	SN
1202028687	HMX	176 > 102	5.20	11781.587	3134.016	11781.587	1879.631	bb		487.1561	97.4	-2.6	1537.5
1202028687	RDX	176 > 102	7.59	7928.023	3134.016	7928.023	1264.834	bb		487.7048	97.5	-2.5	877.7
1202028687	135-Trinitrobenzene	213 > 183	10.18	11581.791	3134.016	11581.791	1847.756	bb		477.1424	95.4	-4.6	1547.2
1202028687	13-Dinitrobenzene-d4	172 > 142	12.07	3134.016		3134.016	3134.016	bb		520.1831	104.0	4.0	668.3
1202028687	13-Dinitrobenzene	168 > 138	12.00	3828.062	3134.016	3828.062	610.728	bb		513.8558	102.8	2.8	242.6
1202028687	Tetryl	241 > 181	12.68	2148.318	3134.016	2148.318	342.742	bb		314.3753	62.9	-37.1	167.4
1202028687	Nitrobenzene	123 > 46	13.63	2345.777	3134.016	2345.777	374.245	bb		435.9236	87.2	-12.8	326.6
1202028687	4-Amino-26-dinitrotoluene	197 > 167	15.68	5626.742	17126.211	5626.742	164.273	MM	21-Feb-10	11:57:15	102.6	2.6	251.7
1202028687	2-Amino-46-dinitrotoluene	197 > 180	16.58	8422.721	17126.211	8422.721	245.901	bb		589.1441	113.8	13.8	825.8
1202028687	246-Trinitrotoluene	227 > 210	15.41	6348.849	17126.211	6348.849	185.355	bb		552.8773	110.6	10.6	400.4
1202028687	34-dinitrotoluene	182 > 152	14.38	8566.688	17126.211	8566.688	250.105	bb		276.0533	110.4	10.4	542.2
1202028687	26-dinitrotoluene	182 > 152	17.60	18506.498	17126.211	18506.498	540.296	MM	21-Feb-10	11:54:16	102.0	2.0	1467.0
1202028687	24-dinitrotoluene	182 > 152	18.25	4635.242	17126.211	4635.242	135.326	MM	21-Feb-10	11:51:31	109.8	9.8	336.0
1202028687	26-dinitrotoluene-d3	185 > 155	17.42	17126.211		17126.211	17126.211	bb		491.8906	98.4	-1.6	1172.1
1202028687	2-Nitrotoluene	137 > 46	21.08	2382.048	17126.211	2382.048	69.544	bb		456.9422	91.4	-8.6	149.8
1202028687	4-Nitrotoluene	137 > 46	22.46	1220.961	17126.211	1220.961	35.646	bb		465.0412	93.0	-7.0	75.7
1202028687	3-Nitrotoluene	137 > 46	24.11	1348.323	17126.211	1348.323	39.364	bb		439.8785	88.0	-12.0	76.9
1202028687	PETN	361 > 62	24.44	29924.844	17126.211	29924.844	873.656	bb		527.4508	105.5	5.5	7617.5

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888(245795001MS)

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028687

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170017.wiff

Date Analyzed: 17-FEB-10 13:37

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5950	
59229-75-3	2,6-Diamino-4-nitrotoluene	5680	
618-87-1	3,5-Dinitroaniline	4800	
6629-29-4	2,4-Diamino-6-nitrotoluene	5340	
78-30-8	tris(o-cresyl) phosphate	4930	

*Concentration =

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

Before Jan 21/19/10

Sample Name: "1202026537" Sample ID: "94708921" File: "EX502170017.wif"

Peak Name: "TAIB" Mass(es): "257.2204.9 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Calculated Conc: 595 ng/mL

Acq. Date: 2/17/2010

Acq. Time: 1:37:32 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

AV Window: 30.0 sec

Expected RT: 7.03 min

Use Relative RT: No

Int. Type: Valley

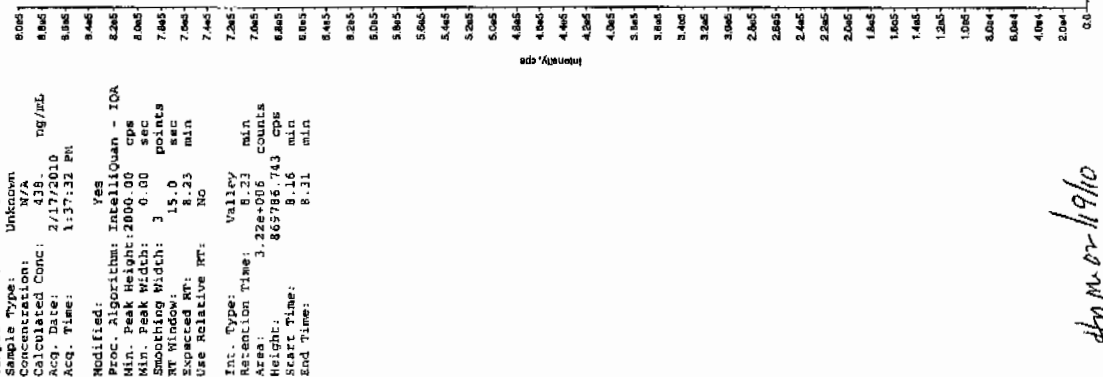
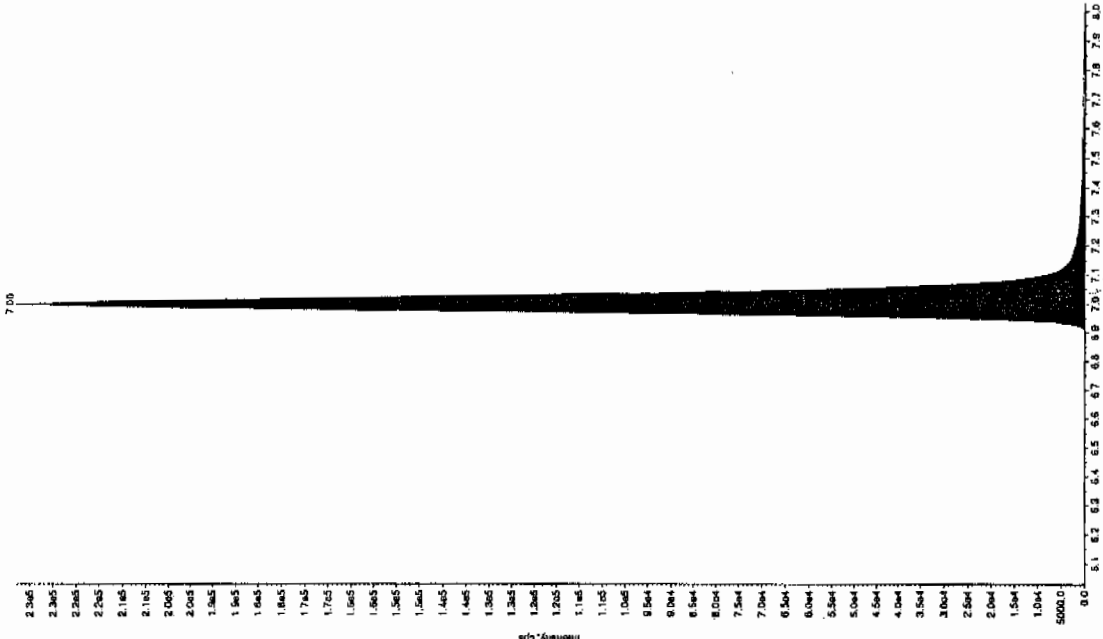
Retention Time: 7.00 min

Area: 1.01e+006 counts

Height: 231425.720 cps

Start Time: 6.37 min

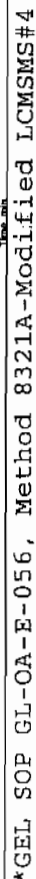
End Time: 7.57 min

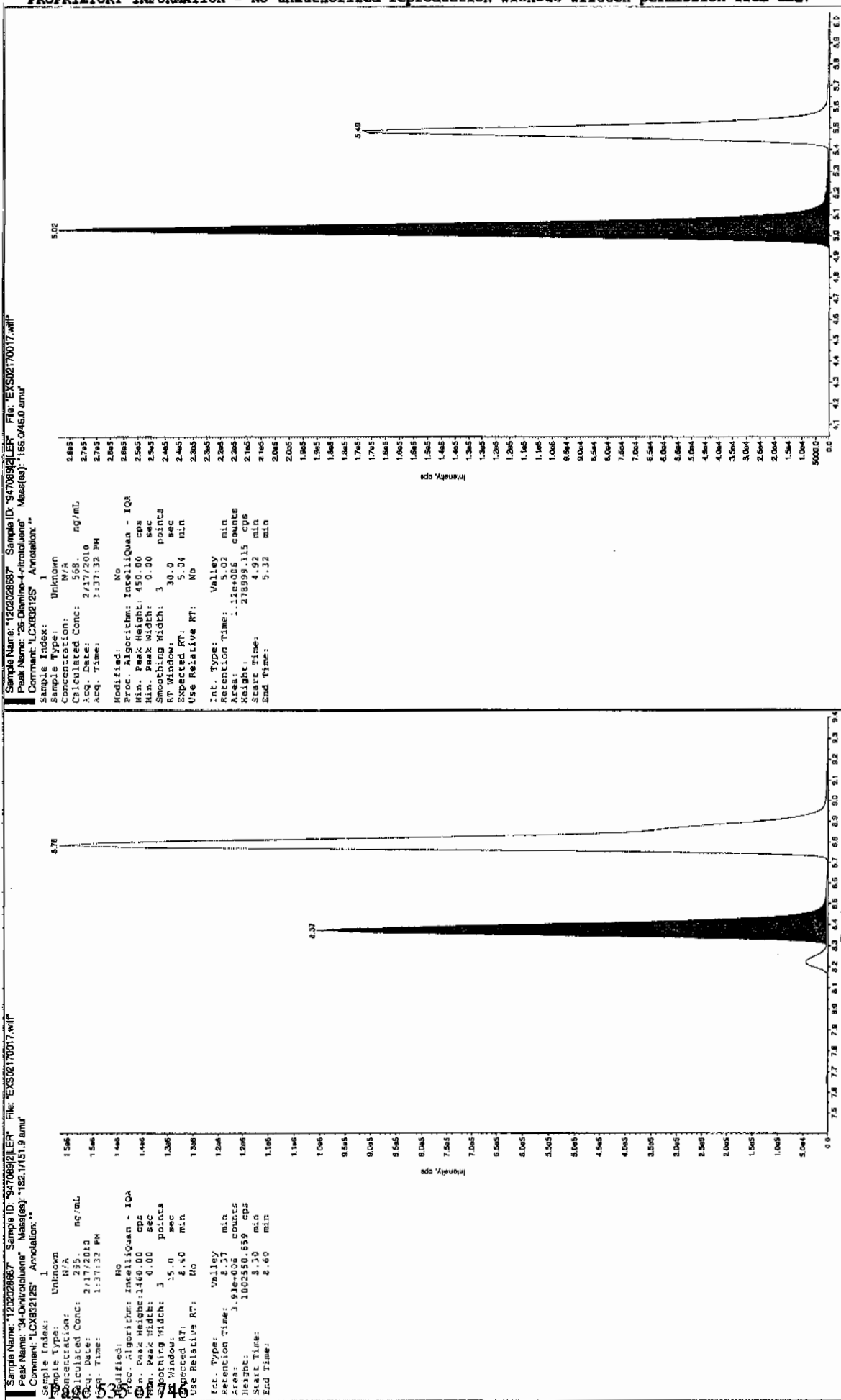


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

4/11/2010

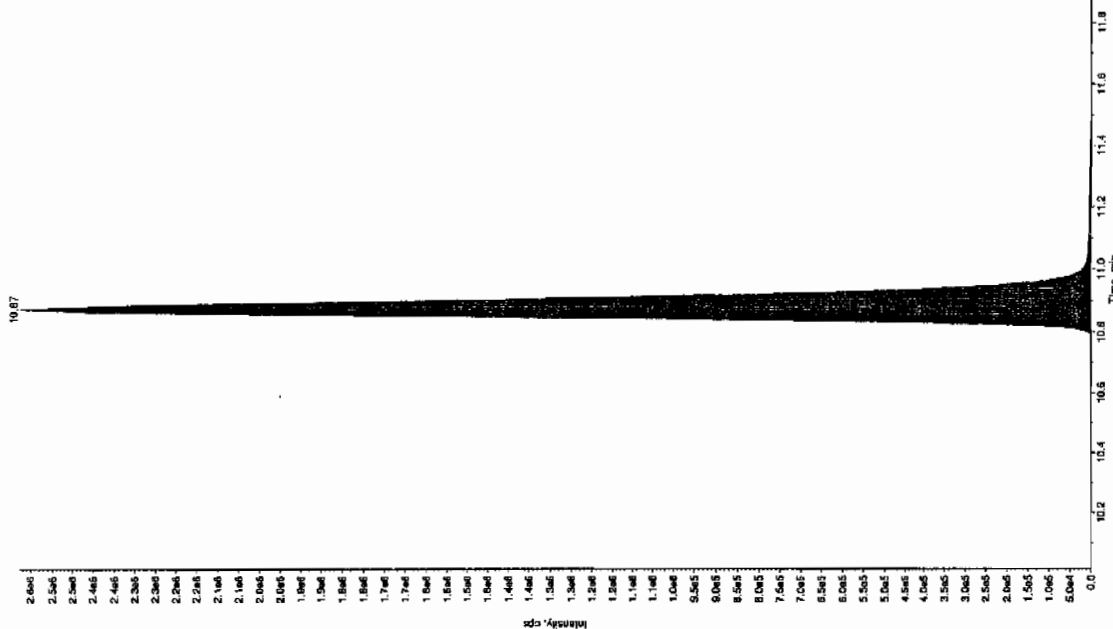
after Jan 21/9/10





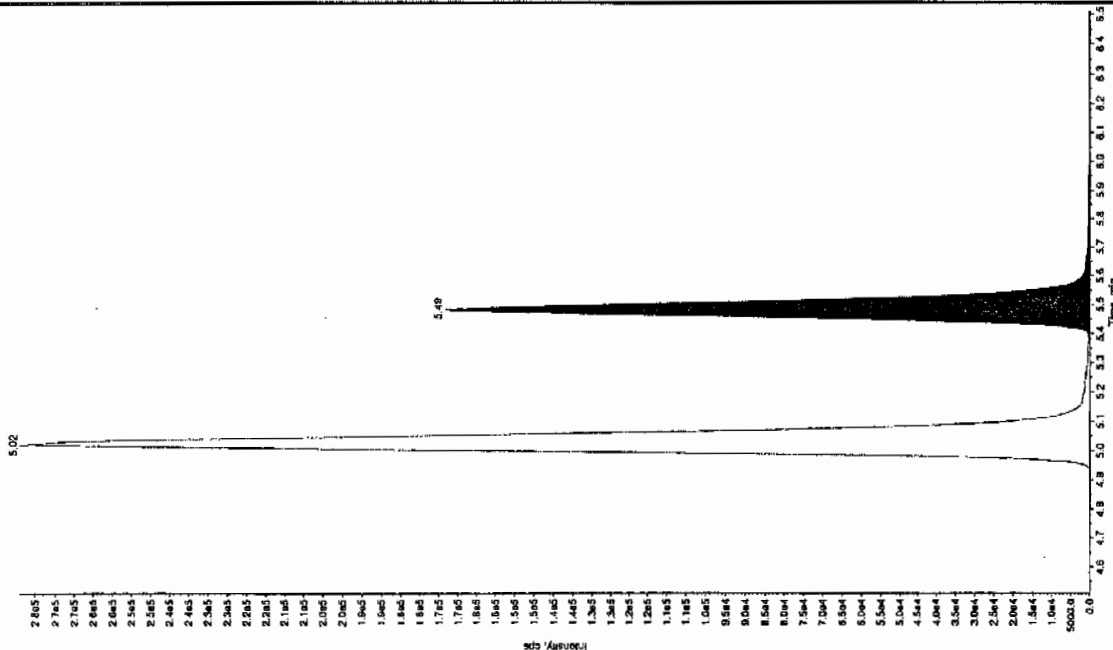
Sample Name: "120002657" Sample ID: "947069/2LEF" File: "EX802170017.wif"
 Peak Name: "166.046.0 amu" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 493.
 Acq. Date: 2/7/2010
 Acq. Time: 1:37:32 PM
 Modified: No
 Proc. Algorithm: TotalIonQuan - IQA
 Min. Peak Height: 8000 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
 Inc. Type: Valley
 Retention Time: 10.9 min
 Area: 1.07e+007 counts
 Height: 2571228.454 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "120002657" Sample ID: "947069/2LEF" File: "EX802170017.wif"
 Peak Name: "24-Diamino-6-nitroketone" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 534.
 Acq. Date: 2/7/2010
 Acq. Time: 1:37:32 PM
 Modified: No
 Proc. Algorithm: TotalIonQuan - IQA
 Min. Peak Height: 359.00 cps
 Min. Peak Width: 0.20 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.51 min
 Use Relative RT: No
 Inc. Type: Valley
 Retention Time: 5.49 min
 Area: 6.60e+005 counts
 Height: 188105.740 cps
 Start Time: 5.37 min
 End Time: 5.62 min



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888(245795001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028688

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0216184a

Date Analyzed: 20-FEB-10 11:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	5500	
121-14-2	2,4-Dinitrotoluene	5100	
121-82-4	RDX	4440	
19406-51-0	4-Amino-2,6-dinitrotoluene	5080	
2691-41-0	HMX	4570	
35572-78-2	2-Amino-4,6-dinitrotoluene	5570	
479-45-8	Tetryl	3390	
606-20-2	2,6-Dinitrotoluene	5070	
78-11-5	PETN	4330	
88-72-2	o-Nitrotoluene	4620	
98-95-3	Nitrobenzene	4270	
99-08-1	m-Nitrotoluene	4340	
99-35-4	1,3,5-Trinitrobenzene	4680	
99-65-0	m-Dinitrobenzene	4790	
99-99-0	p-Nitrotoluene	4690	

*Concentration =

Instrument X Concentrated Extract Volume X Dilution
Value Sample Amount Factor

Printed: Sun Feb 21 12:01:24 2010, Page 9 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0216184a

Date: 20-Feb-2010

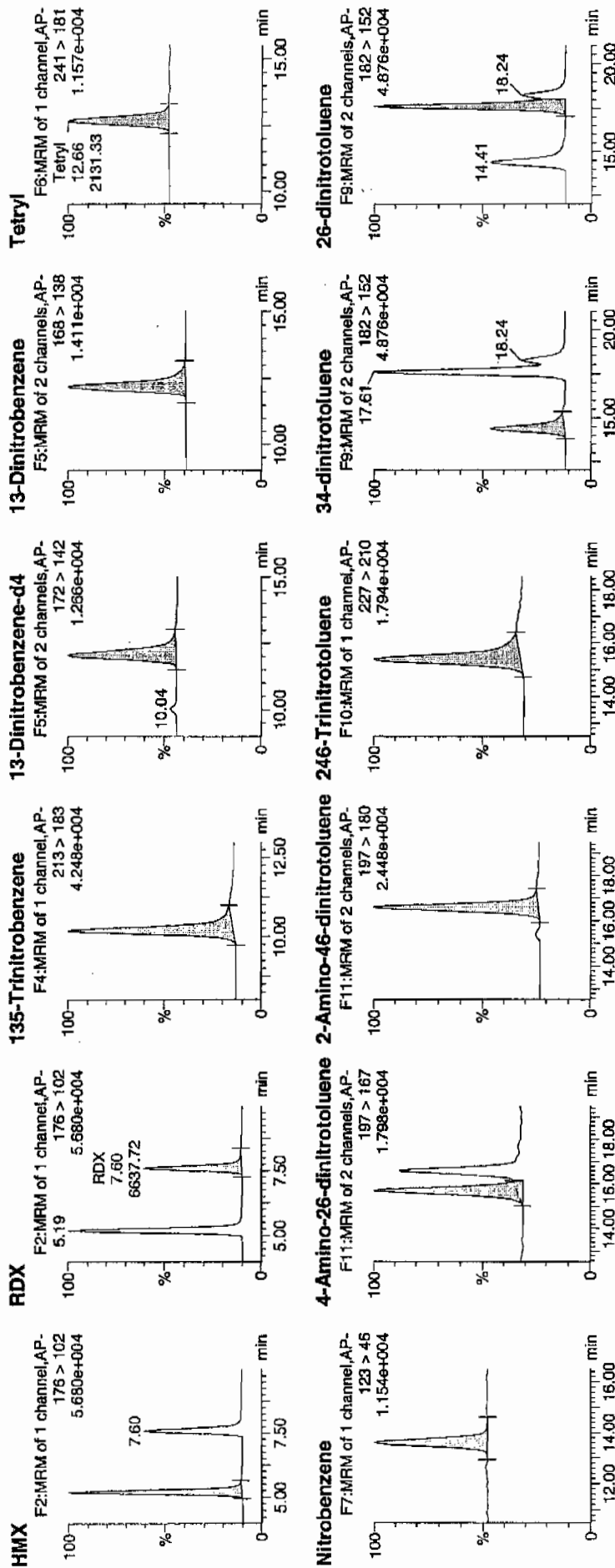
Time: 11:54:58

ID: 1202028688

Vial: 4:3,E

Handwritten: 2/21/10
245795001 MSB / 21
CANE 947089 / 5033

Page 538 of 746

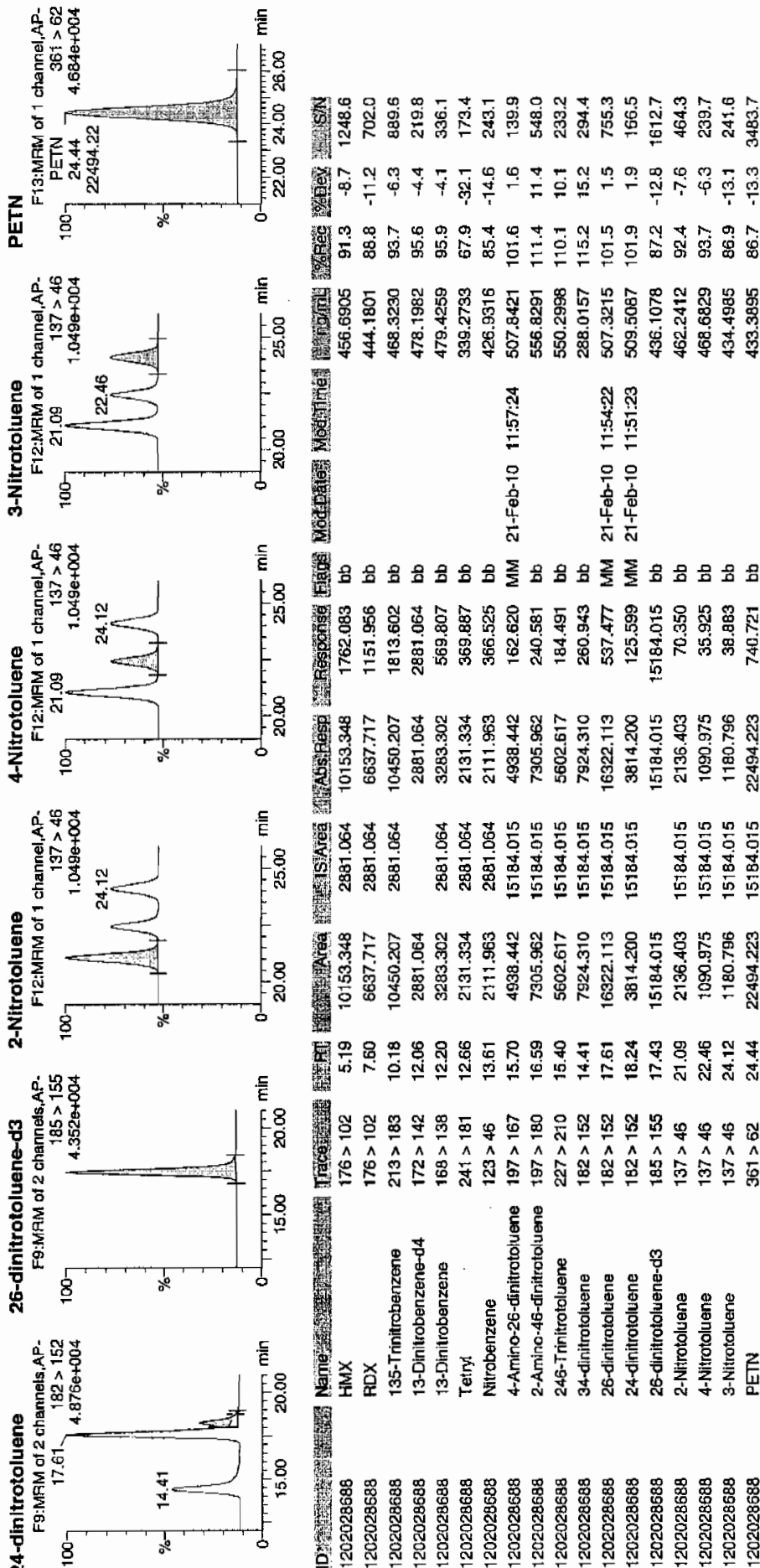


Handwritten: Anne 2/21/10

Printed: Sun Feb 21 12:01:24 2010, Page 10 of 105

Quantify Sample Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\021610expA4.qld, Time: Sun Feb 21 12:00:43 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-7888(245795001MSD)

Lab Code: GEL

GEL Job No (SDG) 10-1470

Matrix: SOIL

GEL Sample ID: 1202028688

Sample Amount 2

Moisture: 9.3

Amount Units g

Date Received: 29-JAN-10

Extraction Type Sonication

Extraction Batch ID: 947088

Concentrated Extract Volume (mL) 10

Date Extracted: 08-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS02170018.wiff

Date Analyzed: 17-FEB-10 13:53

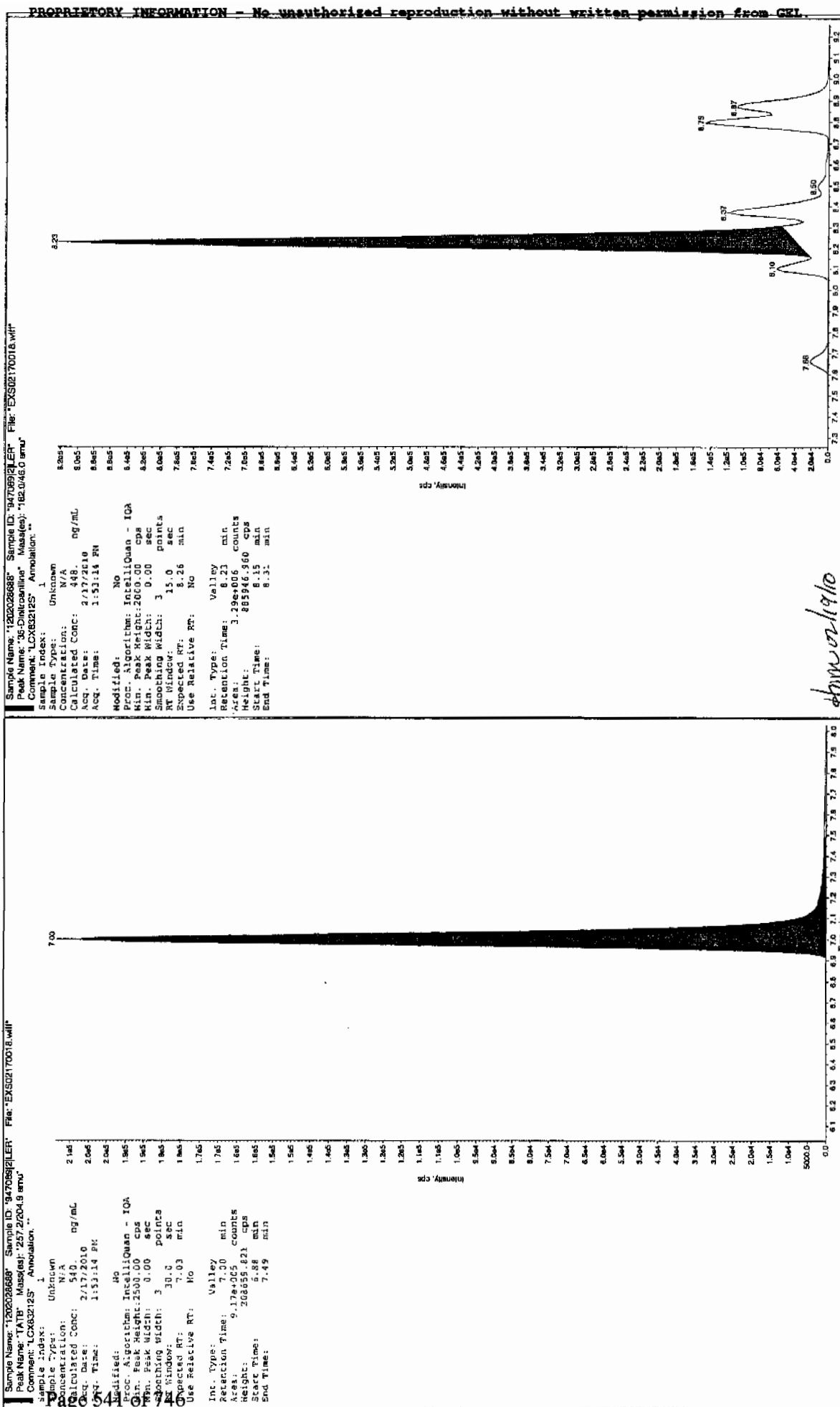
Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	5400	
59229-75-3	2,6-Diamino-4-nitrotoluene	5360	
618-87-1	3,5-Dinitroaniline	4990	
6629-29-4	2,4-Diamino-6-nitrotoluene	5270	
78-30-8	tris(o-cresyl) phosphate	4970	

*Concentration =

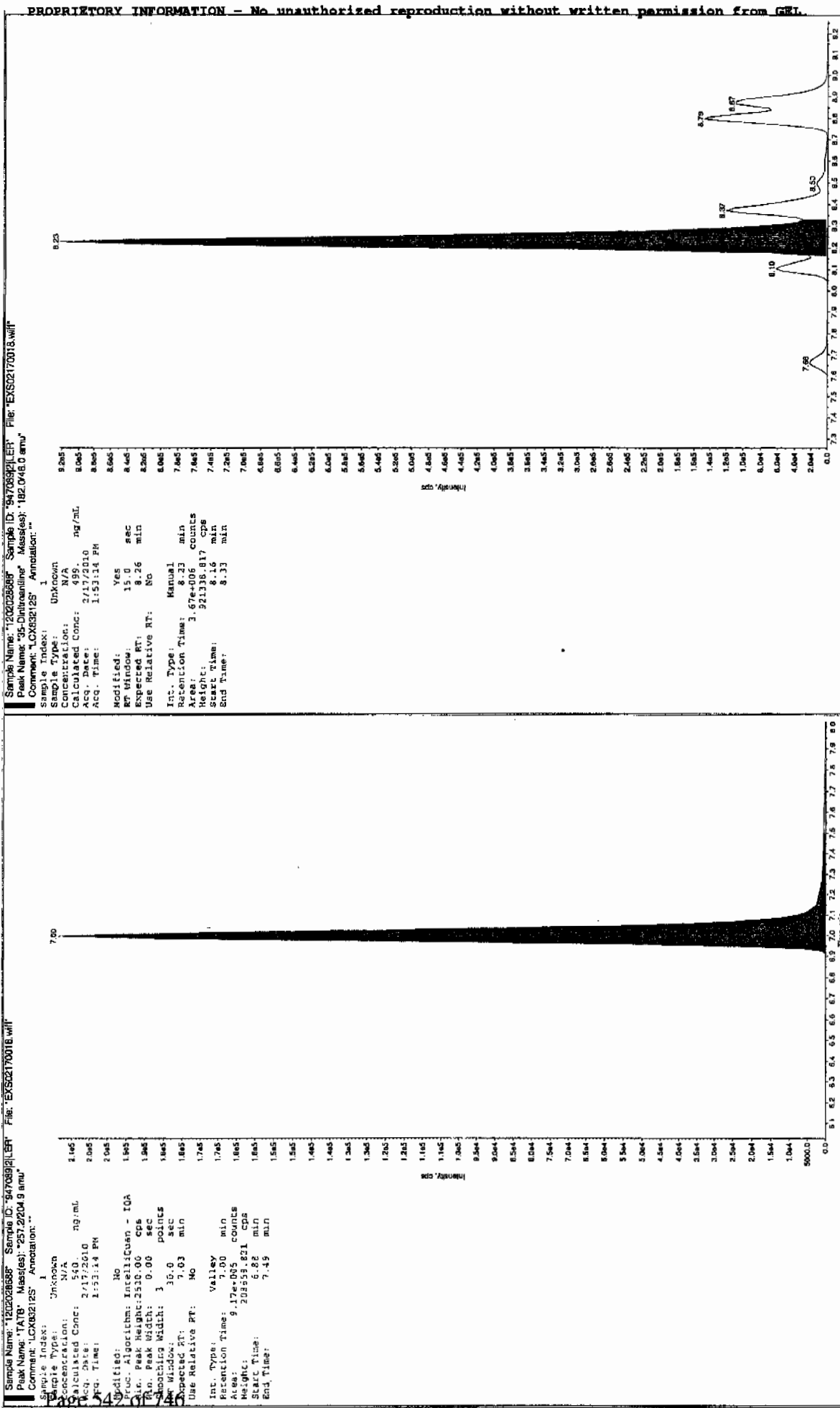
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Before Scan 2/19/10



After Scan 2/19/10

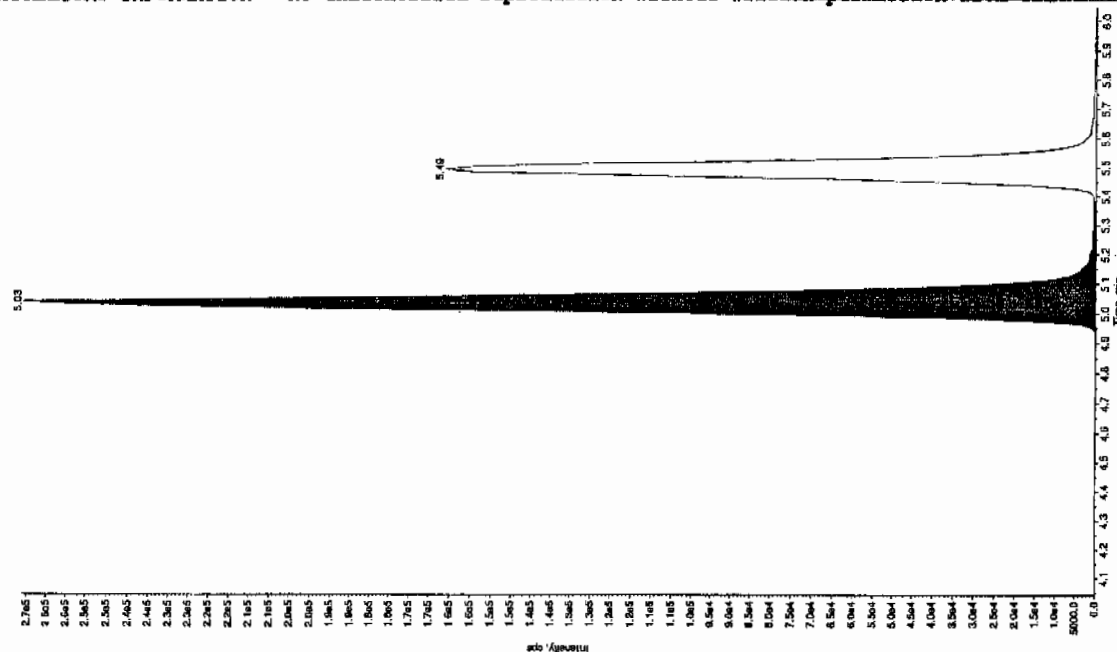
after Jan 21/10



*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

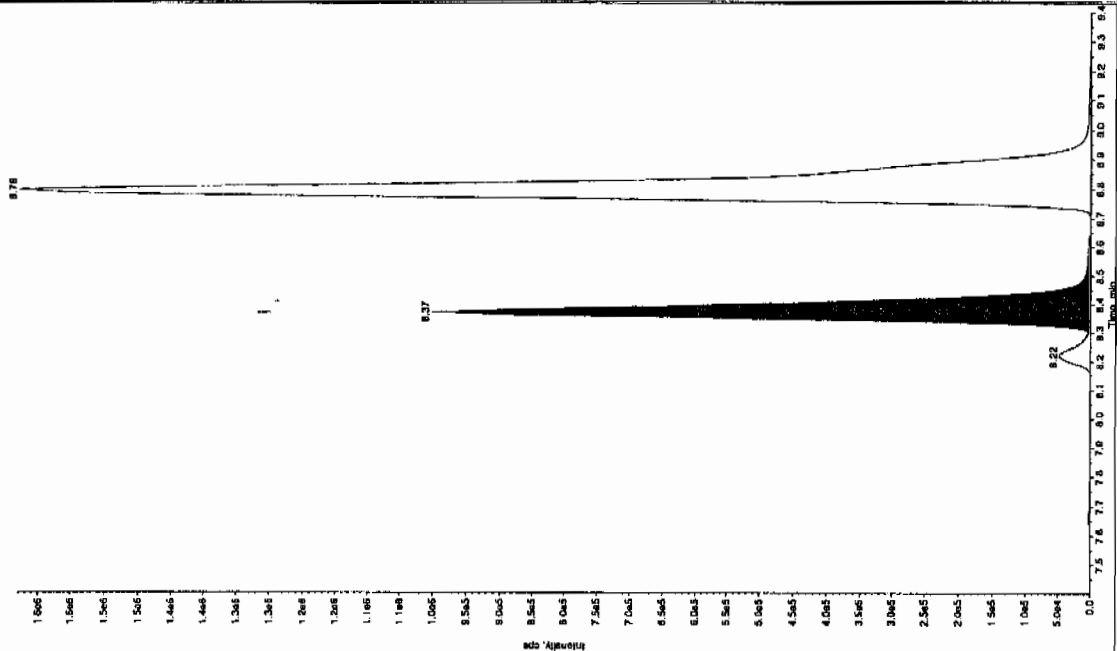
Sample Name: "1202028588" Sample ID: "94708931LH" File: "EX502170018.wif"
 Peak Name: "25-Dinitro-4-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 535.1 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:53:14 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: 5.03 min
 Area: 1.06e+06 counts
 Height: 265939.972 cps
 Start Time: 4.99 min
 End Time: 5.33 min



Sample Name: "1202028588" Sample ID: "94708931LH" File: "EX502170018.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 2717.2010 ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:53:14 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: 35.0 sec
 Expected RT: 8.40 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.37 min
 Area: 3.62e+06 counts
 Height: 988926.331 cps
 Start Time: 8.30 min
 End Time: 8.58 min

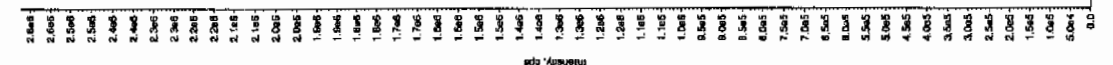


Sample Name: "1202028898" Sample ID: "94706921ER" File: "EXS02170018.wif"

Peak Name: "1,3-bis(4-cresyl) phosphazene" Mass(es): "389.191.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 497. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:53:14 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 10.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.08e+007 counts
 Height: 2523266.113 cps
 Start Time: 10.8 min
 End Time: 11.2 min

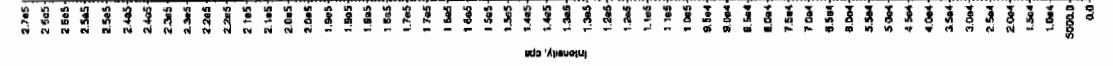


Sample Name: "1202028898" Sample ID: "94706921ER" File: "EXS02170018.wif"

Peak Name: "24-Diamino-5-nitrothiophene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 527. ng/mL
 Acq. Date: 2/17/2010
 Acq. Time: 1:53:14 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: 5.51 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.49 min
 Area: 6.51e+005 counts
 Height: 160845.413 cps
 Start Time: 5.36 min
 End Time: 5.79 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: 947088 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)
1202028685 MB	08-FEB-2010 17:07:00	2	10	5
1202028686 LCS	08-FEB-2010 17:07:00	2	10	5
245795001	08-FEB-2010 17:07:00	2	10	5
1202028687 MS (245795001)	08-FEB-2010 17:07:00	2	10	5
1202028688 MSD (245795001)	08-FEB-2010 17:07:00	2	10	5
245795002	08-FEB-2010 17:07:00	2	10	5
245795003	08-FEB-2010 17:07:00	2	10	5
245795004	08-FEB-2010 17:07:00	2	10	5
245795005	08-FEB-2010 17:07:00	2	10	5
245795006	08-FEB-2010 17:07:00	2	10	5
245795007	08-FEB-2010 17:07:00	2	10	5
245795008	08-FEB-2010 17:07:00	2	10	5
245795009	08-FEB-2010 17:07:00	2	10	5
245795010	08-FEB-2010 17:07:00	2	10	5
245795011	08-FEB-2010 17:07:00	2	10	5
245795012	08-FEB-2010 17:07:00	2	10	5
245795013	08-FEB-2010 17:07:00	2	10	5
245795014	08-FEB-2010 17:07:00	2	10	5
245795015	08-FEB-2010 17:07:00	2	10	5
245795016	08-FEB-2010 17:07:00	2	10	5
245795017	08-FEB-2010 17:07:00	2	10	5
245795018	08-FEB-2010 17:07:00	2	10	5
245795019	08-FEB-2010 17:07:00	2	10	5

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202028686	8321 Explosives LCS	IXX100125-03	.1	mL	Final Solvent: ACN
LCS	1202028686	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL	
MS	1202028687	8321 Explosives LCS	IXX100125-03	.1	mL	
MS	1202028687	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL	
MSD	1202028688	8321 Explosives LCS	IXX100125-03	.1	mL	
MSD	1202028688	8321 LANL Explosives Mix 10mg/L	UXX100122-01.2	1	mL	
SURR	All	3,4-Dinitrotoluene (8330 Sur.) 100ppm	IXP100204-02	.05	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 02/16/10
 Extr. Injection Volume: 50µL
 Sequence Number: 021610expA
 Initial Calibration Date: 02/16/10
 Method: SW846 8321 A-Modified
 Int. Std.: UXX100128-01.3
 Mobile Phase Lot#: 1269631, 1263794
 Standard-Samp Reagent Lot#: 1260901, 1261217
 Reviewed BY: *John*
 Date: *02/22/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100216-07,
 WXX100219-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0216001a	XIBLK01	MAP	2/16/10 17:07			1		USE	B
EXP0216002a	XIBLK01	MAP	2/16/10 17:37			1		USE	B
EXP0216003a	WXXICAL-01	MAP	2/16/10 18:07			1		USE	I
EXP0216004a	WXXICAL-02	MAP	2/16/10 18:36			1		USE	I
EXP0216005a	WXXICAL-03	MAP	2/16/10 19:06			1		USE	I
EXP0216006a	WXXICAL-04	MAP	2/16/10 19:35			1		USE	I
EXP0216007a	WXXICAL-05	MAP	2/16/10 20:05			1		USE	I
EXP0216008a	WXXICAL-06	MAP	2/16/10 20:35			1		USE	I
EXP0216009a	XIBLK02	MAP	2/16/10 21:04			1		USE	B
EXP0216010a	WXXICV	MAP	2/16/10 21:34			1		USE	C
EXP0216011a	XIBLK03	MAP	2/16/10 22:04			1		USE	B
EXP0216012a	WXXCRI	MAP	2/16/10 22:33			1		USE	C
EXP0216013a	1202038759	MAP	2/16/10 23:03	951342	Various	2	LANL	USE	S
EXP0216014a	1202038760	MAP	2/16/10 23:33	951342	Various	2	LANL	USE	S
EXP0216015a	246569007	MAP	2/17/10 0:02	951342	10-1669	2	LANL	USE	S
EXP0216016a	1202038761	MAP	2/17/10 0:32	951342	10-1669	2	LANL	USE	S
EXP0216017a	1202038762	MAP	2/17/10 1:02	951342	10-1669	2	LANL	USE	S
EXP0216018a	246572005	MAP	2/17/10 1:32	951342	10-1678	2	LANL	USE	S
EXP0216019a	246580002	MAP	2/17/10 2:01	951342	10-1683	2	LANL	USE	S
EXP0216020a	246580003	MAP	2/17/10 2:31	951342	10-1683	2	LANL	USE	S
EXP0216021a	WXXCCV	MAP	2/17/10 3:00			1		USE	C
EXP0216022a	XIBLK04	MAP	2/17/10 3:30			1		USE	B
EXP0216023a	WXXCRI	MAP	2/17/10 3:59			1		USE	C
EXP0216024a	246595004	MAP	2/17/10 4:29	951342	10-1694	2	LANL	USE	S
EXP0216025a	1202038763	MAP	2/17/10 4:58	951342	10-1694	2	LANL	USE	S
EXP0216026a	1202038764	MAP	2/17/10 5:28	951342	10-1694	2	LANL	USE	S
EXP0216027a	WXXCCV	MAP	2/17/10 5:58			1		USE	C
EXP0216028a	XIBLK05	MAP	2/17/10 6:28			1		USE	B
EXP0216029a	WXXCRI	MAP	2/17/10 6:57			1		USE	C
EXP0216030a	1202030577	MAP	2/17/10 7:27	947919	Various	2	LANL	USE	S
EXP0216031a	1202030578	MAP	2/17/10 7:57	947919	Various	2	LANL	USE	S

EXP0216032a	245908001	MAP	2/17/10 8:27	947919	10-1486	2	LANL	USE	S
EXP0216033a	1202030579	MAP	2/17/10 8:56	947919	10-1486	2	LANL	USE	S
EXP0216034a	1202030580	MAP	2/17/10 9:26	947919	10-1486	2	LANL	USE	S
EXP0216035a	245908002	MAP	2/17/10 9:56	947919	10-1486	2	LANL	USE	S
EXP0216036a	245908005	MAP	2/17/10 10:25	947919	10-1486	2	LANL	USE	S
EXP0216037a	245908006	MAP	2/17/10 10:55	947919	10-1486	2	LANL	USE	S
EXP0216038a	245912003	MAP	2/17/10 11:25	947919	10-1488	2	LANL	USE	S
EXP0216039a	WXXCCV	MAP	2/17/10 11:55			1		USE	C
EXP0216040a	XIBLK06	MAP	2/17/10 12:24			1		USE	B
EXP0216041a	WXXCRI	MAP	2/17/10 12:54			1		USE	C
EXP0216042a	1202038769	MAP	2/17/10 13:23	951349	Various	2	LANL	USE	S
EXP0216043a	1202038770	MAP	2/17/10 13:53	951349	Various	2	LANL	USE	S
EXP0216044a	246554001	MAP	2/17/10 14:23	951349	10-1665	2	LANL	USE	S
EXP0216045a	1202038771	MAP	2/17/10 14:52	951349	10-1665	2	LANL	USE	S
EXP0216046a	1202038772	MAP	2/17/10 15:22	951349	10-1665	2	LANL	USE	S
EXP0216047a	246554002	MAP	2/17/10 15:52	951349	10-1665	2	LANL	USE	S
EXP0216048a	246554003	MAP	2/17/10 16:21	951349	10-1665	2	LANL	USE	S
EXP0216049a	246554004	MAP	2/17/10 16:51	951349	10-1665	2	LANL	USE	S
EXP0216050a	246554005	MAP	2/17/10 17:20	951349	10-1665	2	LANL	USE	S
EXP0216051a	246554006	MAP	2/17/10 17:50	951349	10-1665	2	LANL	USE	S
EXP0216052a	WXXCCV	MAP	2/17/10 18:20			1		USE	C
EXP0216053a	XIBLK07	MAP	2/17/10 18:50			1		USE	B
EXP0216054a	WXXCRI	MAP	2/17/10 19:19			1		USE	C
EXP0216055a	246557001	MAP	2/17/10 19:49	951349	10-1666	2	LANL	USE	S
EXP0216056a	246562001	MAP	2/17/10 20:19	951349	10-1668	2	LANL	USE	S
EXP0216057a	246575003	MAP	2/17/10 20:49	951349	10-1675	2	LANL	USE	S
EXP0216058a	246575004	MAP	2/17/10 21:18	951349	10-1675	2	LANL	USE	S
EXP0216059a	246582002	MAP	2/17/10 21:48	951349	10-1685	2	LANL	USE	S
EXP0216060a	246582003	MAP	2/17/10 22:17	951349	10-1685	2	LANL	USE	S
EXP0216061a	246582004	MAP	2/17/10 22:47	951349	10-1685	2	LANL	USE	S
EXP0216062a	246582005	MAP	2/17/10 23:16	951349	10-1685	2	LANL	USE	S
EXP0216063a	246582006	MAP	2/17/10 23:46	951349	10-1685	2	LANL	USE	S
EXP0216064a	246582007	MAP	2/18/10 0:15	951349	10-1685	2	LANL	USE	S
EXP0216065a	WXXCCV	MAP	2/18/10 0:45			1		USE	C
EXP0216066a	XIBLK08	MAP	2/18/10 1:14			1		USE	B
EXP0216067a	WXXCRI	MAP	2/18/10 1:44			1		USE	C
EXP0216068a	246582008	MAP	2/18/10 2:14	951349	10-1685	2	LANL	USE	S
EXP0216069a	XIBLK09	MAP	2/18/10 2:43			1		USE	B
EXP0216070a	1202032097	MAP	2/18/10 3:13	948572	Various	2	LANL	DUSE	S

EXP0216071a	1202032098	MAP	2/18/10 3:43	948572	Various	2	LANL	DUSE	S
EXP0216072a	245955001	MAP	2/18/10 4:12	948572	10-1509	2	LANL	DUSE	S
EXP0216073a	245955002	MAP	2/18/10 4:42	948572	10-1509	2	LANL	DUSE	S
EXP0216074a	245959001	MAP	2/18/10 5:12	948572	10-1510	2	LANL	DUSE	S
EXP0216075a	1202032099	MAP	2/18/10 5:42	948572	10-1510	2	LANL	DUSE	S
EXP0216076a	1202032100	MAP	2/18/10 6:11	948572	10-1510	2	LANL	DUSE	S
EXP0216077a	245959002	MAP	2/18/10 6:41	948572	10-1510	2	LANL	DUSE	S
EXP0216078a	WXCCV	MAP	2/18/10 7:10			1		USE	C
EXP0216079a	XIBLK10	MAP	2/18/10 7:40			1		USE	B
EXP0216080a	WXXCRI	MAP	2/18/10 8:10			1		USE	C
EXP0216081a	1202032097	MAP	2/18/10 8:39	948572	Various	2	LANL	USE	S
EXP0216082a	1202032098	MAP	2/18/10 9:09	948572	Various	2	LANL	USE	S
EXP0216083a	245955001	MAP	2/18/10 9:38	948572	10-1509	2	LANL	USE	S
EXP0216084a	245955002	MAP	2/18/10 10:08	948572	10-1509	2	LANL	USE	S
EXP0216085a	245959001	MAP	2/18/10 10:37	948572	10-1510	2	LANL	USE	S
EXP0216086a	1202032099	MAP	2/18/10 11:07	948572	10-1510	2	LANL	USE	S
EXP0216087a	1202032100	MAP	2/18/10 11:36	948572	10-1510	2	LANL	USE	S
EXP0216088a	245959002	MAP	2/18/10 12:06	948572	10-1510	2	LANL	USE	S
EXP0216089a	WXCCV	MAP	2/18/10 12:36			1		USE	C
EXP0216090a	XIBLK11	MAP	2/18/10 13:05			1		USE	B
EXP0216091a	WXXCRI	MAP	2/18/10 13:35			1		USE	C
EXP0216092a	245959003	MAP	2/18/10 14:04	948572	10-1510	2	LANL	USE	S
EXP0216093a	245959004	MAP	2/18/10 14:34	948572	10-1510	2	LANL	USE	S
EXP0216094a	245959005	MAP	2/18/10 15:03	948572	10-1510	2	LANL	USE	S
EXP0216095a	245959006	MAP	2/18/10 15:33	948572	10-1510	2	LANL	USE	S
EXP0216096a	245959007	MAP	2/18/10 16:03	948572	10-1510	2	LANL	USE	S
EXP0216097a	245959008	MAP	2/18/10 16:32	948572	10-1510	2	LANL	USE	S
EXP0216098a	245959009	MAP	2/18/10 17:02	948572	10-1510	2	LANL	USE	S
EXP0216099a	245959010	MAP	2/18/10 17:32	948572	10-1510	2	LANL	USE	S
EXP0216100a	245959012	MAP	2/18/10 18:01	948572	10-1510	2	LANL	USE	S
EXP0216101a	WXCCV	MAP	2/18/10 18:31			1		USE	C
EXP0216102a	XIBLK12	MAP	2/18/10 19:00			1		USE	B
EXP0216103a	WXXCRI	MAP	2/18/10 19:30			1		USE	C
EXP0216104a	1202032589	MAP	2/18/10 19:59	944915	Various	2	LANL	USE	S
EXP0216105a	1202032590	MAP	2/18/10 20:29	944915	Various	2	LANL	USE	S
EXP0216106a	245377001	MAP	2/18/10 20:58	944915	10-1378	2	LANL	USE	S
EXP0216107a	245377002	MAP	2/18/10 21:28	944915	10-1378	2	LANL	USE	S
EXP0216108a	245377003	MAP	2/18/10 21:57	944915	10-1378	2	LANL	USE	S
EXP0216109a	245377004	MAP	2/18/10 22:27	944915	10-1378	2	LANL	USE	S

EXP0216110a	245377005	MAP	2/18/10 22:56	944915	10-1378	2	LANL	USE	S
EXP0216111a	245377006	MAP	2/18/10 23:26	944915	10-1378	2	LANL	USE	S
EXP0216112a	245377007	MAP	2/18/10 23:56	944915	10-1378	2	LANL	USE	S
EXP0216113a	245377008	MAP	2/19/10 0:25	944915	10-1378	2	LANL	USE	S
EXP0216114a	WXXCCV	MAP	2/19/10 0:55			1		USE	C
EXP0216115a	XIBLK13	MAP	2/19/10 1:24			1		USE	B
EXP0216116a	WXXCRI	MAP	2/19/10 1:54			1		USE	C
EXP0216117a	245377009	MAP	2/19/10 2:23	944915	10-1378	2	LANL	USE	S
EXP0216118a	245377010	MAP	2/19/10 2:53	944915	10-1378	2	LANL	USE	S
EXP0216119a	245396001	MAP	2/19/10 3:23	944915	10-1394	2	LANL	USE	S
EXP0216120a	1202023591	MAP	2/19/10 3:52	944915	10-1394	2	LANL	USE	S
EXP0216121a	1202023592	MAP	2/19/10 4:22	944915	10-1394	2	LANL	USE	S
EXP0216122a	245396002	MAP	2/19/10 4:52	944915	10-1394	2	LANL	USE	S
EXP0216123a	245396003	MAP	2/19/10 5:22	944915	10-1394	2	LANL	USE	S
EXP0216124a	245396004	MAP	2/19/10 5:51	944915	10-1394	2	LANL	USE	S
EXP0216125a	247033002	MAP	2/19/10 6:21	944915	10-1394	2	LANL	USE	S
EXP0216126a	WXXCCV	MAP	2/19/10 6:51		10-1821	1		USE	C
EXP0216127a	XIBLK14	MAP	2/19/10 7:21			1		USE	B
EXP0216128a	WXXCRI	MAP	2/19/10 7:51			1		USE	C
EXP0216129a	1202032113	MAP	2/19/10 8:20			2		USE	S
EXP0216130a	1202032114	MAP	2/19/10 8:51	948579	Various	2	LANL	USE	S
EXP0216131a	245994001	MAP	2/19/10 9:20	948579	Various	2	LANL	USE	S
EXP0216132a	245994002	MAP	2/19/10 9:50	948579	10-1516	2	LANL	USE	S
EXP0216133a	245994003	MAP	2/19/10 10:19	948579	10-1516	2	LANL	USE	S
EXP0216134a	245994004	MAP	2/19/10 10:49	948579	10-1516	2	LANL	USE	S
EXP0216135a	245994005	MAP	2/19/10 11:18	948579	10-1516	2	LANL	USE	S
EXP0216136a	245994006	MAP	2/19/10 11:48	948579	10-1516	2	LANL	USE	S
EXP0216137a	245994007	MAP	2/19/10 12:18	948579	10-1516	2	LANL	USE	S
EXP0216138a	245994008	MAP	2/19/10 12:47	948579	10-1516	2	LANL	USE	S
EXP0216139a	WXXCCV	MAP	2/19/10 13:16			1		USE	C
EXP0216140a	XIBLK15	MAP	2/19/10 13:46			1		USE	B
EXP0216141a	WXXCRI	MAP	2/19/10 14:38			1		USE	C
EXP0216142a	245994009	MAP	2/19/10 15:08	948579	10-1516	2	LANL	USE	S
EXP0216143a	246006001	MAP	2/19/10 15:37	948579	10-1520	500	LANL	DUSE	S
EXP0216144a	246006001	MAP	2/19/10 16:07	948579	10-1520	2	LANL	USE	S
EXP0216145a	1202032115	MAP	2/19/10 16:37	948579	10-1520	2	LANL	USE	S
EXP0216146a	1202032116	MAP	2/19/10 17:07	948579	10-1520	2	LANL	USE	S
EXP0216147a	246006002	MAP	2/19/10 17:36	948579	10-1520	2	LANL	USE	S
EXP0216148a	246006003	MAP	2/19/10 18:06	948579	10-1520	2	LANL	USE	S

EXP0216149a	246006004	MAP	2/19/10 18:35	948579	10-1520	2	LANL	USE	S
EXP0216150a	246006005	MAP	2/19/10 19:05	948579	10-1520	2	LANL	USE	S
EXP0216151a	246006006	MAP	2/19/10 19:35	948579	10-1520	2	LANL	USE	S
EXP0216152a	WXXCCV	MAP	2/19/10 20:04			1		USE	C
EXP0216153a	XIBLK16	MAP	2/19/10 20:34			1		USE	B
EXP0216154a	WXXCRI	MAP	2/19/10 21:04			1		USE	C
EXP0216155a	246006007	MAP	2/19/10 21:34	948579	10-1520	2	LANL	USE	S
EXP0216156a	246006008	MAP	2/19/10 22:04	948579	10-1520	2	LANL	USE	S
EXP0216157a	246006009	MAP	2/19/10 22:34	948579	10-1520	2	LANL	USE	S
EXP0216158a	XIBLK17	MAP	2/19/10 23:03			1		USE	B
EXP0216159a	1202040417	MAP	2/19/10 23:33	952030	Various	2	LANL	USE	S
EXP0216160a	1202040418	MAP	2/20/10 0:03	952030	Various	2	LANL	USE	S
EXP0216161a	246707005	MAP	2/20/10 0:32	952030	10-1726	2	LANL	USE	S
EXP0216162a	1202040419	MAP	2/20/10 1:02	952030	10-1726	2	LANL	USE	S
EXP0216163a	1202040420	MAP	2/20/10 1:31	952030	10-1726	2	LANL	USE	S
EXP0216164a	246764004	MAP	2/20/10 2:01	952030	10-1721	2	LANL	USE	S
EXP0216165a	WXXCCV	MAP	2/20/10 2:30			1		USE	C
EXP0216166a	XIBLK18	MAP	2/20/10 3:00			1		USE	B
EXP0216167a	WXXCRI	MAP	2/20/10 3:30			1		USE	C
EXP0216168a	1202028657	MAP	2/20/10 3:59	947074	Various	2	LANL	USE	S
EXP0216169a	1202028658	MAP	2/20/10 4:29	947074	Various	2	LANL	USE	S
EXP0216170a	245789005	MAP	2/20/10 4:59	947074	10-1466	2	LANL	USE	S
EXP0216171a	245789009	MAP	2/20/10 5:28	947074	10-1466	2	LANL	USE	S
EXP0216172a	245789013	MAP	2/20/10 5:58	947074	10-1466	2	LANL	USE	S
EXP0216173a	245789017	MAP	2/20/10 6:28	947074	10-1466	2	LANL	USE	S
EXP0216174a	245809001	MAP	2/20/10 6:57	947074	10-1480	2	LANL	USE	S
EXP0216175a	1202028659	MAP	2/20/10 7:27	947074	10-1480	2	LANL	USE	S
EXP0216176a	1202028660	MAP	2/20/10 7:57	947074	10-1480	2	LANL	USE	S
EXP0216177a	WXXCCV	MAP	2/20/10 8:26			1		USE	C
EXP0216178a	XIBLK19	MAP	2/20/10 8:56			1		USE	B
EXP0216179a	WXXCRI	MAP	2/20/10 9:25			1		USE	C
EXP0216180a	1202028685	MAP	2/20/10 9:55	947089	10-1470	2	LANL	USE	S
EXP0216181a	1202028686	MAP	2/20/10 10:25	947089	10-1470	2	LANL	USE	S
EXP0216182a	245795001	MAP	2/20/10 10:55	947089	10-1470	2	LANL	USE	S
EXP0216183a	1202028687	MAP	2/20/10 11:25	947089	10-1470	2	LANL	USE	S
EXP0216184a	1202028688	MAP	2/20/10 11:54	947089	10-1470	2	LANL	USE	S
EXP0216185a	245795002	MAP	2/20/10 12:24	947089	10-1470	2	LANL	USE	S
EXP0216186a	245795003	MAP	2/20/10 12:54	947089	10-1470	2	LANL	USE	S
EXP0216187a	245795004	MAP	2/20/10 13:23	947089	10-1470	2	LANL	USE	S

EXP0216188a	245795005	MAP	2/20/10 13:53	947089	10-1470	2	LANL	USE	S
EXP0216189a	245795006	MAP	2/20/10 14:23	947089	10-1470	2	LANL	USE	S
EXP0216190a	WXXCCV	MAP	2/20/10 14:52			1		USE	C
EXP0216191a	XIBLK20	MAP	2/20/10 15:22			1		USE	B
EXP0216192a	WXXCRI	MAP	2/20/10 15:52			1		USE	C
EXP0216193a	245795007	MAP	2/20/10 16:21	947089	10-1470	2	LANL	USE	S
EXP0216194a	245795008	MAP	2/20/10 16:51	947089	10-1470	2	LANL	USE	S
EXP0216195a	245795009	MAP	2/20/10 17:20	947089	10-1470	2	LANL	USE	S
EXP0216196a	245795010	MAP	2/20/10 17:50	947089	10-1470	2	LANL	USE	S
EXP0216197a	245795011	MAP	2/20/10 18:19	947089	10-1470	2	LANL	USE	S
EXP0216198a	245795012	MAP	2/20/10 18:49	947089	10-1470	2	LANL	USE	S
EXP0216199a	245795013	MAP	2/20/10 19:19	947089	10-1470	2	LANL	USE	S
EXP0216200a	245795014	MAP	2/20/10 19:48	947089	10-1470	2	LANL	USE	S
EXP0216201a	245795015	MAP	2/20/10 20:18	947089	10-1470	2	LANL	USE	S
EXP0216202a	245795016	MAP	2/20/10 20:48	947089	10-1470	2	LANL	USE	S
EXP0216203a	WXXCCV	MAP	2/20/10 21:17			1		USE	C
EXP0216204a	XIBLK21	MAP	2/20/10 21:47			1		USE	B
EXP0216205a	WXXCRI	MAP	2/20/10 22:16			1		USE	C
EXP0216206a	245795017	MAP	2/20/10 22:46	947089	10-1470	2	LANL	USE	S
EXP0216207a	245795018	MAP	2/20/10 23:15	947089	10-1470	2	LANL	USE	S
EXP0216208a	245795019	MAP	2/20/10 23:45	947089	10-1470	2	LANL	USE	S
EXP0216209a	XIBLK22	MAP	2/21/10 0:15			1		USE	B
EXP0216210a	1202035656	MAP	2/21/10 0:45	950070	Various	2	LANL	USE	S
EXP0216211a	1202035657	MAP	2/21/10 1:14	950070	Various	2	LANL	USE	S
EXP0216212a	246266001	MAP	2/21/10 1:44	950070	10-1547	2	LANL	USE	S
EXP0216213a	1202035658	MAP	2/21/10 2:14	950070	10-1547	2	LANL	USE	S
EXP0216214a	1202035659	MAP	2/21/10 2:44	950070	10-1547	2	LANL	USE	S
EXP0216215a	246266002	MAP	2/21/10 3:14	950070	10-1547	2	LANL	USE	S
EXP0216216a	WXXCCV	MAP	2/21/10 3:43			1		USE	C
EXP0216217a	XIBLK23	MAP	2/21/10 4:13			1		USE	B
EXP0216218a	WXXCRI	MAP	2/21/10 4:43			1		USE	C
EXP0216219a	246266003	MAP	2/21/10 5:12	950070	10-1547	2	LANL	USE	S
EXP0216220a	246266004	MAP	2/21/10 5:42	950070	10-1547	2	LANL	USE	S
EXP0216221a	246266005	MAP	2/21/10 6:12	950070	10-1547	2	LANL	USE	S
EXP0216222a	246266006	MAP	2/21/10 6:42	950070	10-1547	2	LANL	USE	S
EXP0216223a	246273002	MAP	2/21/10 7:11	950070	10-1550	2	LANL	USE	S
EXP0216224a	246273003	MAP	2/21/10 7:41	950070	10-1550	2	LANL	USE	S
EXP0216225a	246273004	MAP	2/21/10 8:10	950070	10-1550	2	LANL	USE	S
EXP0216226a	246273005	MAP	2/21/10 8:40	950070	10-1550	2	LANL	USE	S

EXP0216227a	246273006	MAP	2/21/10 9:10	950070	10-1550	2	LANL	USE	S
EXP0216228a	246273007	MAP	2/21/10 9:39	950070	10-1550	2	LANL	USE	S
EXP0216229a	WXXCCV	MAP	2/21/10 10:09			1		USE	C
EXP0216230a	XIBLK24	MAP	2/21/10 10:39			1		USE	B
EXP0216231a	WXXCRI	MAP	2/21/10 11:09			1		USE	C

INSTRUMENT ID: LCMSMS4

GEL ORGANIC RUN LOG

Method: 8321A-Modified
Int. Std.: N/A
Mobile Phase Lot#: 1263794, 1258141
Standard-Samp Reagent Lot#: 1260901, 1261217

Date: 02/17/10
Extr. Injection Volume: 10uL
Sequence Number: 021710
Initial Calibration Date: 021710

Reviewed By: *hank*
Date: 02/18/10
SOP: GL-OA-E-056 Rev.12
Alt Check Std. ID: WXX100217-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS02170001.wiff	XIBLK01	LER	2/17/2010 9:26			1		USE	B
EXS02170002.wiff	XIBLK01	LER	2/17/2010 9:42			1		USE	B
EXS02170003.wiff	WXXICAL-19	LER	2/17/2010 9:57			1		USE	I
EXS02170004.wiff	WXXICAL-20	LER	2/17/2010 10:13			1		USE	I
EXS02170005.wiff	WXXICAL-21	LER	2/17/2010 10:29			1		USE	I
EXS02170006.wiff	WXXICAL-22	LER	2/17/2010 10:44			1		USE	I
EXS02170007.wiff	WXXICAL-23	LER	2/17/2010 11:00			1		USE	I
EXS02170008.wiff	WXXICAL-24	LER	2/17/2010 11:16			1		USE	I
EXS02170009.wiff	WXXICAL-25	LER	2/17/2010 11:31			1		USE	I
EXS02170010.wiff	XIBLK02	LER	2/17/2010 11:47			1		USE	B
EXS02170011.wiff	WXXICV	LER	2/17/2010 12:03			1		USE	C
EXS02170012.wiff	XIBLK03	LER	2/17/2010 12:19			1		USE	B
EXS02170013.wiff	WXXCRI	LER	2/17/2010 12:34			1		USE	C
EXS02170014.wiff	1202028685	LER	2/17/2010 12:50	947089	10-1470	2	LANL	USE	S
EXS02170015.wiff	1202028686	LER	2/17/2010 13:06	947089	10-1470	2	LANL	USE	S
EXS02170016.wiff	245795001	LER	2/17/2010 13:21	947089	10-1470	2	LANL	USE	S
EXS02170017.wiff	1202028687	LER	2/17/2010 13:37	947089	10-1470	2	LANL	USE	S
EXS02170018.wiff	1202028688	LER	2/17/2010 13:53	947089	10-1470	2	LANL	USE	S
EXS02170019.wiff	245795002	LER	2/17/2010 14:08	947089	10-1470	2	LANL	USE	S
EXS02170020.wiff	245795003	LER	2/17/2010 14:24	947089	10-1470	2	LANL	USE	S
EXS02170021.wiff	245795004	LER	2/17/2010 14:40	947089	10-1470	2	LANL	USE	S
EXS02170022.wiff	245795005	LER	2/17/2010 14:56	947089	10-1470	2	LANL	USE	S
EXS02170023.wiff	245795006	LER	2/17/2010 15:11	947089	10-1470	2	LANL	USE	S
EXS02170024.wiff	WXXCCV	LER	2/17/2010 15:27			1		USE	C
EXS02170025.wiff	XIBLK04	LER	2/17/2010 15:43			1		USE	B
EXS02170026.wiff	WXXCRI	LER	2/17/2010 15:58			1		USE	C
EXS02170027.wiff	245795007	LER	2/17/2010 16:14	947089	10-1470	2	LANL	USE	S
EXS02170028.wiff	245795008	LER	2/17/2010 16:30	947089	10-1470	2	LANL	USE	S
EXS02170029.wiff	245795009	LER	2/17/2010 16:45	947089	10-1470	2	LANL	USE	S
EXS02170030.wiff	245795010	LER	2/17/2010 17:01	947089	10-1470	2	LANL	USE	S

EXS02170031.wiff	245795011	LER	2/17/2010 17:17	947089	10-1470	2	LANL	USE	S
EXS02170032.wiff	245795012	LER	2/17/2010 17:33	947089	10-1470	2	LANL	USE	S
EXS02170033.wiff	245795013	LER	2/17/2010 17:48	947089	10-1470	2	LANL	USE	S
EXS02170034.wiff	245795014	LER	2/17/2010 18:04	947089	10-1470	2	LANL	USE	S
EXS02170035.wiff	245795015	LER	2/17/2010 18:20	947089	10-1470	2	LANL	USE	S
EXS02170036.wiff	245795016	LER	2/17/2010 18:35	947089	10-1470	2	LANL	USE	S
EXS02170037.wiff	WXXCCV	LER	2/17/2010 18:51			1		USE	C
EXS02170038.wiff	XIBLK05	LER	2/17/2010 19:07			1		USE	B
EXS02170039.wiff	WXXCRI	LER	2/17/2010 19:23			1		USE	C
EXS02170040.wiff	245795017	LER	2/17/2010 19:38	947089	10-1470	2	LANL	USE	S
EXS02170041.wiff	245795018	LER	2/17/2010 19:54	947089	10-1470	2	LANL	USE	S
EXS02170042.wiff	245795019	LER	2/17/2010 20:10	947089	10-1470	2	LANL	USE	S
EXS02170043.wiff	WXXCCV	LER	2/17/2010 20:25			1		USE	C
EXS02170044.wiff	XIBLK06	LER	2/17/2010 20:41			1		USE	B
EXS02170045.wiff	WXXCRI	LER	2/17/2010 20:57			1		USE	C
EXS02170046.wiff	1202035656	LER	2/17/2010 21:12	950070	VARIOUS	2	LANL	USE	S
EXS02170047.wiff	1202035657	LER	2/17/2010 21:28	950070	VARIOUS	2	LANL	USE	S
EXS02170048.wiff	246266001	LER	2/17/2010 21:44	950070	10-1547	2	LANL	USE	S
EXS02170049.wiff	1202035658	LER	2/17/2010 22:00	950070	10-1547	2	LANL	USE	S
EXS02170050.wiff	1202035659	LER	2/17/2010 22:15	950070	10-1547	2	LANL	USE	S
EXS02170051.wiff	246266002	LER	2/17/2010 22:31	950070	10-1547	2	LANL	USE	S
EXS02170052.wiff	246266003	LER	2/17/2010 22:47	950070	10-1547	2	LANL	USE	S
EXS02170053.wiff	246266004	LER	2/17/2010 23:02	950070	10-1547	2	LANL	USE	S
EXS02170054.wiff	246266005	LER	2/17/2010 23:18	950070	10-1547	2	LANL	USE	S
EXS02170055.wiff	246266006	LER	2/17/2010 23:34	950070	10-1547	2	LANL	USE	S
EXS02170056.wiff	WXXCCV	LER	2/17/2010 23:49			1		USE	C
EXS02170057.wiff	XIBLK07	LER	2/18/2010 0:05			1		USE	B
EXS02170058.wiff	WXXCRI	LER	2/18/2010 0:21			1		USE	C
EXS02170059.wiff	246273002	LER	2/18/2010 0:37	950070	10-1550	2	LANL	USE	S
EXS02170060.wiff	246273003	LER	2/18/2010 0:52	950070	10-1550	2	LANL	USE	S
EXS02170061.wiff	246273004	LER	2/18/2010 1:08	950070	10-1550	2	LANL	USE	S
EXS02170062.wiff	246273005	LER	2/18/2010 1:24	950070	10-1550	2	LANL	USE	S
EXS02170063.wiff	246273006	LER	2/18/2010 1:39	950070	10-1550	2	LANL	USE	S
EXS02170064.wiff	246273007	LER	2/18/2010 1:55	950070	10-1550	2	LANL	USE	S
EXS02170065.wiff	246273008	LER	2/18/2010 2:11	950070	10-1550	2	LANL	USE	S
EXS02170066.wiff	246273009	LER	2/18/2010 2:26	950070	10-1550	2	LANL	USE	S
EXS02170067.wiff	246273010	LER	2/18/2010 2:42	950070	10-1550	2	LANL	USE	S

EXS02170068.wiff	246273011	LER	2/18/2010 2:58	950070	10-1550	2	LANL	USE	S
EXS02170069.wiff	WXXCCV	LER	2/18/2010 3:14		1			USE	C
EXS02170070.wiff	XIBLK08	LER	2/18/2010 3:29		1			USE	B
EXS02170071.wiff	WXXCRI	LER	2/18/2010 3:45		1			USE	C
EXS02170072.wiff	246273012	LER	2/18/2010 4:01	950070	10-1550	2	LANL	USE	S
EXS02170073.wiff	XIBLK09	LER	2/18/2010 4:16		1			USE	B
EXS02170074.wiff	1202035670	LER	2/18/2010 4:32	950077	VARIOUS	2	LANL	USE	S
EXS02170075.wiff	1202035671	LER	2/18/2010 4:48	950077	VARIOUS	2	LANL	USE	S
EXS02170076.wiff	246287001	LER	2/18/2010 5:04	950077	10-1553	2	LANL	USE	S
EXS02170077.wiff	1202035672	LER	2/18/2010 5:19	950077	10-1553	2	LANL	USE	S
EXS02170078.wiff	1202035673	LER	2/18/2010 5:35	950077	10-1553	2	LANL	USE	S
EXS02170079.wiff	246287002	LER	2/18/2010 5:51	950077	10-1553	2	LANL	USE	S
EXS02170080.wiff	246287003	LER	2/18/2010 6:06	950077	10-1553	2	LANL	USE	S
EXS02170081.wiff	246287004	LER	2/18/2010 6:22	950077	10-1553	2	LANL	USE	S
EXS02170082.wiff	WXXCCV	LER	2/18/2010 6:38		1			USE	C
EXS02170083.wiff	XIBLK10	LER	2/18/2010 6:53		1			USE	B
EXS02170084.wiff	WXXCRI	LER	2/18/2010 7:09		1			USE	C
EXS02170085.wiff	246287005	LER	2/18/2010 7:25	950077	10-1553	2	LANL	USE	S
EXS02170086.wiff	246287006	LER	2/18/2010 7:41	950077	10-1553	2	LANL	USE	S
EXS02170087.wiff	246287007	LER	2/18/2010 7:56	950077	10-1553	2	LANL	USE	S
EXS02170088.wiff	246287008	LER	2/18/2010 8:12	950077	10-1553	2	LANL	USE	S
EXS02170089.wiff	246287010	LER	2/18/2010 8:28	950077	10-1553	2	LANL	USE	S
EXS02170090.wiff	246297002	LER	2/18/2010 8:43	950077	10-1556	2	LANL	USE	S
EXS02170091.wiff	246297003	LER	2/18/2010 8:59	950077	10-1556	2	LANL	USE	S
EXS02170092.wiff	246297004	LER	2/18/2010 9:15	950077	10-1556	2	LANL	USE	S
EXS02170093.wiff	246302001	LER	2/18/2010 9:31	950077	10-1558	2	LANL	USE	S
EXS02170094.wiff	246302002	LER	2/18/2010 9:46	950077	10-1558	2	LANL	USE	S
EXS02170095.wiff	WXXCCV	LER	2/18/2010 10:02		1			USE	C
EXS02170096.wiff	XIBLK11	LER	2/18/2010 10:18		1			USE	B
EXS02170097.wiff	WXXCRI	LER	2/18/2010 10:33		1			USE	C
EXS02170098.wiff	246302003	LER	2/18/2010 10:49	950077	10-1558	2	LANL	USE	S
EXS02170099.wiff	246302004	LER	2/18/2010 11:05	950077	10-1558	2	LANL	USE	S
EXS02170100.wiff	246312001	LER	2/18/2010 11:21	950077	10-1561	2	LANL	USE	S
EXS02170101.wiff	WXXCCV	LER	2/18/2010 11:36		1			USE	C
EXS02170102.wiff	XIBLK12	LER	2/18/2010 11:52		1			USE	B
EXS02170103.wiff	WXXCRI	LER	2/18/2010 12:08		1			USE	C
EXS02170104.wiff	1202023589	LER	2/18/2010 12:23	944915	VARIOUS	2	LANL	USE	S

EXS02170105.wiff	1202023590	LER	2/18/2010 12:39	944915	VARIOUS	2	LANL	USE	S
EXS02170106.wiff	245377001	LER	2/18/2010 12:55	944915	10-1378	2	LANL	USE	S
EXS02170107.wiff	245377002	LER	2/18/2010 13:11	944915	10-1378	2	LANL	USE	S
EXS02170108.wiff	245377003	LER	2/18/2010 13:26	944915	10-1378	2	LANL	USE	S
EXS02170109.wiff	245377004	LER	2/18/2010 13:42	944915	10-1378	2	LANL	USE	S
EXS02170110.wiff	245377005	LER	2/18/2010 13:58	944915	10-1378	2	LANL	USE	S
EXS02170111.wiff	245377006	LER	2/18/2010 14:13	944915	10-1378	2	LANL	USE	S
EXS02170112.wiff	245377007	LER	2/18/2010 14:29	944915	10-1378	2	LANL	USE	S
EXS02170113.wiff	245377008	LER	2/18/2010 14:45	944915	10-1378	2	LANL	USE	S
EXS02170114.wiff	WXXCCV	LER	2/18/2010 15:01			1		USE	C
EXS02170115.wiff	XIBLK13	LER	2/18/2010 15:16			1		USE	B
EXS02170116.wiff	WXXCRI	LER	2/18/2010 15:32			1		USE	C
EXS02170117.wiff	245377009	LER	2/18/2010 15:48	944915	10-1378	2	LANL	USE	S
EXS02170118.wiff	245377010	LER	2/18/2010 16:04	944915	10-1378	2	LANL	USE	S
EXS02170119.wiff	245396001	LER	2/18/2010 16:19	944915	10-1394	2	LANL	USE	S
EXS02170120.wiff	1202023591	LER	2/18/2010 16:35	944915	10-1394	2	LANL	USE	S
EXS02170121.wiff	1202023592	LER	2/18/2010 16:51	944915	10-1394	2	LANL	USE	S
EXS02170122.wiff	245396002	LER	2/18/2010 17:06	944915	10-1394	2	LANL	USE	S
EXS02170123.wiff	245396003	LER	2/18/2010 17:22	944915	10-1394	2	LANL	USE	S
EXS02170124.wiff	245396004	LER	2/18/2010 17:38	944915	10-1394	2	LANL	USE	S
EXS02170125.wiff	247033002	LER	2/18/2010 17:54	944915	10-1821	2	LANL	USE	S
EXS02170126.wiff	WXXCCV	LER	2/18/2010 18:09			1		USE	C
EXS02170127.wiff	XIBLK14	LER	2/18/2010 18:25			1		USE	B
EXS02170128.wiff	WXXCRI	LER	2/18/2010 18:41			1		USE	C
EXS02170129.wiff	1202035674	LER	2/18/2010 18:57	950079	10-1562	2	LANL	USE	S
EXS02170130.wiff	1202035675	LER	2/18/2010 19:12	950079	10-1562	2	LANL	USE	S
EXS02170131.wiff	246316001	LER	2/18/2010 19:28	950079	10-1562	2	LANL	USE	S
EXS02170132.wiff	1202035676	LER	2/18/2010 19:44	950079	10-1562	2	LANL	USE	S
EXS02170133.wiff	1202035677	LER	2/18/2010 19:59	950079	10-1562	2	LANL	USE	S
EXS02170134.wiff	246316002	LER	2/18/2010 20:15	950079	10-1562	2	LANL	USE	S
EXS02170135.wiff	246316003	LER	2/18/2010 20:31	950079	10-1562	2	LANL	USE	S
EXS02170136.wiff	246316004	LER	2/18/2010 20:47	950079	10-1562	2	LANL	USE	S
EXS02170137.wiff	246316005	LER	2/18/2010 21:02	950079	10-1562	2	LANL	USE	S
EXS02170138.wiff	WXXCCV	LER	2/18/2010 21:18			1		USE	C
EXS02170139.wiff	XIBLK15	LER	2/18/2010 21:34			1		USE	B
EXS02170140.wiff	WXXCRI	LER	2/18/2010 21:50			1		USE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 793796

Revision No.: 1

DATA EXCEPTION REPORT

Mo.Day Yr. 21-FEB-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 947089	Sample Numbers: 1202028686		
Potentially affected work order(s)(SDG): 245795(10-1470) Application Issues: Failed Recovery for LCS/LCSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. The Laboratory Control Sample (1202028686) did not meet spike recovery limits for Tetra at 39.2%. The recovery limits are 51-112%.		1. Since the Matrix Spike and Matrix Spike Duplicate both met acceptance limits for Tetra, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. The Tetra recovery met the DOD QSM recovery limits of 10-150%.	

Originator's Name:

Michael Penny 21-FEB-10

Data Validator/Group Leader:

Herbert Maler 22-FEB-10

GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1470**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 949033
Prep Batch Number: 949031

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
245795001	RE15-10-7888
245795002	RE15-10-7890
245795003	RE15-10-7886
245795004	RE15-10-7889
245795005	RE15-10-7885
245795006	RE15-10-7882
245795007	RE15-10-7887
245795008	RE15-10-7881
1202033246	Method Blank (MB)
1202033247	Laboratory Control Sample (LCS)
1202033248	245969001(RE15-10-7880) Matrix Spike (MS)
1202033249	245969001(RE15-10-7880) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 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.

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.

One or more of the five quantified peaks did not meet the acceptance criteria in Aroclor-1254 and Aroclor-1268 standards analyzed for this SDG; however, the average concentration of the five quantitated peaks met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1512) was selected for the matrix spike and matrix spike duplicate analysis for this batch; however the MS and MSD results were not reportable because the parent sample was re-extracted and reported in another batch.

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

Samples 245795002 (RE15-10-7890) and 245795004 (RE15-10-7889) were extracted and analyzed twice. The two sets of the results match with each other. The first analysis was reported.

Miscellaneous Information

Electronic Package Comment

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

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic

signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception report (DER) is for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integration

Certain standards and samples may have required manual integration to correctly position the baseline as set in the calibration standard injections. If manual integration was performed, copies of all manual integration peak profiles are included in the raw data section of this PCB fraction.

Additional Comments

The additional comments field is used to address special issues associated with each analysis, clarify method/contractual issues pertaining to the analysis, and to list any report documents generated as a result of sample analysis or review. The following additional comments were required:

The higher results from either column have been chosen and reported in the data package for the client samples, MB and LCS.

The data reported on the form I and III may differ slightly from the data reported on the form X. This is due to software limitations in rounding differences between the forms.

Aroclors quantitated on the raw data report by the Target data system do not necessarily represent positive Aroclor identification. In order for positive identification to be made, the Aroclor must match in pattern and retention time; as well as quantitate relatively close between the primary and confirmation columns, as specified in SW846 method 8000. When these conditions are not met, the Aroclor is reported as a non-detect on the data report. These situations will be noted on the raw data as DMP, representing does not match pattern, or DNC does not confirm.

Due to software limitation, the Form VII's will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD1A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide)
ECD1A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticideII)

Certification Statement

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

Review Validation

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

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

Reviewer: Jinni Cao

Date: 2/25/10

Roadmap for LANL 10-1470 PCB

This roadmap was analyzed by yip00818 on 02-12-2010, 13:38.

This roadmap was reviewed by jim01140 on 02-16-2010, 08:57.

This roadmap was packaged by yml on 02-24-2010, 18:11.

This roadmap was validated by jim01140 on 02-25-2010, 09:14.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ced1a.020510.b015c1301.d	245795001	sample	05-FEB-2010	09:23	10-1470.sub	RE15-10-7888	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ced1a.021010b.b017b1701.d	245795007	sample	10-FEB-2010	16:01	10-1470.sub	RE15-10-7890	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ced1a.020510.b016f1601.d	245795002	sample	05-FEB-2010	09:36	10-1470.sub	RE15-10-7890	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ced1a.020510.b017f1701.d	245795003	sample	05-FEB-2010	09:48	10-1470.sub	RE15-10-7886	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ced1a.021010b.b018b1801.d	245795004	sample	10-FEB-2010	16:14	10-1470.sub	RE15-10-7889	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ced1a.020510.b018f1801.d	245795004	sample	05-FEB-2010	10:01	10-1470.sub	RE15-10-7889	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ced1a.020510.b019f1901.d	245795005	sample	05-FEB-2010	10:13	10-1470.sub	RE15-10-7885	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b020c2001.d	245795006	sample	05-FEB-2010	10:26	10-1470.sub	RE15-10-7882	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b021c2101.d	245795007	sample	05-FEB-2010	10:39	10-1470.sub	RE15-10-7887	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b024c2401.d	245795008	sample	05-FEB-2010	11:12	10-1470.sub	RE15-10-7881	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
<input type="checkbox"/>	N	/chem/ced1a.020510.b015b1501.d	245795001	sample	05-FEB-2010	09:23	10-1470.sub	RE15-10-7888	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ced1a.021010b.b017b1701.d	245795002	sample	10-FEB-2010	16:01	10-1470.sub	RE15-10-7890	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ced1a.020510.b016b1601.d	245795002	sample	05-FEB-2010	09:36	10-1470.sub	RE15-10-7890	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ced1a.020510.b017b1701.d	245795003	sample	05-FEB-2010	09:48	10-1470.sub	RE15-10-7886	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input checked="" type="checkbox"/>	N	/chem/ced1a.021010b.b018b1801.d	245795004	sample	10-FEB-2010	16:14	10-1470.sub	RE15-10-7889	1.00000	950898	DUSE CONFIRMATION FOR AR1268 HIT
<input type="checkbox"/>	N	/chem/ced1a.020510.b018b1801.d	245795004	sample	05-FEB-2010	10:01	10-1470.sub	RE15-10-7889	1.00000	949033	AR1268 RE TO CONFIRM
<input type="checkbox"/>	N	/chem/ced1a.020510.b019b1901.d	245795005	sample	05-FEB-2010	10:13	10-1470.sub	RE15-10-7885	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b020b2001.d	245795006	sample	05-FEB-2010	10:26	10-1470.sub	RE15-10-7882	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b021b2101.d	245795007	sample	05-FEB-2010	10:39	10-1470.sub	RE15-10-7887	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER
<input type="checkbox"/>	N	/chem/ced1a.020510.b024b2401.d	245795008	sample	05-FEB-2010	11:12	10-1470.sub	RE15-10-7881	1.00000	949033	UPLOAD BOTH COLUMNS, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smplid	sampletype	injdate	injtime	sublist	clientid	dilution	prebatchid	comment
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<input type="checkbox"/>	N	/chem/ecdl1a.i/020510.b/012f1201-1.d	1202033246	mb	05-FEB-2010	08:52	10-1470.sub	PBLK01	1.00000	949033	<input type="text"/>
<input type="checkbox"/>	N	/chem/ecdl1a.i/020510.b/013f1301-1.d	1202033247	lcs	05-FEB-2010	09:02	10-1470.sub	PBLK01LCS	1.00000	949033	<input type="text"/>

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecdl1a.i/020510.b/012b1701-1.d	1202033246	mb	05-FEB-2010	08:52	10-1470.sub	PBLK01	1.00000	949033	<input type="text"/>
<input type="checkbox"/>	N	/chem/ecdl1a.i/020510.b/013b1301-1.d	1202033247	lcs	05 FEB 2010	09:02	10-1470.sub	PBLK01LCS	1.00000	949033	<input type="text"/>

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795008

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
% Moisture: 37.1
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	5.30	ug/kg	1.76	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.76	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.76	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.76	5.30	1
12672-29-6	Aroclor 1248	U	5.30	ug/kg	1.76	5.30	1
11097-69-1	Aroclor-1254	U	5.30	ug/kg	1.76	5.30	1
11096-82-5	Aroclor-1260	U	5.30	ug/kg	1.76	5.30	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
 Lab Sample ID: 245795006

Date Collected: 01/26/2010 12:00
 Date Received: 01/29/2010 08:45
 Client: LANL010
 Method: SW846 8082
 Inst: ECD1A.I
 Analyst: YS1
 Aliquot: 30.03 g
 Column: 1 CLP1
 2 CLP2

Matrix: SOIL
 %Moisture: 12.5
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-7882
 Batch ID: 949033
 Run Date: 02/05/2010 10:26
 Prep Date: 02/04/2010 20:32
 Data File: 020f2001.d
 020b2001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.81	ug/kg	1.27	3.81	1
11104-28-2	Aroclor-1221	U	3.81	ug/kg	1.27	3.81	1
11141-16-5	Aroclor-1232	U	3.81	ug/kg	1.27	3.81	1
53469-21-9	Aroclor-1242	U	3.81	ug/kg	1.27	3.81	1
12672-29-6	Aroclor 1248	U	3.81	ug/kg	1.27	3.81	1
11097-69-1	Aroclor-1254	U	3.81	ug/kg	1.27	3.81	1
11096-82-5	Aroclor-1260	U	3.81	ug/kg	1.27	3.81	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795005

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 33.1
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	4.97	ug/kg	1.66	4.97	1
11104-28-2	Aroclor-1221	U	4.97	ug/kg	1.66	4.97	1
11141-16-5	Aroclor-1232	U	4.97	ug/kg	1.66	4.97	1
53469-21-9	Aroclor-1242	U	4.97	ug/kg	1.66	4.97	1
12672-29-6	Aroclor-1248	U	4.97	ug/kg	1.66	4.97	1
11097-69-1	Aroclor-1254	J	3.40	ug/kg	1.66	4.97	1
11096-82-5	Aroclor-1260	U	4.97	ug/kg	1.66	4.97	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470	Date Collected: 01/26/2010 12:00	Matrix: SOIL
Lab Sample ID: 245795003	Date Received: 01/29/2010 08:45	%Moisture: 6.5
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-7886	Method: SW846 8082	SOP Ref: GL-OA-E-040
Batch ID: 949033	Inst: ECD1A.1	Dilution: 1
Run Date: 02/05/2010 09:48	Analyst: YS1	Inj. Vol: 1 uL
Prep Date: 02/04/2010 20:32	Aliquot: 30.18 g	Final Volume: 1 mL
Data File: 017f1701.d	Column: 1 CLP1	Level: LOW
	2 CLP2	

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

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795007

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
% Moisture: 33
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.98	ug/kg	1.66	4.98	1
11104-28-2	Aroclor-1221	U	4.98	ug/kg	1.66	4.98	1
11141-16-5	Aroclor-1232	U	4.98	ug/kg	1.66	4.98	1
53469-21-9	Aroclor-1242	U	4.98	ug/kg	1.66	4.98	1
12672-29-6	Aroclor-1248	U	4.98	ug/kg	1.66	4.98	1
11097-69-1	Aroclor-1254	U	4.98	ug/kg	1.66	4.98	1
11096-82-5	Aroclor-1260	U	4.98	ug/kg	1.66	4.98	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795001

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 9.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470

Lab Sample ID: 245795004

Client ID: RE15-10-7889

Batch ID: 949033

Run Date: 02/05/2010 10:01

Prep Date: 02/04/2010 20:32

Data File: 018f1801.d

018b1801.d

Date Collected: 01/26/2010 12:00

Date Received: 01/29/2010 08:45

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YS1

Aliquot: 30.01 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

%Moisture: 37.1

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	5.30	ug/kg	1.77	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.77	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.77	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.77	5.30	1
12672-29-6	Aroclor-1248	U	5.30	ug/kg	1.77	5.30	1
11097-69-1	Aroclor-1254	P	36.8	ug/kg	1.77	5.30	1
11096-82-5	Aroclor-1260		23.3	ug/kg	1.77	5.30	2
11100-14-4	Aroclor-1268		20.5	ug/kg	1.77	5.30	2

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470	Date Collected: 01/26/2010 12:00	Matrix: SOIL
Lab Sample ID: 245795002	Date Received: 01/29/2010 08:45	%Moisture: 9.8
	Client: LANL010	Project: LANL01004
Client ID: RE15-10-7890	Method: SW846 8082	SOP Ref: GL-OA-E-040
Batch ID: 949033	Inst: ECD1A.I	Dilution: 1
Run Date: 02/05/2010 09:36	Analyst: YS1	Inj. Vol: 1 uL
Prep Date: 02/04/2010 20:32	Aliquot: 30.19 g	Final Volume: 1 mL
Data File: 016f1601.d	Column: 1 CLP1	Level: LOW
	2 CLP2	

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	JP	2.90	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	J	3.10	ug/kg	1.22	3.67	2
11100-14-4	Aroclor-1268	P	4.50	ug/kg	1.22	3.67	2

QUALITY CONTROL SUMMARY

PCB

Page 1 of 1

Surrogate Recovery Report

SDG Number: 10-1470

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 #
1202033246	MB for batch 949031	61	61	56	67
1202033247	LCS for batch 949031	63	62	61	67
245795001	RE15-10-7888	59	58	65	66
245795002	RE15-10-7890	62	62	55	71
245795003	RE15-10-7886	59	59	63	68
245795004	RE15-10-7889	59	58	63	69
245795005	RE15-10-7885	54	54	53	62
245795006	RE15-10-7882	62	62	57	71
245795007	RE15-10-7887	58	57	55	67
245795008	RE15-10-7881	62	61	54	70

Surrogate

Acceptance Limits

4CMX = 4cmx

(32%-120%)

DCB = Decachlorobiphenyl

(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

Page 1 of 1

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1470

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 949031

Matrix: SOIL

Lab Sample ID:1202033247

Instrument: ECD1A.I

Analysis Date: 02/05/2010 09:02

Dilution: 1

Analyst: YS1

Prep Batch #: 949031

Inj. Vol: 1 uL

Batch ID: 949033

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	20.2	61	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	23.7	71	45-118

Method Blank Summary

Page 1 of 1

SDG Number:	10-1470	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 949031	Instrument ID:	ECD1A.I_2 ECD1A.I_1	Data File:	012b1201-1.d 012f1201-1.d
Lab Sample ID:	1202033246	Prep Date:	02/04/2010 20:32	Analyzed:	02/05/10 08:52
Column:	CLP2 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 949031	1202033247	013f1301-1.d 013b1301-1.d	02/05/10	0902
02 RE15-10-7888	245795001	015f1501.d 015b1501.d	02/05/10	0923
03 RE15-10-7890	245795002	016f1601.d 016b1601.d	02/05/10	0936
04 RE15-10-7886	245795003	017f1701.d 017b1701.d	02/05/10	0948
05 RE15-10-7889	245795004	018f1801.d 018b1801.d	02/05/10	1001
06 RE15-10-7885	245795005	019f1901.d 019b1901.d	02/05/10	1013
07 RE15-10-7882	245795006	020f2001.d 020b2001.d	02/05/10	1026
08 RE15-10-7887	245795007	021f2101.d 021b2101.d	02/05/10	1039
09 RE15-10-7881	245795008	024f2401.d 024b2401.d	02/05/10	1112

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795008

Client ID: RE15-10-7881
Batch ID: 949033
Run Date: 02/05/2010 11:12
Prep Date: 02/04/2010 20:32
Data File: 024f2401.d
024b2401.d

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.1
Analyst: YS1
Aliquot: 30.02 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 37.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parinname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.30	ug/kg	1.76	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.76	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.76	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.76	5.30	1
12672-29-6	Aroclor-1248	U	5.30	ug/kg	1.76	5.30	1
11097-69-1	Aroclor-1254	U	5.30	ug/kg	1.76	5.30	1
11096-82-5	Aroclor-1260	U	5.30	ug/kg	1.76	5.30	1

Data File: /chem/ecdla.i/020510.b/024f2401.d
Report Date: 05-Feb-2010 12:01

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/024f2401.d

Lab Smp Id: 245795008

Client Smp ID: RE15-10-7881

Inj Date : 05-FEB-2010 11:12

Operator : YS1

Inst ID: ecdla.i

Smp Info : |245795008|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7881|||

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 11:31 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 24

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	37.09770	% Moisture

Cpnd Variable

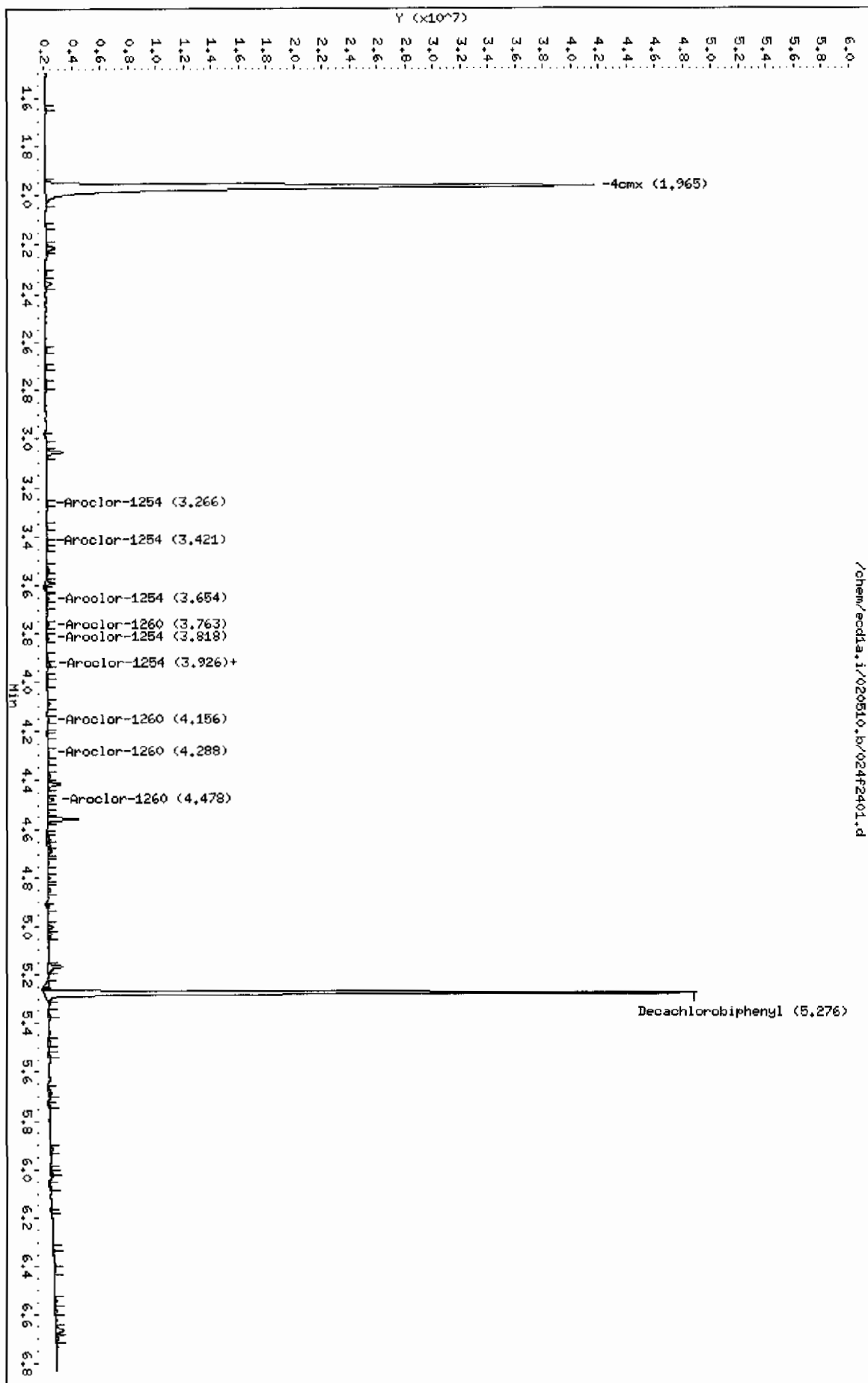
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
1.965	1.965	0.000	49277875 123.612	6.5	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.276	5.275	0.001	34656359 107.190	5.7	80.00- 120.00	100.00	

Data File: /chem/ecdda.i/020510.b/024f2401.d
Date: 05-FEB-2010 11:12
Client ID: RE15-10-7881
Sample Info: 124579500811
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdl1a.i/020510.b/024b2401.d
Report Date: 05-Feb-2010 12:00

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/024b2401.d

Lab Smp Id: 245795008

Client Smp ID: RE15-10-7881

Inj Date : 05-FEB-2010 11:12

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245795008|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7881|

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 11:30 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 24

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	37.09770	% Moisture

Cpnd Variable

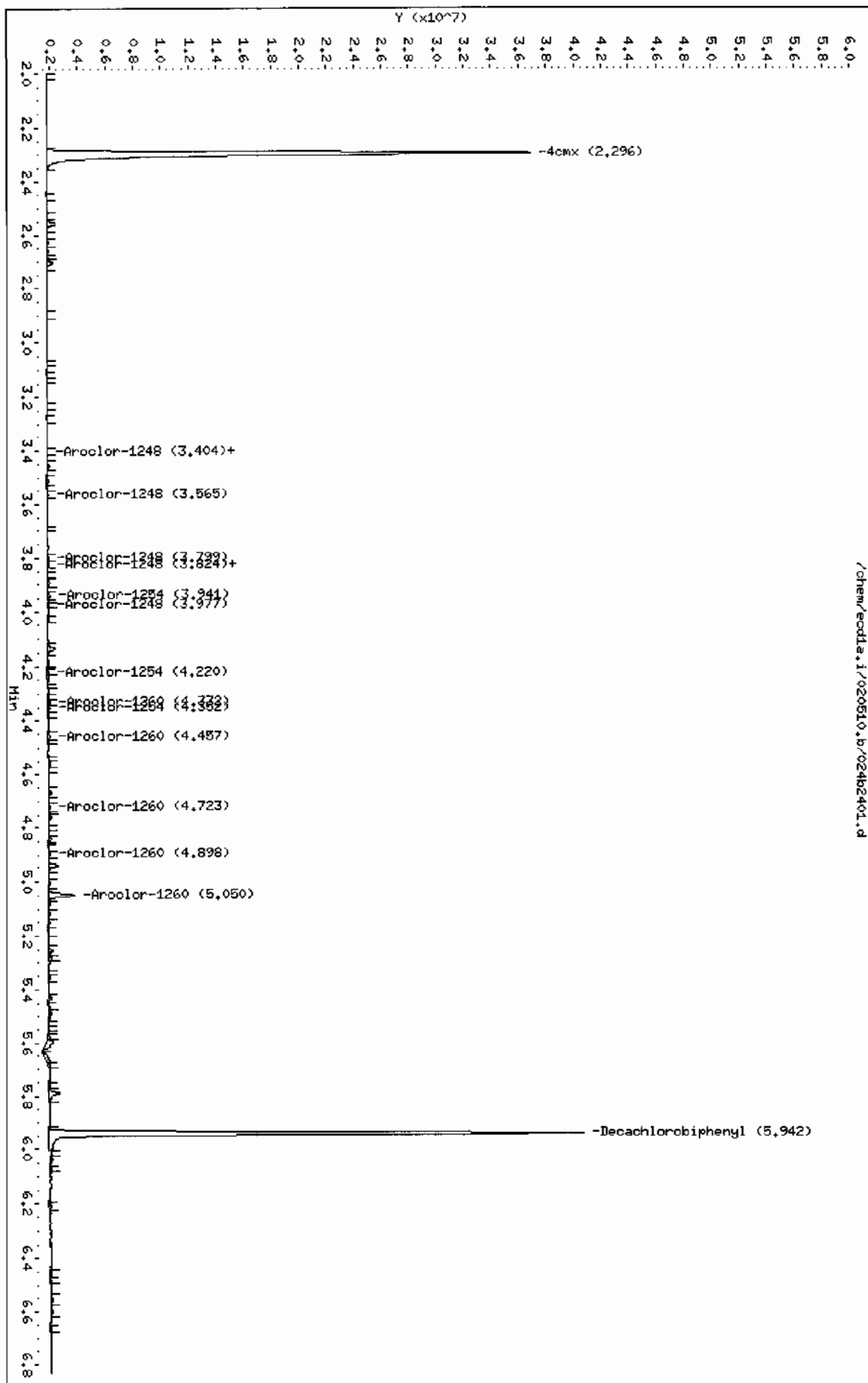
Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.296	2.296	0.000	35244273	122.698	6.5 80.00-120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.942	5.942	0.000	30533292	140.300	7.4 80.00-120.00	100.00	

Data File: /chem/ecdl1.i/020510.b/024b2401.d
Date : 05-FEB-2010 11:12
Client ID: RELS-10-7881
Sample Info: 1245795008111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1470	Date Collected:	01/26/2010 12:00	Matrix:	SOIL
Lab Sample ID:	245795006	Date Received:	01/29/2010 08:45	%Moisture:	12.5
Client ID:	RE15-10-7882	Client:	LANL010	Project:	LANL01004
Batch ID:	949033	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	02/05/2010 10:26	Inst:	ECDIA.I	Dilution:	1
Prep Date:	02/04/2010 20:32	Analyst:	YS1	Inj. Vol:	1 uL
Data File:	020f2001.d	Aliquot:	30.03 g	Final Volume:	1 mL
	020b2001.d	Column:	1 CLP1	Level:	LOW
			2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.81	ug/kg	1.27	3.81	1
11104-28-2	Aroclor-1221	U	3.81	ug/kg	1.27	3.81	1
11141-16-5	Aroclor-1232	U	3.81	ug/kg	1.27	3.81	1
53469-21-9	Aroclor-1242	U	3.81	ug/kg	1.27	3.81	1
12672-29-6	Aroclor-1248	U	3.81	ug/kg	1.27	3.81	1
11097-69-1	Aroclor-1254	U	3.81	ug/kg	1.27	3.81	1
11096-82-5	Aroclor-1260	U	3.81	ug/kg	1.27	3.81	1

Data File: /chem/ecdl1a.i/020510.b/020f2001.d
Report Date: 05-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/020f2001.d

Lab Smp Id: 245795006

Client Smp ID: RE15-10-7882

Inj Date : 05-FEB-2010 10:26

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245795006|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7882|||

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 11:26 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 20

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpclpl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	12.49770	% Moisture

Cpnd Variable

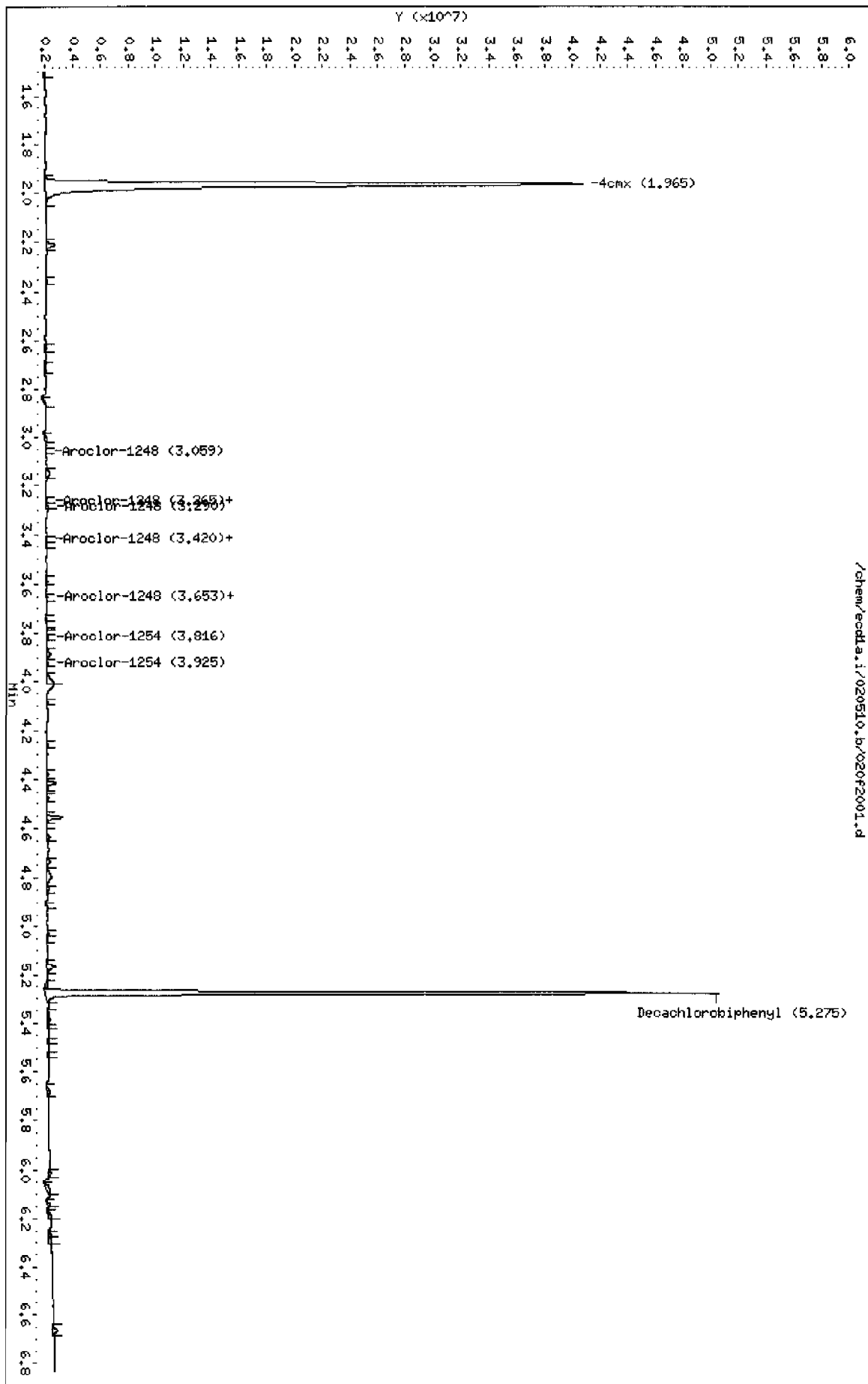
Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)		=====
\$ 11 4cmx				CAS #: 877-09-8		
1.965	1.965	0.000	49779103 124.870	4.8	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.275	5.275	0.000	36764816 113.712	4.3	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/020510.b/020f2001.d
 Date : 05-FEB-2010 10:26
 Client ID: REL5-10-7882
 Sample Info: 1245795006111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdl1.i
 Operator: YSL
 Column diameter: 0.25



Data File: /chem/ecdl1a.i/020510.b/020b2001.d
Report Date: 05-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/020510.b/020b2001.d
Lab Smp Id: 245795006 Client Smp ID: RE15-10-7882
Inj Date : 05-FEB-2010 10:26
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |245795006|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7882|||
Comment :
Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
Meth Date : 05-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	12.49770	% Moisture

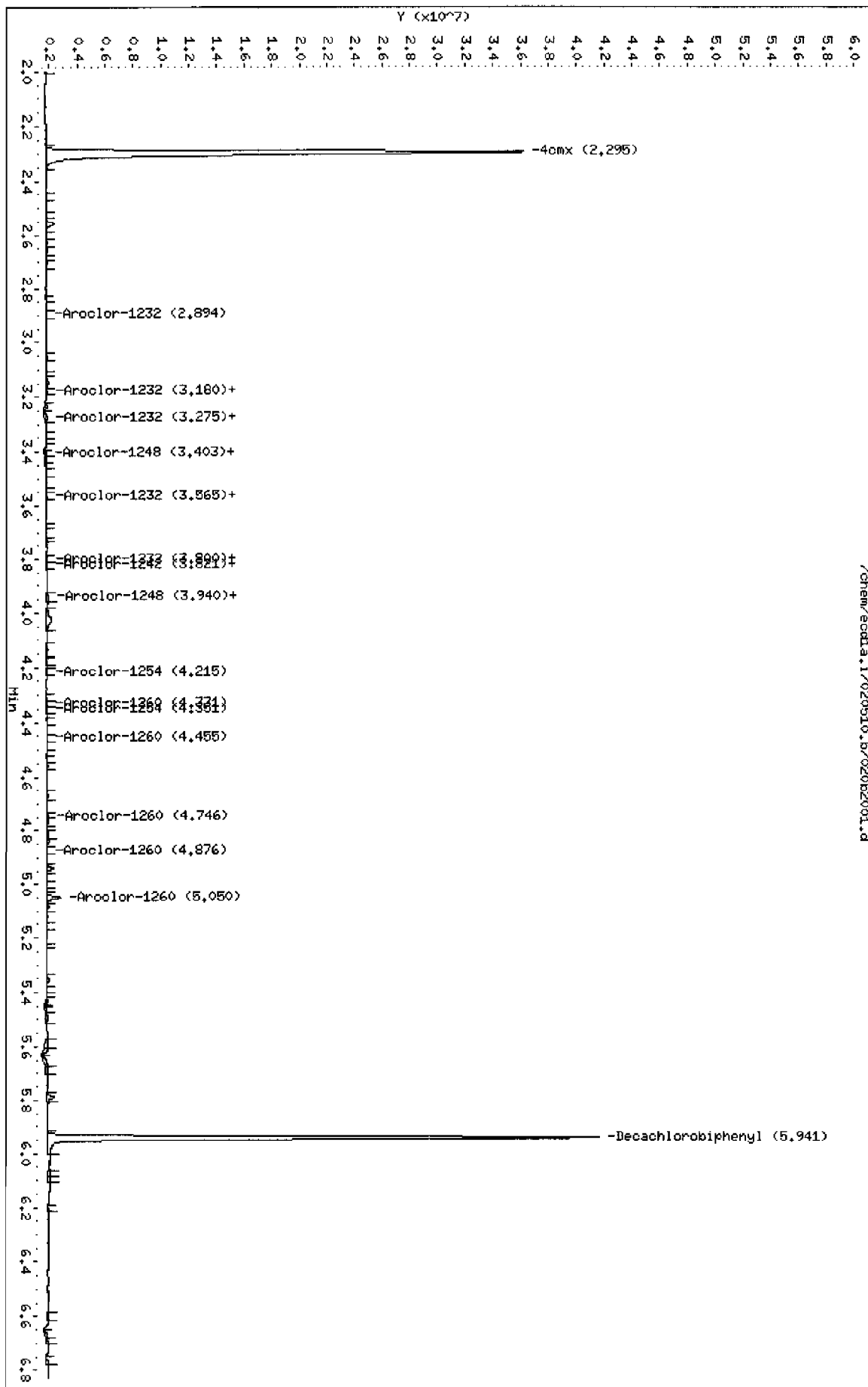
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
--	-----	-----	-----	-----	-----	-----
\$ 11 4cmx CAS #: 877-09-8						
2.295	2.296	-0.001	35678279	124.209	4.7 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.941	5.942	-0.001	30700178	141.067	5.4 80.00- 120.00	100.00

Data File: /chem/ecdia.i/020510.b/020b2001.d
Date : 05-FEB-2010 10:26
Client ID: RE15-10-7882
Sample Info: 1245795006111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdia.i
Operator: YSL
Column diameter: 0.25



PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1470
Lab Sample ID: 245795005Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: VS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2Matrix: SOIL
%Moisture: 33.1
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.97	ug/kg	1.66	4.97	1
11104-28-2	Aroclor-1221	U	4.97	ug/kg	1.66	4.97	1
11141-16-5	Aroclor-1232	U	4.97	ug/kg	1.66	4.97	1
53469-21-9	Aroclor-1242	U	4.97	ug/kg	1.66	4.97	1
12672-29-6	Aroclor-1248	U	4.97	ug/kg	1.66	4.97	1
11097-69-1	Aroclor-1254	J	3.40	ug/kg	1.66	4.97	1
11096-82-5	Aroclor-1260	U	4.97	ug/kg	1.66	4.97	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/019f1901.d
Lab Smp Id: 245795005 Client Smp ID: RE15-10-7885
Inj Date : 05-FEB-2010 10:13
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |245795005|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7885|||
Comment :
Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m
Meth Date : 05-Feb-2010 11:31 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.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	33.07300	% 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									
1.965	1.965	0.000	42915967	107.654	5.4 80.00 120.00	100.00			

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3									
5.275	5.275	0.000	34531028	106.803	5.3 80.00- 120.00	100.00			

6 Aroclor-1254 CAS #: 11097-69-1									
3.264	3.266	-0.002	712194	57.0418	2.8 80.00- 120.00	100.00(a)			
3.419	3.421	-0.002	845054	50.5356	2.5 118.05- 158.05	118.66			
3.653	3.655	-0.002	1399731	67.5744	3.4 160.50 200.50	196.54			
3.816	3.818	-0.002	961296	61.2517	3.0 116.88- 156.88	134.98			

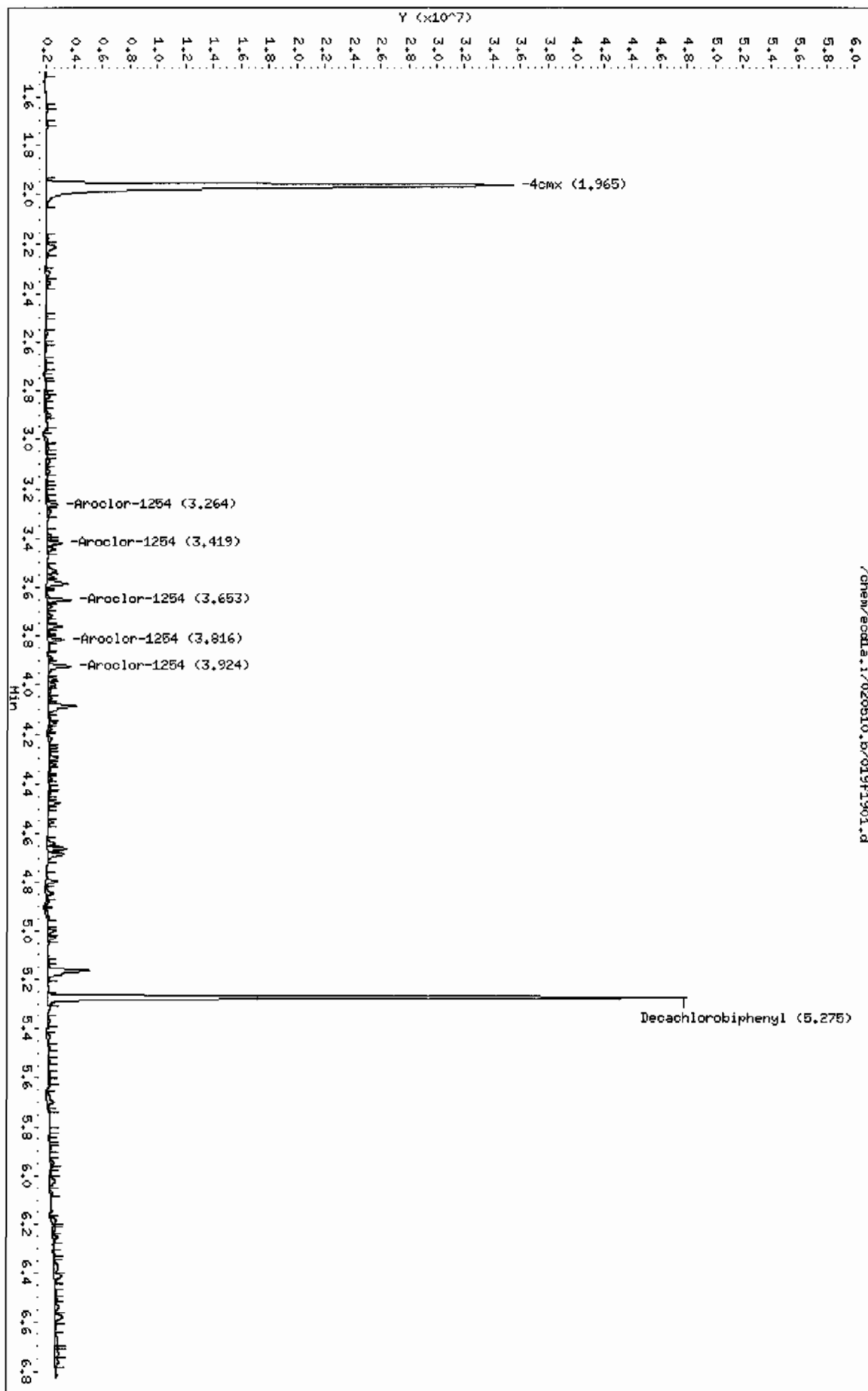
CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLI RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)						
3.924	3.926	-0.002	1654321	109.034	5.4	110.22- 150.22 232.28
Average of Peak Concentrations =					3.4	

QC Flag Legend

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

Data File: /chem/ecdl.a.i/020510.b/019f1901.d
Date : 05-FEB-2010 10:13
Client ID: RELS-10-7885
Sample Info: 1245795005111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file: /chem/ecdl1a.i/020510.b/019b1901.d

Lab Smp Id: 245795005

Client Smp ID: RE15-10-7885

Inj Date: 05-FEB-2010 10:13

Operator: YSl

Inst ID: ecd1a.i

Smp Info: |245795005|1|

Misc Info: |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7885|

Comment:

Method: /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date: 05-Feb-2010 11:30 yip00818

Quant Type: ESTD

Cal Date: 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 19

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	33.07300	% 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							
2.296	2.296	0.000	31058309	108.125	5.4 80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.941	5.942	-0.001	26930404	123.745	6.2 80.00 120.00	100.00	
6 Aroclor-1254 CAS #: 11097-69-1							
3.401	3.401	0.000	319661	49.6734	2.5 80.00- 120.00	100.00(a)	
3.822	3.824	-0.002	717035	62.0309	3.1 160.72- 200.72	224.31	
3.939	3.940	-0.001	848731	68.2738	3.4 179.44- 219.44	265.51	
4.216	4.216	0.000	754816	44.7164	2.2 255.74- 295.74	236.13	

CONCENTRATIONS						
			ON COL		FINAL	
RT	EXP RT	DLT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE RATIO
==	=====	=====		=====	=====	=====
6 Aroclor-1254 (continued)						
4.351	4.353	-0.002		921423 74.0963	3.7 176.59- 216.59	288.25
Average of Peak Concentrations =					3.0	

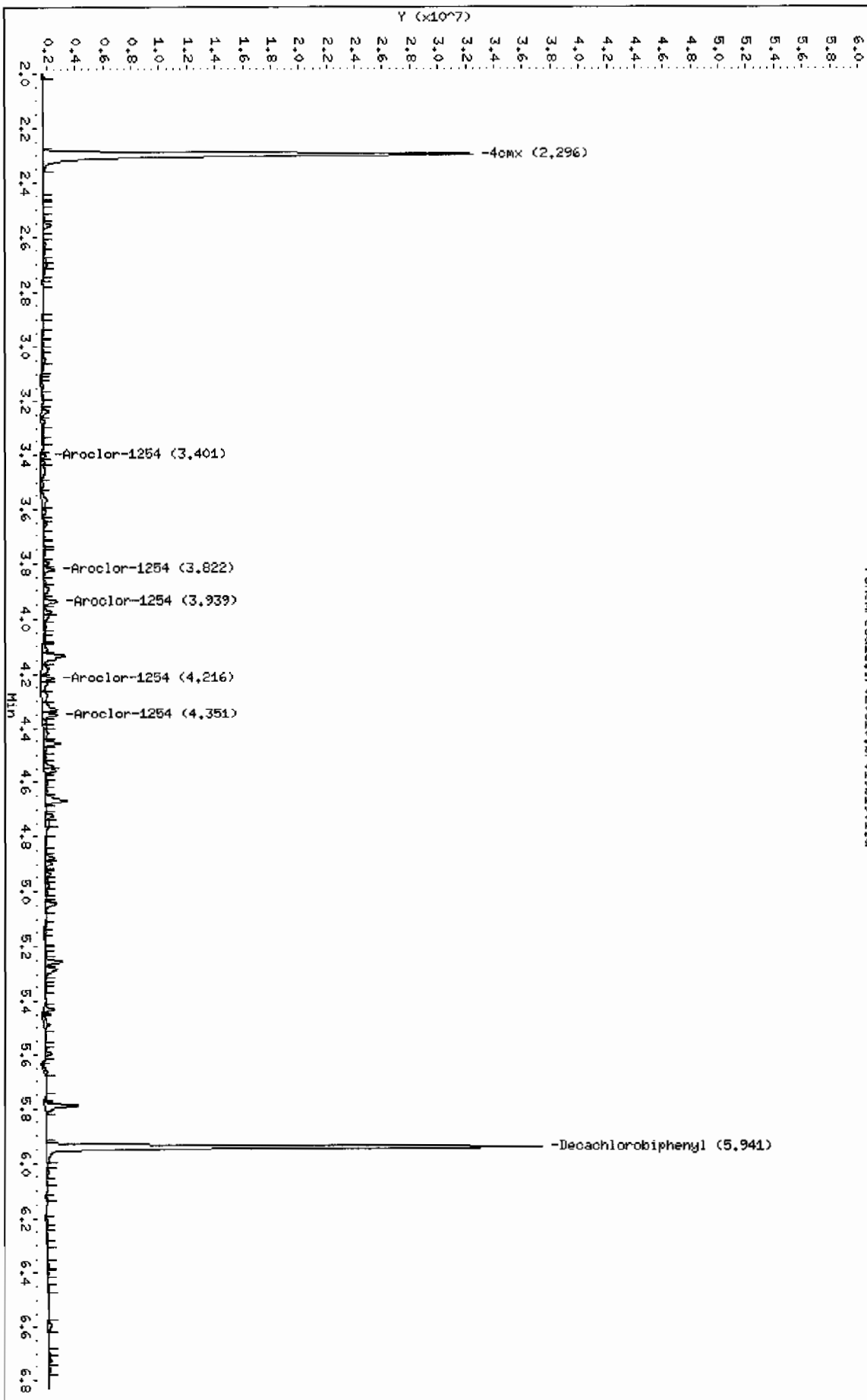
QC Flag Legend

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

Data File: /chem/ecdda.i/020510.b/019b1901.d
Date : 05-FEB-2010 10:13
Client ID: RE15-10-7885
Sample Info: 124579500511
Volume Injected (uL): 1.0
Column Phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

/chem/ecdda.i/020510.b/019b1901.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470

Lab Sample ID: 245795003

Client ID: RE15-10-7886

Batch ID: 949033

Run Date: 02/05/2010 09:48

Prep Date: 02/04/2010 20:32

Data File: 017f1701.d

017b1701.d

Date Collected: 01/26/2010 12:00

Date Received: 01/29/2010 08:45

Client: LANL010

Method: SW846 8082

Inst: ECD1A.I

Analyst: YSI

Aliquot: 30.18 g

Column: 1 CLP1

2 CLP2

Matrix: SOIL

%Moisture: 6.5

Project: LANL01004

SOP Ref: GL-OA-E-040

Dilution: 1

Inj. Vol: 1 uL

Final Volume: 1 mL

Level: LOW

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

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/017f1701.d

Lab Smp Id: 245795003

Client Smp ID: RE15-10-7886

Inj Date : 05-FEB-2010 09:48

Operator : YSl

Inst ID: ecdla.i

Smp Info : |245795003|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7886|||

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 11:26 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 17

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	6.52600	% Moisture

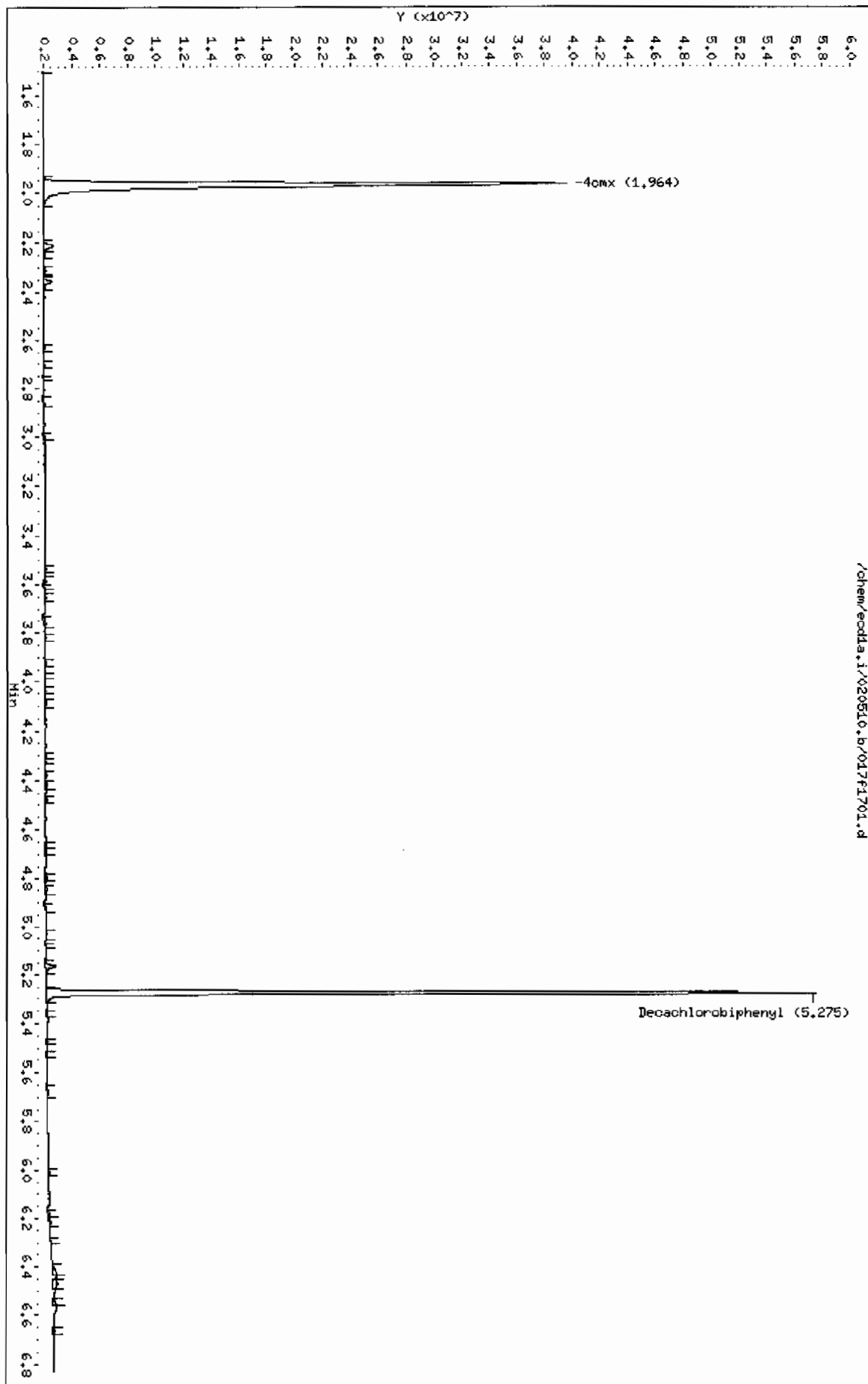
Cpnd Variable

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			
1.964	1.965	-0.001	47111847	118.179	4.2	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.275	5.275	0.000	40774112	126.112	4.5	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/020510.b/017f1701.d
Date : 05-FEB-2010 09:48
Client ID: RE15-10-7886
Sample Info: 1245795003111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



Data File: /chem/ecdla.i/020510.b/017b1701.d
Report Date: 05-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/017b1701.d
Lab Smp Id: 245795003 Client Smp ID: RE15-10-7886
Inj Date : 05-FEB-2010 09:48
Operator : YS1 Inst ID: ecdla.i
Smp Info : |245795003|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7886|||
Comment :
Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m
Meth Date : 05-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.18000	Weight of sample extracted (g)
M	6.52600	% Moisture

Cpnd Variable Local Compound Variable

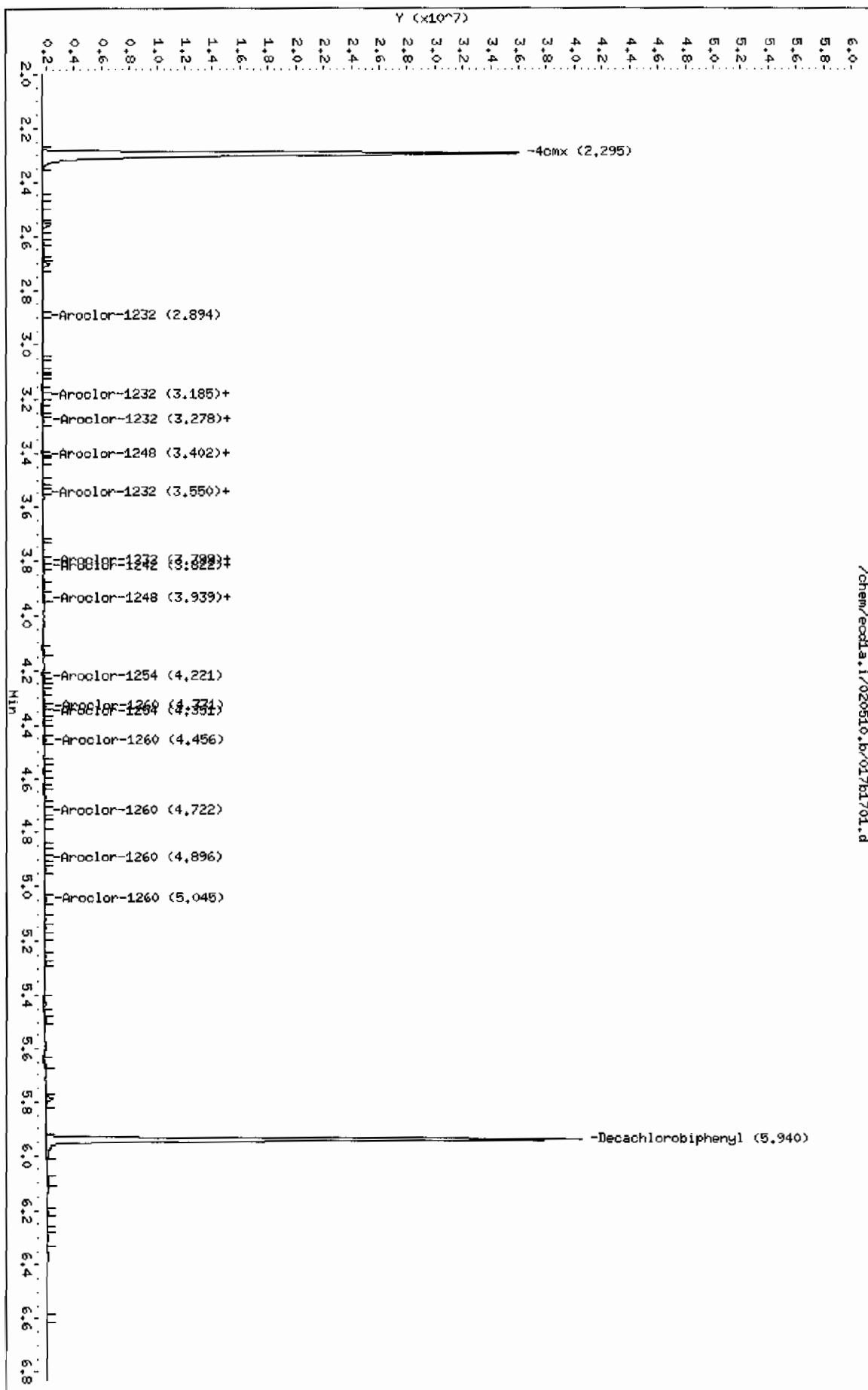
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.295	2.296	-0.001	34051652	118.546	4.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.940	5.942	-0.002	29665470	136.313	4.8 80.00- 120.00	100.00

Data File: /chem/ecdda.i/020510.b/017b1701.d
Date: 05-FEB-2010 09:48
Client ID: RE15-10-7886
Sample Info: 124579500311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795007

Client ID: RE15-10-7887
Batch ID: 949033
Run Date: 02/05/2010 10:39
Prep Date: 02/04/2010 20:32
Data File: 021f2101.d
021b2101.d

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.01 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 33
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	4.98	ug/kg	1.66	4.98	1
11104-28-2	Aroclor-1221	U	4.98	ug/kg	1.66	4.98	1
11141-16-5	Aroclor-1232	U	4.98	ug/kg	1.66	4.98	1
53469-21-9	Aroclor-1242	U	4.98	ug/kg	1.66	4.98	1
12672-29-6	Aroclor-1248	U	4.98	ug/kg	1.66	4.98	1
11097-69-1	Aroclor-1254	U	4.98	ug/kg	1.66	4.98	1
11096-82-5	Aroclor-1260	U	4.98	ug/kg	1.66	4.98	1

Data File: /chem/ecdl1a.i/020510.b/021f2101.d
Report Date: 05-Feb-2010 11:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/020510.b/021f2101.d
Lab Smp Id: 245795007 Client Smp ID: RE15-10-7887
Inj Date : 05-FEB-2010 10:39
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |245795007|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7887|||
Comment :
Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m
Meth Date : 05-Feb-2010 11:26 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	33.03920	% Moisture

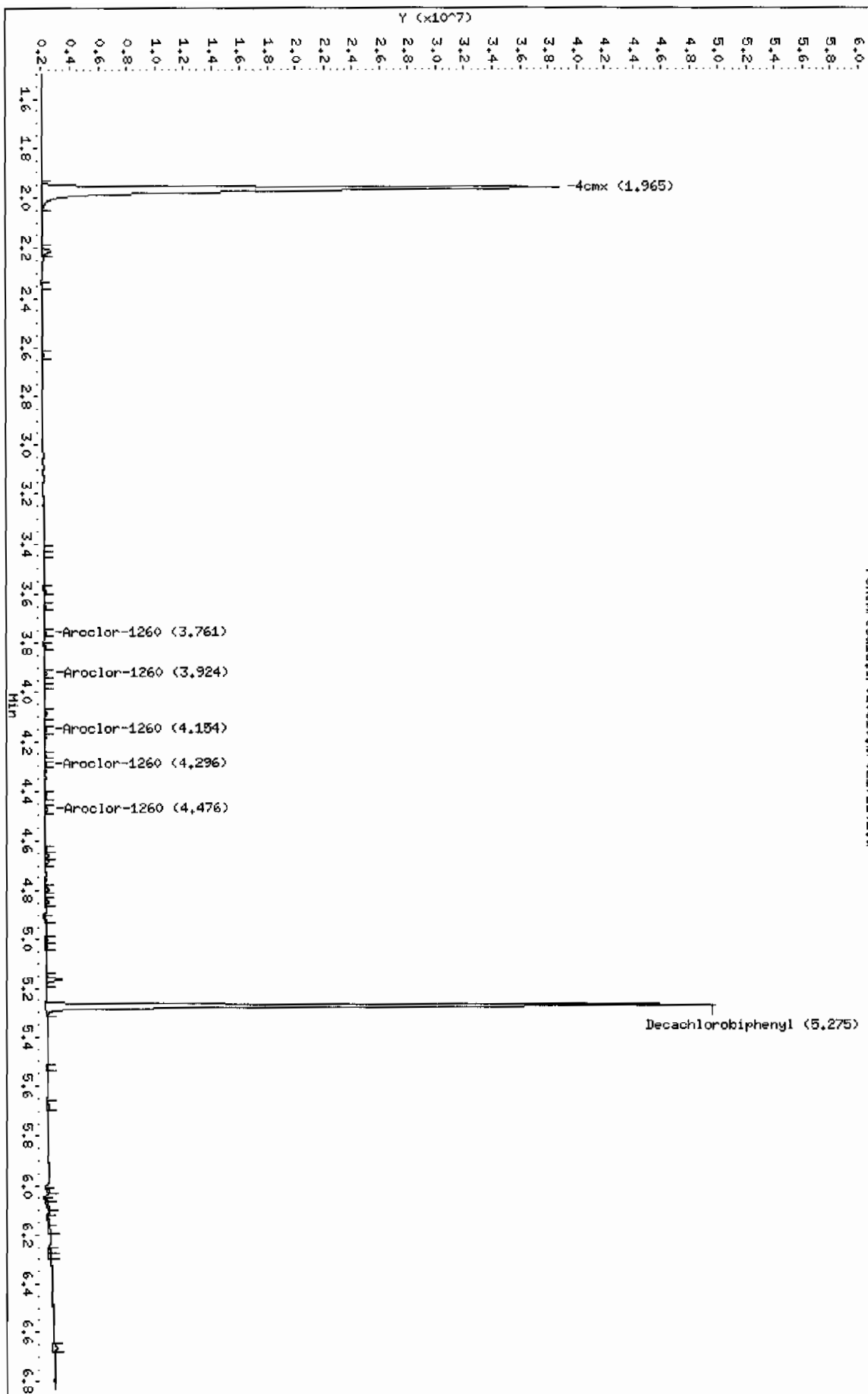
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)			=====
S 11 4cmx CAS #: 877-09 8							
1.965	1.965	0.000	46070157	115.566	5.8	80.00- 120.00	100.00
S 12 Decachlorobiphenyl CAS #: 2051-24-3							
5.275	5.275	0.000	35493900	109.781	5.5	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/020510.b/021f2101.d
Date: 05-FEB-2010 10:39
Client ID: REL5-10-7887
Sample Info: 124579500711
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/020510.b/021f2101.d



Data File: /chem/ecdl1a.i/020510.b/021b2101.d
Report Date: 05-Feb-2010 11:30

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdl1a.i/020510.b/021b2101.d
Lab Smp Id: 245795007 Client Smp ID: RE15-10-7887
Inj Date : 05-FEB-2010 10:39
Operator : YS1 Inst ID: ecd1a.i
Smp Info : |245795007|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7887|||
Comment :
Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
Meth Date : 05-Feb-2010 11:27 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	33.03920	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
2.296	2.296	0.000	32981032	114.819	5.7 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.941	5.942	-0.001	29048840	133.479	6.6 80.00- 120.00	100.00

Data File: /chem/ecdda.i/020510.b/021b2101.d

Date: 05-FEB-2010 10:39

Client ID: RE15-10-7887

Sample Info: 124579500711

Volume Injected (uL): 1.0

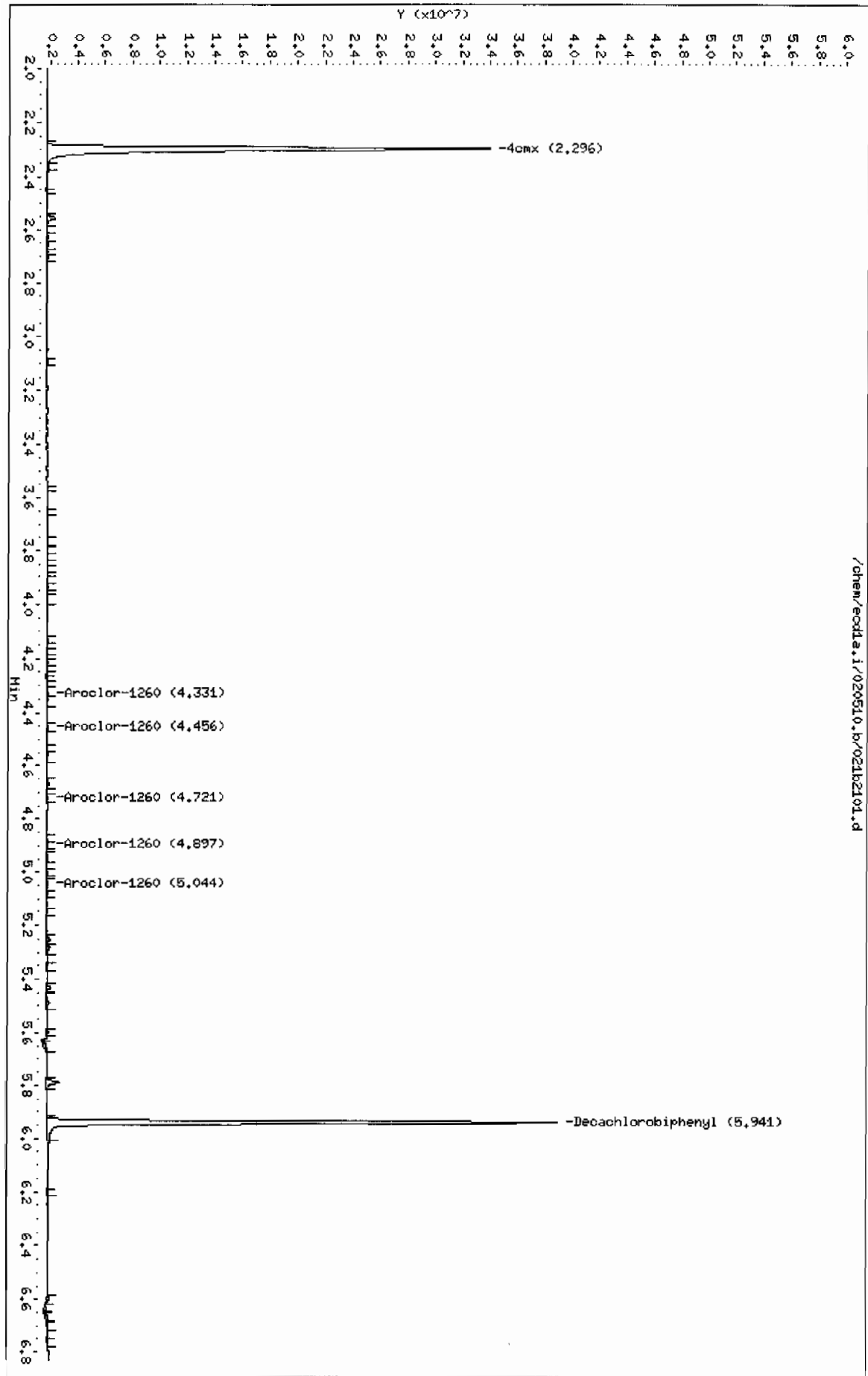
Column phase: CLP2

Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25

/chem/ecdda.i/020510.b/021b2101.d



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795001

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 9.3
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	U	3.67	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	U	3.67	ug/kg	1.22	3.67	1

Data File: /chem/ecdla.i/020510.b/015f1501.d
Report Date: 05-Feb-2010 09:52

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/015f1501.d

Lab Smp Id: 245795001

Client Smp ID: RE15-10-7888

Inj Date : 05-FEB-2010 09:23

Operator : YS1

Inst ID: ecdla.i

Smp Info : |245795001|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7888|

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.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	9.31910	% Moisture

Cpnd Variable

Local Compound Variable

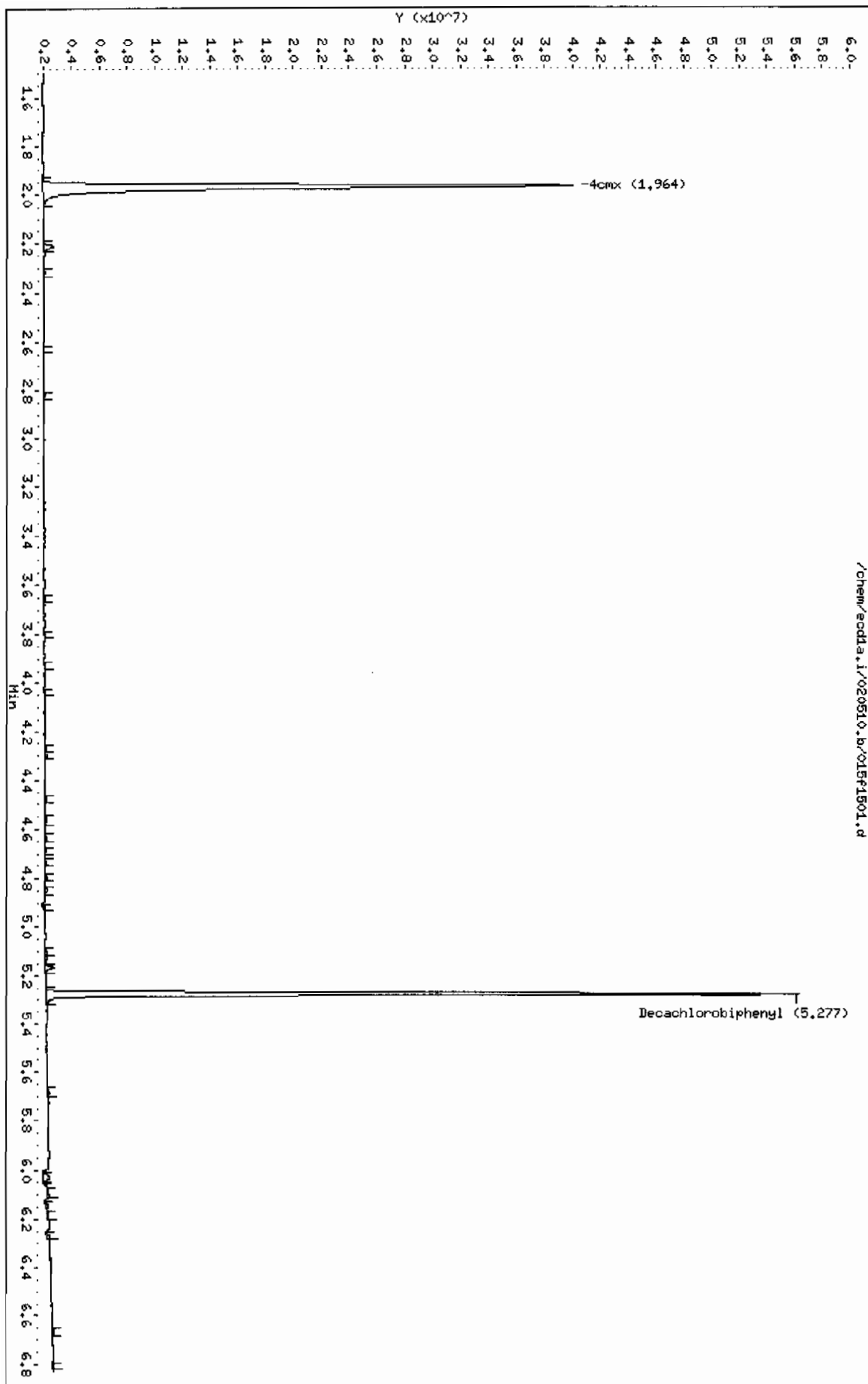
CONCENTRATIONS									
			ON COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8				
1.964	1.965	-0.001	47248654	118.522	4.3	80.00	120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3				
5.277	5.275	0.002	41889715	129.563	4.8	80.00-	120.00	100.00	

Data File: /chem/ecdda.i/020510.b/015F1501.d
Date : 05-FEB-2010 09:23
Client ID: RE15-10-7888
Sample Info: 124579500111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/015b1501.d

Lab Smp Id: 245795001

Client Smp ID: RE15-10-7888

Inj Date : 05-FEB-2010 09:23

Operator : YS1

Inst ID: ecdla.i

Smp Info : |245795001|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7888|||

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 09:40 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	9.31910	% Moisture

Cpnd Variable

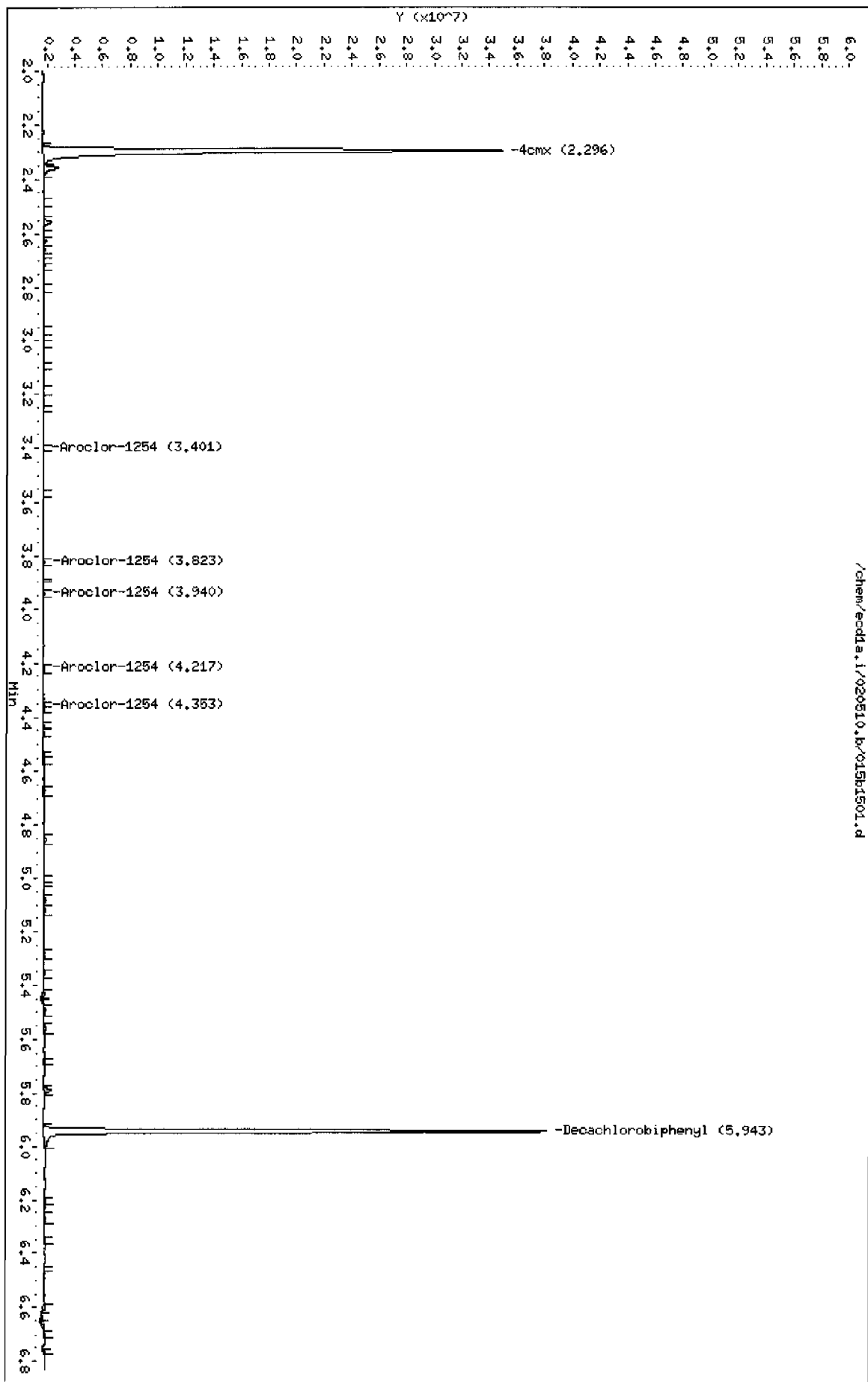
Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8	
2.296	2.296	0.000	33112884	115.278	4.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
5.943	5.942	0.001	28538261	131.133	4.8 80.00- 120.00	100.00

Data File: /chem/ecdda.i/020510.b/015b1501.d
Date : 05-FEB-2010 09:23
Client ID: RE15-10-7888
Sample Info: 124579500111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
 Lab Sample ID: 245795004

Date Collected: 01/26/2010 12:00
 Date Received: 01/29/2010 08:45
 Client: LANL010
 Method: SW846 8082
 Inst: ECD1A.I
 Analyst: YS1
 Aliquot: 30.01 g
 Column: 1 CLP1
 2 CLP2

Matrix: SOIL
 %Moisture: 37.1
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-7889
 Batch ID: 949033
 Run Date: 02/05/2010 10:01
 Prep Date: 02/04/2010 20:32
 Data File: 018f1801.d
 018b1801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	5.30	ug/kg	1.77	5.30	1
11104-28-2	Aroclor-1221	U	5.30	ug/kg	1.77	5.30	1
11141-16-5	Aroclor-1232	U	5.30	ug/kg	1.77	5.30	1
53469-21-9	Aroclor-1242	U	5.30	ug/kg	1.77	5.30	1
12672-29-6	Aroclor-1248	U	5.30	ug/kg	1.77	5.30	1
11097-69-1	Aroclor-1254	P	36.8	ug/kg	1.77	5.30	1
11096-82-5	Aroclor-1260		23.3	ug/kg	1.77	5.30	2
11100-14-4	Aroclor-1268		20.5	ug/kg	1.77	5.30	2

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/020510.b/018f1801.d
Lab Smp Id: 245795004 Client Smp ID: RE15-10-7889
Inj Date : 05-FEB-2010 10:01
Operator : YS1 Inst ID: ecdla.i
Smp Info : |245795004|1|
Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7889|||
Comment :
Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m
Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.sub
Target Version: 3.50 Sample Matrix: Soil
Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	37.14030	% 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			
1.964	1.965	-0.001	47096858	118.141	6.3	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
5.274	5.275	0.001	40708489	125.909	6.7	80.00-	120.00	100.00

6 Aroclor-1254					CAS #: 11097-69-1			
3.264	3.266	-0.002	7058954	565.373	30.0	80.00-	120.00	100.00 (M)
3.419	3.421	-0.002	11060105	661.413	35.1	118.05-	158.05	156.68
3.655	3.655	0.000	12690043	612.633	32.5	160.50-	200.50	179.77
3.815	3.818	-0.003	11067642	705.206	37.4	116.88-	156.88	156.79

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
---	-----	-----	-----	-----	-----	-----	-----
6 Aroclor-1254 (continued)							
3.924	3.926	-0.002	14074388	927.625	49.2	110.22- 150.22	199.38
Average of Peak Concentrations =					36.8		

7 Aroclor 1260					CAS #: 11096 82 5		
3.760	3.762	-0.002	8288640	469.970	24.9	80.00- 120.00	100.00 (M)
3.924	3.925	-0.001	14074388	527.881	28.0	132.59- 172.59	169.80
4.154	4.155	-0.001	6131997	385.136	20.4	71.05- 111.05	73.98
4.294	4.297	-0.003	6260676	378.273	20.0	74.81- 114.81	75.53
4.475	4.477	-0.002	7081910	190.705	10.1	197.56- 237.56	85.44
Average of Peak Concentrations =					20.7		

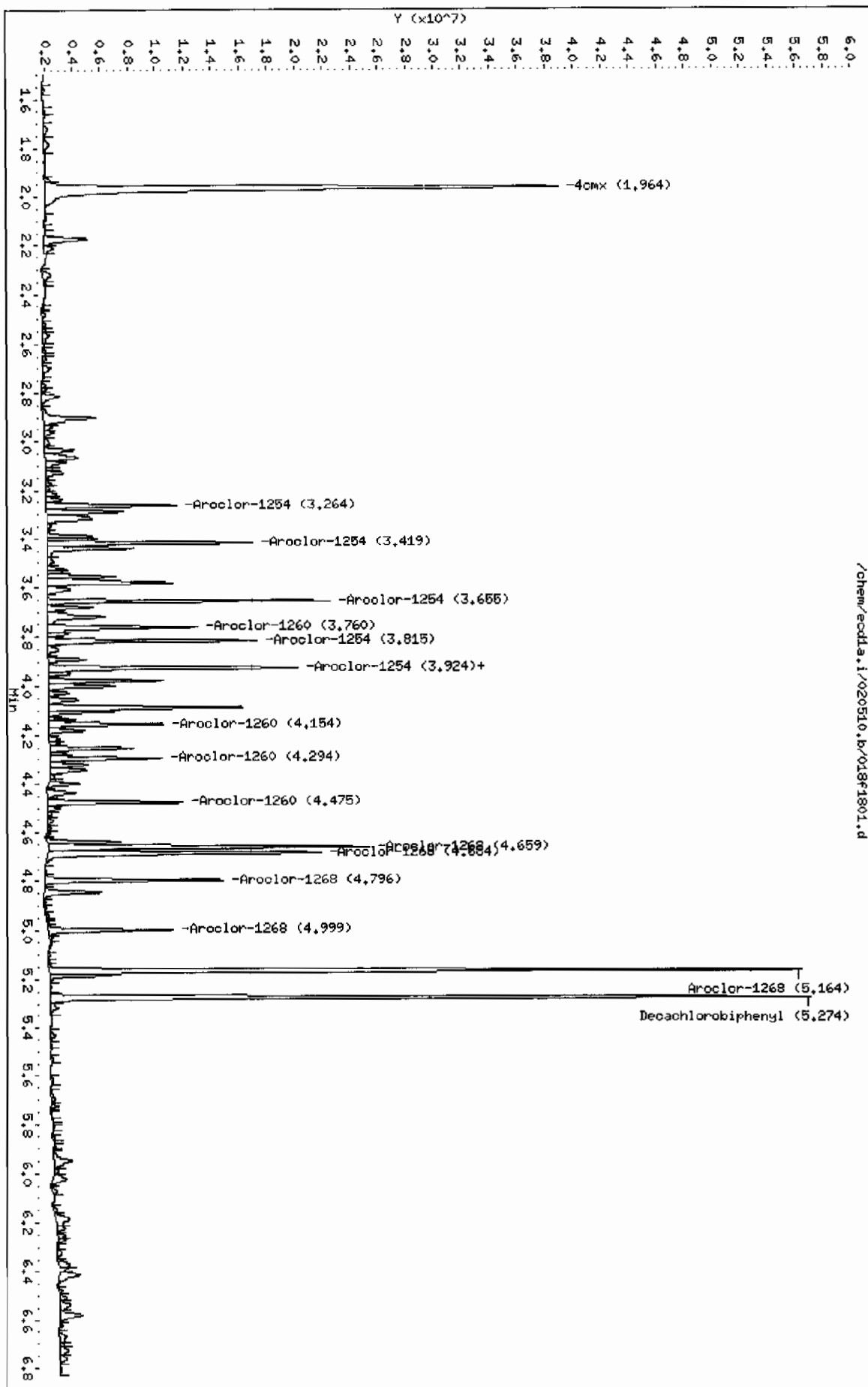
9 Aroclor-1268					CAS #: 11100-14-4		
4.659	4.663	-0.004	16971904	323.367	17.1	80.00- 120.00	100.00
4.684	4.686	-0.002	17880347	371.593	19.7	74.24- 114.24	105.35
4.796	4.799	-0.003	9447332	255.143	13.5	54.84- 94.84	55.66
4.999	5.001	-0.002	6878493	422.142	22.4	17.12- 57.12	40.53
5.164	5.167	-0.003	40107098	370.411	19.6	228.13- 268.13	236.31
Average of Peak Concentrations =					18.5		

QC Flag Legend

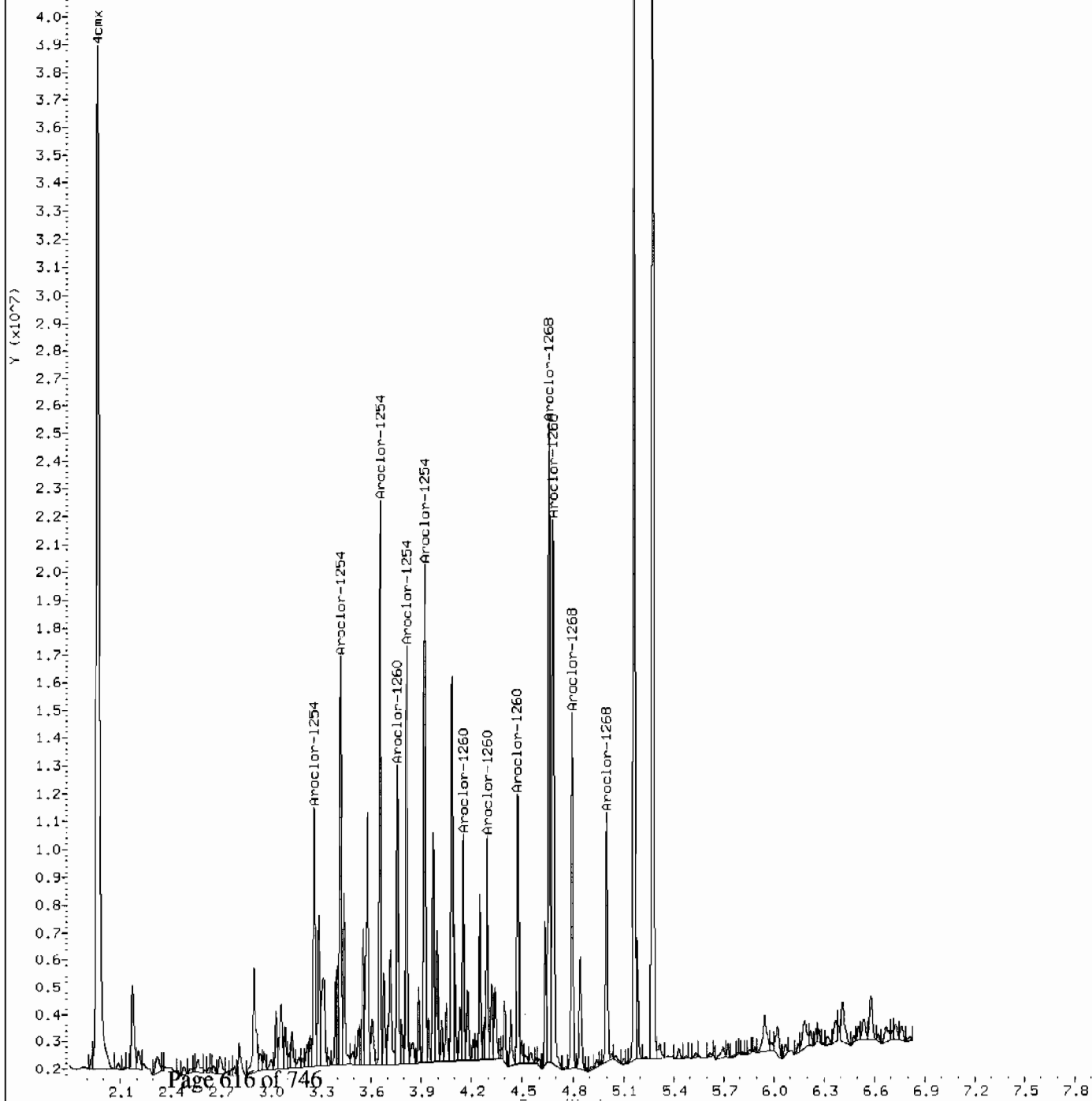
M - Compound response manually integrated.

Data File: /chem/ecdda.i/020510.b/018f1801.d
 Date : 05-FEB-2010 10:04
 Client ID: RE15-10-7889
 Sample Info: 124579500411
 Volume Injected (uL): 1.0
 Column phase: CLP1

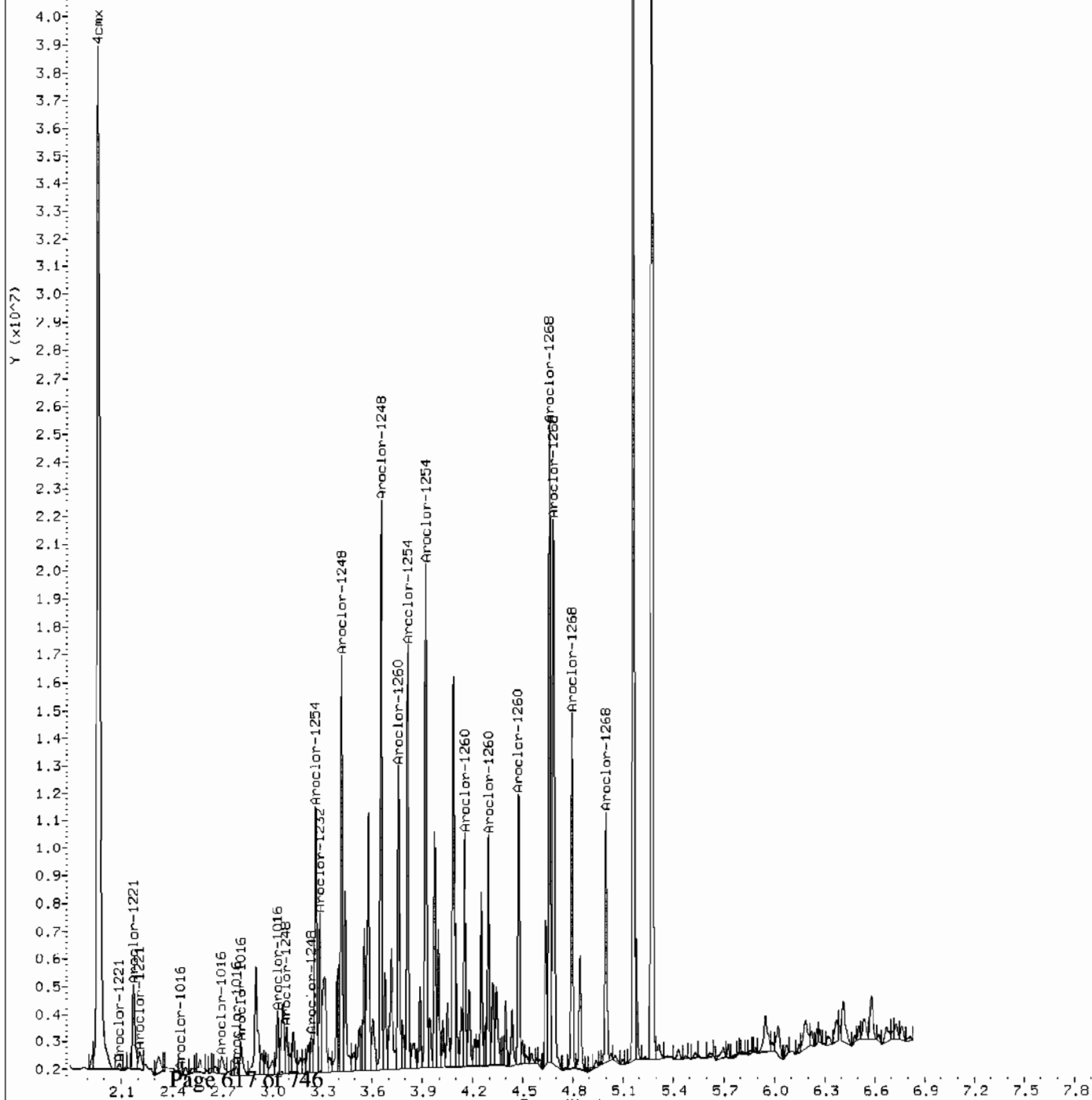
Instrument: ecdda.i
 Operator: YSL
 Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdl1a.i/020510.b/011801.d
Operator: YS1
Injection Date: 05-FEB-2010 10:01
Instrument: ecd1a.i
Client Sample ID: RE15-10-7889



Comment: Before manual integration
Data File: /chem/ecdl1a.i/020510.b/or-018f1801.d
Operator: YS1
Injection Date: 05-FEB-2010 10:01
Instrument: ecd1a.i
Client Sample ID: RE15-10-7889



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/018b1801.d
 Lab Smp Id: 245795004 Client Smp ID: RE15-10-7889
 Inj Date : 05-FEB-2010 10:01
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |245795004|1|
 Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7889|||
 Comment :
 Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
 Meth Date : 08-Feb-2010 09:06 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1470.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	37.14030	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FTNAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)	=====	=====
S 11 4cmx CAS #: 877-09-8						
2.295	2.296	-0.001	33297200	115.920	6.1 80.00- 120.00	100.00
S 12 Decachlorobiphenyl CAS #: 2051-24-3						
5.940	5.942	-0.002	30134215	138.467	7.3 80.00 120.00	100.00
6 Aroclor-1254 CAS #: 11097-69-1						
3.401	3.401	0.000	2176647	338.238	17.9 80.00- 120.00	100.00 (M)
3.821	3.824	-0.003	4578372	396.076	21.0 160.72- 200.72	210.34
3.939	3.940	-0.001	8020274	645.169	34.2 179.44- 219.44	368.47
4.222	4.216	0.006	3074713	182.151	9.6 255.74- 295.74	310.35

CONCENTRATIONS							
		ON COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	-----
6 Aroclor-1254 (continued)							
4.351	4.353	0.002	7551047	607.218	32.2	176.59 216.59	346.91
Average of Peak Concentrations =					23.0		

7 Aroclor-1260					CAS #: 11096-82-5		
4.330	4.332	-0.002	6462419	511.093	27.1	80.00- 120.00	100.00 (M)
4.455	4.457	-0.002	7885830	518.120	27.5	101.42- 141.42	122.03
4.722	4.722	0.000	5905731	506.907	26.9	72.62- 112.62	91.39
4.897	4.896	0.001	5184074	430.088	22.8	76.48- 116.48	80.22
5.042	5.043	-0.001	6039481	231.678	12.3	194.90- 234.90	93.46
Average of Peak Concentrations =					23.3		

9 Aroclor-1268					CAS #: 11100-14-4		
5.254	5.255	-0.001	15614500	430.679	22.8	80.00- 120.00	100.00 (M)
5.282	5.283	-0.001	13513450	402.395	21.3	75.81- 115.81	86.54
5.430	5.433	-0.003	8357266	321.651	17.0	55.31- 95.31	53.52
5.595	5.598	-0.003	3920996	345.564	18.3	17.23- 57.23	25.11
5.789	5.790	-0.001	29270526	436.378	23.1	217.43- 257.43	187.46
Average of Peak Concentrations =					20.5		

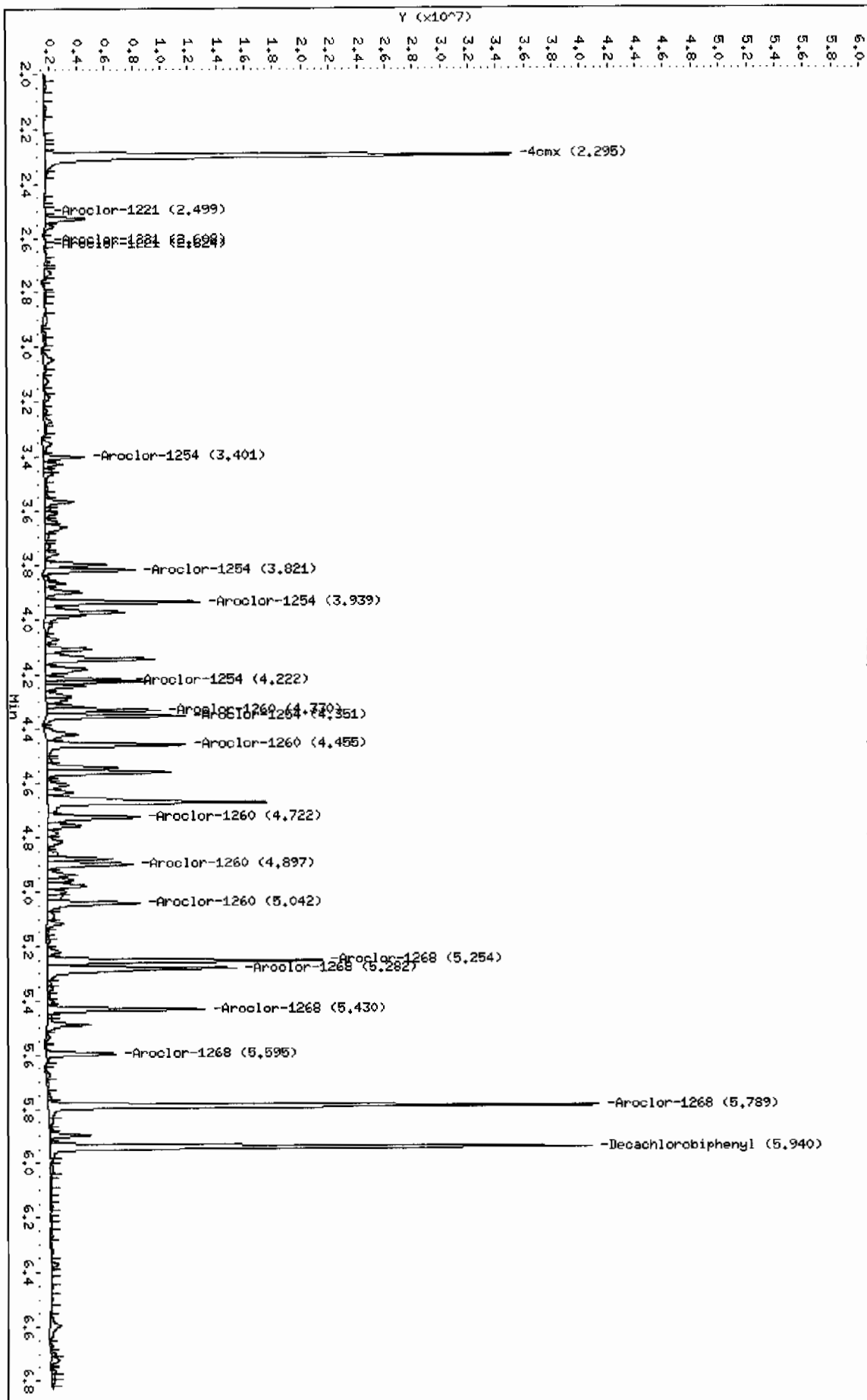
QC Flag Legend

M - Compound response manually integrated.

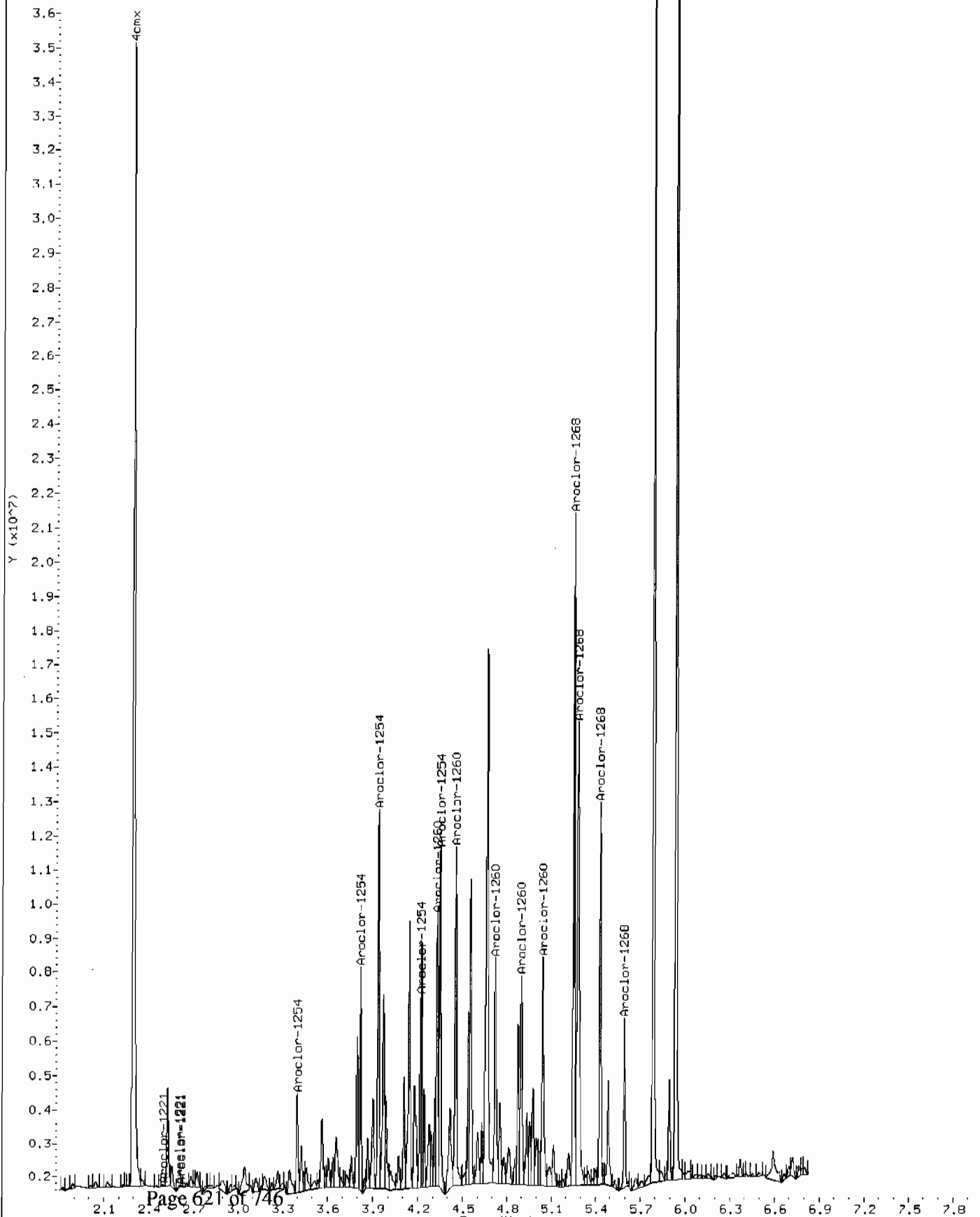
Data File: /chem/ecdda.i/020510.b/018b1801.d
 Date: 05-FEB-2010 10:01
 Client ID: REL5-10-7889
 Sample Info: 124579500411
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdda.i
 Operator: YSL
 Column diameter: 0.25

/chem/ecdda.i/020510.b/018b1801.d

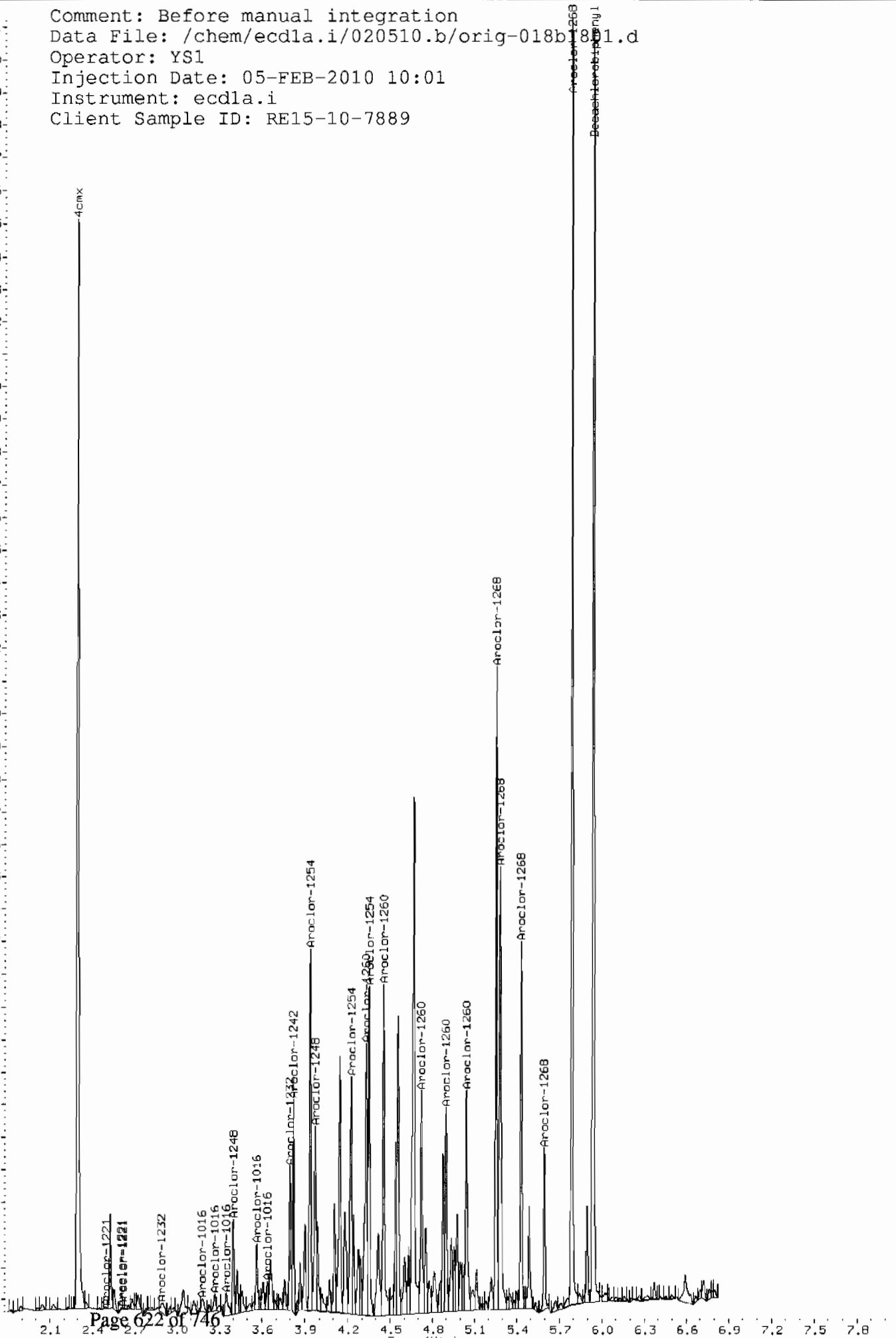


Comment: Manually Integrated
Data File: /chem/ecdl1a.i/020510.b/018b1801.
Operator: YS1
Injection Date: 05-FEB-2010 10:01
Instrument: ecd1a.i
Client Sample ID: RE15-10-7889



Comment: Before manual integration
Data File: /chem/ecdl1.i/020510.b/orig-018b1801.d
Operator: YS1
Injection Date: 05-FEB-2010 10:01
Instrument: ecld1.i
Client Sample ID: RE15-10-7889

Y (x10⁻⁷)



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470
Lab Sample ID: 245795002

Date Collected: 01/26/2010 12:00
Date Received: 01/29/2010 08:45
Client: LANL010
Method: SW846 8082
Inst: ECD1A.I
Analyst: YS1
Aliquot: 30.19 g
Column: 1 CLP1
2 CLP2

Matrix: SOIL
%Moisture: 9.8
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	3.67	ug/kg	1.22	3.67	1
11104-28-2	Aroclor-1221	U	3.67	ug/kg	1.22	3.67	1
11141-16-5	Aroclor-1232	U	3.67	ug/kg	1.22	3.67	1
53469-21-9	Aroclor-1242	U	3.67	ug/kg	1.22	3.67	1
12672-29-6	Aroclor-1248	U	3.67	ug/kg	1.22	3.67	1
11097-69-1	Aroclor-1254	JP	2.90	ug/kg	1.22	3.67	1
11096-82-5	Aroclor-1260	J	3.10	ug/kg	1.22	3.67	2
11100-14-4	Aroclor-1268	P	4.50	ug/kg	1.22	3.67	2

Data File: /chem/ecd1a.i/020510.b/016f1601.d
Report Date: 12-Feb-2010 12:55

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/016f1601.d

Lab Smp Id: 245795002

Client Smp ID: RE15-10-7890

Inj Date : 05-FEB-2010 09:36

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245795002|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7890|||

Comment :

Method : /chem/ecd1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.sub

Target Version: 3.50

Sample Matrix: Soil

Processing Host: hpc1pl

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.19000	Weight of sample extracted (g)
M	9.80970	% 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		
1.964	1.965	0.001	49631587	124.499	4.6 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.275	5.275	0.000	35341886	109.311	4.0 80.00- 120.00	100.00

6 Aroclor-1254				CAS #: 11097-69-1		
3.264	3.266	-0.002	688841	55.1714	2.0 80.00- 120.00	100.00(a)
3.419	3.421	-0.002	1134809	67.8635	2.5 118.05- 158.05	164.74
3.652	3.655	-0.003	1486600	71.7682	2.6 160.50- 200.50	215.81
3.816	3.818	-0.002	1230573	78.4094	2.9 116.88- 156.88	178.64

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON COL	FINAL	TARGET RANGE
==	=====	=====	=====	=====	=====	=====
6 Aroclor-1254 (continued)						
3.924	3.926	-0.002	1794877	118.298	4.3	110.22- 150.22
Average of Peak Concentrations =					2.9	260.56

7 Aroclor-1260				CAS #: 11096-82-5		
3.761	3.762	-0.001	1093670	62.0116	2.3	80.00- 120.00
3.924	3.925	-0.001	1794877	67.3196	2.5	132.59- 172.59
4.154	4.155	-0.001	1446279	90.8373	3.3	71.05- 111.05
4.296	4.297	-0.001	2172696	131.275	4.8	74.81- 114.81
4.476	4.477	-0.001	1471928	39.6368	1.4	197.56- 237.56
Average of Peak Concentrations =					2.9	134.59

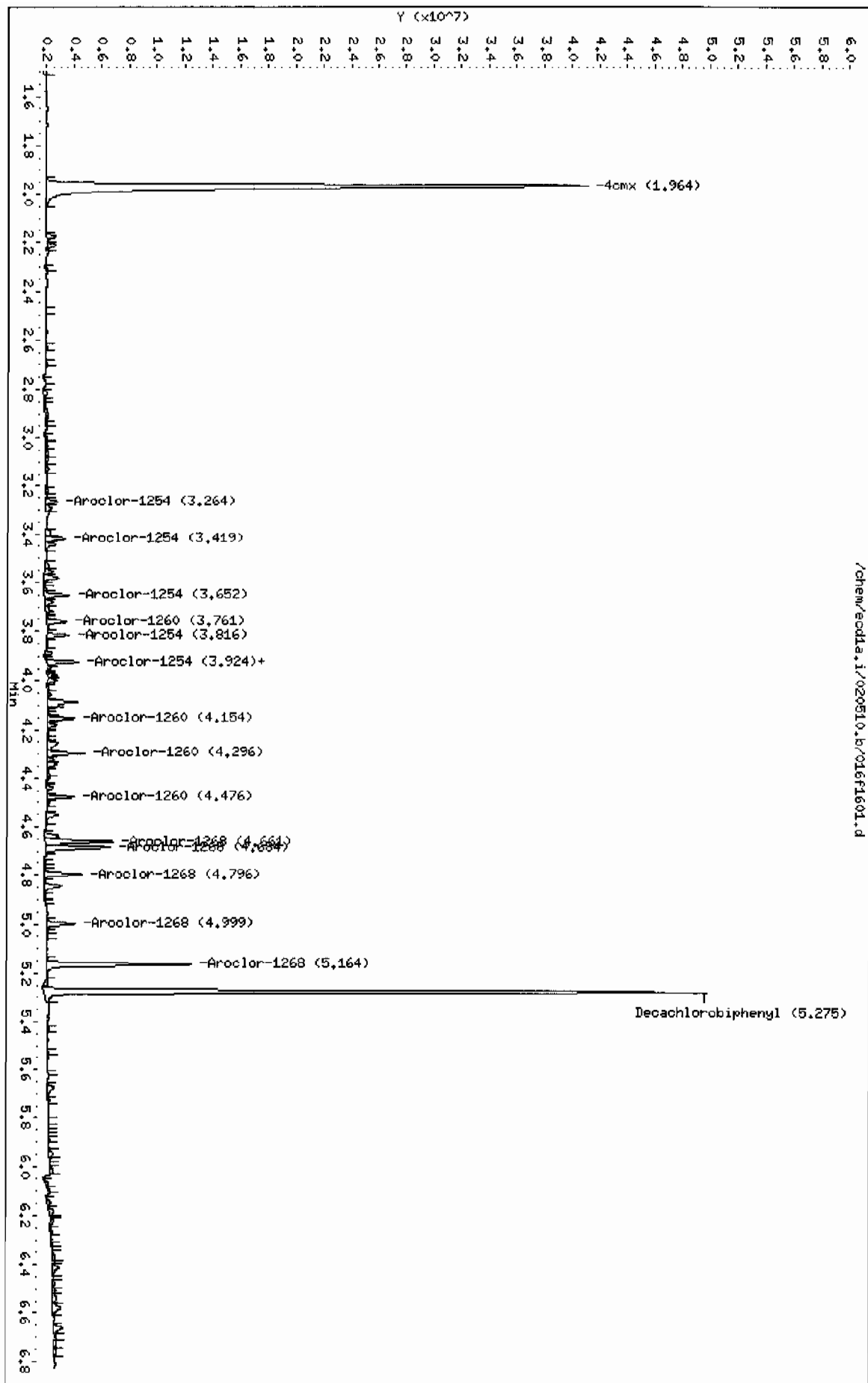
9 Aroclor-1268				CAS #: 11100-14-4		
4.661	4.663	-0.002	3797269	72.3496	2.6	80.00- 120.00
4.684	4.686	0.002	4485155	93.2114	3.4	74.24- 114.24
4.796	4.799	-0.003	2238167	60.4460	2.2	54.84- 94.84
4.999	5.001	-0.002	1754406	107.670	4.0	17.12- 57.12
5.164	5.167	-0.003	8373786	77.3364	2.8	228.13- 268.13
Average of Peak Concentrations =					3.0	220.52

QC Flag Legend

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

Data File: /chem/ecdl1.i/020510.b/016f1601.d
Date: 08-FEB-2010 09:36
Client ID: RE15-10-7890
Sample Info: 124579500211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSI
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/016b1601.d

Lab Smp Id: 245795002

Client Smp ID: RE15-10-7890

Inj Date : 05-FEB-2010 09:36

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |245795002|1|

Misc Info : |ECD82P_1S|949033|SVA|LANL|SOIL|RE15-10-7890|||

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 16

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.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	30.19000	Weight of sample extracted (g)
M	9.80970	% 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		
2.296	2.296	0.000	35626057	124.027	4.6 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.940	5.942	-0.002	30984321	142.373	5.2 80.00 120.00	100.00

6 Aroclor-1254				CAS #: 11097 69-1		
3.401	3.401	0.000	279753	43.4720	1.6 80.00- 120.00	100.00(a)
3.821	3.824	-0.003	489971	42.3876	1.6 160.72- 200.72	175.14
3.938	3.940	-0.002	815016	65.5617	2.4 179.44 219.44	291.33
4.216	4.216	0.000	656380	38.8850	1.4 255.74 295.74	234.63

CONCENTRATIONS									
				ON-COL	FINAL				
RT	EXP RT	DUT RT	RT	RESPONSE (ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
6 Aroclor-1254 (continued)									
4.351	4.353	-0.002		771406 62.0328	2.3	176.59	216.59	275.75	
Average of Peak Concentrations =					1.8				

7 Aroclor-1260					CAS #: 11096-82-5				
4.331	4.332	0.001		1095286 86.6229	3.2	80.00	120.00	100.00(a)	
4.456	4.457	-0.001		1228701 80.7289	3.0	101.42	141.42	112.18	
4.721	4.722	-0.001		1270999 109.094	4.0	72.62	112.62	116.04	
4.897	4.896	0.001		1145151 95.0055	3.5	76.48	116.48	104.55	
5.042	5.043	-0.001		1219505 46.7810	1.7	194.90	234.90	111.34	
Average of Peak Concentrations =					3.1				

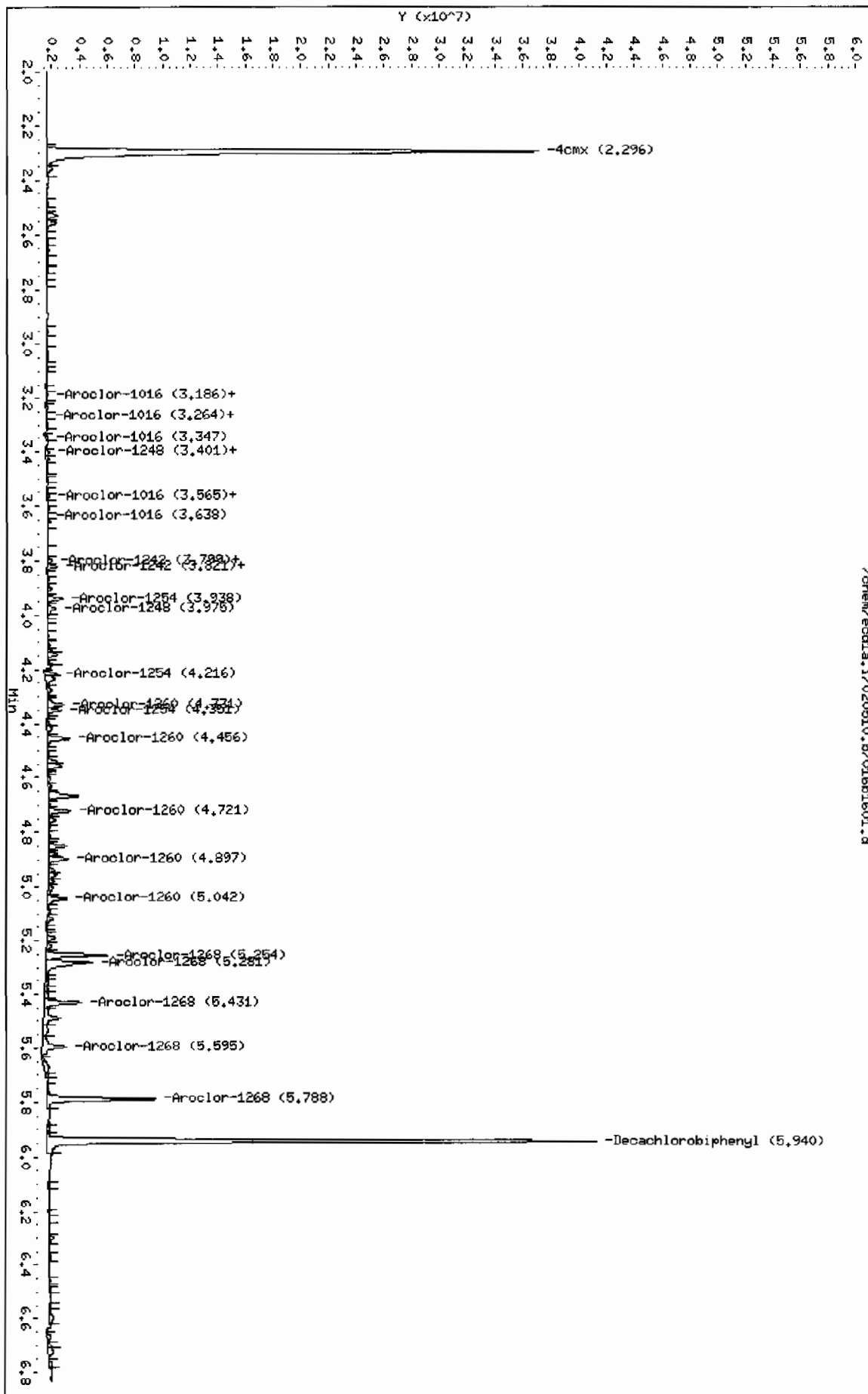
9 Aroclor-1268					CAS #: 11100-14-4				
5.254	5.255	-0.001		3633276 100.213	3.7	80.00	120.00	100.00	
5.281	5.283	-0.002		3828271 113.996	4.2	75.81	115.81	105.37	
5.431	5.433	-0.002		2384375 91.7689	3.4	55.31	95.31	65.63	
5.595	5.598	-0.003		2432411 214.372	7.9	17.23	57.23	66.95	
5.788	5.790	-0.002		6355445 94.7498	3.5	217.43	257.43	174.92	
Average of Peak Concentrations =					4.5				

QC Flag Legend

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

Data File: /chem/ecdda.i/020510.b/016b1601.d
 Date: 05-FEB-2010 09:36
 Client ID: RELS-10-7890
 Sample Info: 124579500211
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdda.i
 Operator: YSL
 Column diameter: 0.25



STANDARDS DATA

Report Date: 08-Feb-2010 09:31

Calibration History

Method : /chem/ecd1a.i/020510.b/ECD1-F-8082-121409.m
Start Cal Date: 14-DEC-2009 05:36
End Cal Date : 29-JAN-2010 08:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecd1a.i/012210.b/013f1301.d
22-JAN-2010 06:48	AR1232	/chem/ecd1a.i/012210.b/006f0601.d
28-JAN-2010 12:18	AR1268	/chem/ecd1a.i/012810a.b/018f1801.d
14-DEC-2009 09:28	AR1248	/chem/ecd1a.i/121409.b/028f2801.d
14-DEC-2009 08:25	AR1242	/chem/ecd1a.i/121409.b/022f2201.d
14-DEC-2009 07:22	AR1254	/chem/ecd1a.i/121409.b/016f1601.d
29-JAN-2010 07:46	AR1660	/chem/ecd1a.i/012910.b/010f1001.d
Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecd1a.i/012210.b/014f1401.d
22-JAN-2010 06:58	AR1232	/chem/ecd1a.i/012210.b/007f0701.d
28-JAN-2010 12:29	AR1268	/chem/ecd1a.i/012810a.b/019f1901.d
14-DEC-2009 09:38	AR1248	/chem/ecd1a.i/121409.b/029f2901.d
14-DEC-2009 08:35	AR1242	/chem/ecd1a.i/121409.b/023f2301.d
14-DEC-2009 07:32	AR1254	/chem/ecd1a.i/121409.b/017f1701.d
29-JAN-2010 07:57	AR1660	/chem/ecd1a.i/012910.b/011f1101.d
Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecd1a.i/012210.b/015f1501.d
22-JAN-2010 07:09	AR1232	/chem/ecd1a.i/012210.b/008f0801.d
28-JAN-2010 12:39	AR1268	/chem/ecd1a.i/012810a.b/020f2001.d
14-DEC-2009 09:49	AR1248	/chem/ecd1a.i/121409.b/030f3001.d
14-DEC-2009 08:46	AR1242	/chem/ecd1a.i/121409.b/024f2401.d
14-DEC-2009 07:43	AR1254	/chem/ecd1a.i/121409.b/018f1801.d
29-JAN-2010 08:07	AR1660	/chem/ecd1a.i/012910.b/012f1201.d
Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecd1a.i/121409.b/046f4601.d
14-DEC-2009 09:59	AR1248	/chem/ecd1a.i/121409.b/031f3101.d
14-DEC-2009 08:56	AR1242	/chem/ecd1a.i/121409.b/025f2501.d
14-DEC-2009 07:53	AR1254	/chem/ecd1a.i/121409.b/019f1901.d
29-JAN-2010 08:18	AR1660	/chem/ecd1a.i/012910.b/013f1301.d
28-JAN-2010 12:50	AR1268	/chem/ecd1a.i/012810a.b/021f2101.d
22-JAN-2010 08:36	AR1262	/chem/ecd1a.i/012210.b/016f1601.d
14-DEC-2009 05:47	AR1221	/chem/ecd1a.i/121409.b/007f0701.d
22-JAN-2010 07:19	AR1232	/chem/ecd1a.i/012210.b/009f0901.d
Cal Level: 5 , Cal Amount: 4000.00000		

22-JAN-2010 08:47	AR1262	/chem/ecdla.i/012210.b/017f1701.d
22-JAN-2010 07:30	AR1232	/chem/ecdla.i/012210.b/010f1001.d
28-JAN-2010 13:00	AR1268	/chem/ecdla.i/012810a.b/022f2201.d
14-DEC-2009 10:10	AR1248	/chem/ecdla.i/121409.b/032f3201.d
14-DEC-2009 09:07	AR1242	/chem/ecdla.i/121409.b/026f2601.d
14-DEC-2009 08:04	AR1254	/chem/ecdla.i/121409.b/020f2001.d
29-JAN-2010 08:59	AR1660	/chem/ecdla.i/012910.b/014f1401.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 15:29	AR1660	/chem/ecdla.i/020510.b/046f4601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 14:05	AR1660	/chem/ecdla.i/020510.b/038f3801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 12:40	AR1660	/chem/ecdla.i/020510.b/031f3101.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 10:51	AR1660	/chem/ecdla.i/020510.b/022f2201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:20	AR1268	/chem/ecdla.i/020510.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:59	AR1221	/chem/ecdla.i/020510.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:48	AR1232	/chem/ecdla.i/020510.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:38	AR1248	/chem/ecdla.i/020510.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:27	AR1242	/chem/ecdla.i/020510.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:17	AR1254	/chem/ecdla.i/020510.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:06	AR1660	/chem/ecdla.i/020510.b/002f0201.d

Report Date: 08-Feb-2010 09:45

Calibration History

Method : /chem/ecd1a.i/020510.b/ECD1-B-8082-121409.m
Start Cal Date: 11-DEC-2009 10:17
End Cal Date : 29-JAN-2010 08:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
22-JAN-2010 08:01	AR1262	/chem/ecd1a.i/012210.b/013b1301.d
22-JAN-2010 06:48	AR1232	/chem/ecd1a.i/012210.b/006b0601.d
28-JAN-2010 12:18	AR1268	/chem/ecd1a.i/012810a.b/018b1801.d
14-DEC-2009 09:28	AR1248	/chem/ecd1a.i/121409.b/028b2801.d
14-DEC-2009 08:25	AR1242	/chem/ecd1a.i/121409.b/022b2201.d
14-DEC-2009 07:22	AR1254	/chem/ecd1a.i/121409.b/016b1601.d
29-JAN-2010 07:46	AR1660	/chem/ecd1a.i/012910.b/010b1001.d

Cal Level: 2 , Cal Amount: 250.00000		
22-JAN-2010 08:12	AR1262	/chem/ecd1a.i/012210.b/014b1401.d
22-JAN-2010 06:58	AR1232	/chem/ecd1a.i/012210.b/007b0701.d
28-JAN-2010 12:29	AR1268	/chem/ecd1a.i/012810a.b/019b1901.d
14-DEC-2009 09:38	AR1248	/chem/ecd1a.i/121409.b/029b2901.d
14-DEC-2009 08:35	AR1242	/chem/ecd1a.i/121409.b/023b2301.d
14-DEC-2009 07:32	AR1254	/chem/ecd1a.i/121409.b/017b1701.d
29-JAN-2010 07:57	AR1660	/chem/ecd1a.i/012910.b/011b1101.d

Cal Level: 3 , Cal Amount: 500.00000		
22-JAN-2010 08:22	AR1262	/chem/ecd1a.i/012210.b/015b1501.d
22-JAN-2010 07:09	AR1232	/chem/ecd1a.i/012210.b/008b0801.d
28-JAN-2010 12:39	AR1268	/chem/ecd1a.i/012810a.b/020b2001.d
14-DEC-2009 09:49	AR1248	/chem/ecd1a.i/121409.b/030b3001.d
14-DEC-2009 08:46	AR1242	/chem/ecd1a.i/121409.b/024b2401.d
14-DEC-2009 07:43	AR1254	/chem/ecd1a.i/121409.b/018b1801.d
29-JAN-2010 08:07	AR1660	/chem/ecd1a.i/012910.b/012b1201.d

Cal Level: 4 , Cal Amount: 1000.00000		
14-DEC-2009 12:37	DDTANALOGSTD	/chem/ecd1a.i/121409.b/046b4601.d
28-JAN-2010 12:50	AR1268	/chem/ecd1a.i/012810a.b/021b2101.d
22-JAN-2010 08:36	AR1262	/chem/ecd1a.i/012210.b/016b1601.d
14-DEC-2009 05:47	AR1221	/chem/ecd1a.i/121409.b/007b0701.d
22-JAN-2010 07:19	AR1232	/chem/ecd1a.i/012210.b/009b0901.d
14-DEC-2009 09:59	AR1248	/chem/ecd1a.i/121409.b/031b3101.d
14-DEC-2009 08:56	AR1242	/chem/ecd1a.i/121409.b/025b2501.d
14-DEC-2009 07:53	AR1254	/chem/ecd1a.i/121409.b/019b1901.d
29-JAN-2010 08:18	AR1660	/chem/ecd1a.i/012910.b/013b1301.d

Cal Level: 5 , Cal Amount: 4000.00000		
22-JAN-2010 08:47	AR1262	/chem/ecd1a.i/012210.b/017b1701.d
22-JAN-2010 07:30	AR1232	/chem/ecd1a.i/012210.b/010b1001.d
28-JAN-2010 13:00	AR1268	/chem/ecd1a.i/012810a.b/022b2201.d
14-DEC-2009 10:10	AR1248	/chem/ecd1a.i/121409.b/032b3201.d
14-DEC-2009 09:07	AR1242	/chem/ecd1a.i/121409.b/026b2601.d

29-JAN-2010 08:59	AR1660	/chem/ecdl1a.i/012910.b/014b1401.d
Continuing Calibration		
Ccal Level Mode: GLOBAL LEVEL 4		
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 15:29	AR1660	/chem/ecdl1a.i/020510.b/046b4601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 14:05	AR1660	/chem/ecdl1a.i/020510.b/038b3801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 12:40	AR1660	/chem/ecdl1a.i/020510.b/031b3101.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 10:51	AR1660	/chem/ecdl1a.i/020510.b/022b2201.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:38	AR1248	/chem/ecdl1a.i/020510.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:20	AR1268	/chem/ecdl1a.i/020510.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:59	AR1221	/chem/ecdl1a.i/020510.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:48	AR1232	/chem/ecdl1a.i/020510.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 08:09	AR1262	/chem/ecdl1a.i/020510.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:27	AR1242	/chem/ecdl1a.i/020510.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:17	AR1254	/chem/ecdl1a.i/020510.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
05-FEB-2010 07:06	AR1660	/chem/ecdl1a.i/020510.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m
Quant Method : ESTD Target Version : 3.50
Last Update : 08-Feb-2010 09:06 Number of Cpnds : 15
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

Initial:Start Threshold 12031.000000
Initial:End Threshold 6015.500000
Initial:Area Threshold 15489.000000
Initial:P-P Resolution 1.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	2.419	2.389-2.449	1.466e+04
	2.707	2.677-2.737	1.832e+04
	2.788	2.758-2.818	1.202e+04
	2.826	2.796-2.856	7.180e+03
	3.036	3.006-3.066	9.290e+03
63 4,4-DDD	3.953	3.933-3.973	3.938e+05
64 4,4-DDE	3.603	3.583-3.623	4.795e+05
62 4,4-DDT	4.118	4.098-4.138	3.238e+05
2 Aroclor-1221	2.077	2.047-2.107	4.301e+03
	2.170	2.140-2.200	2.440e+03
	2.195	2.165-2.225	1.027e+04
3 Aroclor-1232	2.421	2.391-2.451	6.849e+03
	2.709	2.679-2.739	8.426e+03
	2.789	2.759-2.819	5.627e+03
	3.038	3.008-3.068	3.983e+03
	3.291	3.261-3.321	3.858e+03
4 Aroclor-1242	2.420	2.390-2.450	1.166e+04
	2.708	2.678-2.738	1.345e+04
	2.826	2.796-2.856	5.506e+03
	3.037	3.007-3.067	7.245e+03
	3.290	3.260-3.320	6.811e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.088	3.058-3.118	7.848e+03
	3.240	3.210-3.270	6.870e+03
	3.291	3.261-3.321	1.331e+04
	3.422	3.392-3.452	1.101e+04
	3.655	3.625-3.685	7.455e+03
6 Aroclor-1254	3.266	3.236-3.296	1.249e+04
	3.421	3.391-3.451	1.672e+04
	3.655	3.625-3.685	2.071e+04
	3.818	3.788-3.848	1.569e+04
	3.926	3.896-3.956	1.517e+04
7 Aroclor-1260	3.762	3.732-3.792	1.764e+04
	3.925	3.895-3.955	2.666e+04
	4.155	4.125-4.185	1.592e+04
	4.297	4.267-4.327	1.655e+04
	4.477	4.447-4.507	3.714e+04
8 Aroclor-1262	3.763	3.733-3.793	1.500e+04
	3.926	3.896-3.956	2.038e+04
	4.156	4.126-4.186	2.520e+04
	4.299	4.269-4.329	2.299e+04
	4.478	4.448-4.508	4.717e+04
9 Aroclor-1268	4.663	4.633-4.693	5.248e+04
	4.686	4.656-4.716	4.812e+04
	4.799	4.769-4.829	3.703e+04
	5.001	4.971-5.031	1.629e+04
	5.167	5.137-5.197	1.083e+05
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	1.965	1.935-1.995	3.986e+05
\$ 12 Decachlorobiphenyl	5.275	5.245-5.305	3.233e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 08-Feb-2010 09:06 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 7222.000000
 Initial:End Threshold 3611.000000
 Initial:Area Threshold 6833.000000
 Initial:P-P Resolution 0.000000
 Initial:Bunch Factor 2.000000
 Initial:Negative Peaks OFF
 Initial:Tension 0.500000

Compound	RT	RT Window	RF
1 Aroclor-1016	3.192	3.162-3.222	1.248e+04
	3.275	3.245-3.305	8.547e+03
	3.339	3.309-3.369	5.291e+03
	3.565	3.535-3.595	6.814e+03
	3.641	3.611-3.671	6.405e+03
62 4,4-DDT	4.670	4.650-4.690	2.436e+05
63 4,4-DDE	4.139	4.119-4.159	3.580e+05
64 4,4-DDD	4.483	4.463-4.503	2.893e+05
2 Aroclor-1221	2.492	2.462-2.522	3.640e+03
	2.586	2.556-2.616	2.329e+03
	2.627	2.597-2.657	8.119e+03
3 Aroclor-1232	2.895	2.865-2.925	5.892e+03
	3.193	3.163-3.223	6.222e+03
	3.276	3.246-3.306	4.345e+03
	3.567	3.537-3.597	3.111e+03
4 Aroclor-1242	3.800	3.770-3.830	3.193e+03
	3.192	3.162-3.222	1.059e+04
	3.275	3.245-3.305	8.054e+03
	3.566	3.536-3.596	5.962e+03
	3.800	3.770-3.830	6.057e+03
	3.828	3.798-3.858	6.701e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Compound	RT	RT Window	RF
5 Aroclor-1248	3.401	3.371-3.431	8.054e+03
	3.566	3.536-3.596	9.874e+03
	3.800	3.770-3.830	1.122e+04
	3.827	3.797-3.857	1.248e+04
	3.965	3.935-3.995	1.210e+04
6 Aroclor-1254	3.401	3.371-3.431	6.435e+03
	3.824	3.794-3.854	1.156e+04
	3.940	3.910-3.970	1.243e+04
	4.216	4.186-4.246	1.688e+04
	4.353	4.323-4.383	1.244e+04
7 Aroclor-1260	4.332	4.302-4.362	1.264e+04
	4.457	4.427-4.487	1.522e+04
	4.722	4.692-4.752	1.165e+04
	4.896	4.866-4.926	1.205e+04
	5.043	5.013-5.073	2.607e+04
8 Aroclor-1262	4.457	4.427-4.487	1.356e+04
	4.723	4.693-4.753	1.889e+04
	4.897	4.867-4.927	1.747e+04
	5.044	5.014-5.074	3.453e+04
	5.257	5.227-5.287	2.487e+04
9 Aroclor-1268	5.255	5.225-5.285	3.626e+04
	5.283	5.253-5.313	3.358e+04
	5.433	5.403-5.463	2.598e+04
	5.598	5.568-5.628	1.135e+04
	5.790	5.760-5.820	6.708e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.296	2.266-2.326	2.872e+05
\$ 12 Decachlorobiphenyl	5.942	5.912-5.972	2.176e+05

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 29-JAN-2010 08:59
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m
 Cal Date : 08-Feb-2010 09:06 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdl1a.i/012210.b/013f1301.d
 Level 2: /chem/ecdl1a.i/012210.b/014f1401.d
 Level 3: /chem/ecdl1a.i/012210.b/015f1501.d
 Level 4: /chem/ecdl1a.i/121409.b/046f4601.d
 Level 5: /chem/ecdl1a.i/012210.b/017f1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	17274	15624	14668	13618	12110	14659	13.365
(2)	20414	18506	18422	17664	16607	18323	7.617
(3)	13811	12507	11857	11466	10478	12024	10.320
(4)	8094	7393	7100	6874	6439	7180	8.612
(5)	10520	9736	9158	8813	8222	9290	9.475
63 4,4-DDD	+++++	+++++	+++++	393799	+++++	393799	0.000
64 4,4-DDE	+++++	+++++	+++++	479509	+++++	479509	0.000
62 4,4-DDT	+++++	+++++	+++++	323817	+++++	323817	0.000
2 Aroclor-1221(1)	+++++	+++++	+++++	4301	+++++	4301	0.000
(2)	+++++	+++++	+++++	2440	+++++	2440	0.000
(3)	+++++	+++++	+++++	10272	+++++	10272	0.000
3 Aroclor-1232(1)	8031	7459	6765	6313	5679	6849	13.524
(2)	9246	8871	8229	8095	7686	8426	7.427
(3)	6376	6076	5599	5256	4827	5627	11.031
(4)	4642	4328	3905	3655	3384	3983	12.710
(5)	4445	4061	3757	3587	3443	3858	10.378
4 Aroclor-1242(1)	13692	12467	11522	10819	9798	11660	12.846
(2)	14782	14429	13236	12555	12263	13453	8.301
(3)	6076	5890	5423	5191	4949	5506	8.563
(4)	8395	7578	7079	6747	6426	7245	10.645
(5)	7587	7189	6604	6378	6296	6811	8.178
5 Aroclor-1248(1)	9070	8103	7743	7247	7078	7848	10.119
(2)	7785	7181	6827	6444	6114	6870	9.456
(3)	15108	13267	13037	12915	12225	13310	8.094
(4)	12682	11331	10815	10392	9852	11015	9.799
(5)	8605	7806	7405	7124	6336	7455	11.244

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2009 05:36
 End Cal Date : 29-JAN-2010 08:59
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m
 Cal Date : 08-Feb-2010 09:06 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	14281	12975	12313	11911	10947	12485	9.963
(2)	18803	17181	16666	15949	15010	16722	8.494
(3)	22492	20906	20786	20326	19059	20714	5.957
(4)	16753	15627	15809	15513	14770	15694	4.535
(5)	16595	15169	15433	15075	13591	15172	7.071
7 Aroclor-1260(1)	19303	18084	17596	17320	15881	17637	7.037
(2)	28906	27177	26621	26372	24235	26662	6.298
(3)	17466	16264	15774	15593	14511	15922	6.750
(4)	17694	16895	16487	16357	15325	16551	5.206
(5)	38673	37803	37114	37178	34909	37135	3.753
8 Aroclor-1262(1)	16796	15375	14585	14470	13775	15000	7.687
(2)	22563	20964	19865	19587	18936	20383	6.975
(3)	27641	25661	24522	24605	23554	25197	6.179
(4)	25047	23378	22465	22352	21708	22989	5.624
(5)	49563	47861	46825	46728	44852	47166	3.655
9 Aroclor 1268(1)	55111	53385	52967	52495	48466	52485	4.676
(2)	51014	48609	47960	48222	44786	48118	4.620
(3)	39244	37391	36973	36968	34562	37028	4.505
(4)	17802	16531	16072	16029	15038	16294	6.158
(5)	113064	109648	108755	109096	100824	108277	4.162
M 10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 4cmx	416570	402663	398822	398666	376523	398649	3.607
12 Decachlorobiphenyl	349811	330143	318231	316573	301823	323316	5.537

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 29-JAN-2010 08:59
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdla.i/020510.b/ECD1-B-8082-121409.m
 Cal Date : 08-Feb-2010 09:06 yip00818
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecdla.i/012210.b/013b1301.d
 Level 2: /chem/ecdla.i/012210.b/014b1401.d
 Level 3: /chem/ecdla.i/012210.b/015b1501.d
 Level 4: /chem/ecdla.i/121409.b/046b4601.d
 Level 5: /chem/ecdla.i/012210.b/017b1701.d

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 Aroclor-1016(1)	14228	12876	12485	11870	10964	12485	9.713
(2)	10308	9112	8344	7935	7035	8547	14.474
(3)	6330	5599	5139	4929	4456	5291	13.452
(4)	8280	7111	6551	6409	5718	6814	14.062
(5)	7890	6662	6193	5904	5375	6405	14.872
62 4,4-DDT	++++	++++	++++	243613	++++	243613	0.000
63 4,4-DDE	++++	++++	++++	357996	++++	357996	0.000
64 4,4-DDD	++++	++++	++++	289343	++++	289343	0.000
2 Aroclor-1221(1)	++++	++++	++++	3640	++++	3640	0.000
(2)	++++	++++	++++	2329	++++	2329	0.000
(3)	++++	++++	++++	8119	++++	8119	0.000
3 Aroclor-1232(1)	7405	6518	5773	5260	4504	5892	19.017
(2)	7294	6687	6058	5769	5299	6222	12.576
(3)	5336	4800	4249	3912	3427	4345	17.180
(4)	3854	3418	3039	2783	2462	3111	17.466
(5)	3940	3492	3102	2870	2562	3193	16.853
4 Aroclor-1242(1)	12348	11309	9989	9755	9542	10589	11.338
(2)	9730	8628	7875	7358	6677	8054	14.627
(3)	7163	6326	5763	5452	5107	5962	13.534
(4)	7183	6468	5900	5548	5185	6057	12.997
(5)	7820	7123	6589	6229	5746	6701	11.977
5 Aroclor-1248(1)	9914	8542	7972	7289	6553	8054	15.880
(2)	11996	10356	9798	9046	8173	9874	14.605
(3)	13306	11756	11119	10365	9555	11220	12.723
(4)	14720	13121	12480	11577	10516	12483	12.732
(5)	14361	12633	11977	11210	10342	12104	12.596

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2009 10:17
 End Cal Date : 29-JAN-2010 08:59
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
 Cal Date : 08-Feb-2010 09:06 yip00818
 Curve Type : Average

Compound	100.000	250.000	500.000	1000.000	4000.000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 Aroclor-1254(1)	7857	6938	6317	5878	5185	6435	15.850
(2)	13759	12316	11389	10708	9625	11559	13.615
(3)	14674	13172	12243	11576	10492	12431	12.786
(4)	19102	17554	16808	16165	14771	16880	9.533
(5)	14276	12708	12612	11843	10739	12435	10.425
7 Aroclor-1260(1)	14858	13325	12348	11932	10758	12644	12.198
(2)	17461	15979	14935	14482	13243	15220	10.456
(3)	13572	12242	11423	10976	10040	11651	11.471
(4)	14023	12666	11806	11380	10392	12054	11.383
(5)	28927	27037	25880	25311	23188	26068	8.140
8 Aroclor-1262(1)	15849	14211	13033	12748	11945	13557	11.192
(2)	21776	19630	18382	17939	16725	18890	10.157
(3)	20222	18124	16968	16542	15497	17471	10.323
(4)	38743	35618	34053	33297	30946	34532	8.384
(5)	28740	25266	23755	23937	22633	24866	9.485
9 Aroclor-1268(1)	40076	37508	36193	35765	31736	36256	8.369
(2)	36699	34342	33454	33223	30195	33583	6.968
(3)	29294	26633	25688	25340	22957	25982	8.826
(4)	12990	11609	11161	10996	9978	11347	9.656
(5)	67306	67058	67598	69416	64002	67076	2.911
10 Aroclor-Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 4cmx	314910	295845	285456	280701	259306	287244	7.105
12 Decachlorobiphenyl	251054	227132	210476	206848	192632	217628	10.274

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.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0706
 Lab File ID: 002F0201 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	12837.588	0.01	-12.4	15.0
(2)	18322.626	16881.446	0.01	-7.9	15.0
(3)	12023.655	10579.542	0.01	-12.0	15.0
(4)	7180.129	6340.762	0.01	-11.7	15.0
(5)	9289.783	8310.417	0.01	-10.5	15.0
Aroclor-1260	17636.550	17492.483	0.01	-0.8	15.0
(2)	26662.025	26719.248	0.01	0.2	15.0
(3)	15921.638	15874.558	0.01	-0.3	15.0
(4)	16550.665	16698.516	0.01	0.9	15.0
(5)	37135.384	38229.555	0.01	2.9	15.0
4cmx	398648.98	371361.76	0.01	-6.8	15.0
Decachlorobiphenyl	323316.27	306305.72	0.01	-5.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0706
 Lab File ID: 002B0201 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	11513.111	0.01	-7.8	15.0
(2)	8546.824	7680.091	0.01	-10.1	15.0
(3)	5290.741	4732.691	0.01	-10.5	15.0
(4)	6813.513	6037.895	0.01	-11.4	15.0
(5)	6404.782	5752.367	0.01	-10.2	15.0
Aroclor-1260	12644.310	12622.486	0.01	-0.2	15.0
(2)	15220.096	15319.189	0.01	0.6	15.0
(3)	11650.528	11665.669	0.01	0.1	15.0
(4)	12053.523	12022.139	0.01	-0.3	15.0
(5)	26068.381	27036.683	0.01	3.7	15.0
4cmx	287243.52	273128.74	0.01	-4.9	15.0
Decachlorobiphenyl	217628.16	208183.20	0.01	-4.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0717
 Lab File ID: 003F0301 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0722 0804
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	12485.476	13316.408	0.01	6.6	15.0
(2)	16721.938	18383.138	0.01	9.9	15.0
(3)	20713.923	24035.597	0.01	16.0	15.0 <-
(4)	15694.205	18227.087	0.01	16.1	15.0 <-
(5)	15172.491	17340.088	0.01	14.3	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0717
 Lab File ID: 003B0301 Init. Calib. Date(s): 12/14/09 12/14/09
 Heated Purge: (Y/N) N Init. Calib. Times: 0722 0804
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1254	6435.255	6210.292	0.01	-3.5	15.0
(2)	11559.316	11223.428	0.01	-2.9	15.0
(3)	12431.285	12385.662	0.01	-0.4	15.0
(4)	16880.060	17124.358	0.01	1.4	15.0
(5)	12435.475	12208.508	0.01	-1.8	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.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0820
 Lab File ID: 009F0901 Init. Calib. Date(s): 01/28/10 01/28/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1218 1300
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1268	52484.978	48680.194	0.01	-7.2	15.0
(2)	48118.088	45876.697	0.01	-4.6	15.0
(3)	37027.541	36431.401	0.01	-1.6	15.0
(4)	16294.262	18070.217	0.01	10.9	15.0
(5)	108277.36	120791.94	0.01	11.6	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 0820
 Lab File ID: 009B0901 Init. Calib. Date(s): 01/28/10 01/28/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1218 1300
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1268	36255.530	33206.637	0.01	-8.4	15.0
(2)	33582.584	31815.832	0.01	-5.3	15.0
(3)	25982.381	25007.382	0.01	-3.8	15.0
(4)	11346.665	12362.596	0.01	9.0	15.0
(5)	67076.083	78842.117	0.01	17.5	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.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1051
 Lab File ID: 022F2201 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	14089.870	0.01	-3.9	15.0
(2)	18322.626	18254.738	0.01	-0.4	15.0
(3)	12023.655	11539.563	0.01	-4.0	15.0
(4)	7180.129	6922.359	0.01	-3.6	15.0
(5)	9289.783	8923.226	0.01	-3.9	15.0
Aroclor-1260	17636.550	19002.908	0.01	7.7	15.0
(2)	26662.025	28995.739	0.01	8.8	15.0
(3)	15921.638	17302.329	0.01	8.7	15.0
(4)	16550.665	18016.442	0.01	8.8	15.0
(5)	37135.384	41342.662	0.01	11.3	15.0
4cmx	398648.98	405041.02	0.01	1.6	15.0
Decachlorobiphenyl	323316.27	329068.95	0.01	1.8	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.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1051
 Lab File ID: 022B2201 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	12553.097	0.01	0.5	15.0
(2)	8546.824	8166.106	0.01	-4.4	15.0
(3)	5290.741	5045.053	0.01	-4.6	15.0
(4)	6813.513	6628.314	0.01	-2.7	15.0
(5)	6404.782	6123.430	0.01	-4.4	15.0
Aroclor-1260	12644.310	13388.386	0.01	5.9	15.0
(2)	15220.096	16291.509	0.01	7.0	15.0
(3)	11650.528	12420.565	0.01	6.6	15.0
(4)	12053.523	12892.266	0.01	7.0	15.0
(5)	26068.381	28894.660	0.01	10.8	15.0
4cmx	287243.52	289912.86	0.01	0.9	15.0
Decachlorobiphenyl	217628.16	222287.65	0.01	2.1	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1240
 Lab File ID: 031F3101 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	14658.821	14012.608	0.01	-4.4	15.0
(2)	18322.626	18319.018	0.01	-0.0	15.0
(3)	12023.655	11547.801	0.01	-4.0	15.0
(4)	7180.129	6929.943	0.01	-3.5	15.0
(5)	9289.783	8939.715	0.01	-3.8	15.0
Aroclor-1260	17636.550	18972.127	0.01	7.6	15.0
(2)	26662.025	28835.947	0.01	8.2	15.0
(3)	15921.638	17204.186	0.01	8.0	15.0
(4)	16550.665	18148.577	0.01	9.6	15.0
(5)	37135.384	41262.622	0.01	11.1	15.0
4cmx	398648.98	404599.75	0.01	1.5	15.0
Decachlorobiphenyl	323316.27	326299.17	0.01	0.9	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.: 10-1470
 Instrument ID: ECD1A Calibration Date: 02/05/10 Time: 1240
 Lab File ID: 031B3101 Init. Calib. Date(s): 01/29/10 01/29/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0746 0859
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	12484.762	12359.615	0.01	-1.0	15.0
(2)	8546.824	8069.931	0.01	-5.6	15.0
(3)	5290.741	4988.684	0.01	-5.7	15.0
(4)	6813.513	6345.906	0.01	-6.9	15.0
(5)	6404.782	6017.327	0.01	-6.0	15.0
Aroclor-1260	12644.310	13242.341	0.01	4.7	15.0
(2)	15220.096	16223.303	0.01	6.6	15.0
(3)	11650.528	12301.397	0.01	5.6	15.0
(4)	12053.523	12694.909	0.01	5.3	15.0
(5)	26068.381	28307.638	0.01	8.6	15.0
4cmx	287243.52	286907.88	0.01	-0.1	15.0
Decachlorobiphenyl	217628.16	219266.81	0.01	0.8	15.0

FORM VII PEST

Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/002f0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 05-FEB-2010 07:06

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d

Als bottle: 2 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.965	1.965	0.000	37136176	100.000	93.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.275	5.275	0.000	30630572	100.000	94.7	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2			
2.419	2.419	0.000	12837588	1000.00	876	80.00- 120.00	100.00
2.707	2.707	0.000	16881446	1000.00	921	111.50- 151.50	131.50
2.788	2.788	0.000	10579542	1000.00	880	62.41- 102.41	82.41
2.826	2.826	0.000	6340762	1000.00	883	29.39- 69.39	49.39
3.036	3.036	0.000	8310417	1000.00	894	44.74- 84.74	64.74
Average of Peak Amounts =				891			

7 Aroclor 1260				CAS #: 11096-82-5			
3.762	3.762	0.000	17492483	1000.00	992	80.00- 120.00	100.00
3.925	3.925	0.000	26719248	1000.00	1000	132.75- 172.75	152.75
4.155	4.155	0.000	15874558	1000.00	997	70.75- 110.75	90.75
4.297	4.297	0.000	16698516	1000.00	1010	75.46- 115.46	95.46
4.477	4.477	0.000	38229555	1000.00	1030	198.55- 238.55	218.55
Average of Peak Amounts =				1.01e+03			

Data File: /chem/ecdda.i/020510.b/002f0201.d

Date: 05-FEB-2010 07:06

Client ID: AR166001

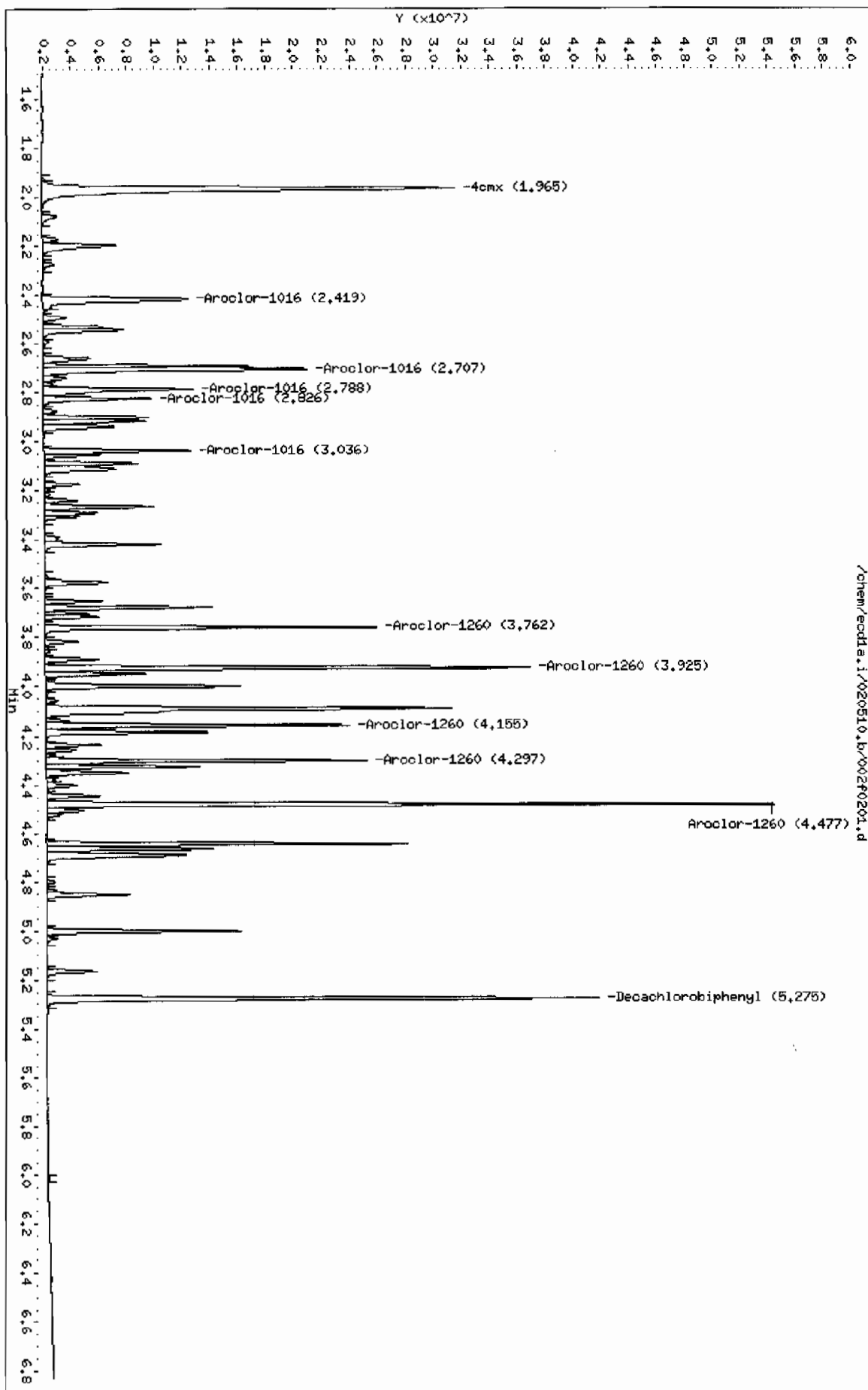
Sample Info: WARI00203-60 01

Column phase: CLP1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25



Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/002b0201.d

Lab Smp Id: WAR100203-60 01

Client Smp ID: AR166001

Inj Date : 05-FEB-2010 07:06

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 01

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 2

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
11	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.296	2.296	0.000	27312874	100.000	95.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24 3			
5.942	5.942	0.000	20818320	100.000	95.7	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.192	3.192	0.000	11513111	1000.00	922	80.00- 120.00	100.00(M)	
3.275	3.275	0.000	7680091	1000.00	898	46.71- 86.71	66.71	
3.339	3.339	0.000	4732691	1000.00	894	21.11- 61.11	41.11	
3.565	3.565	0.000	6037895	1000.00	886	32.44- 72.44	52.44	
3.641	3.641	0.000	5752367	1000.00	898	29.96- 69.96	49.96	
Average of Peak Amounts =					900			

7 Aroclor-1260					CAS #: 11096-82-5			
4.332	4.332	0.000	12622486	1000.00	998	80.00- 120.00	100.00	
4.457	4.457	0.000	15319189	1000.00	1010	101.36- 141.36	121.36	
4.722	4.722	0.000	11665669	1000.00	1000	72.42- 112.42	92.42	
4.896	4.896	0.000	12022139	1000.00	997	75.24- 115.24	95.24	
5.043	5.043	0.000	27036683	1000.00	1040	194.19- 234.19	214.19	
Average of Peak Amounts =					1.01e+03			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1,1/020510,b/002b0201.d

Date: 05-FEB-2010 07:06

Client ID: HR166001

Sample Info: (HR100203-60) 01

Page 1

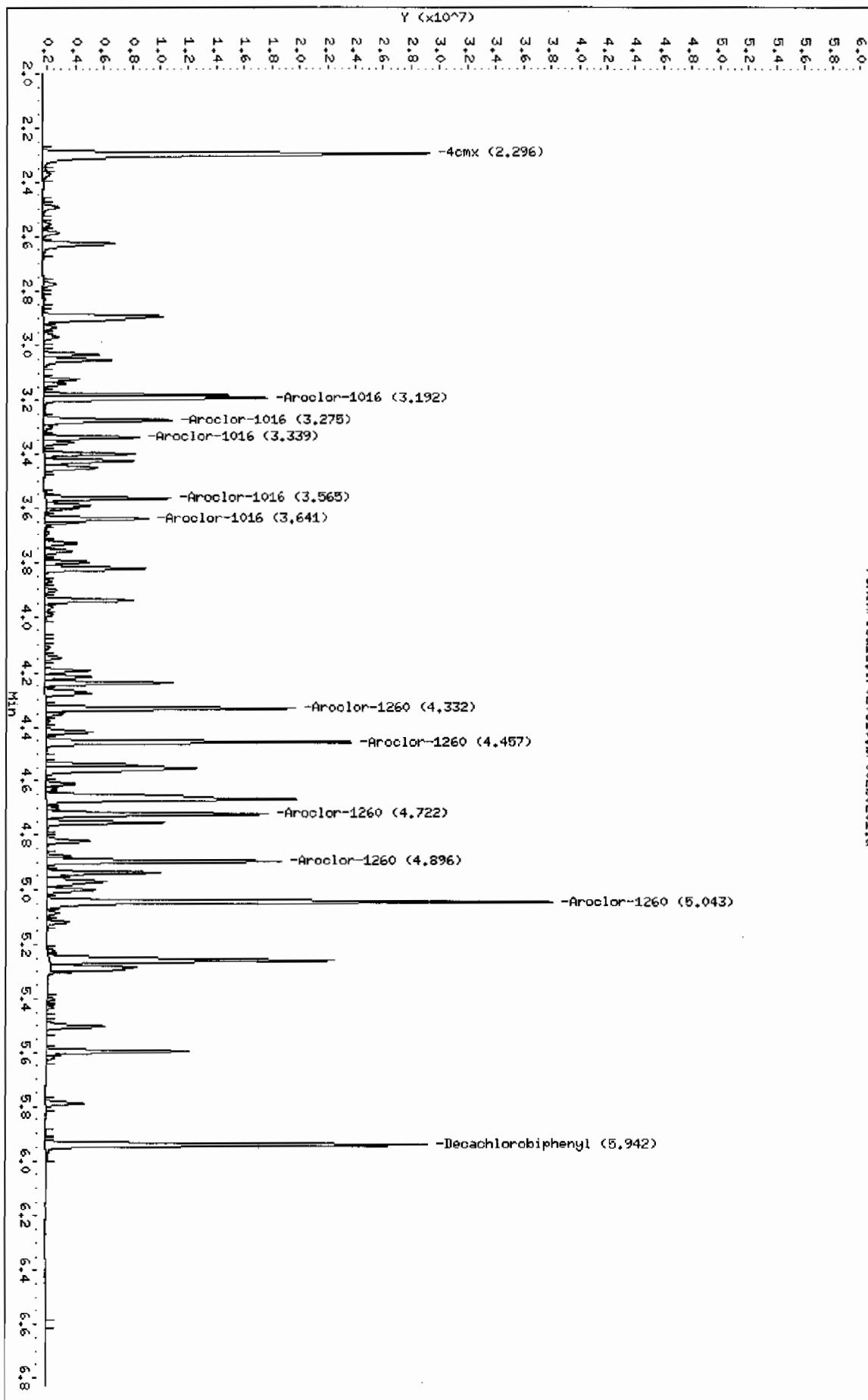
Instrument: ecdl1,1

Operator: YSL

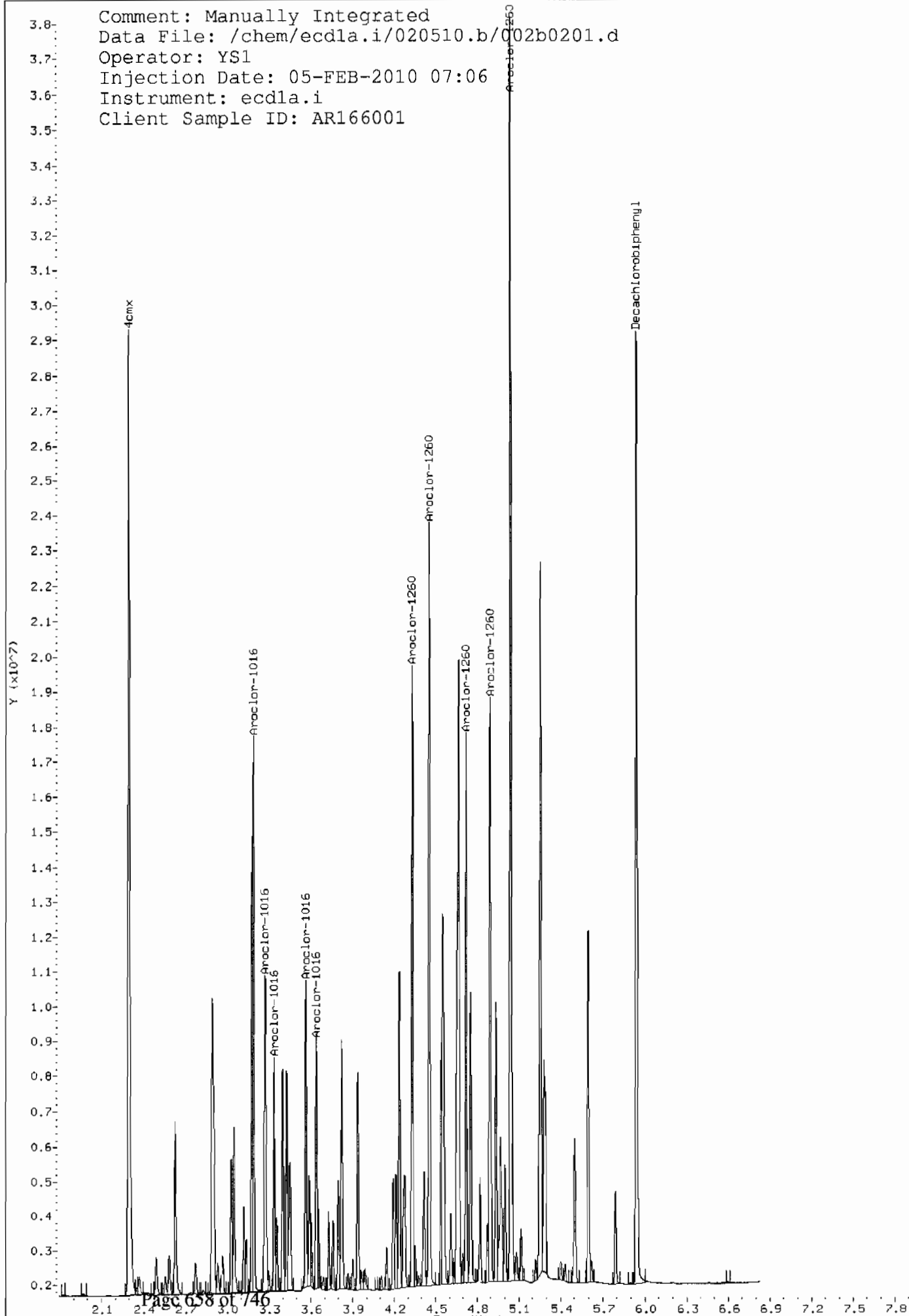
Column diameter: 0.25

Column phase: CLP2

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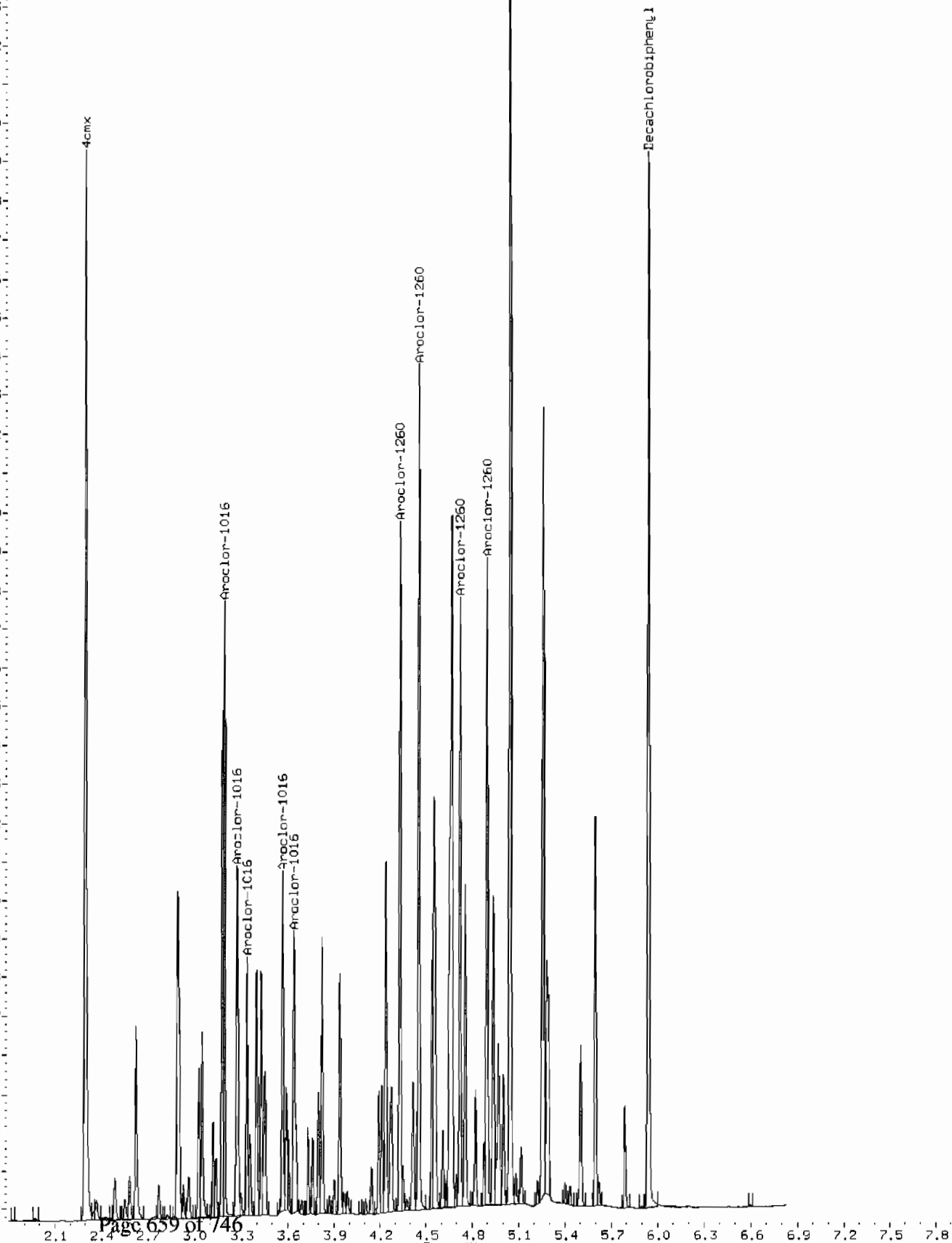


Comment: Manually Integrated
Data File: /chem/ecdl1a.i/020510.b/002b0201.d
Operator: YS1
Injection Date: 05-FEB-2010 07:06
Instrument: ecld1a.i
Client Sample ID: AR166001



Comment: Before manual integration
Data File: /chem/ecdl1.i/020510.b/orig-002b0201.d
Operator: YS1
Injection Date: 05-FEB-2010 07:06
Instrument: ecd1a.i
Client Sample ID: AR166001

Y (x10⁻⁷)



Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/003f0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 05-FEB-2010 07:17

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DIT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254			CAS #: 11097-69-1			
3.266	3.266	0.000	13316408 1000.00	1070	80.00- 120.00	100.00
3.421	3.421	0.000	18383138 1000.00	1100	118.05- 158.05	138.05
3.655	3.655	0.000	24035597 1000.00	1160	160.50- 200.50	180.50
3.818	3.818	0.000	18227087 1000.00	1160	116.88- 156.88	136.88
3.926	3.926	0.000	17340088 1000.00	1140	110.22- 150.22	130.22

Average of Peak Amounts = 1.13e+03

Data File: /chem/ecdtla.i/020510.b/003f0301.d

Date: 05-FEB-2010 07:17

Client ID: AR125401

Sample Info: 1MAR091216-54

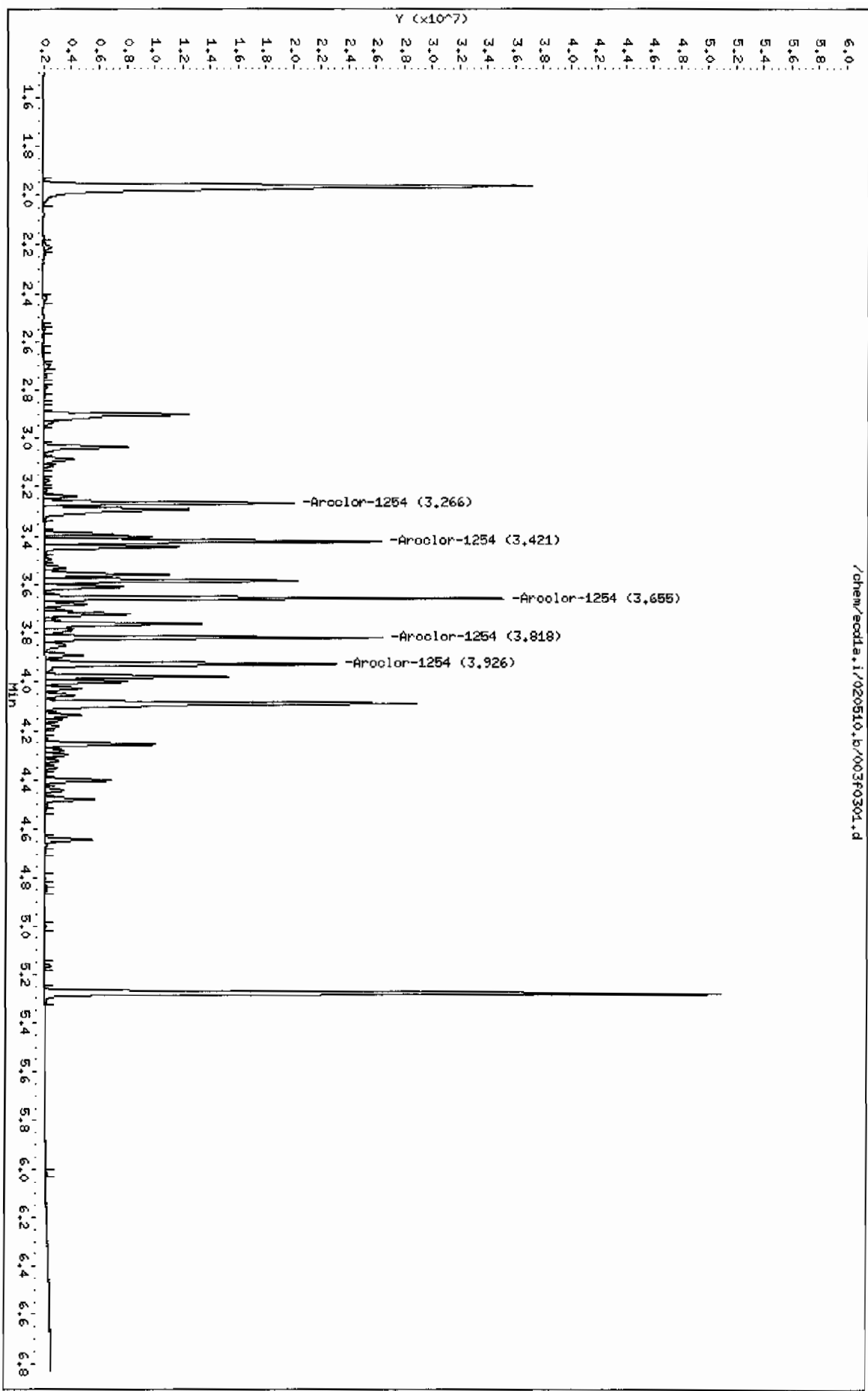
Instrument: ecdtla.i

Column phase: CLP1

Operator: YS1

Column diameter: 0.25

/chem/ecdtla.i/020510.b/003f0301.d



Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/003b0301.d

Lab Smp Id: WAR091216-54

Client Smp ID: AR125401

Inj Date : 05-FEB-2010 07:17

Operator : YSl

Inst ID: ecd1a.i

Smp Info : |WAR091216-54

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 3

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1254.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

6 Aroclor-1254			CAS #: 11097-69-1			
3.401	3.401	0.000	6210292 1000.00	965	80.00- 120.00	100.00
3.824	3.824	0.000	11223428 1000.00	971	160.72- 200.72	180.72
3.940	3.940	0.000	12385662 1000.00	996	179.44- 219.44	199.44
4.216	4.216	0.000	17124358 1000.00	1010	255.74- 295.74	275.74
4.353	4.353	0.000	12208508 1000.00	982	176.59- 216.59	196.59

Average of Peak Amounts = 986

Data File: /chem/ecdda.i/020510.b/003b0301.d

Date : 05-FEB-2010 07:17

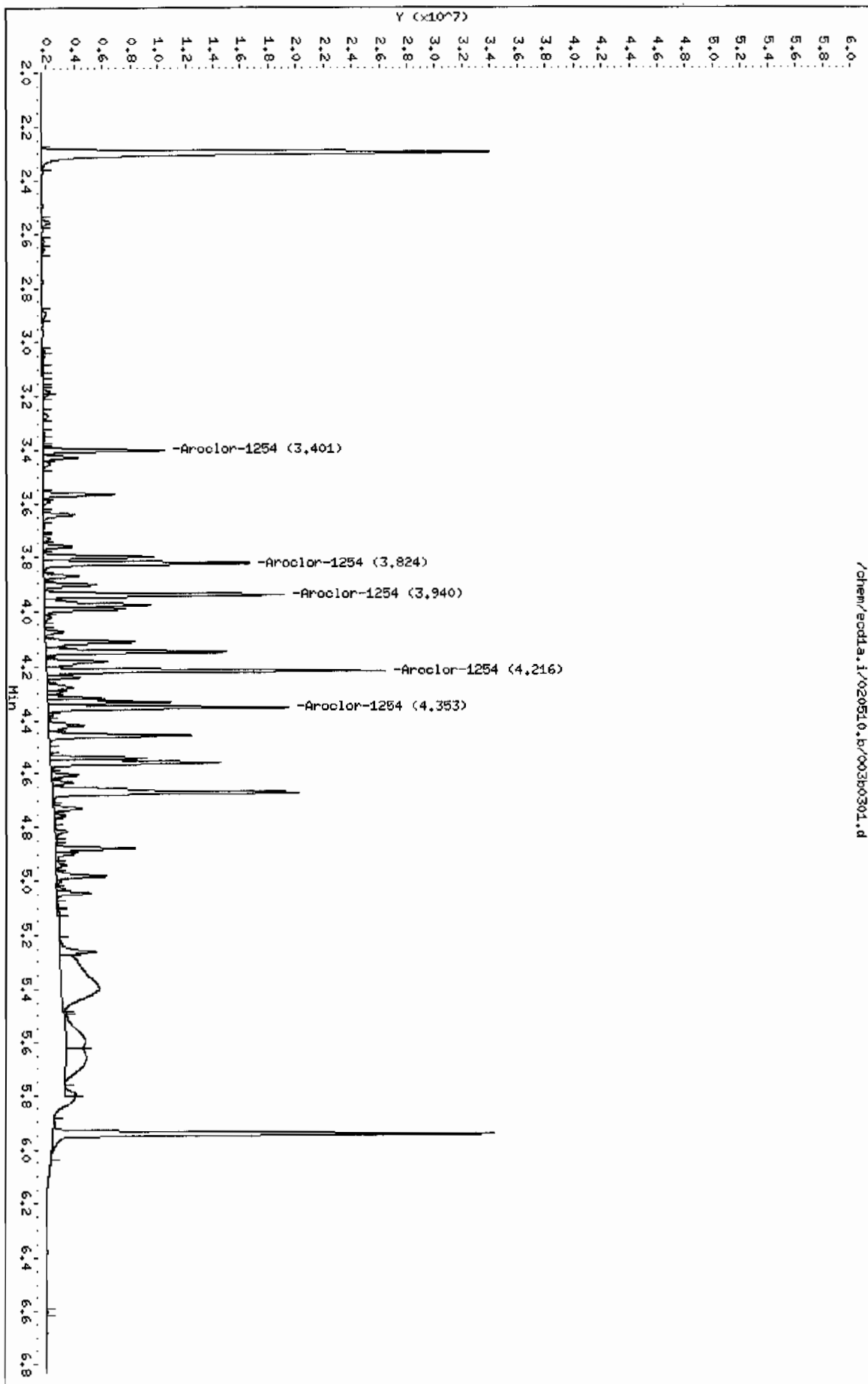
Client ID: AR125401

Sample Info: IMA091216-54

Page 1

Column phase: CLP2

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 05-FEB-2010 07:27

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

4 Aroclor-1242

CAS #: 53469-21-9

2.420	2.420	0.000	11255044	1000.00	965 80.00- 120.00	100.00
2.708	2.708	0.000	14293317	1000.00	1060 106.99- 146.99	126.99
2.826	2.826	0.000	5433097	1000.00	987 28.27- 68.27	48.27
3.037	3.037	0.000	7156483	1000.00	988 43.58- 83.58	63.58
3.290	3.290	0.000	6999007	1000.00	1030 42.19- 82.19	62.19

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl1a.i/020510.b/004f0401.d

Date : 05-FEB-2010 07:27

Client ID: AR124201

Sample Info: 1MAR091217-42

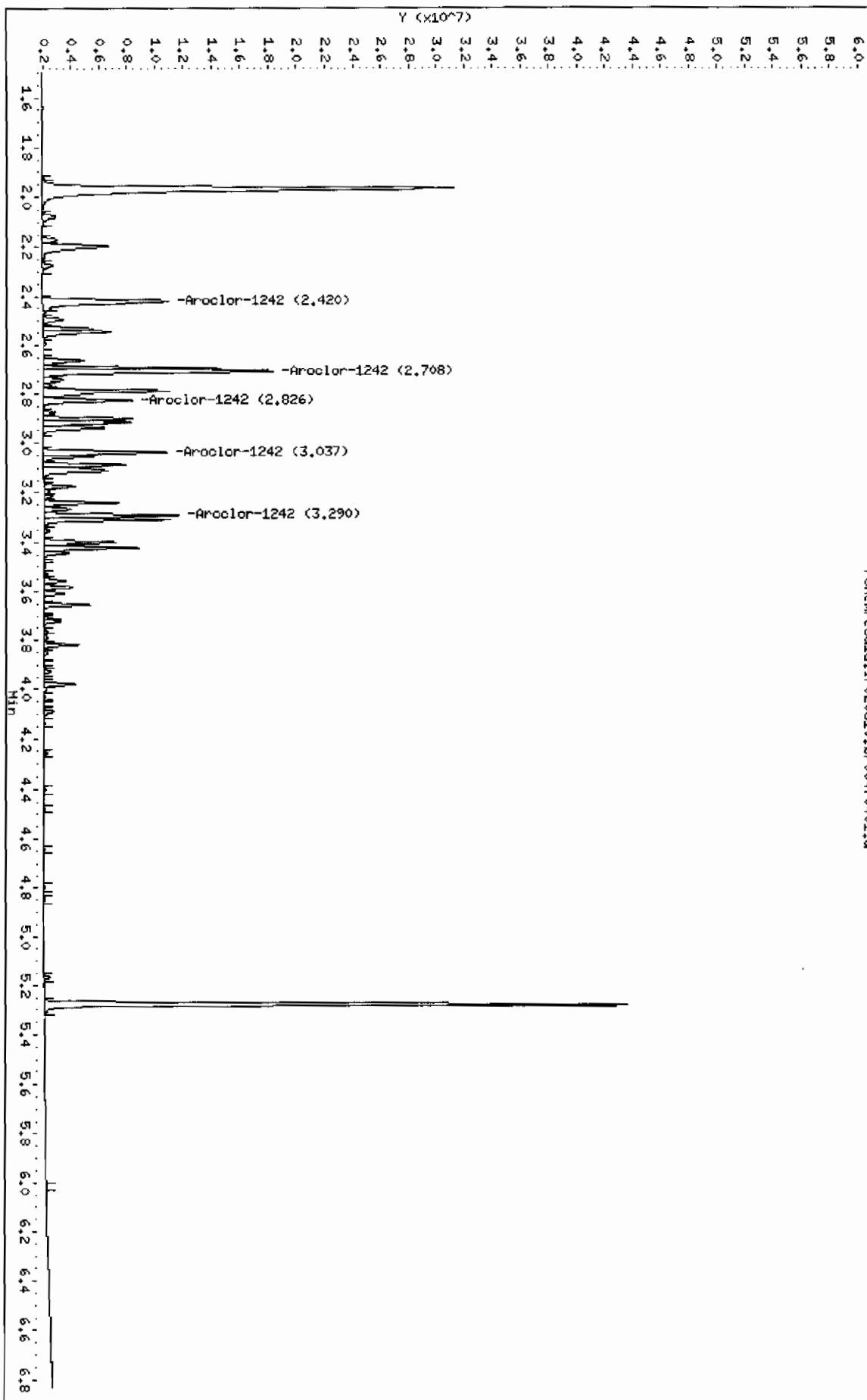
Column phase: CLP1

Instrument: ecdl1a.i

Operator: YSI

Column diameter: 0.25

/chem/ecdl1a.i/020510.b/004f0401.d



Report Date: 05-Feb-2010 08:29

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 05-FEB-2010 07:27

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-42

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 4

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1242.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	CAL AMT (ug/L)	ON-COL	TARGET RANGE	RATIO
4	Aroclor-1242				CAS #: 53469-21-9		
3.192	3.192	0.000	10109273	1000.00	955	80.00- 120.00	100.00
3.275	3.275	0.000	6573360	1000.00	816	45.02- 85.02	65.02
3.566	3.566	0.000	5197092	1000.00	872	31.41- 71.41	51.41
3.800	3.800	0.000	5378692	1000.00	888	33.21- 73.21	53.21
3.828	3.828	0.000	6016980	1000.00	898	39.52- 79.52	59.52
Average of Peak Amounts =				886			

Data File: /chem/ecdl1/020510.b/004b0401.d

Date : 05-FEB-2010 07:27

Client ID: AR124201

Sample Info: 1MAR091217-42

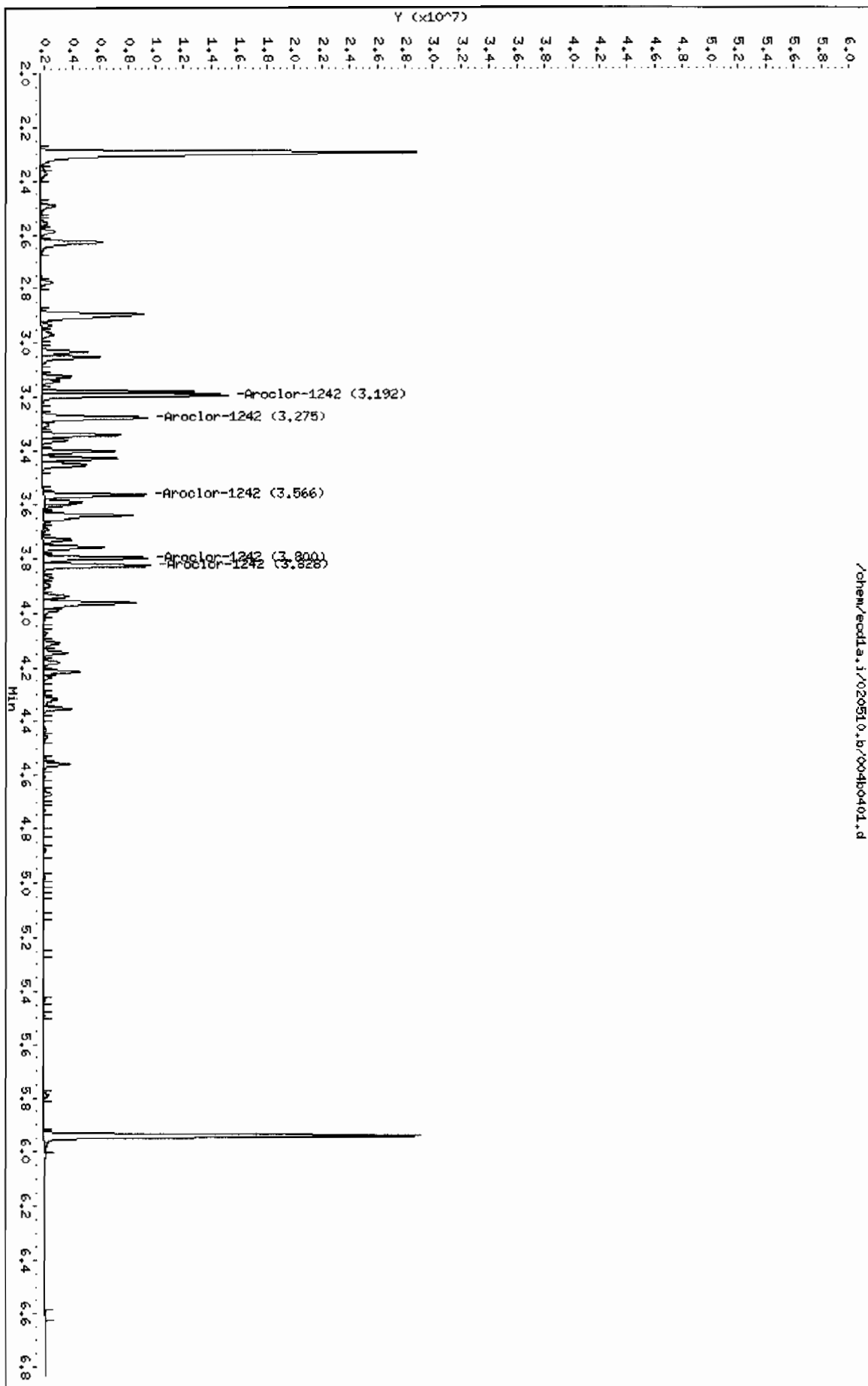
Page 1

Instrument: ecdl1

Operator: YSL

Column diameter: 0.25

Column phase: CLP2



Report Date: 05-Feb-2010 08:30

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 05-FEB-2010 07:38

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

5 Aroclor-1248

CAS #: 12672-29-6

3.088	3.088	0.000	8241247 1000.00	1050	80.00 120.00	100.00
3.240	3.240	0.000	7125731 1000.00	1040	66.46- 106.46	86.46
3.291	3.291	0.000	14052338 1000.00	1060	150.51- 190.51	170.51
3.422	3.422	0.000	11222456 1000.00	1020	116.17- 156.17	136.17
3.655	3.655	0.000	7182031 1000.00	963	67.15- 107.15	87.15

Average of Peak Amounts = 1.03e+03

Data File: /chem/ecdl.a.i/020510.b/005f0501.d

Date : 05-FEB-2010 07:38

Client ID: AR124801

Sample Info: MAR091217-48

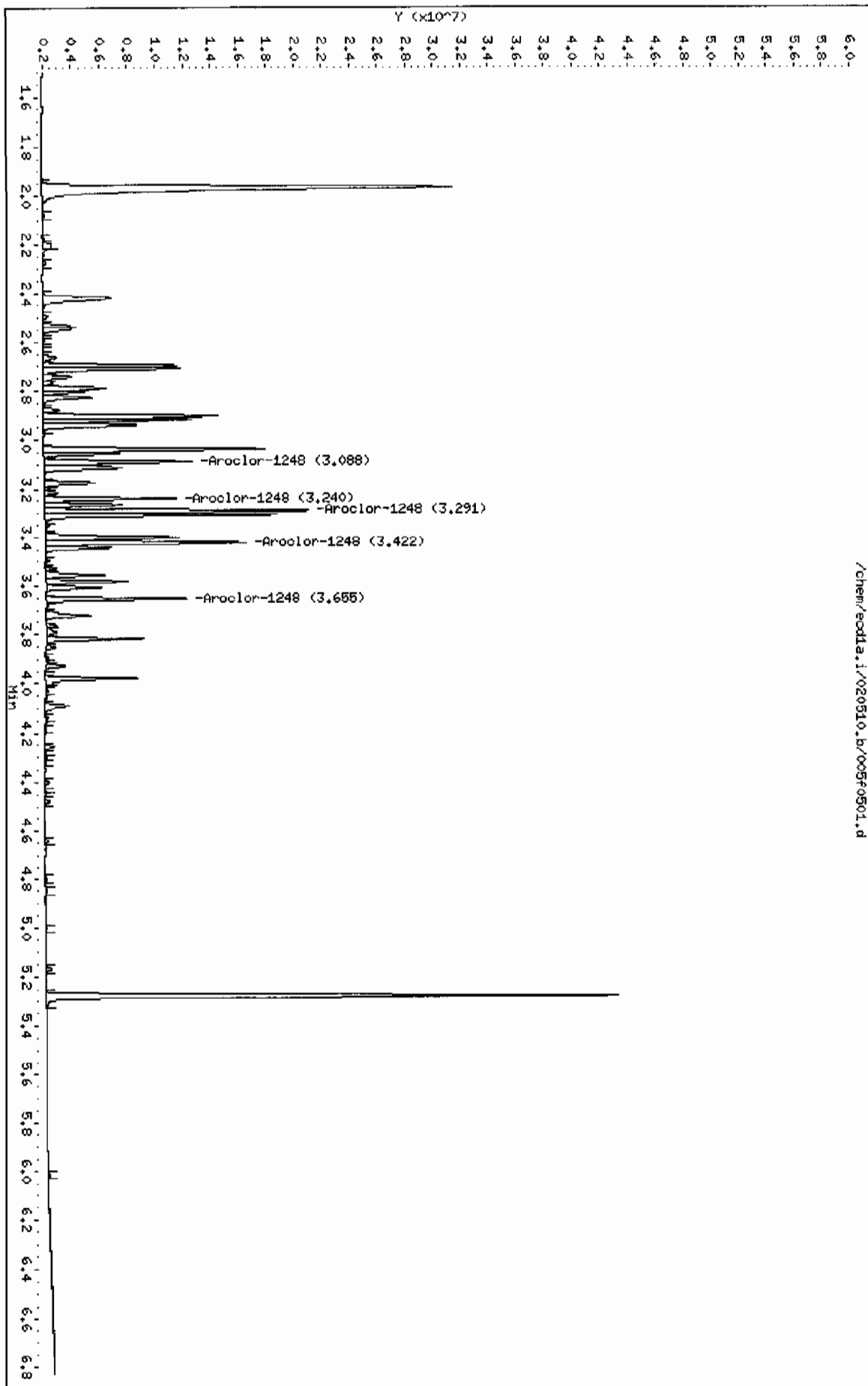
Column phase: CLP1

Page 1

Instrument: ecdl.a.i

Operator: YSL

Column diameter: 0.25



Report Date: 05-Feb-2010 09:40

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/005b0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 05-FEB-2010 07:38

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR091217-48

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 09:40 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1248.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpclp1

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
5 Aroclor-1248			CAS #: 12672-29-6			
3.401	3.401	0.000	7358985 1000.00	914 80.00-	120.00	100.00
3.566	3.566	0.000	9216148 1000.00	933 105.24	145.24	125.24
3.800	3.800	0.000	10436092 1000.00	930 121.81-	161.81	141.81
3.827	3.827	0.000	11626532 1000.00	931 137.99	177.99	157.99
3.965	3.965	0.000	11178442 1000.00	924 131.90-	171.90	151.90
Average of Peak Amounts =			926			

Data File: /chem/ecdl1.i/020510.b/005b0501.d

Date: 05-FEB-2010 07:38

Client ID: AR124801

Sample Info: 146R091217-48

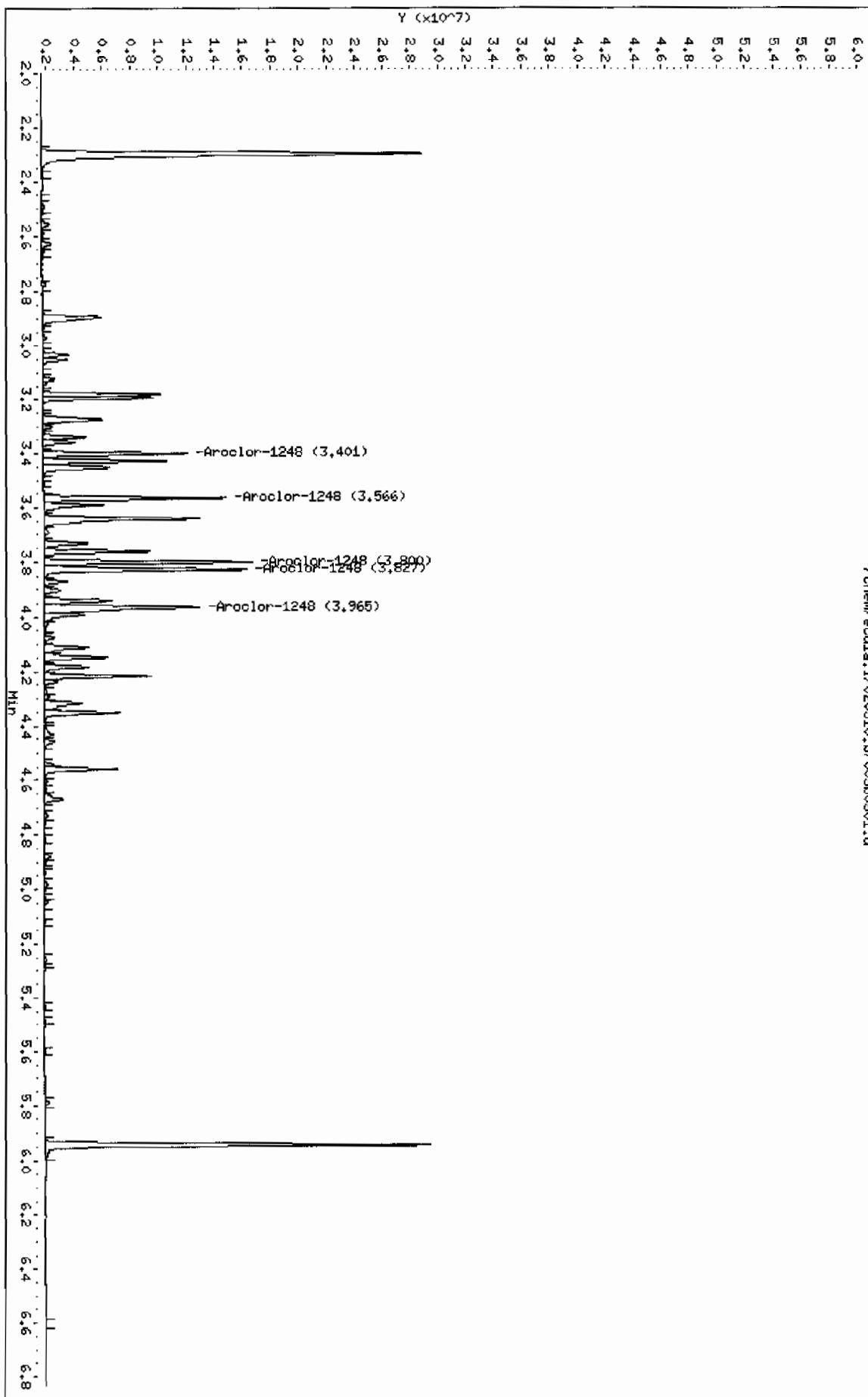
Column phase: CLP2

Instrument: ecdl1.i

Operator: YSI

Column diameter: 0.25

/chem/ecdl1.i/020510.b/005b0501.d



Data File: /chem/ecdla.i/020510.b/006f0601.d
Report Date: 05-Feb-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdla.i/020510.b/006f0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 05-FEB-2010 07:48

Operator : YS1

Inst ID: ecdla.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

3 Aroclor-1232

CAS #: 11141-16-5

2.421	2.421	0.000	6684520 1000.00	976 80.00 120.00	100.00
2.709	2.709	0.000	8973672 1000.00	1060 114.25- 154.25	134.25
2.789	2.789	0.000	5627474 1000.00	1000 64.19- 104.19	84.19
3.038	3.038	0.000	4163606 1000.00	1040 42.29- 82.29	62.29
3.291	3.291	0.000	3786517 1000.00	981 36.65- 76.65	56.65

Average of Peak Amounts = 1.01e+03

Data File: /chem/ecdl.a.i/020510.b/006f0601.d

Date: 05-FEB-2010 07:48

Client ID: AR123201

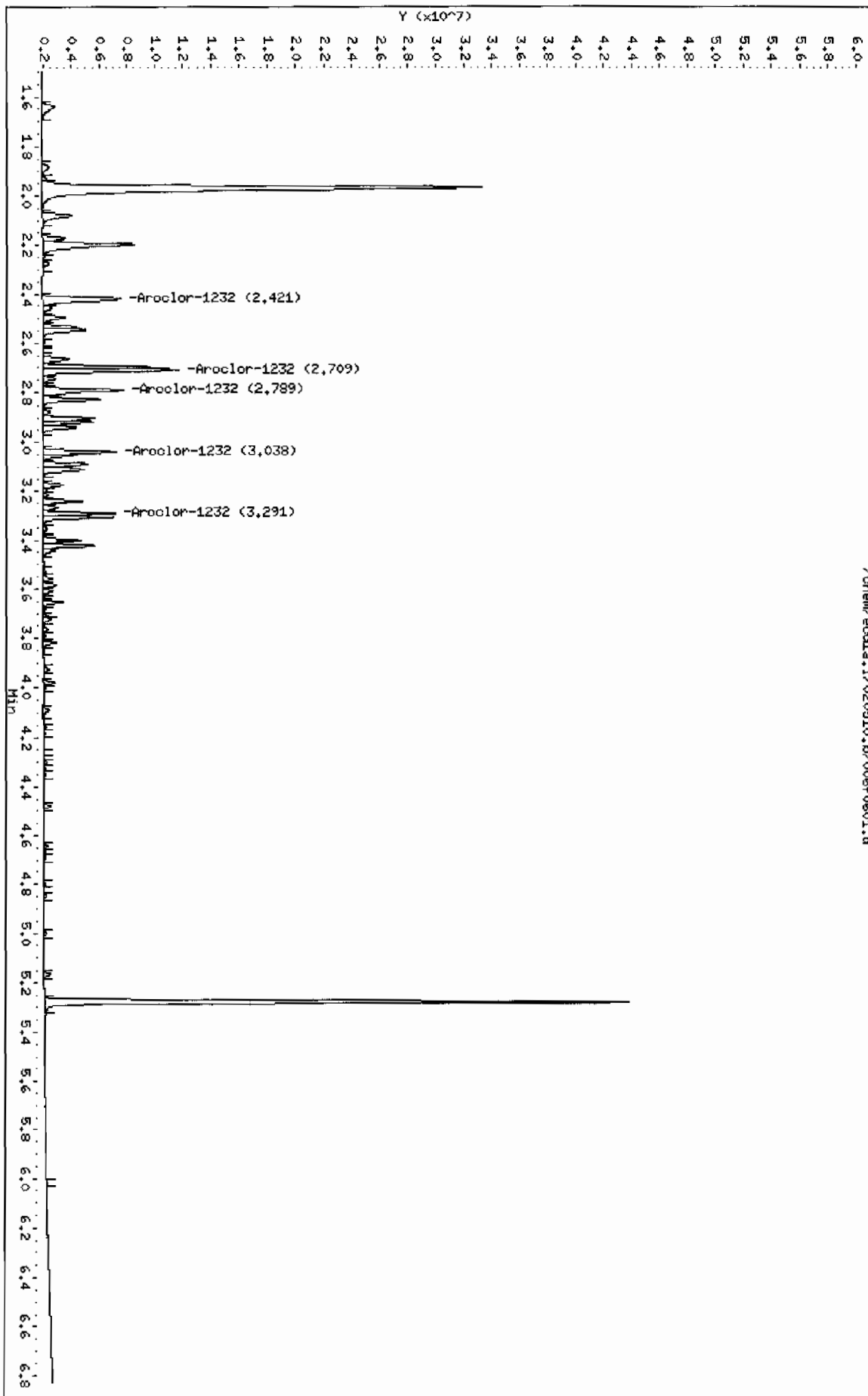
Sample Info: INMR100104-32

Page 1

Column phase: CLP1

Instrument: ecdl.a.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl.a.i/020510.b/006f0601.d



Report Date: 05-Feb-2010 08:30

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd1a.i/020510.b/006b0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 05-FEB-2010 07:48

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-32

Misc Info :

Comment :

Method : /chem/ecd1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 6

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1232.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT	ON-COL	RESPONSE (ug/l.)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
3 Aroclor-1232			CAS #: 11141 16-5					
2.895	2.895	0.000	5518314	1000.00	937	80.00- 120.00	100.00	
3.193	3.193	0.000	6067838	1000.00	975	89.96- 129.96	109.96	
3.276	3.276	0.000	4176572	1000.00	961	55.69- 95.69	75.69	
3.567	3.567	0.000	3101183	1000.00	997	36.20- 76.20	56.20	
3.800	3.800	0.000	3042822	1000.00	953	35.14- 75.14	55.14	
Average of Peak Amounts =			965					

Data File: /chem/ecdda.i/020510.b/006b0601.d

Page 1

Date : 05-FEB-2010 07:48

Client ID: AR123201

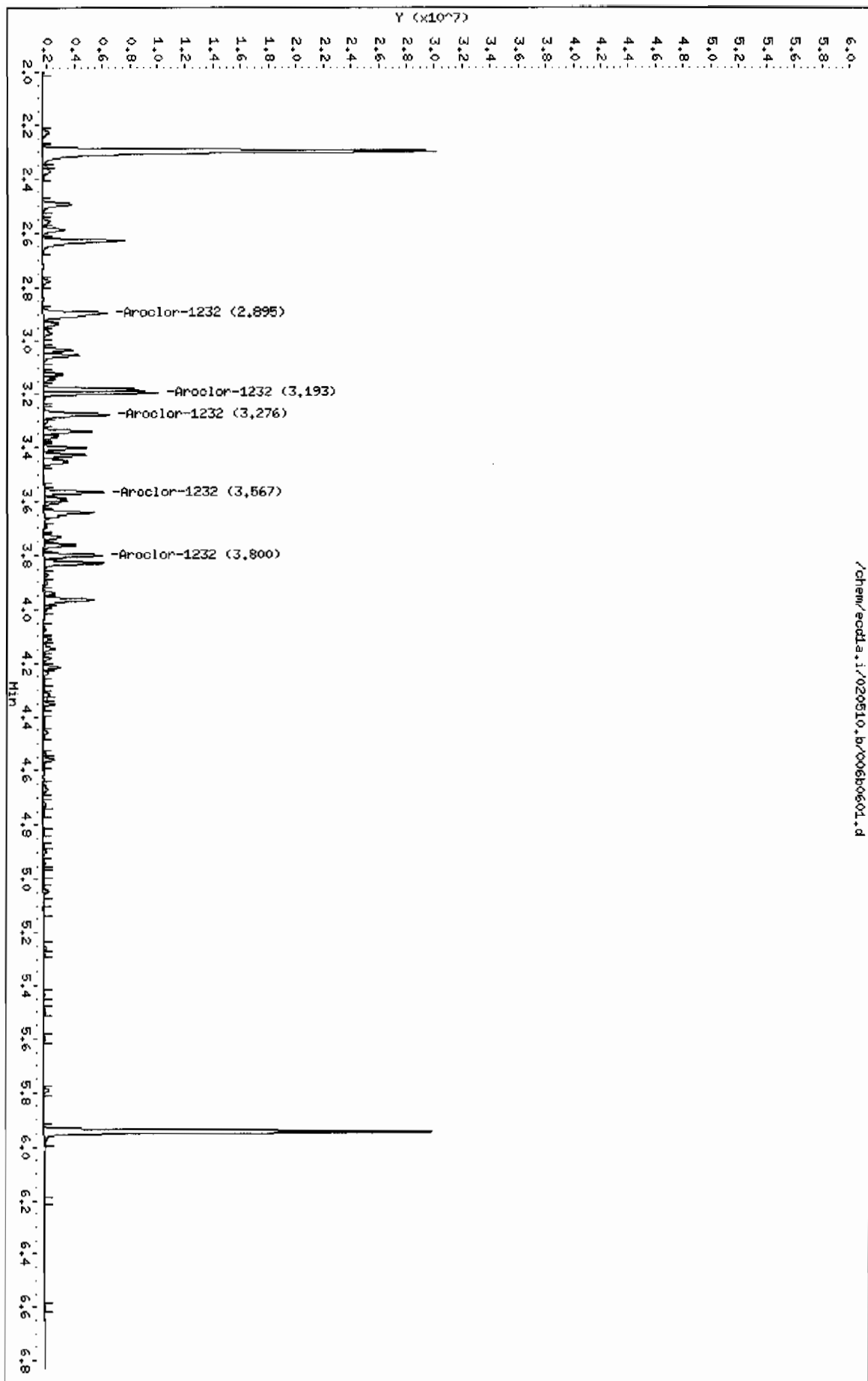
Sample Info: IIAK100104-32

Instrument: ecdda.i

Column phase: CLP2

Operator: YSL

Column diameter: 0.25



Report Date: 05-Feb-2010 08:30

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 05-FEB-2010 07:59

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DIT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

2 Aroclor-1221			CAS #: 11104-28-2			
2.077	2.077	0.000	4201820	1000.00	977 80.00- 120.00	100.00
2.170	2.170	0.000	2263486	1000.00	927 33.87- 73.87	53.87
2.195	2.195	0.000	10281522	1000.00	1000 224.69- 264.69	244.69

Average of Peak Amounts = 968

Data File: /chem/eccl.a.i/020510.b/007f0701.d

Date: 05-FEB-2010 07:59

Client ID: BR122101

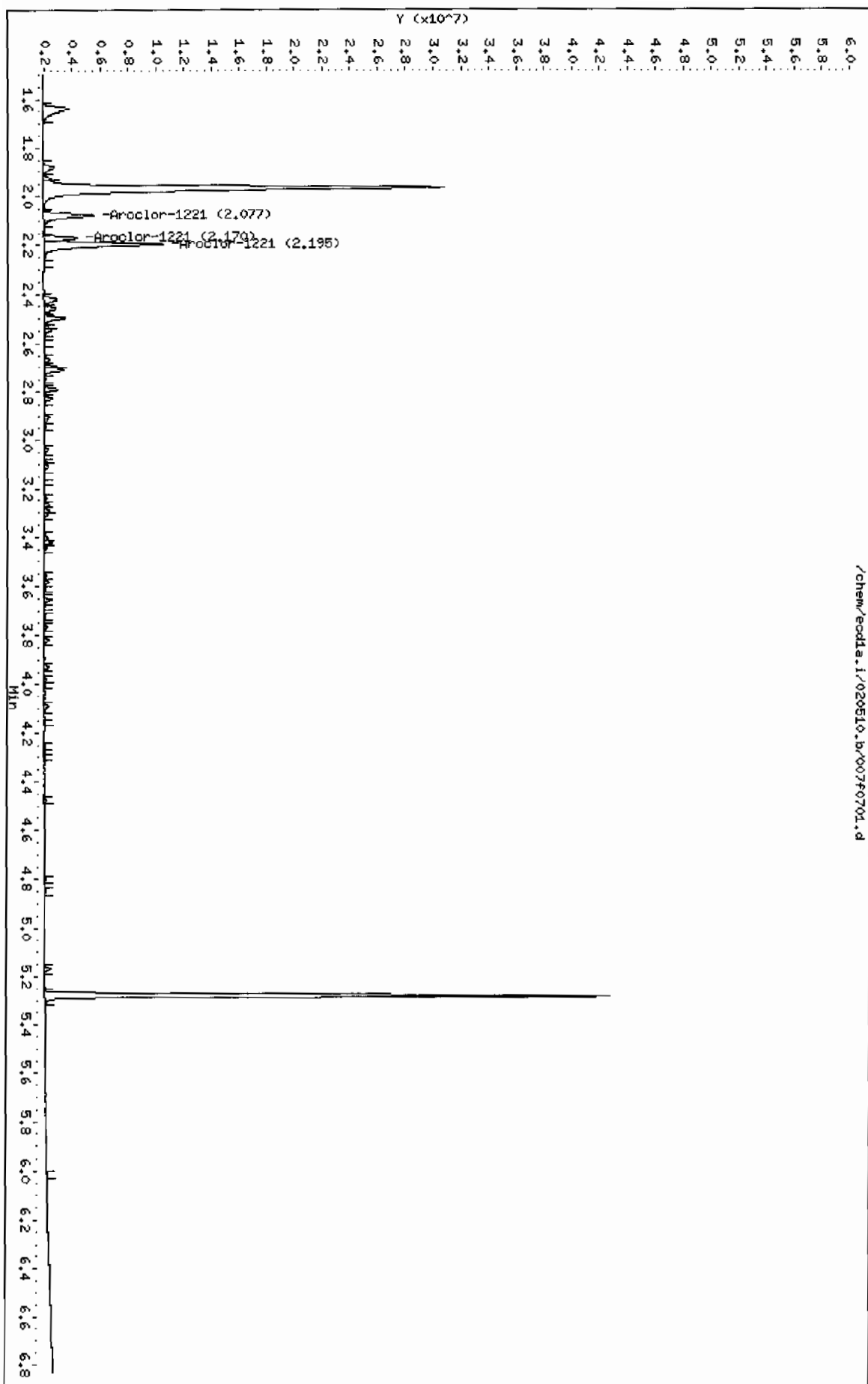
Sample Info: 1MAR100104-21

Column phase: CLP1

Instrument: eccl.a.i

Operator: YSL

Column diameter: 0.25



Data File: /chem/ecdl1a.i/020510.b/007b0701.d
Report Date: 05-Feb-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR123201

Inj Date : 05-FEB-2010 07:59

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100104-21

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:25 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 7

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1221.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

CAL-AMT ON-COL

RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

2.492	2.492	0.000	3283686	1000.00	902 80.00- 120.00	100.00
2.586	2.586	0.000	2130872	1000.00	915 44.89- 84.89	64.89
2.627	2.627	0.000	7321346	1000.00	902 202.96- 242.96	222.96

Average of Peak Amounts = 906

Data File: /chem/ecdda.i/020510.b/007b0701.d

Date: 05-FEB-2010 07:59

Client ID: AR123204

Sample Info: 11MAR100104-Z1

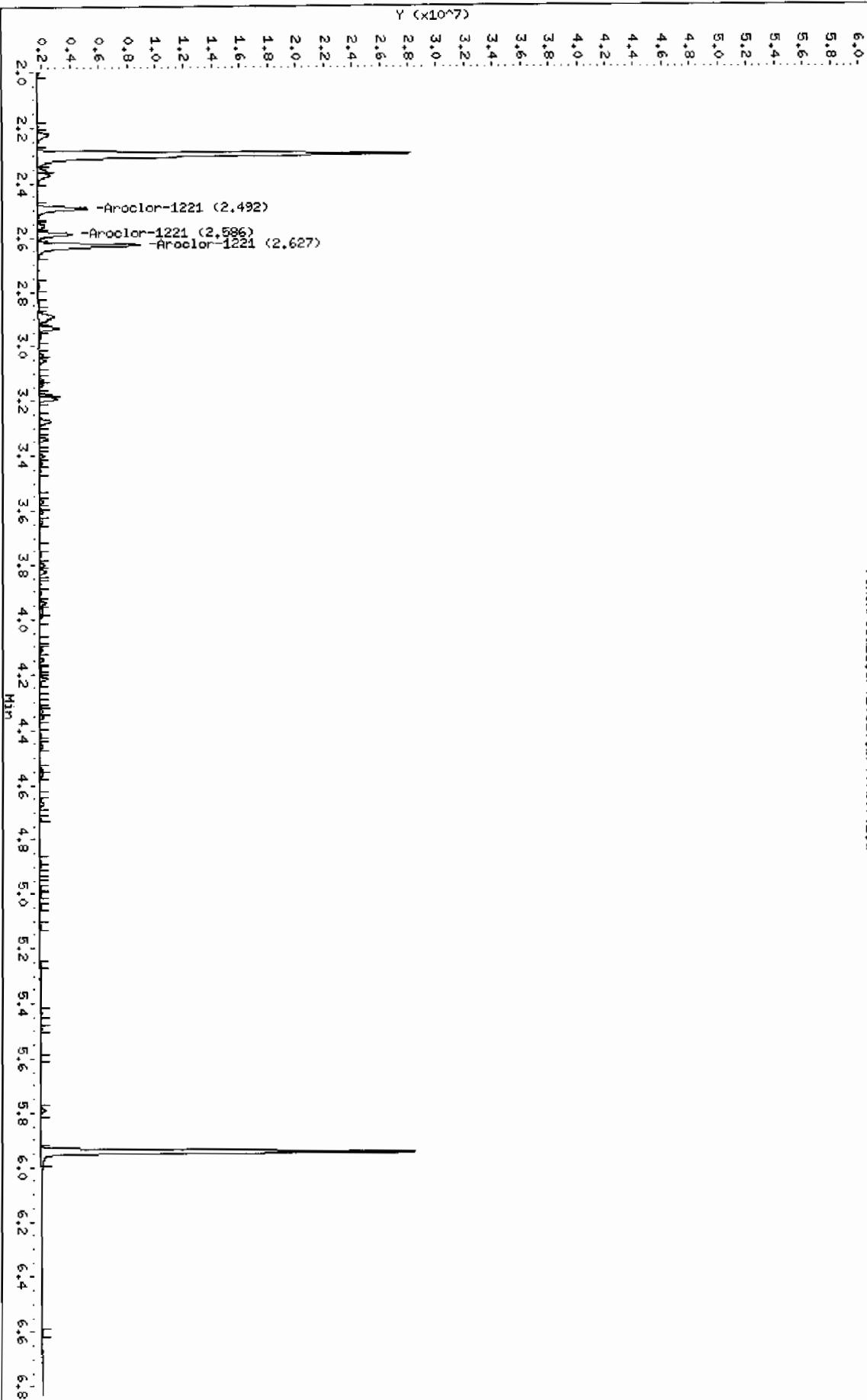
Column phase: CLP2

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25

/chem/ecdda.i/020510.b/007b0701.d



Report Date: 05-Feb-2010 08:41

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/009f0901.d

Lab Smp Id: WAR100107-68

Client Smp ID: AR126801

Inj Date : 05-FEB-2010 08:20

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1268.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

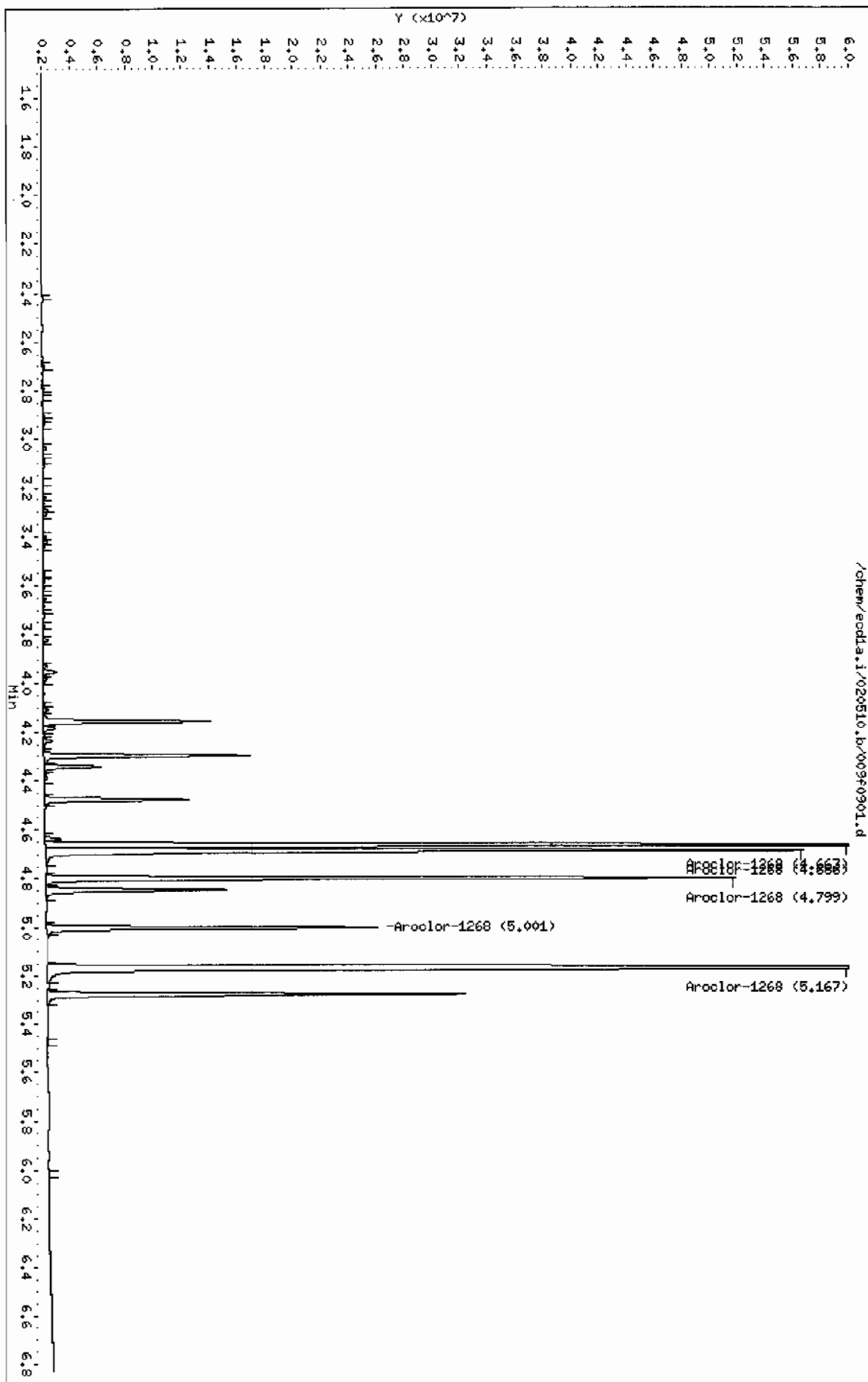
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
9 Aroclor-1268			CAS #: 11100-14-4			
4.663	4.663	0.000	48680193 1000.00	928	80.00- 120.00	100.00
4.686	4.686	0.000	45876696 1000.00	953	74.24- 114.24	94.24
4.799	4.799	0.000	36431401 1000.00	984	54.84- 94.84	74.84
5.001	5.001	0.000	18070217 1000.00	1110	17.12- 57.12	37.12
5.167	5.167	0.000	120791943 1000.00	1120	228.13- 268.13	248.13
Average of Peak Amounts =			1.02e+03			

Data File: /chem/ecdl1.i/020510.b/009f0901.d
Date : 05-FEB-2010 08:20
Client ID: AR126801
Sample Info: 1HAR100107-68

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Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



Report Date: 05-Feb-2010 08:41

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/009b0901.d

Lab Smp Id: WAR100107-68

Client Smp ID: AR126801

Inj Date : 05-FEB-2010 08:20

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100107-68

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 9

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1268.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
----	--------	--------	------------------	---------	--------------	-------

9 Aroclor-1268

CAS #: 11100-14-4

5.255	5.255	0.000	33206637	1000.00	916 80.00- 120.00	100.00
5.283	5.283	0.000	31815831	1000.00	947 75.81- 115.81	95.81
5.433	5.433	0.000	25007381	1000.00	962 55.31- 95.31	75.31
5.598	5.598	0.000	12362596	1000.00	1090 17.23- 57.23	37.23
5.790	5.790	0.000	78842117	1000.00	1180 217.43- 257.43	237.43

Average of Peak Amounts = 1.02e+03

Data File: /chem/ecdl.a.i/020510.b/00960901.d

Date : 05-FEB-2010 08:20

Client ID: AR126801

Sample Info: WMR100107-68

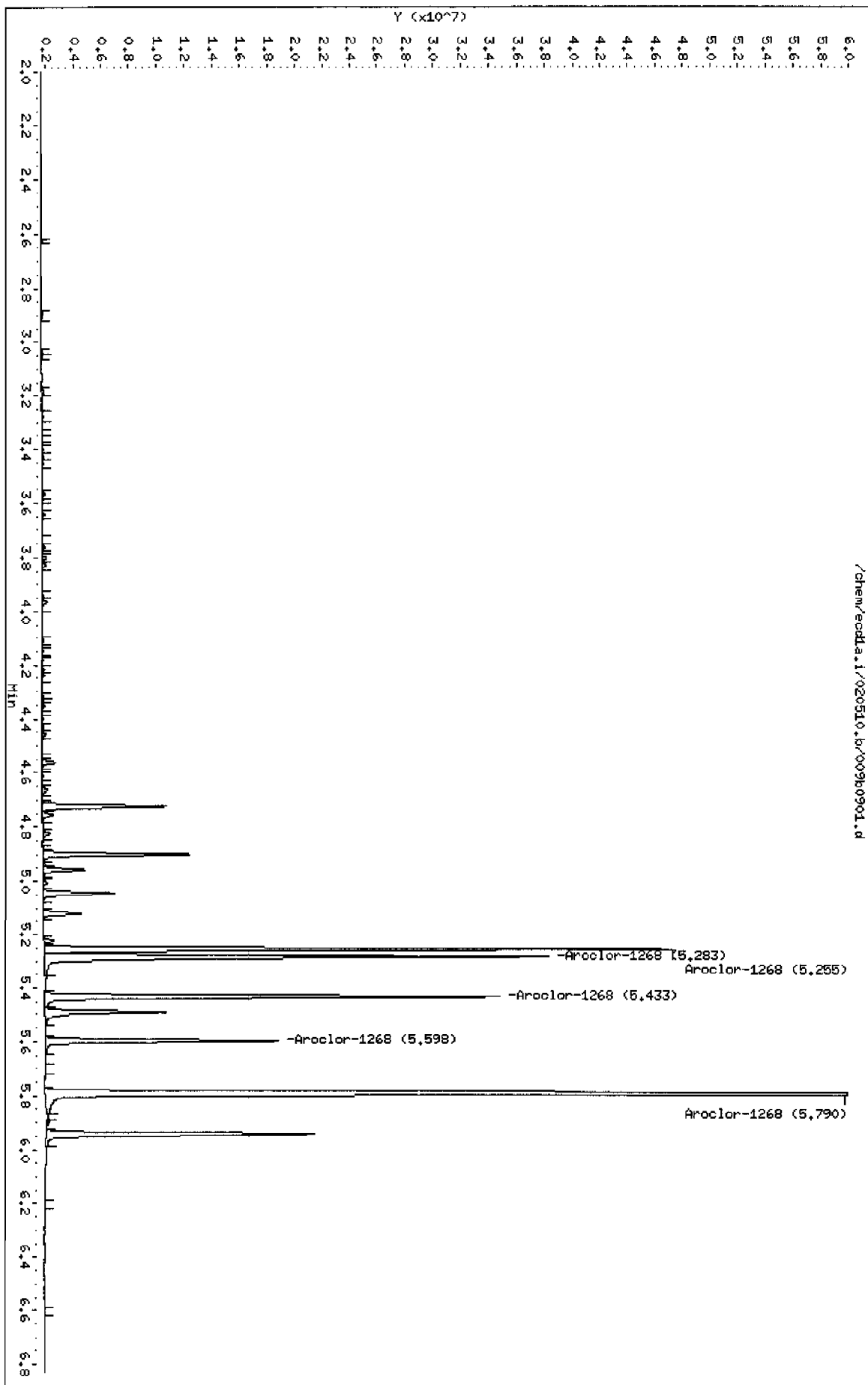
Page 1

Instrument: ecdl.a.i

Operator: YSA

Column diameter: 0.25

Column phase: CLP2



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1.i/020510.b/022f2201.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date : 05-FEB-2010 10:51

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 02

Misc Info :

Comment :

Method : /chem/ecdl1.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 08-Feb-2010 09:06 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.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	RESPONSE (ug/L)	CAL-AMT (ug/L)	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8				
1.965	1.965	0.000	40504102 100.000	102	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.274	5.275	-0.001	32906895 100.000	102	80.00-	120.00	100.00
1 Aroclor-1016			CAS #: 12674-11-2				
2.420	2.419	0.001	14089870 1000.00	961	80.00-	120.00	100.00
2.707	2.707	0.000	18254738 1000.00	996	106.82-	146.82	129.56
2.787	2.788	-0.001	11539563 1000.00	960	60.66-	100.66	81.90
2.826	2.826	0.000	6922359 1000.00	964	28.59-	68.59	49.13
3.036	3.036	0.000	8923226 1000.00	960	42.97-	82.97	63.33
Average of Peak Amounts =			968				
7 Aroclor-1260			CAS #: 11096-82-5				
3.761	3.762	-0.001	19002907 1000.00	1080	80.00-	120.00	100.00(M)
3.924	3.925	-0.001	28995739 1000.00	1090	132.12-	172.12	152.59
4.154	4.155	-0.001	17302329 1000.00	1090	70.53-	110.53	91.05
4.297	4.297	0.000	18016442 1000.00	1090	75.55-	115.55	94.81
4.476	4.477	-0.001	41342662 1000.00	1110	197.21	237.21	217.56
Average of Peak Amounts =			1.09e+03				

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdda.i/020510.b/022f2201.d

Date : 05-FEB-2010 10:51

Client ID: AR166002

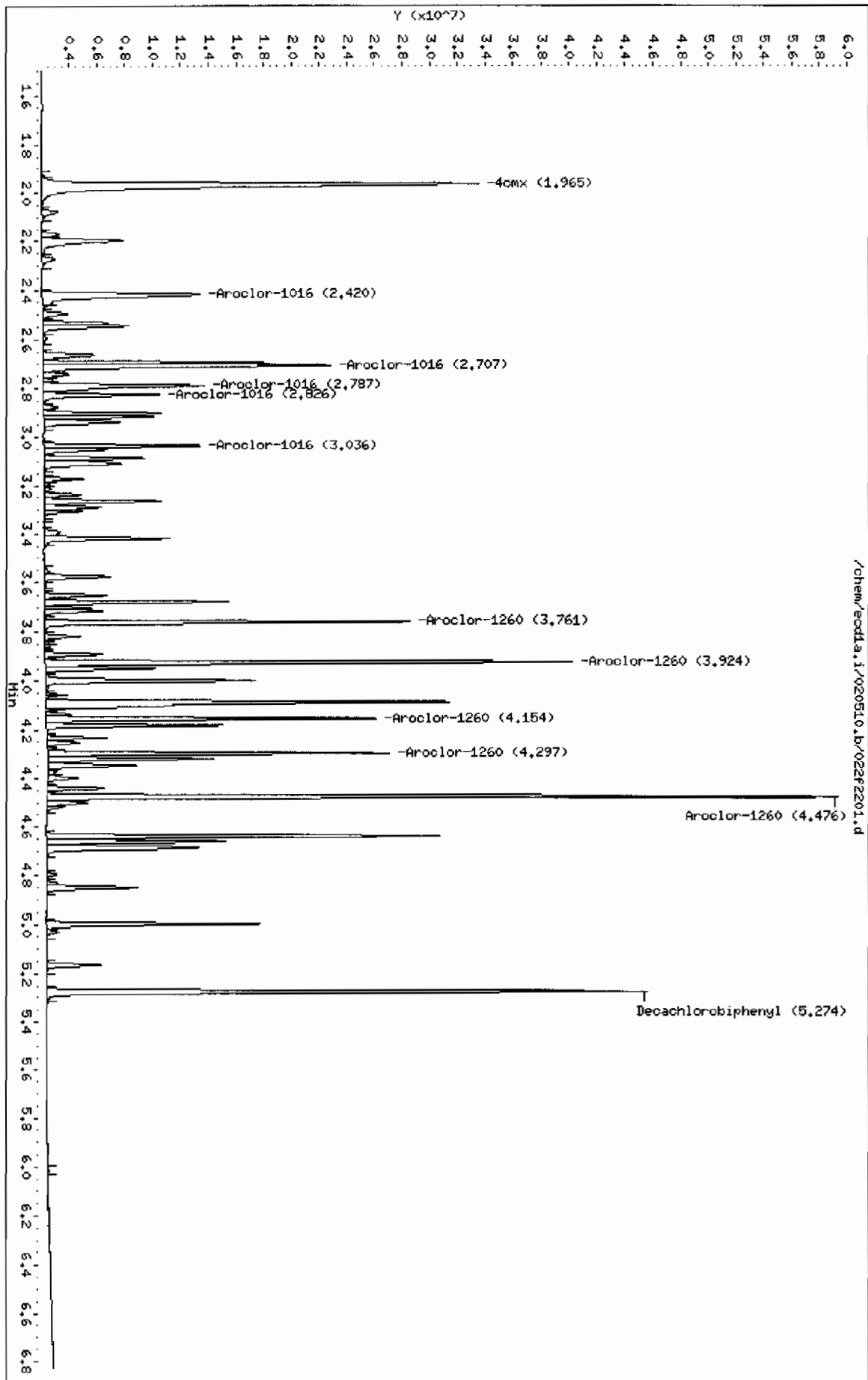
Sample Info: 114R100203-60 02

Column phase: CLP1

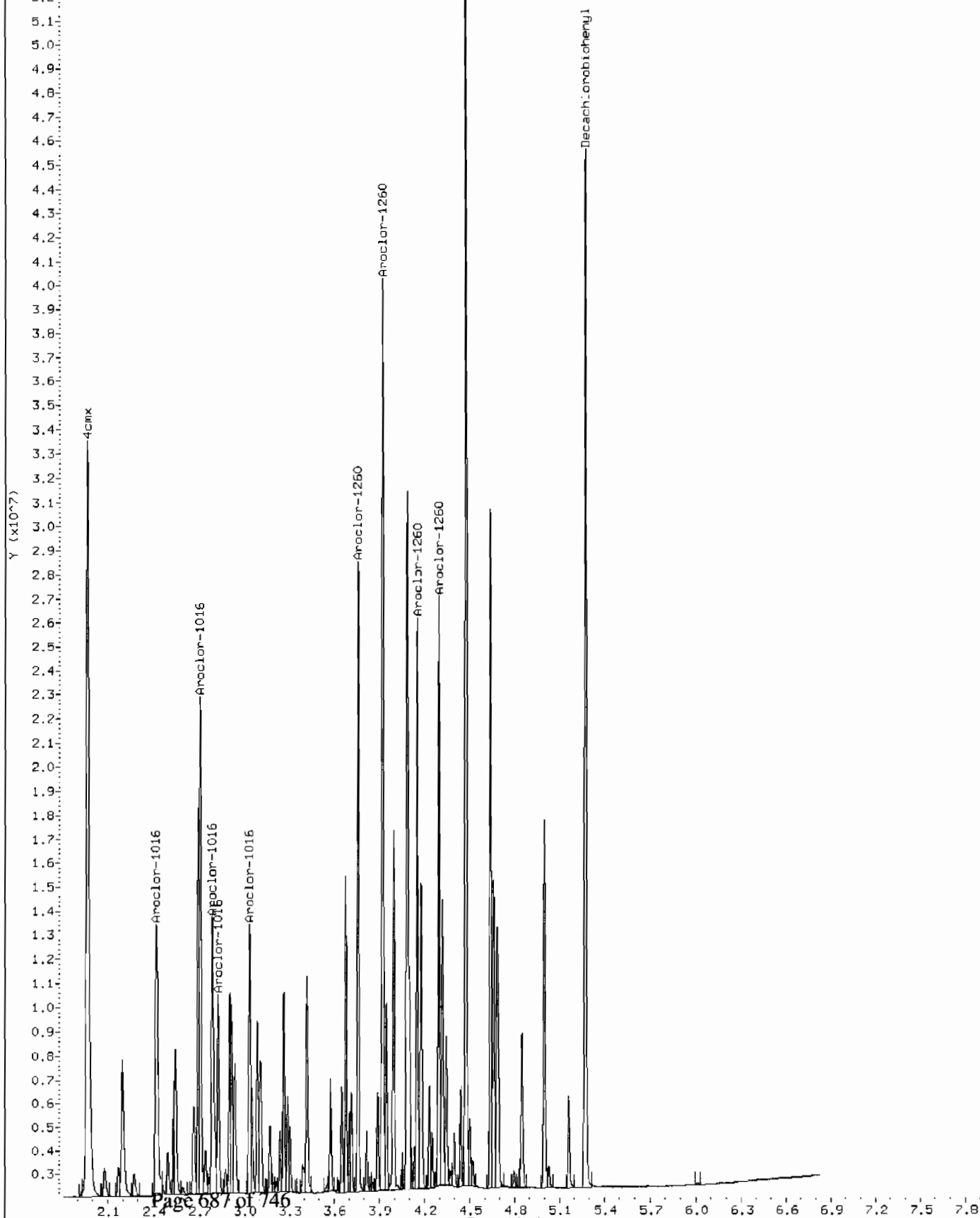
Instrument: ecdda.i

Operator: YSL

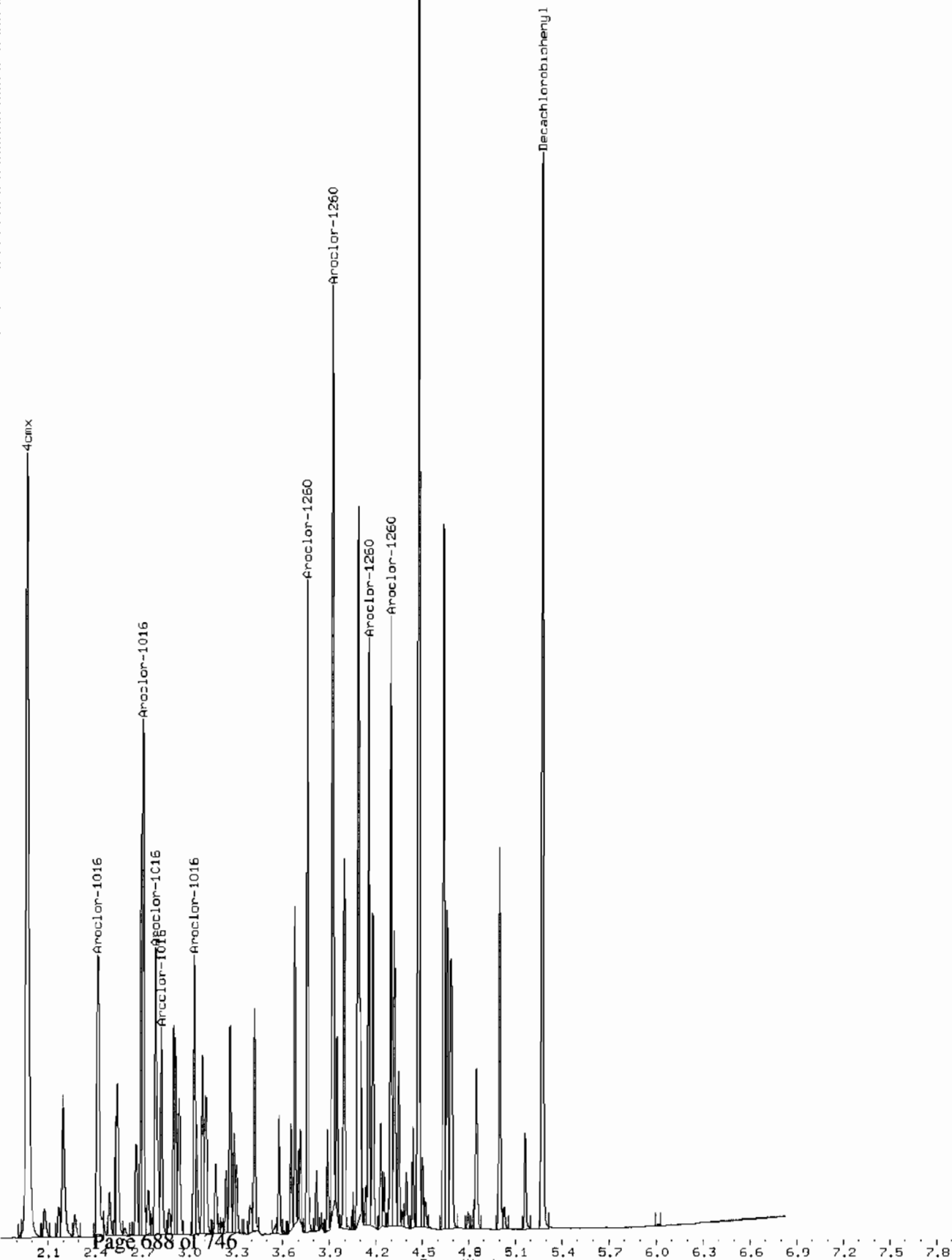
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecdla.i/020510.b/022f2201.d
Operator: YSl
Injection Date: 05-FEB-2010 10:51
Instrument: ecdla.i
Client Sample ID: AR166002



5.9
5.8
5.7
5.6
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5.4
5.3
5.2
5.1
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4.9
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2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3



Report Date: 05-Feb-2010 11:31

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file: /chem/ecdl1a.i/020510.b/022b2201.d

Lab Smp Id: WAR100203-60 02

Client Smp ID: AR166002

Inj Date: 05-FEB-2010 10:51

Operator: YS1

Inst ID: ecd1a.i

Smp Info: |WAR100203-60 02

Misc Info:

Comment:

Method: /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date: 05-Feb-2010 11:30 yip00818

Quant Type: ESTD

Cal Date: 22-JAN-2010 08:47

Cal File: 017b1701.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
RT	RT	RT	RT	RT	RT	RT
\$ 11 4cmx				CAS #: 877 09 8		
2.297	2.296	0.001	28991286 100.000	101 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.941	5.942	-0.001	22228765 100.000	102 80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2		
3.192	3.192	0.000	12553096 1000.00	1000 80.00- 120.00	100.00	
3.275	3.275	0.000	8166105 1000.00	955 45.05- 85.05	65.05	
3.338	3.339	-0.001	5045053 1000.00	954 20.19- 60.19	40.19	
3.565	3.565	0.000	6628313 1000.00	973 32.80- 72.80	52.80	
3.641	3.641	0.000	6123429 1000.00	956 28.78- 68.78	48.78	
Average of Peak Amounts =				969		

7 Aroclor-1260				CAS #: 11096-82-5		
4.331	4.332	-0.001	13388385 1000.00	1060 80.00- 120.00	100.00	
4.456	4.457	-0.001	16291509 1000.00	1070 101.68- 141.68	121.68	
4.722	4.722	0.000	12420564 1000.00	1070 72.77- 112.77	92.77	
4.896	4.896	0.000	12892265 1000.00	1070 76.29- 116.29	96.29	
5.042	5.043	-0.001	28894660 1000.00	1110 195.82- 235.82	215.82	
Average of Peak Amounts =				1.07e+03		

Data File: /chem/ecdda.i/020510.b/02b2201.d

Date: 05-FEB-2010 10:51

Client ID: AR166002

Sample Info: IMR100203-60 02

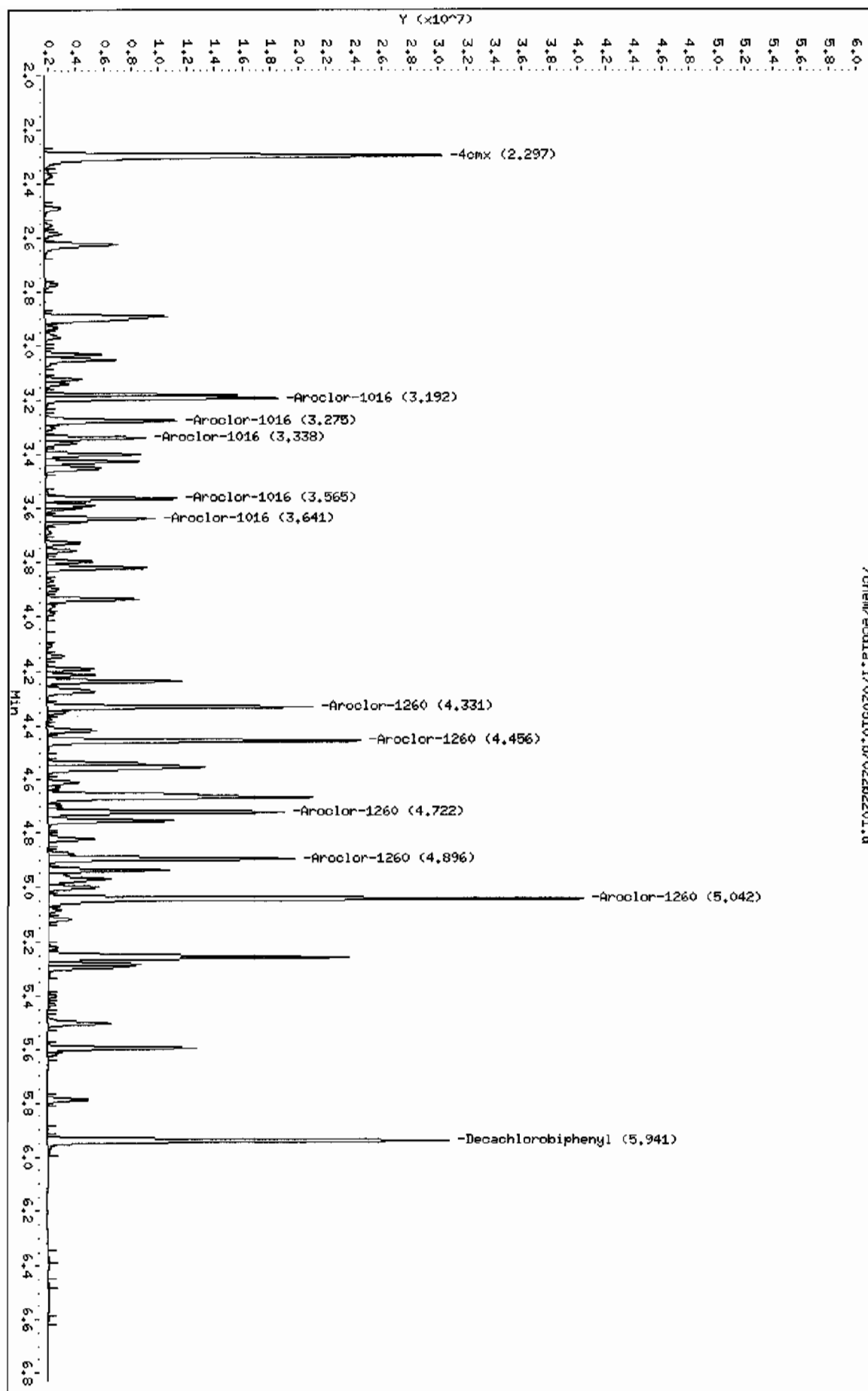
Column phase: CLP2

Instrument: ecdda.i

Operator: YS1

Column diameter: 0.25

Page 1



Report Date: 05-Feb-2010 13:50

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file: /chem/ecdl1a.i/020510.b/031f3101.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date: 05-FEB-2010 12:40

Operator: YS1

Inst ID: ecd1a.i

Smp Info: |WAR100203-60 03

Misc Info:

Comment:

Method: /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date: 05-Feb-2010 13:50 yip00818

Quant Type: ESTD

Cal Date: 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
1.966	1.965	0.001	40459975 100.000	101	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
5.274	5.275	-0.001	32629917 100.000	101	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674 11 2			
2.420	2.419	0.001	14012607 1000.00	956	80.00- 120.00	100.00	
2.708	2.707	0.001	18319018 1000.00	1000	110.73- 150.73	130.73	
2.788	2.788	0.000	11547800 1000.00	960	62.41- 102.41	82.41	
2.826	2.826	0.000	6929943 1000.00	965	29.46- 69.46	49.46	
3.036	3.036	0.000	8939714 1000.00	962	43.80- 83.80	63.80	
Average of Peak Amounts =				969			

7 Aroclor-1260				CAS #: 11096-82-5			
3.761	3.762	-0.001	18972126 1000.00	1080	80.00- 120.00	100.00	
3.924	3.925	-0.001	28835947 1000.00	1080	131.99- 171.99	151.99	
4.154	4.155	-0.001	17204186 1000.00	1080	70.68- 110.68	90.68	
4.297	4.297	0.000	18148577 1000.00	1100	75.66- 115.66	95.66	
4.476	4.477	-0.001	41262621 1000.00	1110	197.49- 237.49	217.49	
Average of Peak Amounts =				1.09e+03			

Data File: /chem/ecdda.i/020510.b/031f3101.d

Date: 05-FEB-2010 12:40

Client ID: AR166003

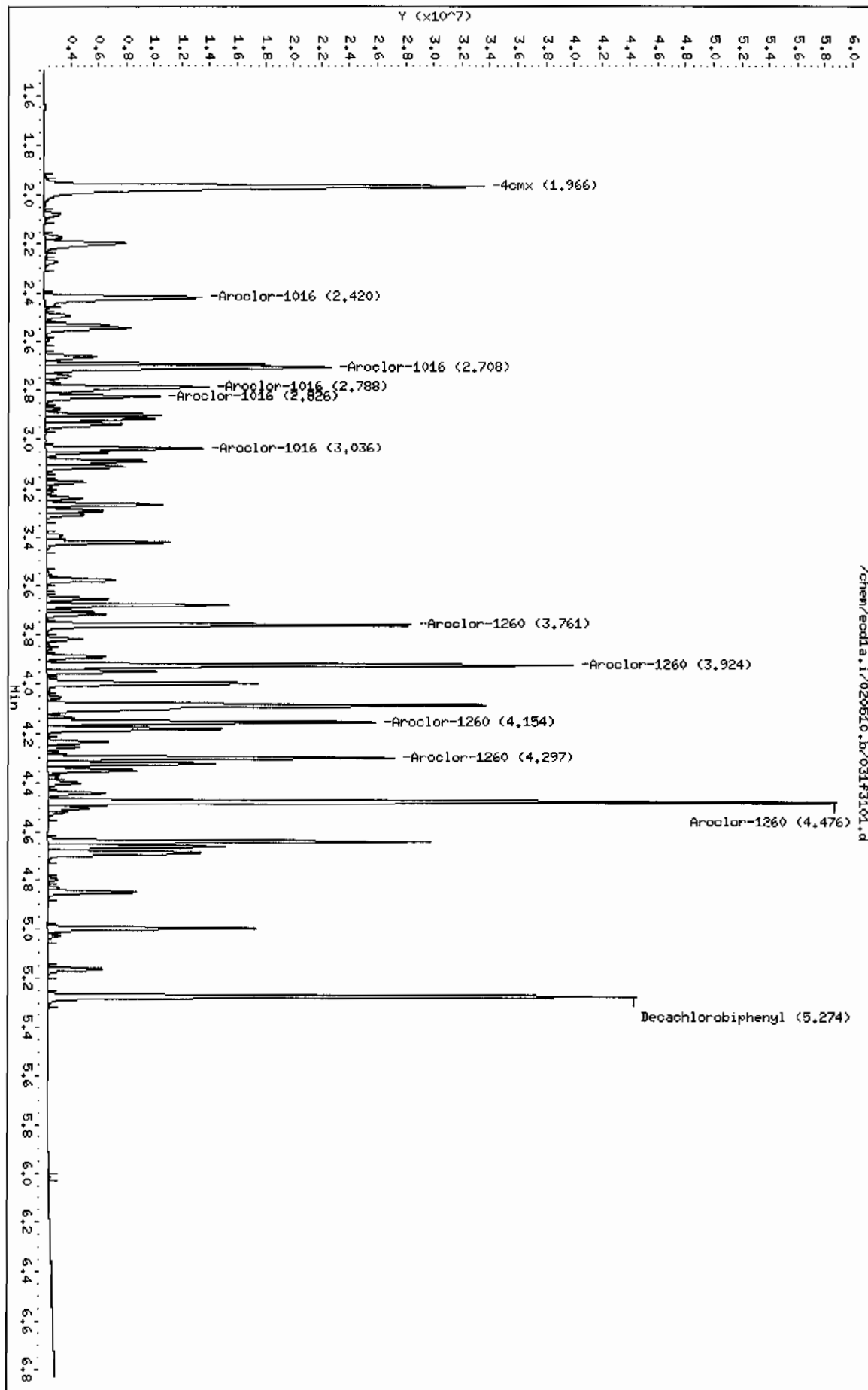
Sample Info: IMR100203-60 03

Column phase: CLP1

Instrument: ecdda.i

Operator: YSL

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/031b3101.d

Lab Smp Id: WAR100203-60 03

Client Smp ID: AR166003

Inj Date : 05-FEB-2010 12:40

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |WAR100203-60 03

Misc Info :

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m

Meth Date : 05-Feb-2010 13:50 yip00818

Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017b1701.d

Als bottle: 31

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

Processing Host: hpc1p1

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
---	-----	-----	-----	-----	-----	-----
\$ 11 4cmx				CAS #: 877-09-8		
2.297	2.296	0.001	28690788 100.000	99.9	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
5.941	5.942	-0.001	21926681 100.000	101	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
3.192	3.192	0.000	12359615 1000.00	990	80.00- 120.00	100.00(M)
3.275	3.275	0.000	8069931 1000.00	944	45.29- 85.29	65.29
3.338	3.339	-0.001	4988684 1000.00	943	20.36- 60.36	40.36
3.565	3.565	0.000	6345906 1000.00	931	31.34- 71.34	51.34
3.641	3.641	0.000	6017327 1000.00	940	38.11- 78.11	58.11
Average of Peak Amounts =				950		

7 Aroclor-1260				CAS #: 11096-82-5		
4.331	4.332	-0.001	13242341 1000.00	1050	80.00- 120.00	100.00
4.456	4.457	0.001	16223303 1000.00	1060	102.51- 142.51	122.51
4.722	4.722	0.000	12301397 1000.00	1060	72.89- 112.89	92.89
4.895	4.896	-0.001	12694909 1000.00	1050	75.87- 115.87	95.87
5.043	5.043	0.000	28307638 1000.00	1080	193.77- 233.77	213.77
Average of Peak Amounts =				1.06e+03		

QC Flag Legend

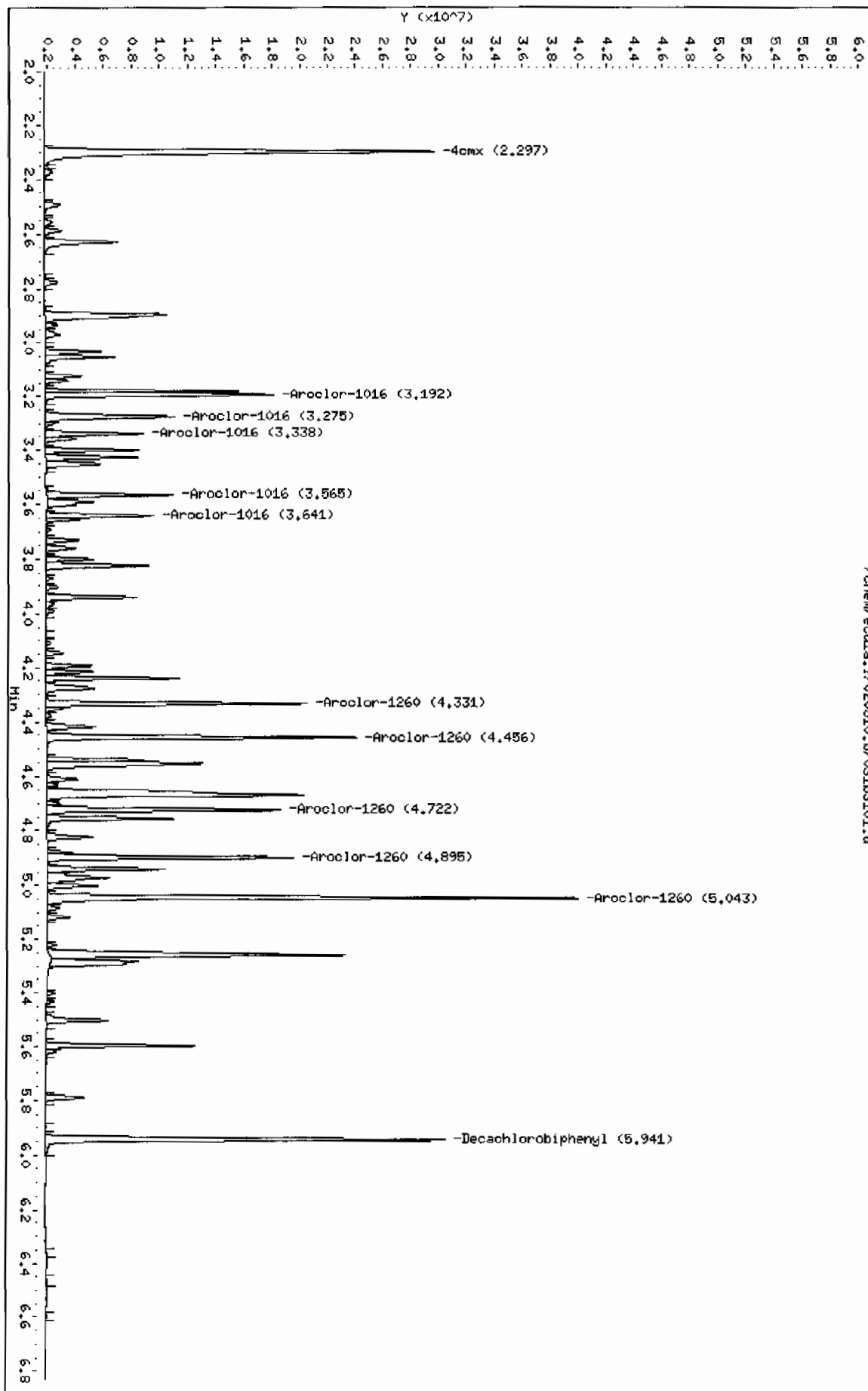
M - Compound response manually integrated.

Data File: /chem/ecdda.i/020510.b/031b3101.d
Date: 05-FEB-2010 12:40
Client ID: AR166003
Sample Info: IHR100203-60 03

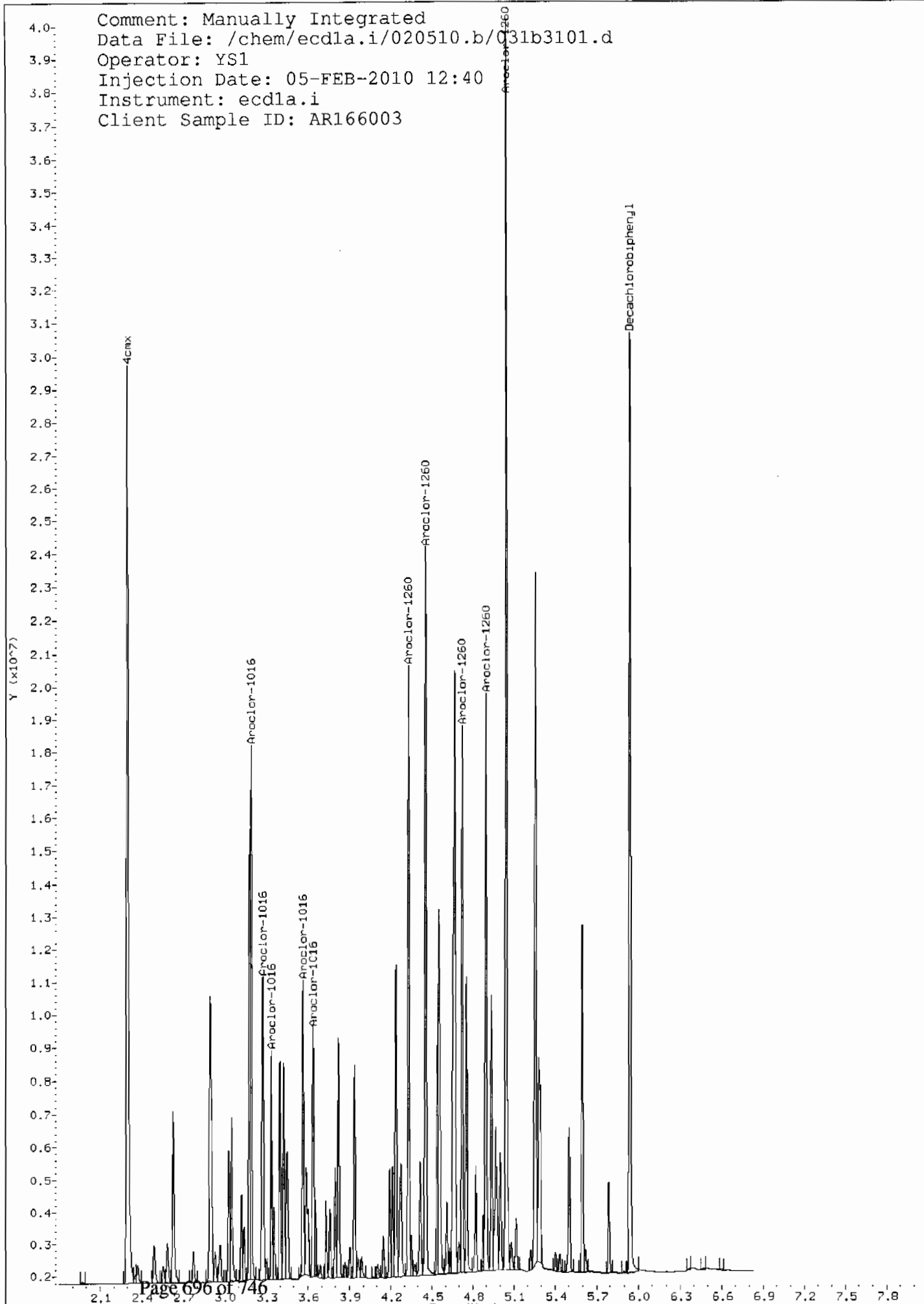
Column phase: CLP2

/chem/ecdda.i/020510.b/031b3101.d

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25

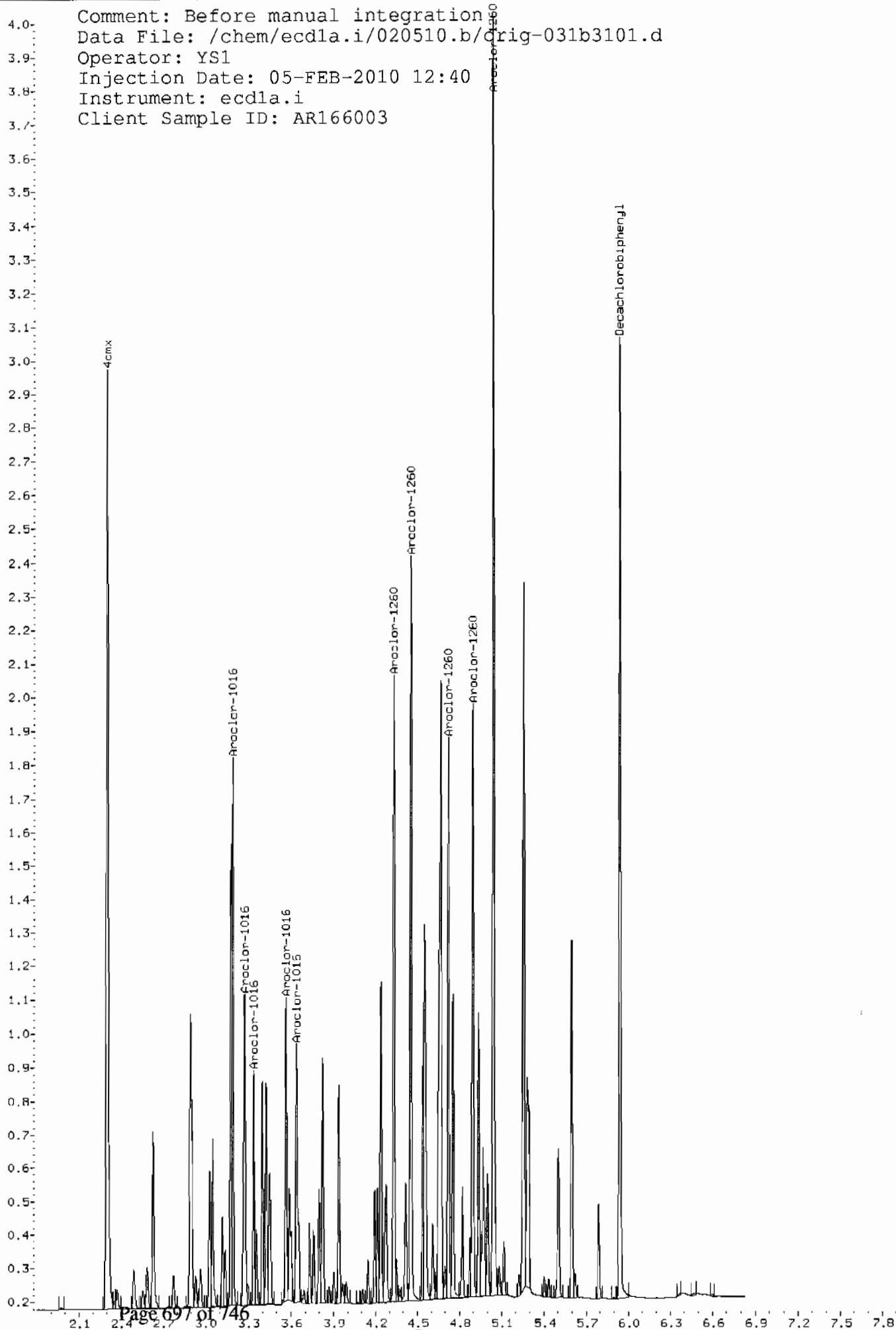


Comment: Manually Integrated
Data File: /chem/ecdl1a.i/020510.b/C31b3101.d
Operator: YS1
Injection Date: 05-FEB-2010 12:40
Instrument: ecd1a.i
Client Sample ID: AR166003



Comment: Before manual integration
Data File: /chem/ecdl1a.i/020510.b/orig-031b3101.d
Operator: YS1
Injection Date: 05-FEB-2010 12:40
Instrument: ecd1a.i
Client Sample ID: AR166003

Y (x10⁷)



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.: 10-1470

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 1.97				DCB: 5.29			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01	PIBLK01	WAR091130-99	12/14/09	0444	1.97	5.29	
02	ZZZZZ	ZZZZZ	12/14/09	0454	1.97	5.29	
03	ZZZZZ	ZZZZZ	12/14/09	0505	1.97	5.29	
04	ZZZZZ	ZZZZZ	12/14/09	0515	1.97	5.29	
05	ZZZZZ	ZZZZZ	12/14/09	0526	1.97	5.29	
06	AR123201	WAR090930-32	12/14/09	0536	1.97	5.29	
07	AR122101	WAR090803-21	12/14/09	0547	1.97	5.29	
08	AR126201	WAR090803-62	12/14/09	0558	1.97	5.29	
09	ZZZZZ	ZZZZZ	12/14/09	0608	1.97	5.29	
10	ZZZZZ	ZZZZZ	12/14/09	0619	1.97	5.29	
11	ZZZZZ	ZZZZZ	12/14/09	0629	1.97	5.29	
12	ZZZZZ	ZZZZZ	12/14/09	0640	1.97	5.29	
13	ZZZZZ	ZZZZZ	12/14/09	0650	1.97	5.29	
14	ZZZZZ	ZZZZZ	12/14/09	0701	1.97	5.29	
15	ZZZZZ	ZZZZZ	12/14/09	0711	1.97	5.29	
16	AR125401	WAR091214-05	12/14/09	0722	1.97	5.29	
17	AR125402	WAR091214-06	12/14/09	0732	1.97	5.29	
18	AR125403	WAR091214-07	12/14/09	0743	1.97	5.29	
19	AR125404	WAR091214-08	12/14/09	0753	1.97	5.29	
20	AR125405	IAR091027-01	12/14/09	0804	1.97	5.29	
21	AR125401	WAR091102-54	12/14/09	0814	1.97	5.29	
22	AR124201	WAR091214-09	12/14/09	0825	1.97	5.29	
23	AR124202	WAR091214-10	12/14/09	0835	1.97	5.29	
24	AR124203	WAR091214-11	12/14/09	0846	1.97	5.29	
25	AR124204	WAR091214-12	12/14/09	0856	1.97	5.29	
26	AR124205	IAR0911111-0	12/14/09	0907	1.97	5.29	
27	AR124201	WAR091102-42	12/14/09	0917	1.97	5.29	
28	AR124801	WAR091214-13	12/14/09	0928	1.97	5.29	
29	AR124802	WAR091214-14	12/14/09	0938	1.97	5.29	
30	AR124803	WAR091214-15	12/14/09	0949	1.97	5.29	
31	AR124804	WAR091214-16	12/14/09	0959	1.97	5.29	
32	AR124805	IAR091027-02	12/14/09	1010	1.97	5.29	

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.

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.97			DCB: 5.29		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR124801	WAR091027-48	12/14/09 1020	1.97	5.29
02	AR166001	WAR091214-01	12/14/09 1031	1.97	5.29
03	AR166002	WAR091214-02	12/14/09 1041	1.97	5.29
04	AR166003	WAR091214-03	12/14/09 1052	1.97	5.29
05	AR166004	WAR091214-04	12/14/09 1102	1.97	5.29
06	AR166005	IAR091102-01	12/14/09 1113	1.97	5.29
07	AR166001	WAR091211-60	12/14/09 1123	1.97	5.29
08	AR126801	WAR091214-17	12/14/09 1134	1.97	5.29
09	AR126802	WAR091214-18	12/14/09 1144	1.97	5.29
10	AR126803	WAR091214-19	12/14/09 1155	1.97	5.29
11	AR126804	WAR091214-20	12/14/09 1206	1.97	5.29
12	AR126805	IAR090817-02	12/14/09 1216	1.97	5.29
13	AR126801	WAR091106-68	12/14/09 1227	1.97	5.29
14	DDTANALOGSTD	WAR091020-DD	12/14/09 1237		
15	PIBLK02	WAR091130-99	12/14/09 1248	1.97	5.29
16	ZZZZZ	ZZZZZ	12/14/09 1258	1.97	5.29
17	ZZZZZ	ZZZZZ	12/14/09 1309	1.97	5.29
18	ZZZZZ	ZZZZZ	12/14/09 1319	1.97	5.29
19	ZZZZZ	ZZZZZ	12/14/09 1330	1.97	5.29
20	ZZZZZ	ZZZZZ	12/14/09 1340	1.97	5.29
21	ZZZZZ	ZZZZZ	12/14/09 1351	1.97	5.29
22	ZZZZZ	ZZZZZ	12/14/09 1403	1.97	5.29
23	ZZZZZ	ZZZZZ	12/14/09 1416	1.97	5.29
24	ZZZZZ	ZZZZZ	12/14/09 1429	1.97	5.29
25	ZZZZZ	ZZZZZ	12/14/09 1441	1.97	5.29
26	AR166002	WAR091211-60	12/14/09 1452	1.97	5.29
27	PIBLK03	WAR091130-99	12/14/09 1502	1.97	5.29
28	ZZZZZ	ZZZZZ	12/14/09 1513	1.97	5.29
29	ZZZZZ	ZZZZZ	12/14/09 1525	1.97	5.29
30	ZZZZZ	ZZZZZ	12/14/09 1538	1.97	5.29
31	ZZZZZ	ZZZZZ	12/14/09 1551	1.97	5.29
32	ZZZZZ	ZZZZZ	12/14/09 1603	1.97	5.27

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.30				DCB: 5.94			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#	#
01 PIBLK01	WAR091130-99	12/14/09	0444	2.30	5.95		
02 ZZZZZ	ZZZZZ	12/14/09	0454	2.30	5.94		
03 ZZZZZ	ZZZZZ	12/14/09	0505	2.30	5.95		
04 ZZZZZ	ZZZZZ	12/14/09	0515	2.30	5.95		
05 ZZZZZ	ZZZZZ	12/14/09	0526	2.30	5.95		
06 AR123201	WAR090930-32	12/14/09	0536	2.30	5.95		
07 AR122101	WAR090803-21	12/14/09	0547	2.30	5.95		
08 AR126201	WAR090803-62	12/14/09	0558	2.30	5.94		
09 ZZZZZ	ZZZZZ	12/14/09	0608	2.30	5.94		
10 ZZZZZ	ZZZZZ	12/14/09	0619	2.30	5.95		
11 ZZZZZ	ZZZZZ	12/14/09	0629	2.30	5.94		
12 ZZZZZ	ZZZZZ	12/14/09	0640	2.30	5.94		
13 ZZZZZ	ZZZZZ	12/14/09	0650	2.30	5.95		
14 ZZZZZ	ZZZZZ	12/14/09	0701	2.30	5.94		
15 ZZZZZ	ZZZZZ	12/14/09	0711	2.30	5.95		
16 AR125401	WAR091214-05	12/14/09	0722	2.30	5.94		
17 AR125402	WAR091214-06	12/14/09	0732	2.30	5.94		
18 AR125403	WAR091214-07	12/14/09	0743	2.30	5.94		
19 AR125404	WAR091214-08	12/14/09	0753	2.30	5.94		
20 AR125405	IAR091027-01	12/14/09	0804	2.30	5.95		
21 AR125401	WAR091102-54	12/14/09	0814	2.30	5.94		
22 AR124201	WAR091214-09	12/14/09	0825	2.30	5.94		
23 AR124202	WAR091214-10	12/14/09	0835	2.30	5.94		
24 AR124203	WAR091214-11	12/14/09	0846	2.30	5.94		
25 AR124204	WAR091214-12	12/14/09	0856	2.30	5.94		
26 AR124205	IAR0911111-0	12/14/09	0907	2.30	5.94		
27 AR124201	WAR091102-42	12/14/09	0917	2.30	5.94		
28 AR124801	WAR091214-13	12/14/09	0928	2.30	5.94		
29 AR124802	WAR091214-14	12/14/09	0938	2.30	5.94		
30 AR124803	WAR091214-15	12/14/09	0949	2.30	5.94		
31 AR124804	WAR091214-16	12/14/09	0959	2.30	5.94		
32 AR124805	IAR091027-02	12/14/09	1010	2.30	5.94		

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
 DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

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.: 10-1470

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 12/14/09

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.30			DCB: 5.94		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	AR124801	WAR091027-48	12/14/09	1020	2.30 5.95
02	AR166001	WAR091214-01	12/14/09	1031	2.30 5.94
03	AR166002	WAR091214-02	12/14/09	1041	2.30 5.94
04	AR166003	WAR091214-03	12/14/09	1052	2.30 5.94
05	AR166004	WAR091214-04	12/14/09	1102	2.30 5.94
06	AR166005	IAR091102-01	12/14/09	1113	2.30 5.94
07	AR166001	WAR091211-60	12/14/09	1123	2.30 5.94
08	AR126801	WAR091214-17	12/14/09	1134	
09	AR126802	WAR091214-18	12/14/09	1144	
10	AR126803	WAR091214-19	12/14/09	1155	
11	AR126804	WAR091214-20	12/14/09	1206	
12	AR126805	IAR090817-02	12/14/09	1216	
13	AR126801	WAR091106-68	12/14/09	1227	2.30 5.94
14	DDTANALOGSTD	WAR091020-DD	12/14/09	1237	
15	PIBLK02	WAR091130-99	12/14/09	1248	2.30 5.94
16	ZZZZZ	ZZZZZ	12/14/09	1258	2.30 5.94
17	ZZZZZ	ZZZZZ	12/14/09	1309	2.30 5.94
18	ZZZZZ	ZZZZZ	12/14/09	1319	2.30 5.94
19	ZZZZZ	ZZZZZ	12/14/09	1330	2.30 5.94
20	ZZZZZ	ZZZZZ	12/14/09	1340	2.30 5.94
21	ZZZZZ	ZZZZZ	12/14/09	1351	2.30 5.94
22	ZZZZZ	ZZZZZ	12/14/09	1403	2.30 5.94
23	ZZZZZ	ZZZZZ	12/14/09	1416	2.30 5.94
24	ZZZZZ	ZZZZZ	12/14/09	1429	2.30 5.94
25	ZZZZZ	ZZZZZ	12/14/09	1441	2.30 5.94
26	AR166002	WAR091211-60	12/14/09	1452	2.30 5.94
27	PIBLK03	WAR091130-99	12/14/09	1502	2.30 5.94
28	ZZZZZ	ZZZZZ	12/14/09	1513	2.30 5.94
29	ZZZZZ	ZZZZZ	12/14/09	1525	2.30 5.94
30	ZZZZZ	ZZZZZ	12/14/09	1538	2.30 5.94
31	ZZZZZ	ZZZZZ	12/14/09	1551	2.30 5.94
32	ZZZZZ	ZZZZZ	12/14/09	1603	2.30 5.94

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

page 2 of 2

FORM VIII PEST

OLM03.0

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/28/10 01/28/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 1.97			DCB: 5.28			
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01	PIBLK01	WAR100105-99	01/28/10	0916	1.97	5.28
02	ZZZZZ	ZZZZZ	01/28/10	0927		
03	AR125401	WAR091216-54	01/28/10	0937		
04	AR124201	WAR091217-42	01/28/10	0948		
05	AR124801	WAR091217-48	01/28/10	0958		
06	AR123201	WAR100104-32	01/28/10	1009		
07	AR122101	WAR100104-21	01/28/10	1019		
08	AR126201	WAR100104-62	01/28/10	1030		
09	ZZZZZ	ZZZZZ	01/28/10	1040		
10	AR166001	WAR100128-01	01/28/10	1051	1.97	5.28
11	AR166002	WAR100128-02	01/28/10	1101	1.97	5.28
12	AR166003	WAR100128-03	01/28/10	1112	1.97	5.28
13	AR166004	WAR100128-04	01/28/10	1122	1.97	5.28
14	AR166005	IAR100104-01	01/28/10	1134	1.97	5.28
15	AR166001	WAR100104-60	01/28/10	1144	1.97	5.28
16	ZZZZZ	ZZZZZ	01/28/10	1155		
17	DDTANALOGSTD	WAR091219-DD	01/28/10	1205		
18	AR126801	WAR100128-05	01/28/10	1218		
19	AR126802	WAR100128-06	01/28/10	1229		
20	AR126803	WAR100128-07	01/28/10	1239		
21	AR126804	WAR100128-08	01/28/10	1250		
22	AR126805	IAR100104-05	01/28/10	1300		
23	AR126801	WAR100107-68	01/28/10	1311		
24	PIBLK02	WAR100105-99	01/28/10	1321	1.97	5.28
25	ZZZZZ	ZZZZZ	01/28/10	1332	1.97	5.28
26	ZZZZZ	ZZZZZ	01/28/10	1342	1.97	5.28
27	ZZZZZ	ZZZZZ	01/28/10	1353	1.97	5.28
28	ZZZZZ	ZZZZZ	01/28/10	1405	1.97	5.28
29	ZZZZZ	ZZZZZ	01/28/10	1418	1.97	5.28
30	ZZZZZ	ZZZZZ	01/28/10	1430	1.97	5.28
31	ZZZZZ	ZZZZZ	01/28/10	1443	1.97	5.28
32	AR166002	WAR100104-60	01/28/10	1456	1.97	5.28

QC LIMITS

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.: 10-1470

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/28/10 01/28/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.30			DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #	
01 PIBLK01	WAR100105-99	01/28/10	0916	2.30	5.94	
02 ZZZZZ	ZZZZZ	01/28/10	0927			
03 AR125401	WAR091216-54	01/28/10	0937			
04 AR124201	WAR091217-42	01/28/10	0948			
05 AR124801	WAR091217-48	01/28/10	0958			
06 AR123201	WAR100104-32	01/28/10	1009			
07 AR122101	WAR100104-21	01/28/10	1019			
08 AR126201	WAR100104-62	01/28/10	1030			
09 ZZZZZ	ZZZZZ	01/28/10	1040			
10 AR166001	WAR100128-01	01/28/10	1051	2.30	5.94	
11 AR166002	WAR100128-02	01/28/10	1101	2.30	5.94	
12 AR166003	WAR100128-03	01/28/10	1112	2.30	5.95	
13 AR166004	WAR100128-04	01/28/10	1122	2.30	5.95	
14 AR166005	IAR100104-01	01/28/10	1134	2.30	5.95	
15 AR166001	WAR100104-60	01/28/10	1144	2.30	5.94	
16 ZZZZZ	ZZZZZ	01/28/10	1155			
17 DDTANALOGSTD	WAR091219-DD	01/28/10	1205			
18 AR126801	WAR100128-05	01/28/10	1218			
19 AR126802	WAR100128-06	01/28/10	1229			
20 AR126803	WAR100128-07	01/28/10	1239			
21 AR126804	WAR100128-08	01/28/10	1250			
22 AR126805	IAR100104-05	01/28/10	1300			
23 AR126801	WAR100107-68	01/28/10	1311			
24 PIBLK02	WAR100105-99	01/28/10	1321	2.30	5.94	
25 ZZZZZ	ZZZZZ	01/28/10	1332	2.30	5.94	
26 ZZZZZ	ZZZZZ	01/28/10	1342	2.30	5.94	
27 ZZZZZ	ZZZZZ	01/28/10	1353	2.30	5.94	
28 ZZZZZ	ZZZZZ	01/28/10	1405	2.30	5.94	
29 ZZZZZ	ZZZZZ	01/28/10	1418	2.30	5.94	
30 ZZZZZ	ZZZZZ	01/28/10	1430	2.30	5.94	
31 ZZZZZ	ZZZZZ	01/28/10	1443	2.30	5.94	
32 AR166002	WAR100104-60	01/28/10	1456	2.30	5.94	

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GEL LABORATORIES LLC Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 01/29/10 01/29/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.97		DCB: 5.28			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	01/29/10	0612	
02	ZZZZZ	ZZZZZ	01/29/10	0622	
03	AR125401	WAR091216-54	01/29/10	0633	
04	AR124201	WAR091217-42	01/29/10	0643	
05	AR124801	WAR091217-48	01/29/10	0654	
06	AR123201	WAR100104-32	01/29/10	0704	
07	AR122101	WAR100104-21	01/29/10	0715	
08	AR126201	WAR100104-62	01/29/10	0725	
09	AR126801	WAR100107-68	01/29/10	0736	
10	AR166001	WAR100129-01	01/29/10	0746	
11	AR166002	WAR100129-02	01/29/10	0757	
12	AR166003	WAR100129-03	01/29/10	0807	
13	AR166004	WAR100129-04	01/29/10	0818	
14	AR166005	IAR100104-01	01/29/10	0859	
15	AR166001	WAR100104-60	01/29/10	0909	
16	DDTANALOGSTD	WAR091219-DD	01/29/10	0920	
17	PIBLK02	WAR100105-99	01/29/10	0930	
18	ZZZZZ	ZZZZZ	01/29/10	0941	
19	ZZZZZ	ZZZZZ	01/29/10	0951	
20	ZZZZZ	ZZZZZ	01/29/10	1002	
21	ZZZZZ	ZZZZZ	01/29/10	1014	
22	ZZZZZ	ZZZZZ	01/29/10	1027	
23	ZZZZZ	ZZZZZ	01/29/10	1040	
24	ZZZZZ	ZZZZZ	01/29/10	1052	
25	ZZZZZ	ZZZZZ	01/29/10	1105	
26	ZZZZZ	ZZZZZ	01/29/10	1117	
27	ZZZZZ	ZZZZZ	01/29/10	1130	
28	AR166002	WAR100104-60	01/29/10	1142	
29	PIBLK03	WAR100105-99	01/29/10	1153	
30	ZZZZZ	ZZZZZ	01/29/10	1203	
31	ZZZZZ	ZZZZZ	01/29/10	1216	
32	ZZZZZ	ZZZZZ	01/29/10	1228	

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: GEL LABORATORIES LLC Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 01/29/10 01/29/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.30		DCB: 5.95			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	01/29/10 0612	2.30	5.94
02	ZZZZZ	ZZZZZ	01/29/10 0622	2.30	5.94
03	AR125401	WAR091216-54	01/29/10 0633		
04	AR124201	WAR091217-42	01/29/10 0643		
05	AR124801	WAR091217-48	01/29/10 0654		
06	AR123201	WAR100104-32	01/29/10 0704		
07	AR122101	WAR100104-21	01/29/10 0715		
08	AR126201	WAR100104-62	01/29/10 0725		
09	AR126801	WAR100107-68	01/29/10 0736		
10	AR166001	WAR100129-01	01/29/10 0746	2.30	5.94
11	AR166002	WAR100129-02	01/29/10 0757	2.30	5.94
12	AR166003	WAR100129-03	01/29/10 0807	2.30	5.94
13	AR166004	WAR100129-04	01/29/10 0818	2.30	5.94
14	AR166005	IAR100104-01	01/29/10 0859	2.30	5.95
15	AR166001	WAR100104-60	01/29/10 0909	2.30	5.95
16	DDTANALOGSTD	WAR091219-DD	01/29/10 0920		
17	PIBLK02	WAR100105-99	01/29/10 0930	2.30	5.94
18	ZZZZZ	ZZZZZ	01/29/10 0941	2.30	5.94
19	ZZZZZ	ZZZZZ	01/29/10 0951	2.30	5.94
20	ZZZZZ	ZZZZZ	01/29/10 1002	2.30	5.94
21	ZZZZZ	ZZZZZ	01/29/10 1014	2.30	5.94
22	ZZZZZ	ZZZZZ	01/29/10 1027	2.30	5.94
23	ZZZZZ	ZZZZZ	01/29/10 1040	2.30	5.94
24	ZZZZZ	ZZZZZ	01/29/10 1052	2.30	5.94
25	ZZZZZ	ZZZZZ	01/29/10 1105	2.30	5.94
26	ZZZZZ	ZZZZZ	01/29/10 1117	2.30	5.94
27	ZZZZZ	ZZZZZ	01/29/10 1130	2.30	5.94
28	AR166002	WAR100104-60	01/29/10 1142	2.30	5.94
29	PIBLK03	WAR100105-99	01/29/10 1153	2.30	5.94
30	ZZZZZ	ZZZZZ	01/29/10 1203	2.30	5.94
31	ZZZZZ	ZZZZZ	01/29/10 1216	2.30	5.94
32	ZZZZZ	ZZZZZ	01/29/10 1228	2.30	5.94

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
 DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470
 GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 01/29/10
 Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 1.97		DCB: 5.27			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PIBLK01	WAR100105-99	02/05/10	0656	
02	AR166001	WAR100203-60	02/05/10	0706	
03	AR125401	WAR091216-54	02/05/10	0717	
04	AR124201	WAR091217-42	02/05/10	0727	
05	AR124801	WAR091217-48	02/05/10	0738	
06	AR123201	WAR100104-32	02/05/10	0748	
07	AR122101	WAR100104-21	02/05/10	0759	
08	AR166002	WAR100104-62	02/05/10	0809	
09	AR126801	WAR100107-68	02/05/10	0820	
10	DDTANALOGSTD	WAR091219-DD	02/05/10	0831	
11	PIBLK02	WAR100105-99	02/05/10	0841	1.97 5.28
12	PBLK01	1202033246	02/05/10	0852	1.97 5.28
13	PBLK01LCS	1202033247	02/05/10	0902	1.96 5.28
14	ZZZZZ	ZZZZZ	02/05/10	0913	1.96 5.28
15	RE15-10-7888	245795001	02/05/10	0923	1.96 5.28
16	RE15-10-7890	245795002	02/05/10	0936	1.96 5.27
17	RE15-10-7886	245795003	02/05/10	0948	1.96 5.27
18	RE15-10-7889	245795004	02/05/10	1001	1.96 5.27
19	RE15-10-7885	245795005	02/05/10	1013	1.97 5.28
20	RE15-10-7882	245795006	02/05/10	1026	1.96 5.28
21	RE15-10-7887	245795007	02/05/10	1039	1.96 5.27
22	AR166002	WAR100203-60	02/05/10	1051	1.96 5.27
23	PIBLK03	WAR100105-99	02/05/10	1102	1.97 5.28
24	RE15-10-7881	245795008	02/05/10	1112	1.97 5.28
25	ZZZZZ	ZZZZZ	02/05/10	1125	1.96 5.27
26	ZZZZZ	ZZZZZ	02/05/10	1137	1.96 5.27
27	ZZZZZ	ZZZZZ	02/05/10	1150	1.97 5.27
28	ZZZZZ	ZZZZZ	02/05/10	1203	1.96 5.27
29	ZZZZZ	ZZZZZ	02/05/10	1215	1.96 5.27
30	ZZZZZ	ZZZZZ	02/05/10	1228	1.96 5.27
31	AR166003	WAR100203-60	02/05/10	1240	1.97 5.27
32	PIBLK04	WAR100105-99	02/05/10	1251	1.97 5.28

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)
 DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1470

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 12/14/09 01/29/10

Instrument ID: ECD1A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.30		DCB: 5.94			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01 PIBLK01	WAR100105-99	02/05/10	0656	2.29	5.94
02 AR166001	WAR100203-60	02/05/10	0706	2.30	5.94
03 AR125401	WAR091216-54	02/05/10	0717		
04 AR124201	WAR091217-42	02/05/10	0727		
05 AR124801	WAR091217-48	02/05/10	0738		
06 AR123201	WAR100104-32	02/05/10	0748		
07 AR123201	WAR100104-21	02/05/10	0759		
08 AR126201	WAR100104-62	02/05/10	0809		
09 AR126801	WAR100107-68	02/05/10	0820		
10 DDTANALOGSTD	WAR091219-DD	02/05/10	0831		
11 PIBLK02	WAR100105-99	02/05/10	0841	2.30	5.94
12 PBLK01	1202033246	02/05/10	0852	2.30	5.94
13 PBLK01LCS	1202033247	02/05/10	0902	2.29	5.94
14 ZZZZZ	ZZZZZ	02/05/10	0913	2.30	5.94
15 RE15-10-7888	245795001	02/05/10	0923	2.30	5.94
16 RE15-10-7890	245795002	02/05/10	0936	2.30	5.94
17 RE15-10-7886	245795003	02/05/10	0948	2.30	5.94
18 RE15-10-7889	245795004	02/05/10	1001	2.30	5.94
19 RE15-10-7885	245795005	02/05/10	1013	2.30	5.94
20 RE15-10-7882	245795006	02/05/10	1026	2.30	5.94
21 RE15-10-7887	245795007	02/05/10	1039	2.30	5.94
22 AR166002	WAR100203-60	02/05/10	1051	2.30	5.94
23 PIBLK03	WAR100105-99	02/05/10	1102	2.30	5.94
24 RE15-10-7881	245795008	02/05/10	1112	2.30	5.94
25 ZZZZZ	ZZZZZ	02/05/10	1125	2.30	5.94
26 ZZZZZ	ZZZZZ	02/05/10	1137	2.30	5.94
27 ZZZZZ	ZZZZZ	02/05/10	1150	2.30	5.94
28 ZZZZZ	ZZZZZ	02/05/10	1203	2.30	5.94
29 ZZZZZ	ZZZZZ	02/05/10	1215	2.30	5.94
30 ZZZZZ	ZZZZZ	02/05/10	1228	2.30	5.94
31 AR166003	WAR100203-60	02/05/10	1240	2.30	5.94
32 PIBLK04	WAR100105-99	02/05/10	1251	2.30	5.94

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

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FORM VIII PEST

OLM03.0

Identification Summary

Page 1 of 1

SDG Number: 10-1470

Client ID: LCS for batch 949031

Lab Sample ID: 1202033247

Data File: 013f1301.d

Data File: 013b1301.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 09:02

Analyzed: 05-FEB-10 09:02

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							.689
Column 1	1	2.42	2.39 – 2.45	20.2		ug/kg	
	2	2.71	2.68 – 2.74	20.8		ug/kg	
	3	2.79	2.76 – 2.82	20		ug/kg	
	4	2.83	2.8 – 2.86	20.2		ug/kg	
	5	3.04	3.01 – 3.07	20		ug/kg	
					20.2		
Column 2	1	3.19	3.16 – 3.22	20.9		ug/kg	
	2	3.27	3.24 – 3.3	20.3		ug/kg	
	3	3.34	3.31 – 3.37	19.5		ug/kg	
	4	3.57	3.53 – 3.59	19.8		ug/kg	
	5	3.64	3.61 – 3.67	20		ug/kg	
					20.1		
Aroclor-1260							.412
Column 1	1	3.76	3.73 – 3.79	23.2		ug/kg	
	2	3.93	3.89 – 3.95	23.4		ug/kg	
	3	4.16	4.12 – 4.18	23.7		ug/kg	
	4	4.3	4.27 – 4.33	23.9		ug/kg	
	5	4.48	4.45 – 4.51	24.4		ug/kg	
					23.7		
Column 2	1	4.33	4.3 – 4.36	22.9		ug/kg	
	2	4.46	4.43 – 4.49	23.5		ug/kg	
	3	4.72	4.69 – 4.75	23.7		ug/kg	
	4	4.9	4.87 – 4.93	23.4		ug/kg	
	5	5.04	5.01 – 5.07	24.6		ug/kg	
					23.6		

Identification Summary

Page 1 of 1

SDG Number: 10-1470

Client ID: RE15-10-7885

Lab Sample ID: 245795005

Data File: 019f1901.d

Data File: 019b1901.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 10:13

Analyzed: 05-FEB-10 10:13

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							14.5
Column 1	1	3.26	3.24 – 3.3	2.84		ug/kg	
	2	3.42	3.39 – 3.45	2.51		ug/kg	
	3	3.65	3.62 – 3.68	3.36		ug/kg	
	4	3.82	3.79 – 3.85	3.05		ug/kg	
	5	3.92	3.9 – 3.96	5.42		ug/kg	
					3.44		
Column 2	1	3.4	3.37 – 3.43	2.47		ug/kg	
	2	3.82	3.79 – 3.85	3.08		ug/kg	
	3	3.94	3.91 – 3.97	3.39		ug/kg	
	4	4.22	4.19 – 4.25	2.22		ug/kg	
	5	4.35	4.32 – 4.38	3.68		ug/kg	
					2.97		

Identification Summary

Page 1 of 2

SDG Number: 10-1470

Client ID: RE15-10-7889

Lab Sample ID: 245795004

Data File: 018f1801.d

Data File: 018b1801.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 10:01

Analyzed: 05-FEB-10 10:01

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							46.2
<i>Column 1</i>	1	3.26	3.24 - 3.3	30		ug/kg	
	2	3.42	3.39 - 3.45	35.1		ug/kg	
	3	3.66	3.62 - 3.68	32.5		ug/kg	
	4	3.82	3.79 - 3.85	37.4		ug/kg	
	5	3.92	3.9 - 3.96	49.2		ug/kg	
					36.8		
<i>Column 2</i>	1	3.4	3.37 - 3.43	17.9		ug/kg	
	2	3.82	3.79 - 3.85	21		ug/kg	
	3	3.94	3.91 - 3.97	34.2		ug/kg	
	4	4.22	4.19 - 4.25	9.66		ug/kg	
	5	4.35	4.32 - 4.38	32.2		ug/kg	
					23		
Aroclor-1260							11.9
<i>Column 1</i>	1	3.76	3.73 - 3.79	24.9		ug/kg	
	2	3.92	3.89 - 3.95	28		ug/kg	
	3	4.15	4.12 - 4.18	20.4		ug/kg	
	4	4.29	4.27 - 4.33	20.1		ug/kg	
	5	4.48	4.45 - 4.51	10.1		ug/kg	
					20.7		
<i>Column 2</i>	1	4.33	4.3 - 4.36	27.1		ug/kg	
	2	4.46	4.43 - 4.49	27.5		ug/kg	
	3	4.72	4.69 - 4.75	26.9		ug/kg	
	4	4.9	4.87 - 4.93	22.8		ug/kg	
	5	5.04	5.01 - 5.07	12.3		ug/kg	
					23.3		

Identification Summary

Page 2 of 2

SDG Number: 10-1470

Client ID: RE15-10-7889

Lab Sample ID: 245795004

Data File: 018f1801.d

Data File: 018b1801.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 10:01

Analyzed: 05-FEB-10 10:01

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1268							10.5
Column 1	1	4.66	4.63 - 4.69	17.1		ug/kg	
	2	4.68	4.66 - 4.72	19.7		ug/kg	
	3	4.8	4.77 - 4.83	13.5		ug/kg	
	4	5	4.97 - 5.03	22.4		ug/kg	
	5	5.16	5.14 - 5.2	19.6		ug/kg	
					18.5		
Column 2	1	5.25	5.23 - 5.29	22.8		ug/kg	
	2	5.28	5.25 - 5.31	21.3		ug/kg	
	3	5.43	5.4 - 5.46	17		ug/kg	
	4	5.6	5.57 - 5.63	18.3		ug/kg	
	5	5.79	5.76 - 5.82	23.1		ug/kg	
					20.5		

Identification Summary

Page 1 of 2

SDG Number: 10-1470

Client ID: RE15-10-7890

Lab Sample ID: 245795002

Data File: 016f1601.d

Data File: 016b1601.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 09:36

Analyzed: 05-FEB-10 09:36

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1254							43.2
<i>Column 1</i>	1	3.26	3.24 - 3.3	2.03		ug/kg	
	2	3.42	3.39 - 3.45	2.49		ug/kg	
	3	3.65	3.62 - 3.68	2.64		ug/kg	
	4	3.82	3.79 - 3.85	2.88		ug/kg	
	5	3.92	3.9 - 3.96	4.34		ug/kg	
					2.88		
<i>Column 2</i>	1	3.4	3.37 - 3.43	1.6		ug/kg	
	2	3.82	3.79 - 3.85	1.56		ug/kg	
	3	3.94	3.91 - 3.97	2.41		ug/kg	
	4	4.22	4.19 - 4.25	1.43		ug/kg	
	5	4.35	4.32 - 4.38	2.28		ug/kg	
					1.85		
Aroclor-1260							6.71
<i>Column 1</i>	1	3.76	3.73 - 3.79	2.28		ug/kg	
	2	3.92	3.89 - 3.95	2.47		ug/kg	
	3	4.15	4.12 - 4.18	3.34		ug/kg	
	4	4.3	4.27 - 4.33	4.82		ug/kg	
	5	4.48	4.45 - 4.51	1.46		ug/kg	
					2.87		
<i>Column 2</i>	1	4.33	4.3 - 4.36	3.18		ug/kg	
	2	4.46	4.43 - 4.49	2.96		ug/kg	
	3	4.72	4.69 - 4.75	4.01		ug/kg	
	4	4.9	4.87 - 4.93	3.49		ug/kg	
	5	5.04	5.01 - 5.07	1.72		ug/kg	
					3.07		

Identification Summary

Page 2 of 2

SDG Number: 10-1470

Client ID: RE15-10-7890

Lab Sample ID: 245795002

Data File: 016f1601.d

Data File: 016b1601.d

Inst: ECD1A.I_1

Inst: ECD1A.I_2

Column: CLP1

Column: CLP2

Analyzed: 05-FEB-10 09:36

Analyzed: 05-FEB-10 09:36

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1268							39.8
Column 1	1	4.66	4.63 - 4.69	2.66		ug/kg	
	2	4.68	4.66 - 4.72	3.42		ug/kg	
	3	4.8	4.77 - 4.83	2.22		ug/kg	
	4	5	4.97 - 5.03	3.95		ug/kg	
	5	5.16	5.14 - 5.2	2.84		ug/kg	
					3.02		
Column 2	1	5.25	5.23 - 5.29	3.68		ug/kg	
	2	5.28	5.25 - 5.31	4.19		ug/kg	
	3	5.43	5.4 - 5.46	3.37		ug/kg	
	4	5.59	5.57 - 5.63	7.87		ug/kg	
	5	5.79	5.76 - 5.82	3.48		ug/kg	
					4.52		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470

Matrix: SOIL

Lab Sample ID: 1202033246

Client Sample: QC for batch 949031

Client: LANL010

Project: QC

Client ID: MB for batch 949031

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 949033

Inst: ECD1A.I

Dilution: 1

Run Date: 02/05/2010 08:52

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/04/2010 20:32

Aliquot: 30 g

Final Volume: 1 mL

Data File: 012f1201-1.d

Column: 1 CLP1

Level: LOW

012b1201-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1
11100-14-4	Aroclor-1268	U	3.33	ug/kg	1.11	3.33	1

Data File: /chem/ecdl1a.i/020510.b/012f1201-1.d
Report Date: 05-Feb-2010 10:08

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecdl1a.i/020510.b/012f1201-1.d

Lab Smp Id: 1202033246

Client Smp ID: PBLK01

Inj Date : 05-FEB-2010 08:52

Operator : YS1

Inst ID: ecd1a.i

Smp Info : |1202033246|1|

Misc Info : |ECD82P_1S|949033|SVA|QC A|SOIL|MB|

Comment :

Method : /chem/ecdl1a.i/020510.b/ECD1-F-8082-121409.m

Meth Date : 05-Feb-2010 08:39 yip00818 Quant Type: ESTD

Cal Date : 22-JAN-2010 08:47

Cal File: 017f1701.d

Als bottle: 12

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1470.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

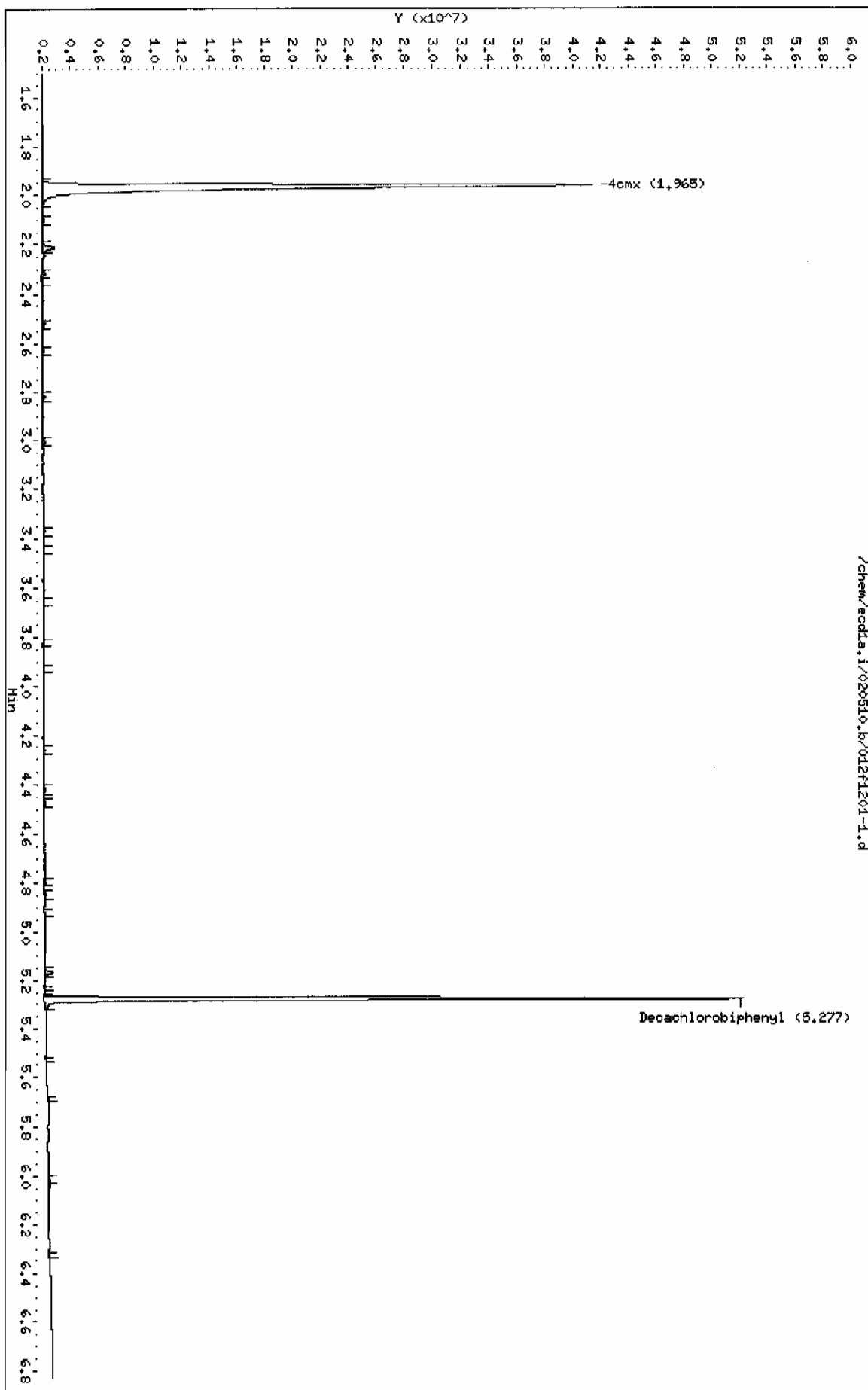
Cpnd Variable

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				
1.965	1.965	0.000	48584892	121.874	4.1	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
5.277	5.275	0.002	36515828	112.942	3.8	80.00- 120.00	100.00

Data File: /chem/ecdl1.i/020510.b/012F1201-1.d
Date : 05-FEB-2010 08:52
Client ID: PELK01
Sample Info: 11202033246111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/020510.b/012b1201-1.d
 Lab Smp Id: 1202033246 Client Smp ID: PBLK01
 Inj Date : 05-FEB-2010 08:52
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202033246|1|
 Misc Info : |ECD82P_1S|949033|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
 Meth Date : 05-Feb-2010 09:40 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1470.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

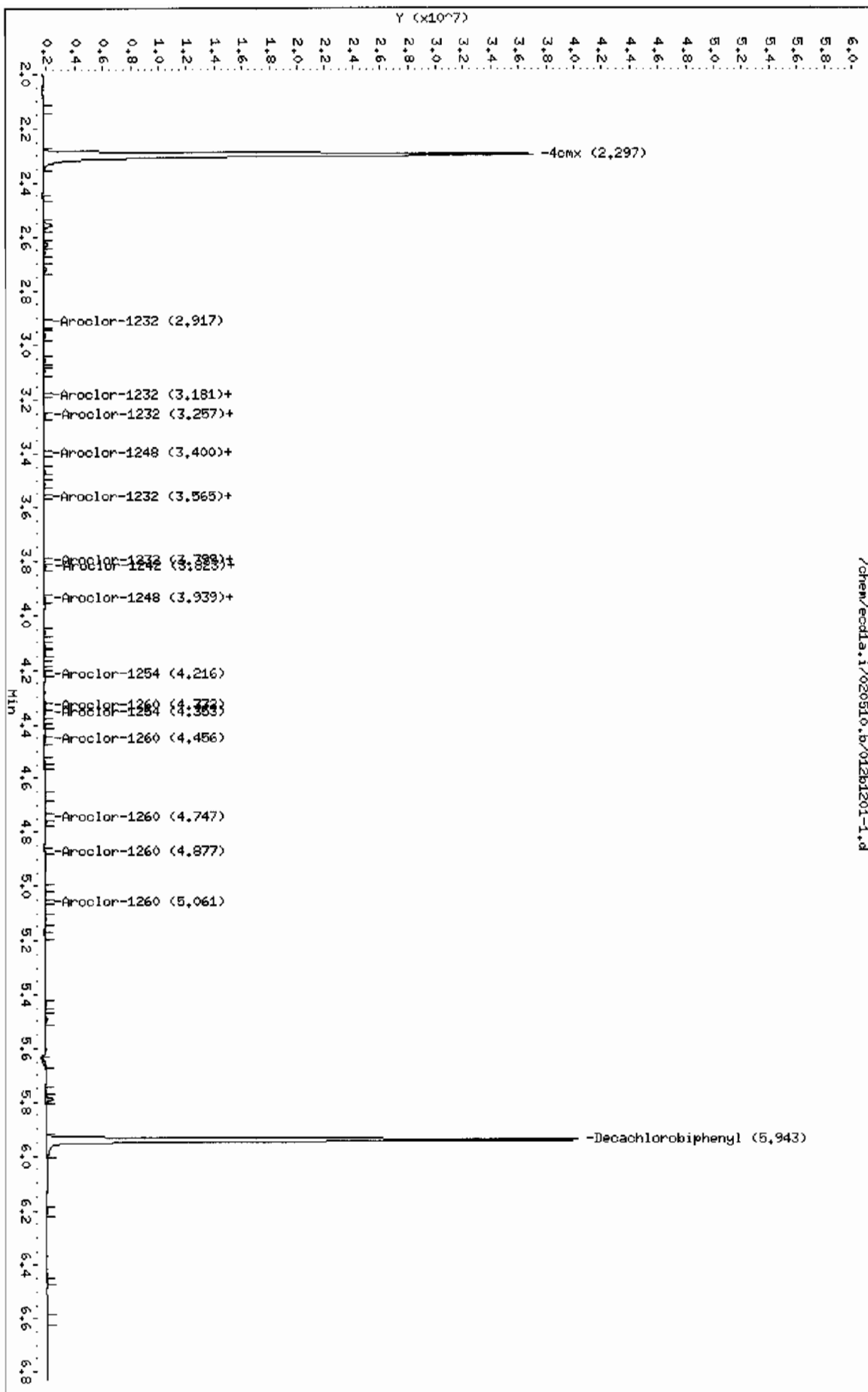
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
\$ 11 4cmx						
2.297	2.296	0.001	34903615	121.512	4.0 80.00- 120.00	100.00
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl						
5.943	5.942	0.001	29195934	134.155	4.5 80.00- 120.00	100.00

Data File: /chem/ecdl1.i/020510.b/012b1201-1.d
 Date: 05-FEB-2010 08:52
 Client ID: PELK01
 Sample Info: 1120203324611
 Volume Injected (uL): 1.0
 Column Phase: CLP2

Instrument: ecdl1.i
 Operator: YSL
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1470

Matrix: SOIL

Lab Sample ID: 1202033247

Client Sample: QC for batch 949031

Client: LANL010

Project: QC

Client ID: LCS for batch 949031

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 949033

Inst: ECD1A.I

Dilution: 1

Run Date: 02/05/2010 09:02

Analyst: YS1

Inj. Vol: 1 uL

Prep Date: 02/04/2010 20:32

Aliquot: 30 g

Final Volume: 1 mL

Data File: 013f1301-1.d

Column: 1 CLP1

Level: LOW

013b1301-1.d

2 CLP2

CAS No.	Parmuame	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		20.2	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		23.7	ug/kg	1.11	3.33	1
11100-14-4	Aroclor-1268	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecdla.i/020510.b/013f1301-1.d
Lab Smp Id: 1202033247 Client Smp ID: PBLK01LCS
Inj Date : 05-FEB-2010 09:02
Operator : YS1 Inst ID: ecdla.i
Smp Info : |1202033247|1|
Misc Info : |ECD82P_1S|949033|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecdla.i/020510.b/ECD1-F-8082-121409.m
Meth Date : 05-Feb-2010 08:39 yip00818 Quant Type: ESTD
Cal Date : 22-JAN-2010 08:47 Cal File: 017f1701.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1470.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			
1.964	1.965	-0.001	50013903	125.458	4.2 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
5.277	5.275	0.002	39702847	122.799	4.1 80.00- 120.00	100.00

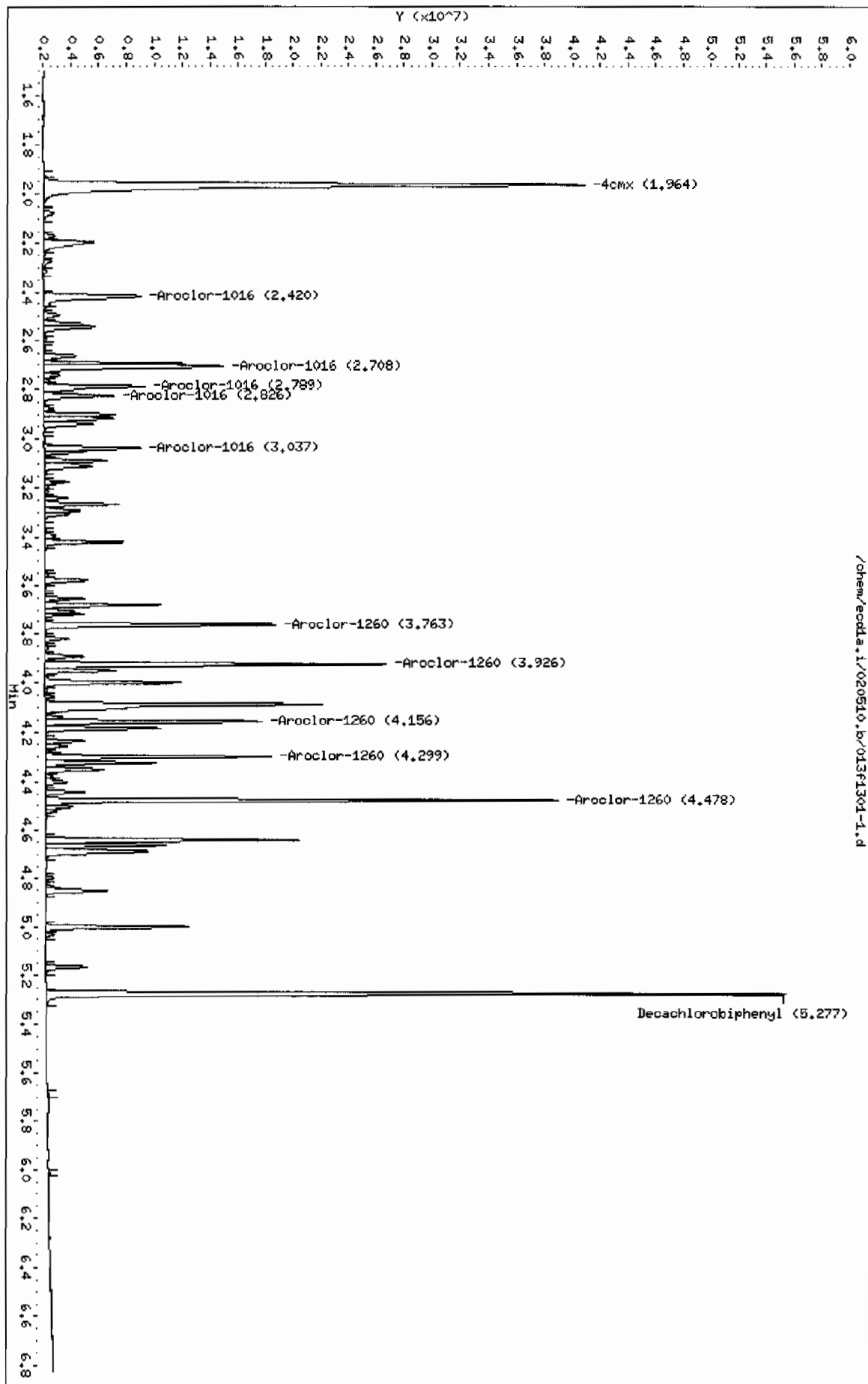
1 Aroclor-1016			CAS #: 12674-11-2			
2.420	2.419	0.001	8867856	604.950	20.2 80.00- 120.00	100.00
2.708	2.707	0.001	11431437	623.897	20.8 111.50- 151.50	128.91
2.789	2.788	0.001	7213810	599.968	20.0 62.41- 102.41	81.35
2.826	2.826	0.000	4356989	606.812	20.2 29.39 69.39	49.13

CONCENTRATIONS								
			ON-COM.		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE		RATIO
---	=====	=====	-----	-----	-----	-----	-----	-----
1 Aroclor-1016 (continued)								
3.037	3.036	0.001	5584390	601.132	20.0	44.74-	84.74	62.97
Average of Peak Concentrations =					20.2			

7 Aroclor-1260					CAS #: 11096-82-5			
3.763	3.762	0.001	12251339	694.656	23.2	80.00-	120.00	100.00
3.926	3.925	0.001	18755441	703.451	23.4	132.75-	172.75	153.09
4.156	4.155	0.001	11339517	712.208	23.7	70.75-	110.75	92.56
4.299	4.297	0.002	11864393	716.853	23.9	75.46-	115.46	96.84
4.478	4.477	0.001	27215780	732.880	24.4	198.55-	238.55	222.15
Average of Peak Concentrations =					23.7			

Data File: /chem/ecdda.i/020510.b/013f1301-1.d
Date : 05-FEB-2010 09:02
Client ID: PBLK01LCS
Sample Info: 1120203324711
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdda.i
Operator: YSL
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecdl1a.i/020510.b/013b1301-1.d
 Lab Smp Id: 1202033247 Client Smp ID: PBLK01LCS
 Inj Date : 05-FEB-2010 09:02
 Operator : YS1 Inst ID: ecd1a.i
 Smp Info : |1202033247|1|
 Misc Info : |ECD82P_1S|949033|SVA|QC A|SOIL|LCS|
 Comment :
 Method : /chem/ecdl1a.i/020510.b/ECD1-B-8082-121409.m
 Meth Date : 05-Feb-2010 09:40 yip00818 Quant Type: ESTD
 Cal Date : 22-JAN-2010 08:47 Cal File: 017b1701.d
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1470.sub
 Target Version: 3.50 Sample Matrix: Soil
 Processing Host: hpc1p1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
			RESPONSE (ug/L)	(ug/Kg)			
\$ 11 4cmx					CAS #: 877-09-8		
2.295	2.296	-0.001	35785063	124.581	4.2	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
5.943	5.942	0.001	29148749	133.938	4.5	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.192	3.192	0.000	7837768	627.787	20.9	80.00- 120.00	100.00(M)
3.275	3.275	0.000	5207354	609.274	20.3	46.71 86.71	66.44
3.340	3.339	0.001	3101086	586.135	19.5	21.11- 61.11	39.57
3.566	3.565	0.001	4040701	593.042	19.8	32.44- 72.44	51.55

CONCENTRATIONS								
			ON-COL	FTNAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====		
1 Aroclor-1016 (continued)								
3.642	3.641	0.001	3840836	599.683	20.0	29.96-	69.96	49.00
Average of Peak Concentrations =				20.1				

7 Aroclor-1260				CAS #: 11096-82-5				
4.332	4.332	0.000	8683387	686.743	22.9	80.00-	120.00	100.00
4.457	4.457	0.000	10720030	704.334	23.5	101.36-	141.36	123.45
4.723	4.722	0.001	8290264	711.578	23.7	72.42-	112.42	95.47
4.896	4.896	0.000	8478479	703.403	23.4	75.24-	115.24	97.64
5.044	5.043	0.001	19273891	739.359	24.6	194.19-	234.19	221.96
Average of Peak Concentrations =				23.6				

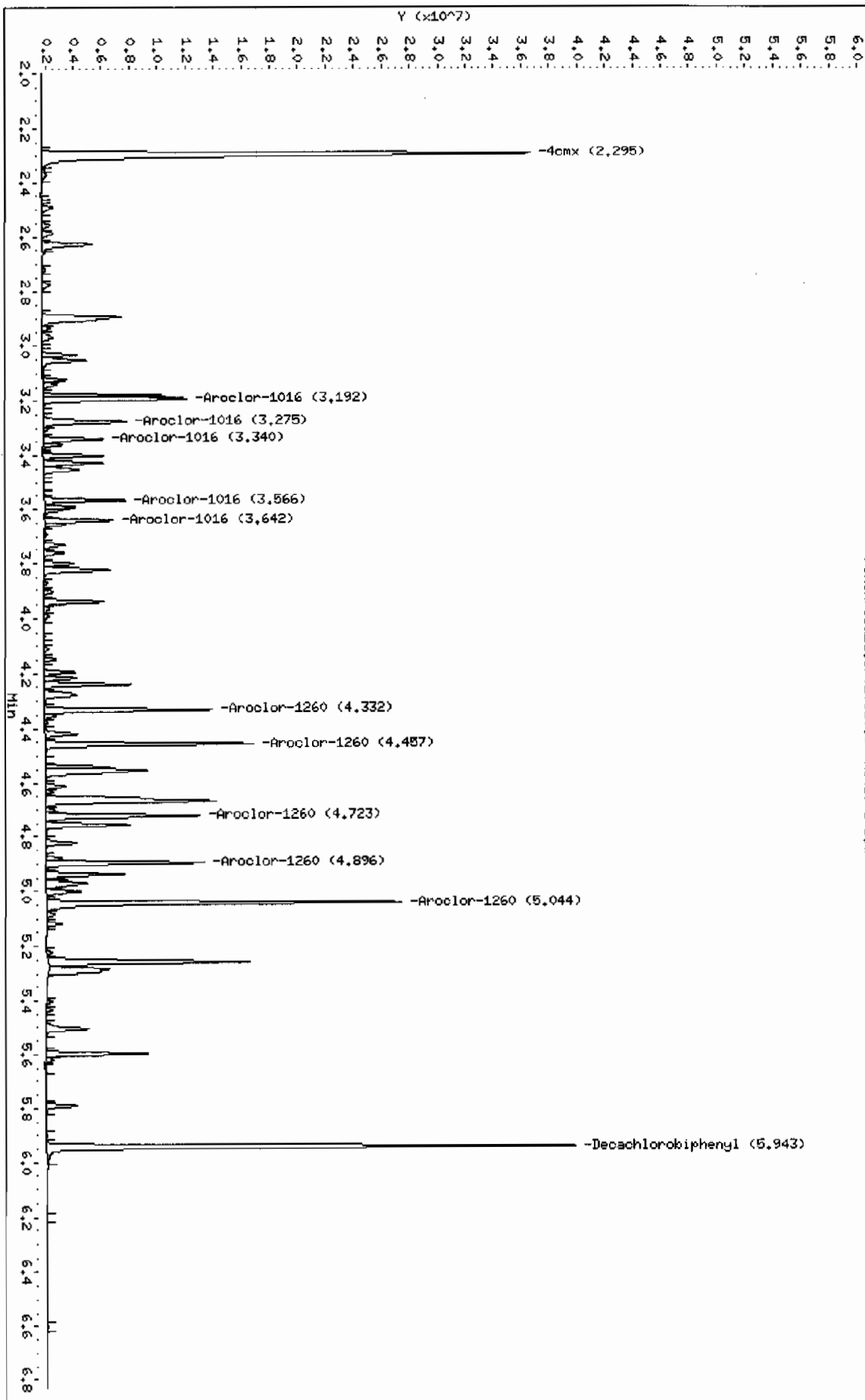
QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdl1.i/020510.b/013b1301-1.d
Date : 05-FEB-2010 09:02
Client ID: PBLK01LCS
Sample Info: 1120203324711
Volume Injected (uL): 1.0
Column Phase: CLP2

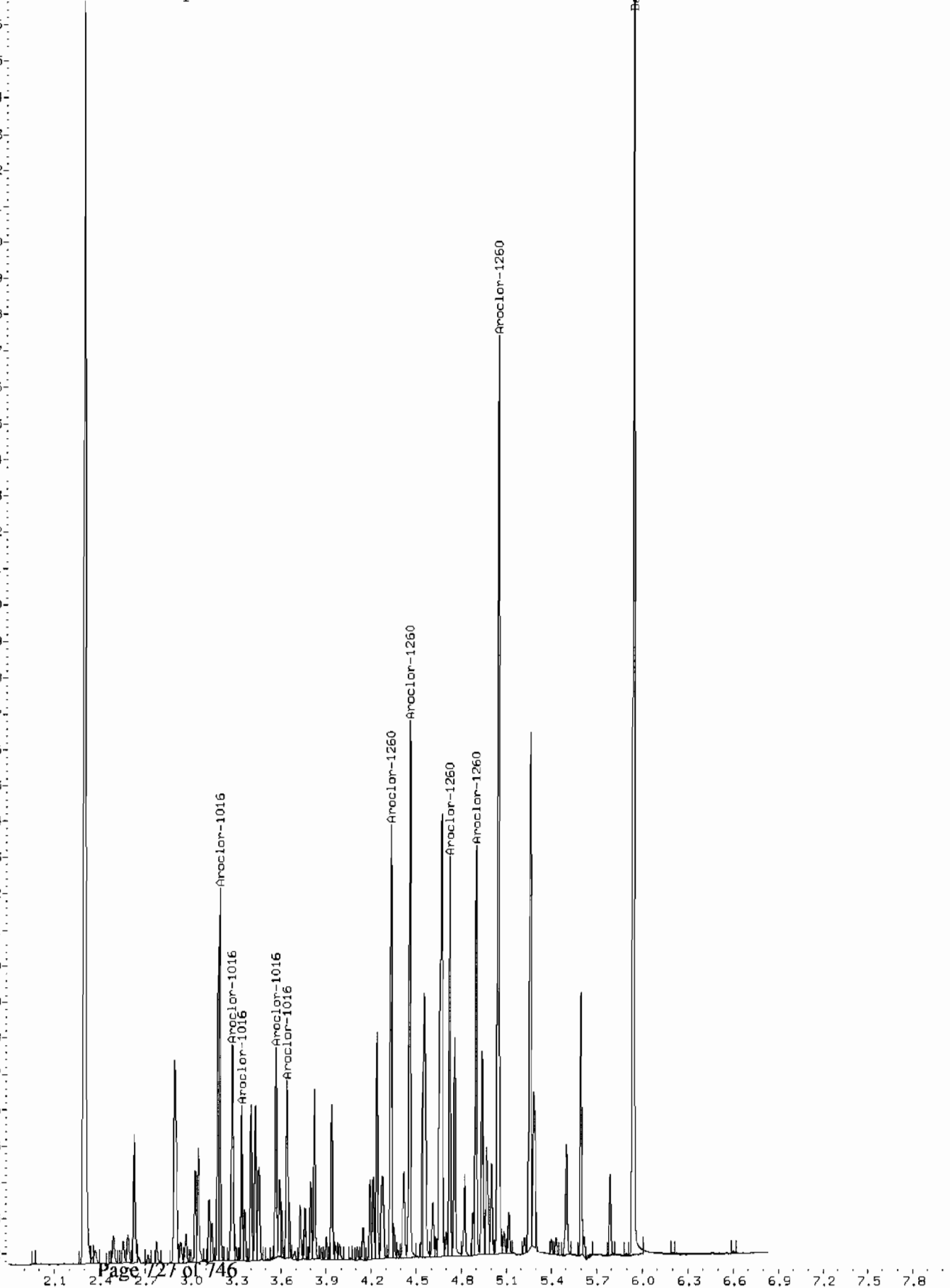
Instrument: ecdl1.i
Operator: YSL
Column diameter: 0.25

/chem/ecdl1.i/020510.b/013b1301-1.d



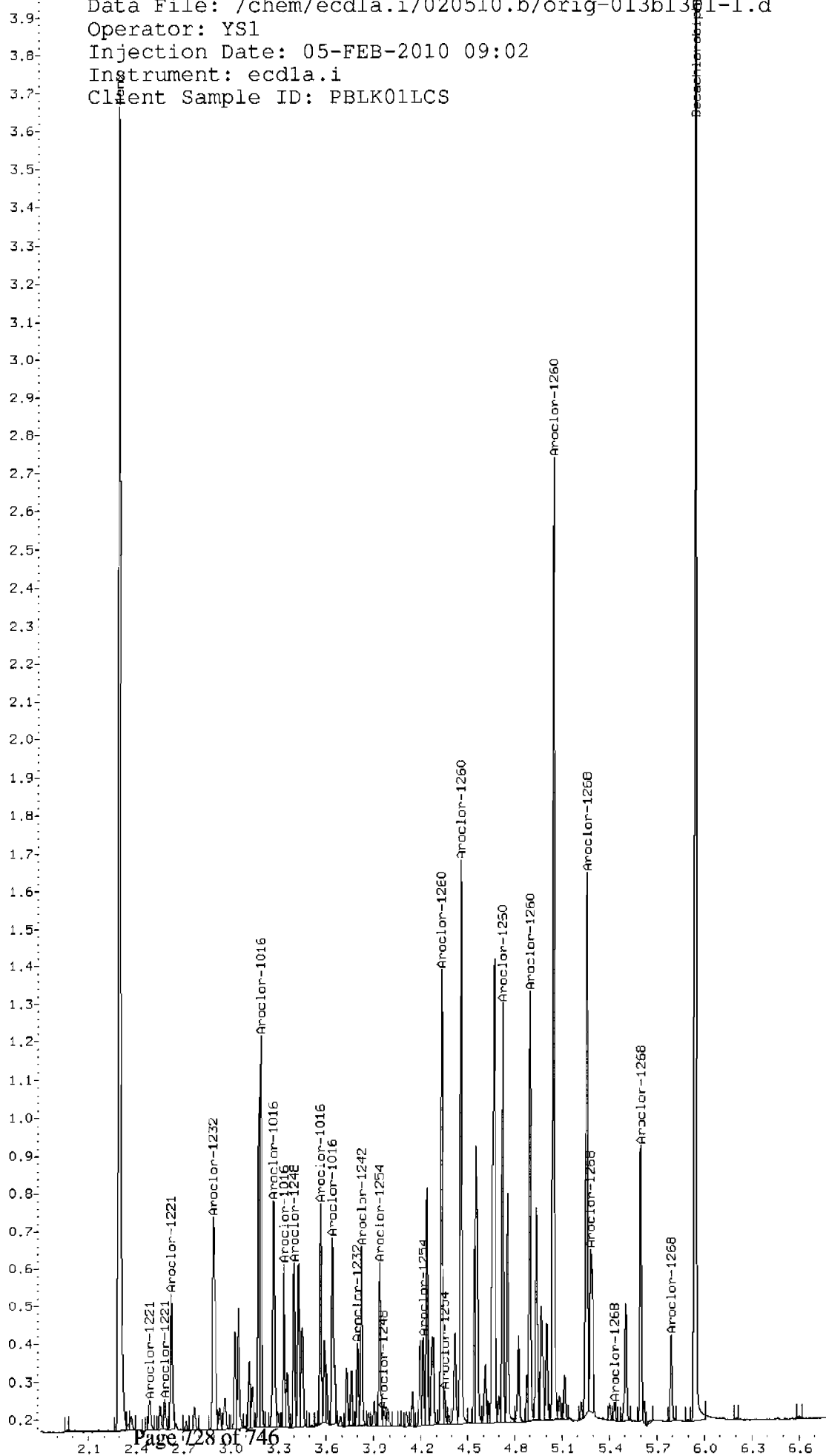
Comment: Manually Integrated
Data File: /chem/ecdl1a.i/020510.b/013b1301-1.0
Operator: YS1
Injection Date: 05-FEB-2010 09:02
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS

Y (x10⁷)



Comment: Before manual integration
Data File: /chem/ecdl1a.i/020510.b/orig-013b1301-1.d
Operator: YS1
Injection Date: 05-FEB-2010 09:02
Instrument: ecd1a.i
Client Sample ID: PBLK01LCS

Y (x10⁷)



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 12/15/2009

METHOD: ECD1-F-8082-121409.m

OPERATOR:YS1

REVIEWED BY: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1

DATE: _____

SOLVENT LOT DA385
ALUMINA LOT 1230997-A
COPPER LOT 236547-A

Calibration & QC Information

Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/121409.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR091130-99 01	YS1	14-DEC-2009 04:44		121409	1.0	CLEAN	
002f0201.d	WAR091211-60 01	YS1	14-DEC-2009 04:54		121409	1.0	DUSE RE-ICAL	
003f0301.d	WAR091102-54	YS1	14-DEC-2009 05:05		121409	1.0	DUSE RE-ICAL	
004f0401.d	WAR091102-42	YS1	14-DEC-2009 05:15		121409	1.0	DUSE RE-ICAL	
005f0501.d	WAR091027-48	YS1	14-DEC-2009 05:26		121409	1.0	DUSE RE-ICAL	
006f0601.d	WAR090930-32	YS1	14-DEC-2009 05:36		121409	1.0	PATTERN ONLY	
007f0701.d	WAR090803-21	YS1	14-DEC-2009 05:47		121409	1.0	PATTERN ONLY	
008f0801.d	WAR090803-62	YS1	14-DEC-2009 05:58		121409	1.0	PATTERN ONLY	
009f0901.d	WAR091106-68	YS2	14-DEC-2009 06:08		121409	1.0	DUSE RE-ICAL	
010f1001.d	1660-2	YS1	14-DEC-2009 06:19		121409	1.0	DUSE	
011f1101.d	1660-2	YS1	14-DEC-2009 06:29		121409	1.0	DUSE	
012f1201.d	1660-3	YS1	14-DEC-2009 06:40		121409	1.0	DUSE	
013f1301.d	1660-4	YS1	14-DEC-2009 06:50		121409	1.0	DUSE	
014f1401.d	WAR091102-01	YS1	14-DEC-2009 07:01		121409	1.0	DUSE	
015f1501.d	WAR091211-60 01	YS1	14-DEC-2009 07:11		121409	1.0	DUSE	

Instrument Batch: /chem/ecd1a.i/121409.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR091214-05 54	YS1	14-DEC-2009 07:22	121409	1.0	AR1254 I-CAL LEVEL 1
017f1701.d	WAR091214-06 54	YS1	14-DEC-2009 07:32	121409	1.0	AR1254 I-CAL LEVEL 2
018f1801.d	WAR091214-07 54	YS1	14-DEC-2009 07:43	121409	1.0	AR1254 I-CAL LEVEL 3
019f1901.d	WAR091214-08 54	YS1	14-DEC-2009 07:53	121409	1.0	AR1254 I-CAL LEVEL 4
020f2001.d	IAR091027-01	YS1	14-DEC-2009 08:04	121409	1.0	AR1254 I-CAL LEVEL 5
021f2101.d	WAR091102-54	YS1	14-DEC-2009 08:14	121409	1.0	PASSED ON BOTH COLUMNS
022f2201.d	WAR091214-09 42	YS1	14-DEC-2009 08:25	121409	1.0	AR1242 I-CAL LEVEL 1
023f2301.d	WAR091214-10 42	YS1	14-DEC-2009 08:35	121409	1.0	AR1242 I-CAL LEVEL 2
024f2401.d	WAR091214-11 42	YS1	14-DEC-2009 08:46	121409	1.0	AR1242 I-CAL LEVEL 3
025f2501.d	WAR091214-12 42	YS1	14-DEC-2009 08:56	121409	1.0	AR1242 I-CAL LEVEL 4
026f2601.d	IAR091111-01	YS1	14-DEC-2009 09:07	121409	1.0	AR1242 I-CAL LEVEL 5
027f2701.d	WAR091102-42	YS1	14-DEC-2009 09:17	121409	1.0	PASSED ON BOTH COLUMNS
028f2801.d	WAR091214-13 48	YS1	14-DEC-2009 09:28	121409	1.0	AR1248 I-CAL LEVEL 1
029f2901.d	WAR091214-14 48	YS1	14-DEC-2009 09:38	121409	1.0	AR1248 I-CAL LEVEL 2
030f3001.d	WAR091214-15 48	YS1	14-DEC-2009 09:49	121409	1.0	AR1248 I-CAL LEVEL 3
031f3101.d	WAR091214-16 48	YS1	14-DEC-2009 09:59	121409	1.0	AR1248 I-CAL LEVEL 4
032f3201.d	IAR091027-02	YS1	14-DEC-2009 10:10	121409	1.0	AR1248 I-CAL LEVEL 5
033f3301.d	WAR091027-48	YS1	14-DEC-2009 10:20	121409	1.0	PASSED ON BOTH COLUMNS
034f3401.d	WAR091214-01 60	YS1	14-DEC-2009 10:31	121409	1.0	AR1660 I-CAL LEVEL 1
035f3501.d	WAR091214-02 60	YS1	14-DEC-2009 10:41	121409	1.0	AR1660 I-CAL LEVEL 2

Instrument Batch: /chem/ecdl.a.i/121409.b

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Data File	GEL Lab Sample ID	Analysis	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	WAR091214-03 60	YS1	14-DEC-2009 10:52	121409	1.0	1.0	AR1660 I-CAL LEVEL 3	
037f3701.d	WAR091214-04 60	YS1	14-DEC-2009 11:02	121409	1.0	1.0	AR1660 I-CAL LEVEL 4	
038f3801.d	IAR091102-01	YS1	14-DEC-2009 11:13	121409	1.0	1.0	AR1660 I-CAL LEVEL 5	
039f3901.d	WAR091211-60 01	YS1	14-DEC-2009 11:23	121409	1.0	1.0	PASSED ON BOTH COLUMNS	
040f4001.d	WAR091214-17 68	YS1	14-DEC-2009 11:34	121409	1.0	1.0	AR1268 I-CAL LEVEL 1	

041f4101.d	WAR091214-18 68	YS1	14-DEC-2009 11:44		121409		1.0		AR1268 I-CAL LEVEL 2
042f4201.d	WAR091214-19 68	YS1	14-DEC-2009 11:55		121409		1.0		AR1268 I-CAL LEVEL 3
043f4301.d	WAR091214-20 68	YS1	14-DEC-2009 12:06		121409		1.0		AR1268 I-CAL LEVEL 4
044f4401.d	IAR090817-02	YS1	14-DEC-2009 12:16		121409		1.0		AR1268 I-CAL LEVEL 5
045f4501.d	WAR091106-68	YS1	14-DEC-2009 12:27		121409		1.0		PASSED ON BOTH COLUMNS
046f4601.d	WAR091020-007	YS1	14-DEC-2009 12:37		121409		1.0		DDT ANALOG STANDARD
047f4701.d	WAR091130-99 02	YS1	14-DEC-2009 12:48		121409		1.0		CLEAN
048f4801.d	1201991693	YS1	14-DEC-2009 12:58		931140	10-782		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
049f4901.d	1201991694	YS1	14-DEC-2009 13:09		931140	10-782		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
050f5001.d	242297001	YS1	14-DEC-2009 13:19		931140	10-782		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
051f5101.d	242297002	YS1	14-DEC-2009 13:30		931140	10-782		10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
052f5201.d	242297003	YS1	14-DEC-2009 13:40		931140	10-782		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
053f5301.d	242297004	YS1	14-DEC-2009 13:51		931140	10-782		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
054f5401.d	242297005	YS1	14-DEC-2009 14:03		931140	10-782		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
055f5501.d	242297006	YS1	14-DEC-2009 14:16		931140	10-782		10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdla.i/121409.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client		Comments
056f5601.d	242297007	YS1	14-DEC-2009 14:29	931140	10-782		5.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
057f5701.d	242297008	YS1	14-DEC-2009 14:41	931140	10-782		25.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
058f5801.d	WAR091211-60 02	YS1	14-DEC-2009 14:52		121409		1.0		PASSED ON BOTH COLUMNS
059f5901.d	WAR091130-99 03	YS1	14-DEC-2009 15:02		121409		1.0		CLEAN
060f6001.d	242297009	YS1	14-DEC-2009 15:13	931140	10-782		1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
061f6101.d	242297010	YS1	14-DEC-2009 15:25	931140	10-782		1.0 LANL		DCB LOW RE
062f6201.d	242297011	YS1	14-DEC-2009 15:38	931140	10-782		5.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
063f6301.d	242297012	YS1	14-DEC-2009 15:51	931140	10-782		5.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
064f6401.d	242297013	YS1	14-DEC-2009 16:03	931140	10-782		10.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER

065f6501.d	242305004	YS1	14-DEC-2009 16:16	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
066f6601.d	1201991695	YS1	14-DEC-2009 16:28	931140	10-786	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
067f6701.d	1201991696	YS1	14-DEC-2009 16:41	931140	10-786	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
068f6801.d	242305005	YS1	14-DEC-2009 16:53	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
069f6901.d	242305006	YS1	14-DEC-2009 17:06	931140	10-786	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
070f7001.d	WAR091211-60 C3	YS1	14-DEC-2009 17:19		121409	1.0		PASSED ON BOTH COLUMNS
071f7101.d	WAR091130-99 C4	YS1	14-DEC-2009 17:31		121409	1.0		CLEAN
072f7201.d	1201992645	YS1	14-DEC-2009 17:44	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
073f7301.d	1201992646	YS1	14-DEC-2009 17:57	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
074f7401.d	242264001	YS1	14-DEC-2009 18:09	931553	242264	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
075f7501.d	242521001	YS1	14-DEC-2009 18:22	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl1.i/121409.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
076f7601.d	1201992647	YS1	14-DEC-2009 18:35	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
077f7701.d	1201992648	YS1	14-DEC-2009 18:47	931553	242521	5.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
078f7801.d	242521002	YS1	14-DEC-2009 19:00	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
079f7901.d	242521003	YS1	14-DEC-2009 19:12	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
080f8001.d	242521004	YS1	14-DEC-2009 19:25	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
081f8101.d	242521005	YS1	14-DEC-2009 19:38	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
082f8201.d	WAR091211-60 C4	YS1	14-DEC-2009 19:50		121409	1.0		PASSED ON BOTH COLUMNS
083f8301.d	WAR091130-99 C5	YS1	14-DEC-2009 20:03		121409	1.0		CLEAN
084f8401.d	242521006	YS1	14-DEC-2009 20:15	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
085f8501.d	242521007	YS1	14-DEC-2009 20:28	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
086f8601.d	242521008	YS1	14-DEC-2009 20:41	931553	242521	5.0	EMSC	UPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	WAR091211-60 C5	YS1	14-DEC-2009 20:53		121409	1.0		PASSED ON BOTH COLUMNS
088f8801.d	WAR091130-99 C6	YS1	14-DEC-2009 21:06		121409	1.0		CLEAN
089f8901.d	242297010	YS1	14-DEC-2009 21:19	931140	10-782	1.0	LANL	

090f9001.d	WAR091211-60 C6	YS1	14-DEC-2009 21:32	121409	1.01	PASSED ON BOTH COLUMNS
091f9101.d	WAR091130-99 C7	YS1	14-DEC-2009 21:44	121409	1.01	CLEAN
092f9201.d	1660	YS1	14-DEC-2009 21:56	121409	1.01	screen
093f9301.d	1660	YS1	14-DEC-2009 22:09	121409	1.01	screen
094f9401.d	1660	YS1	14-DEC-2009 22:22	121409	1.01	screen

Instrument Batch: /chem/ecdl1a.i/121409.b

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GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 01/29/2010 METHOD: ECD1-F-8082-121409.m OPERATOR: YS1 REVIEWED BY: _____
DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/012810a.b Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	YS1	28-JAN-2010 09:16		012810a	1.0		CLEAN
002f0201.d	WAR100104-6C 01	YS1	28-JAN-2010 09:27		012810a	1.0		DUSE RE-I-CAL
003f0301.d	WAR3091216-54	YS1	28-JAN-2010 09:37		012810a	1.0		PASSED ON BOTH COLUMNS
004f0401.d	WAR3091217-42	YS1	28-JAN-2010 09:48		012810a	1.0		PASSED ON BOTH COLUMNS
005f0501.d	WAR3091217-48	YS1	28-JAN-2010 09:58		012810a	1.0		PASSED ON BOTH COLUMNS
006f0601.d	WAR100104-32	YS1	28-JAN-2010 10:09		012810a	1.0		PATTERN ONLY
007f0701.d	WAR100104-21	YS1	28-JAN-2010 10:19		012810a	1.0		PATTERN ONLY
008f0801.d	WAR100104-62	YS1	28-JAN-2010 10:30		012810a	1.0		PATTERN ONLY
009f0901.d	WAR100107-68	YS1	28-JAN-2010 10:40		012810a	1.0		DUSE RE-I-CAL
010f1001.d	WAR100128-01 60	YS1	28-JAN-2010 10:51		012810a	1.0		ARI660 I-CAL LEVEL 1
011f1101.d	WAR100128-02 60	YS1	28-JAN-2010 11:01		012810a	1.0		ARI660 I-CAL LEVEL 2
012f1201.d	WAR100128-03 60	YS1	28-JAN-2010 11:12		012810a	1.0		ARI660 I-CAL LEVEL 3
013f1301.d	WAR100128-04 60	YS1	28-JAN-2010 11:22		012810a	1.0		ARI660 I-CAL LEVEL 4
014f1401.d	WAR100104-01-01	YS1	28-JAN-2010 11:34		012810a	1.0		ARI660 I-CAL LEVEL 5
015f1501.d	WAR100104-60 01	YS1	28-JAN-2010 11:44		012810a	1.0		PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecd1a.i/012810a.b

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006f1601.d	WAK00100122-68	YS1	28-JAN-2010 11:55		012810a		1.0		DUSE RE-ICAL
017f1701.d	WAR091219-DDT	YS1	28-JAN-2010 12:05		012810a		1.0		DDT ANALOG STANDARD
018f1801.d	WAR100128-05 68	YS1	28-JAN-2010 12:18		012810a		1.0		ARI268 I-CAL LEVEL 1
019f1901.d	WAR100128-06 68	YS1	28-JAN-2010 12:29		012810a		1.0		ARI268 I-CAL LEVEL 2
020f2001.d	WAR100128-07 68	YS1	28-JAN-2010 12:39		012810a		1.0		ARI268 I-CAL LEVEL 3
021f2101.d	WAR100128-08 68	YS1	28-JAN-2010 12:50		012810a		1.0		ARI268 I-CAL LEVEL 4
022f2201.d	IAR100104-05	YS1	28-JAN-2010 13:00		012810a		1.0		ARI268 I-CAL LEVEL 5
023f2301.d	WAK00107-68	YS1	28-JAN-2010 13:11		012810a		1.0		PASSED ON BOTH COLUMNS
024f2401.d	WAK00105-99 02	YS1	28-JAN-2010 13:22		012810a		1.0		CLEAN
025f2501.d	1202026135	YS1	28-JAN-2010 13:32		945965 1245586		1.0 QC A		UP-CAD BOTH COLUMNS, USE HIGHER
026f2601.d	1202026136	YS1	28-JAN-2010 13:42		945965 1245586		1.0 QC A		UP-CAD BOTH COLUMNS, USE HIGHER
027f2701.d	245586001	YS1	28-JAN-2010 13:53		945965 1245586		250.0 NNES		UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	1202026137	YS1	28-JAN-2010 14:05		945965 1245586		250.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
029f2901.d	1202026138	YS1	28-JAN-2010 14:18		945965 1245586		250.0 QC A		UPLOAD BOTH COLUMNS, USE HIGHER
030f3001.d	245586002	YS1	28-JAN-2010 14:30		945965 1245586		50.0 NNES		UPLOAD BOTH COLUMNS, USE HIGHER
031f3101.d	245586003	YS1	28-JAN-2010 14:43		945965 1245586		1.0 NNES		UPLOAD BOTH COLUMNS, USE HIGHER
032f3201.d	WAK00104-60 02	YS1	28-JAN-2010 14:56		012810a		1.0		PASSED ON BOTH COLUMNS
033f3301.d	WAR091216-54 02	YS1	28-JAN-2010 15:06		012810a		1.0		PASSED ON BOTH COLUMNS
034f3401.d	WAR091217-42 02	YS1	28-JAN-2010 15:16		012810a		1.0		PASSED ON BOTH COLUMNS
035f3501.d	WAR091217-48 02	YS1	28-JAN-2010 15:27		012810a		1.0		PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecdl1a.i/012810a.b

Data File		GEL Lab Sample ID		Analysis		Injection Date/Time		Batch		SDG		Dilution		Client		Comments
036f3601.d		WAR100104-32 02		YS1		28-JAN-2010 15:38				012810a		1.0				PATTERN ONLY
037f3701.d		WAR100104-21 02		YS1		28-JAN-2010 15:48				012810a		1.0				PATTERN ONLY
038f3801.d		WAK100104-62 02		YS1		28-JAN-2010 15:58				012810a		1.0				PATTERN ONLY
039f3901.d		WAK100122-68 02		YS1		28-JAN-2010 16:09				012810a		1.0				PASSED ON BOTH COLUMNS

C40f4001.d	WAR100105-99 03	YS1	28-JAN-2010 16:19		012810a		1.0	CLEAN	
C41f4101.d	245096008	YS1	28-JAN-2010 16:30	944883	10-1299		20.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C42f4201.d	245096009	YS1	28-JAN-2010 16:43	944883	10-1299		10.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C43f4301.d	245096010	YS1	28-JAN-2010 16:55	944883	10-1299		20.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C44f4401.d	245096011	YS1	28-JAN-2010 17:08	944883	10-1299		20.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C45f4501.d	245099015	YS1	28-JAN-2010 17:20	944883	10-1301		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C46f4601.d	245114003	YS1	28-JAN-2010 17:33	944883	10-1324		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C47f4701.d	1202023863	YS1	28-JAN-2010 17:45	944883	10-1324		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
C48f4801.d	1202023864	YS1	28-JAN-2010 17:58	944883	10-1324		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER	
C49f4901.d	245114004	YS1	28-JAN-2010 18:11	944883	10-1324		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C50f5001.d	245114005	YS1	28-JAN-2010 18:23	944883	10-1324		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C51f5101.d	WAR100104-60 03	YS1	28-JAN-2010 18:38		012810a		1.0	PASSED ON BOTH COLUMNS	
C52f5201.d	WAR100105-99 04	YS1	28-JAN-2010 18:50		012810a		1.0	CLEAN	
C53f5301.d	245114006	YS1	28-JAN-2010 19:03	944883	10-1324		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER	
C54f5401.d	WAR100104-60 04	YS1	28-JAN-2010 19:17		012810a		1.0	PASSED ON BOTH COLUMNS	
C55f5501.d	WAR100105-99 05	YS1	28-JAN-2010 19:30		012810a		1.0	CLEAN	

Instrument Batch: /chem/ecd1a.i/012810a.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
C56f5601.d	1202026131	YS1	28-JAN-2010 19:42	945963	10-1372		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
C57f5701.d	1202026132	YS1	28-JAN-2010 19:55	945963	10-1372		1.0 QC A	UPLOAD BOTH COLUMNS, USE HIGHER
C58f5801.d	245376001	YS1	28-JAN-2010 20:08	945963	10-1372		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C59f5901.d	245376002	YS1	28-JAN-2010 20:20	945963	10-1372		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C60f6001.d	245376003	YS1	28-JAN-2010 20:33	945963	10-1372		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C61f6101.d	245376004	YS1	28-JAN-2010 20:45	945963	10-1372		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C62f6201.d	245376005	YS1	28-JAN-2010 20:58	945963	10-1372		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C63f6301.d	245376006	YS1	28-JAN-2010 21:10	945963	10-1372		5.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
C64f6401.d	245376007	YS1	28-JAN-2010 21:23	945963	10-1372		1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecdl.a.i/012810a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
065f6501.d	245381002	YS1	28-JAN-2010 21:36	945963	110-1380	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
066f6601.d	WAR100104-60 05	YS1	28-JAN-2010 21:48		012810a	1.0		PASSED ON BOTH COLUMNS
067f6701.d	WAR100105-99 06	YS1	28-JAN-2010 22:01		012810a	1.0		CLEAN
068f6801.d	245384001	YS1	28-JAN-2010 22:13	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
069f6901.d	1202026133	YS1	28-JAN-2010 22:26	945963	110-1382	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
070f7001.d	1202026134	YS1	28-JAN-2010 22:39	945963	110-1382	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
071f7101.d	245384002	YS1	28-JAN-2010 22:51	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
072f7201.d	245384003	YS1	28-JAN-2010 23:04	945963	110-1382	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
073f7301.d	245384004	YS1	28-JAN-2010 23:16	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
074f7401.d	245384005	YS1	28-JAN-2010 23:29	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
075f7501.d	245384006	YS1	28-JAN-2010 23:41	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
076f7601.d	245384007	YS1	28-JAN-2010 23:54	945963	110-1382	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
077f7701.d	245384008	YS1	29-JAN-2010 00:07	945963	110-1382	5.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
078f7801.d	WAR100104-60 06	YS1	29-JAN-2010 00:19		012810a	1.0		PASSED ON BOTH COLUMNS
079f7901.d	WAR100105-99 07	YS1	29-JAN-2010 00:32		012810a	1.0		CLEAN
080f8001.d	245384012	YS1	29-JAN-2010 00:45	945963	110-1382	1.0	LANL	UPLOAD BOTH COLUMNS, USE HIGHER
081f8101.d	WAR100104-60 07	YS1	29-JAN-2010 00:57		012810a	1.0		PASSED ON BOTH COLUMNS
082f8201.d	WAR100105-99 08	YS1	29-JAN-2010 01:10		012810a	1.0		CLEAN
083f8301.d	1202026309	YS1	29-JAN-2010 01:22	946042	EUI-7483	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
084f8401.d	1202026310	YS1	29-JAN-2010 01:35	946042	EUI-7483	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
085f8501.d	1202026313	YS1	29-JAN-2010 01:48	946042	EUI-7483	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
086f8601.d	245309001	YS1	29-JAN-2010 02:00	946042	EUI-7483	1.0	CARE	UPLOAD BOTH COLUMNS, USE HIGHER
087f8701.d	1202026311	YS1	29-JAN-2010 02:13	946042	EUI-7483	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER
088f8801.d	1202026312	YS1	29-JAN-2010 02:25	946042	EUI-7483	1.0	QC A	UPLOAD BOTH COLUMNS, USE HIGHER

089f8901.d	WAR100104-60 08	YS-	29-JAN-2010 02:38		012810a		1.0	PASSED ON BOTH COLUMNS	
090f900-.d	WAR100105-99 09	YS1	29-JAN-2010 02:51		012810a		1.0	CLEAN	

Instrument Batch: /chem/ecd1a.i/012810a.b

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 01/29/2010 METHOD: ECD1-F-8082-121409.m OPERATOR: YS1 REVIEWED BY: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 DATE: _____

SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.

Initial Calibration Std ID's: See Calibration History and Standard Logbook.

GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082

Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,

DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,

BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/012910.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0201.d	WAR00105-99 01	YS1	29-JAN-2010 06:12		012910	1.0	CLEAN	
002f0201.d	WAR100104-60 01	YS1	29-JAN-2010 06:22		012910	1.0	HOUSE RE I-CAL	
003f0301.d	WAR031215-54	YS1	29-JAN-2010 06:33		012910	1.0	PASSED ON BOTH COLUMNS	
004f0401.d	WAR091217-42	YS1	29-JAN-2010 06:43		012910	1.0	PASSED ON BOTH COLUMNS	
005f0501.d	WAR091217-48	YS1	29-JAN-2010 06:54		012910	1.0	PASSED ON BOTH COLUMNS	
006f0601.d	WAR100104-32	YS1	29-JAN-2010 07:04		012910	1.0	PATTERN ONLY	
007f0701.d	WAR100104-21	YS1	29-JAN-2010 07:15		012910	1.0	PATTERN ONLY	
008f0801.d	WAR100104-62	YS1	29-JAN-2010 07:25		012910	1.0	PATTERN ONLY	
009f0901.d	WAR100107-68	YS1	29-JAN-2010 07:36		012910	1.0	PATTERN ONLY	
010f1001.d	WAR100129-01 60	YS1	29-JAN-2010 07:46		012910	1.0	ARI660 I-CAL LEVEL 1	
011f1101.d	WAR100129-02 60	YS1	29-JAN-2010 07:57		012910	1.0	ARI660 I-CAL LEVEL 2	
012f1201.d	WAR100129-03 60	YS1	29-JAN-2010 08:07		012910	1.0	ARI660 I-CAL LEVEL 3	
013f1301.d	WAR100129-04 60	YS1	29-JAN-2010 08:18		012910	1.0	ARI660 I-CAL LEVEL 4	
014f1401.d	WAR100104-01	YS1	29-JAN-2010 08:59		012910	1.0	ARI660 I-CAL LEVEL 5	
015f1501.d	WAR100104-60 01	YS1	29-JAN-2010 09:09		012910	1.0	PASSED ON BOTH COLUMNS	

Instrument Batch: /chem/ecd1a.i/012910.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	WAR091219-DDT	YS1	29-JAN-2010 09:20		1012910	1.0	DDT ANALOG STANDARD
017f1701.d	WAR100105-99 02	YS1	29-JAN-2010 09:30		1012910	1.0	CLEAN
019f1801.d	1202027001	YS1	29-JAN-2010 09:41	946348	110-1416	1.0	QC A
019f1901.d	1202027002	YS1	29-JAN-2010 09:51	946348	110-1416	1.0	QC A
020f2001.d	245609001	YS1	29-JAN-2010 10:02	946348	110-1416	1.0	QC A
021f2101.d	245609002	YS1	29-JAN-2010 10:14	946348	110-1416	5.0	QC A
022f2201.d	245609003	YS1	29-JAN-2010 10:27	946348	110-1416	1.0	QC A
023f2301.d	1202027003	YS1	29-JAN-2010 10:40	946348	110-1416	1.0	QC A
024f2401.d	1202027004	YS1	29-JAN-2010 10:52	946348	110-1416	1.0	QC A
025f2501.d	245609004	YS1	29-JAN-2010 11:05	946348	110-1416	1.0	QC A
026f2601.d	245609005	YS1	29-JAN-2010 11:17	946348	110-1416	5.0	QC A
027f2701.d	245609006	YS1	29-JAN-2010 11:30	946348	110-1416	1.0	QC A
028f2801.d	WAR100104-60 02	YS1	29-JAN-2010 11:42		1012910	1.0	PASSED ON BOTH COLUMNS
029f2901.d	WAR100105-99 03	YS1	29-JAN-2010 11:55		1012910	1.0	CLEAN
030f3001.d	245609007	YS1	29-JAN-2010 12:03	946348	110-1416	5.0	QC A
031f3101.d	245609008	YS1	29-JAN-2010 12:16	946348	110-1416	1.0	QC A
032f3201.d	245609009	YS1	29-JAN-2010 12:28	946348	110-1416	1.0	QC A
033f3301.d	245609010	YS1	29-JAN-2010 12:41	946348	110-1416	5.0	QC A
034f3401.d	245609011	YS1	29-JAN-2010 12:54	946348	110-1416	1.0	QC A
035f3501.d	245609012	YS1	29-JAN-2010 13:06	946348	110-1416	5.0	QC A

Instrument Batch: /chem/ecdl1a.i/012910.b

036f3601.d	245609013	YS1	29-JAN-2010 13:19	946348	110-1416	1.0	QC A
037f3701.d	245609014	YS1	29-JAN-2010 13:31	946348	110-1416	5.0	QC A
038f3801.d	245609015	YS1	29-JAN-2010 13:44	946348	110-1416	10.0	QC A
039f3901.d	245609016	YS1	29-JAN-2010 13:56	946348	110-1416	5.0	QC A
040f4001.d	WAR100104-60 03	YS1	29-JAN-2010 14:09		1012910	1.0	PASSED ON BOTH COLUMNS

Instrument Batch: /chem/ecdla.i/012910.b

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GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD1

DATE: 02/08/2010 METHOD: ECD1-F-8082-121409.m OPERATOR: YS1 REVIEWED BY: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 DATE: _____
SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
GEL SOP GL-OA-E-040 Polychlorinated Biphenyl: EPA 8082
Chromatogram Abbreviation Legend: AB-Assign Baseline, AP-Assign Peak,
DNC-Do Not Call, DMP-Doesn't Match Pattern, NC-Not Confirmed, RT-Retention Time,
BF-Before, AF-After.

Sequence Number: /chem/ecd1a.i/020510.b

Injection Volume: 0.5 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR001025-99 01	YS1	05-FEB-2010 06:56		020510	1.01		CLEAN
002f0201.d	WAR100203-60 01	YS1	05-FEB-2010 07:06		020510	1.01		PASSED ON BOTH COLUMNS
003f0301.d	WAR091216-54	YS1	05-FEB-2010 07:17		020510	1.01		PASSED ON BOTH COLUMNS
004f0401.d	WAR091217-42	YS1	05-FEB-2010 07:27		020510	1.01		PASSED ON BOTH COLUMNS
005f0501.d	WAR091217-48	YS1	05-FEB-2010 07:38		020510	1.01		PASSED ON BOTH COLUMNS
006f0601.d	WAR100104-32	YS1	05-FEB-2010 07:48		020510	1.01		PATTERN ONLY
007f0701.d	WAR100104-21	YS1	05-FEB-2010 07:59		020510	1.01		PATTERN ONLY
008f0801.d	WAR100104-62	YS1	05-FEB-2010 08:09		020510	1.01		PASSED ON BOTH COLUMNS
009f0901.d	WAR100107-68	YS1	05-FEB-2010 08:20		020510	1.01		PASSED ON BOTH COLUMNS
010f1001.d	WAR091219-5DT	YS1	05-FEB-2010 08:31		020510	1.01		DOT ANALOG STANDARD
011f1101.d	WAR100205-99 02	YS1	05-FEB-2010 08:41		020510	1.01		CLEAN
012f1201.d	1202033246	YS1	05-FEB-2010 08:52	949033	10-1462	1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER
013f1301.d	1202033247	YS1	05-FEB-2010 09:02	949033	10-1462	1.01QC A		UPLOAD BOTH COLUMNS, USE HIGHER
014f1401.d	245786001	YS1	05-FEB-2010 09:13	949033	10-1462	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER
015f1501.d	245795001	YS1	05-FEB-2010 09:23	949033	10-1470	1.01LANL		UPLOAD BOTH COLUMNS, USE HIGHER

Instrument Batch: /chem/ecd1a.i/020510.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
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016f1601.d	245795002	YS1	05-FEB-2010 09:36	949033	10-1470	1.0 LANL	AR1268 RE TO CONFIRM
017f1701.d	245795003	YS1	05-FEB-2010 09:48	949033	10-1470	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
018f1801.d	245795004	YS1	05-FEB-2010 10:01	949033	10-1470	1.0 LANL	AR1268 RE TO CONFIRM
019f1901.d	245795005	YS1	05-FEB-2010 10:13	949033	10-1470	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
020f2001.d	245795006	YS1	05-FEB-2010 10:26	949033	10-1470	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
021f2101.d	245795007	YS1	05-FEB-2010 10:39	949033	10-1470	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
022f2201.d	WAR100203-60 02	YS1	05-FEB-2010 10:51		020510	1.0	PASSED ON BOTH COLUMNS
023f2301.d	WAR100105-99 03	YS1	05-FEB-2010 11:02		020510	1.0	CLEAN
024f2401.d	245795008	YS1	05-FEB-2010 11:12	949033	10-1470	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
025f2501.d	245803006	YS1	05-FEB-2010 11:25	949033	10-1473	1.0 LANL	AR1268 RE TO CONFIRM
026f2601.d	245803007	YS1	05-FEB-2010 11:37	949033	10-1473	1.0 LANL	AR1268 RE TO CONFIRM
027f2701.d	245803008	YS1	05-FEB-2010 11:50	949033	10-1473	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
028f2801.d	245959001	YS1	05-FEB-2010 12:03	949033	10-1510	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
029f2901.d	245959002	YS1	05-FEB-2010 12:15	949033	10-1510	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
030f3001.d	245959012	YS1	05-FEB-2010 12:28	949033	10-1510	1.0 LANL	UPLOAD BOTH COLUMNS, USE HIGHER
031f3101.d	WAR100203-60 03	YS1	05-FEB-2010 12:40		020510	1.0	PASSED ON BOTH COLUMNS
032f3201.d	WAR100105-99 04	YS1	05-FEB-2010 12:51		020510	1.0	CLEAN
033f3301.d	245969001	YS1	05-FEB-2010 13:01	949033	10-1512	1.0 LANL	RE RESULT DID NOT MATCH WITH MS/MSD
034f3401.d	1202033248	YS1	05-FEB-2010 13:14	949033	10-1512	1.0 QC A	DUSE
035f3501.d	1202033249	YS1	05-FEB-2010 13:27	949033	10-1512	1.0 QC A	DUSE
036f3601.d	245969002	YS1	05-FEB-2010 13:39	949033	10-1512	1.0 LANL	AR1268 RE TO CONFIRM

Instrument Batch: /chem/ecdl.a.i/020510.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
037f3701.d	245969003	YS1	05-FEB-2010 13:52	949033	10-1512	1.0 LANL		UPLOAD BOTH COLUMNS, USE HIGHER
038f3801.d	WAR100203-60 04	YS1	05-FEB-2010 14:05		020510	1.0		PASSED ON BOTH COLUMNS
039f3901.d	WAR100105-99 05	YS1	05-FEB-2010 14:15		020510	1.0		CLEAN
040f4001.d	1202026314	YS1	05-FEB-2010 14:26	946047	020510	1.0 QC A		REPORT FROM ECD 8

041f4101.d	1202026315	YS1	05-FEB-2010 14:36	946047		1.0 QC A	REPORT FROM ECD 8	
042f4201.d	1243861001	YS1	05-FEB-2010 14:47	946047	2010MDLVECD11262-L	1.0 QCQA	UPLOAD BOTH COLUMNS	
043f4301.d	1243861002	YS1	05-FEB-2010 14:57	946047	2010MDLVECD11262-L	1.0 QCQA	UPLOAD BOTH COLUMNS	
044f4401.d	1243861003	YS1	05-FEB-2010 15:08	946047	2010MDLVECD11262-L	1.0 QCQA	UPLOAD BOTH COLUMNS	
045f4501.d	1243861004	YS1	05-FEB-2010 15:18	946047	2010MDLVECD11262-L	1.0 QCQA	UPLOAD BOTH COLUMNS	
046f4601.d	WAR100203-60 05	YS1	05-FEB-2010 15:29		020510		1.0	PASSED ON BOTH COLUMNS
047f4701.d	WAR100105-99 06	YS1	05-FEB-2010 15:39		020510		1.0	CLEAN

Instrument Batch: /chem/ecdla.i/020510.b

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Prep Logbook **Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples**

Batch ID: 949031
 Analyst: Andrew Schwenin
 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)
1202033246 MB	04-FEB-2010 20:32:00	30	H2SO4/KM2	2	9	1	0.03333	
1202033247 LCS	04-FEB-2010 20:32:00	30	H2SO4/KM2	2	9	1	0.03333	
245786001	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795001	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795002	04-FEB-2010 20:32:00	30.19	H2SO4/KM2	2	9	1	0.03312	
245795003	04-FEB-2010 20:32:00	30.18	H2SO4/KM2	2	9	1	0.03313	
245795004	04-FEB-2010 20:32:00	30.01	H2SO4/KM2	2	9	1	0.03332	
245795005	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
245795006	04-FEB-2010 20:32:00	30.03	H2SO4/KM2	2	9	1	0.0333	
245795007	04-FEB-2010 20:32:00	30.01	H2SO4/KM2	2	9	1	0.03332	
245795008	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245803006	04-FEB-2010 20:32:00	30.04	H2SO4/KM2	2	9	1	0.03329	
245803007	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245803008	04-FEB-2010 20:32:00	30.19	H2SO4/KM2	2	9	1	0.03312	
245959001	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245959002	04-FEB-2010 20:32:00	30.02	H2SO4/KM2	2	9	1	0.03331	
245959012	04-FEB-2010 20:32:00	30.03	H2SO4/KM2	2	9	1	0.0333	
245969001	04-FEB-2010 20:32:00	30.05	H2SO4/KM2	2	9	1	0.03328	
1202033248 MS (245969001)	04-FEB-2010 20:32:00	30.26	H2SO4/KM2	2	9	1	0.03305	
1202033249 MSD (245969001)	04-FEB-2010 20:32:00	30.04	H2SO4/KM2	2	9	1	0.03329	
245969002	04-FEB-2010 20:32:00	30.21	H2SO4/KM2	2	9	1	0.0331	
245969003	04-FEB-2010 20:32:00	30.11	H2SO4/KM2	2	9	1	0.03321	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202033247	PCB Laboratory Control	WE100126-07	1	mL	Clean up Date: 2/4/10
MS	1202033248	PCB Laboratory Control	WE100126-07	1	mL	Clean up Initials: AUS
MSD	1202033249	PCB Laboratory Control	WE100126-07	1	mL	Verified By: AV
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE100108-15	1	mL	Final Solvent: Hexane
REGNT	All	1:1 sulfuric acid	1260695a	5	mL	Clean Up SOP: GL-OA-E-037
REGNT	All	Acetone	1264558	150	mL	
REGNT	All	Hexane	1264562-B2	150	mL	
REGNT	All	5% Potassium Permanganate	B1202457-F	5	mL	
SOURC	All	SODIUM SULFATE	1265308	30	g	