

Friday, February 19, 2010

Page 1 of 2
REQUEST NUMBER: 10-1956

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.

LANL Request Number: 10-1956

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: 2/19/2010

TURNAROUND/REPORT DUE: 3/21/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082		1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	

Friday, February 19, 2010

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REQUEST NUMBER: 10-1956

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8268	R	2/15/2010	
	SW-846:8321A_MOD	1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	
		1	RE15-10-8268	R	2/15/2010	

Final Page of REQUEST NUMBER 10-1956

Friday, February 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1956

LOS ALAMOS

REQUEST NUMBER: 10-1956

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/21/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8252	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8253	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8250	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8251	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8248	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8249	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8247	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8254	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8268	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8264	1	AMBER GLASS	8082+NMED-HEXP	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: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8247

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		09:05		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610819			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	109.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	110.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA		(NO)	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		(NO)	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	ARM 2/15/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray, non indurated, non welded, dehydrated, dry, arch flow tuff.

SAMPLE COMMENTS: X/A

LOCATION DESC: 7 d-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 36 dpm
Beta/Gamma = 2112 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/16/10 08:18/4	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0818
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8248

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA: OBT3		OBT2	
TIME COLLECTED (HH:MM)		09:50		SUB-MEDIA: TUFF 1		OK	
PRS ID: 15-007(d)		OK		SAMPLE TECH CODE: HA		CBS	
LOCATION ID: 15-610819				FIELD QC TYPE: NA		OK	
LOCATION TYPE: GENERIC				FIELD PREP: NA			
TOP DEPTH: 0		123.5 ft		SAMPLE USAGE: INV			
BOTTOM DEPTH: 0		125.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	2082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray, strongly indurated, partially welded, devitrified, dry, ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 46 dpm
Beta/Gamma = 2110 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/16/10 08:18 AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0818
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8249

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2016		MEDIA:	OBT3		OBT 2
TIME COLLECTED (HH:MM)		10:35		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610819			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	138.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	140.0 ft		SCREEN/PORT DESC:			XNA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	YES			BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light grayish brown, strongly indurated, non to partially welded, dry, decalcified, ash flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 dpm
Beta/Gamma = 1989 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) JON MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/16/10	(Printed Name) Sheri Sherwood	2/16/10
(Signature) Jon R. Marin	08:17AM	(Signature) Sheri Sherwood	0817
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr, FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8250

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		11:12		SUB-MEDIA:		TUFF 1	
PRS ID: 15-007(d)		OK		SAMPLE TECH CODE: HA		CBS	
LOCATION ID: 15-610819				FIELD QC TYPE: NA		OK	
LOCATION TYPE: GENERIC				FIELD PREP: NA			
TOP DEPTH: 0		154.0 ft		SAMPLE USAGE: INV			
BOTTOM DEPTH: 0		155.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		OK		EXCAVATED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA			
BOREHOLE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO / NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8882+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

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

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 36 dpm

Beta/Gamma = 1963 dpm

2/15/10
 $\text{PID} \frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon H. Marin	Date/Time 2/16/10 08:16AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0816
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8251

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		11:50		SUB-MEDIA:		TUFF 1	
PRS ID: 15-007(d)		OK		SAMPLE TECH CODE: HA		CBS	
LOCATION ID: 15-610819				FIELD QC TYPE: NA		OK	
LOCATION TYPE: GENERIC				FIELD PREP: NA			
TOP DEPTH: 0		169.0 P+		SAMPLE USAGE: INV			
BOTTOM DEPTH: 0		170.0 P+		SCREEN/PORT DESC:		N/A	
FIELD MATRIX: R		OK		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: <input checked="" type="radio"/> YES / NO / NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	2082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light brownish gray, non to slightly indurated, non welded, de-nitrified
dry, arch flow tuff.

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-5 7d-1
JRM 2/15/10

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 36 dpm
Beta/Gamma = 2140 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ JRM 2/15/10

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/16/10	(Printed Name) Sherri Sherwood	2/16/10
(Signature) Jon R. Marin	08:16 AM	(Signature) Sherri Sherwood	0816
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8252

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		15:50		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CB5
LOCATION ID:	15-610820			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	4.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	5.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:			BOREHOLE DIRECTION:

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+CIO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

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

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

HE Spot Test Negative

Alpha = 25 dpm

Beta/Gamma = 2070 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARLIN

RELINQUISHED BY (Printed Name) JON MARLIN (Signature) Jon R. Marlin	Date/Time 2/16/10 08:16 AM	RECEIVED BY (Printed Name) Jennifer Newwood (Signature) Jennifer Newwood	Date/Time 2/16/10 0816
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8253

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		16:18		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	10.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	20.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: (YES/NO/NA)	(YES)			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION:
							NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

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

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm

Beta/Gamma = 2040 dpm

$$\text{PID} \frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$$
JRM
2/15/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/16/10 08:16 Am	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0816
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8254

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		16:57		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610820			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	34.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	35.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light gray, slightly indurated, non welded, de-sulfurized, dry, ash flow tuff.

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 25 dpm
Beta/Gamma = 1815 dpm

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

COLLECTED BY (PRINT)

R. Couders

REVIEWED BY (PRINT)

S. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 09:16 AM 2/16/10	RECEIVED BY (Printed Name) Sherri Newwood (Signature) Sherri Newwood	Date/Time 816 2/16/10
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8264

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/2010		MEDIA:	QBT3	QBT1	
TIME COLLECTED (HH:MM)		12:15		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA	CB5	
LOCATION ID:	UNK	15-610819		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	181.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	182.5 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO	NA		
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

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

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5 dpm
Beta/Gamma = 1956 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ *PRM 2/15/10*

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) J. Marin

R. Saunders

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/16/10 08:16 AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0816
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8268

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/15/10		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		16:18		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(d)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	UNK	15-61082.0		FIELD QC TYPE:	ED		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	18.0 ft		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	20.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION: -90°			
				BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-8253

Light gray non-indurated non welded dehydrified, dry, ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7d-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm
Beta/Gamma = 2040 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) J. MARIN (Signature) J. Marin	Date/Time 2/16/10 08:16 AM	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/16/10 0816
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2504

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(d) - Threemile Canyon

SAMPLE ID: RE15-10-8271

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/15/10	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		16:30	SUB-MEDIA:	OTHER	
PRS ID:	15-007(d)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610820	FIELD QC TYPE:	FR	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	UF	
TOP DEPTH:	0	0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0	SCREEN/PORT DESC:		NA
FIELD MATRIX:	W	OK	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION: -90°		
			BOREHOLE DIRECTION: NA		

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

SAMPLE DESC: QC Sample of RE15-10-8253

SAMPLE COMMENTS: NA

LOCATION DESC: 7d-2

FIELD SCREENING/MEASUREMENT RESULTS: NA

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) J. MARIN

RELINQUISHED BY (Printed Name) Jon Marin (Signature) Jon R. Marin	Date/Time 09:15 AM 2/16/10	RECEIVED BY (Printed Name) Sherrill Sherwood (Signature) Sherrill Sherwood	Date/Time 8:15 2/16/10
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 361-2896

ARS Sample Delivery Group: ARS1-10-00262
Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment (SO))
Analysis Test Method: GPC-A-003

Request or PO Number: N/A
Date Received: 2/17/2010
Report Date: 02/18/10 12:34

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	HOC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00262-001	RE15-10-8302	GROSS ALPHA	6.817	4.732	14.397	4.405	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-001	RE15-10-8302	GROSS BETA	25.135	4.841	7.848	3.393		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-002	RE15-10-8303	GROSS ALPHA	5.392	3.976	12.127	3.443	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-002	RE15-10-8303	GROSS BETA	32.960	5.742	8.016	3.483		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-003	RE15-10-8310	GROSS ALPHA	4.815	3.949	13.061	3.913	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-003	RE15-10-8310	GROSS BETA	28.560	5.211	7.666	3.298		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-004	RE15-10-8311	GROSS ALPHA	16.706	6.638	13.740	4.170		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-004	RE15-10-8311	GROSS BETA	31.065	5.505	7.578	3.274		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-005	RE15-10-8312	GROSS ALPHA	9.299	5.281	13.981	4.169	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-005	RE15-10-8312	GROSS BETA	41.326	6.770	7.991	3.448		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-006	RE15-10-8313	GROSS ALPHA	7.489	4.853	13.949	4.119	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-006	RE15-10-8313	GROSS BETA	43.056	6.963	7.921	3.412		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-007	RE15-10-8314	GROSS ALPHA	5.109	4.119	13.539	4.037	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-007	RE15-10-8314	GROSS BETA	24.911	4.797	7.864	3.408		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-008	RE15-10-8315	GROSS ALPHA	4.587	0.925	16.695	5.307	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-008	RE15-10-8315	GROSS BETA	41.335	6.715	8.074	3.495		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-009	RE15-10-8254	GROSS ALPHA	9.792	5.179	12.801	3.634	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-009	RE15-10-8254	GROSS BETA	24.323	4.794	8.108	3.525		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-010	RE15-10-8268	GROSS ALPHA	8.073	5.086	14.434	4.219	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-010	RE15-10-8268	GROSS BETA	26.329	5.062	8.262	3.585		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-011	RE15-10-8253	GROSS ALPHA	3.451	3.582	13.138	3.819	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-011	RE15-10-8253	GROSS BETA	32.688	5.715	7.891	3.407		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-012	RE15-10-8252	GROSS ALPHA	2.746	3.546	13.798	4.188	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-012	RE15-10-8252	GROSS BETA	35.047	6.091	8.879	3.904		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-013	RE15-10-8264	GROSS ALPHA	18.758	7.035	13.380	3.990		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-013	RE15-10-8264	GROSS BETA	37.384	6.327	7.991	3.459		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-014	RE15-10-8251	GROSS ALPHA	9.207	4.947	12.428	3.572	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-014	RE15-10-8251	GROSS BETA	28.501	5.280	8.199	3.569		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-015	RE15-10-8250	GROSS ALPHA	9.265	5.182	13.645	4.049	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-015	RE15-10-8250	GROSS BETA	36.111	6.111	7.756	3.345		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-016	RE15-10-8249	GROSS ALPHA	3.355	4.301	16.569	5.426	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-016	RE15-10-8249	GROSS BETA	27.286	5.120	8.204	3.568		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-017	RE15-10-8248	GROSS ALPHA	2.496	3.730	14.783	4.559	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-017	RE15-10-8248	GROSS BETA	31.617	5.622	8.177	3.548		PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-018	RE15-10-8247	GROSS ALPHA	3.909	4.426	16.310	5.220	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-018	RE15-10-8247	GROSS BETA	30.943	5.717	9.264	4.075		PC/g	2/18/2010	CR	N/A	SO	



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2096

ARS Sample Delivery Group: ARS1-10-00262
 Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment [SO])
 Analysis Test Method: GPC-A-003

Request or PO Number: N/A
 Date Received: 2/17/2010
 Report Date: 02/18/10 12:34

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2s	MD	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00262-019	RE15-10-8894	GROSS ALPHA	7.676	5.176	15.661	5.050	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-019	RE15-10-8894	GROSS BETA	23.779	4.717	7.870	3.391	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-020	RE15-10-8349	GROSS ALPHA	14.120	6.531	15.732	5.045	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-020	RE15-10-8349	GROSS BETA	38.731	6.505	8.084	3.491	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-021	RE15-10-8348	GROSS ALPHA	12.891	6.315	15.594	5.082	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-021	RE15-10-8348	GROSS BETA	42.571	6.852	7.546	3.242	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-022	RE16-10-1514	GROSS ALPHA	1.837	3.758	15.319	4.839	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-022	RE16-10-1514	GROSS BETA	45.190	7.195	8.022	3.465	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-023	RE16-10-13141	GROSS ALPHA	-1.251	2.802	15.097	5.002	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-023	RE16-10-13141	GROSS BETA	26.989	4.999	7.752	3.346	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-024	RE16-10-13142	GROSS ALPHA	9.142	5.361	14.808	4.762	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-024	RE16-10-13142	GROSS BETA	35.501	6.042	7.756	3.343	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-025	RE16-10-13143	GROSS ALPHA	8.291	5.673	16.892	5.656	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-025	RE16-10-13143	GROSS BETA	37.273	6.288	7.980	3.444	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-026	RE16-10-13147	GROSS ALPHA	5.527	5.069	17.198	6.082	U	PC/g	2/18/2010	CR	N/A	SO	
ARS1-10-00262-026	RE16-10-13147	GROSS BETA	32.272	5.756	8.540	3.729	U	PC/g	2/18/2010	CR	N/A	SO	
NOTES:													

Project Manager Review

Notice: 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.

LEAP Certificate# 01949

NELAP Certificate # E875S8

DATA VALIDATION COVER SHEET

5122-1

Records Use only

Data Validation Cover Sheet



Section I.

REQUEST NUMBER: 10-1956 VALIDATION DATE: 4/06/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Eyda Hergenreder 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. RAWBSS 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

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

1. The ICAL RRF value for p-nitrotoluene associated with samples RE15-10-8247, -8254, -8268 and -8264 was <0.05 but ≥ 0.01 . All associated sample results were NDs and, thus, were qualified UJ,HE7b.
2. The ICV and/or CCV %Ds for RDX associated with all samples, for PETN associated with samples -8252, -8253, -8250, -8251, -8248 and -8249 and for HMX associated with samples -8247, -8254, -8268 and -8264 were >20% with positive bias. All associated sample results were NDs and, thus, were not qualified.
3. The LCS %R for TATB was > the laboratory UAL. All associated sample results were NDs and, thus, were not qualified.
4. The MS/MSD RPD for tetryl was > the laboratory acceptance limit. All associated sample results were NDs and, thus, were qualified UJ,HE12g. It should be noted that the MS/MSD analyses were performed on a sample from another LANL RN and the raw data for the parent sample was not included in the data package. No data were qualified as a result.

Reviewed by: Mary Donovan

Level: I

Date: 04/07/10

VALIDATOR'S SIGNATURE: _____


A handwritten signature in cursive script that reads 'Eyda Hergenreder'.

DATE: 4/06/10


Form 5122-1, Revision 0.0

LOS ALAMOS

Environmental Restoration Project

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

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

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

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

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST


5122-2

LC/MS/MS High Explosive Analytical Data Validation Checklist

Records Use only



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

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

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319079a

Date Analyzed: 21-MAR-10 07:15

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,HE12g	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

EH
4/06/10

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190018.wiff

Date Analyzed: 19-MAR-10 10:58

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319080a

Date Analyzed: 21-MAR-10 07:44

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12g	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: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190019.wiff

Date Analyzed: 19-MAR-10 11:14

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319081a

Date Analyzed: 21-MAR-10 08:14

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12g	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: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190020.wiff

Date Analyzed: 19-MAR-10 11:29

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319082a

Date Analyzed: 21-MAR-10 08:43

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,HE12g	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: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190021.wiff

Date Analyzed: 19-MAR-10 11:45

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
		Sample Amount		Factor

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319083a

Date Analyzed: 21-MAR-10 09:13

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,HE12g	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: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190022.wiff

Date Analyzed: 19-MAR-10 12:01

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	<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: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319084a

Date Analyzed: 21-MAR-10 09:42

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,HE12g	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: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190023.wiff

Date Analyzed: 19-MAR-10 12:16

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 Factor
		<u>Sample Amount</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323014a

Date Analyzed: 23-MAR-10 15:32

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,HE12g	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190027.wiff

Date Analyzed: 19-MAR-10 13:19

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323015a

Date Analyzed: 23-MAR-10 16:01

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12g	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190028.wiff

Date Analyzed: 19-MAR-10 13:35

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	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323016a

Date Analyzed: 23-MAR-10 16:31

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,HE12g	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

Instrument	X	<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: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Molsture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190029.wiff

Date Analyzed: 19-MAR-10 13:51

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323017a

Date Analyzed: 23-MAR-10 17:00

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl UJ,HE12g	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN	1000	U
88-72-2	o-Nitrotoluene	500	U
98-95-3	Nitrobenzene	500	U
99-08-1	m-Nitrotoluene	500	U
99-35-4	1,3,5-Trinitrobenzene	500	U
99-65-0	m-Dinitrobenzene	500	U
99-99-0	p-Nitrotoluene UJ,HE7b	500	U

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190030.wiff

Date Analyzed: 19-MAR-10 14:06

Units: ug/kg

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

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u> Sample Amount	X	Dilution Factor
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DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1956 VALIDATION DATE: 04/06/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Eyda Hergenreder 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): PCBs | | | |

Section II. Completeness Check

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

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

1. It should be noted that the MS/MSD analyses were performed on a sample from another LANL RN and the raw data for the parent sample was not included in the data package. Since MS/MSD analyses are not required for this method, no data were qualified.

Reviewed by: Mary Donovan

Level: I

Date: 04/07/10

VALIDATOR'S SIGNATURE:

A handwritten signature of Eyda Hergenreder.

DATE: 4/06/10

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


5116-2

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


Records Use only _____



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

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

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

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

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

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

5116-2

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

Records Use only _____



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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: 10-1956
Lab Sample ID: 247565007

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8AJ
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.14	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.14	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.14	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.14	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.14	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.14	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.14	3.41	1

EH
4/06/10

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565005

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.J
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.7
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	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565006

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.7
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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565003

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8AJ
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565004

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8251
Batch ID: 957955
Run Date: 03/01/2010 18:18
Prep Date: 02/26/2010 10:21
Data File: 047f4701.d
047b4701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB

Page 1 of 1

Certificate of Analysis
Sample SummarySDG Number: 10-1956
Lab Sample ID: 247565001Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2Matrix: R
%Moisture: 2.8
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565002

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565008

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565010

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.46	ug/kg	1.15	3.46	1
11104-28-2	Aroclor-1221	U	3.46	ug/kg	1.15	3.46	1
11141-16-5	Aroclor-1232	U	3.46	ug/kg	1.15	3.46	1
53469-21-9	Aroclor-1242	U	3.46	ug/kg	1.15	3.46	1
12672-29-6	Aroclor-1248	U	3.46	ug/kg	1.15	3.46	1
11097-69-1	Aroclor-1254	U	3.46	ug/kg	1.15	3.46	1
11096-82-5	Aroclor-1260	U	3.46	ug/kg	1.15	3.46	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565009

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.7
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	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

EH
4/06/10

Friday, February 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1956

LOS ALAMOS

REQUEST NUMBER: 10-1956

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/21/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247565%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8252	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8253	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8250	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8251	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8248	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8249	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8247	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8254	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8268	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8264	1	AMBER GLASS	8082+NMED-HEXP	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

Friday, February 19, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

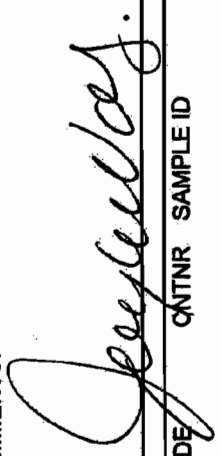
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-1956
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/19/2010
TURNAROUND/REPORT DUE: 3/21/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-8082	1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	

REQUEST NUMBER: 10-1956

Friday, February 19, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8268	R	2/15/2010	
	SW-846:8321A_MOD	1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	
		1	RE15-10-8268	R	2/15/2010	

Final Page of REQUEST NUMBER 10-1956



February 24, 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: 247565
SDG: 10-1956

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 20, 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: 10-1956
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247565
SDG: 10-1956

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247565
SDG # : 10-1956**

February 24, 2010

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 20, 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>
247565001	RE15-10-8252
247565002	RE15-10-8253
247565003	RE15-10-8250
247565004	RE15-10-8251
247565005	RE15-10-8248
247565006	RE15-10-8249
247565007	RE15-10-8247
247565008	RE15-10-8254
247565009	RE15-10-8268
247565010	RE15-10-8264

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 24 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

Friday, February 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1956

LOS ALAMOS

REQUEST NUMBER: 10-1956

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/21/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247565°!

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8252	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8253	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8250	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8251	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8248	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8249	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8247	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8254	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8268	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8264	1	AMBER GLASS	8082+NMED-HEXP	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

Friday, February 19, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/19/2010

TURNAROUND/REPORT DUE: 3/21/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	

Friday, February 19, 2010

REQUEST NUMBER: 10-1956

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8268	R	2/15/2010	
	SW-846:8321A_MOD	1	RE15-10-8247	R	2/15/2010	
		1	RE15-10-8248	R	2/15/2010	
		1	RE15-10-8249	R	2/15/2010	
		1	RE15-10-8250	R	2/15/2010	
		1	RE15-10-8251	R	2/15/2010	
		1	RE15-10-8252	R	2/15/2010	
		1	RE15-10-8253	R	2/15/2010	
		1	RE15-10-8254	R	2/15/2010	
		1	RE15-10-8264	R	2/15/2010	
		1	RE15-10-8268	R	2/15/2010	

Final Page of REQUEST NUMBER 10-1956



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1956		
Received By: Patricia Dover-Dent			Date Received: February 20, 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*: 40 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) 2-6 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

7209 7850 1448 2C
 7209 7850 1426 2C
 7209 7850 1437 3C
 7209 7850 1460 4C
 7209 7850 1470 6C
 7209 7850 1459 6C
 7209 7850 1415 5C
 7209 7850 1390 12C
 7209 7850 1404 12C

PM (or PMA) review: Initials

Date

2/22/10

ORIGIN ID: SAFA (005) 655-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 79FEB10
ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

2°

0014176/CAFE2450



FedEx
Express



ORIGIN ID: SAFA (005) 655-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

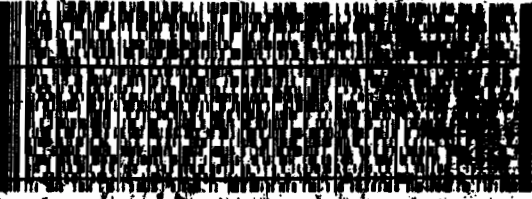
SHIP DATE: 79FEB10
ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

2°

0014176/CAFE2450



FedEx
Express



2 of 2
NPSN 7209 7850 1448
Matr# 7209 7850 1437 0291
SATURDAY ###
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



2 of 2
NPSN 7209 7850 1426
Matr# 7209 7850 1415 0291
SATURDAY ###
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (005) 655-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 79FEB10
ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

3°

0014176/CAFE2450



FedEx
Express



1 of 2
NPSN 7209 7850 1437
Matr# 7209 7850 1437 0291
SATURDAY ###
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS

ORIGIN ID: SAFA (005) 655-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 79FEB10
ACTWGT: 68.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

4°

0014176/CAFE2450



FedEx
Express



2 of 2
NPSN 7209 7850 1460
Matr# 7209 7850 1459 0291
SATURDAY ###
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



8

WITIN ID: SRA (505) 665-0068

JOYLINE VAL DEZ

LOS ALAMOS NATL LAB
T800 BLDG 1207 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 10FEB10
ACTWGT: 59.0 LB MAX
CAD: 0014178/CAFE2450

BILL SENDER

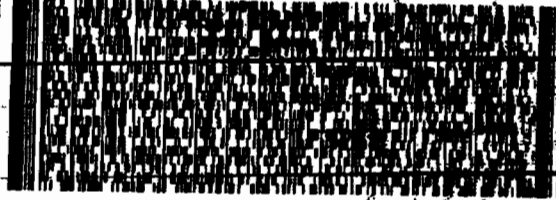
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 856-8171

REF: 68010AMR3A05529E00

0014178/CAFE2450



FedEx
Express



2 of 3

SATURDAY ### A1

MPS#
0263

7209 7850 1390

PRIORITY OVERNIGHT

Matr# 7209 7850 1389 0261

X0 CHSA

29407

SC-US
CHS



LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 856-8171

REF: 68010AMR3A05529E00

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3 of 3

SATURDAY ### A1

MPS#
0263

7209 7850 1404

PRIORITY OVERNIGHT

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X0 CHSA

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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 10-1956**

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: 956053

Prep Batch Number: 956051

Sample Analysis

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

Sample ID	Client ID
247565001	RE15-10-8252
247565002	RE15-10-8253
247565003	RE15-10-8250
247565004	RE15-10-8251
247565005	RE15-10-8248
247565006	RE15-10-8249
247565007	RE15-10-8247
247565008	RE15-10-8254
247565009	RE15-10-8268
247565010	RE15-10-8264
1202049932	Method Blank (MB)
1202049933	Laboratory Control Sample (LCS)
1202049934	247556001(RE16-10-1514) Matrix Spike (MS)
1202049935	247556001(RE16-10-1514) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference

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

Primary Analyte Analysis

Calibration Information

Initial Calibration

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

10-1956-EXPLCMS

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries were within the established acceptance limits.

QC Sample Designation

Client sample 247556001 (RE16-10-1514) from SDG 10-1953 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The MS/MSD RPD for Tetryl was 33.2%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 808778.

Internal Standard (ISTD) Acceptance

The internal standard responses were within the required acceptance criteria for all samples and QC in this SDG.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

Samples 247565007(RE15-10-8247), 247565008(RE15-10-8254), 247565009(RE15-10-8268) and 247565010(RE15-10-8264) were re-analyzed due to internal standard recoveries in the bracketing CCV and CRI that did not meet acceptance criteria. The re-analysis passed acceptance criteria and is reported.

Secondary Analyte Analysis

Calibration Information

Initial Calibration

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

Calibration Verification Standard Requirements

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

Calibration Blank Requirements

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

CRI Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS recovered TATB at 170%. The recovery limits are 28-162%. While the LCS exhibited a high bias in the, both the MS and MSD met acceptance limits for TATB. Since TATB was not detected in the associated samples, the data are reported. Please see data exception report 808778.

QC Sample Designation

Client sample 247556001 (RE16-10-1514) from SDG 10-1953 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS spike recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD spike recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Internal Standard (ISTD) Acceptance

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

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

Sample Re-extraction/Re-analysis

Samples 247565001(RE15-10-8252), 247565002(RE15-10-8253), 247565003(RE15-10-8250), 247565004(RE15-10-8251), 247565005(RE15-10-8248), 247565006(RE15-10-8249), 247565007(RE15-10-8247), 247565008(RE15-10-8254), 247565009(RE15-10-8268) and 247565010(RE15-10-8264) were re-analyzed due to the bracketing CCV and/or CRI that did not meet acceptance criteria. The last re-analysis passed acceptance criteria and is reported.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 808778 was generated for this SDG.

The LCS recovered TATB at 170%. The recovery limits are 28-162%. While the LCS exhibited a high bias in the, both the MS and MSD met acceptance limits for TATB. Since TATB was not detected in the associated samples, the data are reported.

The MS/MSD RPD for Tetryl was 33.2%. The acceptance limits are 0-30%. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported.

Manual Integrations

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

Flagging Convention

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

Additional Comments

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

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

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

System Configuration

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

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: Nesbitt M. Maier Date: 03/28/10

SAMPLE DATA SUMMARY

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319079a

Date Analyzed: 21-MAR-10 07:15

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: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190018.wiff

Date Analyzed: 19-MAR-10 10:58

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319080a

Date Analyzed: 21-MAR-10 07:44

Units: ug/kg

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

*Concentration =

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

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190019.wiff

Date Analyzed: 19-MAR-10 11:14

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: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319081a

Date Analyzed: 21-MAR-10 08:14

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190020.wiff

Date Analyzed: 19-MAR-10 11:29

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319082a

Date Analyzed: 21-MAR-10 08:43

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: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190021.wiff

Date Analyzed: 19-MAR-10 11:45

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: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319083a

Date Analyzed: 21-MAR-10 09:13

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190022.wiff

Date Analyzed: 19-MAR-10 12:01

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: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319084a

Date Analyzed: 21-MAR-10 09:42

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190023.wiff

Date Analyzed: 19-MAR-10 12:16

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 Factor
		<u>Sample Amoun</u>		

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323014a

Date Analyzed: 23-MAR-10 15:32

Units: ug/kg

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

*Concentration =

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190027.wiff

Date Analyzed: 19-MAR-10 13:19

Units: ug/kg

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

*Concentration =

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

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323015a

Date Analyzed: 23-MAR-10 16:01

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190028.wiff

Date Analyzed: 19-MAR-10 13:35

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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323016a

Date Analyzed: 23-MAR-10 16:31

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: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190029.wiff

Date Analyzed: 19-MAR-10 13:51

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: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323017a

Date Analyzed: 23-MAR-10 17:00

Units: ug/kg

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

*Concentration =

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

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190030.wiff

Date Analyzed: 19-MAR-10 14:06

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): 10-1956

Lab Code: GEL

HPLC Column: Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247565001	RE15-10-8252	92.8	70 - 144	
247565001	RE15-10-8252	106	70 - 144	
247565002	RE15-10-8253	96.9	70 - 144	
247565002	RE15-10-8253	109	70 - 144	
247565003	RE15-10-8250	96.5	70 - 144	
247565003	RE15-10-8250	110	70 - 144	
247565004	RE15-10-8251	96.3	70 - 144	
247565004	RE15-10-8251	103	70 - 144	
247565005	RE15-10-8248	95.2	70 - 144	
247565005	RE15-10-8248	103	70 - 144	
247565006	RE15-10-8249	96.1	70 - 144	
247565006	RE15-10-8249	103	70 - 144	
247565007	RE15-10-8247	104	70 - 144	
247565007	RE15-10-8247	103	70 - 144	
247565008	RE15-10-8254	100	70 - 144	
247565008	RE15-10-8254	110	70 - 144	
247565009	RE15-10-8268	102	70 - 144	
247565009	RE15-10-8268	100	70 - 144	
247565010	RE15-10-8264	105	70 - 144	
247565010	RE15-10-8264	97.2	70 - 144	
1202049932	MB for batch 956051	92	70 - 144	
1202049932	MB for batch 956051	85.8	70 - 144	
1202049933	LCS for batch 956051	96	70 - 144	
1202049933	LCS for batch 956051	93	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) 10-1956

Extract Batch Code: 956051

Date Extracted: 25-FEB-10

GEL LCS ID: 1202049933

GEL LCSDUP ID:

Analysis Date/Time: 20-MAR-10 23:23

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
PETN	5000	5840	117					64 - 137
RDX	5000	5530	111					81 - 137
1,3,5-Trinitrobenzene	5000	4860	97.1					69 - 126
2,4-Dinitrotoluene	5000	5390	108					87 - 137
HMX	5000	4910	98.2					58 - 138
4-Amino-2,6-dinitrotoluene	5000	5070	101					84 - 130
2-Amino-4,6-dinitrotoluene	5000	4910	98.3					90 - 130
2,6-Dinitrotoluene	5000	5210	104					89 - 120
2,4,6-Trinitrotoluene	5000	4730	94.5					73 - 149
Tetryl	5000	2740	54.9					51 - 112
m-Dinitrobenzene	5000	5140	103					83 - 122
m-Nitrotoluene	5000	4770	95.5					73 - 118
o-Nitrotoluene	5000	4490	89.9					72 - 119
p-Nitrotoluene	5000	4770	95.4					67 - 131
Nitrobenzene	5000	5050	101					71 - 122

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) 10-1956

Extract Batch Code: 956051

Date Extracted: 25-FEB-10

GEL LCS ID: 1202049933

GEL LCSDUP ID:

Analysis Date/Time: 16-MAR-10 11:57

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	4460	89.2					52 - 114
2,6-Diamino-4-nitrotoluene	5000	4830	96.6					64 - 122
3,5-Dinitroaniline	5000	4960	99.2					70 - 127
TATB	5000	8490	170 *					28 - 162
tris(o-cresyl) phosphate	5000	5140	103					84 - 119

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: RE16-10-1514

Lab Code: GEL

GEL Job No (SDG) 10-1956

Extract Batch Code: 956051

Date Extracted: 25-FEB-10

GEL Spike ID: 1202049934

GEL SpikeDup ID: 1202049935

Analysis Date/Time: 21-MAR-10 02:49

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
Nitrobenzene	5000	0	5030	101	4740	94.8	5.88	30	70 – 122
PETN	5000	0	5470	109	5910	118	7.77	30	60 – 140
1,3,5-Trinitrobenzene	5000	0	4750	94.9	4320	86.5	9.34	30	50 – 140
2,4-Dinitrotoluene	5000	0	5130	103	5080	102	1.08	30	86 – 135
HMX	5000	8.64	5070	101	5050	101	.508	30	51 – 144
4-Amino-2,6-dinitrotoluene	5000	0	4630	92.6	4790	95.9	3.42	30	72 – 143
2-Amino-4,6-dinitrotoluene	5000	0	4560	91.3	4570	91.3	.048	30	85 – 137
2,6-Dinitrotoluene	5000	0	5210	104	5010	100	3.93	30	90 – 118
2,4,6-Trinitrotoluene	5000	0	4320	86.4	4350	87.1	.769	30	76 – 144
RDX	5000	7.69	6020	120	5610	112	7.13	30	59 – 152
Tetryl	5000	0	2680	53.5	1910	38.3	33.2 *	30	36 – 124
m-Dinitrobenzene	5000	0	5010	100	4850	97.1	3.24	30	85 – 118
m-Nitrotoluene	5000	0	5010	100	4650	93	7.53	30	70 – 120
o-Nitrotoluene	5000	0	4470	89.4	4740	94.8	5.85	30	69 – 123
p-Nitrotoluene	5000	0	5030	101	4880	97.7	2.99	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: RE16-10-1514

Lab Code: GEL

GEL Job No (SDG) 10-1956

Extract Batch Code: 956051

Date Extracted: 25-FEB-10

GEL Spike ID: 1202049934

GEL SpikeDup ID: 1202049935

Analysis Date/Time: 16-MAR-10 13:47

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
2,4-Diamino-6-nitrotoluene	5000	0	4330	86.6	4110	82.2	5.21	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4400	88	4320	86.4	1.84	30	55 - 130
3,5-Dinitroaniline	5000	0	4690	93.8	4820	96.4	2.73	30	73 - 129
TATB	5000	0	5180	104	4300	86	18.6	30	29 - 155
tris(o-cresyl) phosphate	5000	0	4880	97.6	4900	98	.409	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): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 16:54

GEL Data File: EXP0319001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	423.048
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.815
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\031910expa.mdb, Time: Sat Mar 20 10:50:15 2010

Calibration: Untitled, Time: Sat Mar 20 11:05:24 2010

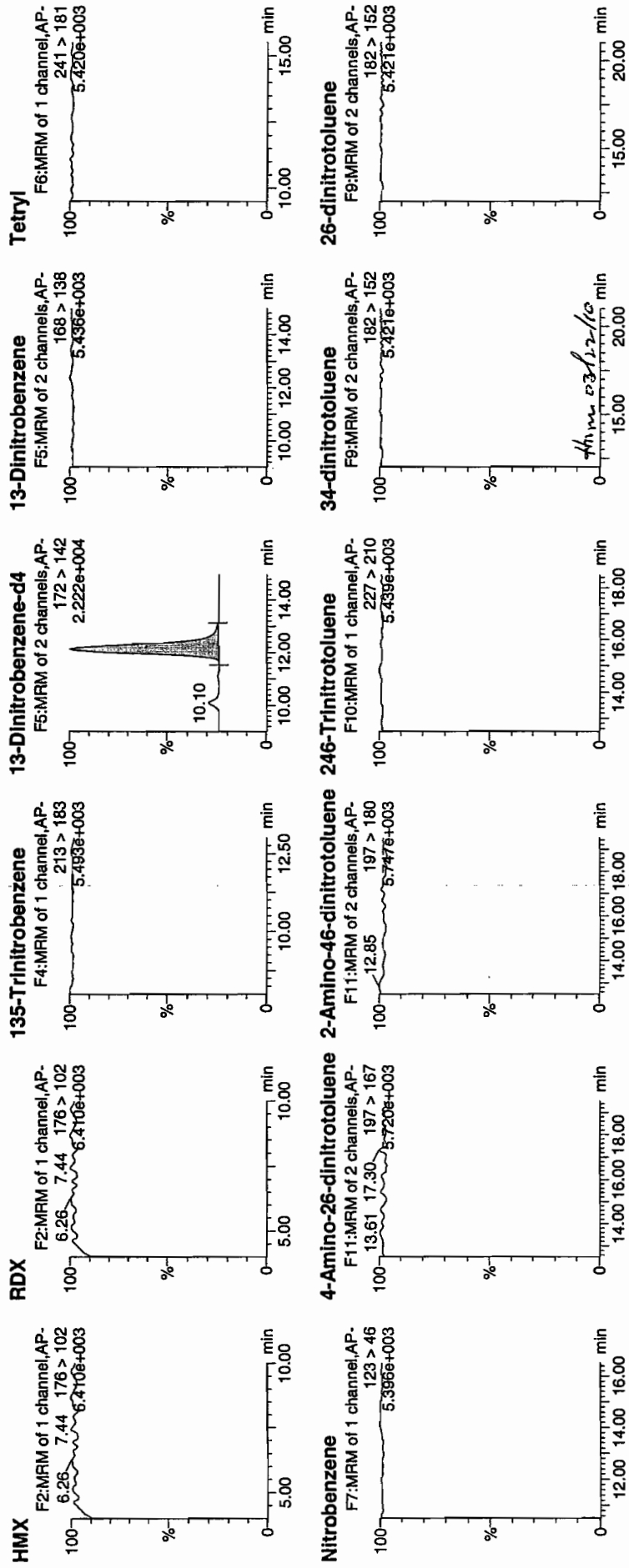
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Date: 19-Mar-2010

Time: 16:54:21

ID: XIBLK01

Vial: 1:1,A



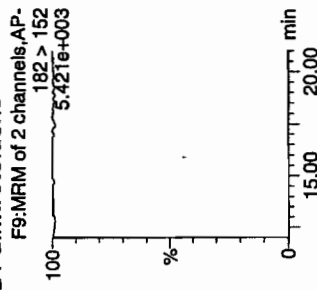
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

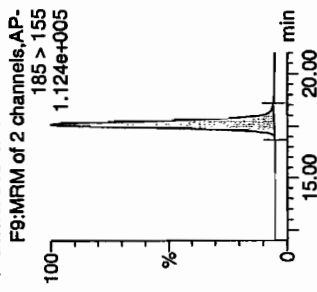
Printed: Sat Mar 20 11:06:08 2010, Page 2 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

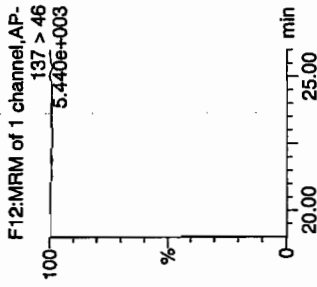
24-dinitrotoluene



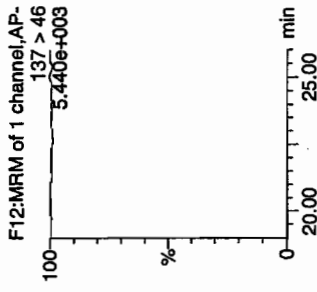
26-dinitrotoluene-d3



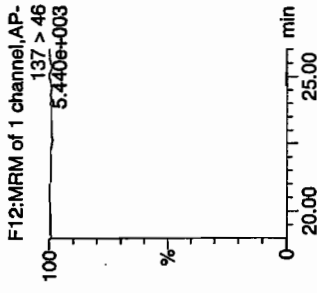
2-Nitrotoluene



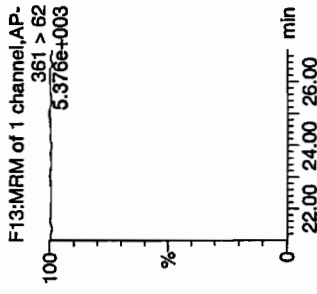
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Flag	Mod Date	Mod Time	Norm	Sec	Exp	Day	S/N
XIBLK01	HMX	176 > 102	6944.893	6944.893										
XIBLK01	RDX	176 > 102	6944.893	6944.893										
XIBLK01	135-Trinitrobenzene	213 > 183		6944.893										
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.14	6944.893			bb			423.0481	84.6	-15.4	1619.9	
XIBLK01	13-Dinitrobenzene	168 > 138		6944.893										
XIBLK01	Tetryl	241 > 181		6944.893										
XIBLK01	Nitrobenzene	123 > 46		6944.893										
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		44313.852										
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		44313.852										
XIBLK01	246-Trinitrotoluene	227 > 210		44313.852										
XIBLK01	34-dinitrotoluene	182 > 152		44313.852										
XIBLK01	26-dinitrotoluene	182 > 152		44313.852										
XIBLK01	24-dinitrotoluene	182 > 152		44313.852										
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.60	44313.852			bb			475.8152	95.2	-4.8	2362.3	
XIBLK01	2-Nitrotoluene	137 > 46		44313.852										
XIBLK01	4-Nitrotoluene	137 > 46		44313.852										
XIBLK01	3-Nitrotoluene	137 > 46		44313.852										
XIBLK01	PETN	361 > 62		44313.852										

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 17:23

GEL Data File: EXP0319002a

Instrument ID: LCMSMS

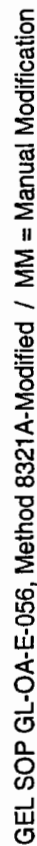
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	530.201
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	529.637
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

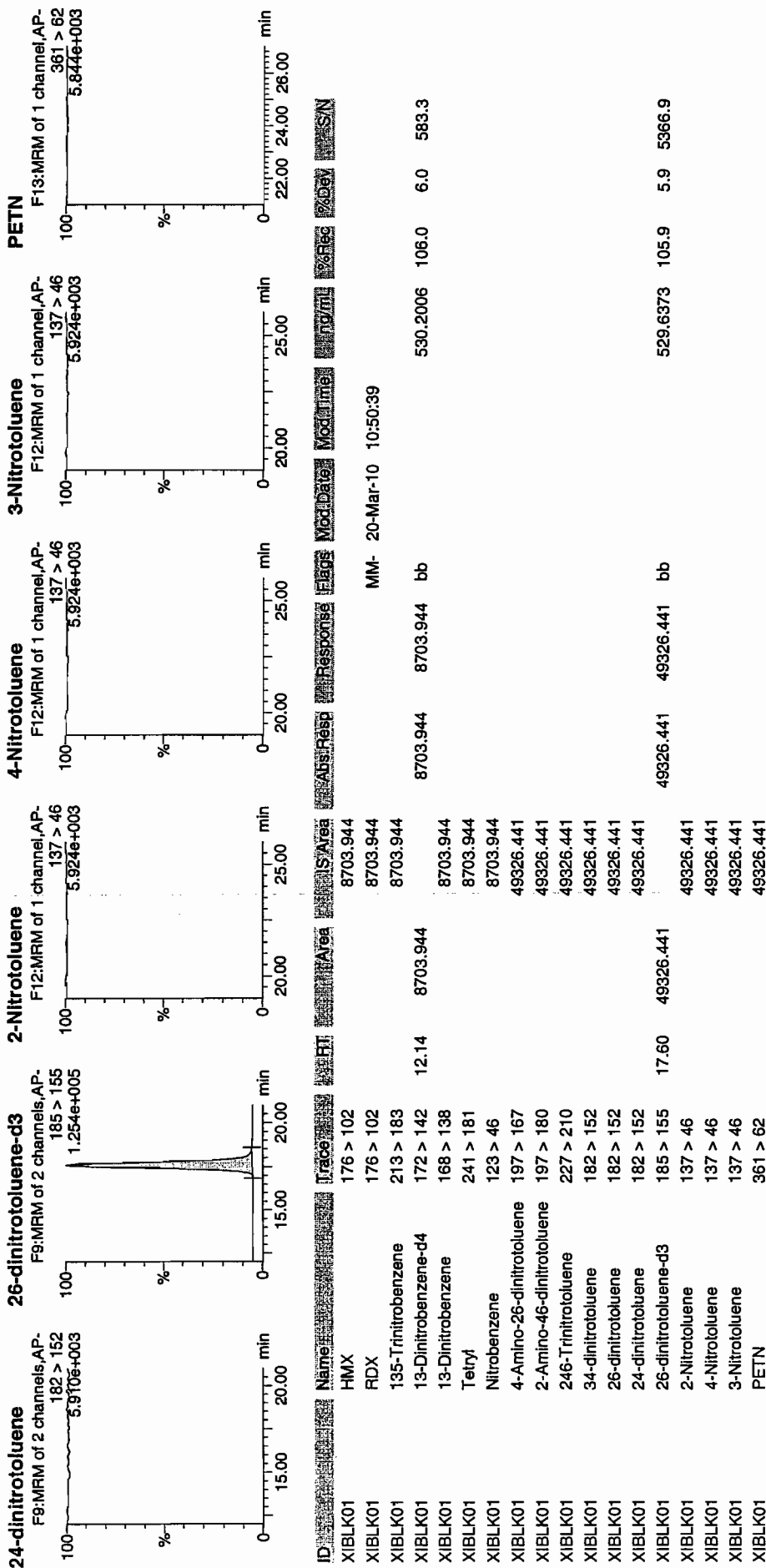
Date: 19-Mar-2010

ID: XIBLK01

of 607



Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:08

GEL Data File: EXP0323001a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	229.482
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	228.802
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 1 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Method: C:\MASSLYNX\New_Exp.PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010

Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323001a

Date: 23-Mar-2010

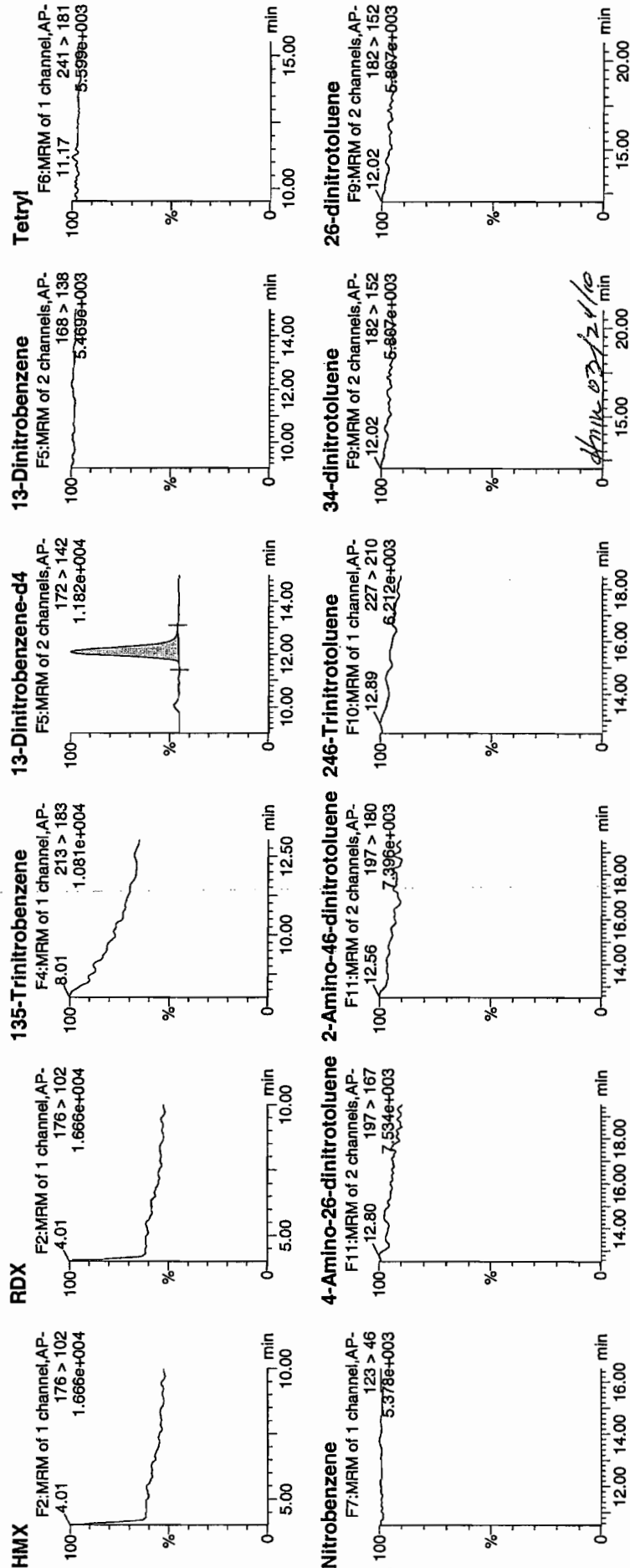
Time: 09:08:58

ID: XIBLK01

Vial: 1:1,A

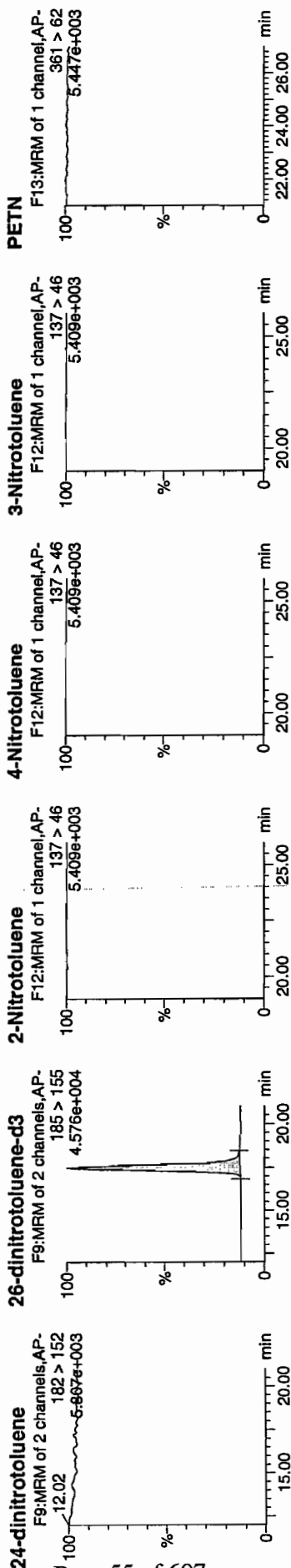
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3/24/10



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
XIBLK01	HMx	176 > 102		2526.262									
XIBLK01	RDX	176 > 102		2526.262									
XIBLK01	135-Trinitrobenzene	213 > 183		2526.262									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	12.07	2526.262									
XIBLK01	13-Dinitrobenzene	168 > 138		2526.262									
XIBLK01	Tetryl	241 > 181		2526.262									
XIBLK01	Nitrobenzene	123 > 46		15755.593									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		15755.593									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		15755.593									
XIBLK01	246-Trinitrotoluene	227 > 210		15755.593									
XIBLK01	34-dinitrotoluene	182 > 152		15755.593									
XIBLK01	26-dinitrotoluene	182 > 152		15755.593									
XIBLK01	24-dinitrotoluene	182 > 152		15755.593									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.47	15755.593									
XIBLK01	2-Nitrotoluene	137 > 46		15755.593									
XIBLK01	4-Nitrotoluene	137 > 46		15755.593									
XIBLK01	3-Nitrotoluene	137 > 46		15755.593									
XIBLK01	PETN	361 > 62		15755.593									

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 23-MAR-10 09:38

GEL Data File: EXP0323002a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	249.294
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	247.4
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 3 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323002a

Date: 23-Mar-2010

Time: 09:38:34

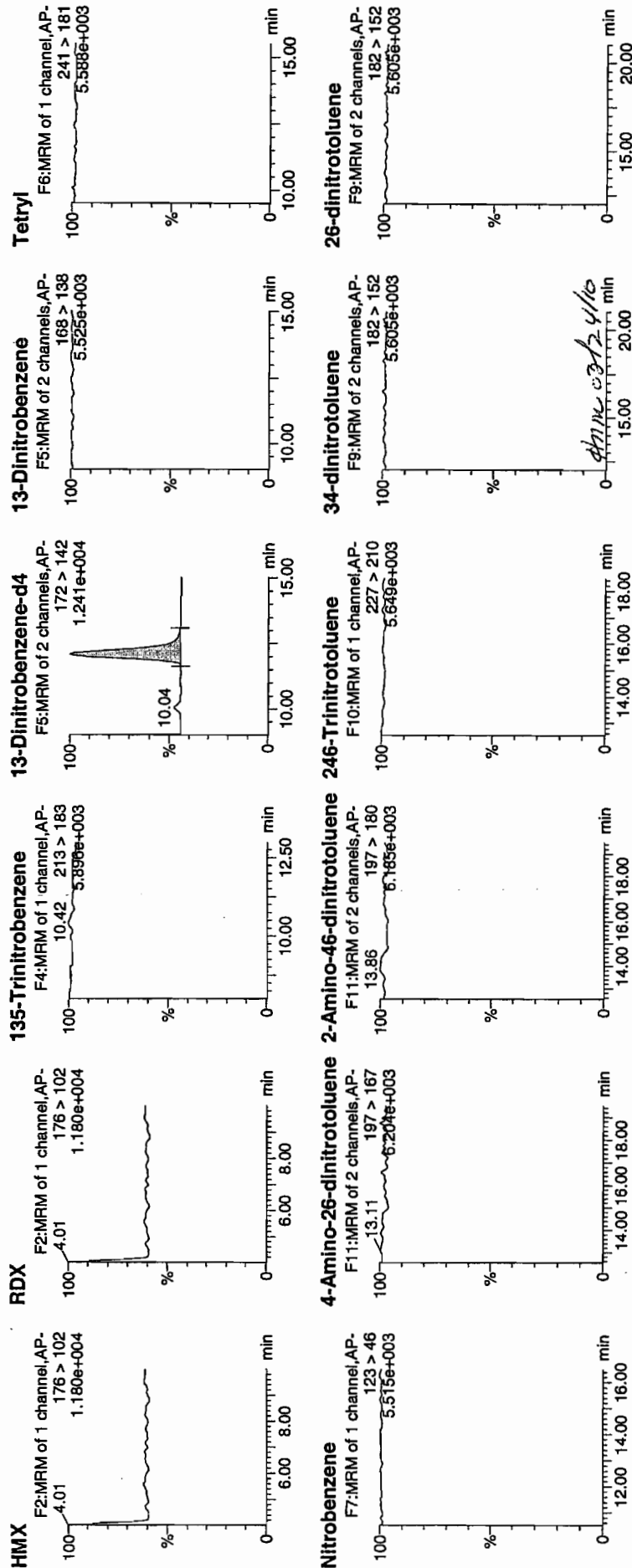
ID: XIBLK01

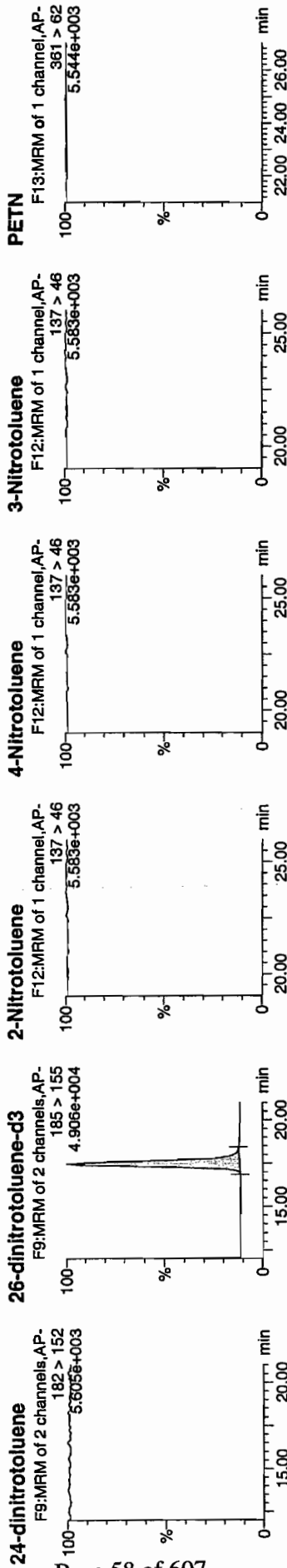
Vial: 1:1,A

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3/24/10

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ID	Name	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Dev	%S/N
XIBLK01	HMX	176 > 102	2744.369	2744.369							
XIBLK01	RDX	176 > 102	2744.369	2744.369							
XIBLK01	135-Trinitrobenzene	213 > 183	2744.369	2744.369							
XIBLK01	13-Dinitrobenzene-d4	172 > 142	2744.369	2744.369							
XIBLK01	13-Dinitrobenzene	168 > 138	2744.369	2744.369							
XIBLK01	Tetryl	241 > 181	2744.369	2744.369							
XIBLK01	Nitrobenzene	123 > 46	17036.252	17036.252							
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167	17036.252	17036.252							
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180	17036.252	17036.252							
XIBLK01	246-Trinitrotoluene	227 > 210	17036.252	17036.252							
XIBLK01	34-dinitrotoluene	182 > 152	17036.252	17036.252							
XIBLK01	26-dinitrotoluene	182 > 152	17036.252	17036.252							
XIBLK01	24-dinitrotoluene	182 > 152	17036.252	17036.252							
XIBLK01	26-dinitrotoluene-d3	185 > 155	17036.252	17036.252							
XIBLK01	2-Nitrotoluene	137 > 46	17036.252	17036.252							
XIBLK01	4-Nitrotoluene	137 > 46	17036.252	17036.252							
XIBLK01	3-Nitrotoluene	137 > 46	17036.252	17036.252							
XIBLK01	PETN	361 > 62									

Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-MAR-10 08:17

GEL Data File: EXS03160001.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

Scan 3/18/10

Sample Name: "XIBLX01" Sample ID: "T1LER" File: "EXS03160001.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

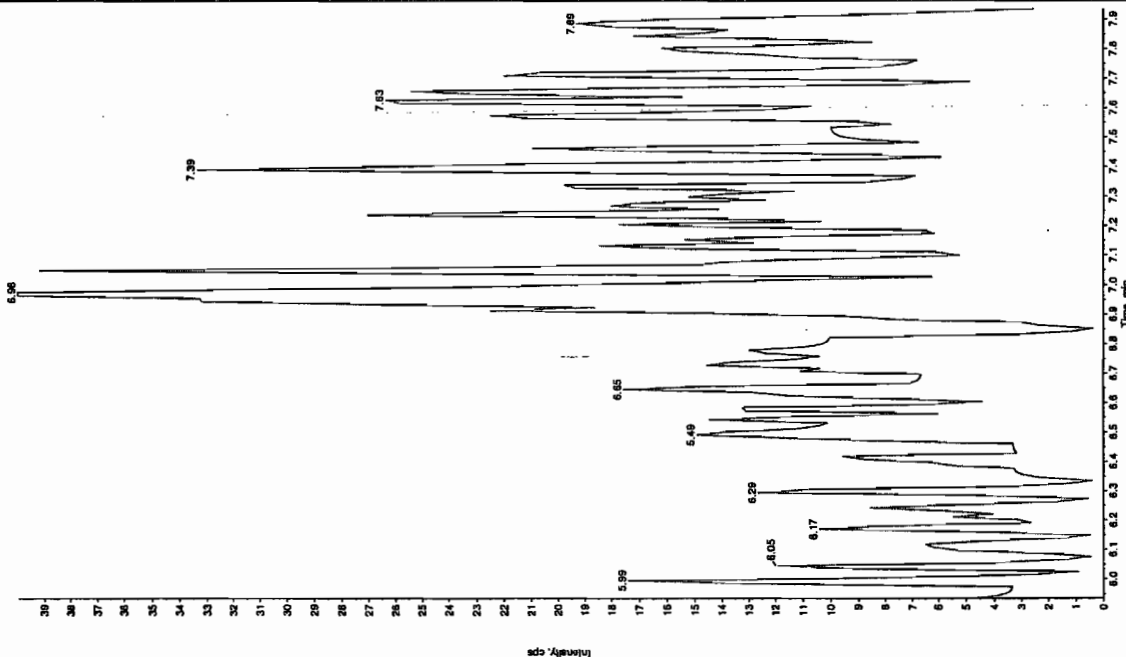
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/16/2010

Acq. Time: 8:17:47 AM

Modified: NO



Sample Name: "XIBLX01" Sample ID: "T1LER" File: "EXS03160001.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

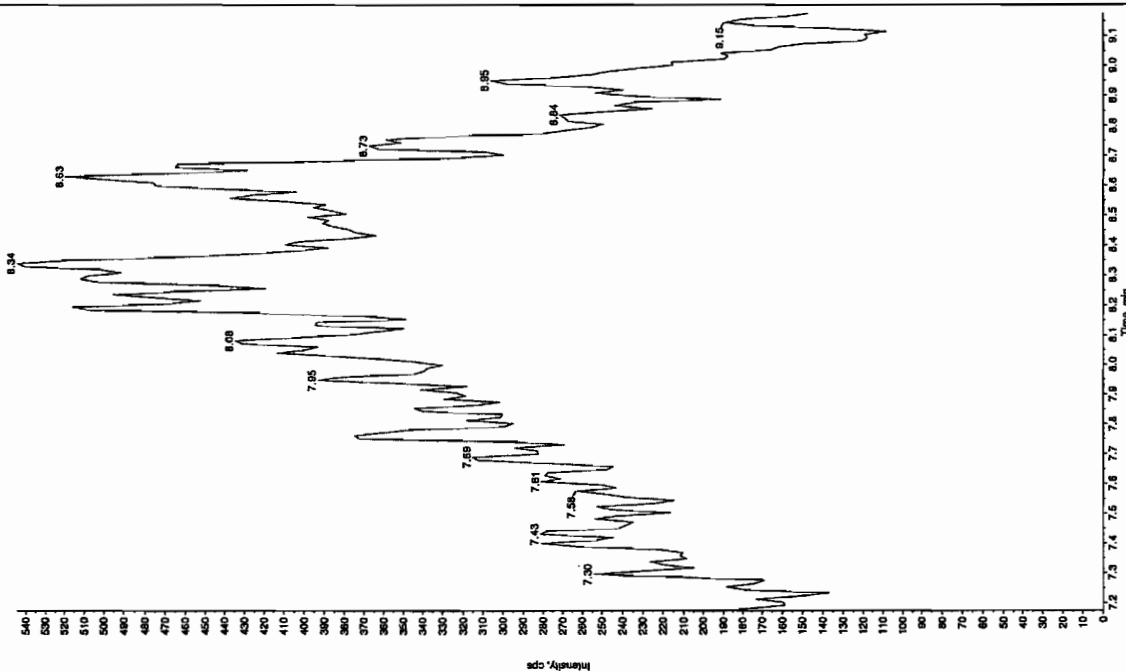
Sample Type: Unknown

Concentration: 0.00 ng/mL

Acq. Date: 3/16/2010

Acq. Time: 8:17:47 AM

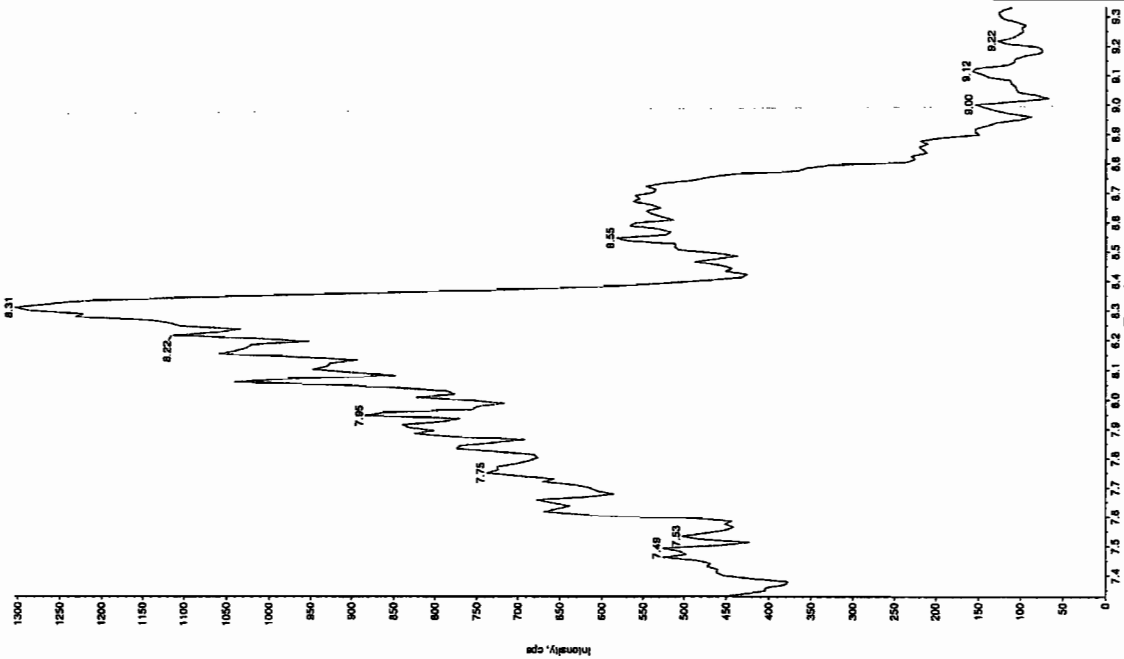
Modified: NO



Have on hand

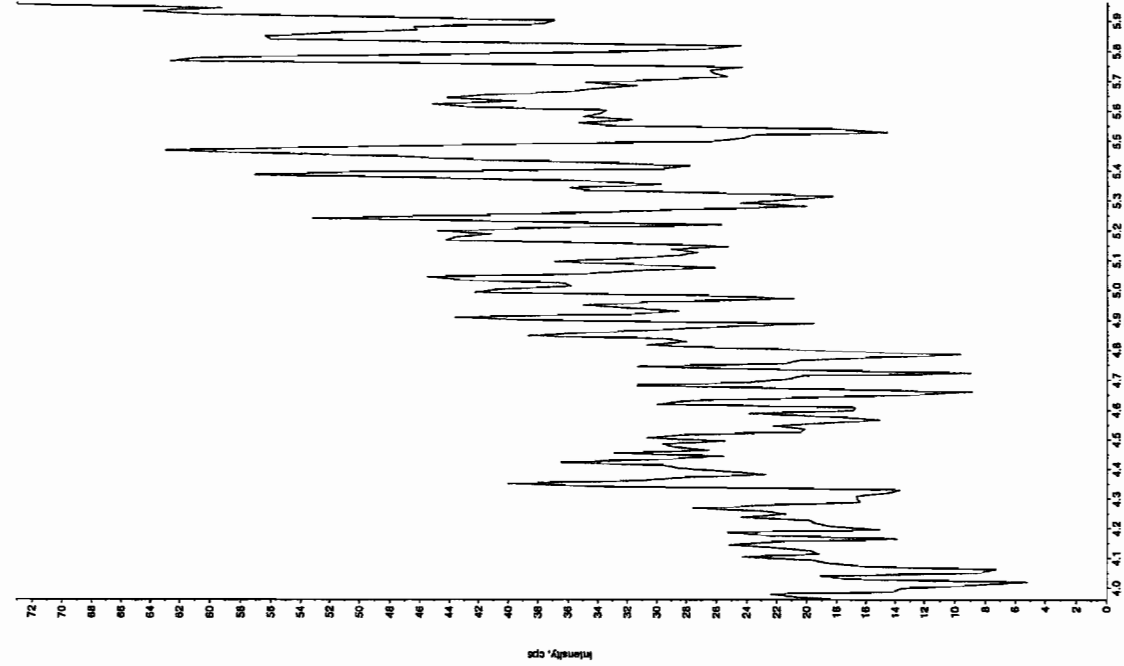
Sample Name: "XBLK01" Sample ID: "J1LER" File: "EXS03160001.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/16/2010
 Acq. Time: 8:17:47 AM
 Modified: No



Sample Name: "XBLK01" Sample ID: "J1LER" File: "EXS03160001.wif"
 Peak Name: "25-Dinitro-4-nitrofluorene" Mass(es): "196.0/166.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Date: 3/16/2010
 Acq. Time: 8:17:47 AM
 Modified: No

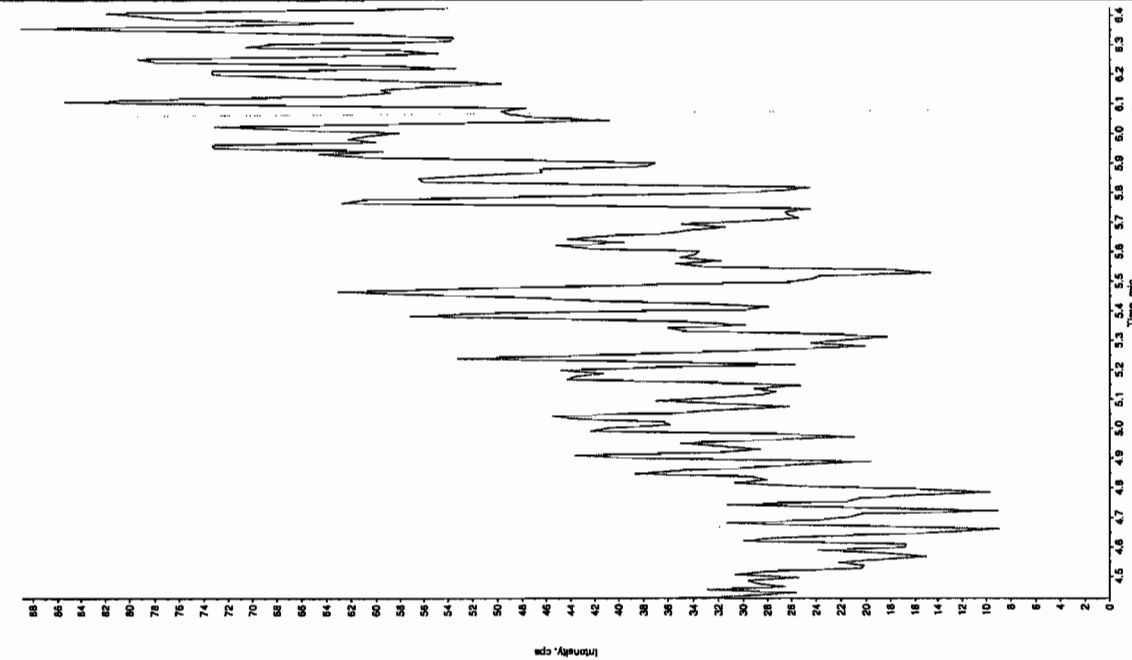


Sample Name: "XIBLX01" Sample ID: "111LER" File: "EXS03160001.wif"
 Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/15/2010
 Date: 8/17/07 AM
 Acq. Time: 8:17:47 AM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.77e+004 counts
 Height: 9390.677 cps
 Start Time: 10.8 min
 End Time: 11.0 min

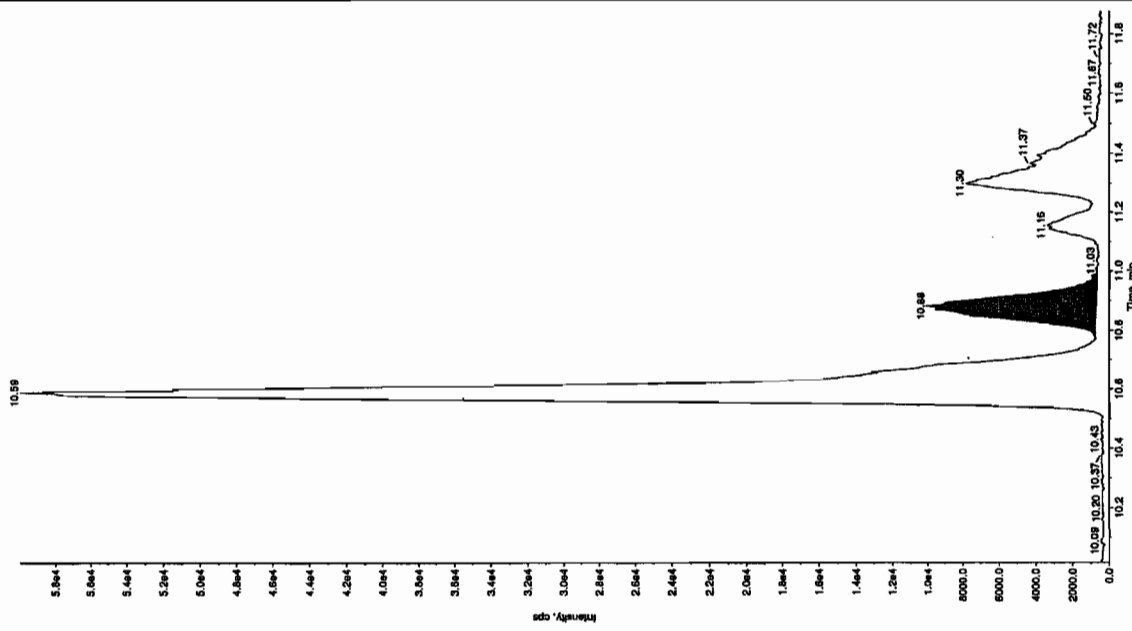


Sample Name: "XIBLX01" Sample ID: "111LER" File: "EXS03160001.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "388.1781.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Date: 3/15/2010
 Acq. Time: 8:17:47 AM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No

Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.77e+004 counts
 Height: 9390.677 cps
 Start Time: 10.8 min
 End Time: 11.0 min



Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 16-MAR-10 08:33

GEL Data File: EXS03160002.wiff

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

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

See 3/18/10

Sample Name: "XIBLK01" Sample ID: "111LER" File: "EXS03160002.wif"

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

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

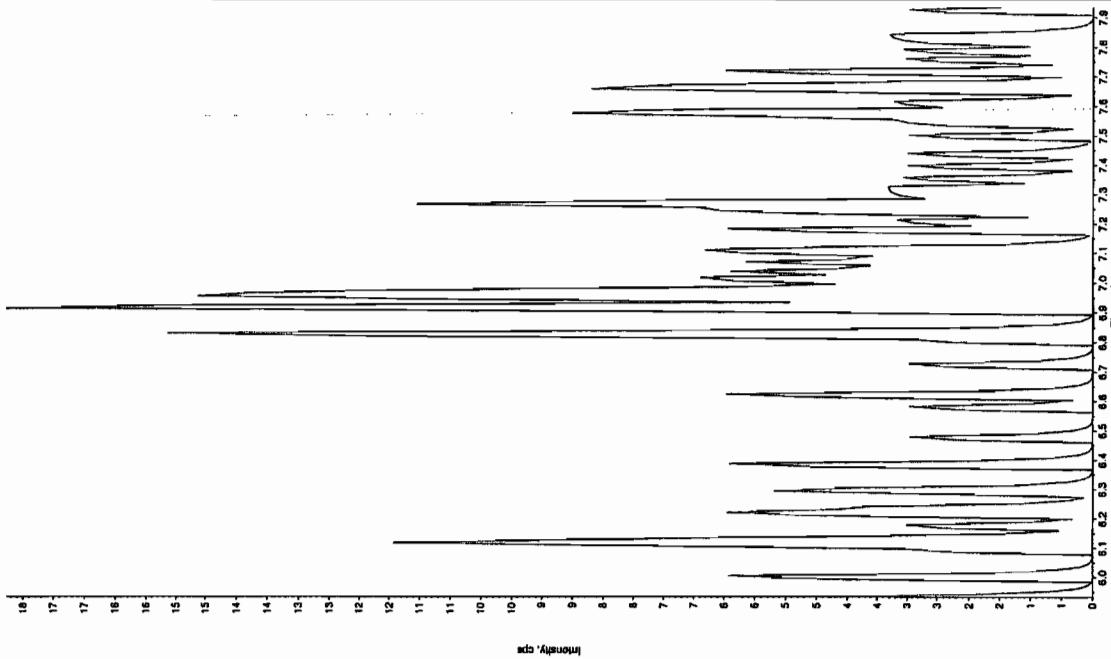
Concentration: 0.00 ng/mL

Calculated Conc: 3/16/2010

Acq. Date: 8:33:34 AM

Acq. Time: 8:33:34 AM

Modified: No



Sample Name: "XIBLK01" Sample ID: "111LER" File: "EXS03160002.wif"

Peak Name: "35-Dinitroanthracene" Mass(es): "192.046.0 amu"

Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

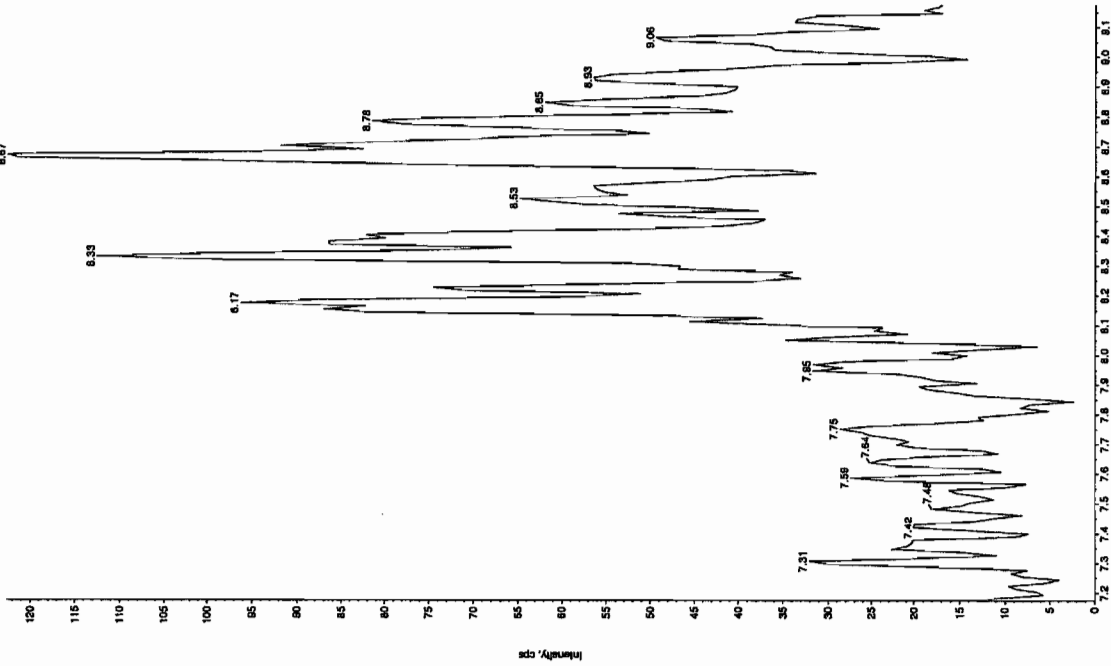
Concentration: 0.00 ng/mL

Calculated Conc: 3/16/2010

Acq. Date: 8:33:34 AM

Acq. Time: 8:33:34 AM

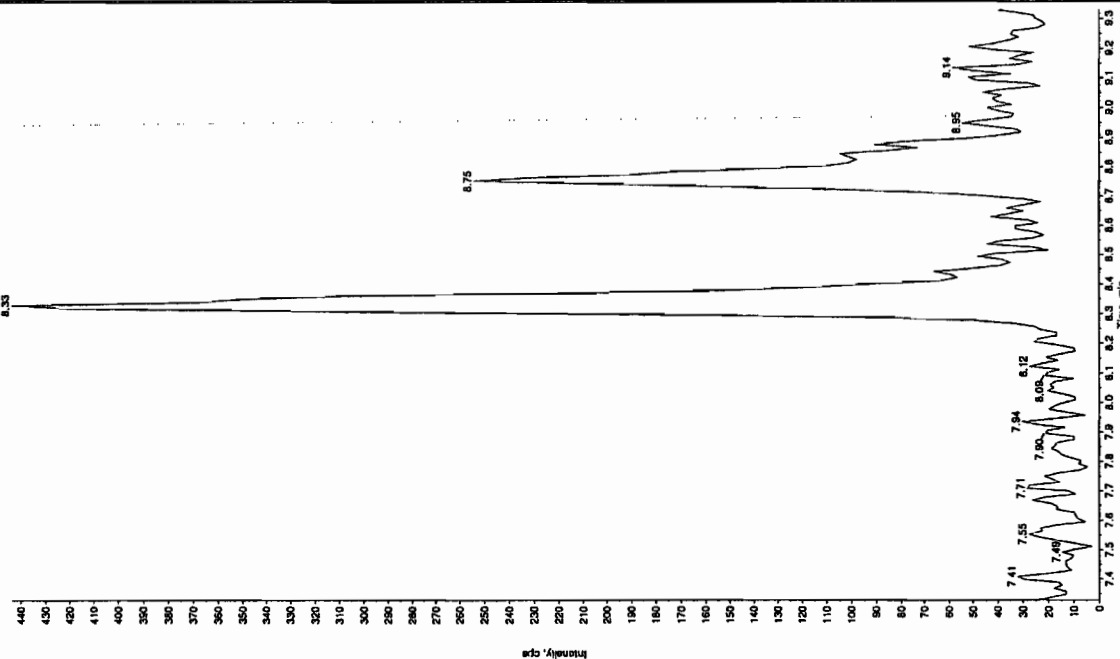
Modified: No



See 03/18/10

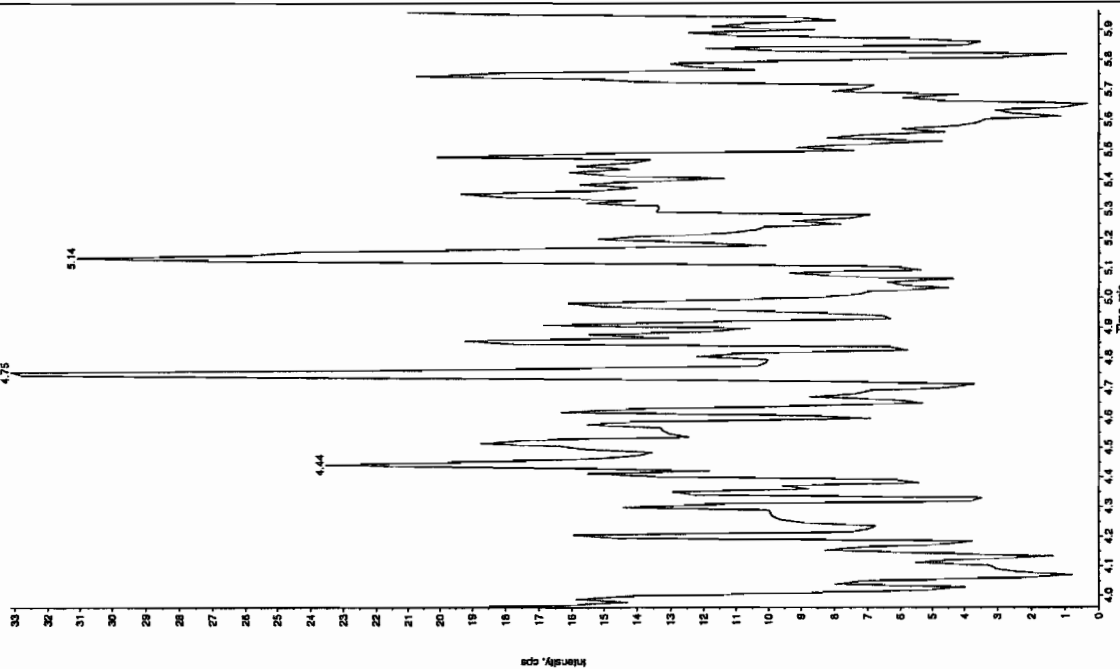
Sample Name: "XBLK01" Sample ID: "1111ER" File: "EXS03160002.will"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

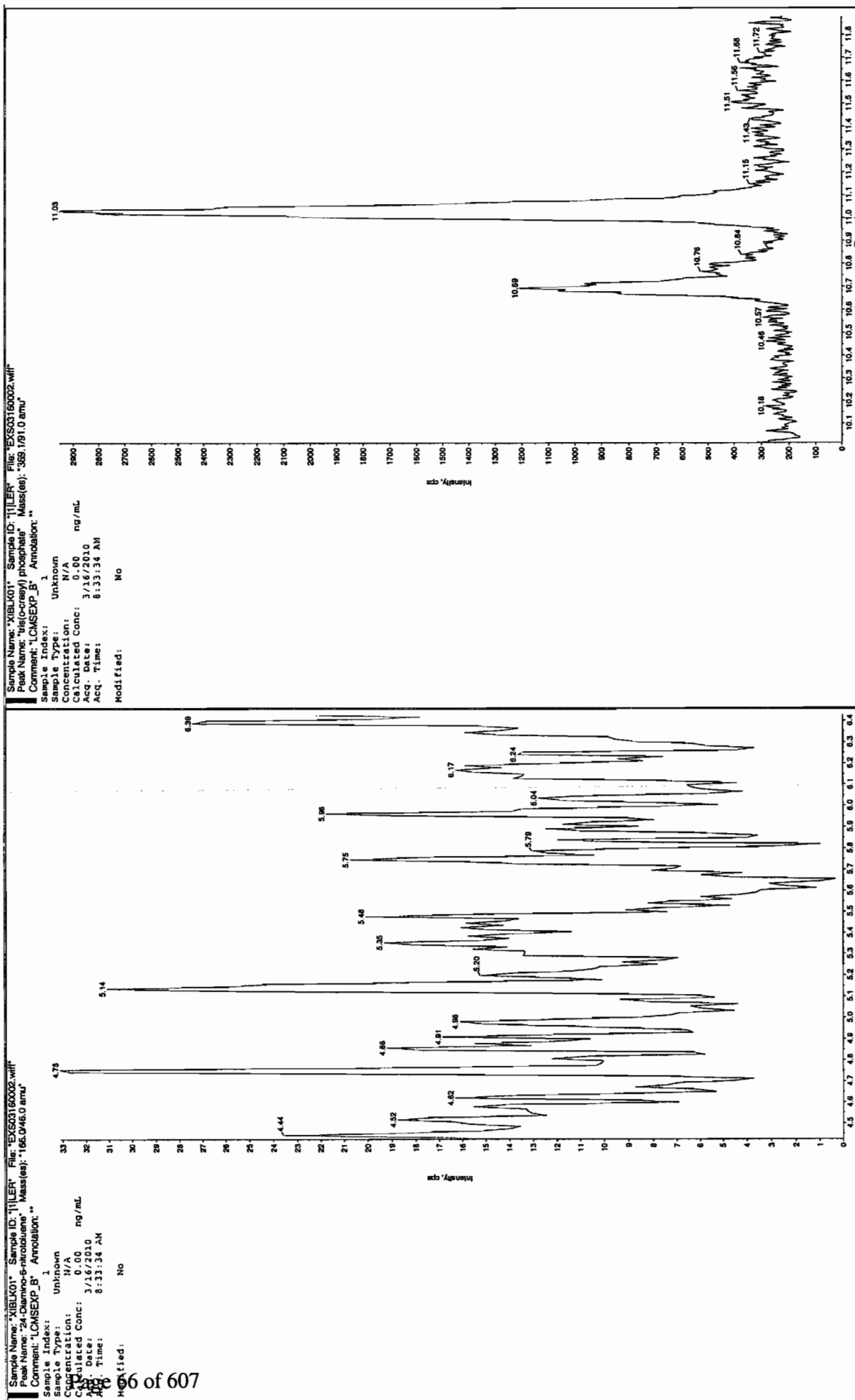
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:33:34 AM
 Modified: No



Sample Name: "XBLK01" Sample ID: "1111ER" File: "EXS03160002.will"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0/165.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 8:33:34 AM
 Modified: No





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 06:31

GEL Data File: EXS03190001.wiff

Instrument ID: LCMSMS

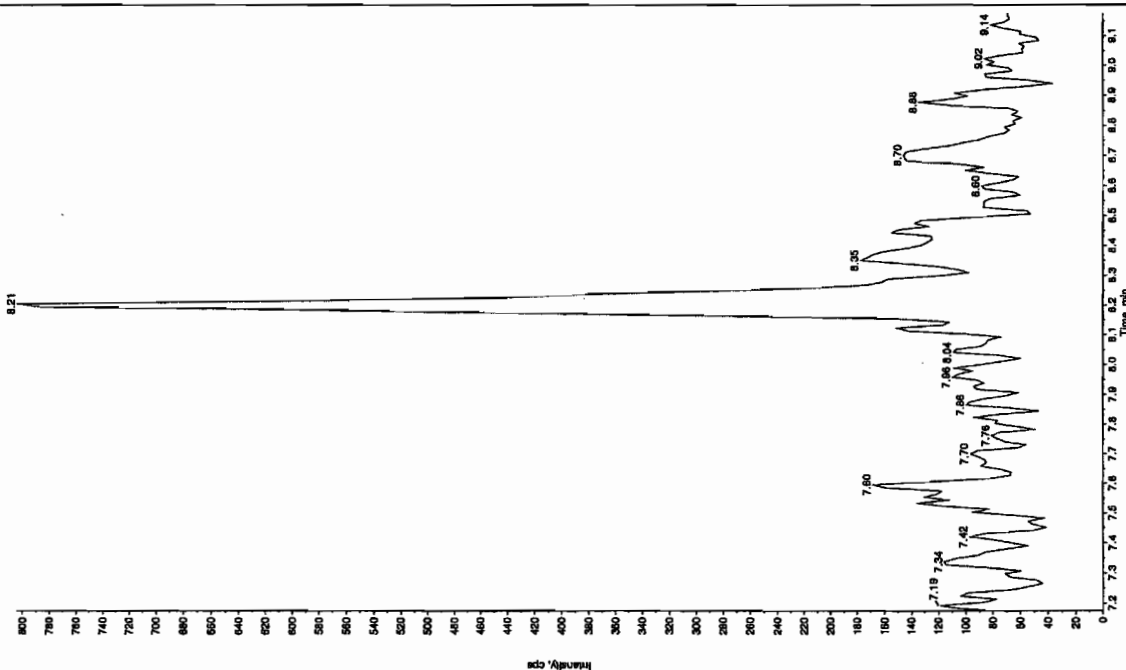
Column: Phenomenex Ultracarb 5u ODS(20)

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

See 3/23/10

Sample Name: "VIELK01" Sample ID: "VIELK01" File: "EX503190001.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

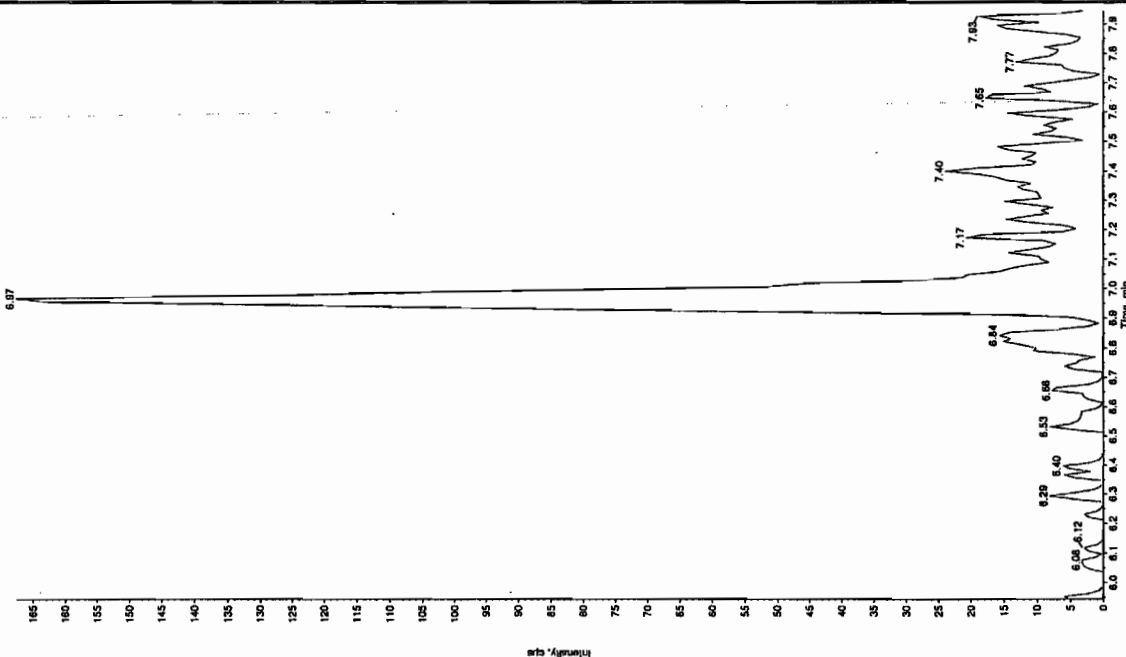
Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 6:31:16 AM
 Modified: No



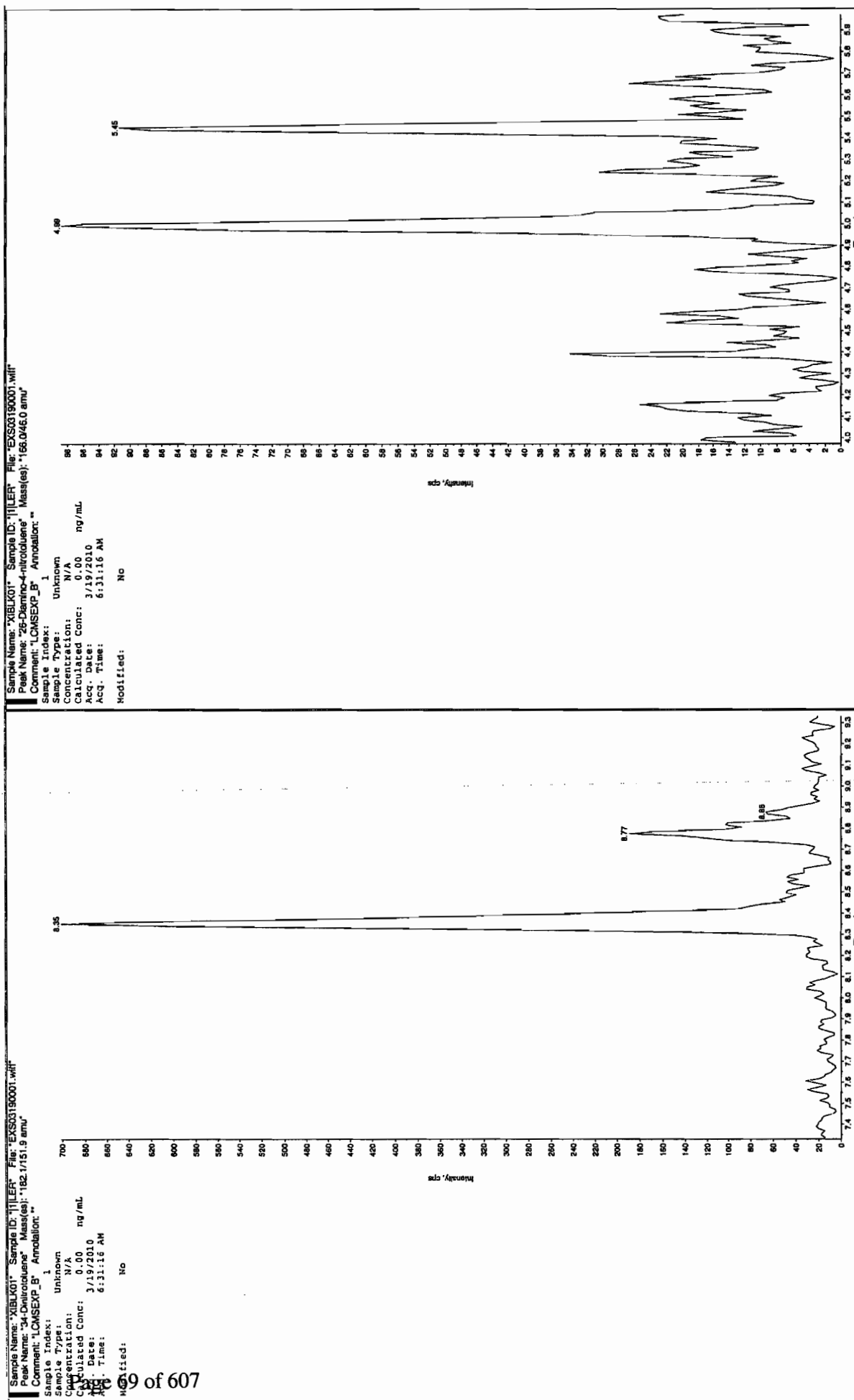
See 3/24/10

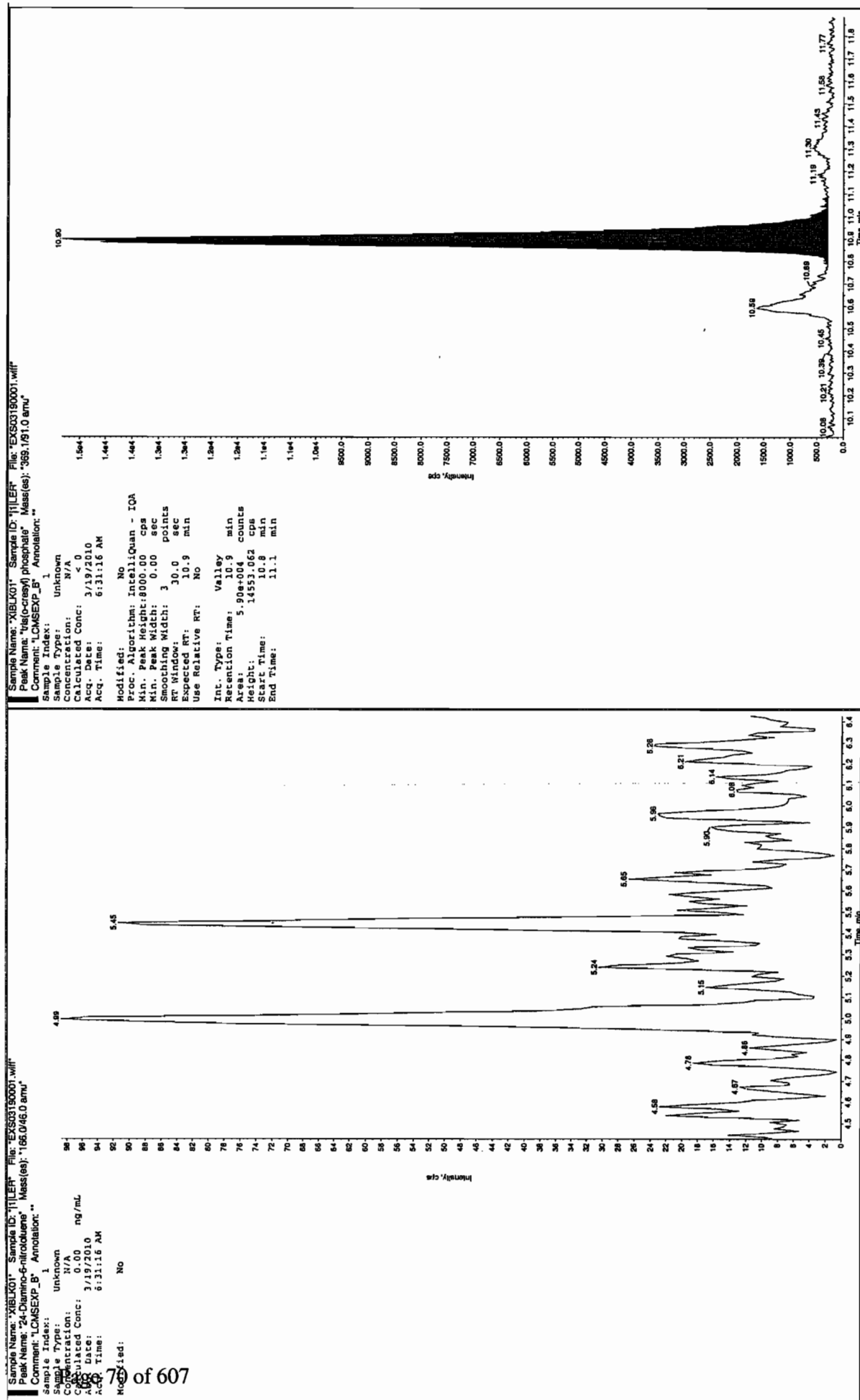
Sample Name: "VIELK01" Sample ID: "VIELK01" File: "EX503190001.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 6:31:16 AM
 Modified: No



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





Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK01

Analysis Date: 19-MAR-10 06:47

GEL Data File: EXS03190002.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

Ken 3/23/10

Sample Name: "XIBLX01" Sample ID: "11LER" File: "EX503190002.wit"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

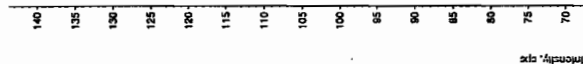
Concentration: 0.00 ng/mL

Calculated Conc: 3/19/2010

Acq. Date: 6:47:00 AM

Acq. Time: 6:47:00 AM

Modified: No



Sample Name: "XIBLX01" Sample ID: "11LER" File: "EX503190002.wit"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

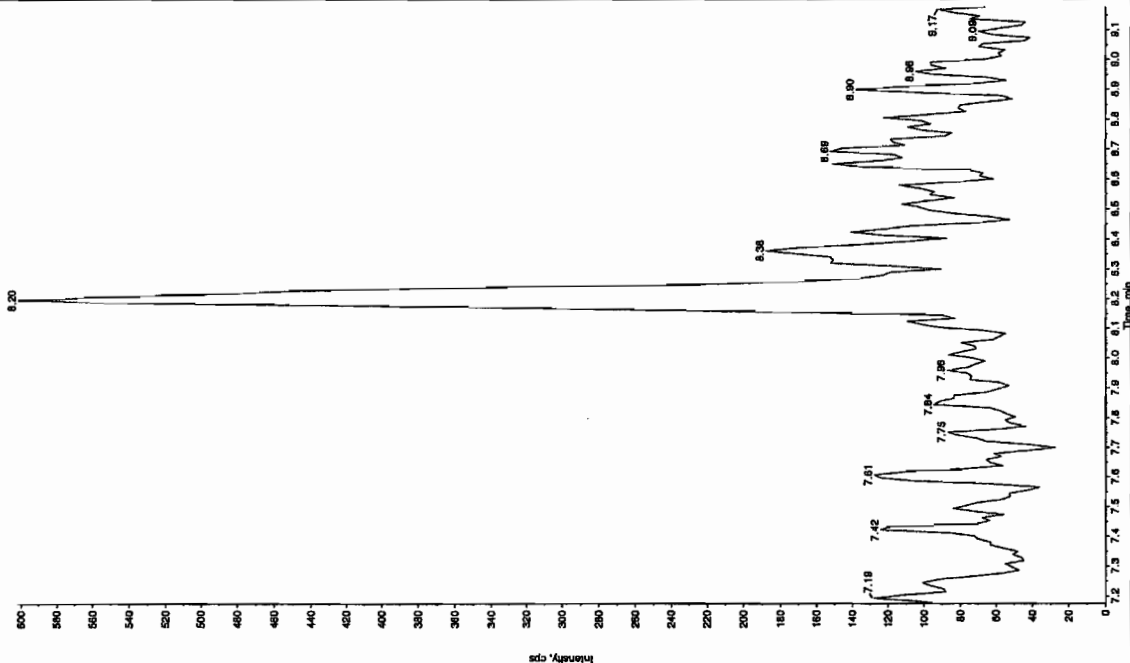
Concentration: 0.00 ng/mL

Calculated Conc: 3/19/2010

Acq. Date: 6:47:00 AM

Acq. Time: 6:47:00 AM

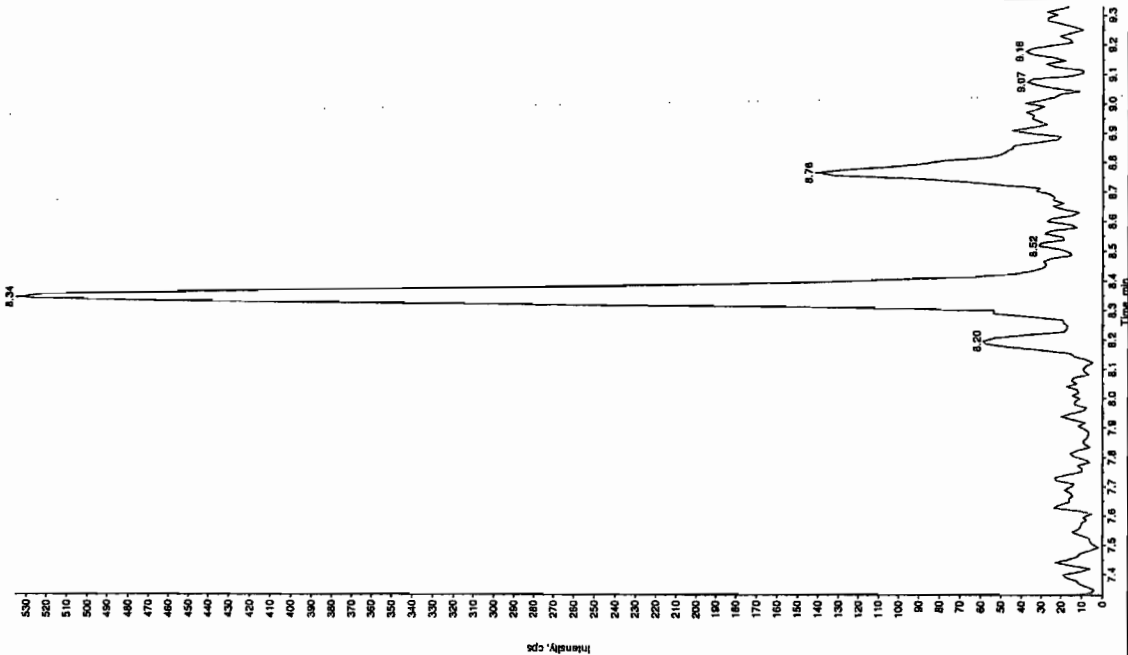
Modified: No



Ken 02/24/10

Sample Name: "XBLK01" Sample ID: "111ER" File: "EXS03190002.will"
 Peak Name: "26-Diamino-4-nitrotole" Mass(es): "165.0465.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

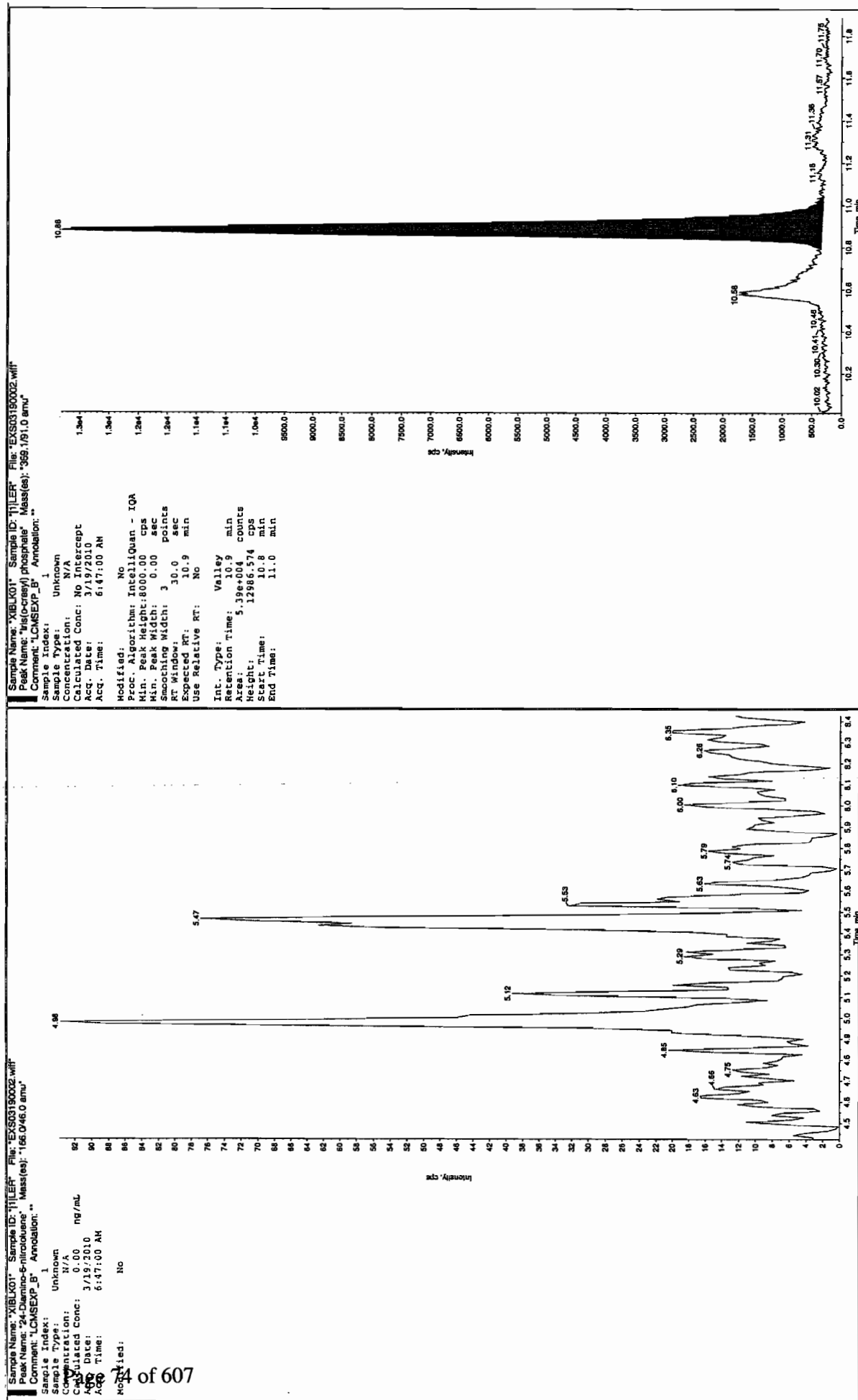
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 6:47:00 AM
 Modified: No



Sample Name: "XBLK01" Sample ID: "111ER" File: "EXS03190002.will"
 Peak Name: "34-Dinitrotole" 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: 3/19/2010
 Acq. Time: 6:47:00 AM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 19-MAR-10 20:50

GEL Data File: EXP0319009a

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	542.302
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	453.96
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\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0319009a

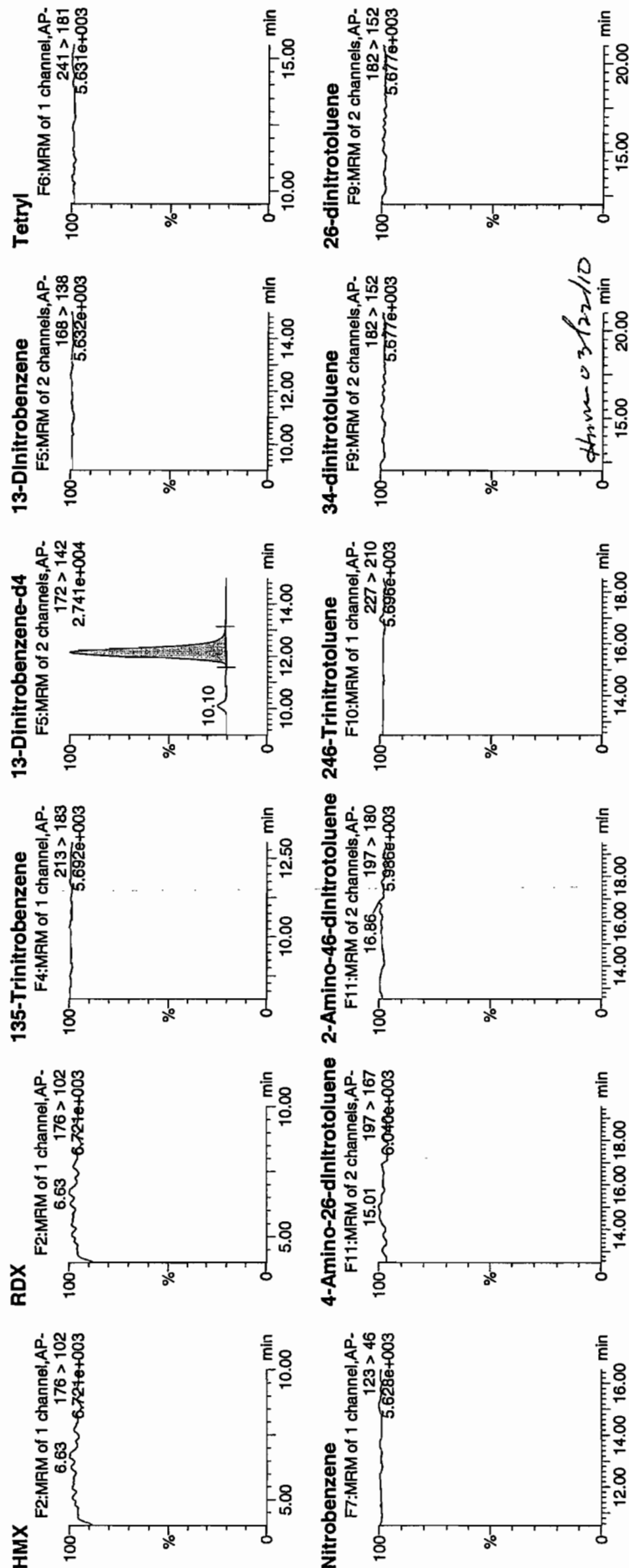
Date: 19-Mar-2010

Time: 20:50:09

Page ID: XIBLK02

Vial: 1:1,A

10/10
3/12/10

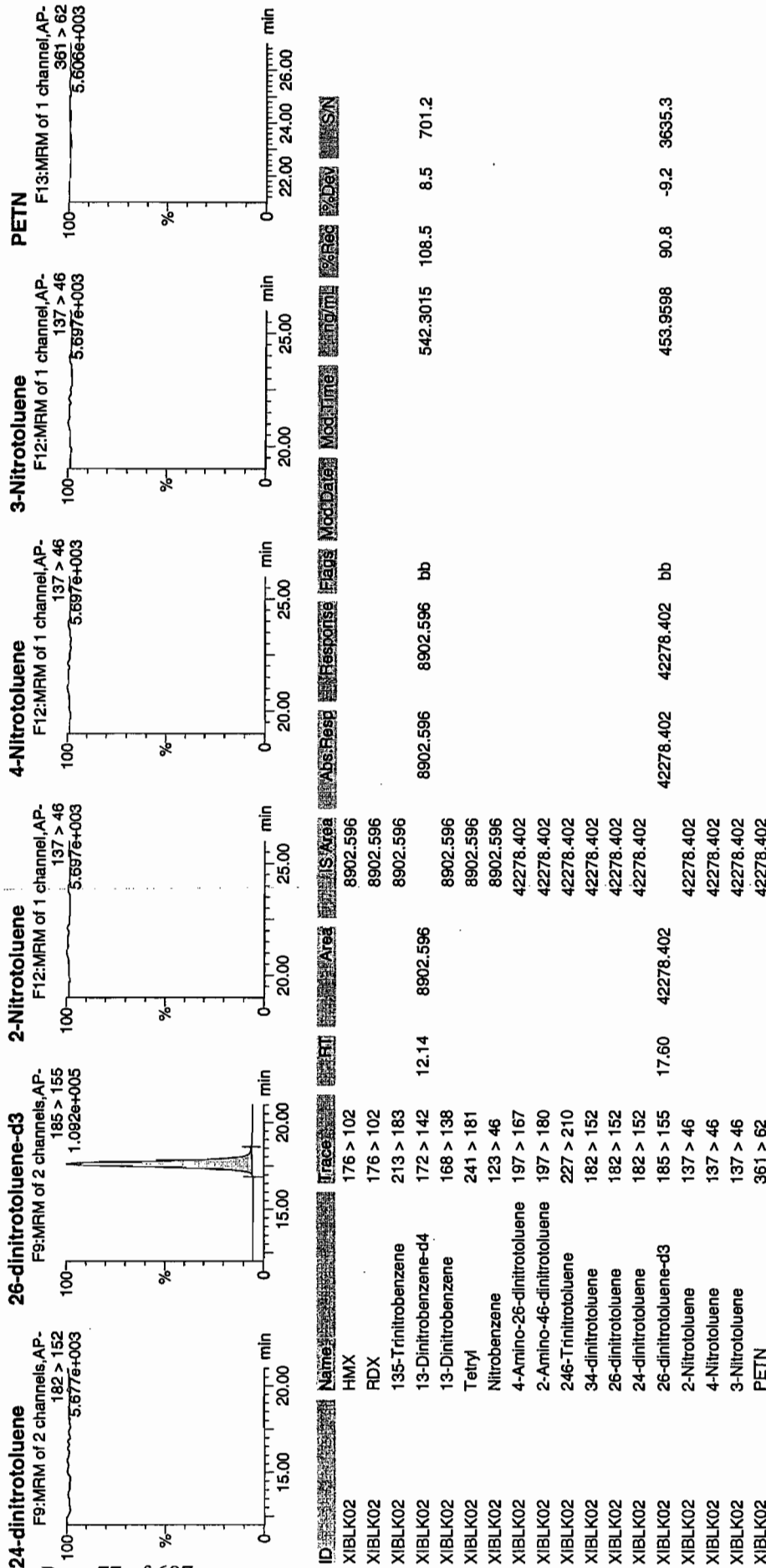


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 19-MAR-10 21:49

GEL Data File: EXP0319011a

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	436.341
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	460.101
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\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319011a

Date: 19-Mar-2010

Time: 21:49:07

ID: XIBLK03

Vial: 1:1,A

3/20/10

HMX



RDX



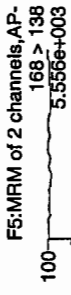
135-Trinitrobenzene



13-Dinitrobenzene-d4



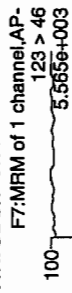
13-Dinitrobenzene



Tetryl



Nitrobenzene



4-Amino-26-dinitrotoluene



2-Amino-46-dinitrotoluene



246-Trinitrotoluene



34-dinitrotoluene



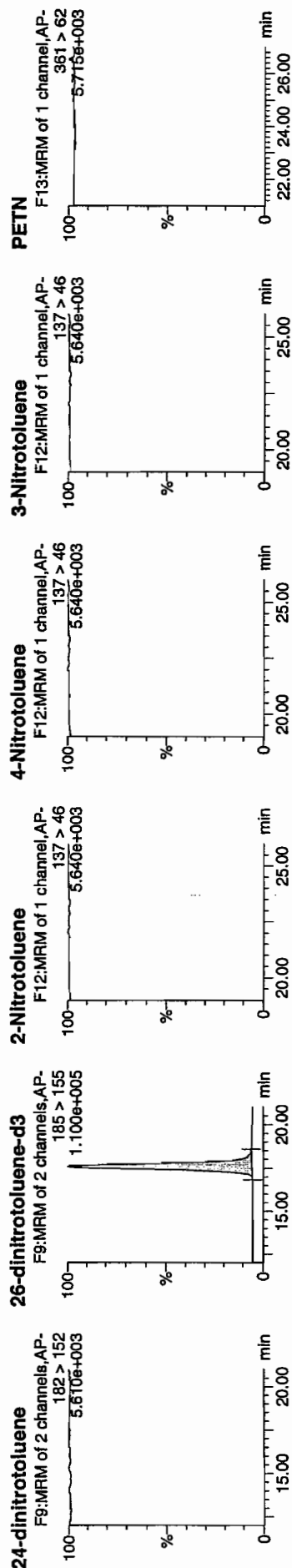
26-dinitrotoluene



Quantify Sample Report

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Dataset: C:\MASSLYN\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

[illegible]

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 20-MAR-10 03:43

GEL Data File: EXP0319023a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	405.596
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	447.464
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

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319023a

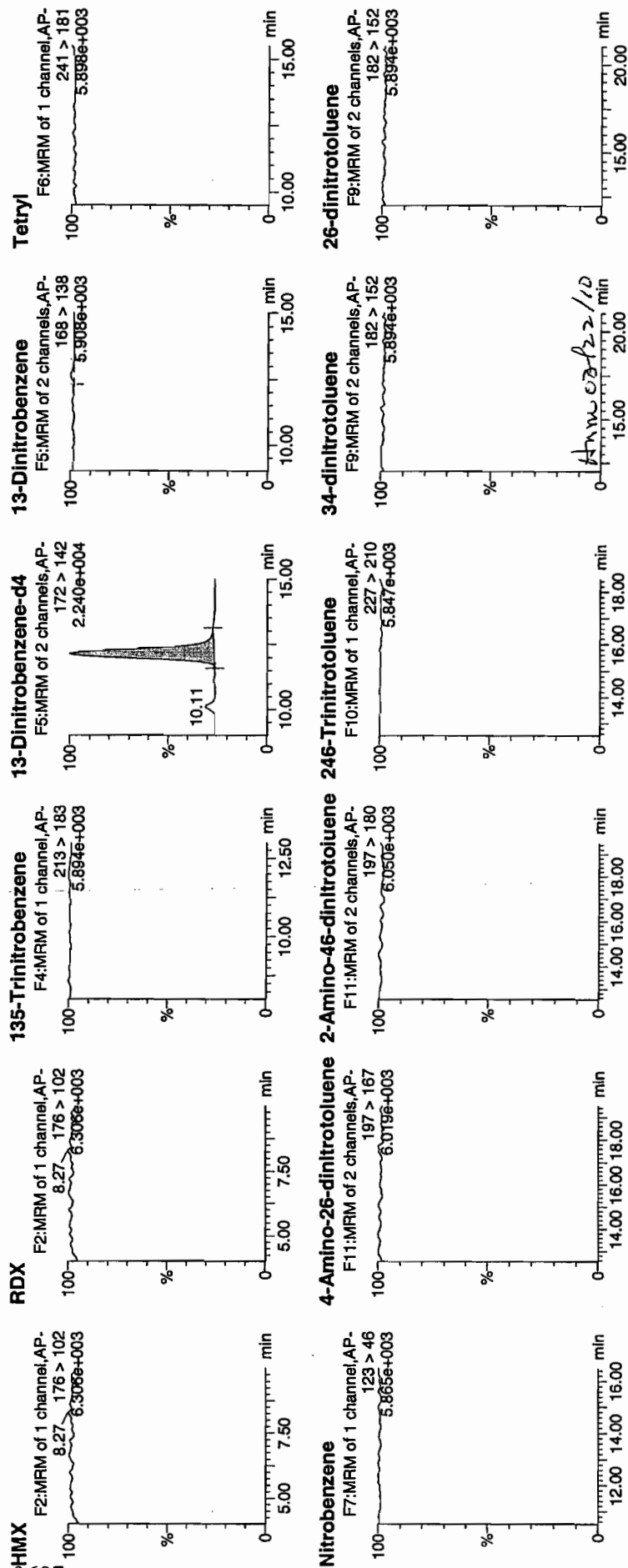
Date: 20-Mar-2010

Time: 03:43:01

ID: XIBLK04

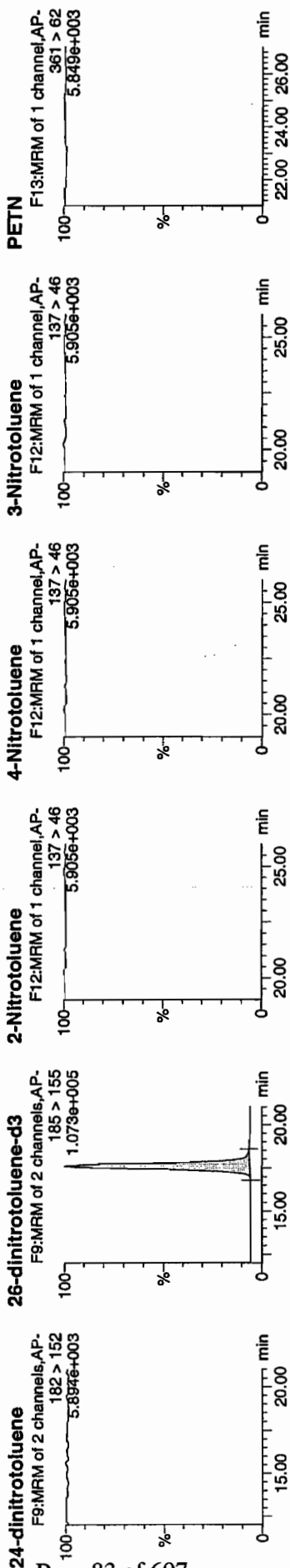
Vial: 1:1,A

3/10/10
MTP



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

Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Mod	Dev	SN
XIBLK04	HMX	176 > 102		6658.400									
XIBLK04	RDX	176 > 102		6658.400									
XIBLK04	135-Trinitrobenzene	213 > 183		6658.400									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.13	6658.400		6658.400	6658.400	bb	MM- 20-Mar-10	10:50:56	405.5963	81.1	-18.9 807.5
XIBLK04	13-Dinitrobenzene	168 > 138		6658.400									
XIBLK04	Tetryl	241 > 181		6658.400									
XIBLK04	Nitrobenzene	123 > 46		6658.400									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167		41673.398									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180		41673.398									
XIBLK04	246-Trinitrotoluene	227 > 210		41673.398									
XIBLK04	34-dinitrotoluene	182 > 152		41673.398									
XIBLK04	26-dinitrotoluene	182 > 152		41673.398									
XIBLK04	24-dinitrotoluene	182 > 152		41673.398									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.59	41673.398		41673.398	41673.398	bb			447.4636	89.5	-10.5 3483.0
XIBLK04	2-Nitrotoluene	137 > 46		41673.398									
XIBLK04	4-Nitrotoluene	137 > 46		41673.398									
XIBLK04	3-Nitrotoluene	137 > 46		41673.398									
XIBLK04	PETN	361 > 62		41673.398									

4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 20-MAR-10 05:41

GEL Data File: EXP0319027a

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	480.062
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	507.169
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

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319027a

Date: 20-Mar-2010

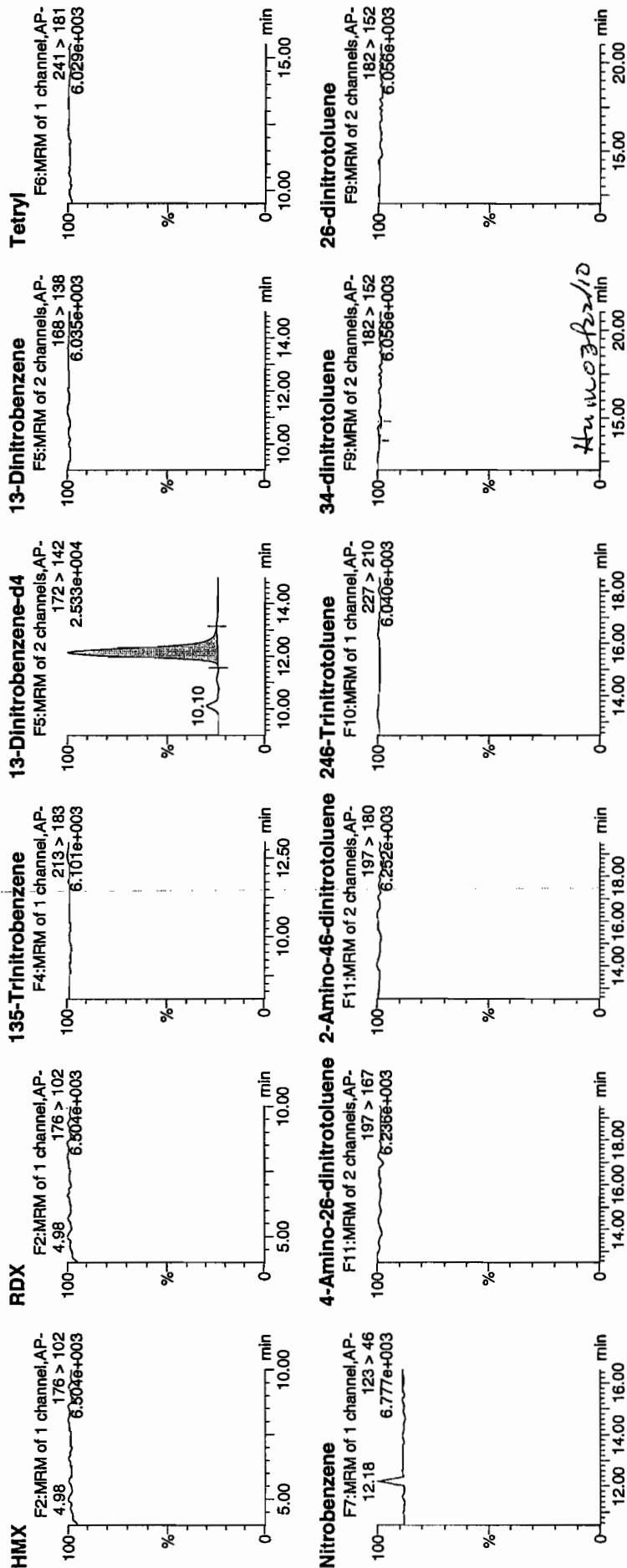
Time: 05:41:00

ID: XIBLK05

Vial: 1:1,A

3/20/10

85 of 607



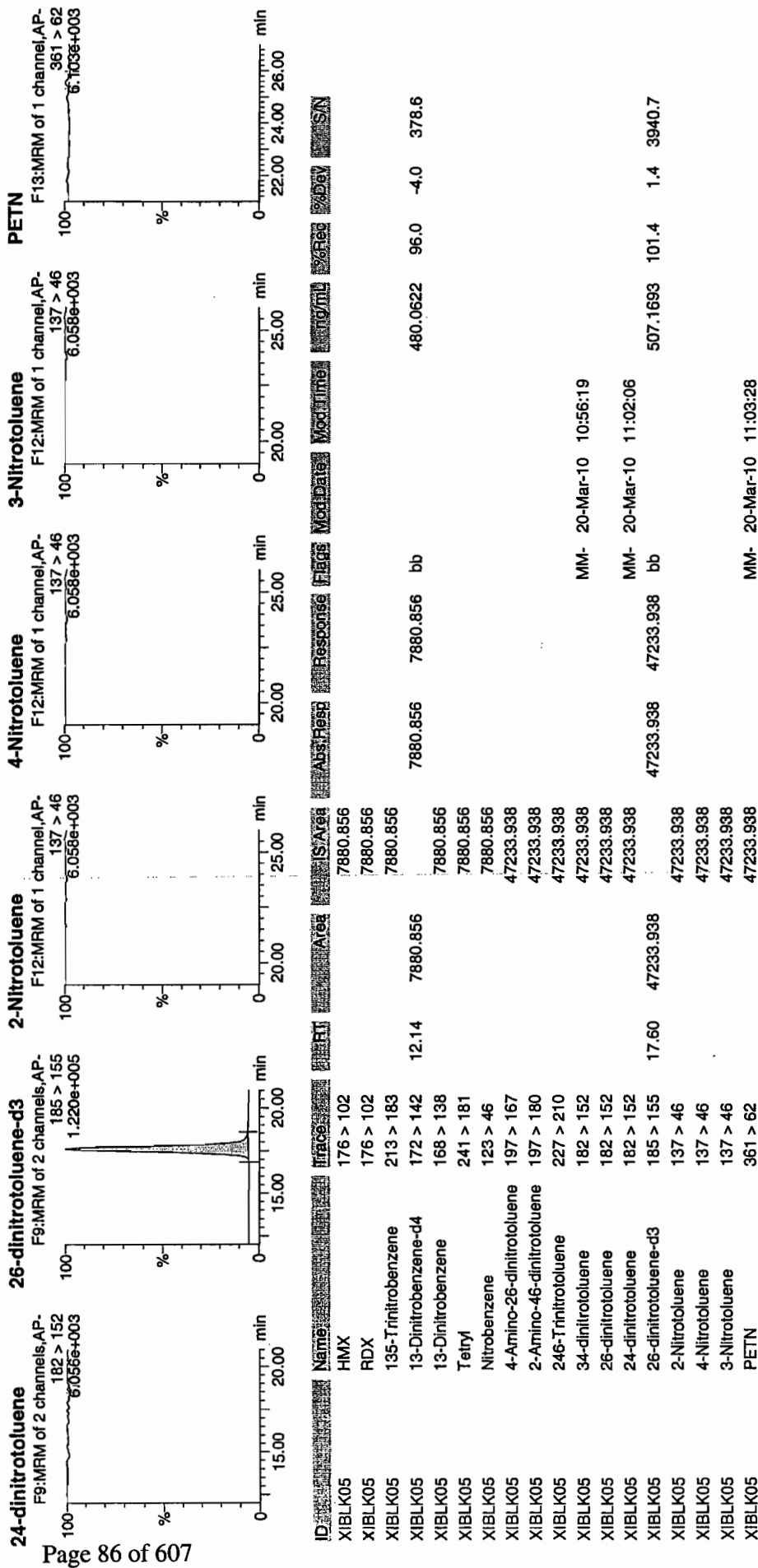
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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

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4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 20-MAR-10 09:36

GEL Data File: EXP0319035a

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	459.279
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	492.299
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319035a

Date: 20-Mar-2010

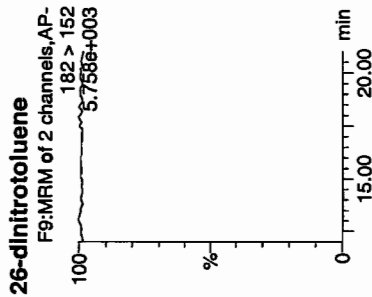
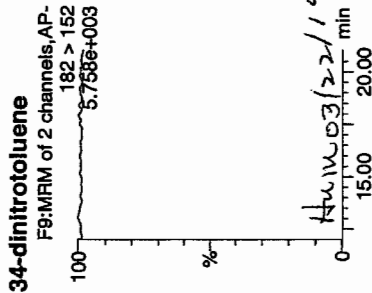
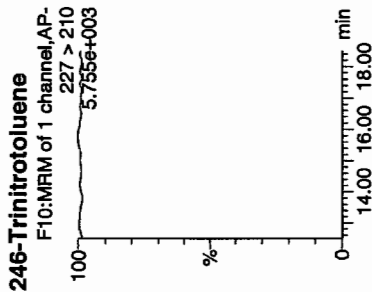
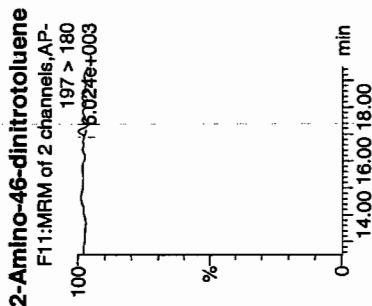
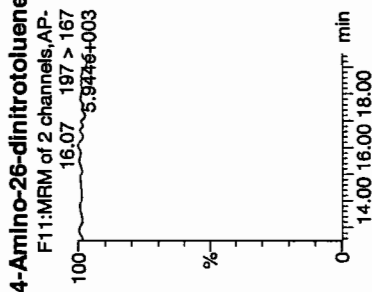
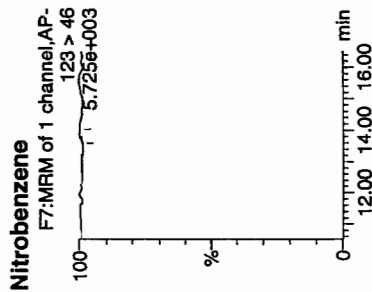
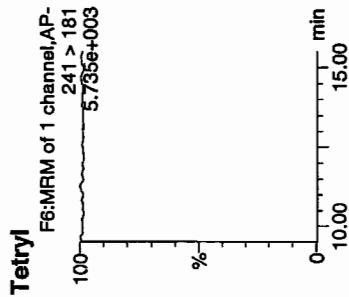
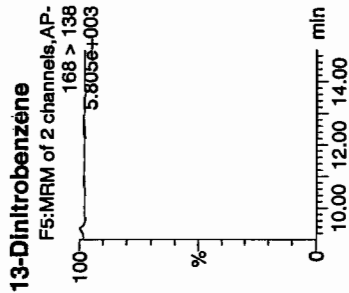
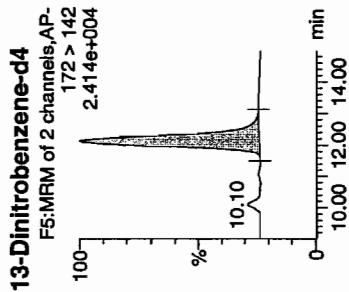
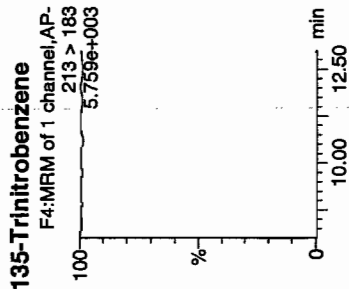
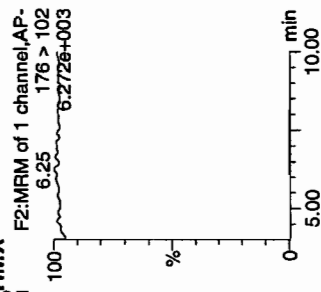
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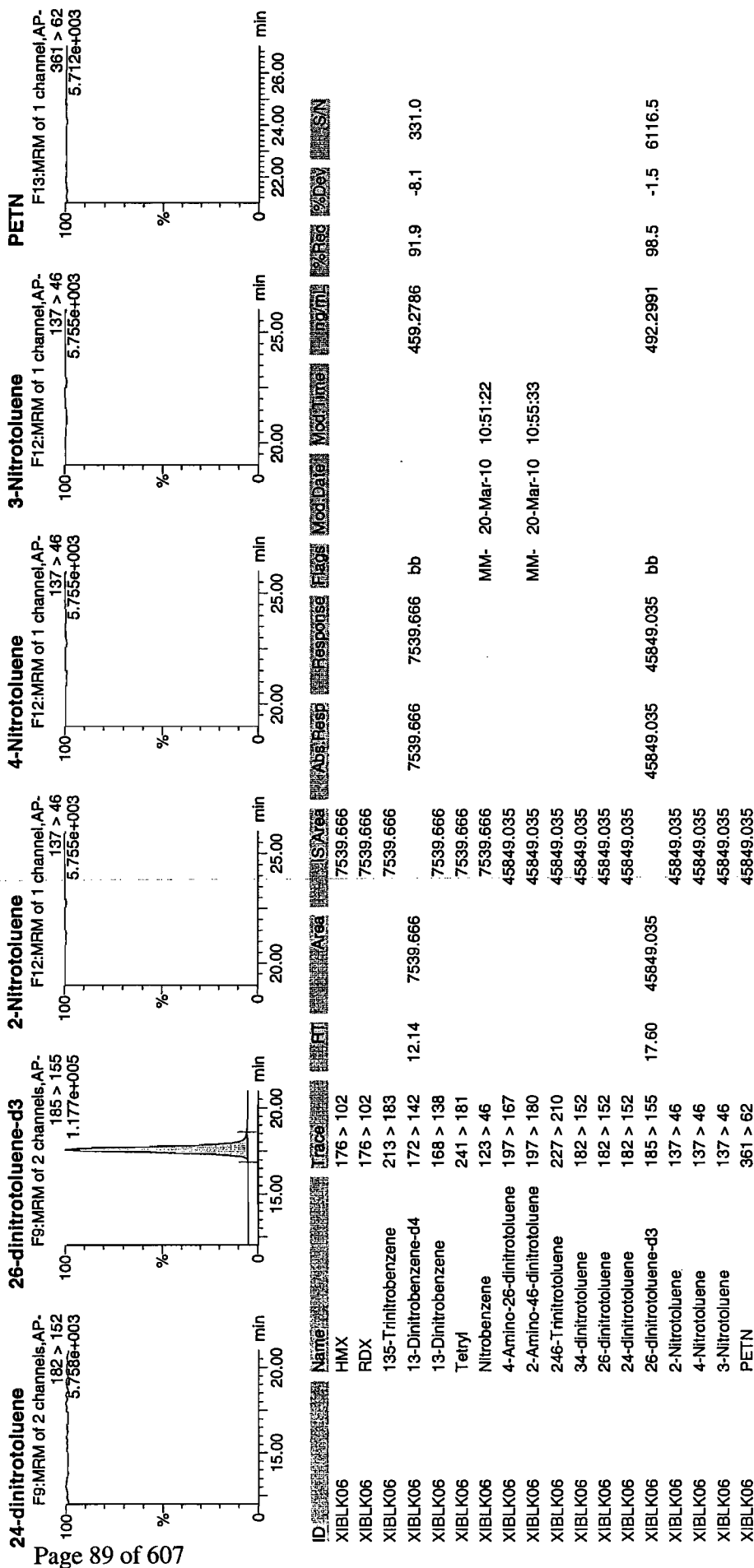
Vial: 1:1,A

WAT
3/20/10

CHMX



Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



4A
Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK07

Analysis Date: 20-MAR-10 16:00

GEL Data File: EXP0319048a

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	438.895
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	473.981
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319048a

Date: 20-Mar-2010

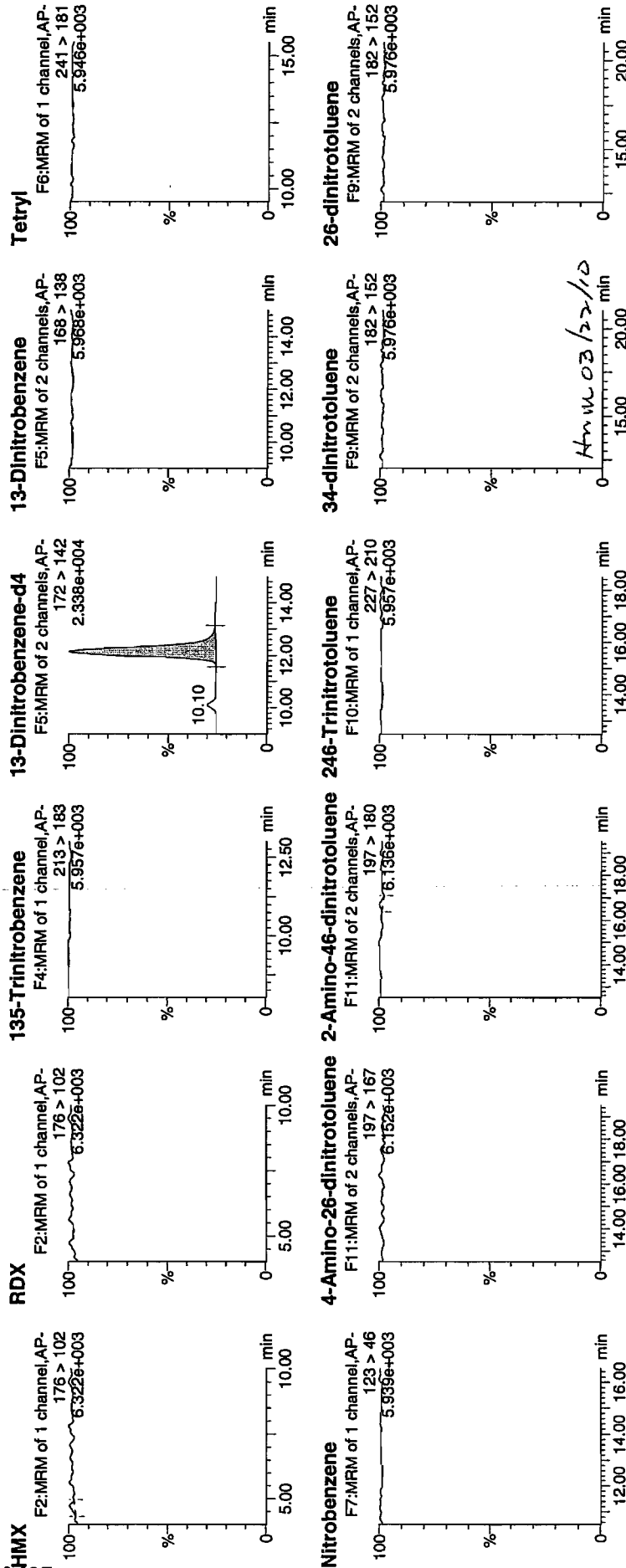
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ID: XIBLK07

Vial: 1:1,A

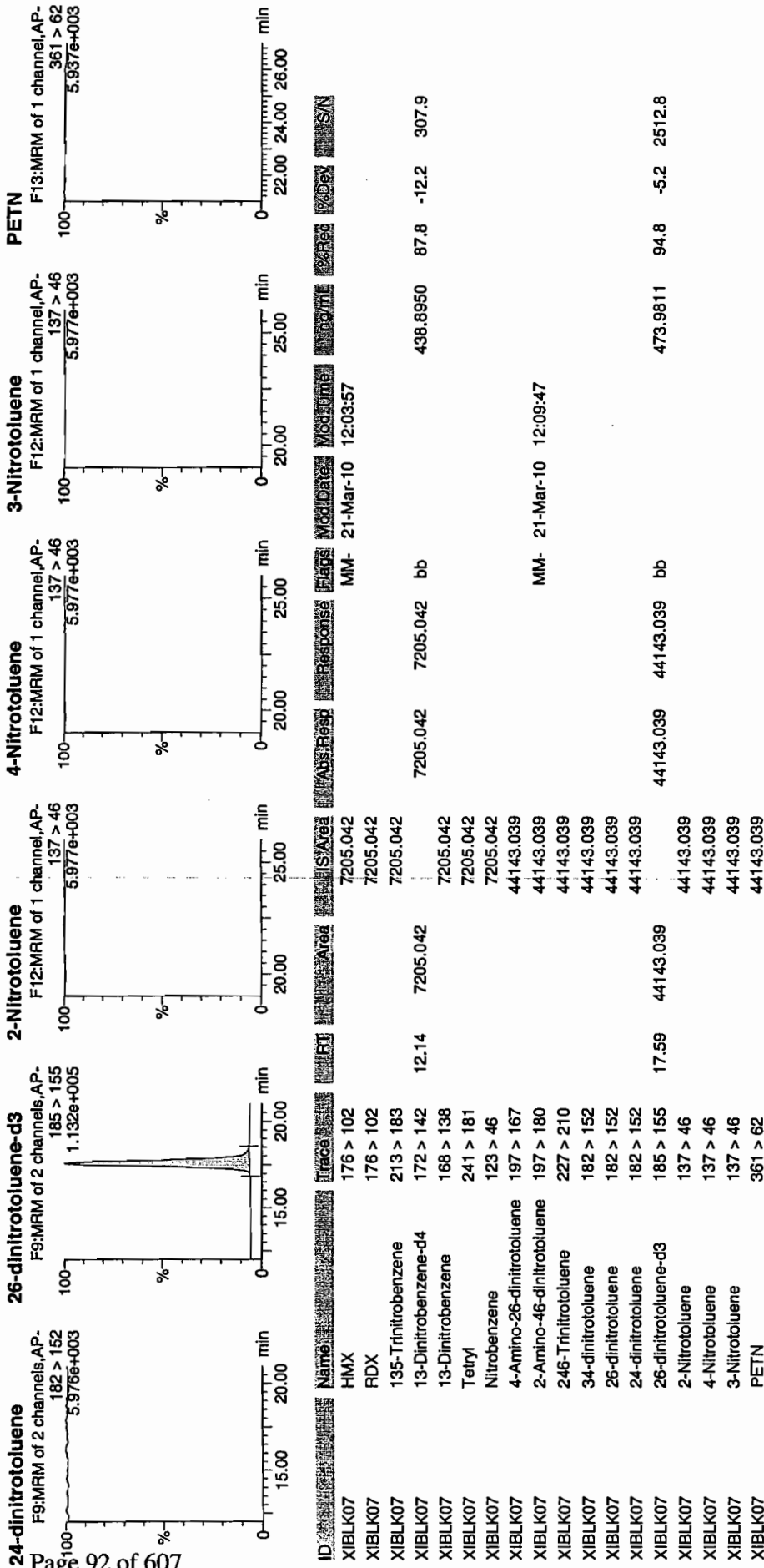
10/10
3/21/10

HM
007



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

Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK08

Analysis Date: 20-MAR-10 21:54

GEL Data File: EXP0319060a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	449.72
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	422.313
2,4,6-Trinitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319060a

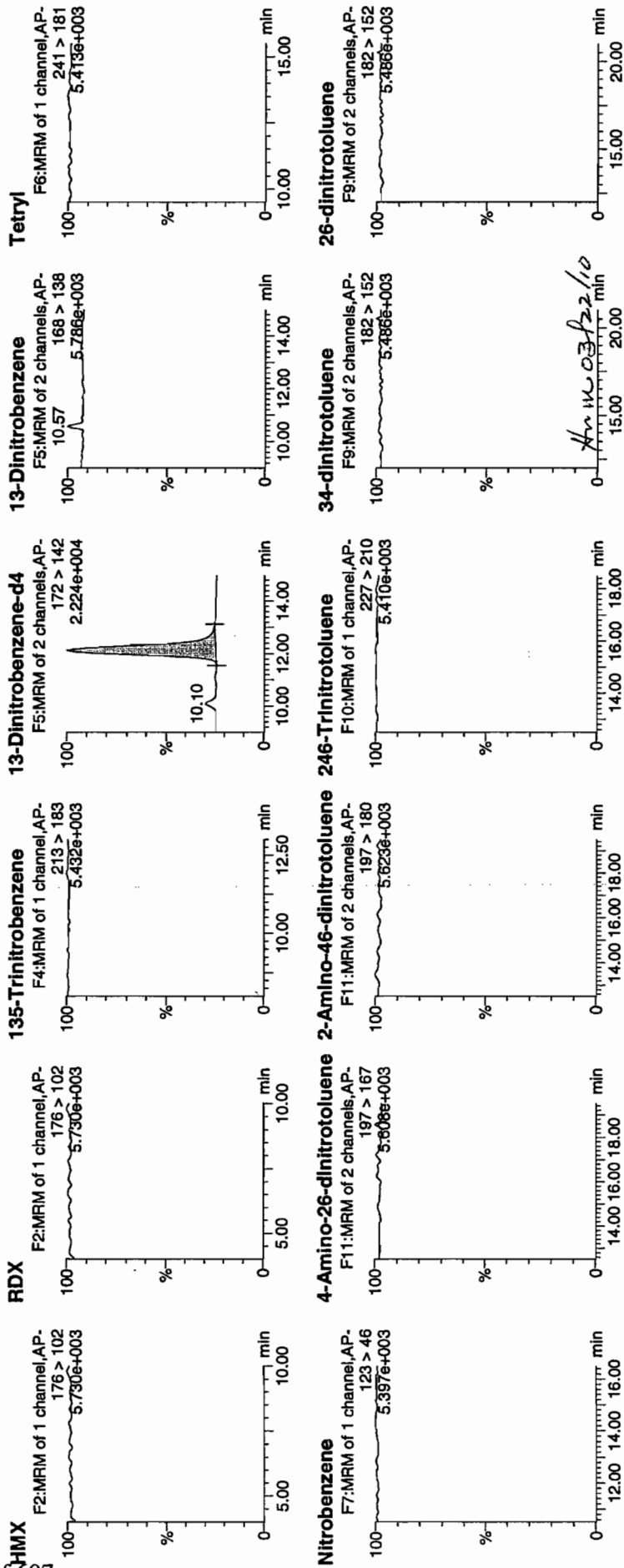
Date: 20-Mar-2010

Time: 21:54:35

ID: XIBLK08

Vial: 1:1,A

3/24/10

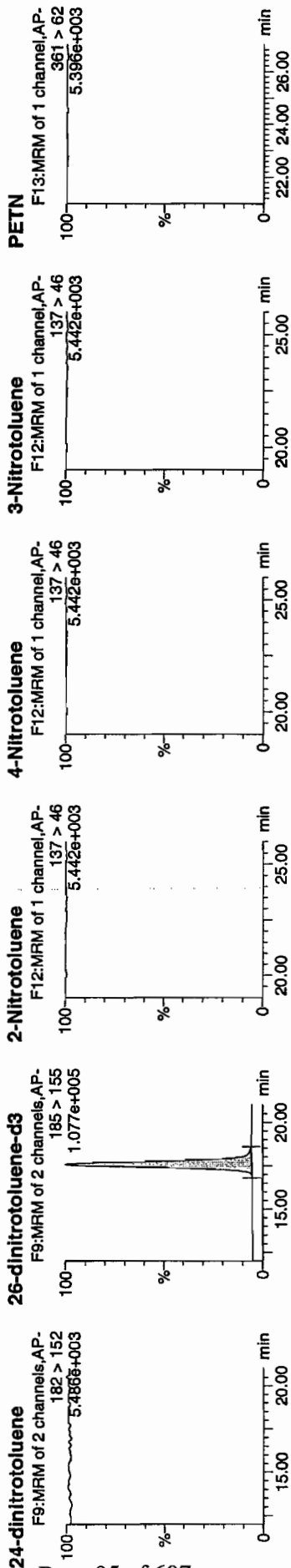


Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



ID	Name	Trace	Area	IS Area	Abs Resp	Response	Mod Date	Mod Time	Mod By	SN
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XIBLK08	RDX	176 > 102		6932.825						
XIBLK08	135-Trinitrobenzene	213 > 183		6932.825						
XIBLK08	13-Dinitrobenzene-d4	172 > 142	12.14	6932.825		6932.825	bb	422.3129	84.5	-15.5
XIBLK08	13-Dinitrobenzene	168 > 138		6932.825						
XIBLK08	Tetryl	241 > 181		6932.825						
XIBLK08	Nitrobenzene	123 > 46		6932.825						
XIBLK08	4-Amino-26-dinitrotoluene	197 > 167		41883.582						
XIBLK08	2-Amino-46-dinitrotoluene	197 > 180		41883.582						
XIBLK08	246-Trinitrotoluene	227 > 210		41883.582						
XIBLK08	34-dinitrotoluene	182 > 152		41883.582						
XIBLK08	26-dinitrotoluene	182 > 152		41883.582						
XIBLK08	24-dinitrotoluene	182 > 152		41883.582						
XIBLK08	26-dinitrotoluene-d3	185 > 155	17.59	41883.582		41883.582	bb	449.7204	89.9	-10.1
XIBLK08	2-Nitrotoluene	137 > 46		41883.582						
XIBLK08	4-Nitrotoluene	137 > 46		41883.582						
XIBLK08	3-Nitrotoluene	137 > 46		41883.582						
XIBLK08	PETN	361 > 62		41883.582						

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK09

Analysis Date: 21-MAR-10 04:18

GEL Data File: EXP0319073a

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	355.114
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	397.53
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 73 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319073a

Date: 21-Mar-2010

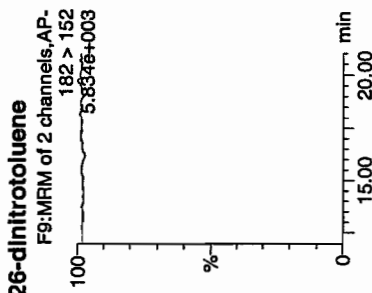
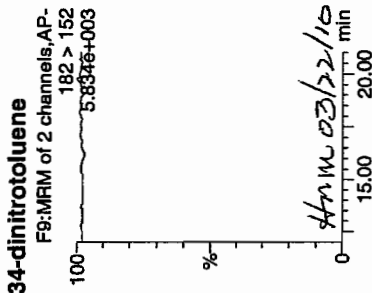
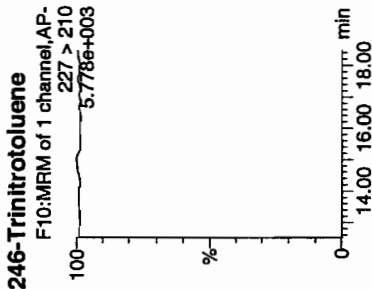
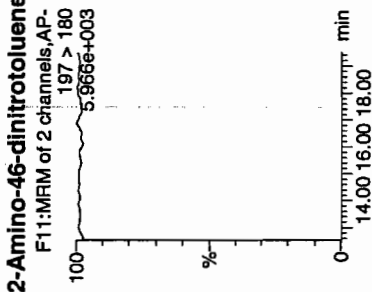
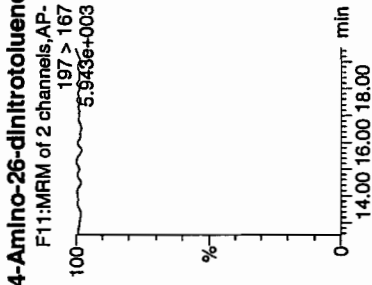
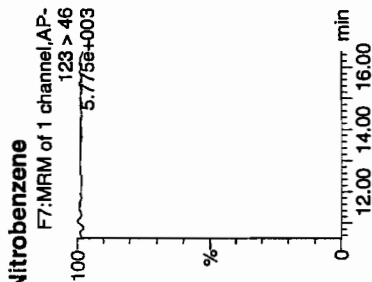
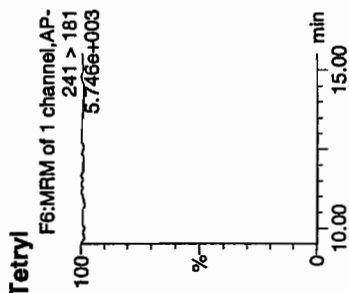
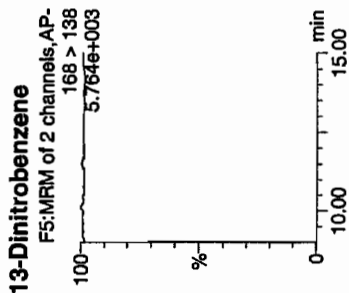
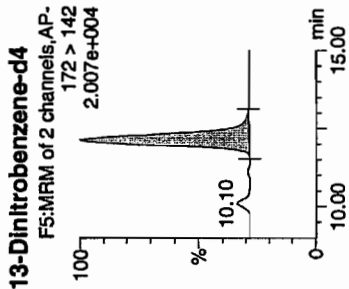
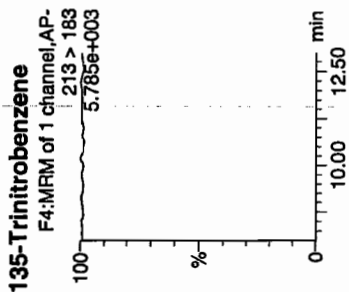
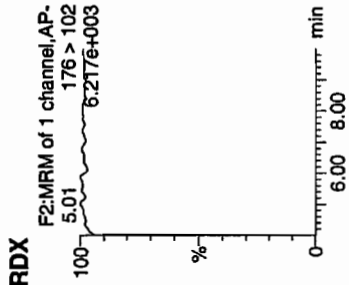
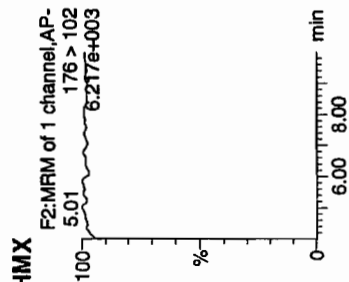
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ID: XIBLK09

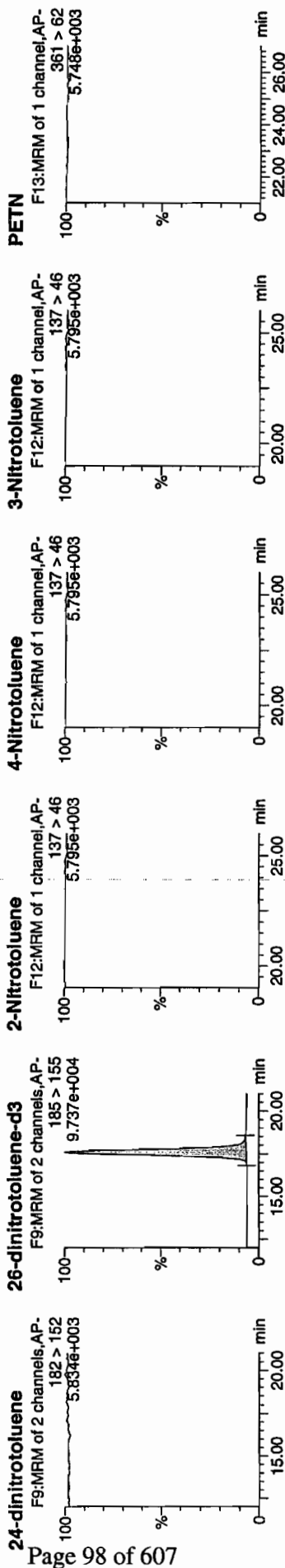
Vial: 1:1,A

10/11
3/21/10

007



Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int/mL	% Rec	% Dev	S/N
XIBLK09	HMX	176 > 102				5829.666								
XIBLK09	RDX	176 > 102				5829.666								
XIBLK09	135-Trinitrobenzene	213 > 183				5829.666								
XIBLK09	13-Dinitrobenzene-d4	172 > 142	12.13	5829.666			5829.666	bb			355.1140	71.0	-29.0	197.0
XIBLK09	13-Dinitrobenzene	168 > 138				5829.666								
XIBLK09	Tetryl	241 > 181				5829.666								
XIBLK09	Nitrobenzene	123 > 46				5829.666								
XIBLK09	4-Amino-26-dinitrotoluene	197 > 167				37023.000								
XIBLK09	2-Amino-46-dinitrotoluene	197 > 180				37023.000								
XIBLK09	246-Trinitrotoluene	227 > 210				37023.000								
XIBLK09	34-dinitrotoluene	182 > 152				37023.000								
XIBLK09	26-dinitrotoluene	182 > 152				37023.000								
XIBLK09	24-dinitrotoluene	182 > 152				37023.000								
XIBLK09	26-dinitrotoluene-d3	185 > 155	17.59	37023.000			37023.000	bb			397.5305	79.5	-20.5	2956.3
XIBLK09	2-Nitrotoluene	137 > 46				37023.000								
XIBLK09	4-Nitrotoluene	137 > 46				37023.000								
XIBLK09	3-Nitrotoluene	137 > 46				37023.000								
XIBLK09	PETN	361 > 62				37023.000								

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK10

Analysis Date: 21-MAR-10 10:41

GEL Data File: EXP0319086a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
p-Nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	373.757
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	416.685
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

Name: C:\MASSLYNX\NEW_EXP.PRO\data\EXP0319086a

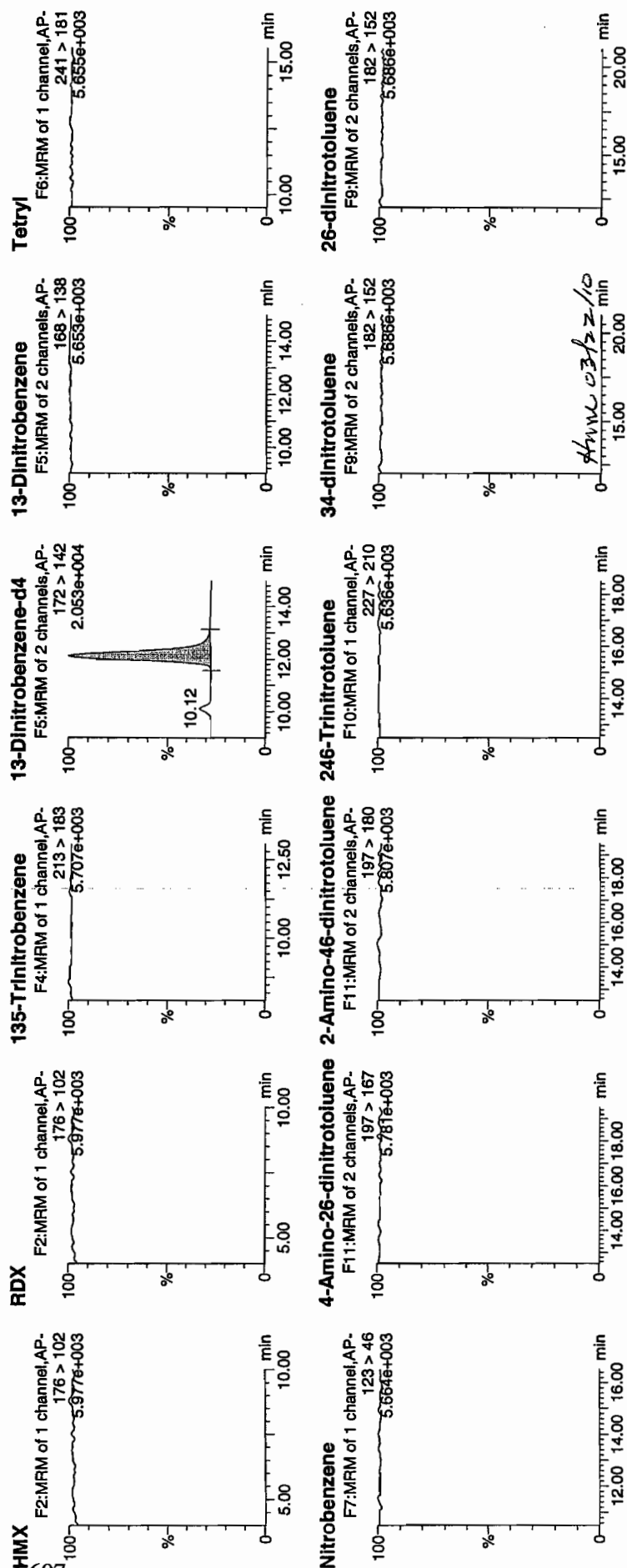
Date: 21-Mar-2010

Time: 10:41:49

ID: XIBLK10

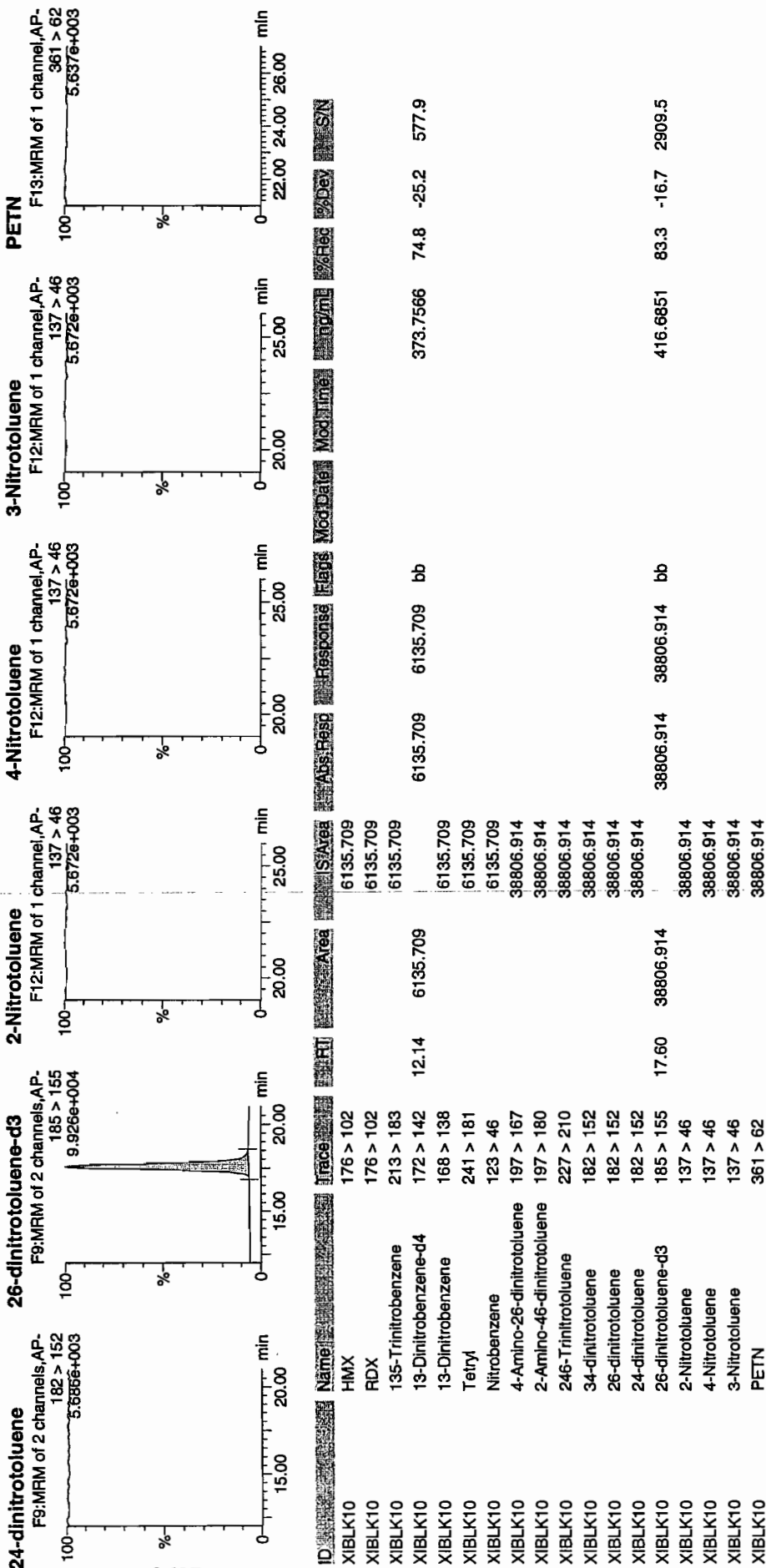
Vial: 1:1,A

3/21/10



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

Dataset: C:\MASSLYNX\New_Exp\PRO1031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 23-MAR-10 13:04

GEL Data File: EXP0323009a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	400.005
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	359.09
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Printed: Wed Mar 24 09:32:17 2010, Page 17 of 99

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323009a

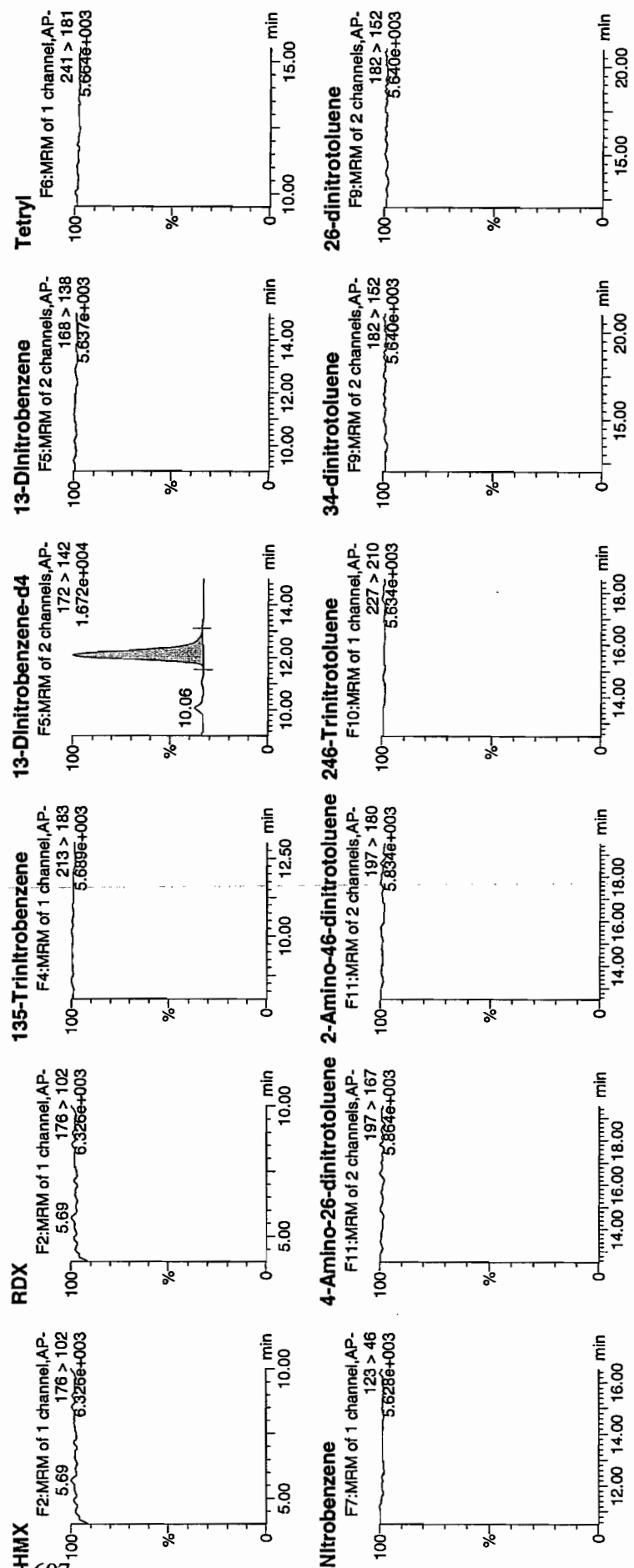
Date: 23-Mar-2010

Time: 13:04:52

ID: XIBLK02

Vial: 1:1,A

MT
3/24/10



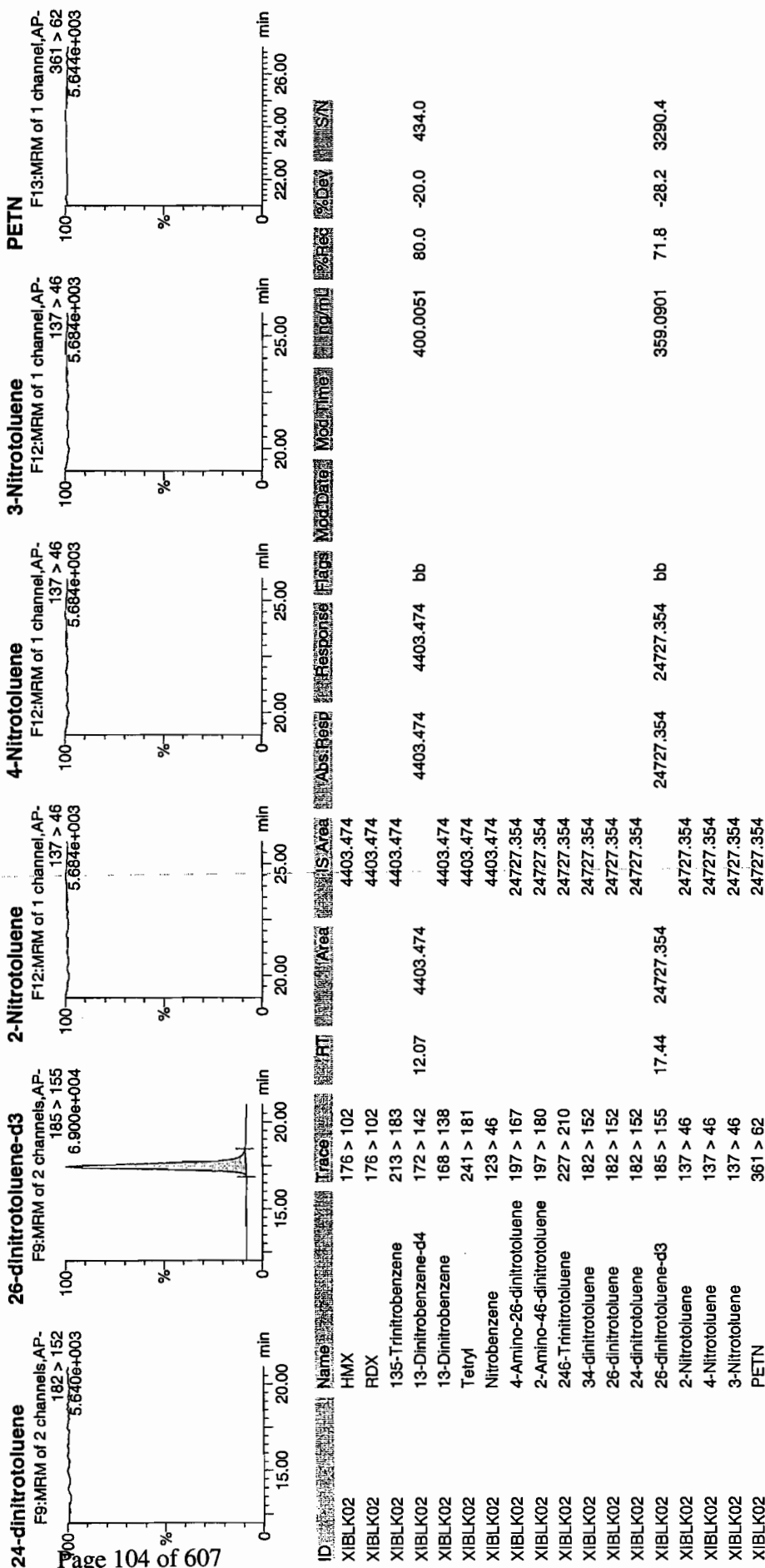
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Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 18 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 23-MAR-10 14:03

GEL Data File: EXP0323011a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	505.262
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	469.688
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0323011a

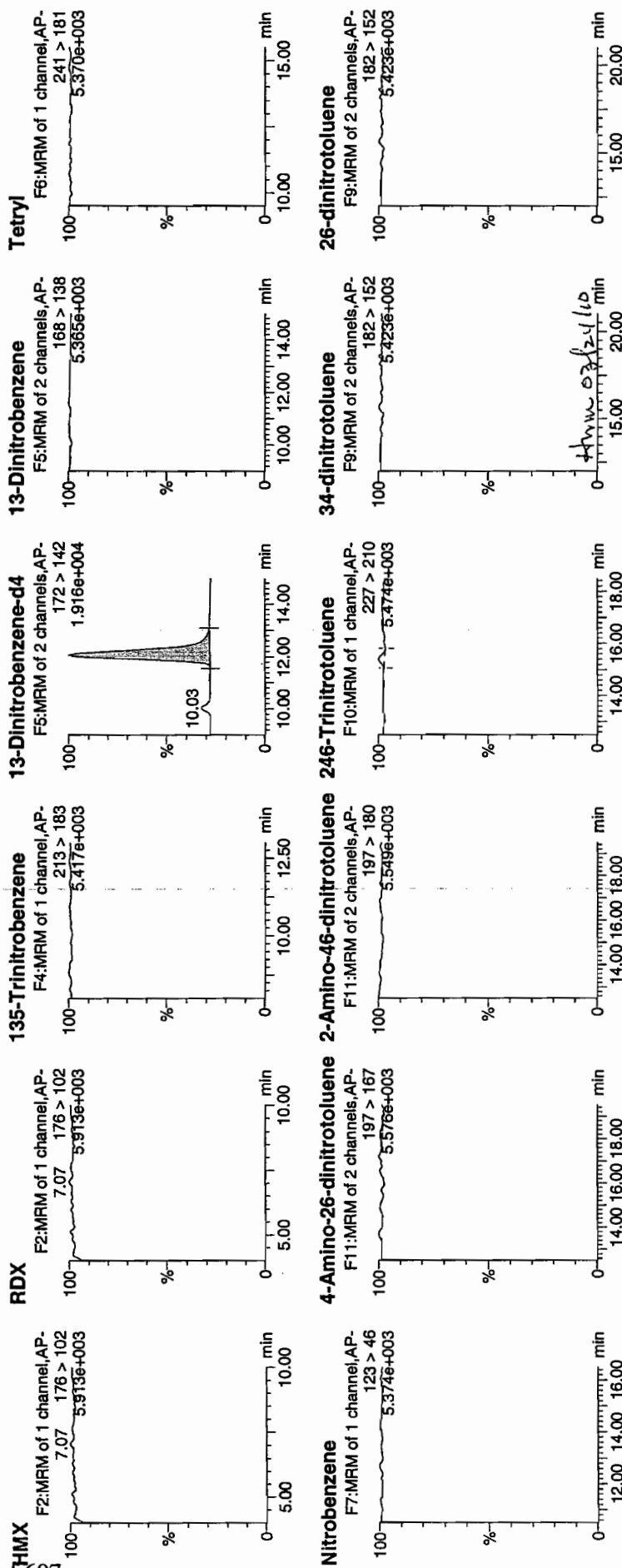
Date: 23-Mar-2010

Time: 14:03:49

ID: XIBLK03

Vial: 1:1,A

MDT
3/24/10

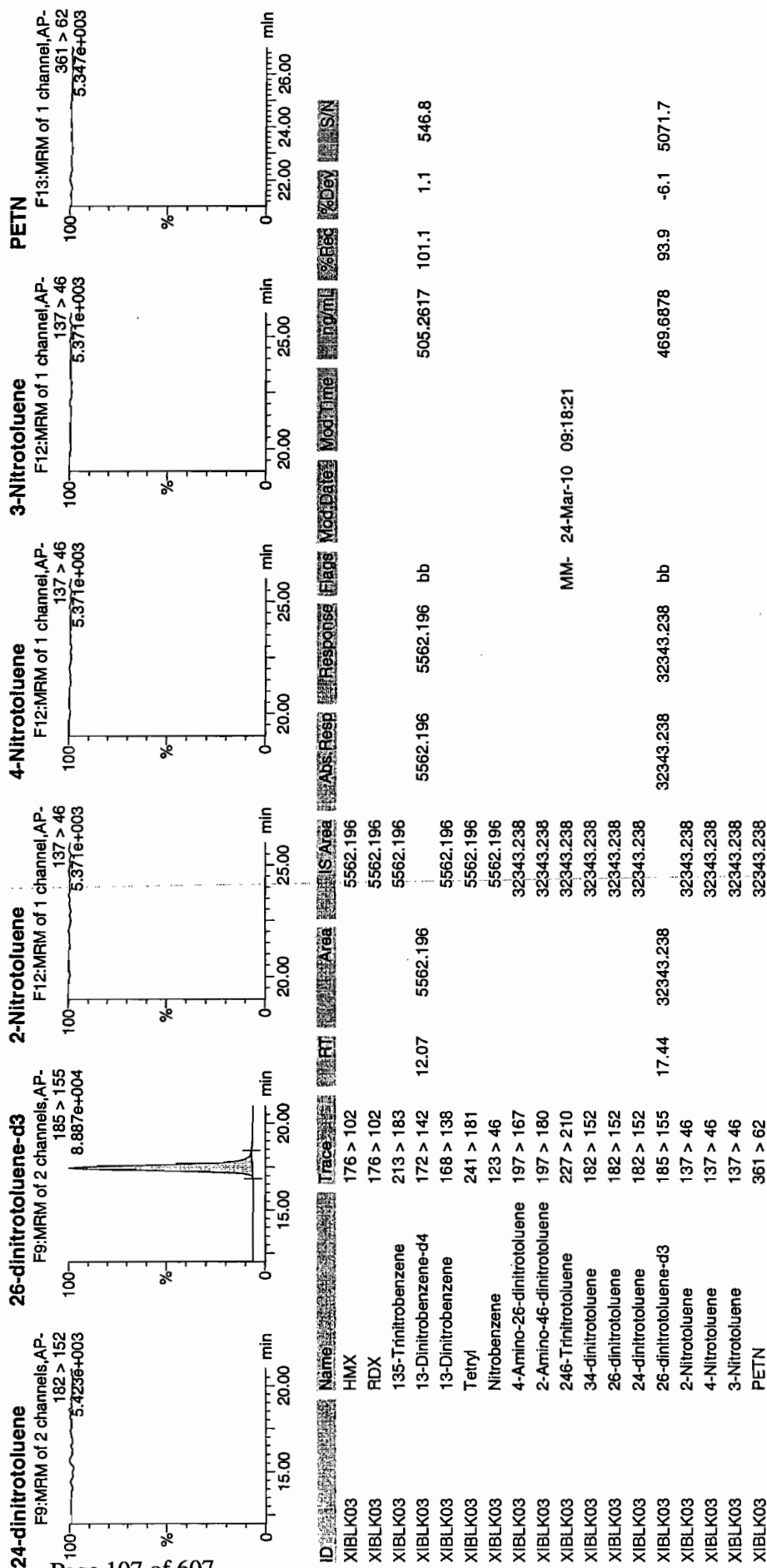


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 22 of 99

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 23-MAR-10 20:27

GEL Data File: EXP0323024a

Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	562.021
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	528.426
2-Amino-4,6-dinitrotoluene	0	0
4-Amino-2,6-dinitrotoluene	0	0
HMX	0	0
Nitrobenzene	0	0
PETN	0	0
RDX	0	0
Tetryl	0	0
m-Dinitrobenzene	0	0
m-Nitrotoluene	0	0
o-Nitrotoluene	0	0
p-Nitrotoluene	0	0

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 47 of 99

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323024a

Date: 23-Mar-2010

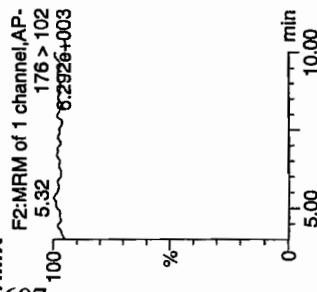
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ID: XIBLK04

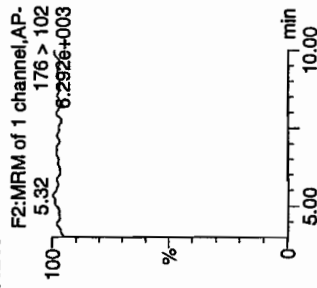
Vial: 1:1,A

WAT
3/24/10

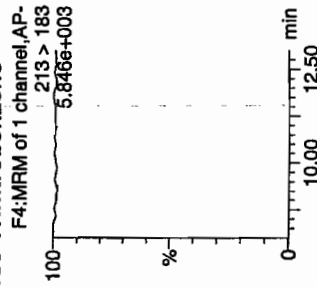
HMx



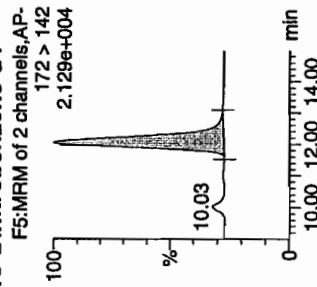
RDX



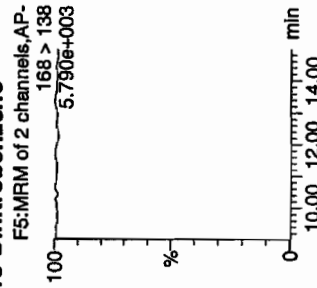
135-Trinitrobenzene



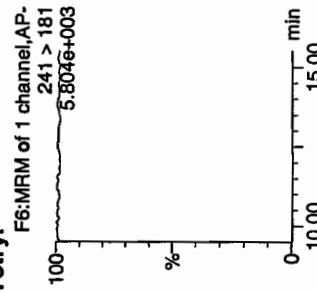
13-Dinitrobenzene-d4



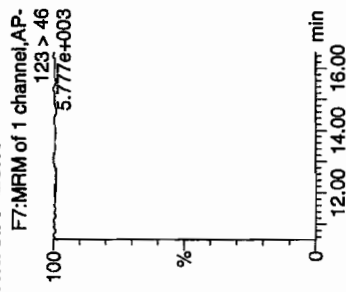
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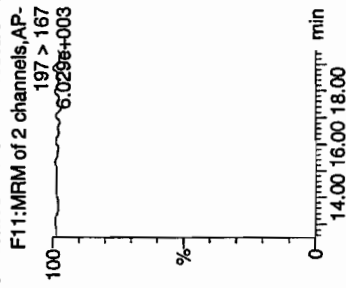
Tetryl



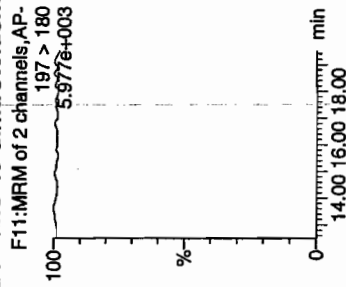
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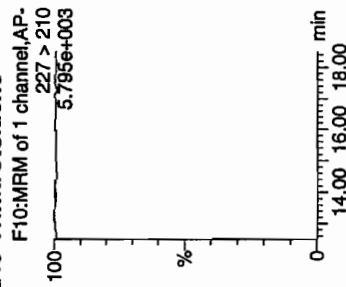
4-Amino-26-dinitrotoluene



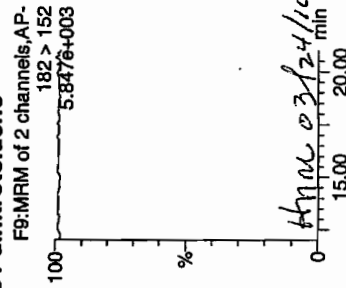
2-Amino-46-dinitrotoluene



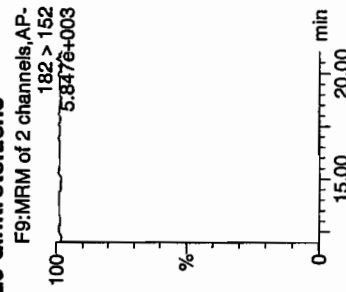
246-Trinitrotoluene



34-dinitrotoluene

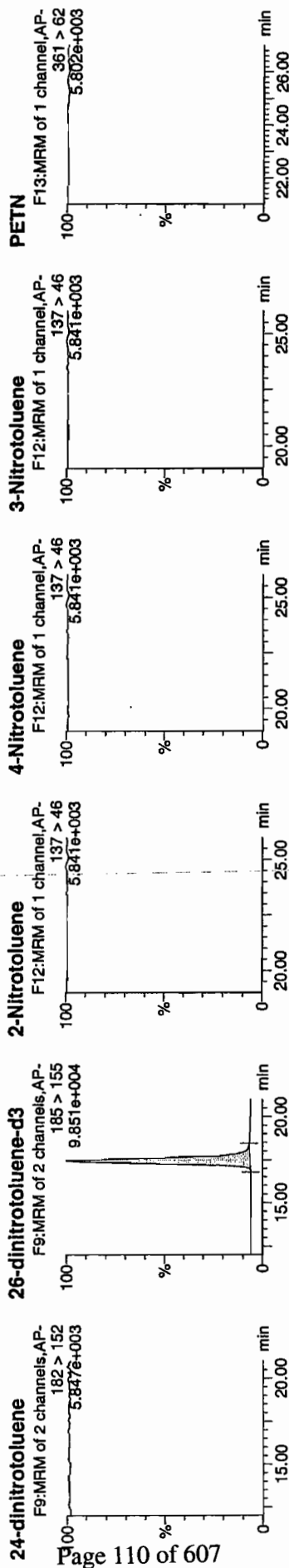


26-dinitrotoluene



Anal. 03/24/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	nd/m	%Rec	%Dev	S/N
XIBLK04	HMX	176 > 102			6187.030									
XIBLK04	RDX	176 > 102			6187.030									
XIBLK04	135-Trinitrobenzene	213 > 183			6187.030									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	12.07	6187.030		6187.030	6187.030	bb			562.0207	112.4	12.4	852.7
XIBLK04	13-Dinitrobenzene	168 > 138			6187.030									
XIBLK04	Tetryl	241 > 181			6187.030									
XIBLK04	Nitrobenzene	123 > 46			6187.030									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			36388.039									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			36388.039									
XIBLK04	246-Trinitrotoluene	227 > 210			36388.039									
XIBLK04	34-dinitrotoluene	182 > 152			36388.039									
XIBLK04	26-dinitrotoluene	182 > 152			36388.039									
XIBLK04	24-dinitrotoluene	182 > 152			36388.039									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.42	36388.039		36388.039	36388.039	bb			528.4263	105.7	5.7	3528.7
XIBLK04	2-Nitrotoluene	137 > 46			36388.039									
XIBLK04	4-Nitrotoluene	137 > 46			36388.039									
XIBLK04	3-Nitrotoluene	137 > 46			36388.039									
XIBLK04	PETN	361 > 62			36388.039									

4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 16-MAR-10 10:39

GEL Data File: EXS03160010.wiff

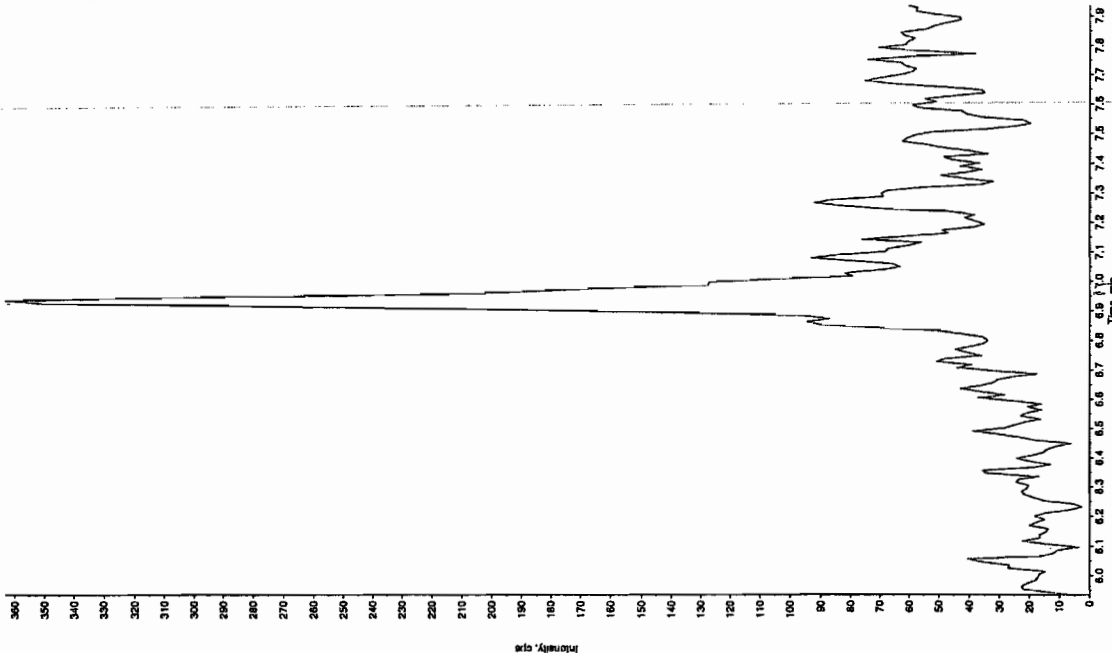
Instrument ID: LCMSMS

Column: Phenomenex Ultracarb 5u ODS(20)

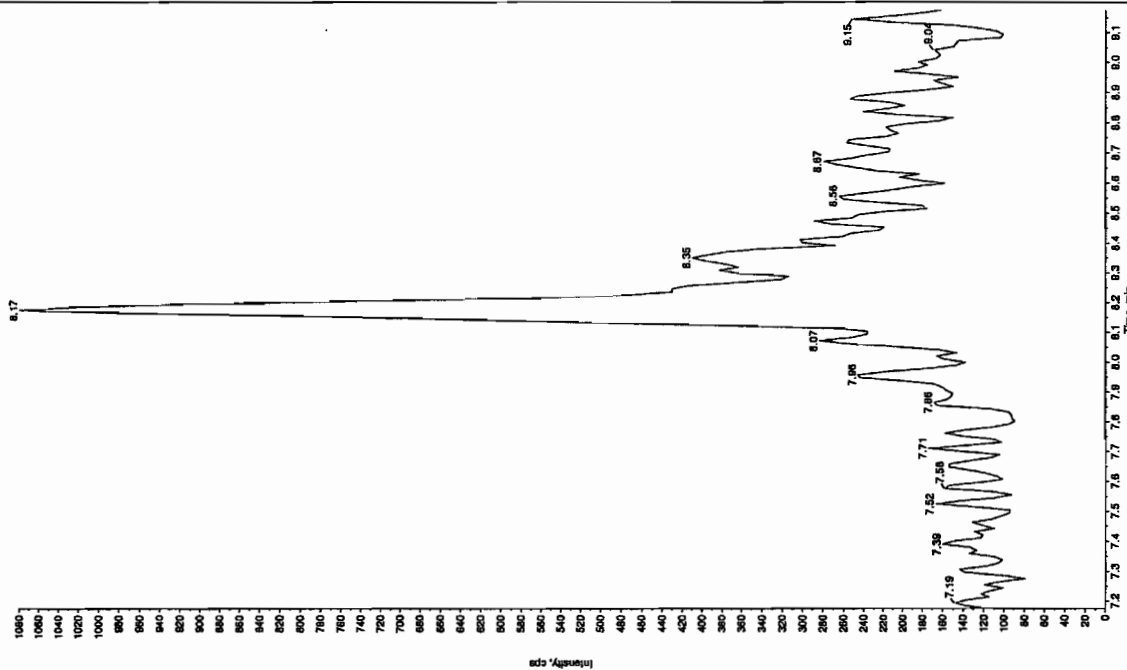
Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.31
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/18/10

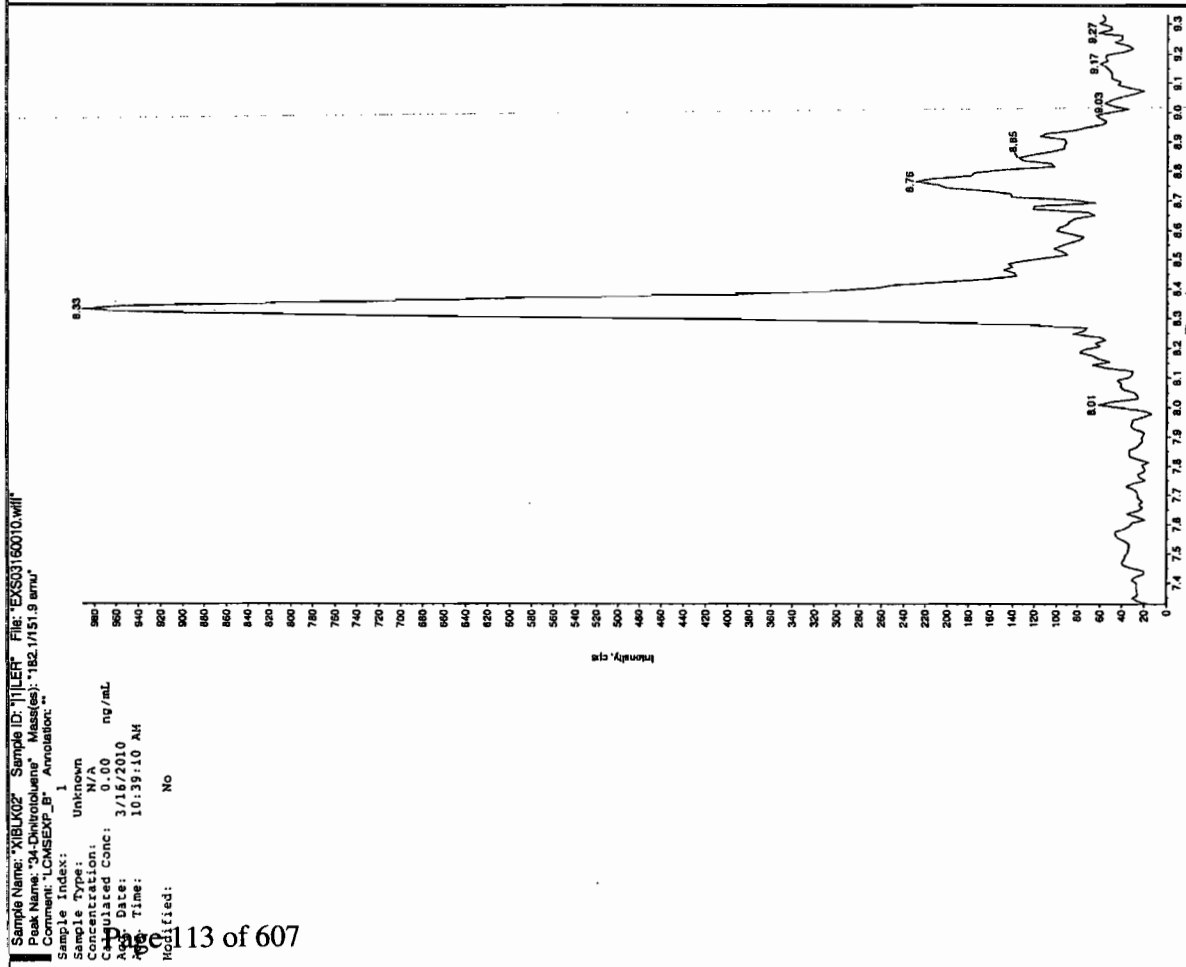
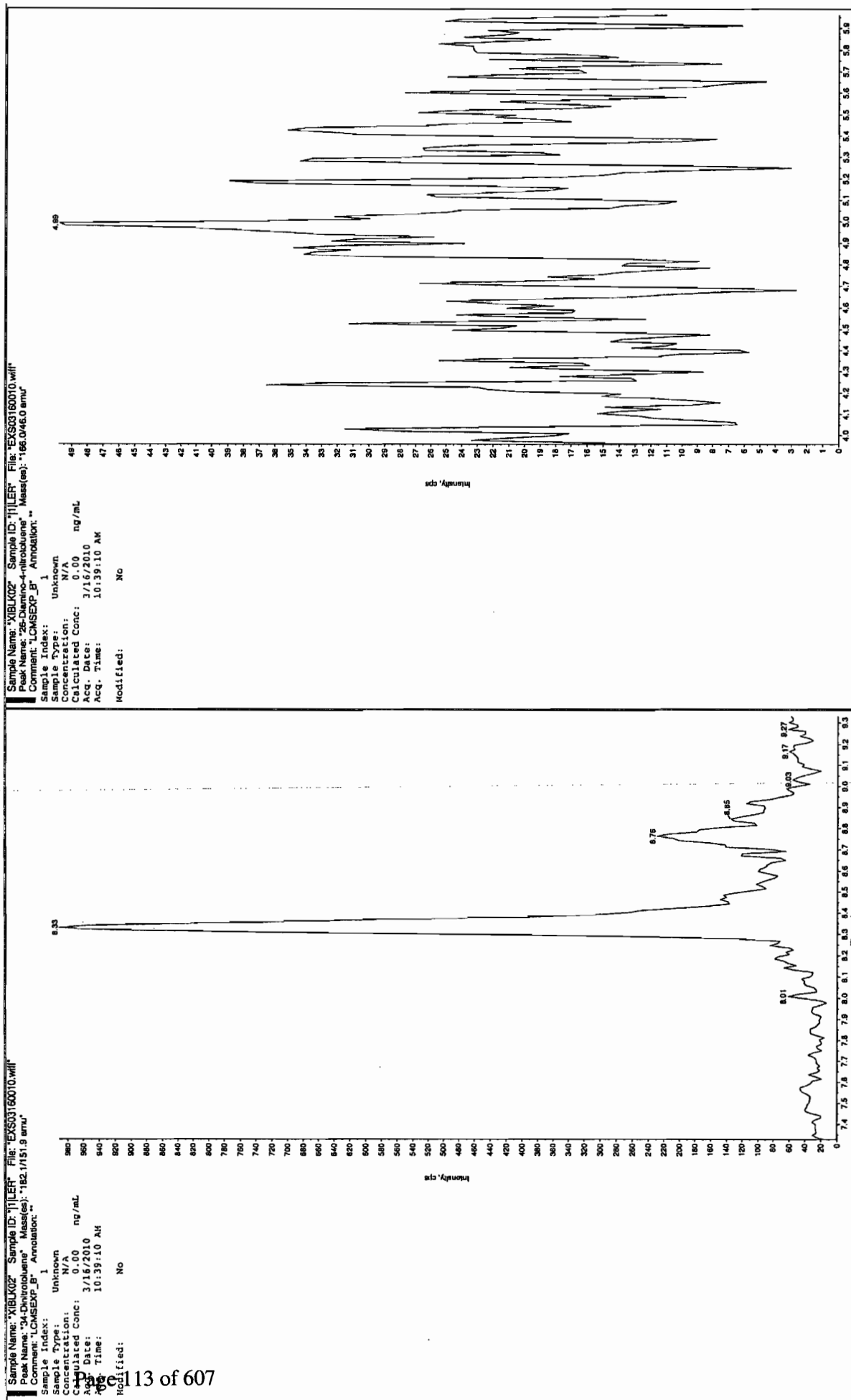
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 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/16/2010 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "T1LER" File: "EXS03180010.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""
 Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/16/2010 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 AM
 Modified: No



for 3/18/10



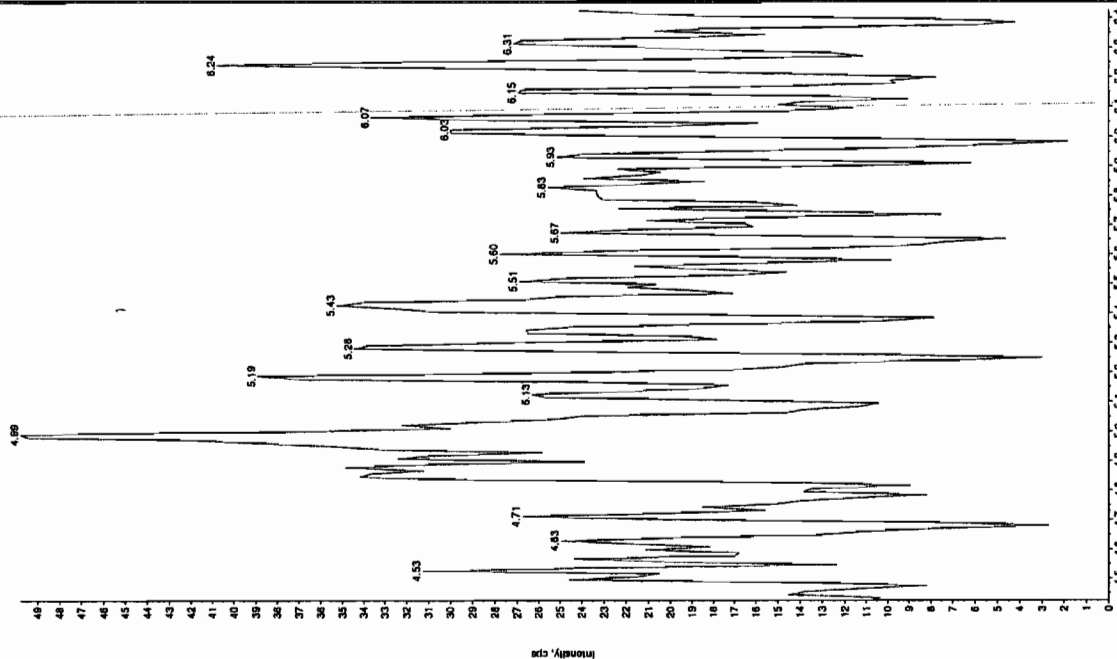
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "XIBL002" Sample ID: "111ER" File: "EXS03160010.will"
 Peak Name: "24-Diamino-6-nitroloisene" Mass(es): "185.0/45.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 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

114 of 607



Sample Name: "XIBL002" Sample ID: "111ER" File: "EXS03160010.will"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "389.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3.31 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:39:10 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: 1.10e+005 counts
 Height: 26001421 cps
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 16-MAR-10 11:10

GEL Data File: EXS03160012.wiff

Instrument ID: LCMSMS

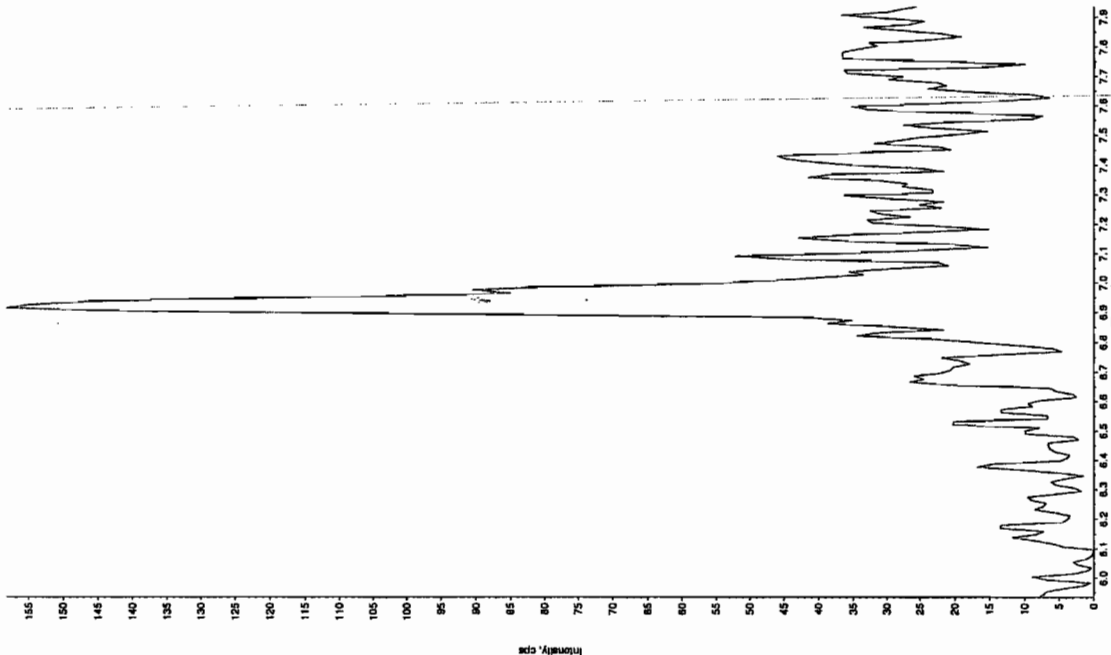
Column: Phenomenex Ultracarb 5u ODS(20)

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

Law 3/18/10

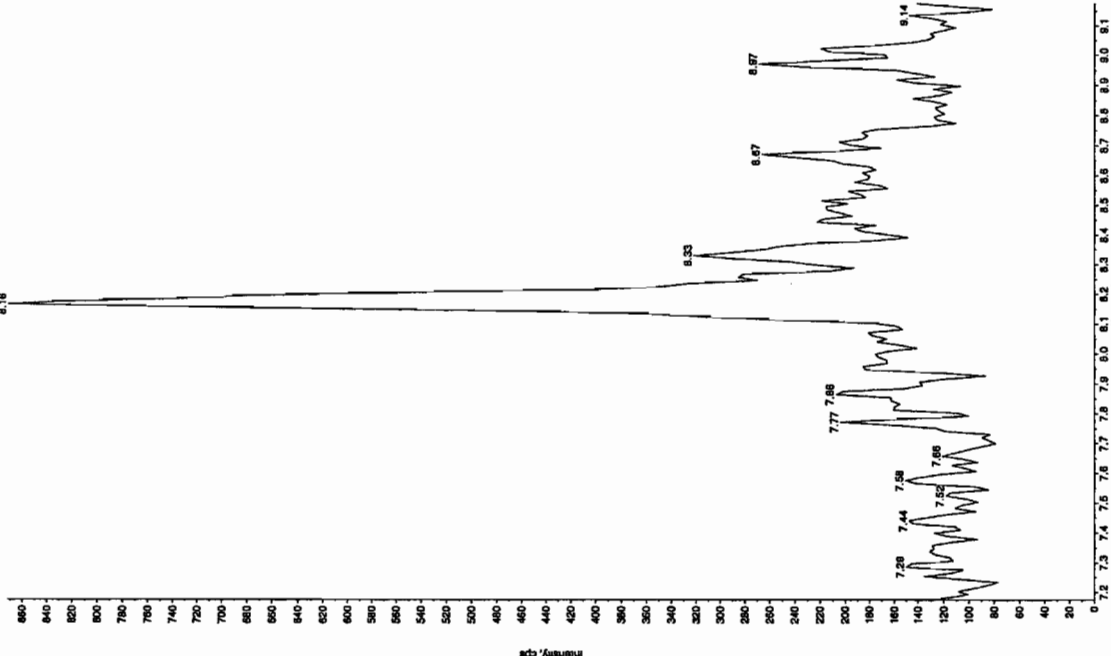
Sample Name: "YIELK03" Sample ID: "JUL18" File: "EX303160012.wif"
 Peak Name: "TATB" Masses: "257.2204.9 amu"
 Comment: "LCMSXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:10:32 AM
 Modified: No



Sample Name: "YIELK03" Sample ID: "JUL18" File: "EX303160012.wif"
 Peak Name: "TATB" Masses: "182.046.0 amu"
 Comment: "LCMSXP_B" Annotation: "

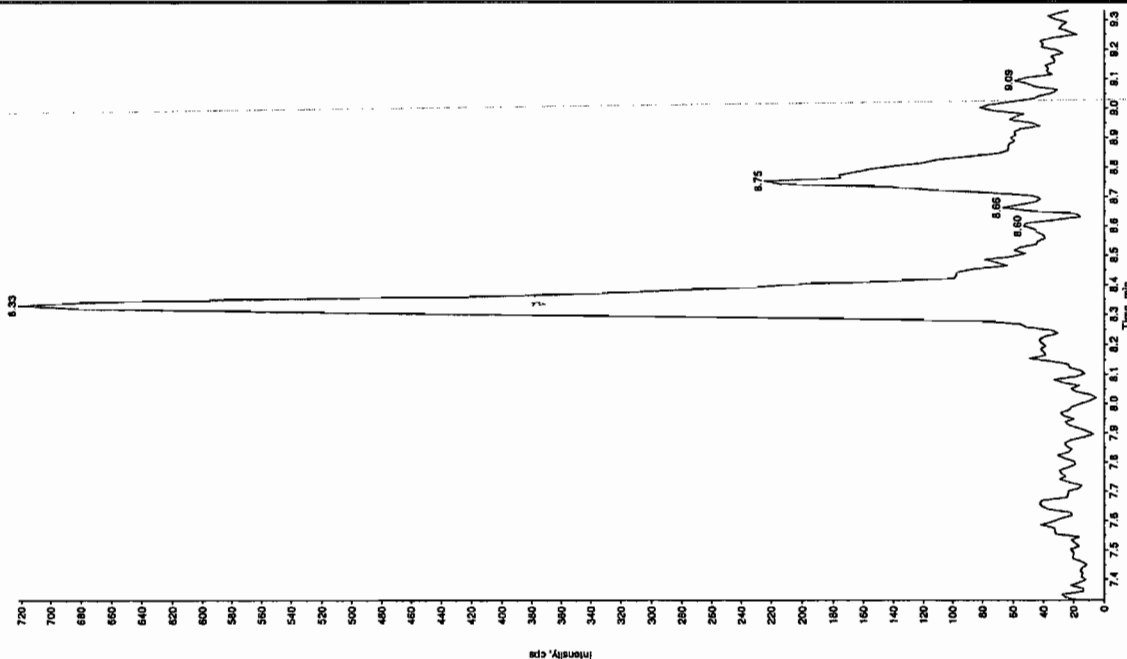
Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:10:32 AM
 Modified: No



Law 3/18/10

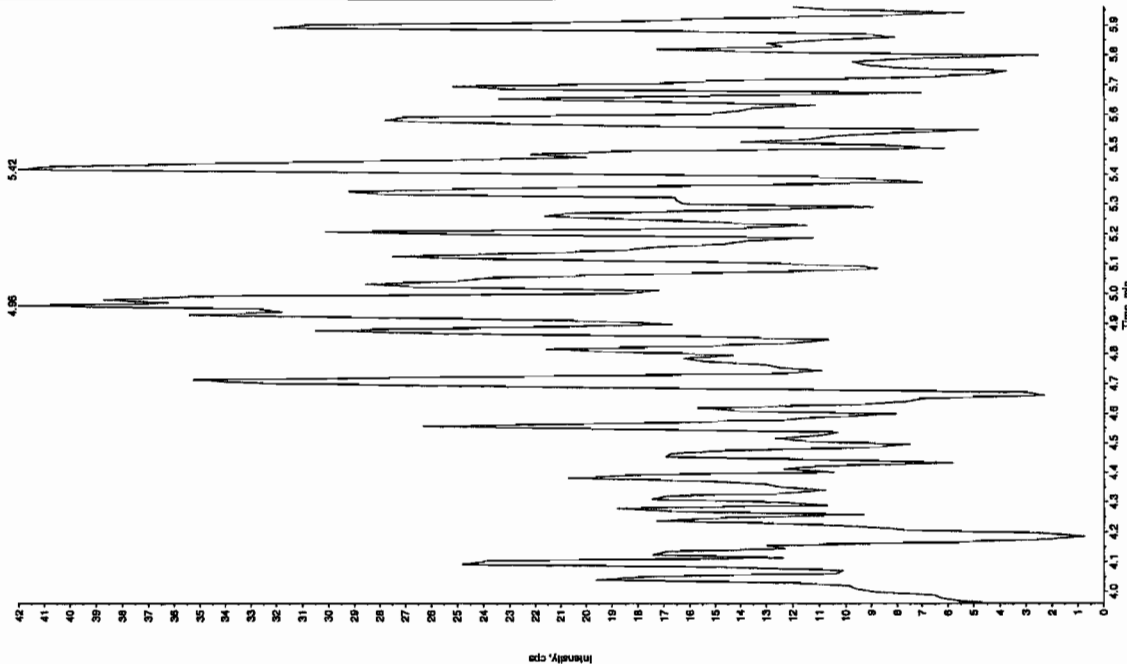
Sample Name: "XBLK03" Sample ID: "111ER" File: "EXS03160012.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

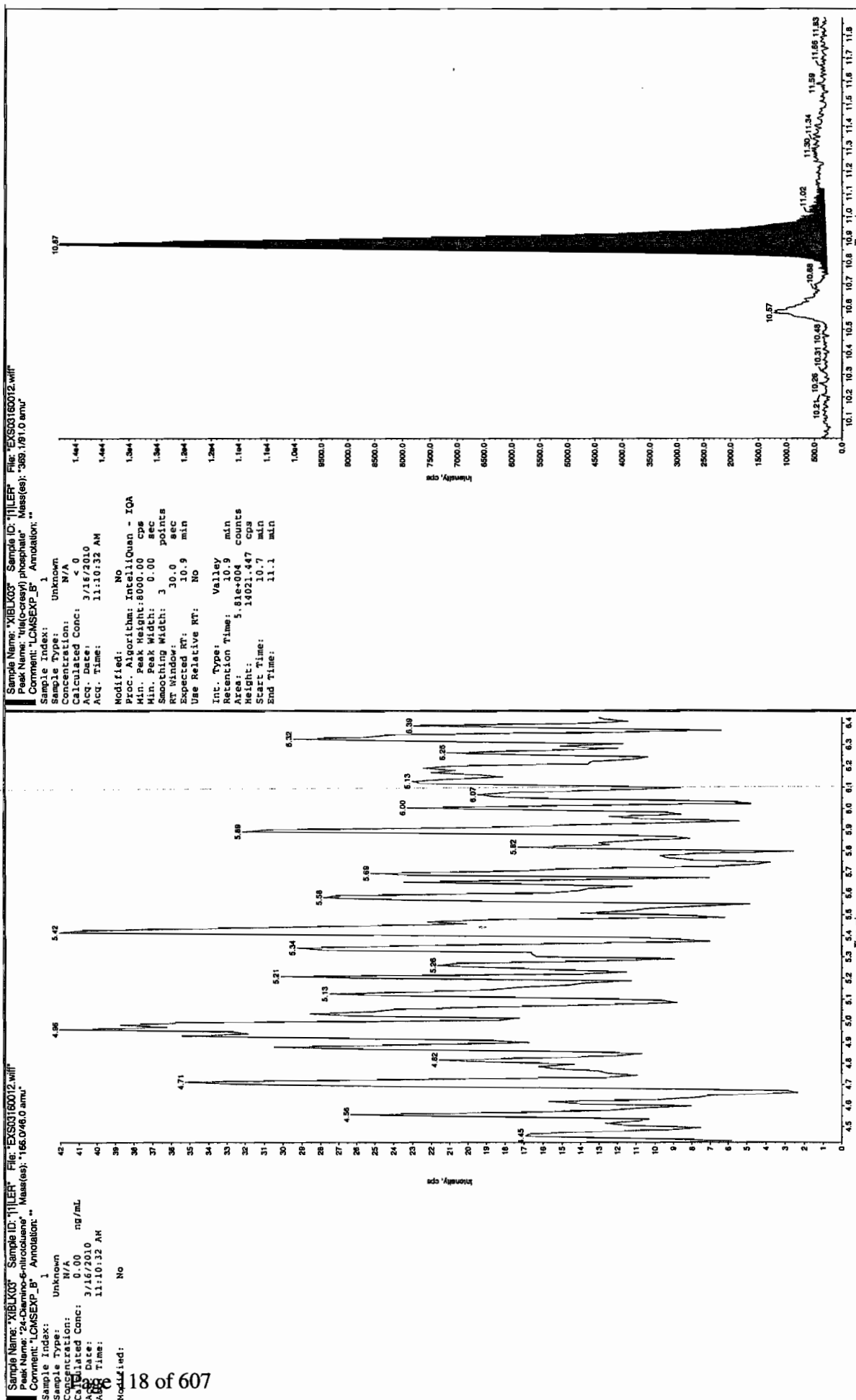
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:10:32 AM
 Modified: No



Sample Name: "XBLK03" Sample ID: "111ER" File: "EXS03160012.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "165.0/45.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:10:32 AM
 Modified: No





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 16-MAR-10 14:34

GEL Data File: EXS03160025.wiff

Instrument ID: LCMSMS

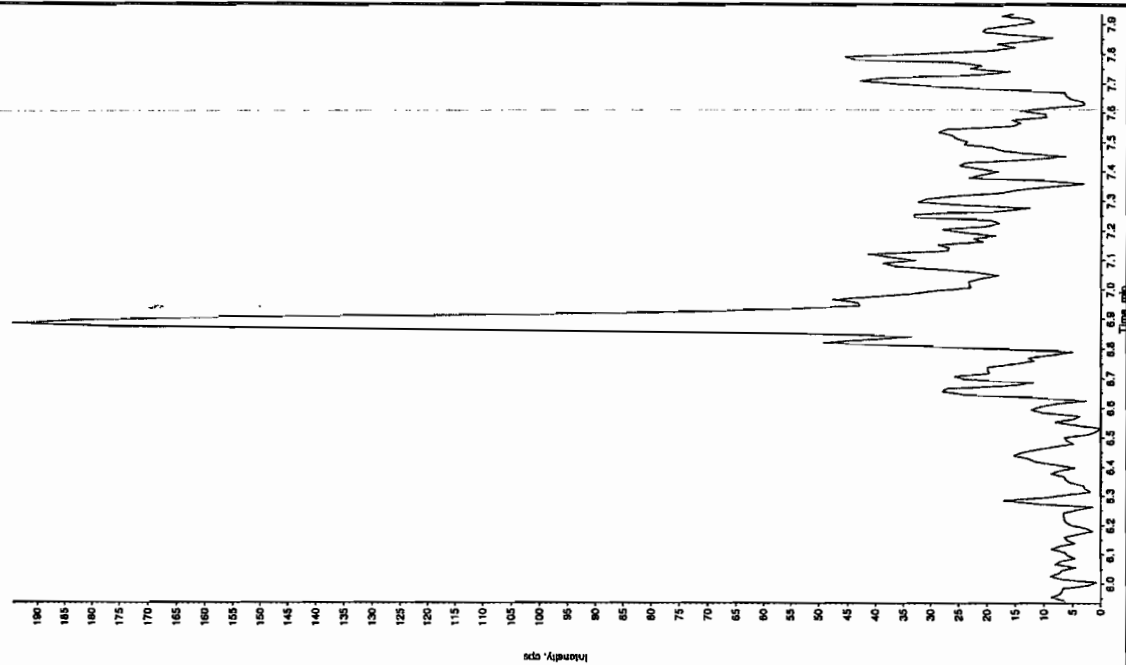
Column: Phenomenex Ultracarb 5u ODS(20)

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

Jan 31/01/10

Sample Name: "XBLX04" Sample ID: "111ER" File: "EXS03160025.wif"
 Peak Name: "35-Dinitroline" Mass(es): "182.045.0 amu"
 Comment: "LONSEXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: No



Jan 03/12/10

Sample Name: "XBLX04" Sample ID: "111ER" File: "EXS03160025.wif"
 Peak Name: "1A1B" Mass(es): "257.2204.9 amu"
 Comment: "LONSEXP_B" Annotation: "1"

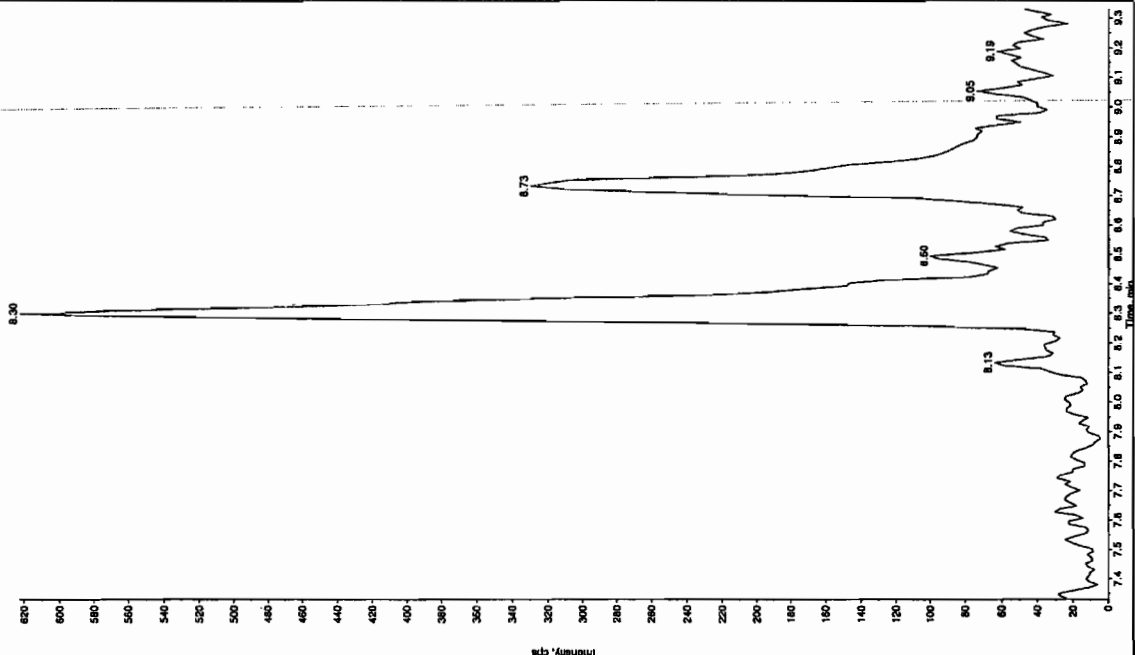
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: No



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

Sample Name: "XBLX04" Sample ID: "11LER" File: "EXS03160025.wif"
 Peak Name: "25-Diethyl-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: No

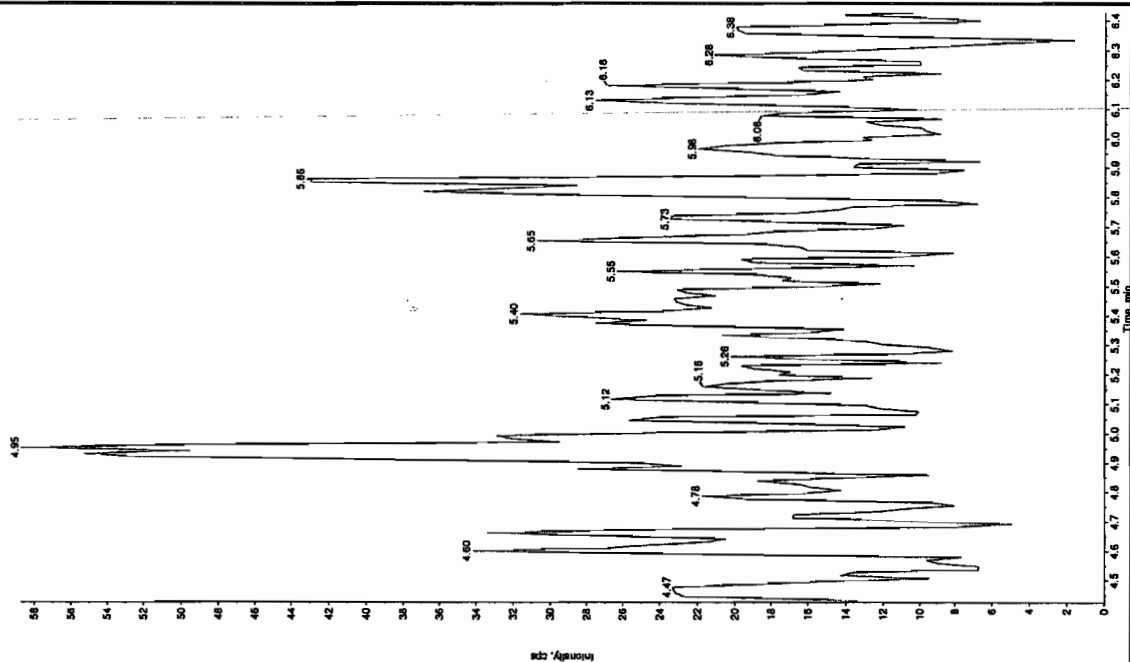


Sample Name: "XBLX04" Sample ID: "11LER" File: "EXS03160025.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"
 Comment: "LONSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: No

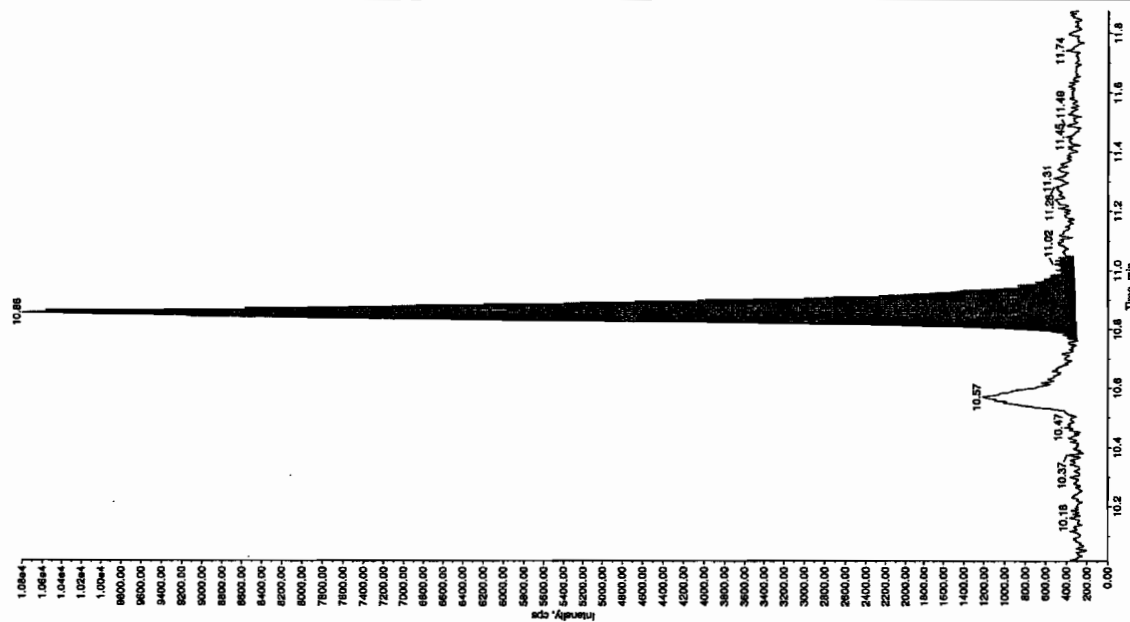
Sample Name: "XBLX04" Sample ID: "TILER" File: "EX503160225.wif"
 Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "156.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: NO



Sample Name: "XBLX04" Sample ID: "TILER" File: "EX503160225.wif"
 Peak Name: "tris(cresyl) phosphate" Mass(es): "389.181.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Date: 3/16/2010
 Acq. Time: 2:34:37 PM
 Modified: NO
 Proc. Algorithm: IntallQuan - IQA
 Min. Peak Height: 8000.00 cps
 Smoothing Width: 3 0.00 sec
 RT Width: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: NO
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 4.30e+004 counts
 Height: 10482.743 cps
 Start Time: 10.8 min
 End Time: 11.0 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK02

Analysis Date: 19-MAR-10 08:52

GEL Data File: EXS03190010.wiff

Instrument ID: LCMSMS

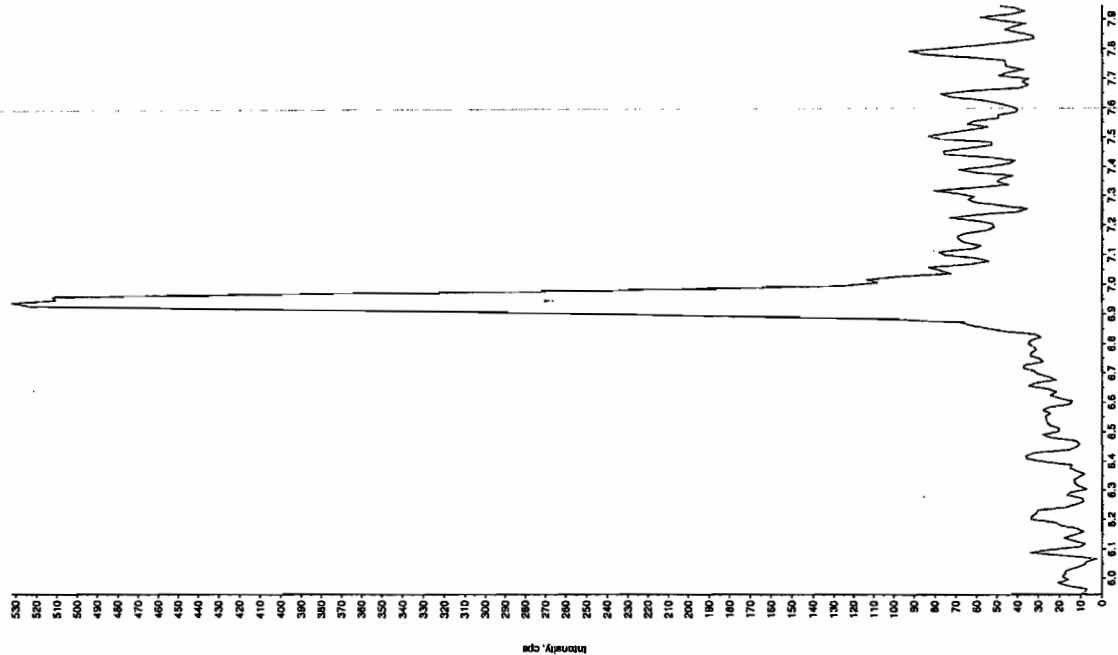
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
tris(o-cresyl) phosphate	0	8.74
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	3.52

Jan 3/23/10

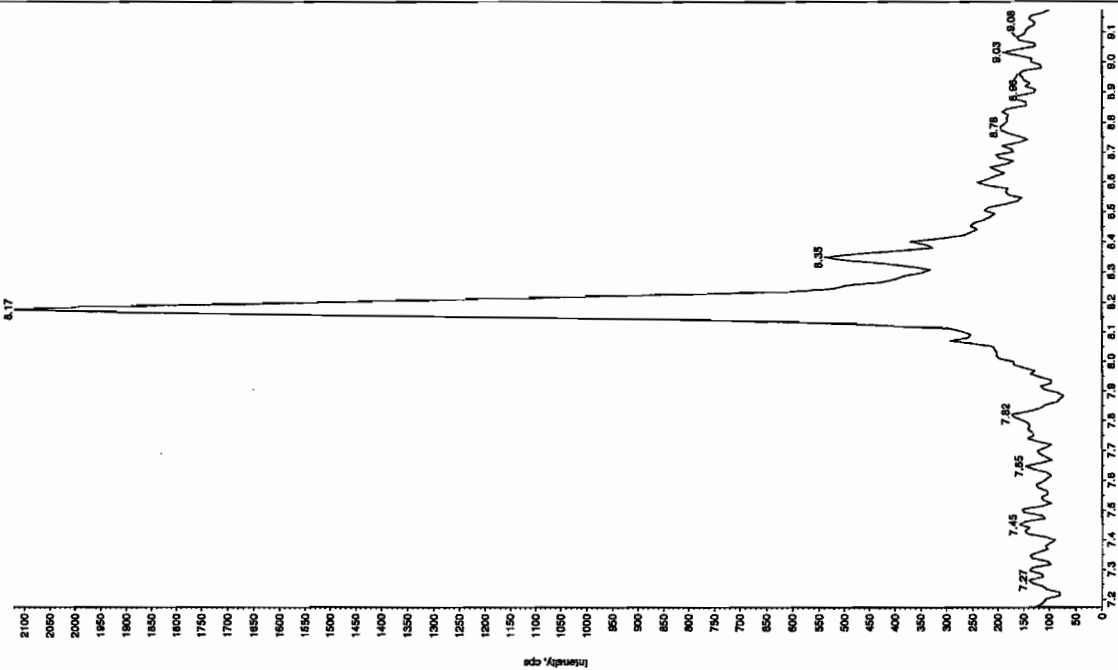
Sample Name: "XIBLX02" Sample ID: "HILR" File: "EXS03190010.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/19/2010
 Acq. Date: 8:52:36 AM
 Acq. Time: 8:52:36 AM
 Modified: No



Sample Name: "XIBLX02" Sample ID: "HILR" File: "EXS03190010.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/19/2010
 Acq. Date: 8:52:36 AM
 Acq. Time: 8:52:36 AM
 Modified: No



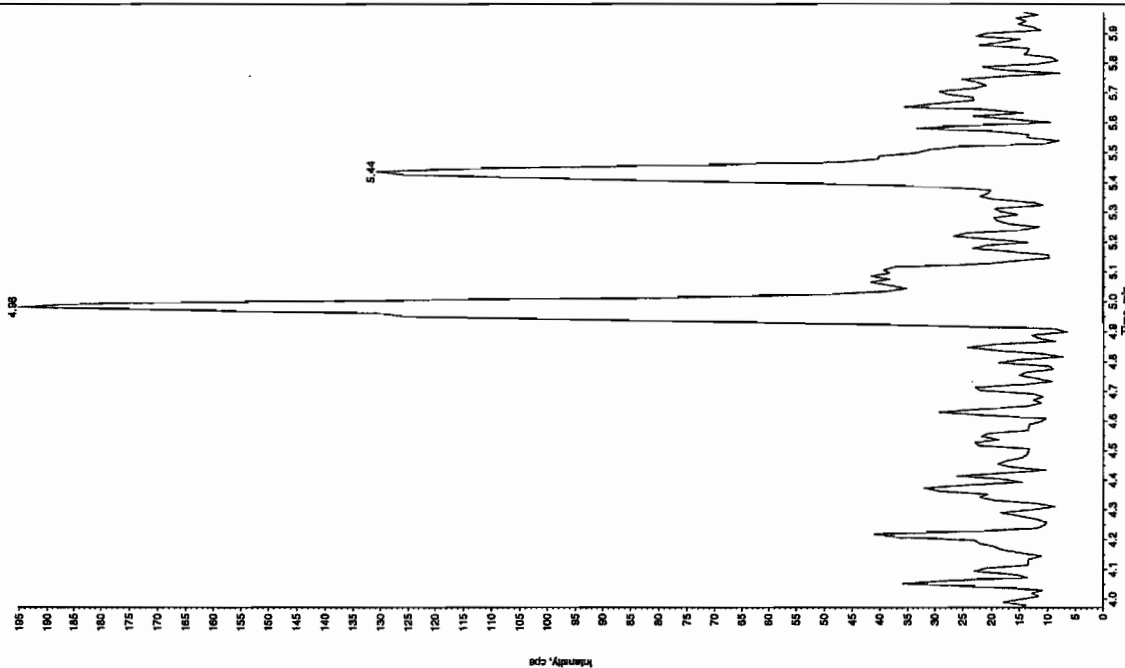
Jan 3/24/10

Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS03190010.wif"

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

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Calculated Conc: 3/19/2010
 Acq. Date: 8:52:36 AM
 Acq. Time: 8:52:36 AM
 Modified: No



Sample Name: "XIBLK02" Sample ID: "111ER" File: "EXS03190010.wif"

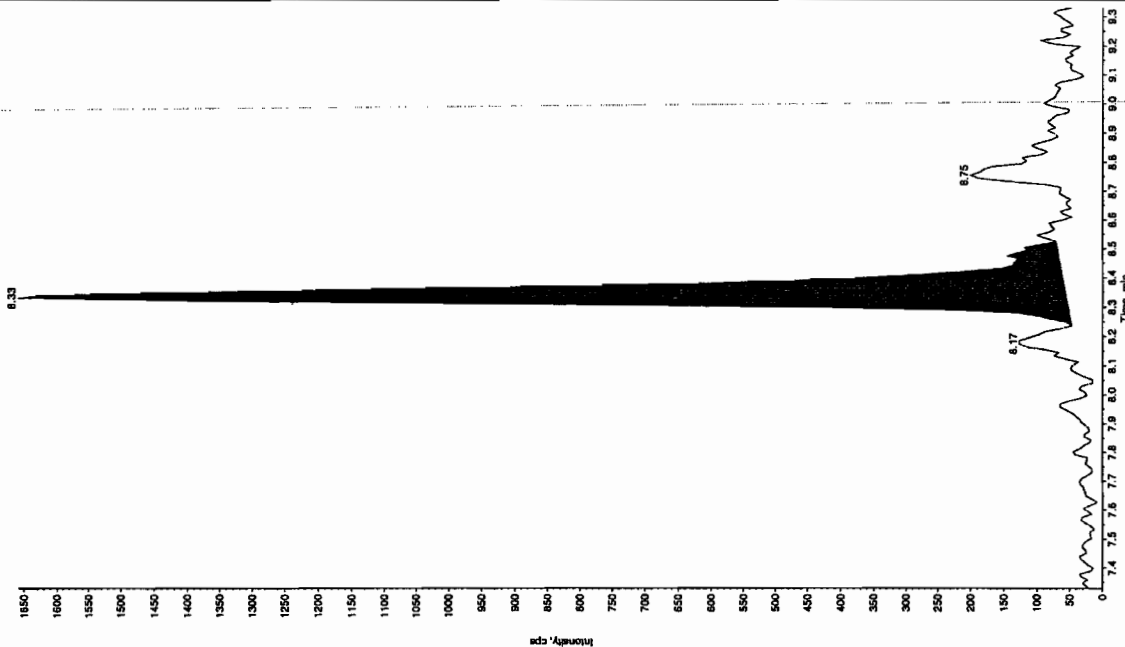
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1715.9 amu"

Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: 3.52 ng/mL
 Calculated Conc: 3/19/2010
 Acq. Date: 8:52:36 AM
 Acq. Time: 8:52:36 AM
 Modified: No

Processing: IntellQuan - IQA
 Method: Peak Width: 1460.00 cps
 Method: Peak Width: 0.00 sec
 Method: Peak Width: 3 0.00 points
 Method: Peak Width: 15.0 sec
 Method: Peak Width: 8.33 min
 Method: Peak Width: No

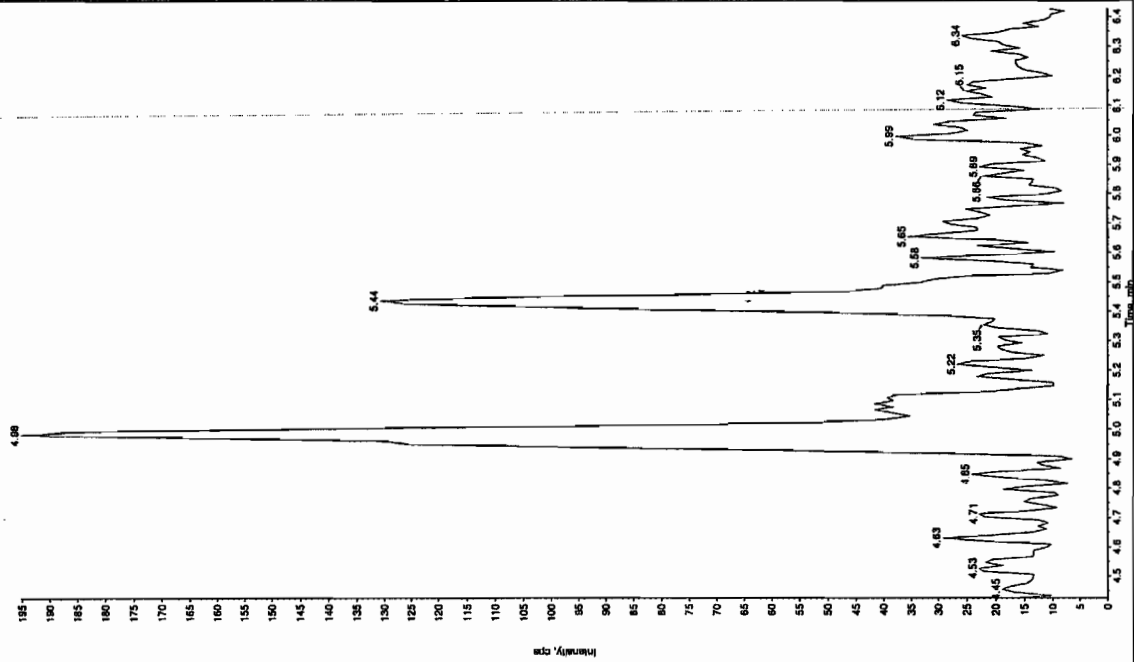
Int. Type: Valley
 Retention Time: 8.33 min
 Area: 7.11e+003 counts
 Height: 1603.286 cps
 Start Time: 8.24 min
 End Time: 8.53 min



Sample Name: "XIBLX02" Sample ID: "11LER" File: "EXS03180010.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/19/2010
 Date: 8:52:16 AM
 Acq. Time: 8:52:16 AM
 Modified: No

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Sample Name: "XIBLX02" Sample ID: "11LER" File: "EXS03180010.wif"
 Peak Name: "tris(o-cresyl) phosphate" Mass(es): "368.191.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/19/2010
 Date: 8:52:16 AM
 Acq. Time: 8:52:16 AM
 Modified: No

Proc. Algorithm: IntelliQuan - TOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Peak Height: 1.88e+05 counts
 Mass(es): 46169.971
 Start Time: 10.8 min
 End Time: 11.1 min



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK03

Analysis Date: 19-MAR-10 09:24

GEL Data File: EXS03190012.wiff

Instrument ID: LCMSMS

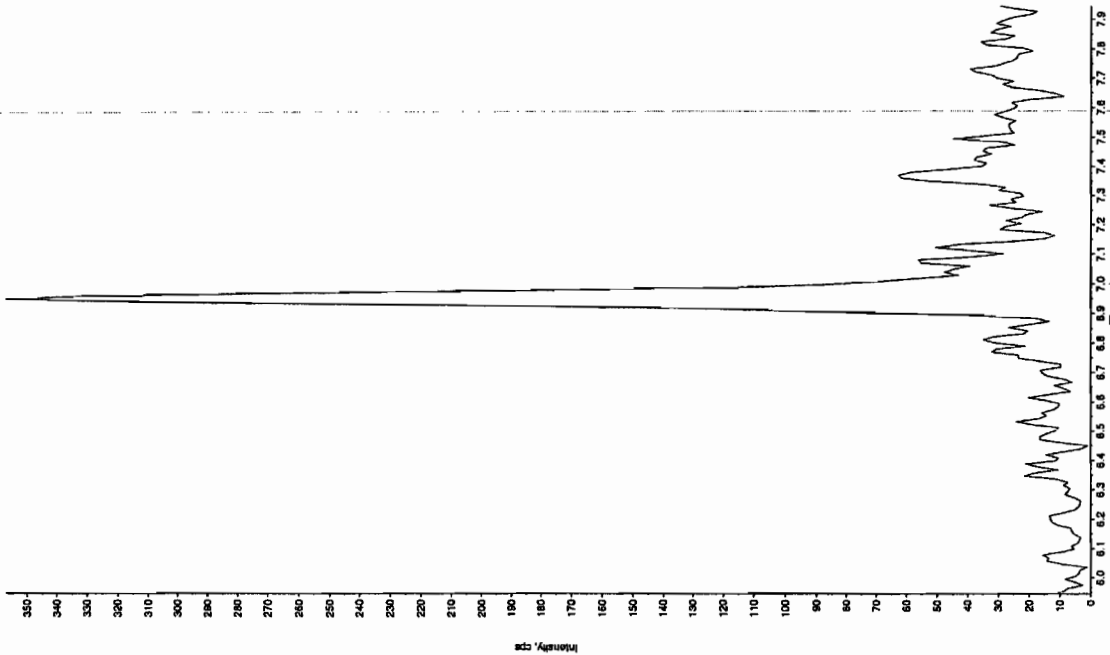
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.14
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/23/10

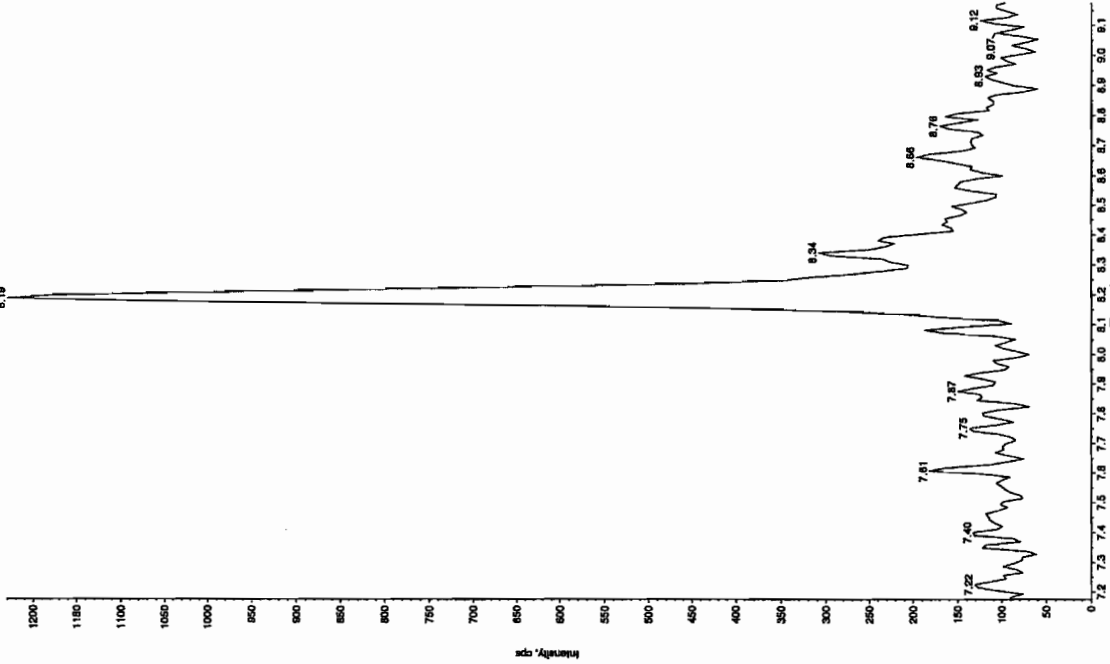
Sample Name: "XBL K03" Sample ID: "111ER" File: "EXS03190012.wif"
 Peak Name: "TATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 9:24:00 AM
 Modified: No

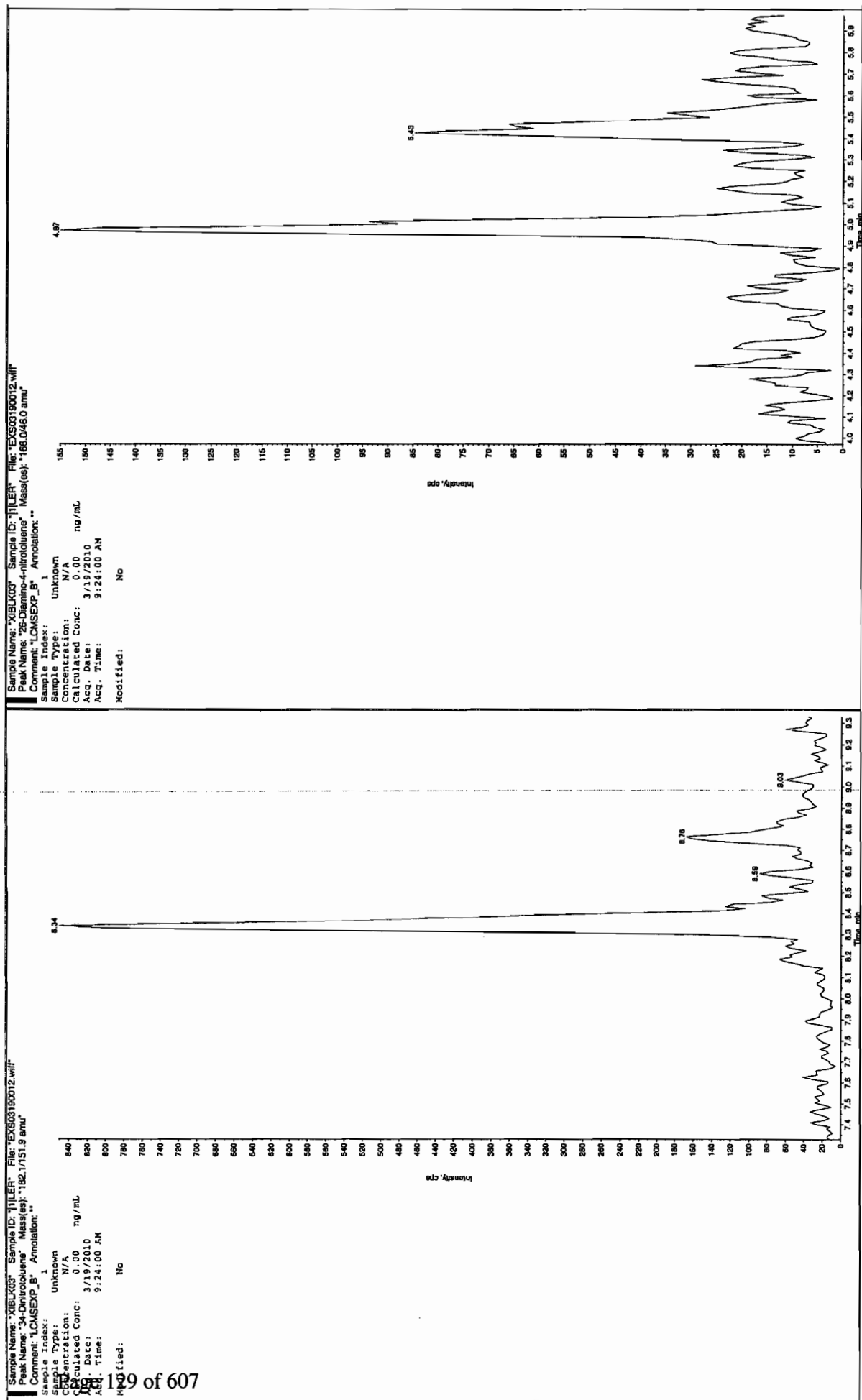


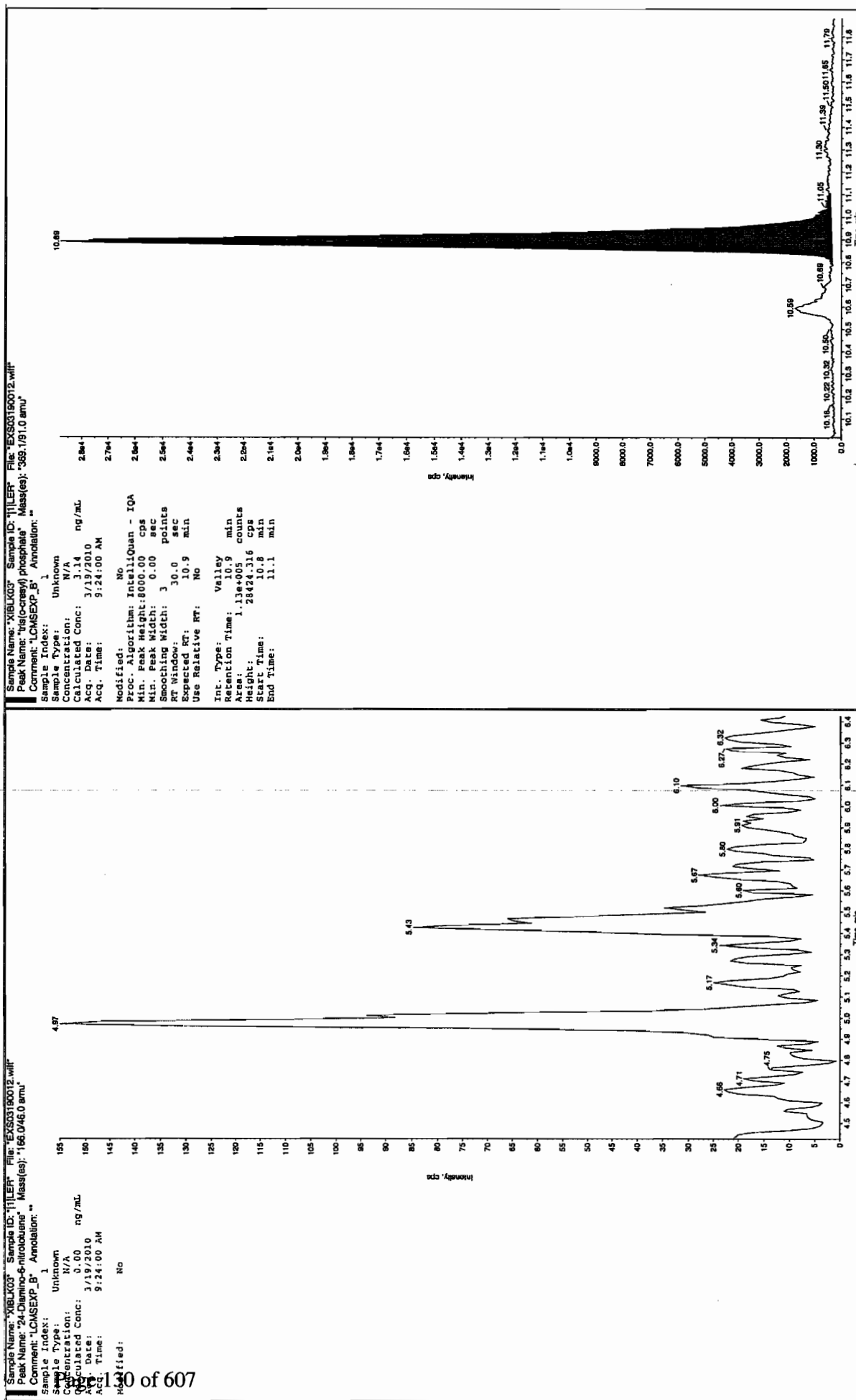
Sample Name: "XBL K03" Sample ID: "111ER" File: "EXS03190012.wif"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 9:24:00 AM
 Modified: No



Run 3/23/10





4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK04

Analysis Date: 19-MAR-10 12:48

GEL Data File: EXS03190025.wiff

Instrument ID: LCMSMS

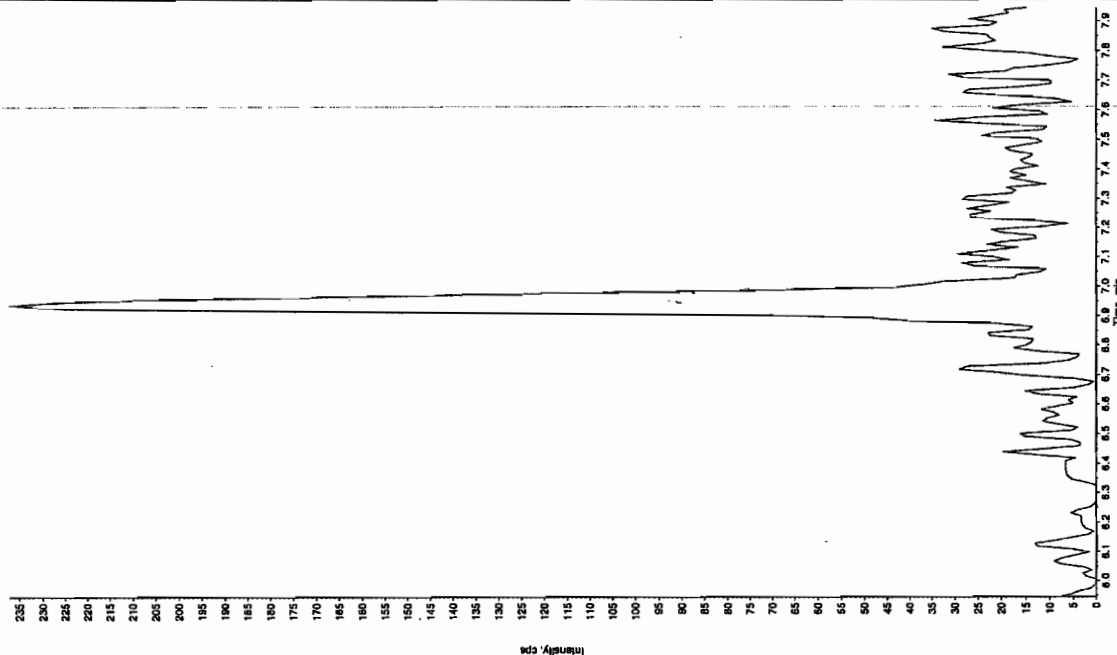
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.38
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

86w 3/23/10

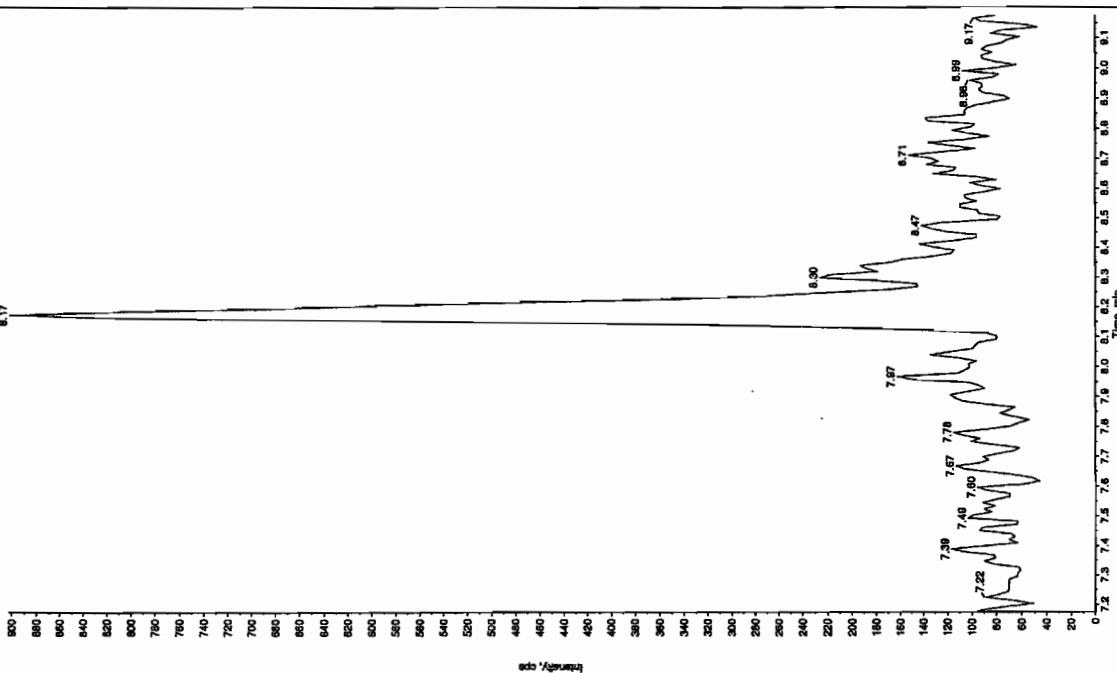
Sample Name: "XIBUK04" Sample ID: "HILER" File: "EXS03190025.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:48:19 PM
 Modified: NO

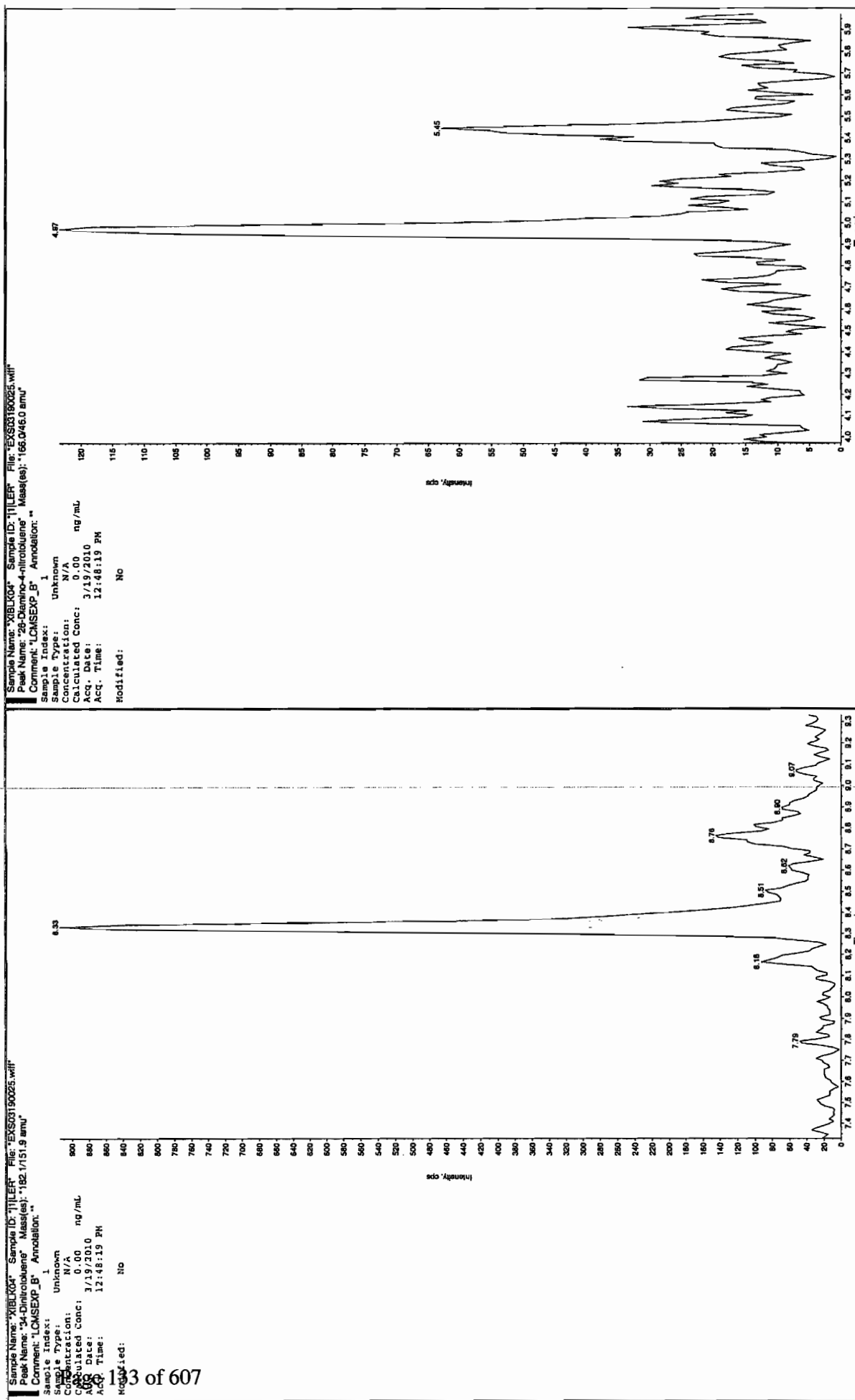


Sample Name: "XIBUK04" Sample ID: "HILER" File: "EXS03190025.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:48:19 PM
 Modified: NO

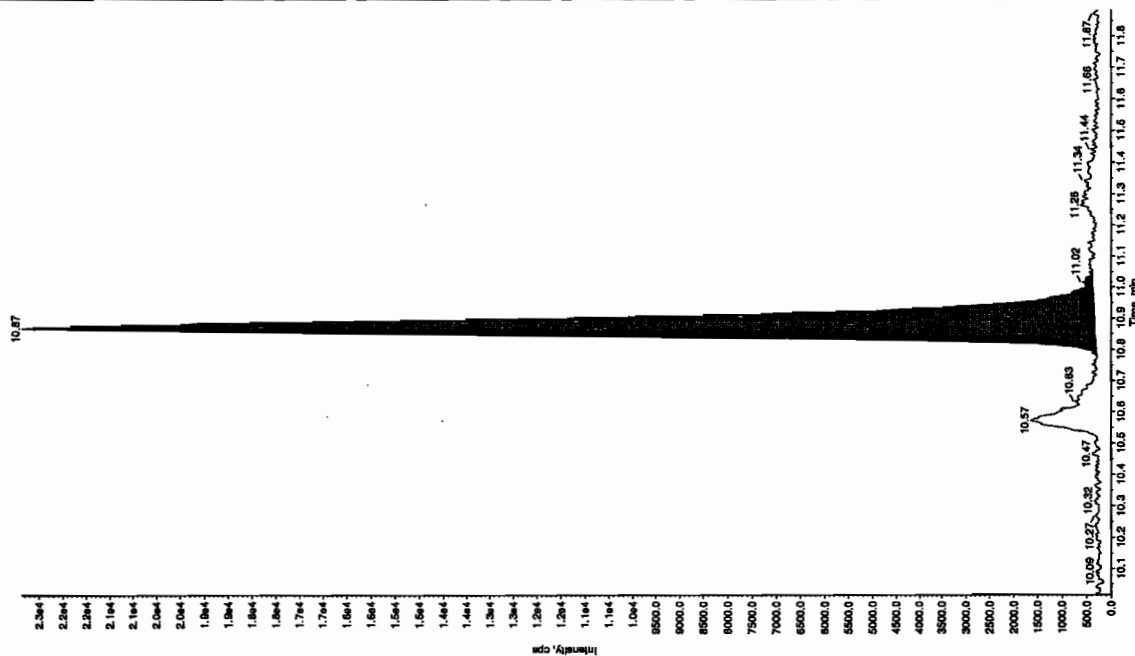


86w 3/23/10



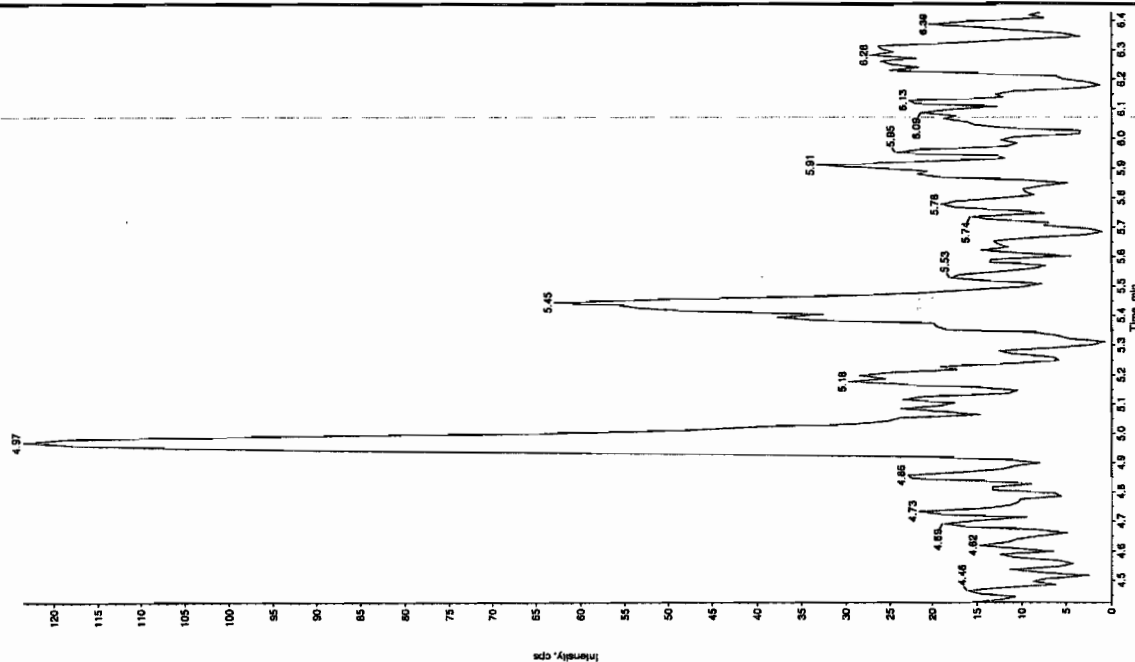
Sample Name: "XIBLK04" Sample ID: "11LER" File: "EXS03190025.wif"
 Peak Name: "tri(o-cresyl) phosphite" Mass(es): "369.1/91.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.38 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:48:19 PM
 Modified: No
 Proc. Method: InChIQuan - IQA
 Min. Peak Height: 8000 cps
 Min. Peak Width: 3 points
 Smoothing Width: 30.0 sec
 RT Window: 10.9 min
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 9.00e+004 counts
 Height: 22545.195 cps
 Start Time: 10.8 min
 End Time: 11.1 min



Sample Name: "XIBLK04" Sample ID: "11LER" File: "EXS03190025.wif"
 Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "186.0/46.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:48:19 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK05

Analysis Date: 19-MAR-10 14:22

GEL Data File: EXS03190031.wiff

Instrument ID: LCMSMS

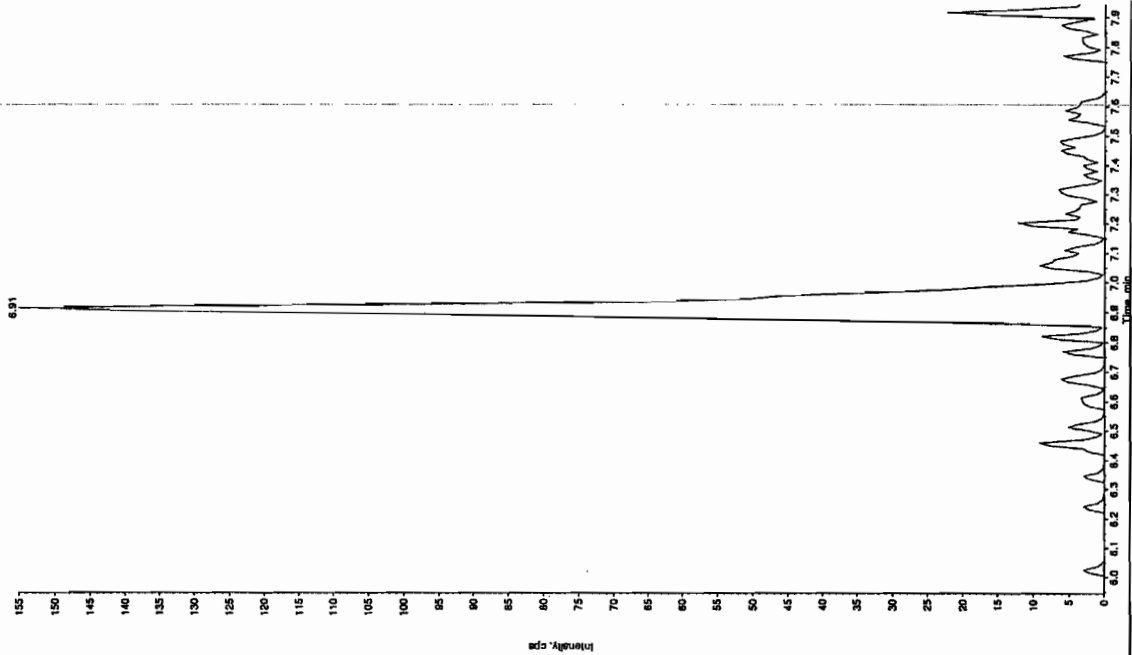
Column: Phenomenex Ultracarb 5u ODS(20)

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

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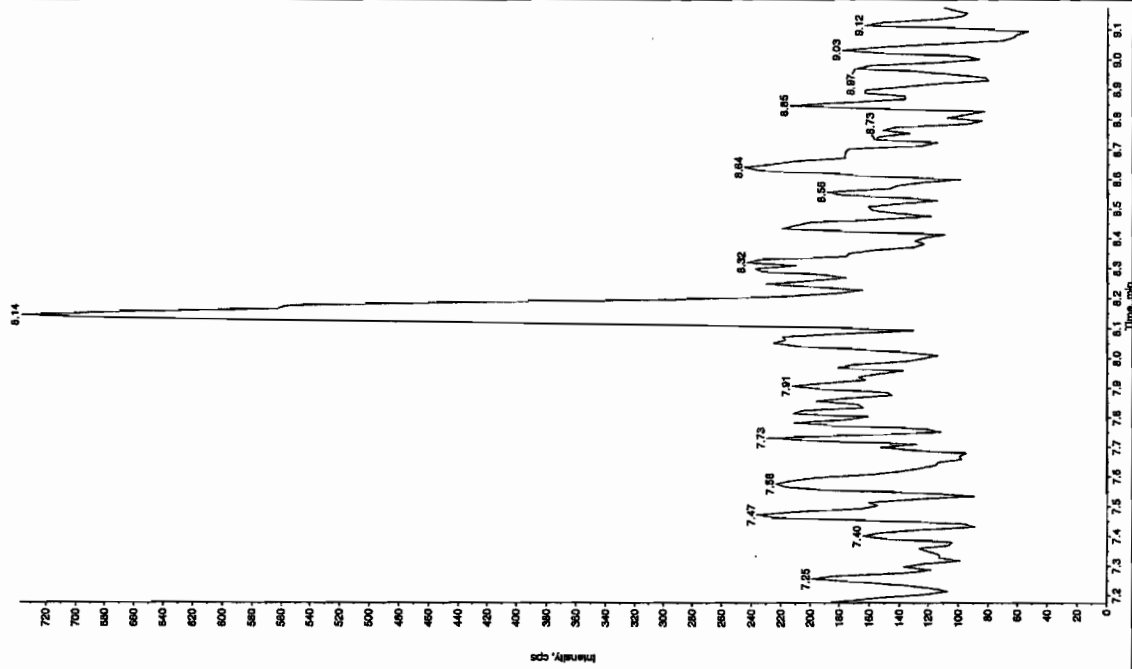
Sample Name: "XBL005" Sample ID: "TILER" File: "EX503190031.wif"
 Peak Name: "TATB" Mass(es): 257.2204.9 amu
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acquisition Date: 3/19/2010
 Acquisition Time: 2:22:36 PM
 Modified: NC

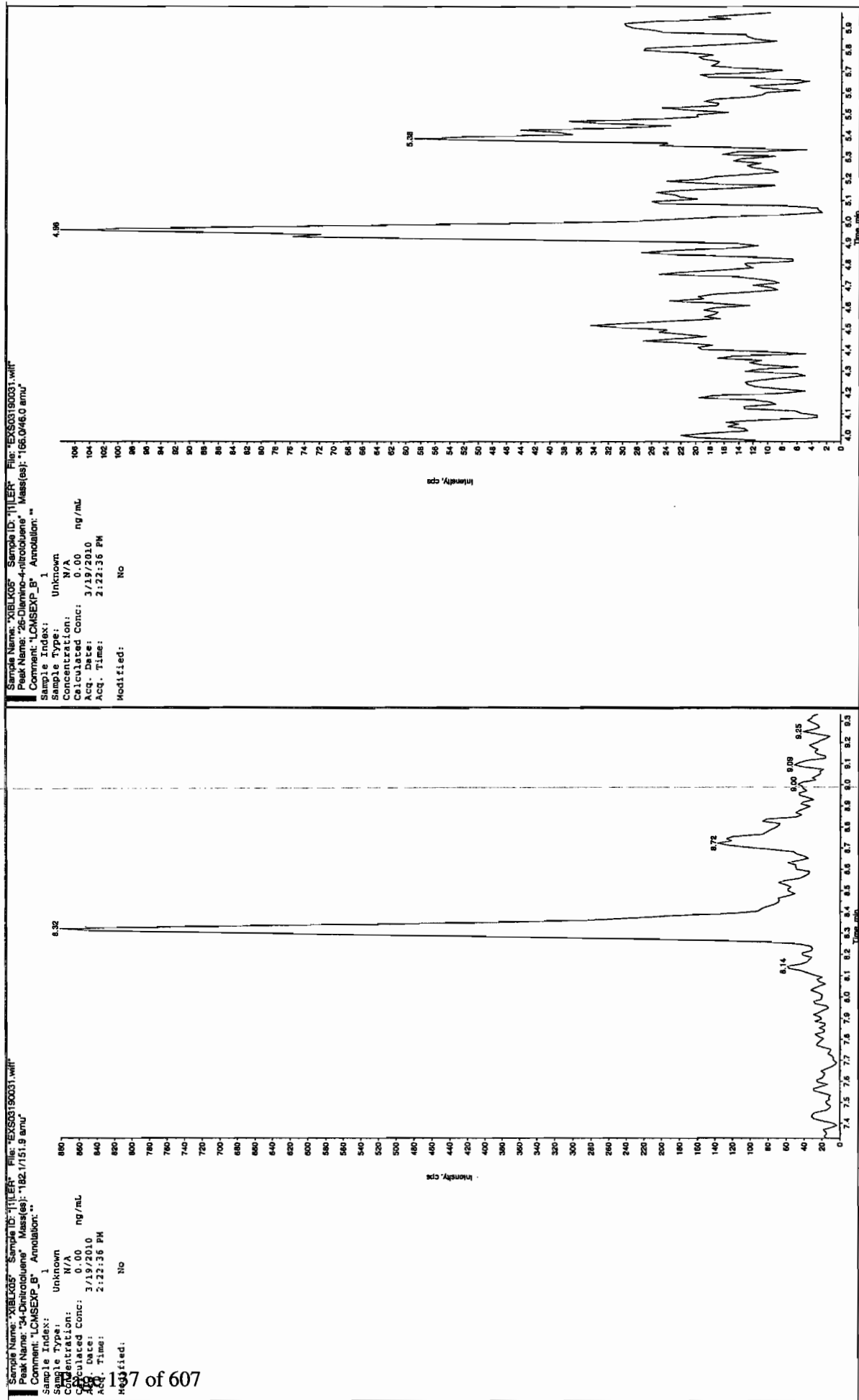


Sample Name: "XBL005" Sample ID: "TILER" File: "EX503190031.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): 182.046.0 amu
 Comment: "LCMS-EXP_B" Annotation: "1"

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acquisition Date: 3/19/2010
 Acquisition Time: 2:22:36 PM
 Modified: No



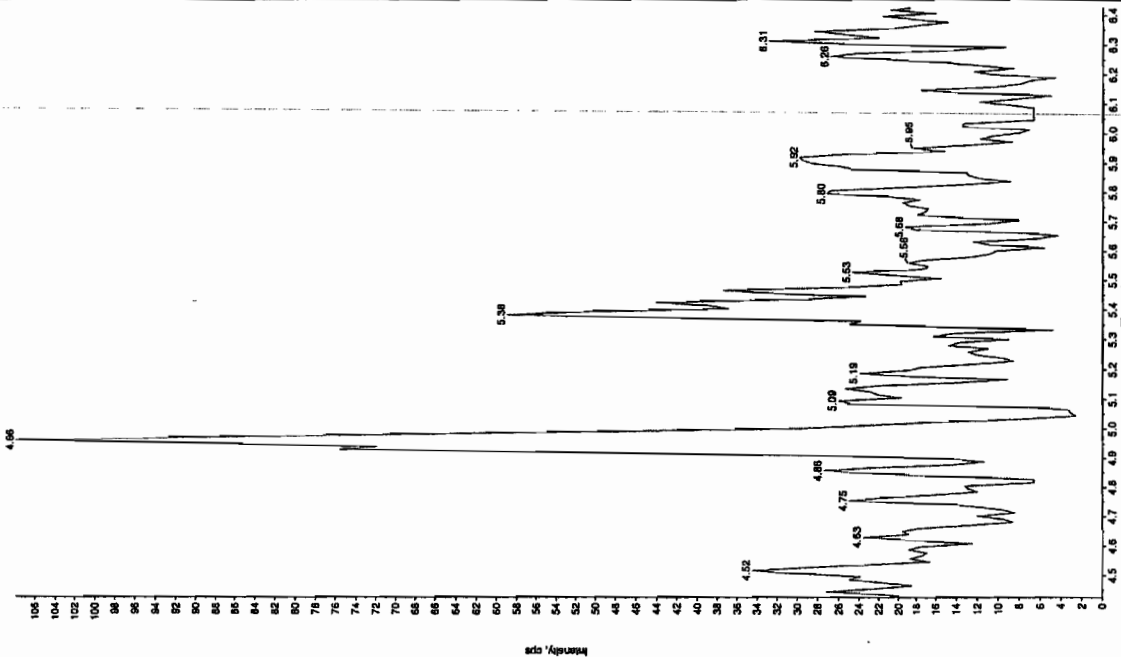
Jan 31/23/10



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

Sample Name: "XBLK05" Sample ID: "JILLER" File: "EX503190031.wif"
 Peak Name: "Tris(o-cresyl) phosphite" Mass(es): "369.1911.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: No Intercept
 Acq. Time: 3/19/2010
 Acq. Time: 2:22:36 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.8 min
 Area: 5.59e+004 counts
 Height: 13541.363 cps
 Start Time: 10.5 min
 End Time: 11.0 min



Sample Name: "XBLK05" Sample ID: "JILLER" File: "EX503190031.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/19/2010
 Acq. Time: 2:22:36 PM
 Modified: No



4A

Explosives Continuing Calibration Blank

Lab Name: GEL Laboratories LLC

GEL Job No(SDG): 10-1956

Lab Code: GEL

Lab Sample ID: XIBLK06

Analysis Date: 19-MAR-10 16:12

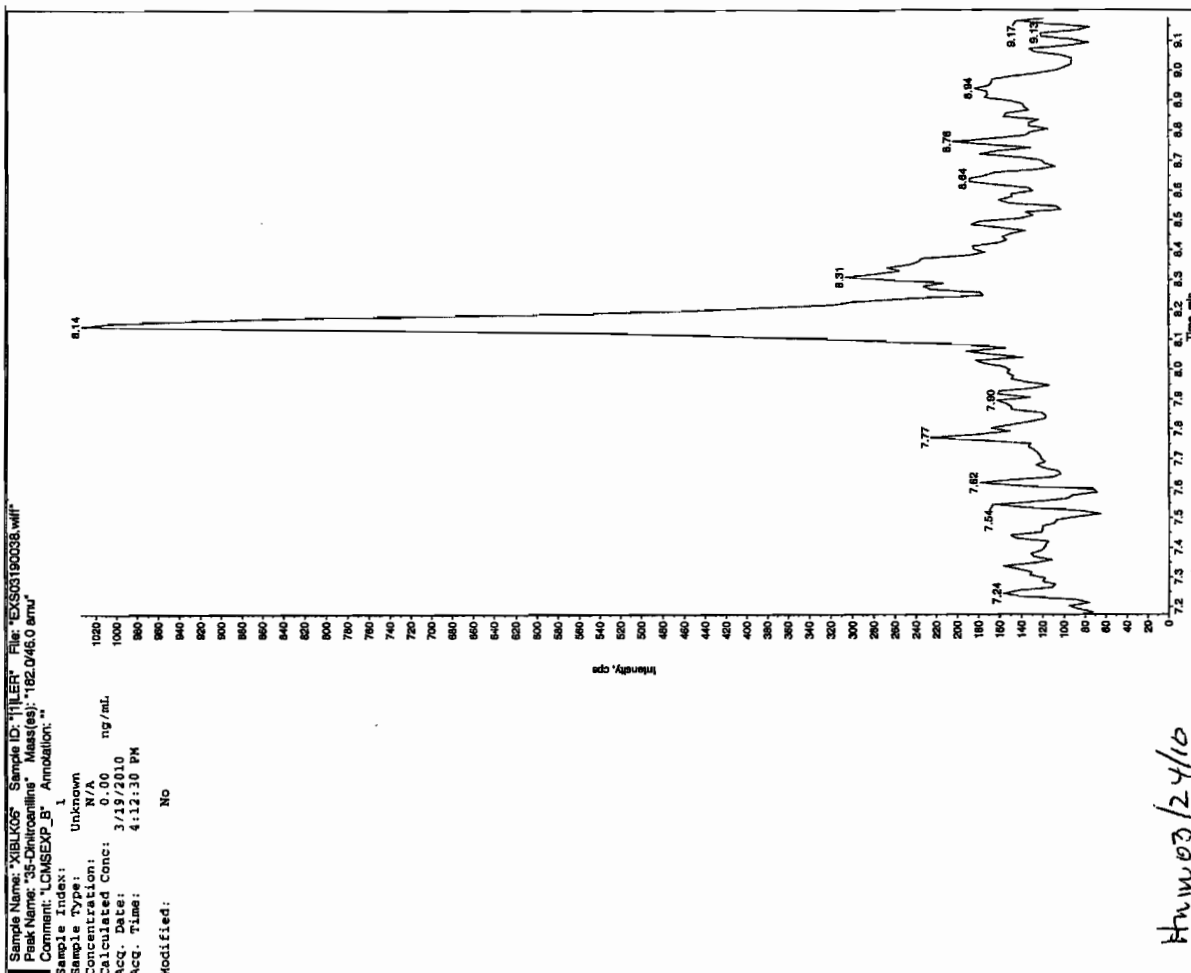
GEL Data File: EXS03190038.wiff

Instrument ID: LCMSMS

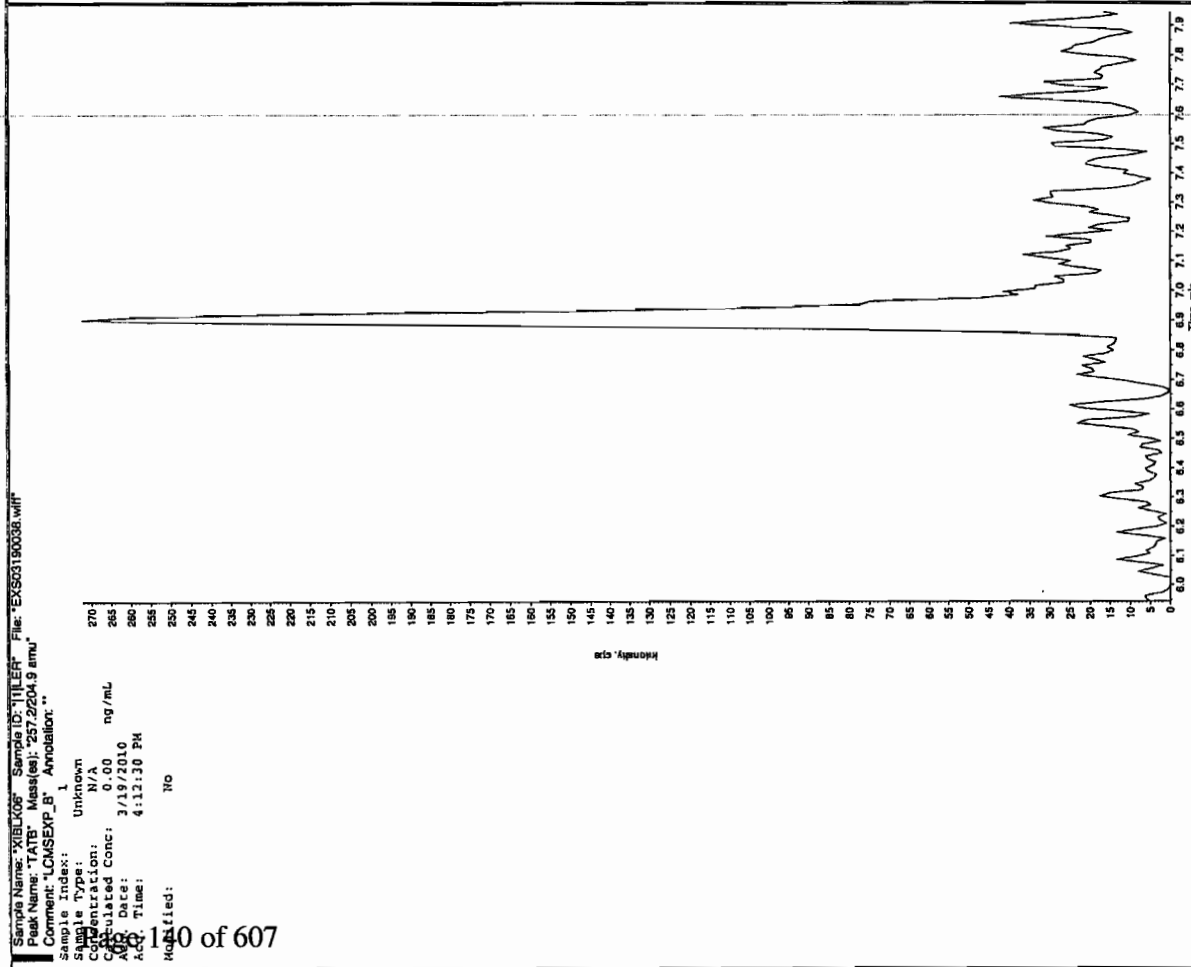
Column: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.378
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

run 3/24/10



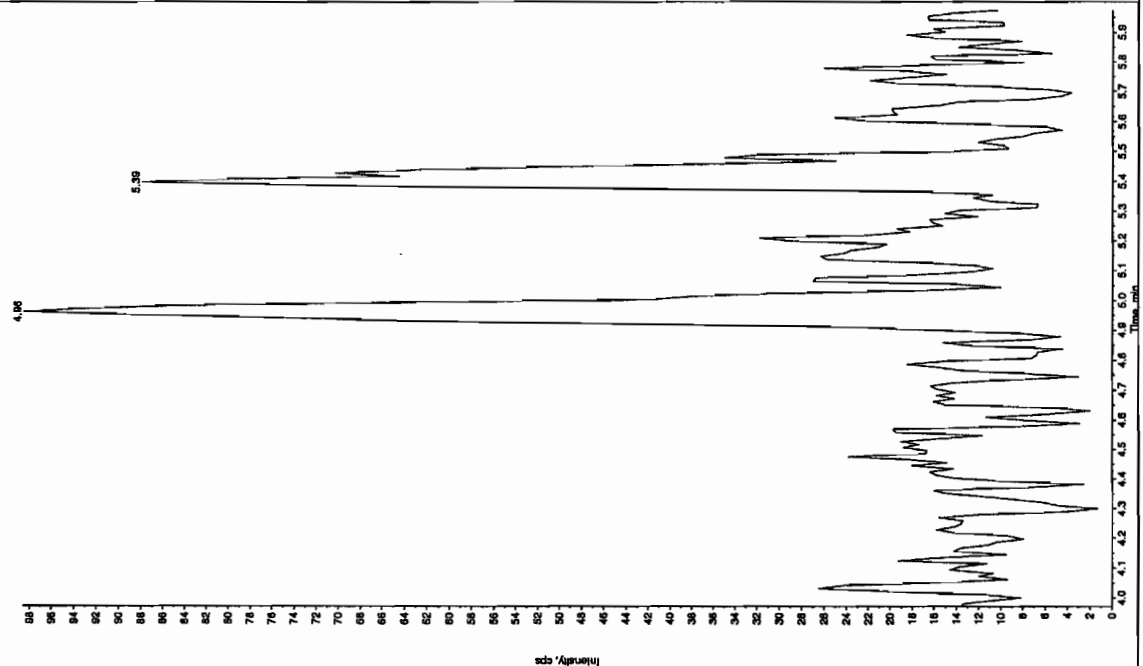
run 03/24/10



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

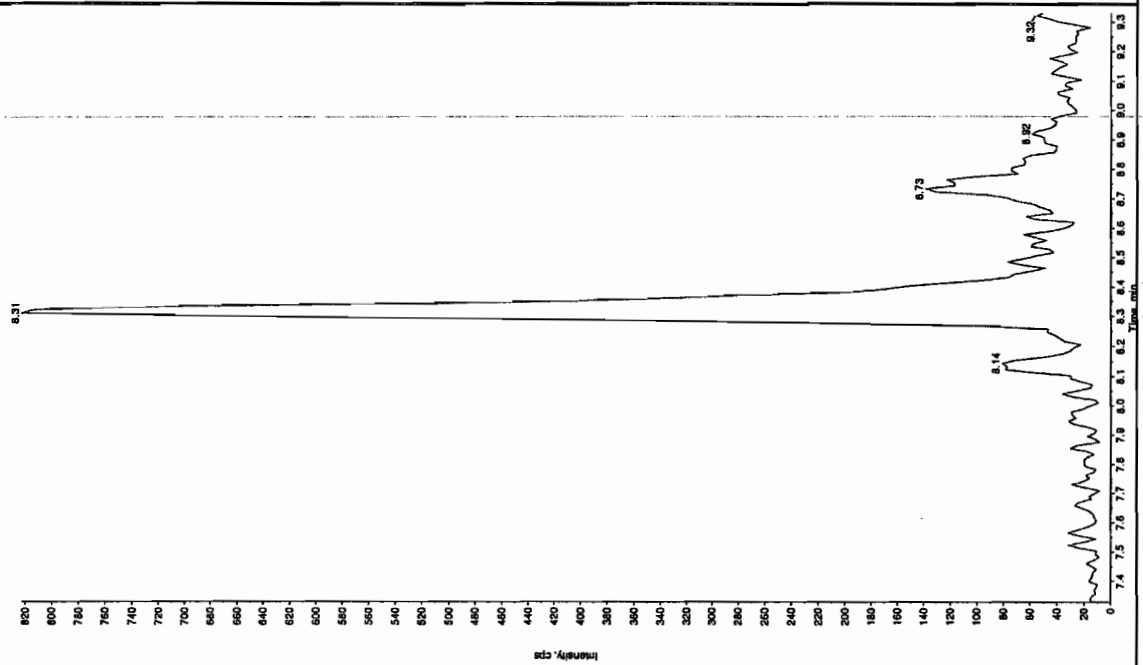
Sample Name: "XELK05" Sample ID: "11LEP" File: "EX503190038.wif"
 Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "166.046.0 amu"
 Comment: "LCMSEXP_B" Annotation: ""

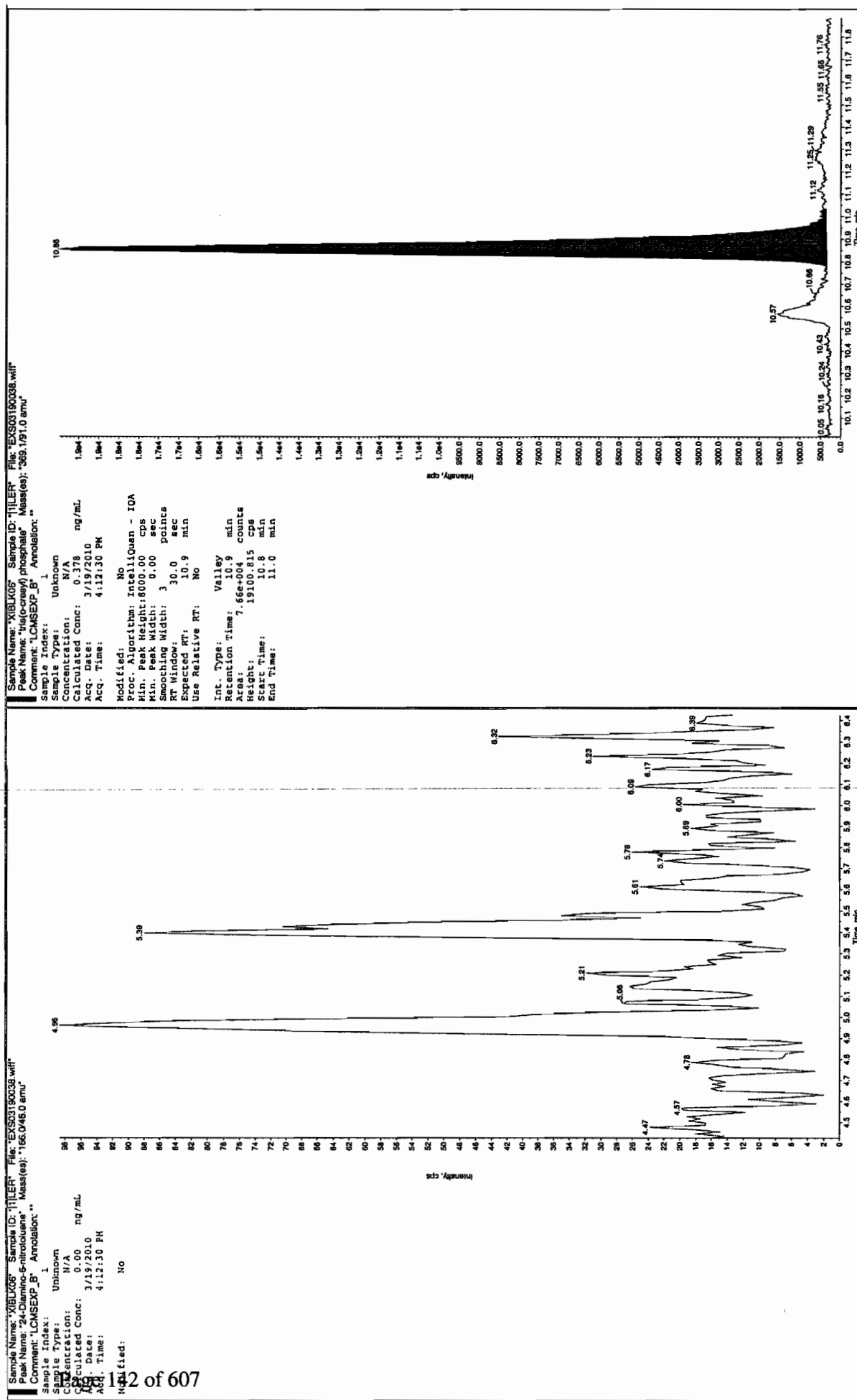
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 4:12:30 PM
 Modified: No



Sample Name: "XELK05" Sample ID: "11LEP" File: "EX503190038.wif"
 Peak Name: "24-Dinitrobenzene" 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: 3/19/2010
 Acq. Time: 4:12:30 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

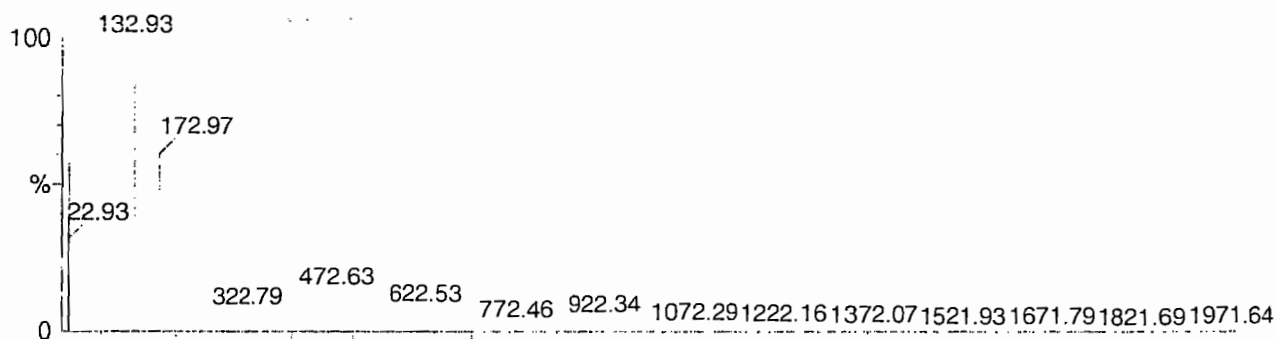
Calibration Report - MS1 Static

Page 1 of 1

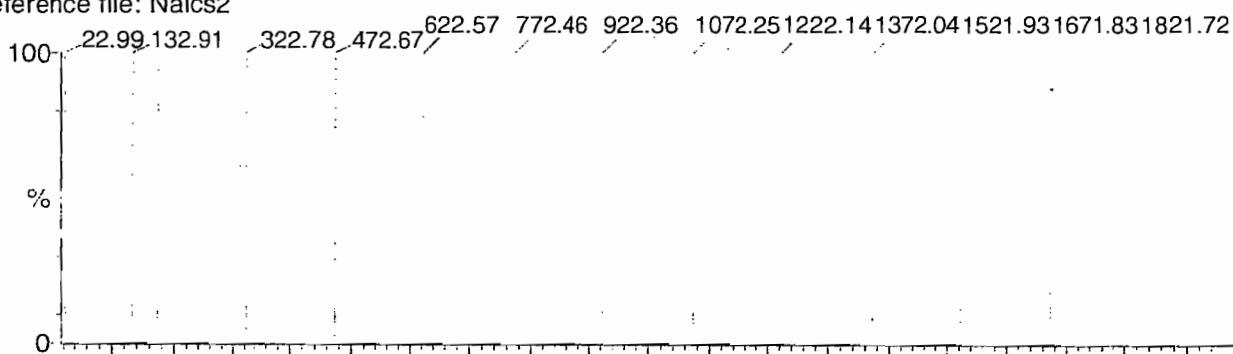
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

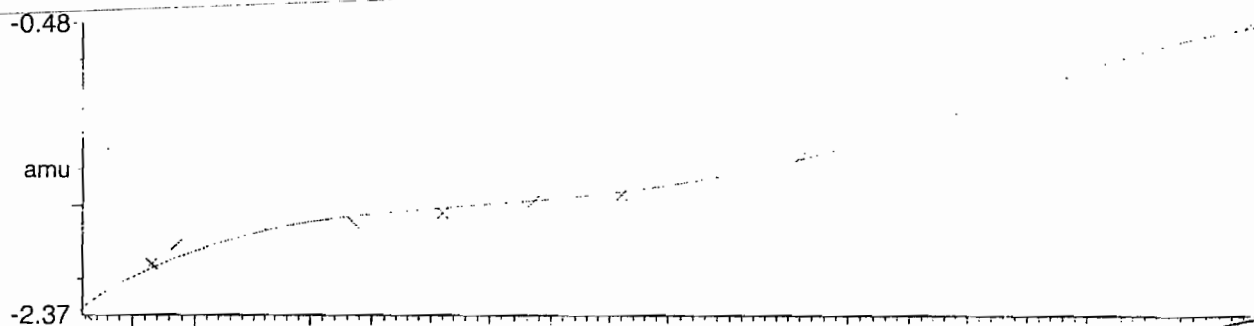
15 matches of 15 tested references



Reference file: Naics2

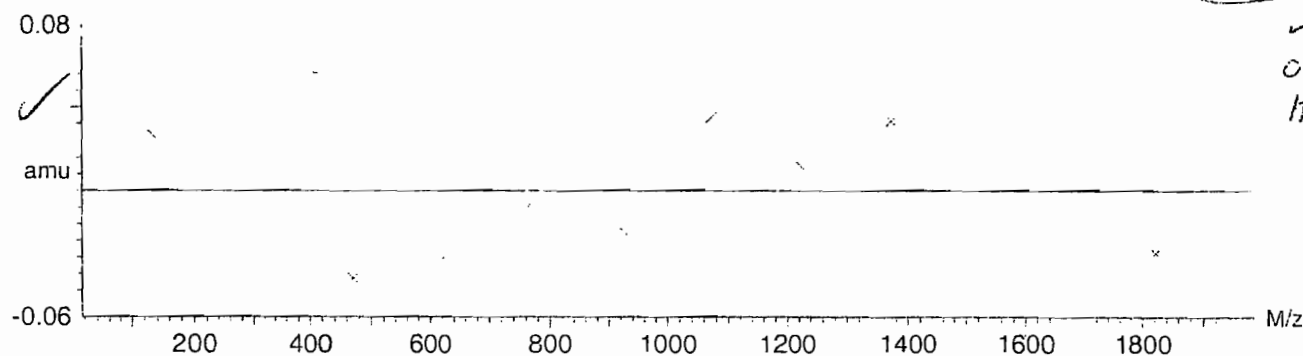


Mass difference (Raw - Ref mass)



Residuals

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



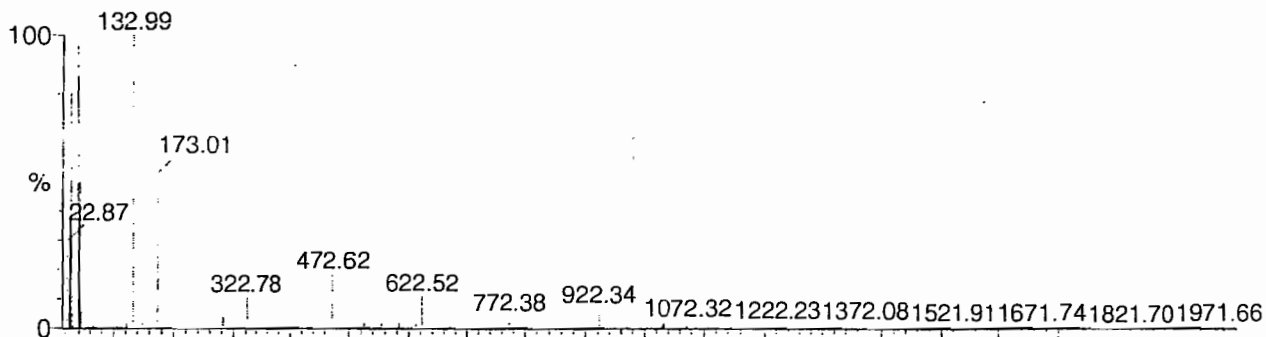
Calibration Report - MS1 Scanning

Page 1 of 1

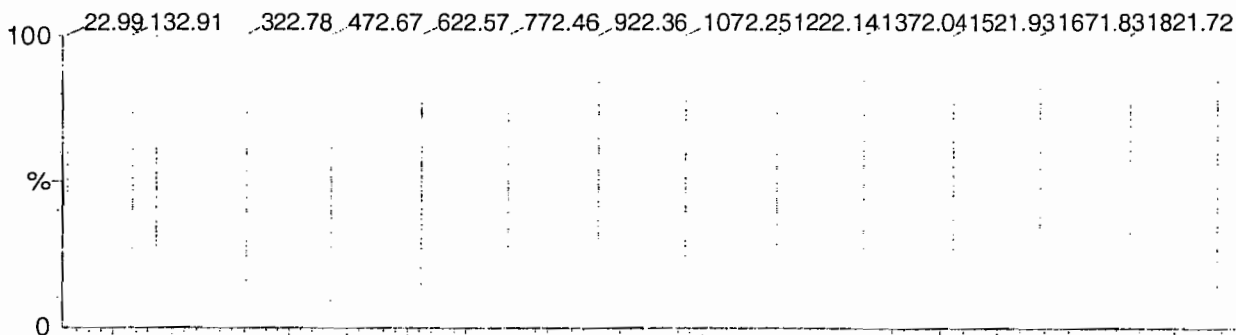
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

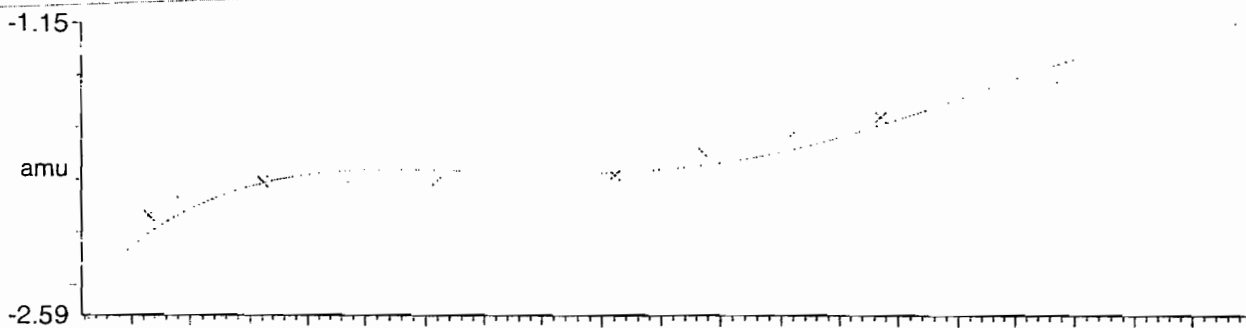
15 matches of 15 tested references



Reference file: Naics2

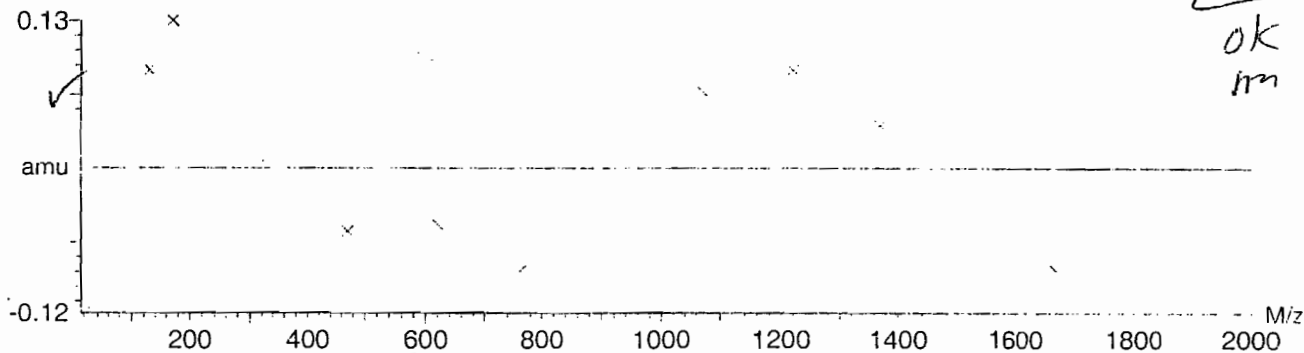


Mass difference (Raw - Ref mass)



Residuals

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



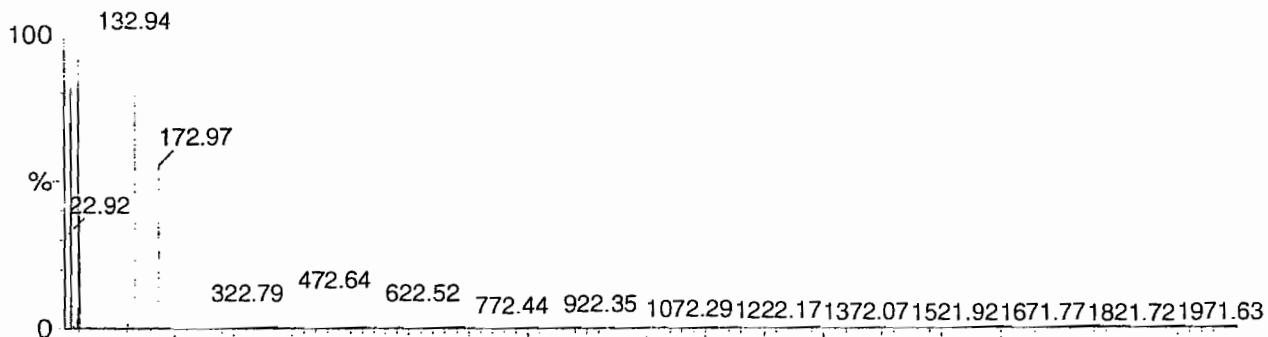
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

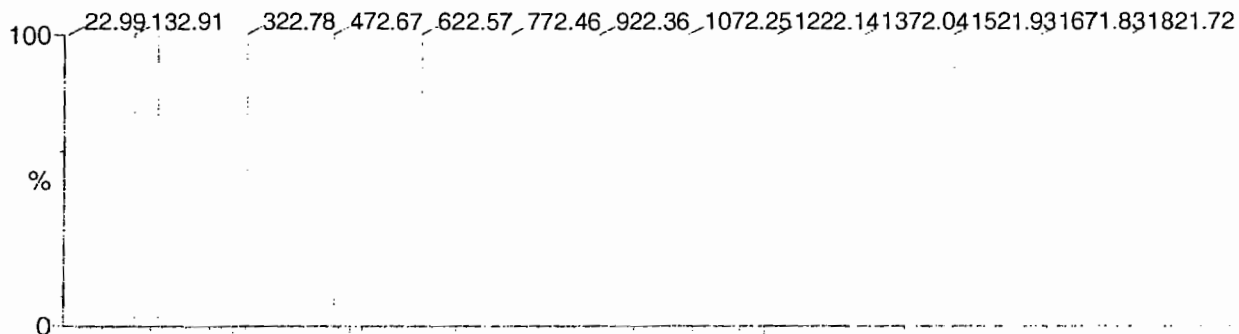
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

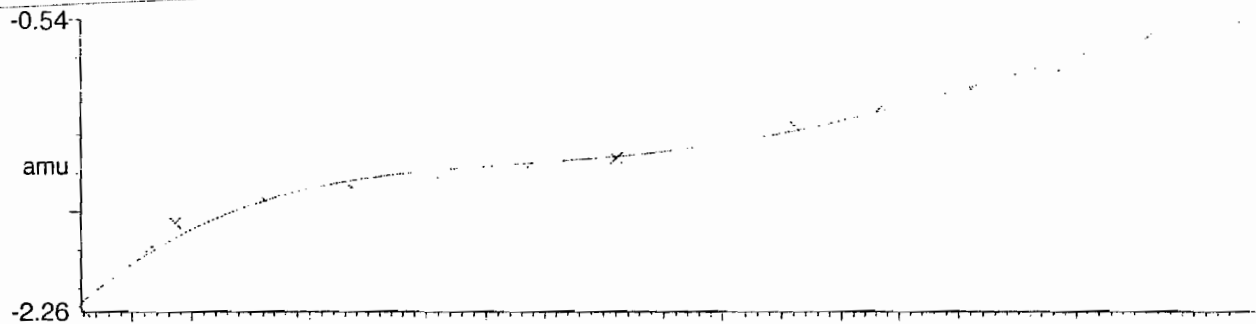
15 matches of 15 tested references



Reference file: Naics2

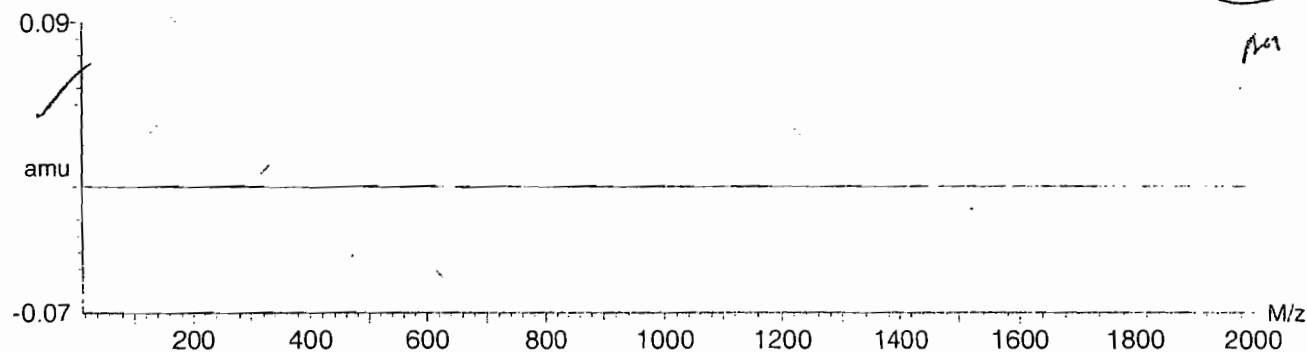


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.486639e-9 \pm 0.040487$



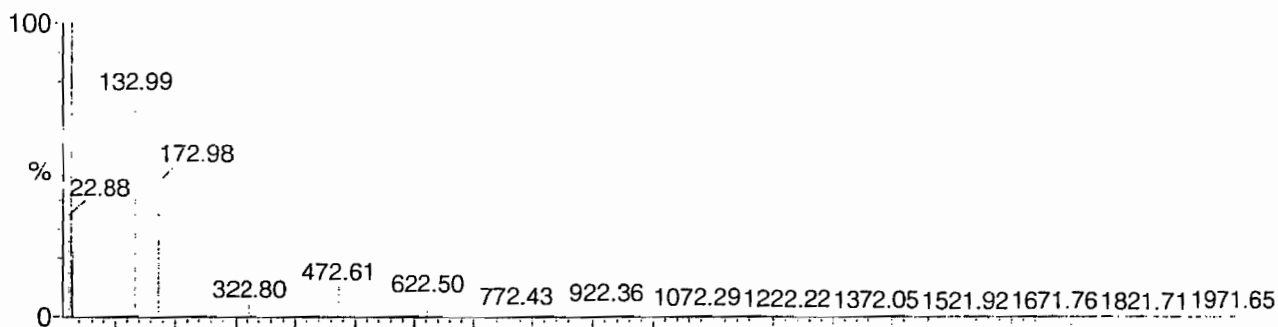
Calibration Report - MS2 Static

Page 1 of 1

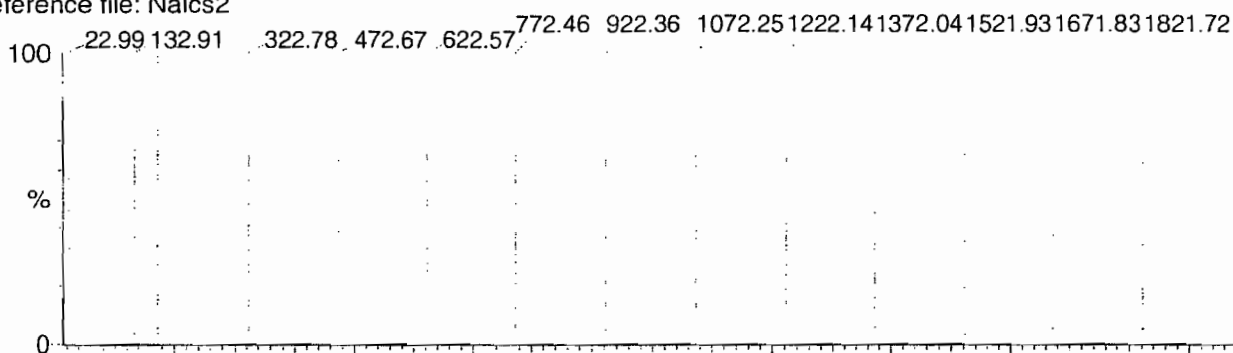
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

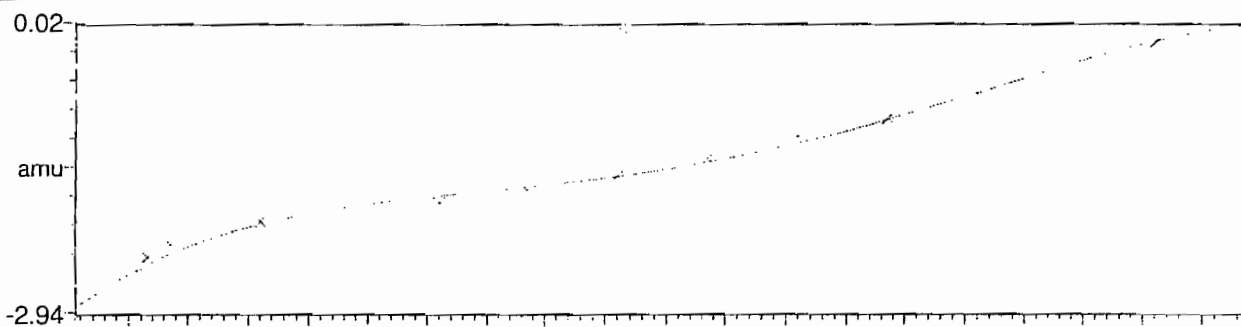
15 matches of 15 tested references



Reference file: Naics2

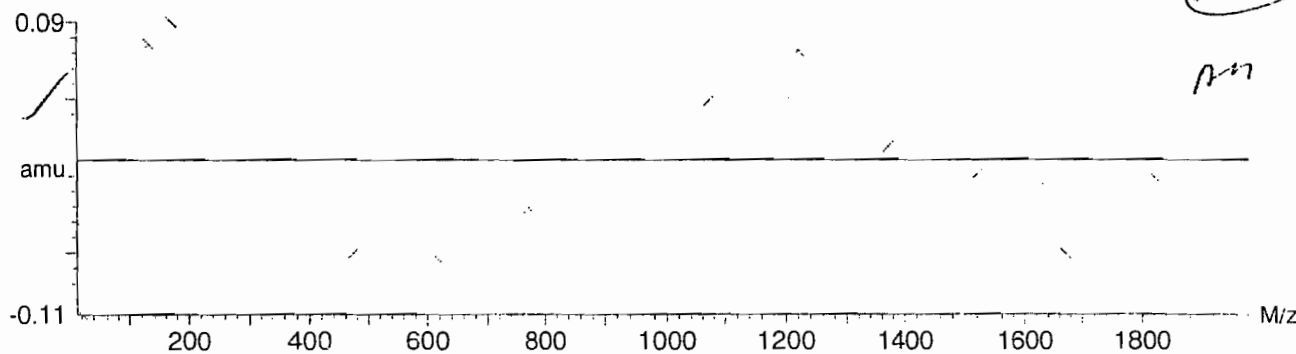


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.048910 \times 10^{-9} \pm 0.057803$



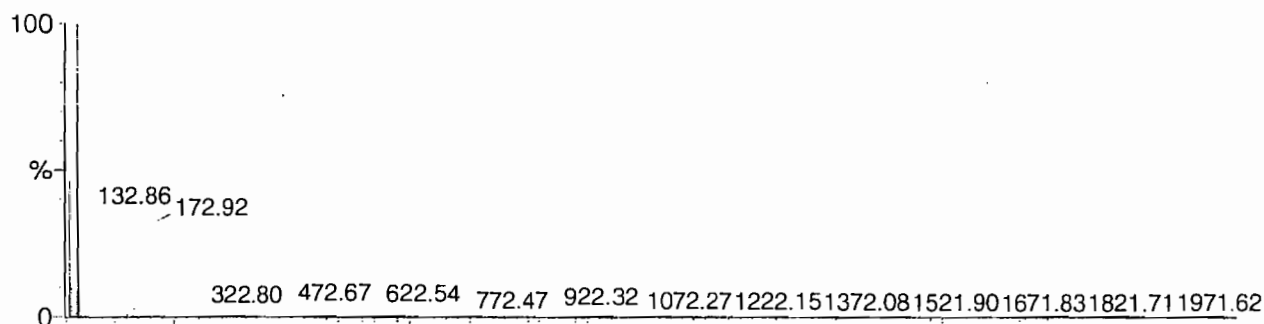
Calibration Report - MS2 Scanning

Page 1 of 1

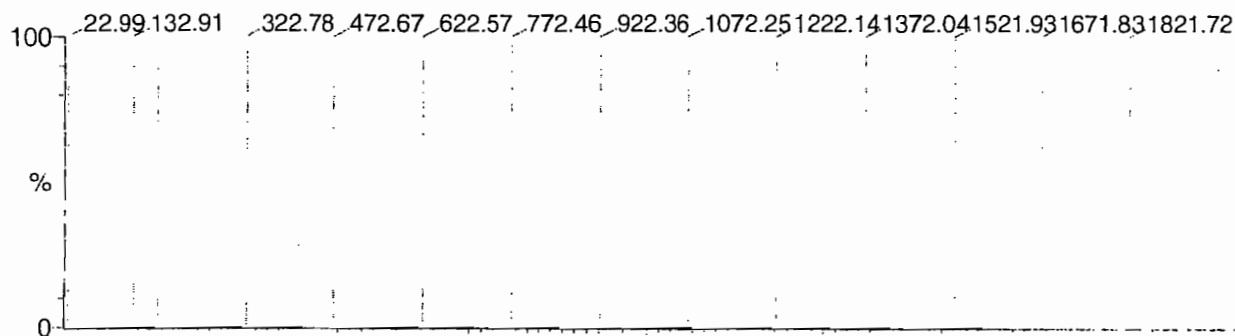
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

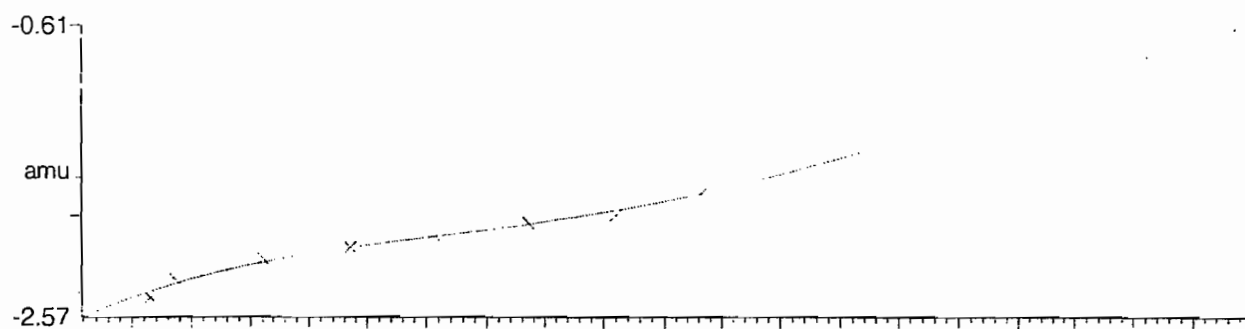
14 matches of 15 tested references



Reference file: Naics2

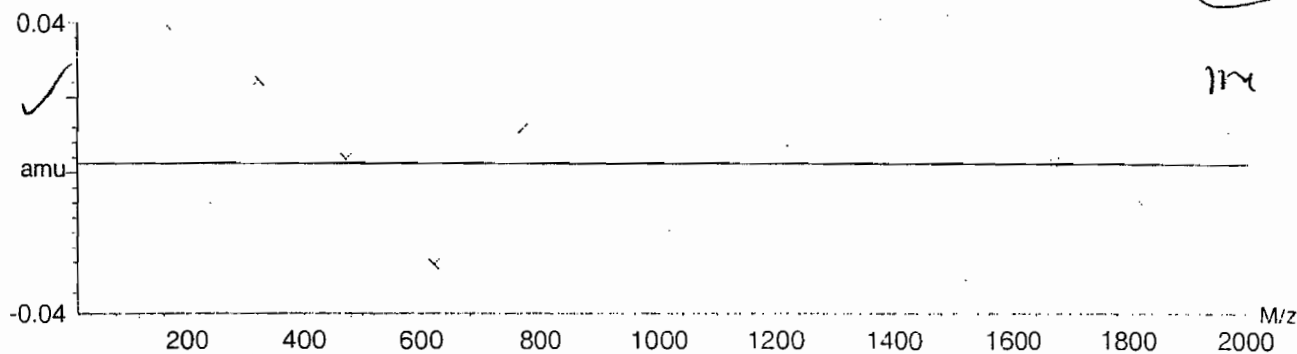


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $-2.623502e-9 \pm 0.025622$



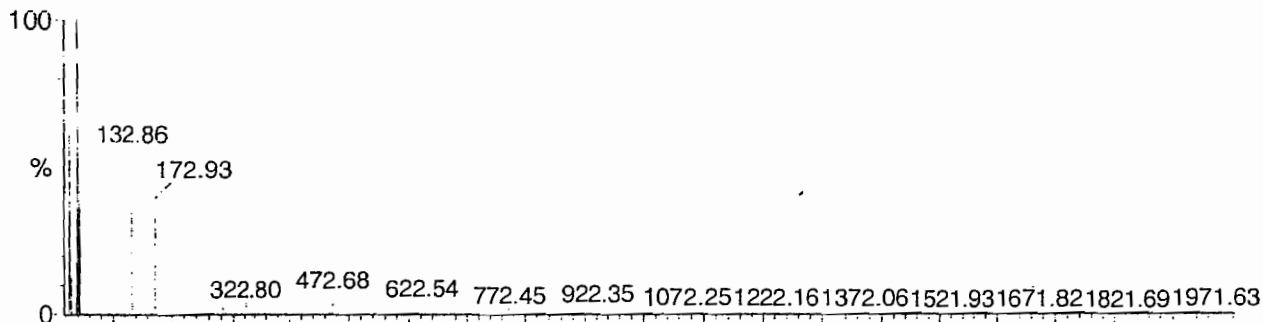
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

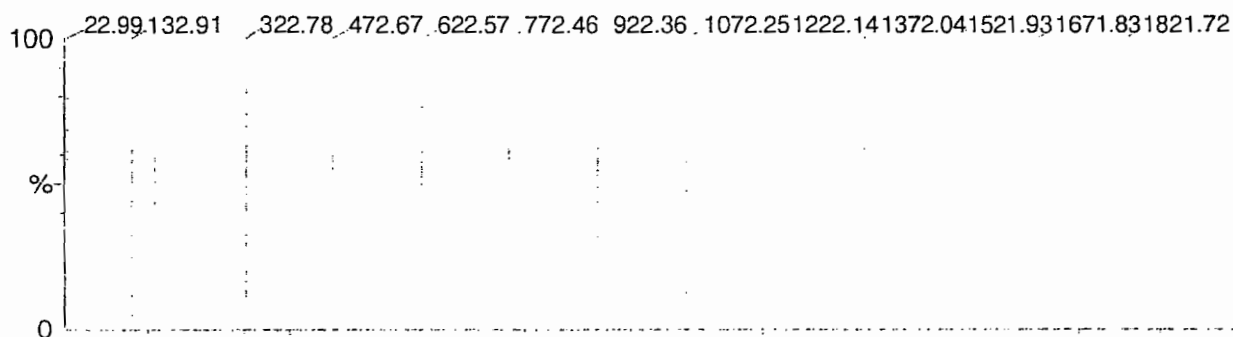
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

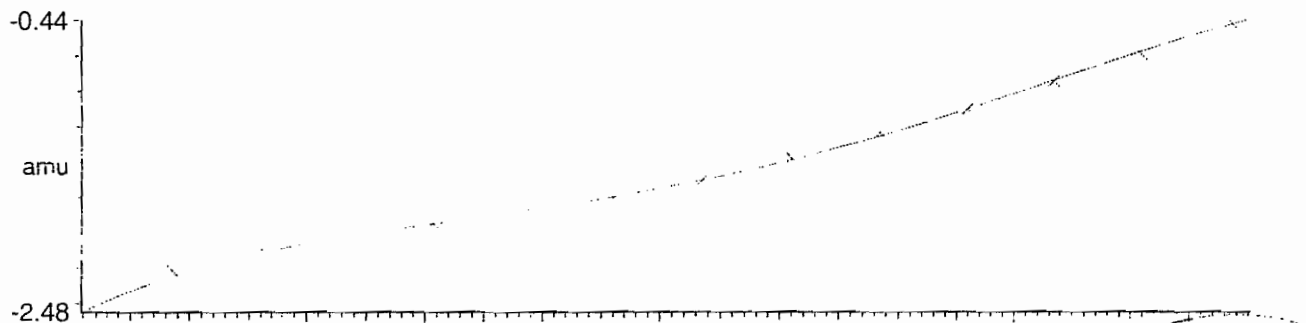
14 matches of 15 tested references



Reference file: Naics2

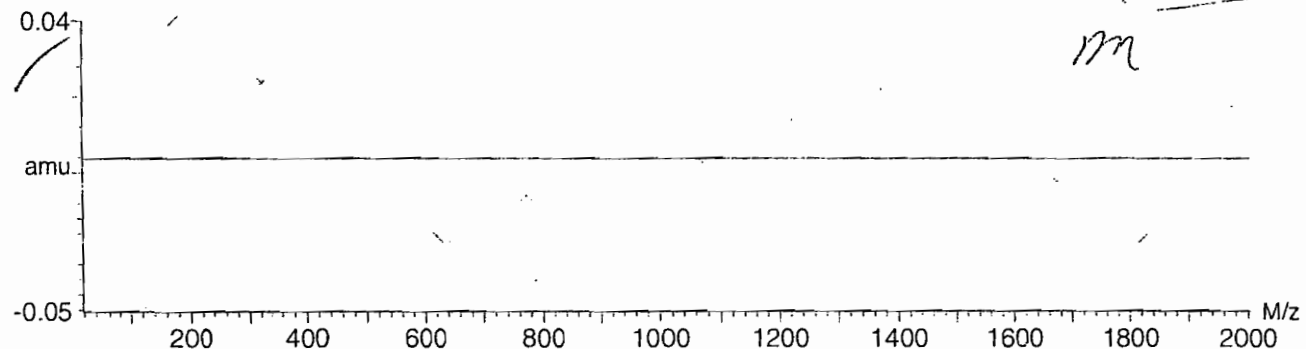


Mass difference (Raw - Ref.mass)



Residuals

Mean residual = $-6.785350 \times 10^{-9} \pm 0.023134$

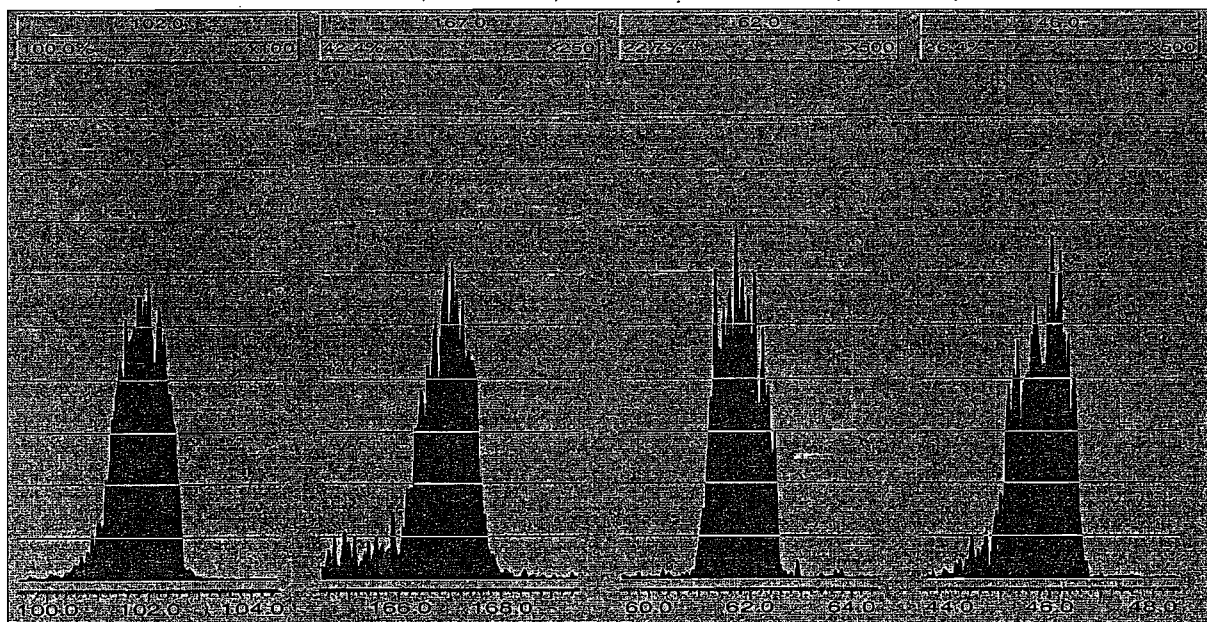


Quattro Micro Tune Parameters

Page 1

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

Printed : Fri Mar 19 12:20:57 2010

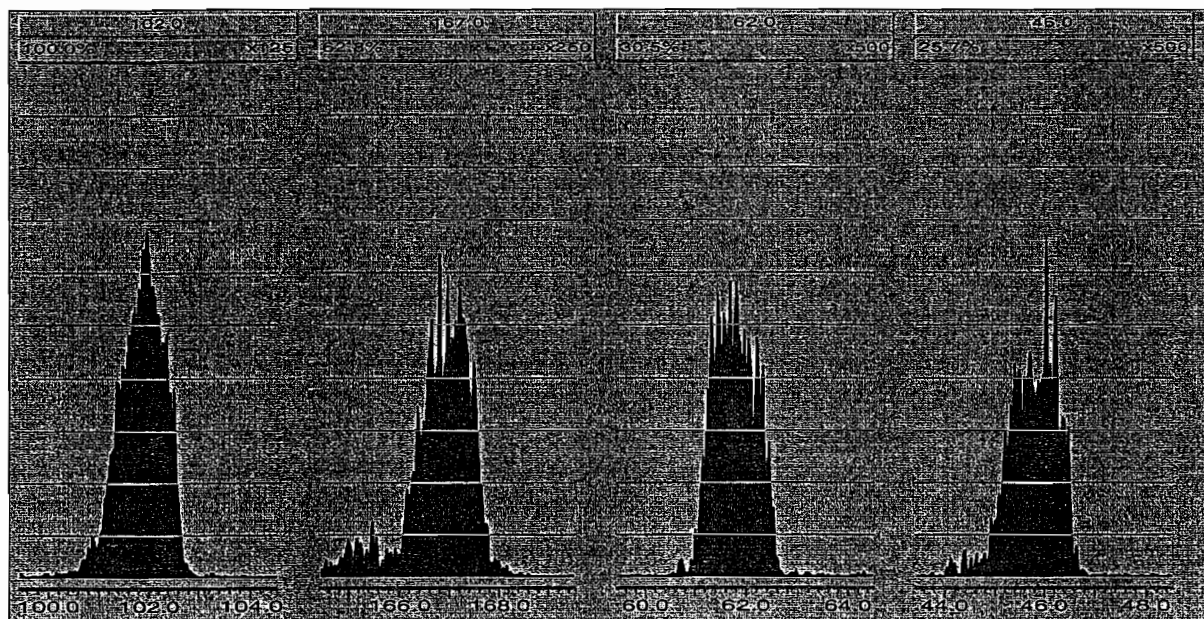


Quattro Micro Tune Parameters

Page 1

Parameter File: C:\MASSLYNXNEW_EXP.PRO\ACQUDB\explosives04.IPR

Printed : Tue Mar 23 09:07:10 2010



High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

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) #
			8208.162	12.135	46566.233	17.593
Upper Limit			10670.6106	12.635	60536.1029	18.093
Lower Limit			5745.7134	11.635	32596.3631	17.093
MB for batch 956051	20-mar-10 22:53	EXP0319062a	7041.4	12.137	43516.9	17.595
LCS for batch 956051	20-mar-10 23:23	EXP0319063a	7779.88	12.133	49148.8	17.587
RE15-10-8252	21-mar-10 07:15	EXP0319079a	6488.43	12.137	39669.3	17.59
RE15-10-8253	21-mar-10 07:44	EXP0319080a	6748.76	12.133	41016.6	17.588
RE15-10-8250	21-mar-10 08:14	EXP0319081a	6842.96	12.138	42707.7	17.592
RE15-10-8251	21-mar-10 08:43	EXP0319082a	6632.85	12.136	40276	17.572
RE15-10-8248	21-mar-10 09:13	EXP0319083a	6072.09	12.136	39290.5	17.594
RE15-10-8249	21-mar-10 09:42	EXP0319084a	6439.45	12.136	38435.2	17.573
	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			5504.273	12.072	34430.583	17.449
Upper Limit			7155.5549	12.572	44759.7579	17.949
Lower Limit			3852.9911	11.572	24101.4081	16.949
RE15-10-8247	23-mar-10 15:32	EXP0323014a	5369.26	12.067	31616	17.444
RE15-10-8254	23-mar-10 16:01	EXP0323015a	5563.94	12.067	34936.9	17.444
RE15-10-8268	23-mar-10 16:31	EXP0323016a	5709.86	12.067	34526	17.423
RE15-10-8264	23-mar-10 17:00	EXP0323017a	5834.45	12.067	32676.7	17.444

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: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319079a

Date Analyzed: 21-MAR-10 07:15

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

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 85 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319079a

Date: 21-Mar-2010

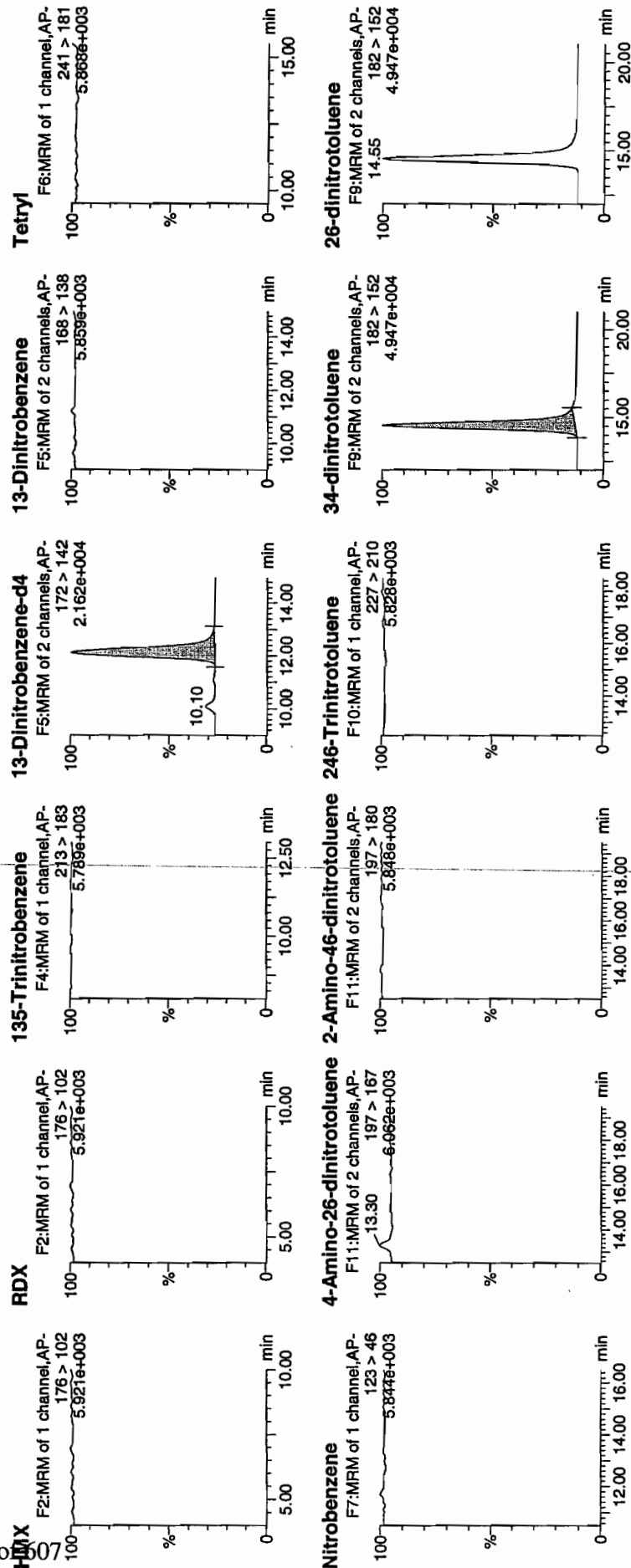
Time: 07:15:11

ID: 247565001

Val: 2:7,C

10/11
3/2/10

121
121



10/11
3/2/10

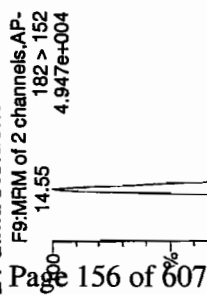
Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

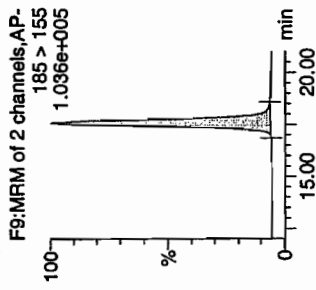
Printed: Sun Mar 21 12:22:16 2010, Page 86 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

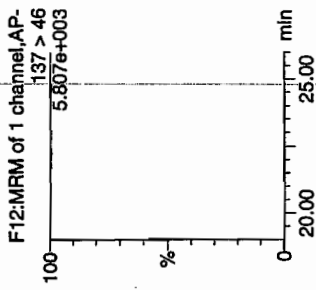
24-dinitrotoluene



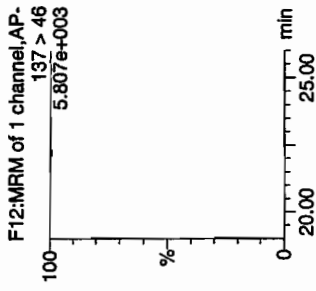
26-dinitrotoluene-d3



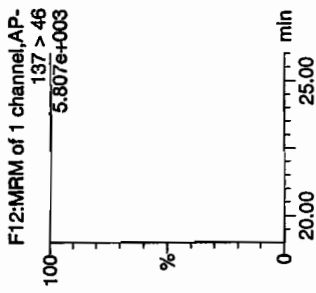
2-Nitrotoluene



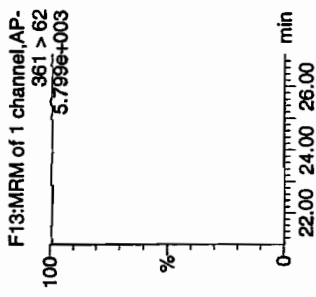
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Time	Mod Date	%Rec	%Dev	S/N
247565001	HMx	176 > 102		6488.432									
247565001	RDX	176 > 102		6488.432									
247565001	135-Trinitrobenzene	213 > 183		6488.432									
247565001	13-Dinitrobenzene-d4	172 > 142	12.14	6488.432		6488.432	6488.432	bb			79.0	-21.0	732.1
247565001	13-Dinitrobenzene	168 > 138		6488.432									
247565001	Tetryl	241 > 181		6488.432									
247565001	Nitrobenzene	123 > 46		39669.258									
247565001	4-Amino-26-dinitrotoluene	197 > 167		39669.258									
247565001	2-Amino-46-dinitrotoluene	197 > 180		39669.258									
247565001	246-Trinitrotoluene	227 > 210		39669.258									
247565001	34-dinitrotoluene	182 > 152	14.55	20532.533	39669.258	20532.533	258.797	bb			92.8	-7.2	1314.1
247565001	26-dinitrotoluene	182 > 152		39669.258									
247565001	24-dinitrotoluene	182 > 152		39669.258									
247565001	26-dinitrotoluene-d3	185 > 155	17.59	39669.258		39669.258	39669.258	bb			85.2	-14.8	2680.8
247565001	2-Nitrotoluene	137 > 46		39669.258									
247565001	4-Nitrotoluene	137 > 46		39669.258									
247565001	3-Nitrotoluene	137 > 46		39669.258									
247565001	PETN	361 > 62		39669.258									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8252

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565001

Sample Amount 2

Moisture: 2.8

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190018.wiff

Date Analyzed: 19-MAR-10 10:58

Units: ug/kg

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

*Concentration =

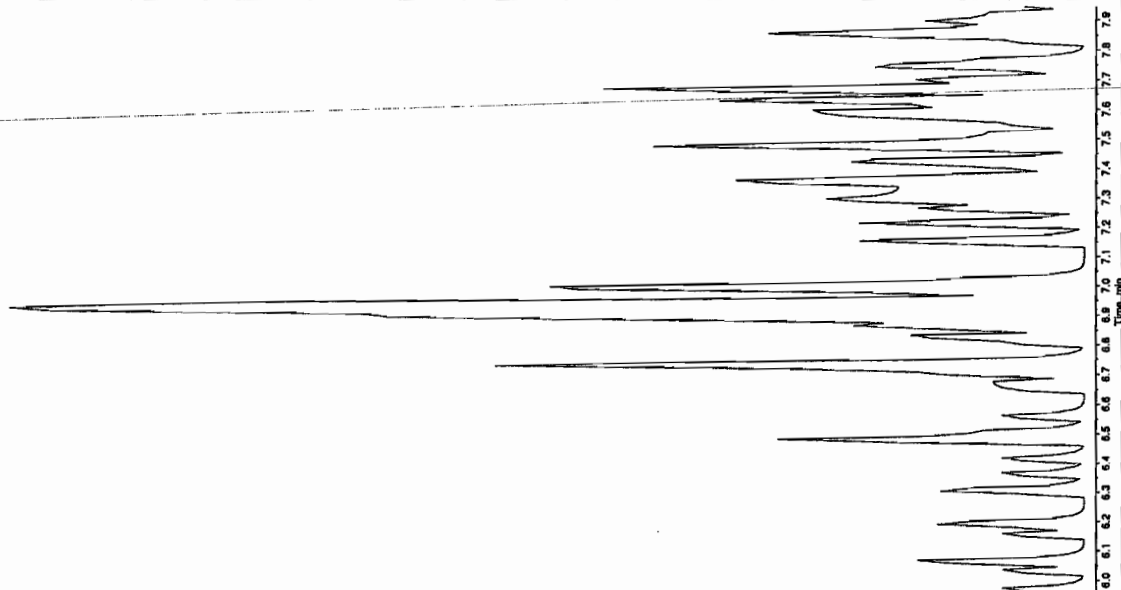
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

See 3/23/10

Sample Name: "247565001" Sample ID: "95605321ER" File: "EXS03190018.wif"
 Peak Name: "ATB" Mass(es): "257.2/204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 10:58:20 AM
 Modified: No

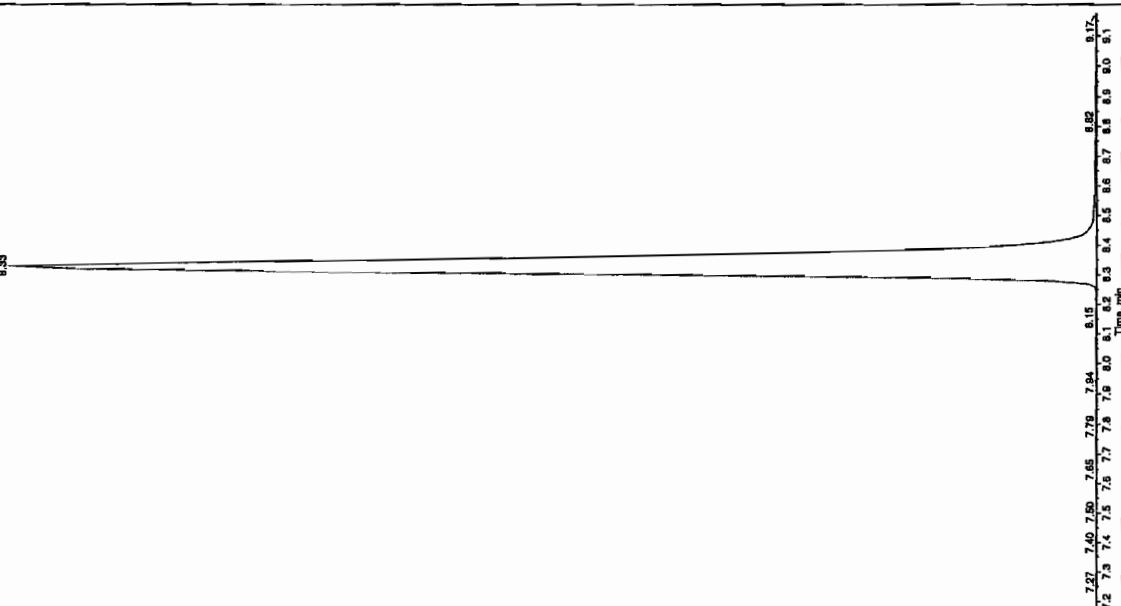
Intensity, cps



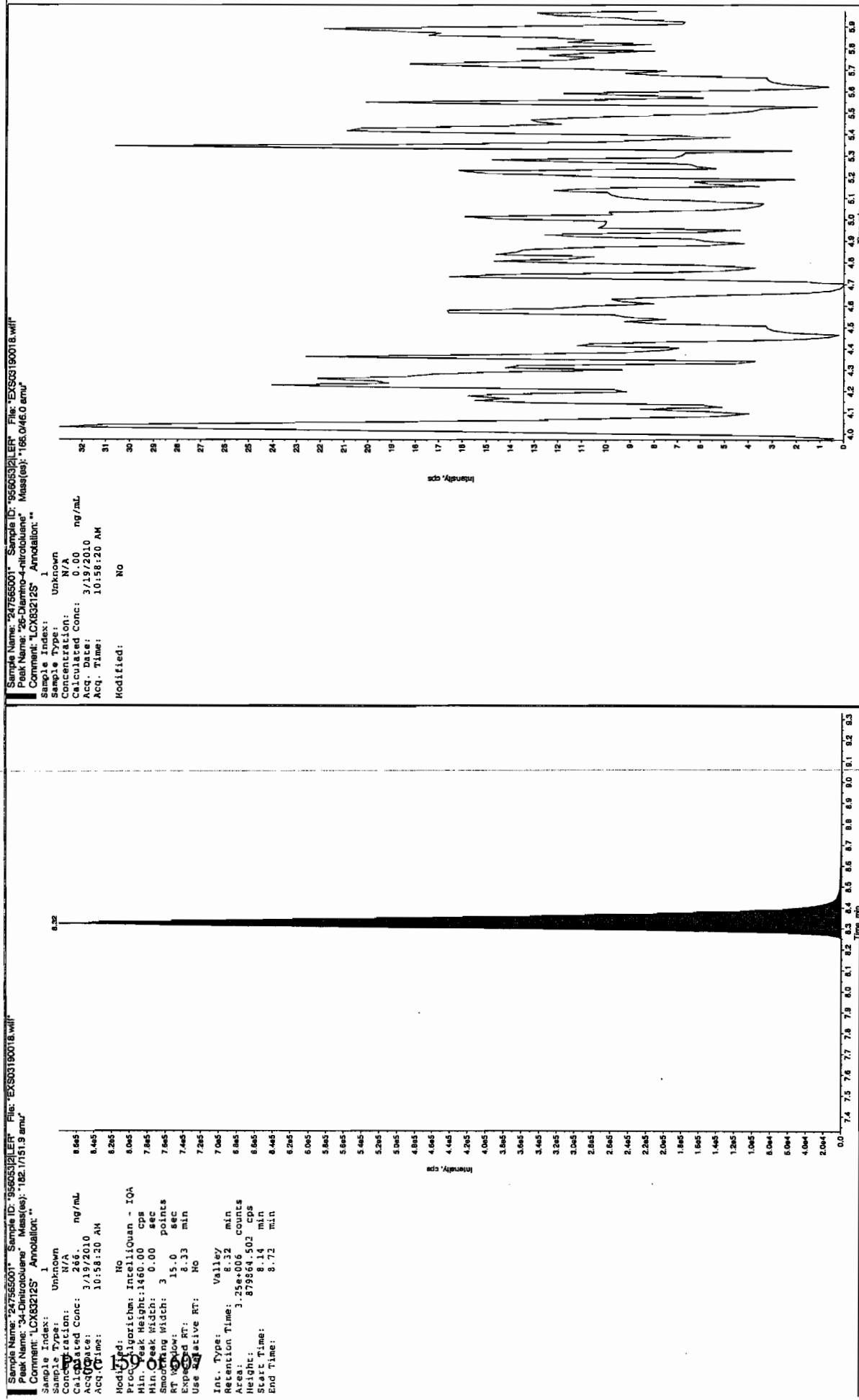
Sample Name: "247565001" Sample ID: "95605321ER" File: "EXS03190018.wif"
 Peak Name: "3S-Dinitroaniline" Mass(es): "182.0/46.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 10:58:20 AM
 Modified: No

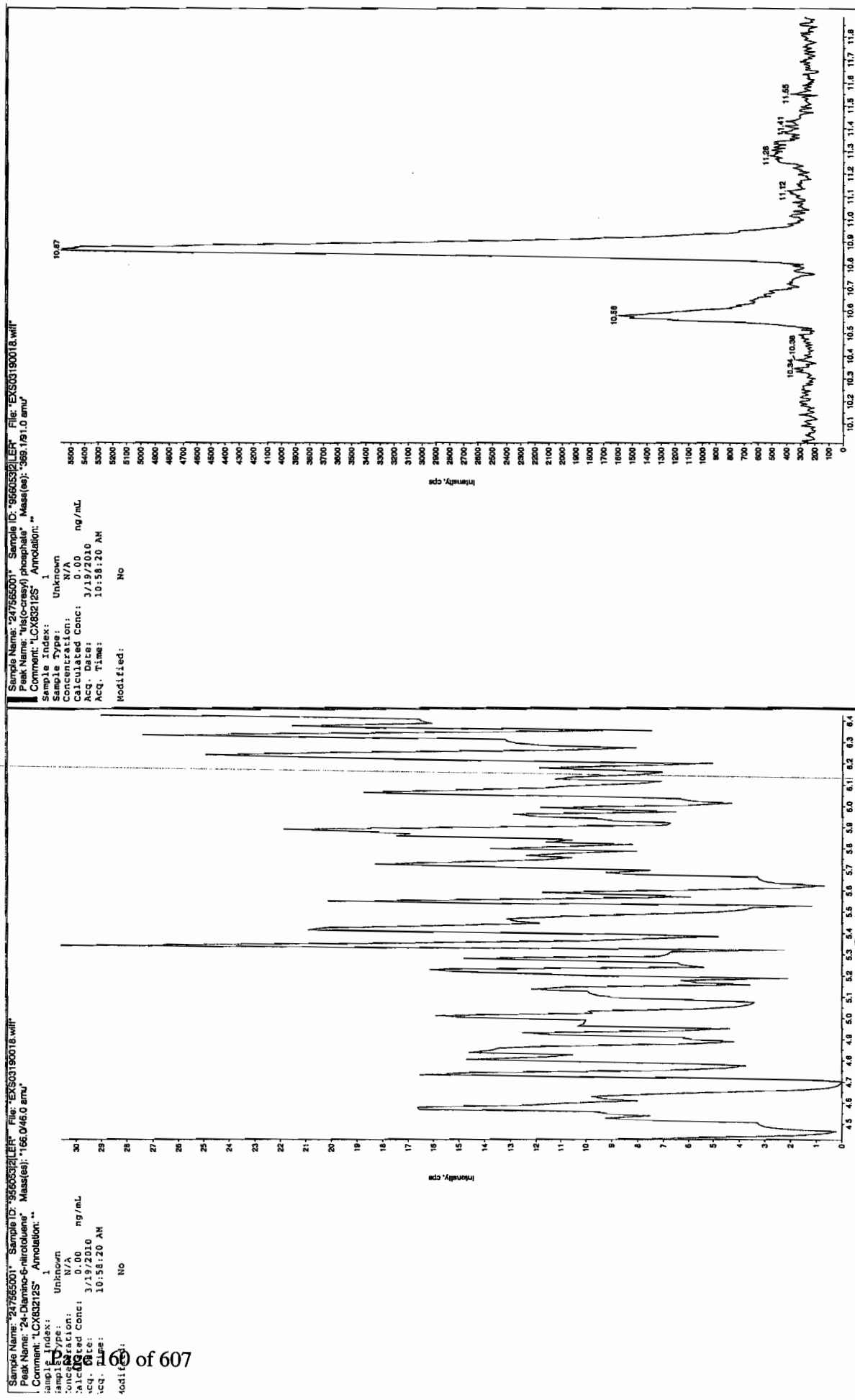
Intensity, cps



See 3/24/10



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



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319080a

Date Analyzed: 21-MAR-10 07:44

Units: ug/kg

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

*Concentration =

Instrument Value X Concentrated Extract Volume X Dilution Factor
Sample Amount

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 87 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319080a

Date: 21-Mar-2010

Time: 07:44:41

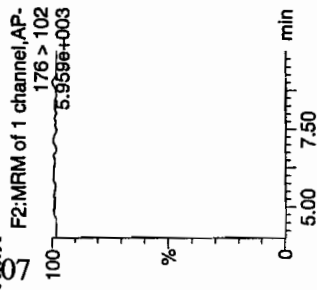
ID: 247565002

Vial: 2:7,D

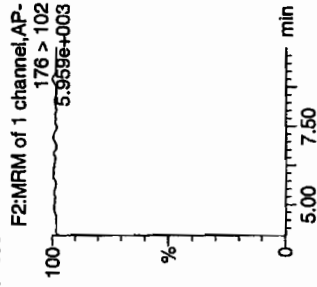
3/21/10

LA NW 956053 / 8002 / 2

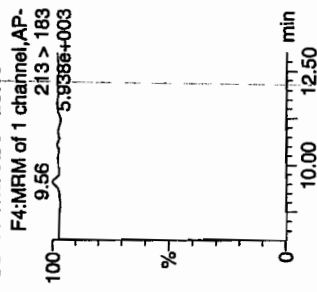
HMX



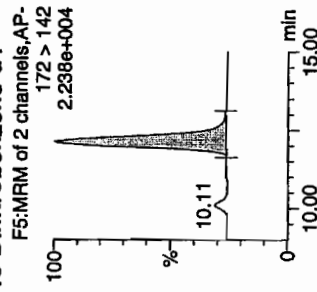
RDX



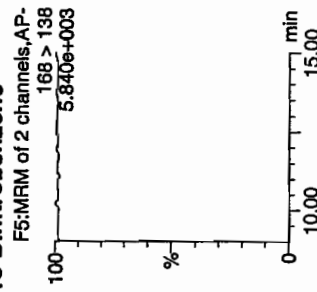
135-Trinitrobenzene



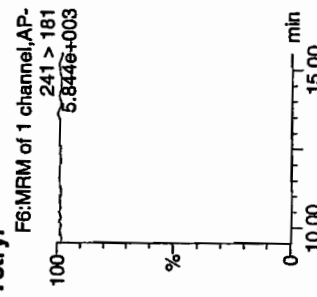
13-Dinitrobenzene-d4



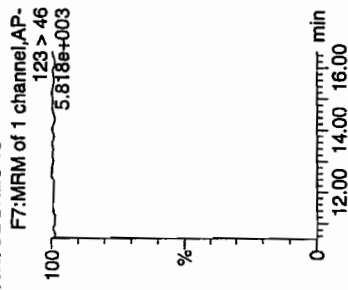
13-Dinitrobenzene



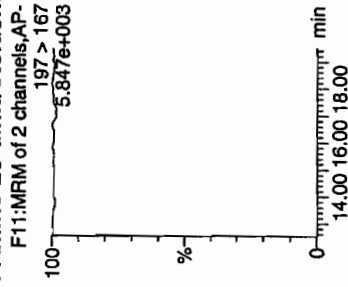
Tetryl



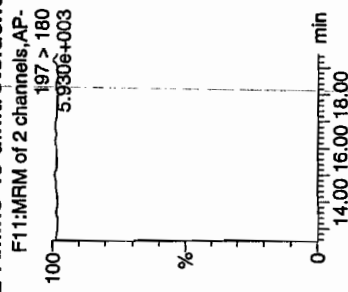
Nitrobenzene



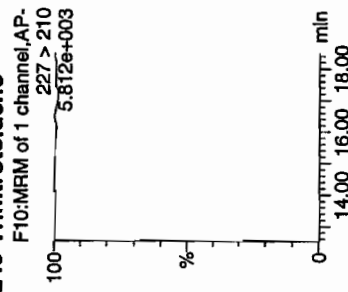
4-Amino-26-dinitrotoluene



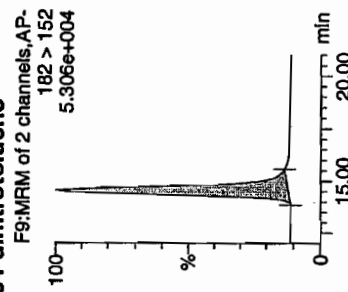
2-Amino-46-dinitrotoluene



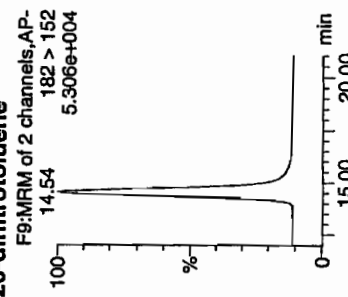
246-Trinitrotoluene



34-dinitrotoluene

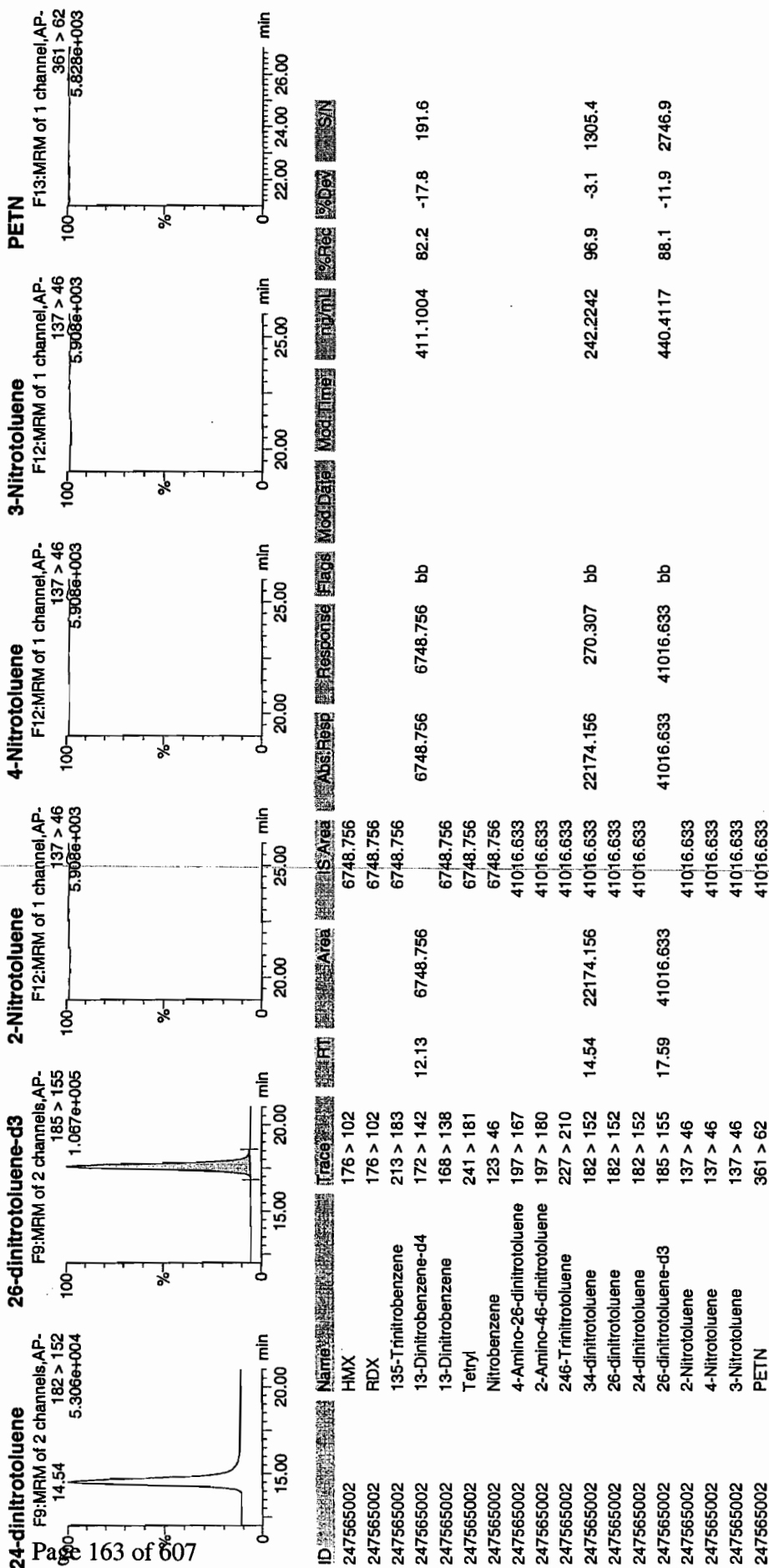


26-dinitrotoluene



Handwritten signature/initials.

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8253

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565002

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190019.wiff

Date Analyzed: 19-MAR-10 11:14

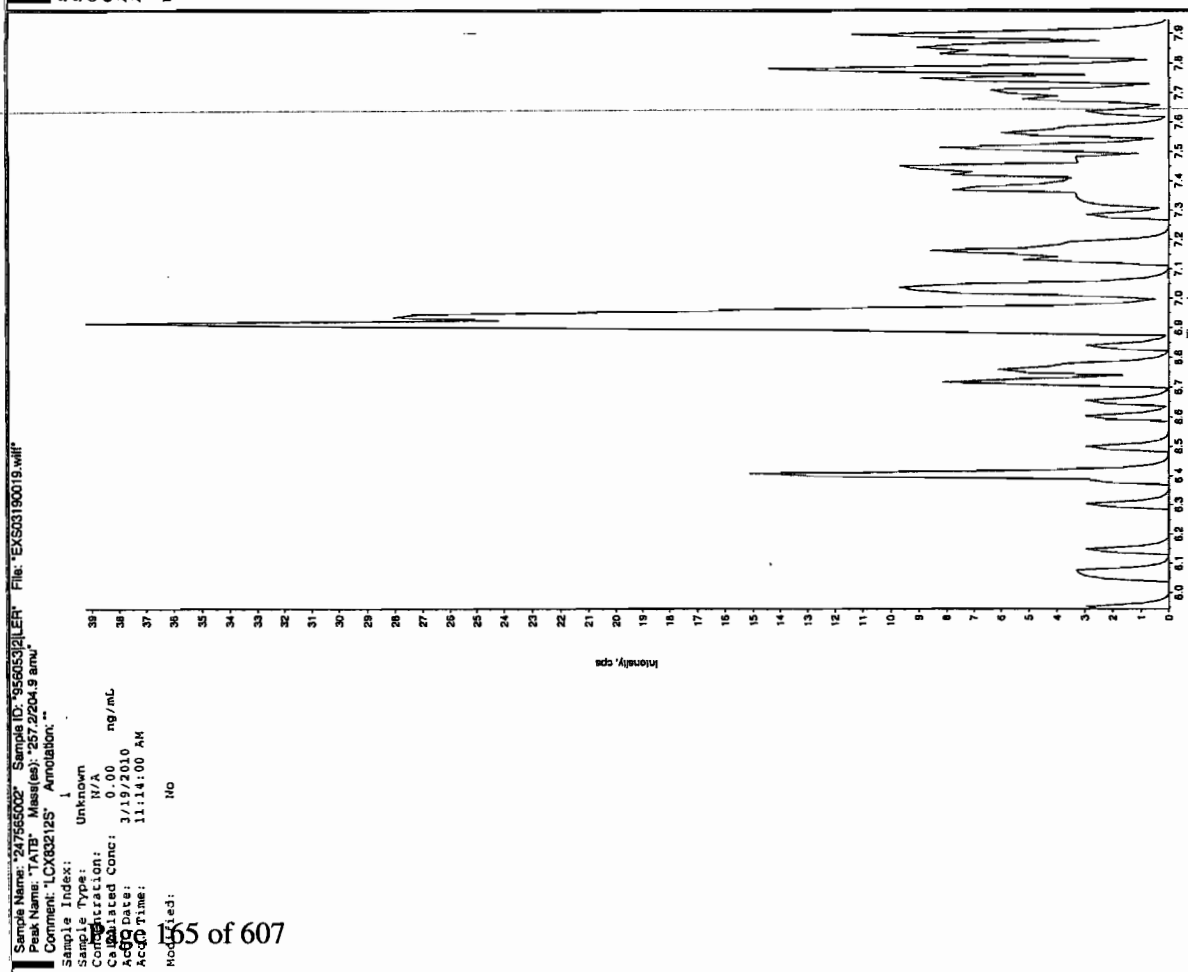
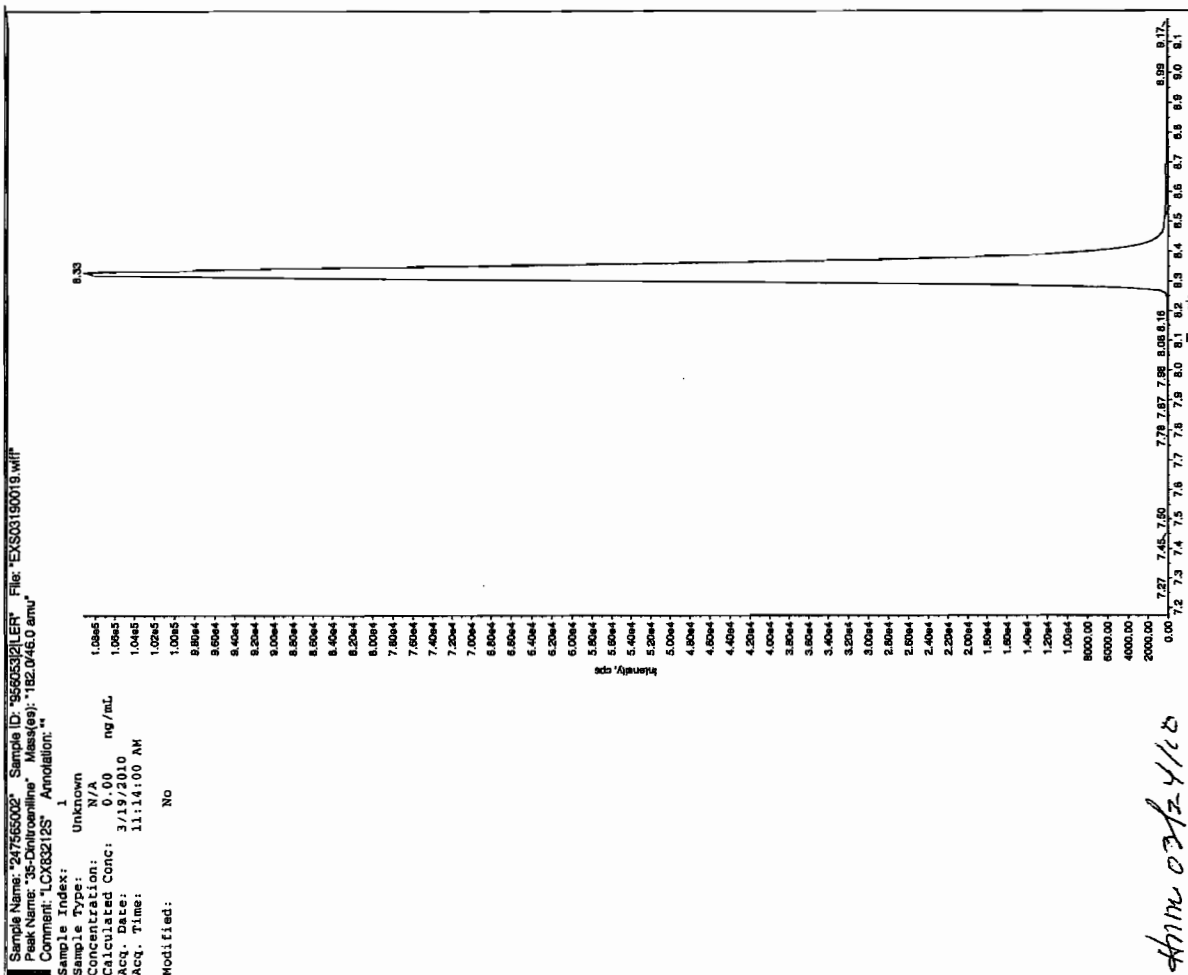
Units: ug/kg

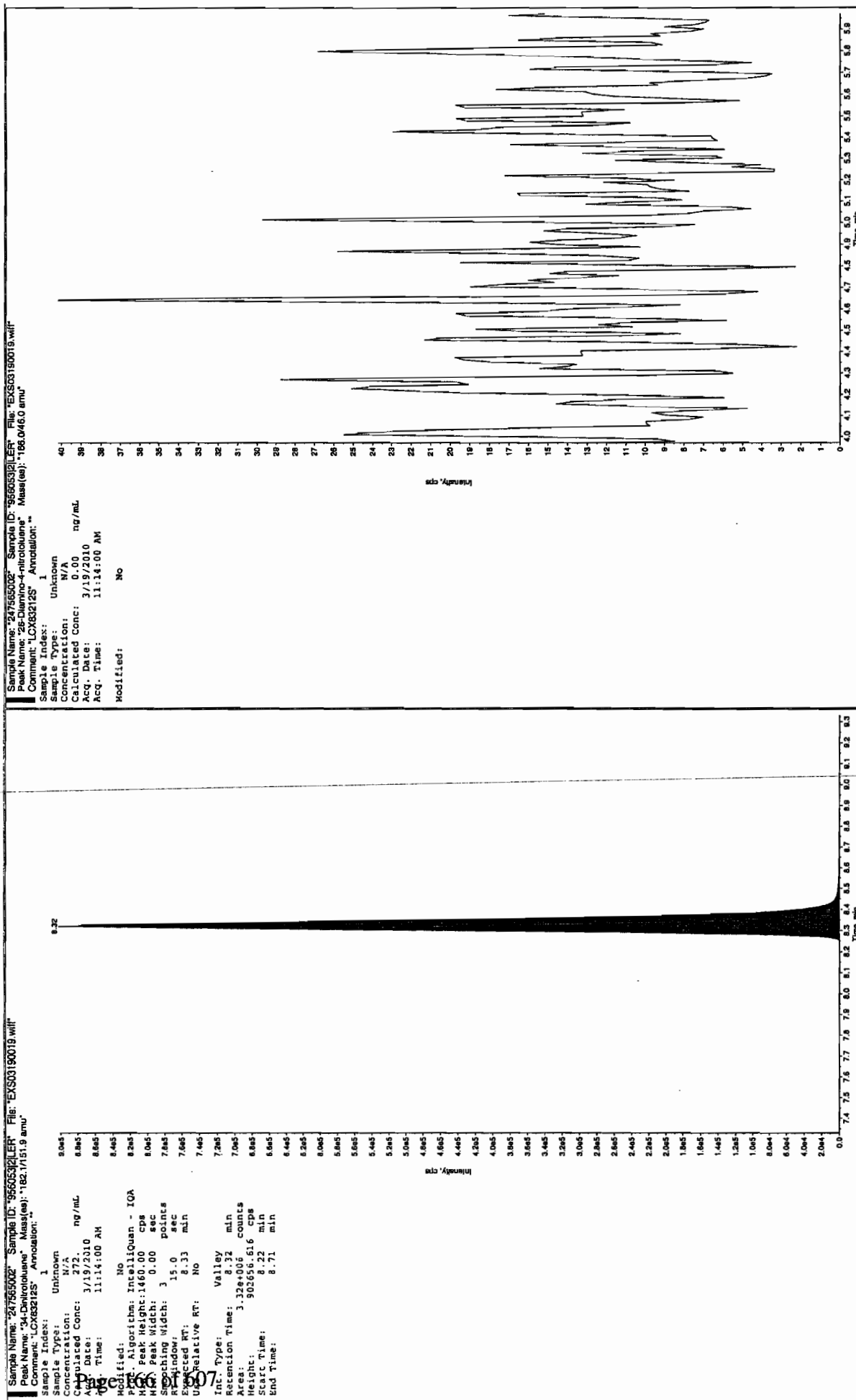
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

*Concentration =

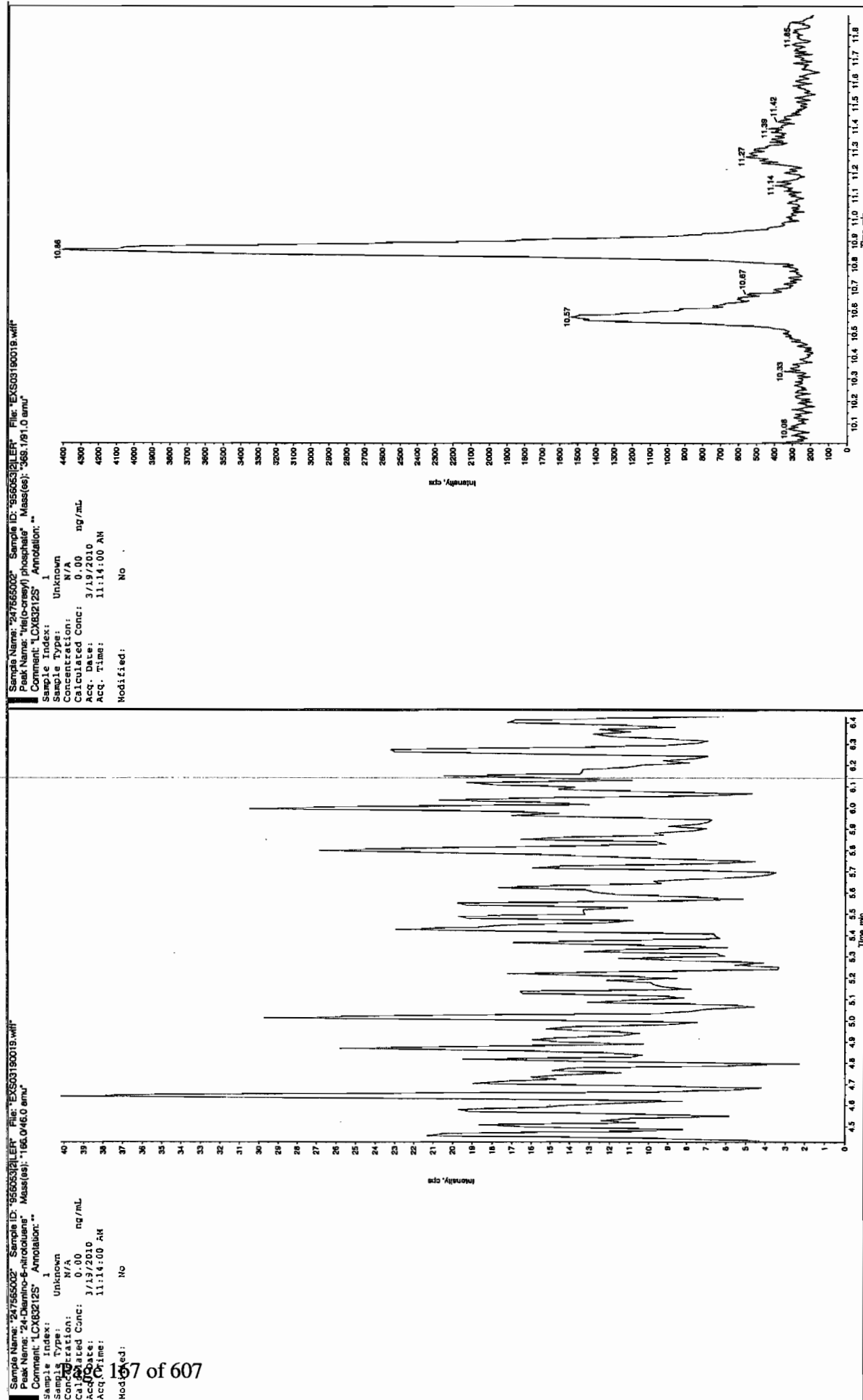
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Run 312310





'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: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319081a

Date Analyzed: 21-MAR-10 08:14

Units: ug/kg

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

*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qid, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319081a

Date: 21-Mar-2010

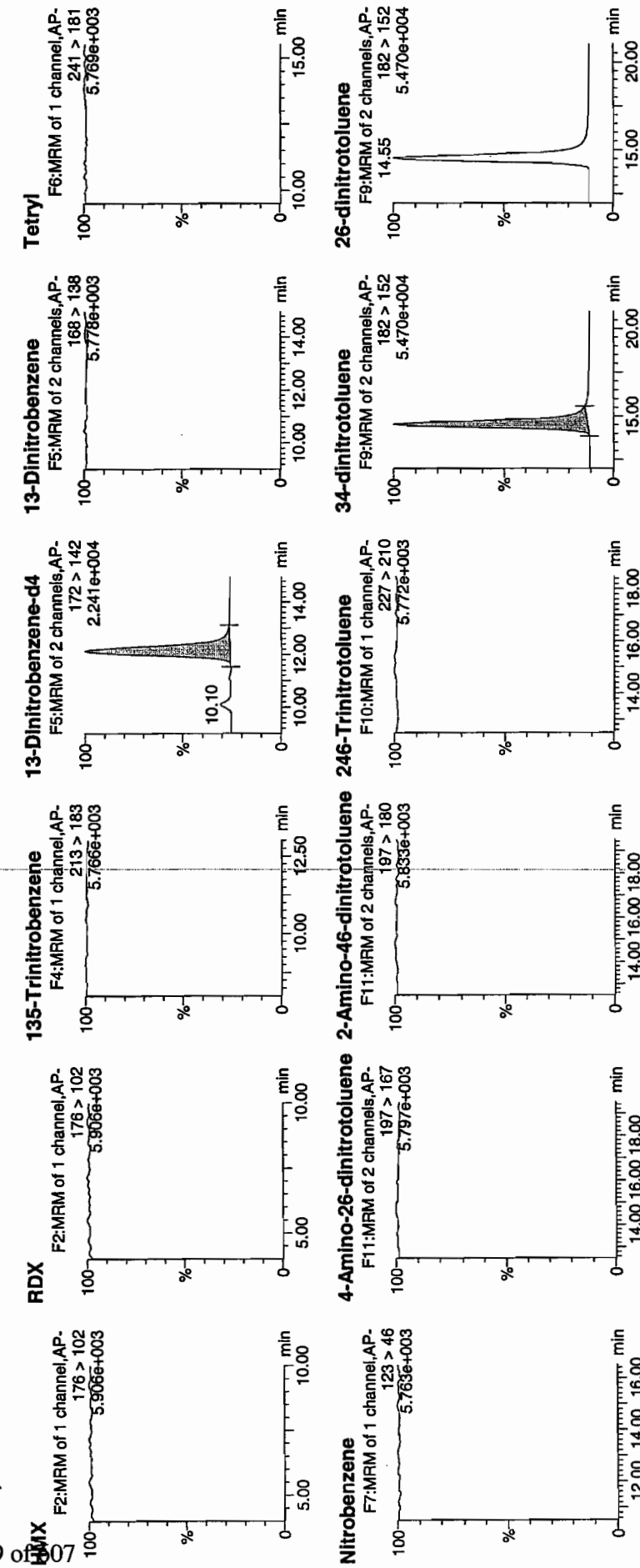
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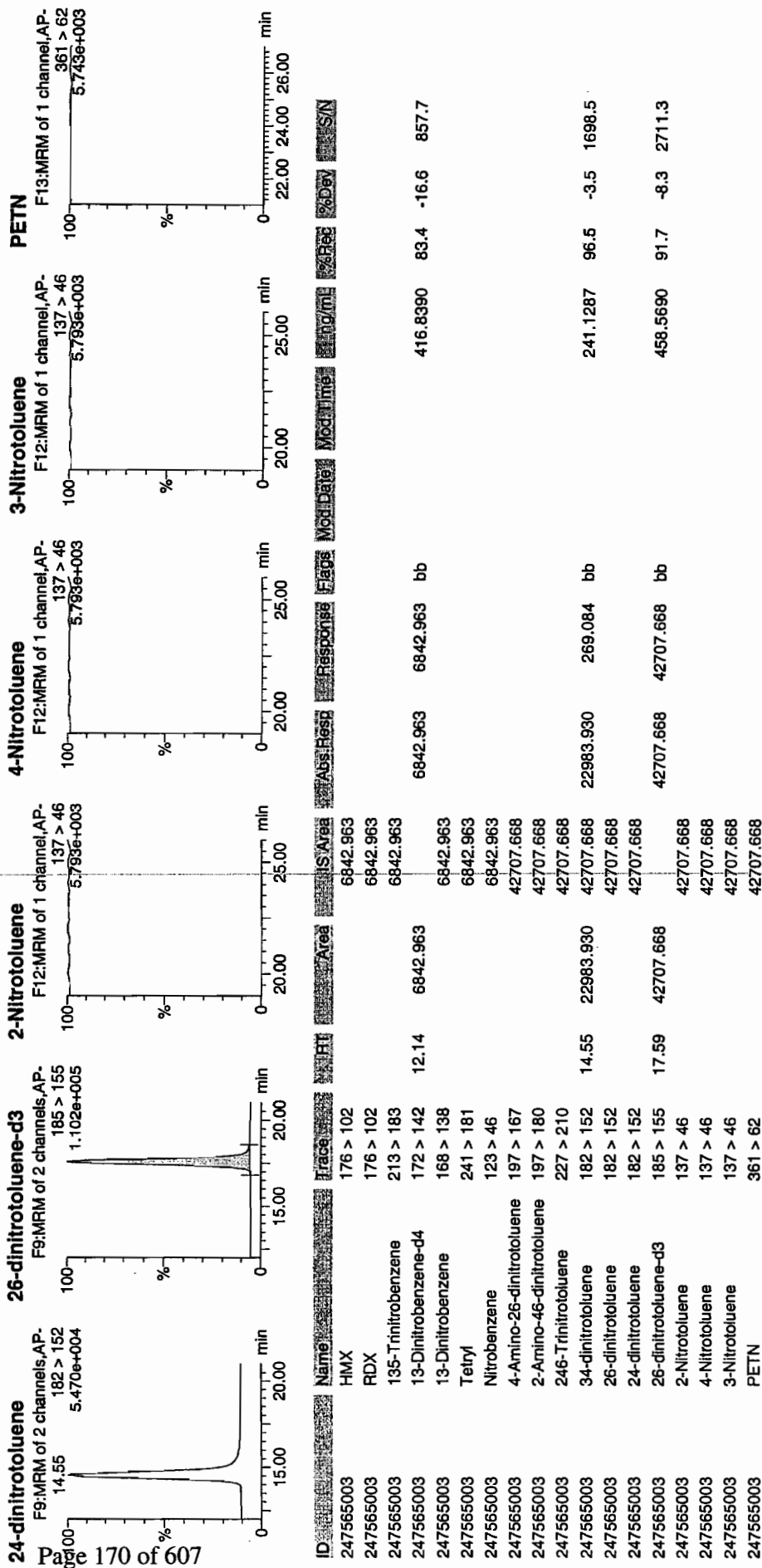
447
3/21/10

RAW 956053 / 80323 / 2-1



447
3/21/10

Dataset: C:\MASSLYN\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8250

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565003

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190020.wiff

Date Analyzed: 19-MAR-10 11:29

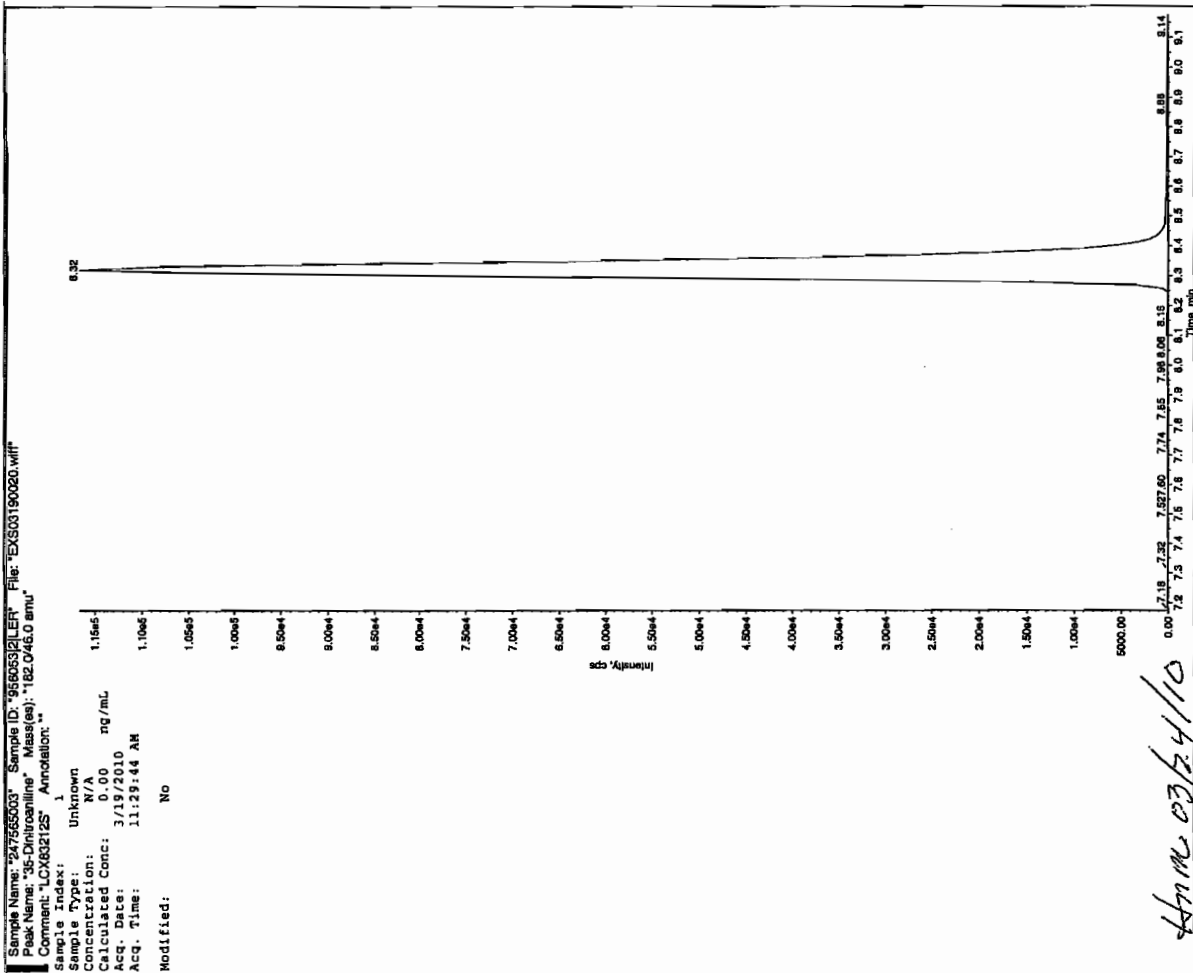
Units: ug/kg

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

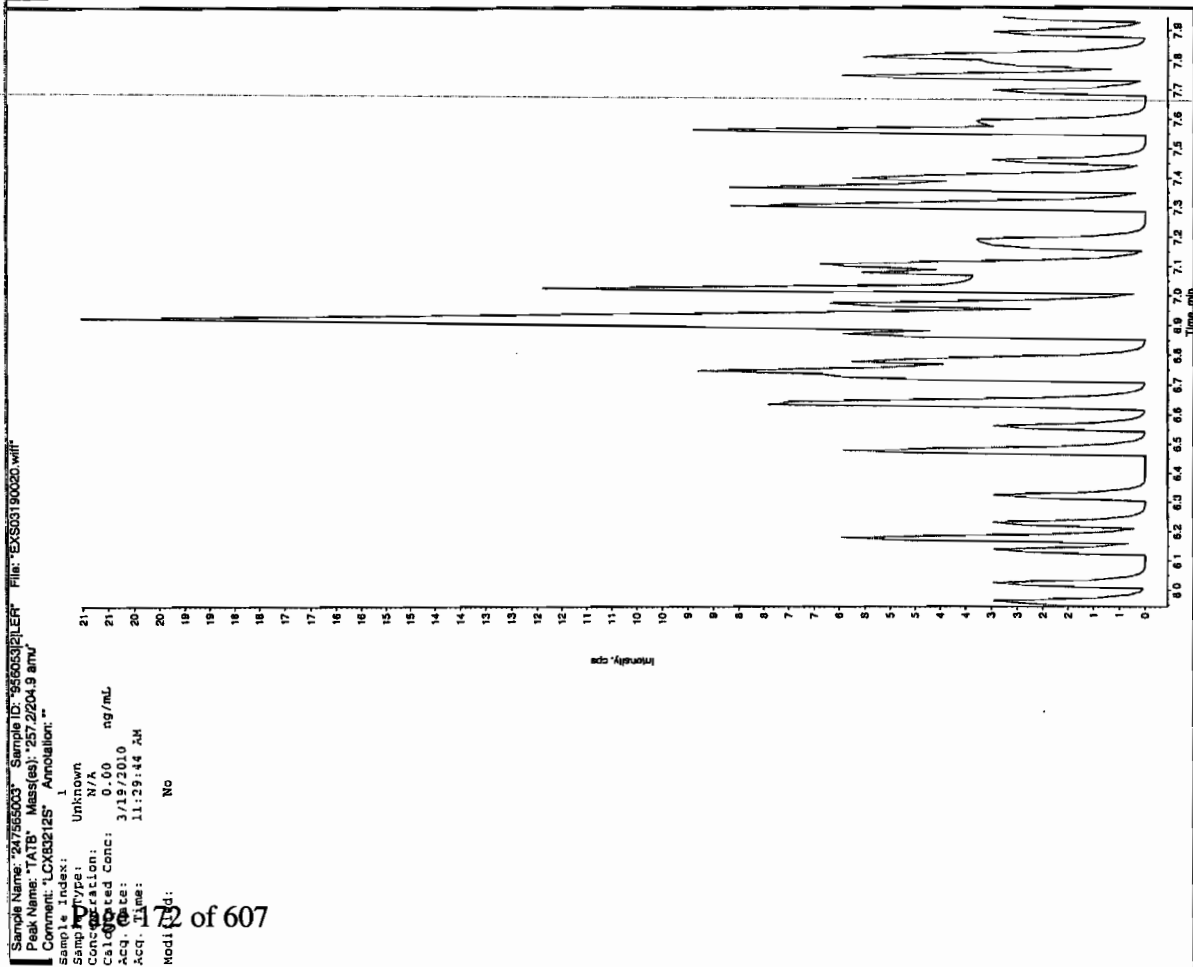
*Concentration =

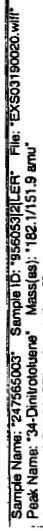
Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amoun		

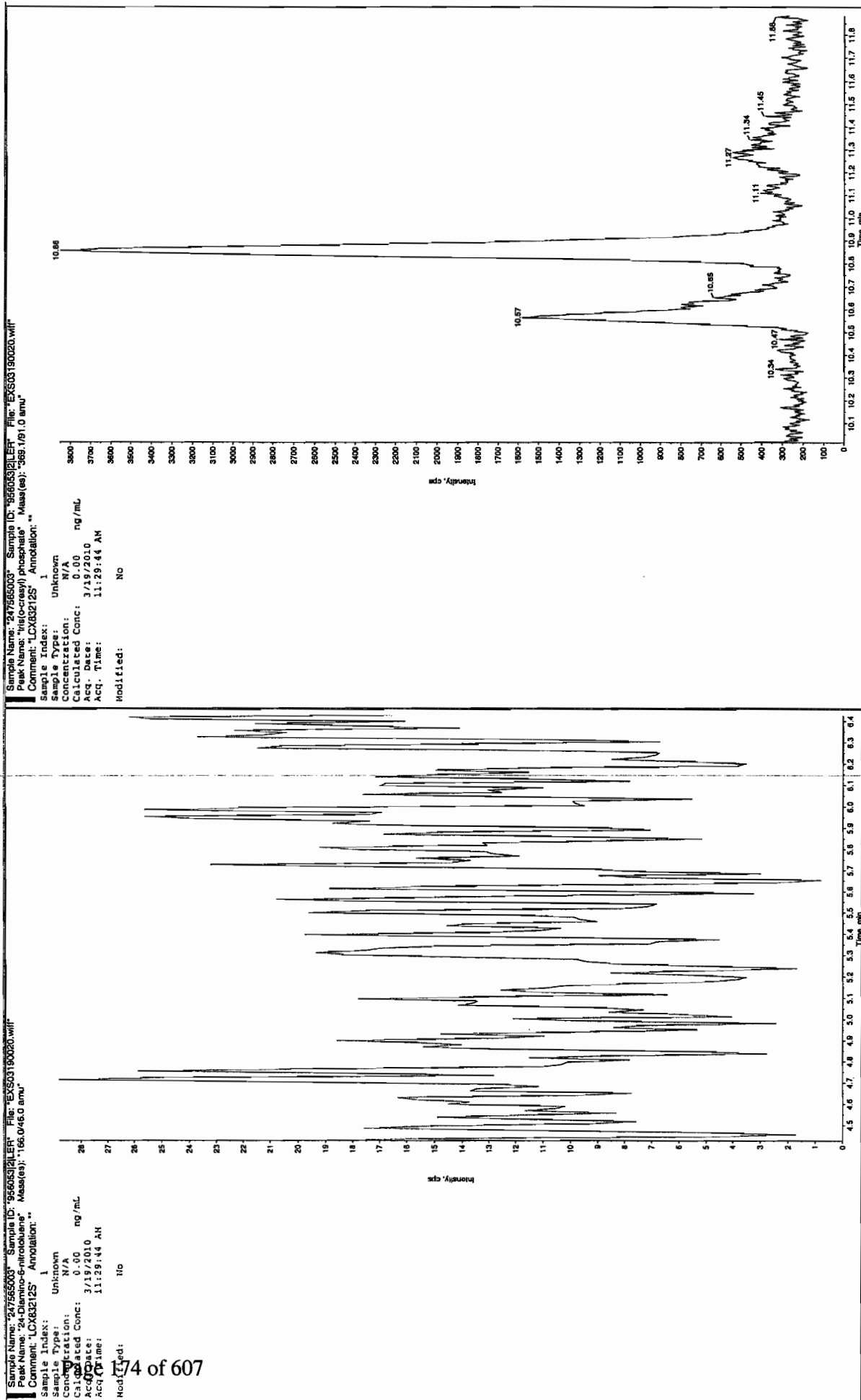
Ken 3/23/10



Amc 03/24/10







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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319082a

Date Analyzed: 21-MAR-10 08:43

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

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Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP\PRO\Data\EXP0319082a

Date: 21-Mar-2010

Time: 08:43:41

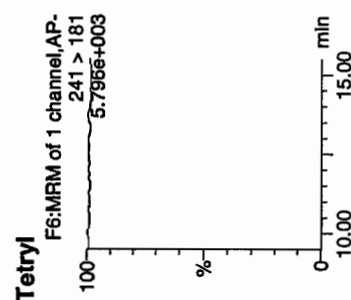
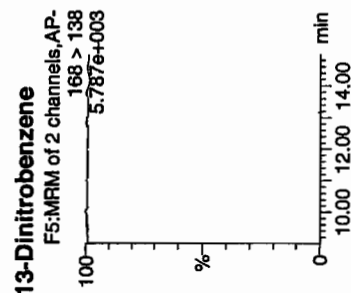
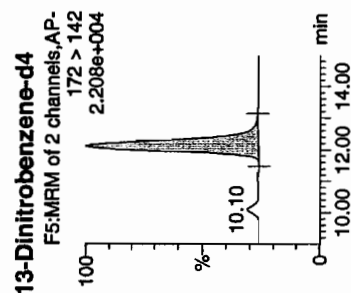
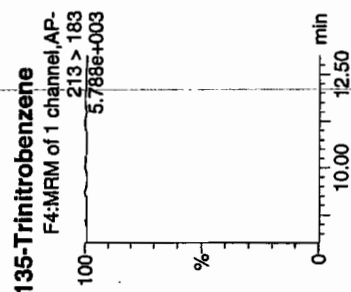
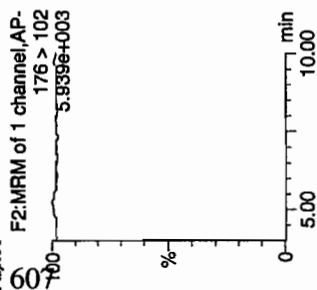
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Vial: 2:7,F

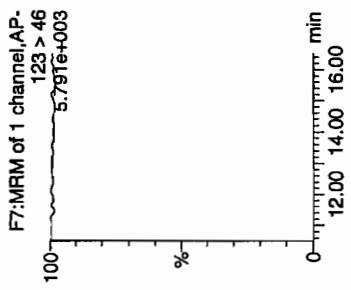
1.477
3/21/10

LAU 956053 / 8062 / 2

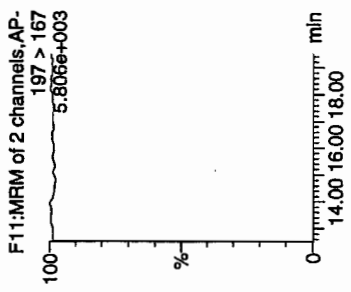
RDX



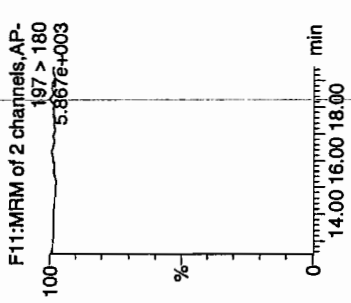
Nitrobenzene



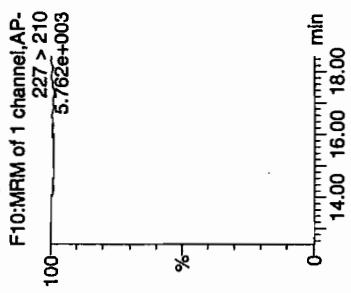
4-Amino-26-dinitrotoluene



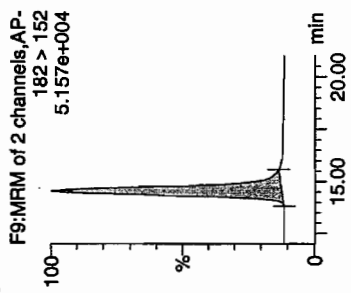
2-Amino-46-dinitrotoluene



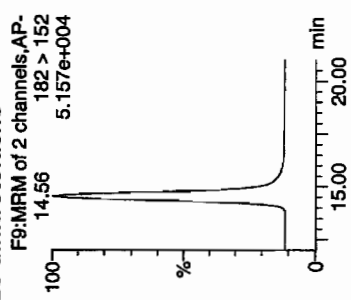
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



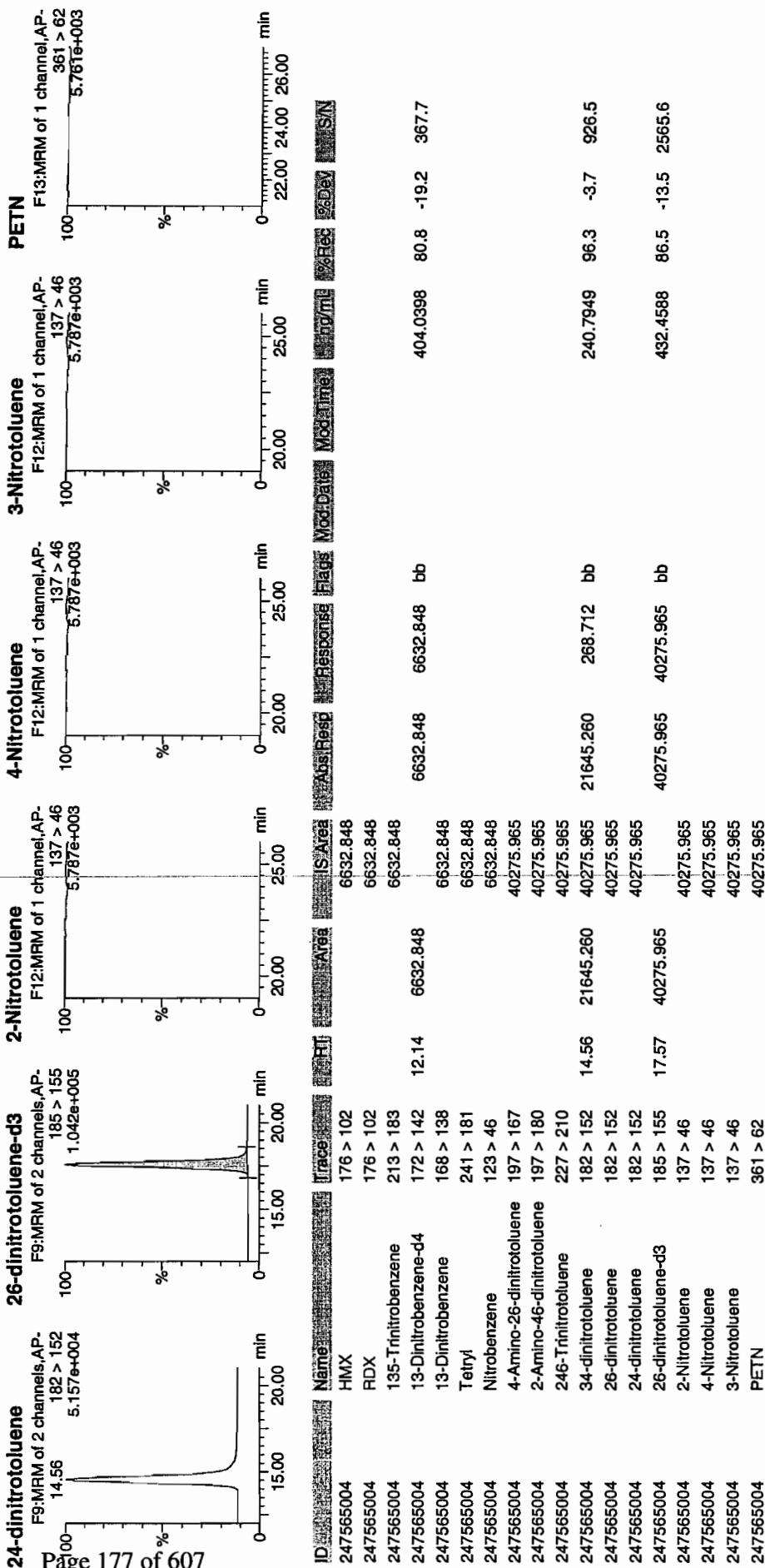
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03/24/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 92 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8251

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565004

Sample Amount 2

Moisture: 2.6

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190021.wiff

Date Analyzed: 19-MAR-10 11:45

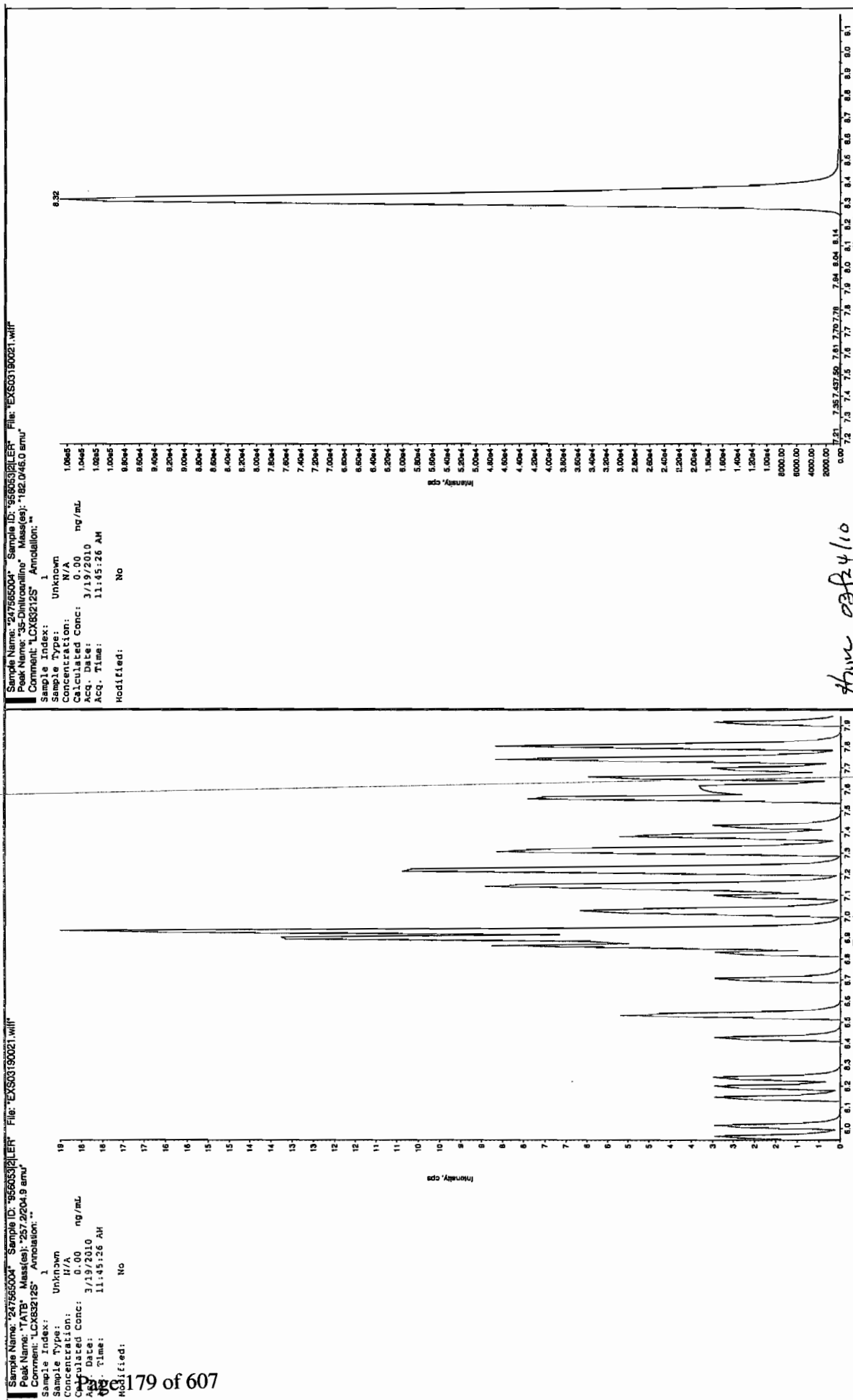
Units: ug/kg

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 X Concentrated Extract Volume X Dilution
Value Sample Amoun Factor

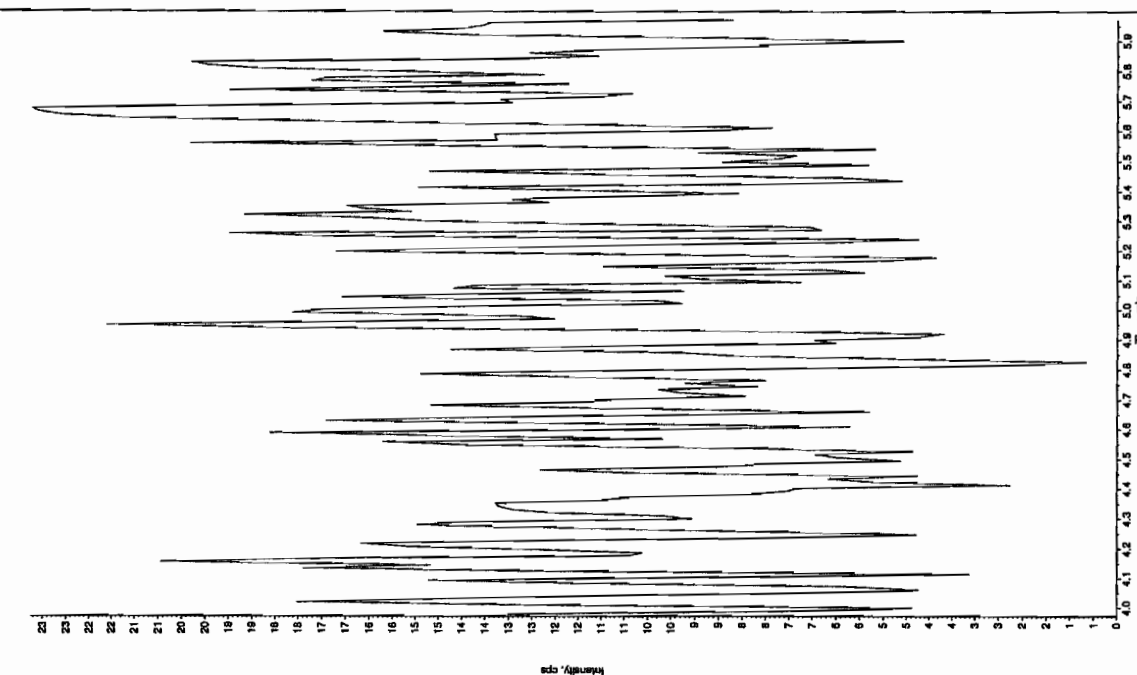
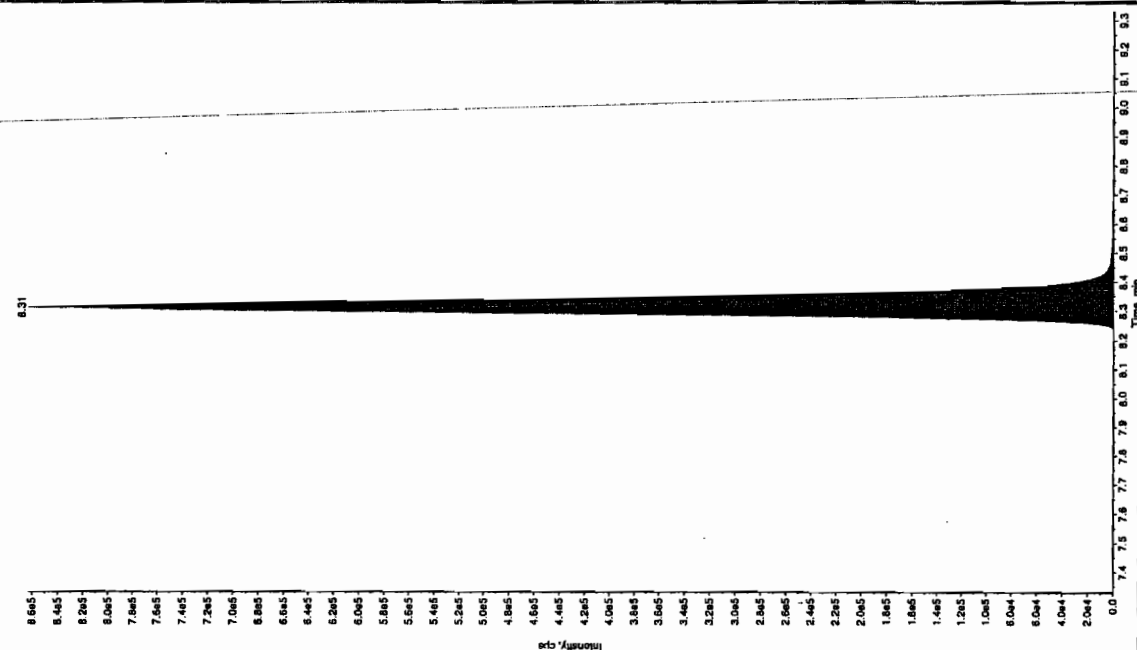
han 3/23/10

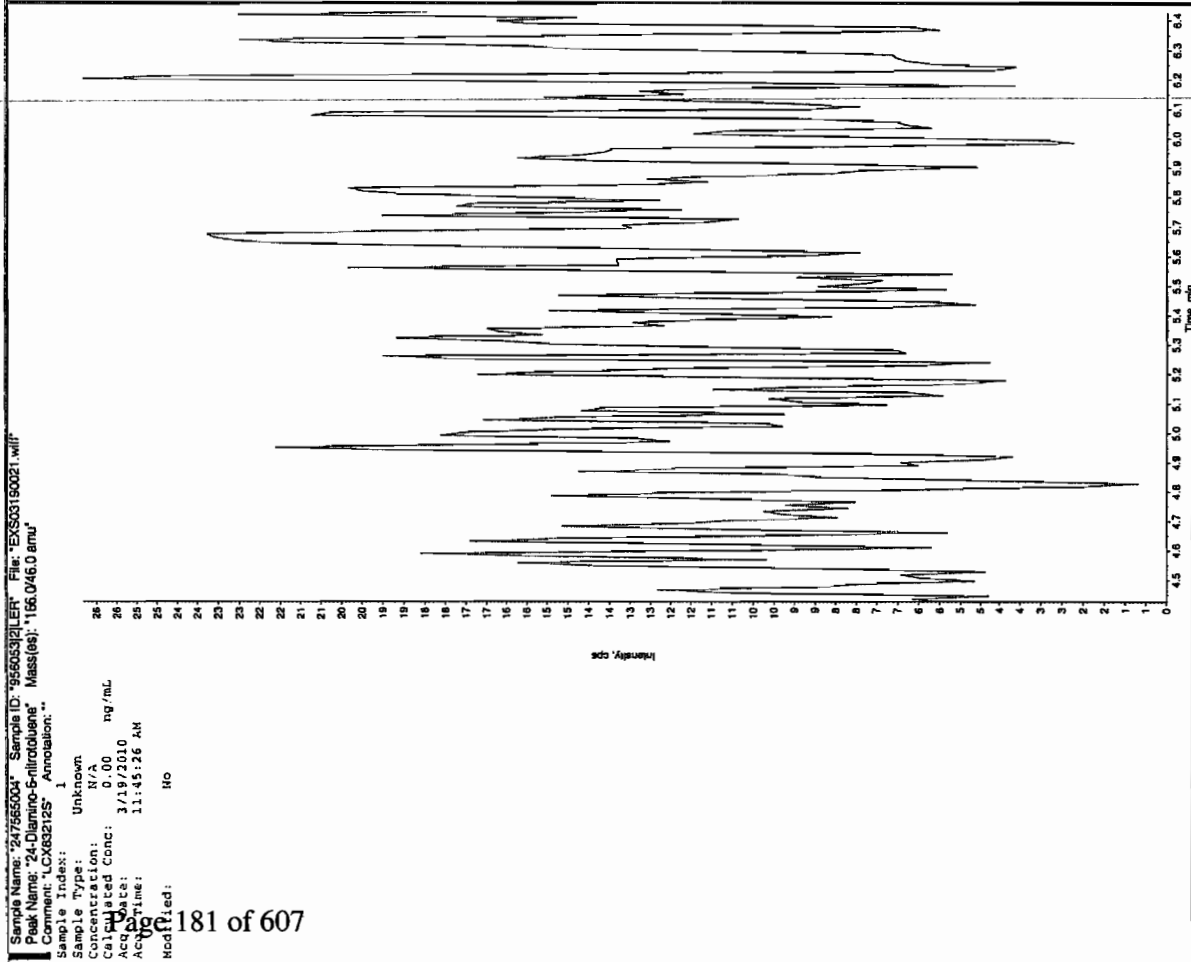
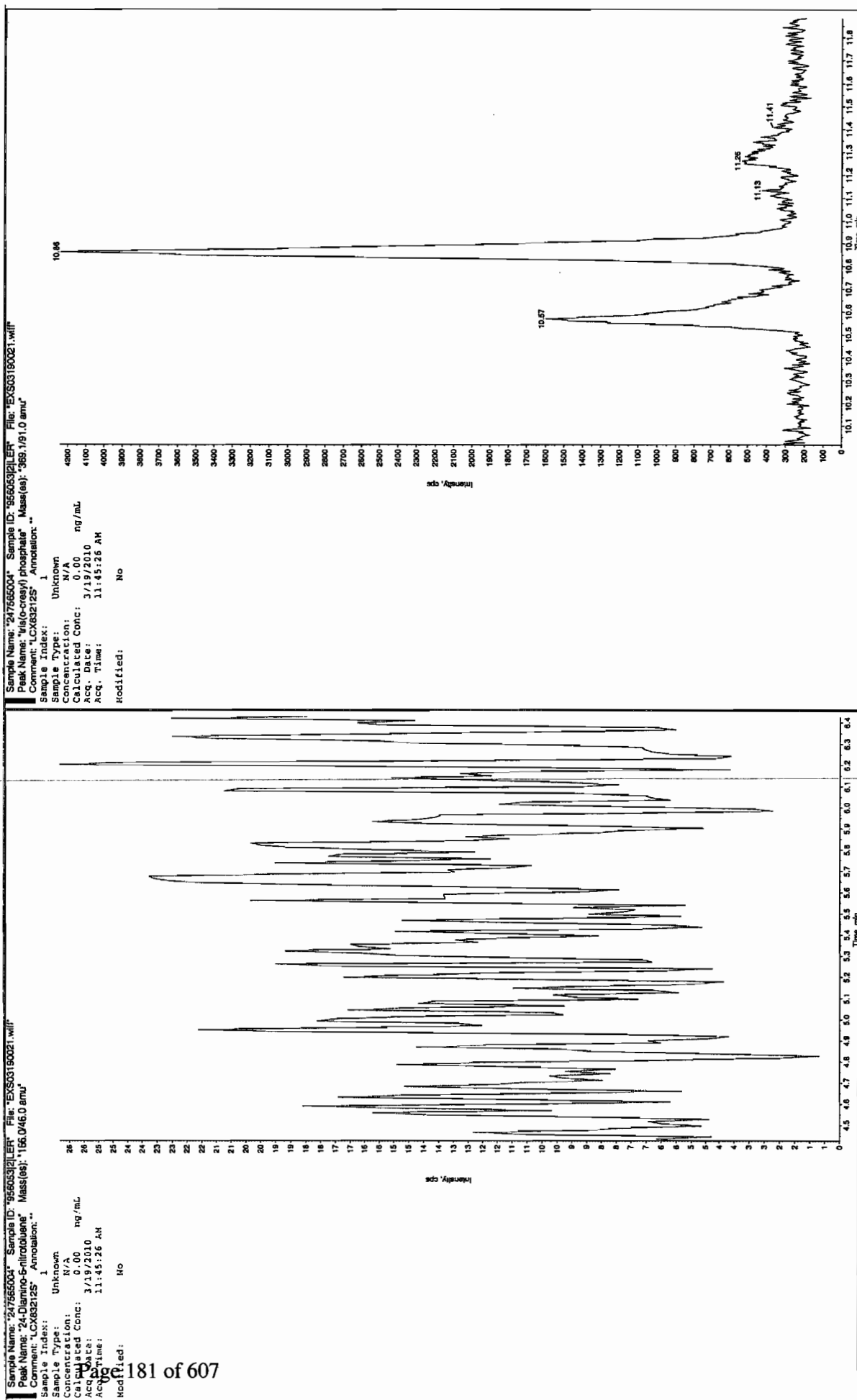


han 3/23/10

Sample Name: "247565004" Sample ID: "95603121ER" File: "EXS03190021.wif"
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"
Comment: "LCX83212S" Annotation: ""

Sample Index:	1
Sample Type:	Unknown
Concentration:	N/A
Calculated Conc:	0.00
Acq. Date:	3/19/2010
Acq. Time:	11:45:26 AM
Modified:	No

[illegible]



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319083a

Date Analyzed: 21-MAR-10 09:13

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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Date: 21-Mar-2010

Time: 09:13:10

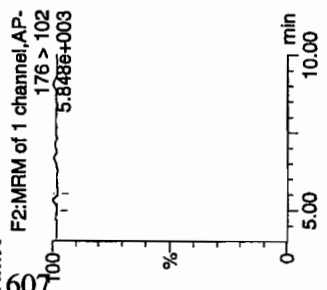
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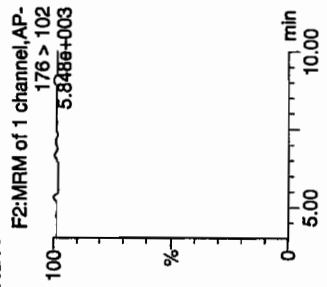
4477
3/21/10

WAL 956053 | 5005 | 21

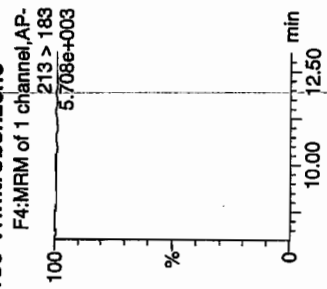
RMX



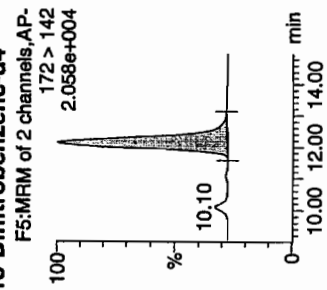
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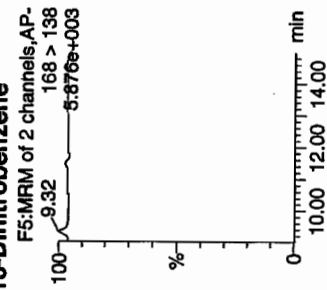
135-Trinitrobenzene



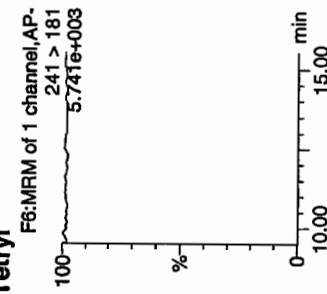
13-Dinitrobenzene-d4



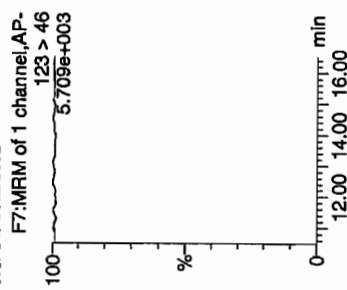
13-Dinitrobenzene



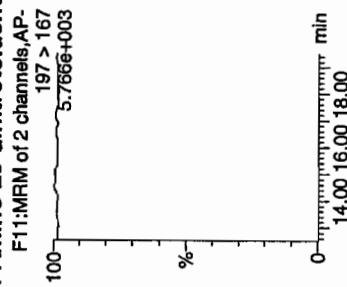
Tetryl



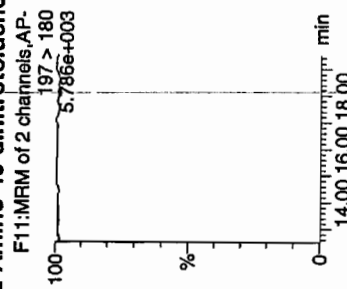
Nitrobenzene



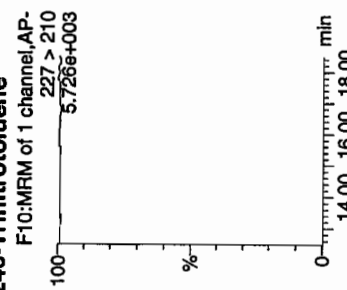
4-Amino-26-dinitrotoluene



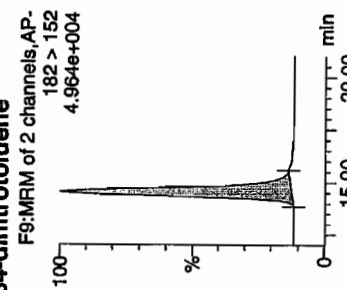
2-Amino-46-dinitrotoluene



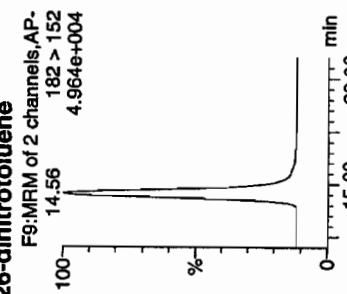
246-Trinitrotoluene



34-dinitrotoluene



26-dinitrotoluene



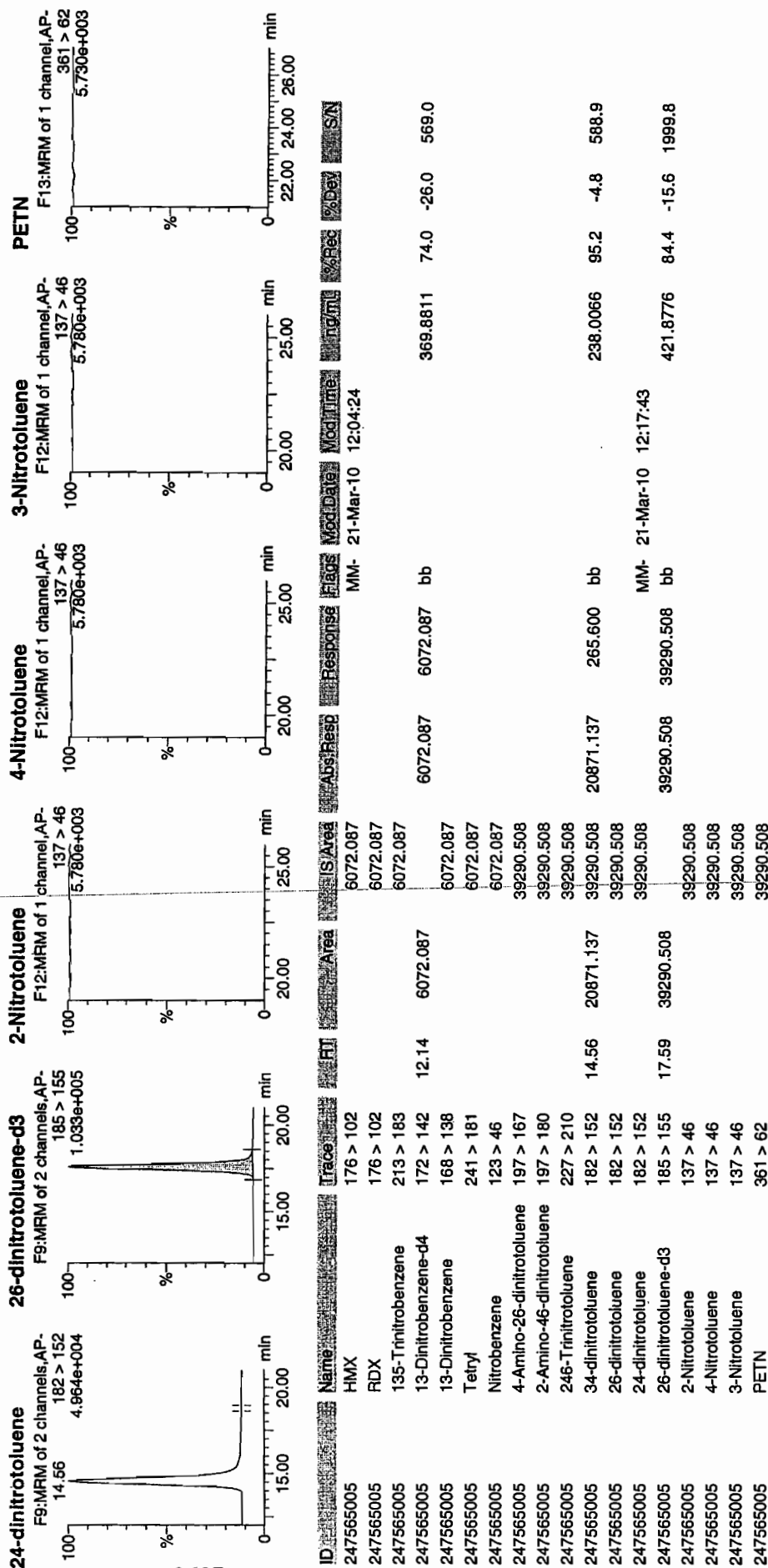
4477
3/21/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 94 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8248

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565005

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190022.wiff

Date Analyzed: 19-MAR-10 12:01

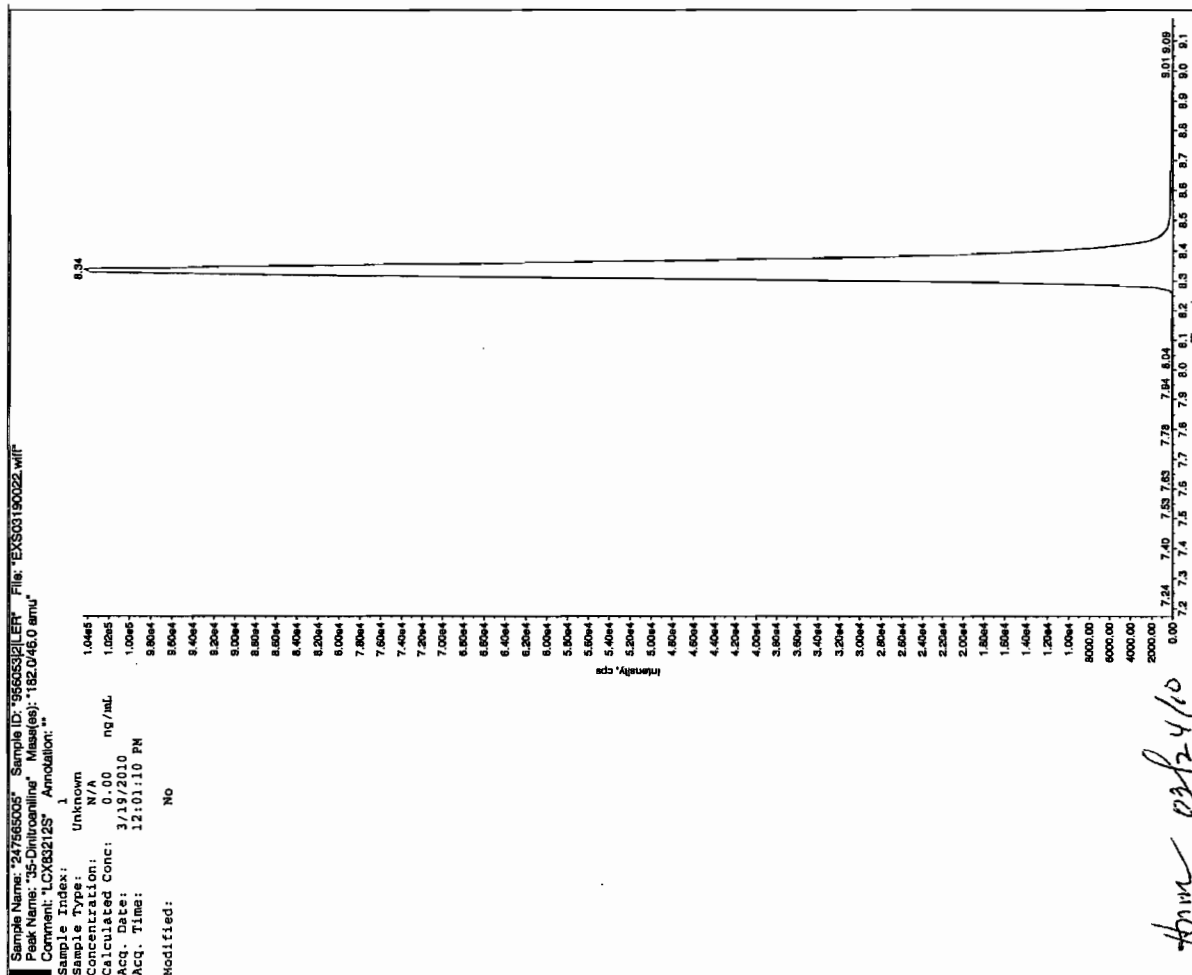
Units: ug/kg

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

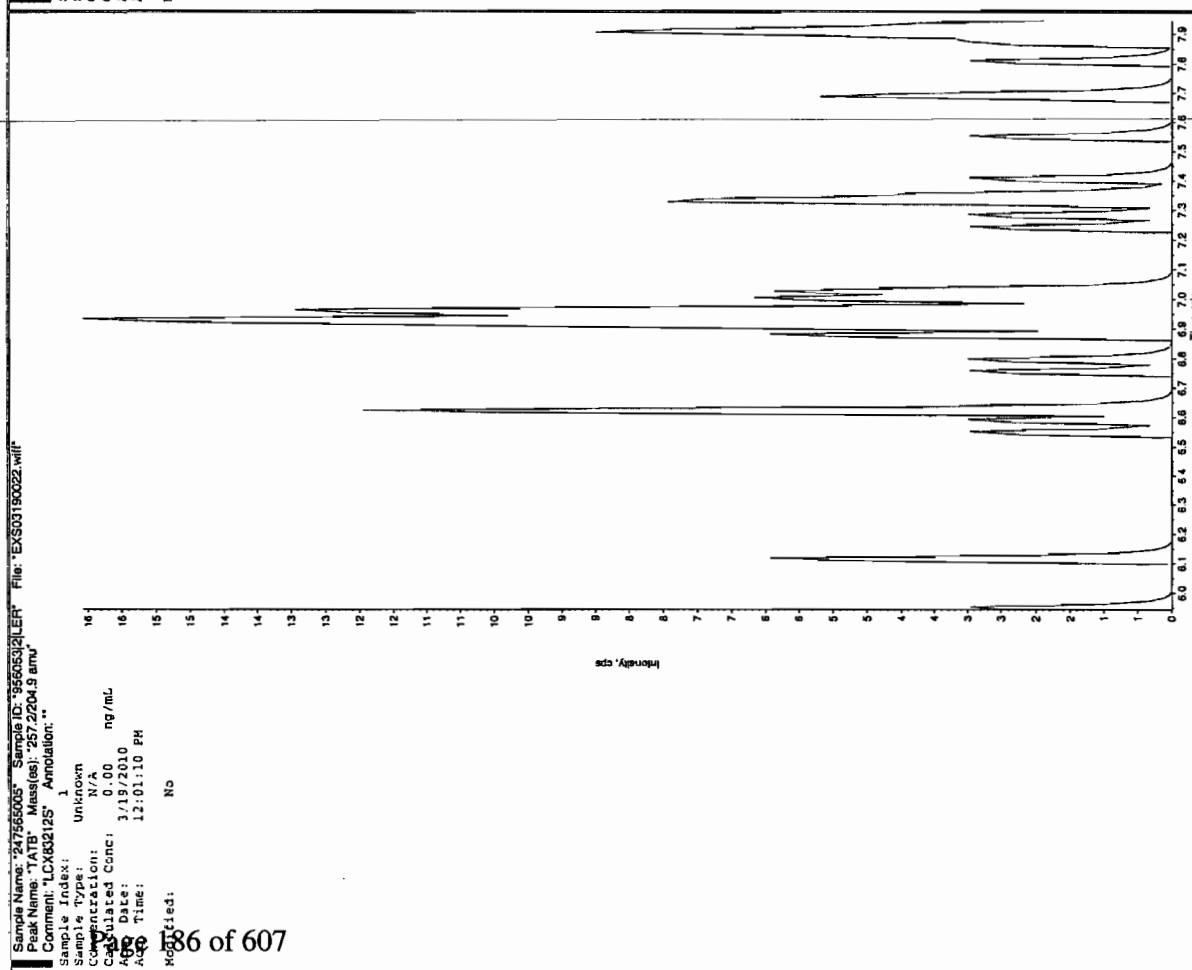
*Concentration =

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

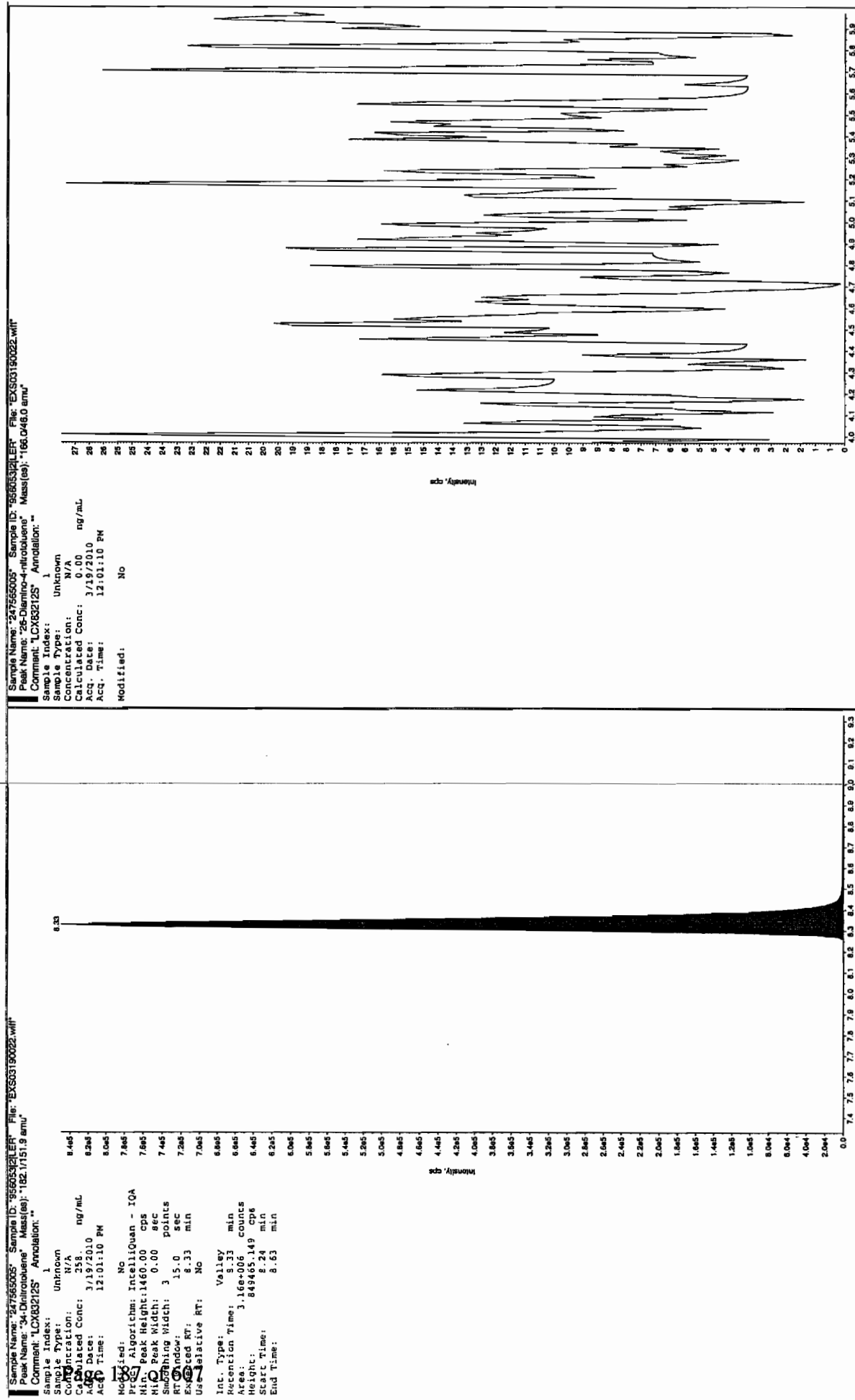
Jan 3/23/10



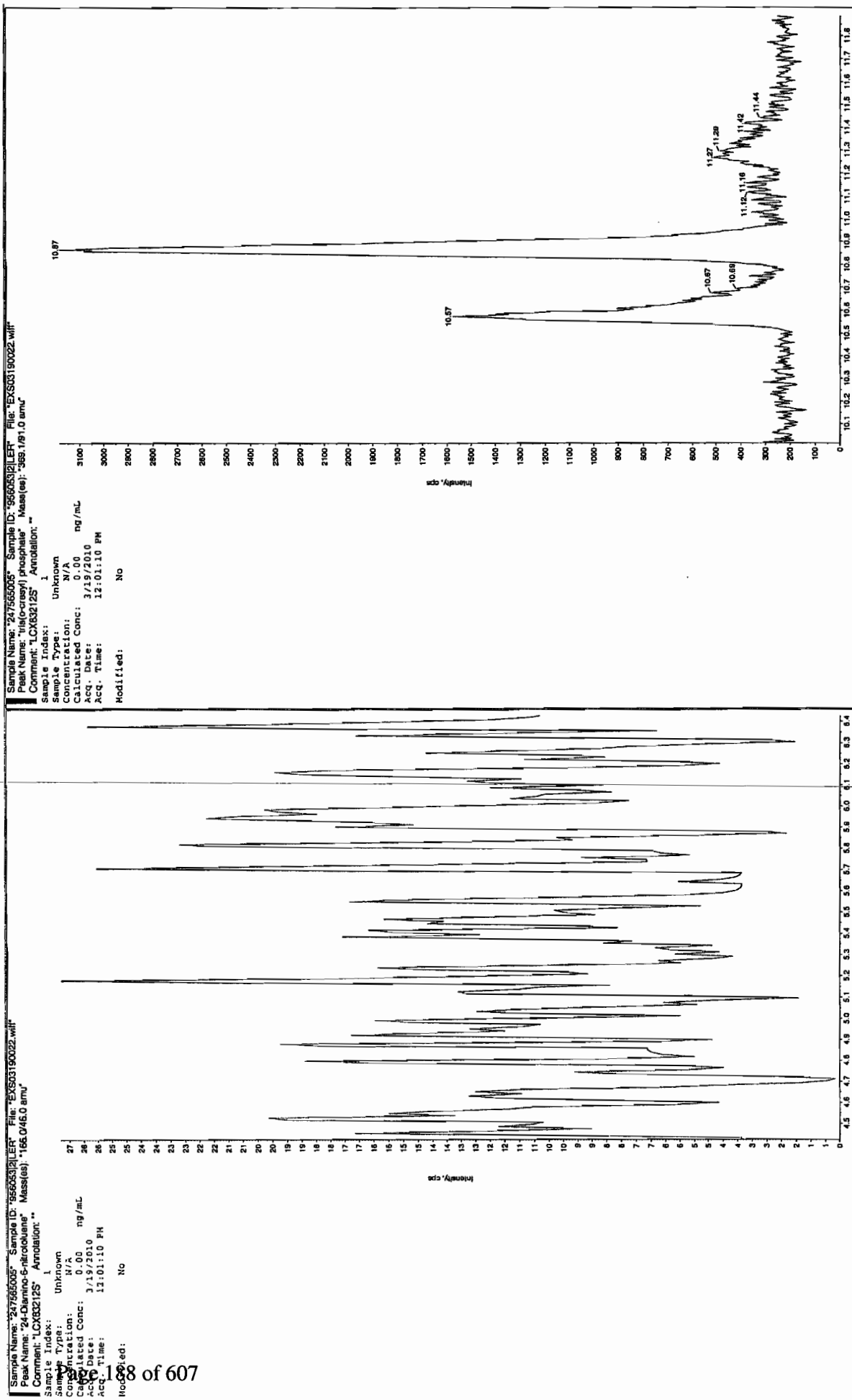
Am 03/24/10



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



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



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

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319084a

Date Analyzed: 21-MAR-10 09:42

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319084a

Date: 21-Mar-2010

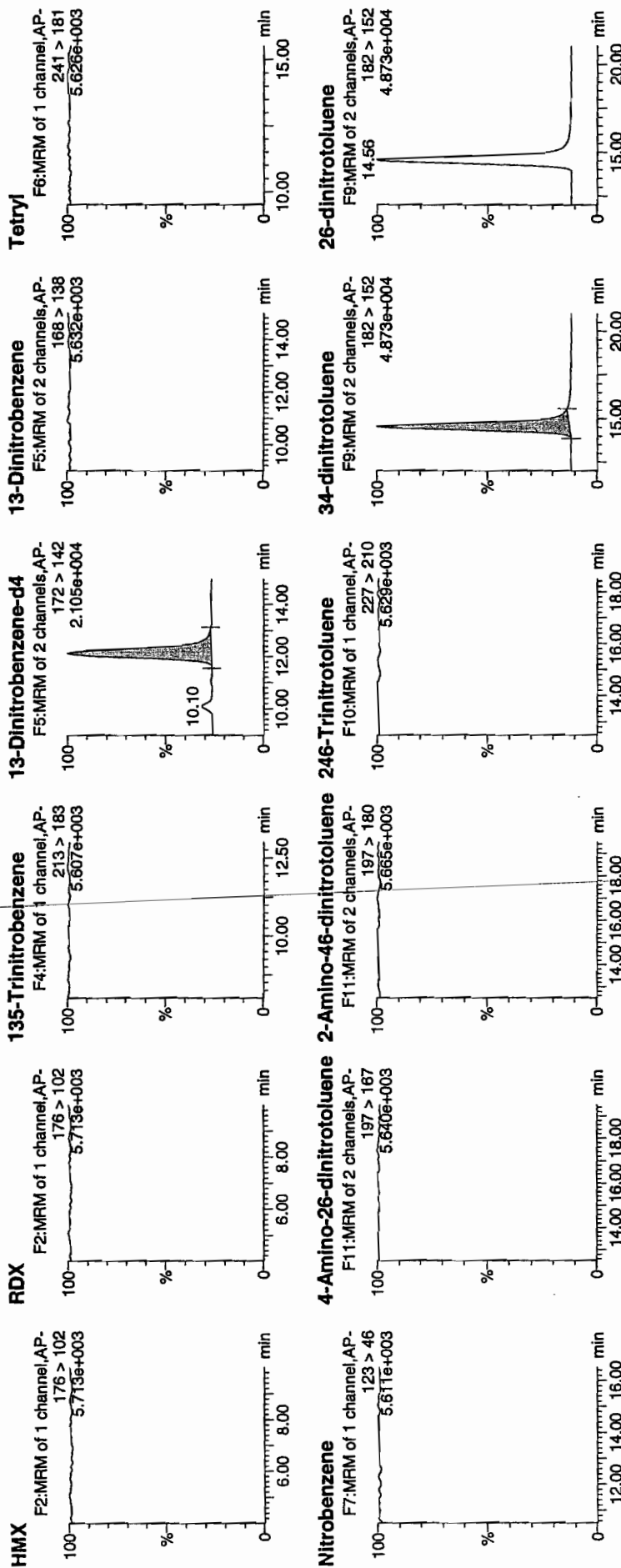
Time: 09:42:41

ID: 247565006

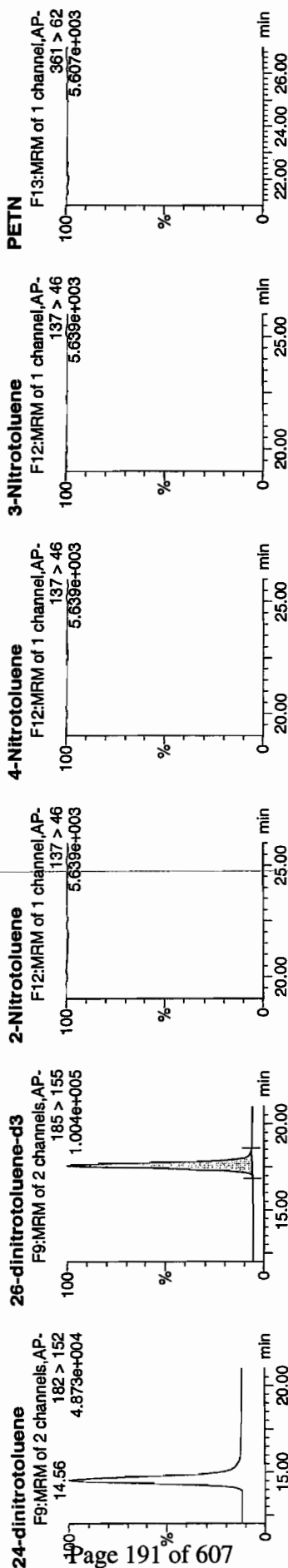
Vial: 2:8,B

10.10
3/24/10

LAUL 956053 / 80122 / 21



4mm 03/24/10



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Rec	%Dev	SN
247565006	HMX	176 > 102		6439.454	6439.454									
247565006	RDX	176 > 102		6439.454	6439.454									
247565006	135-Trinitrobenzene	213 > 183		6439.454	6439.454									
247565006	13-Dinitrobenzene-d4	172 > 142	12.14	6439.454	6439.454	6439.454	6439.454	bb			392.2592	78.5	-21.5	307.0
247565006	13-Dinitrobenzene	168 > 138		6439.454	6439.454									
247565006	Tetryl	241 > 181		6439.454	6439.454									
247565006	Nitrobenzene	123 > 46		38435.199	38435.199									
247565006	4-Amino-26-dinitrotoluene	197 > 167		38435.199	38435.199									
247565006	2-Amino-46-dinitrotoluene	197 > 180		38435.199	38435.199									
247565006	246-Trinitrotoluene	227 > 210		38435.199	38435.199									
247565006	34-dinitrotoluene	182 > 152	14.56	20616.418	38435.199	20616.418	268.197	bb			240.3336	96.1	-3.9	1015.2
247565006	26-dinitrotoluene	182 > 152		38435.199	38435.199									
247565006	24-dinitrotoluene	182 > 152		38435.199	38435.199									
247565006	26-dinitrotoluene-d3	185 > 155	17.57	38435.199	38435.199	38435.199	38435.199	bb			412.6938	82.5	-17.5	1744.5
247565006	2-Nitrotoluene	137 > 46		38435.199	38435.199									
247565006	4-Nitrotoluene	137 > 46		38435.199	38435.199									
247565006	3-Nitrotoluene	137 > 46		38435.199	38435.199									
247565006	PETN	361 > 62		38435.199	38435.199									

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8249

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565006

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190023.wiff

Date Analyzed: 19-MAR-10 12:16

Units: ug/kg

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

*Concentration =

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

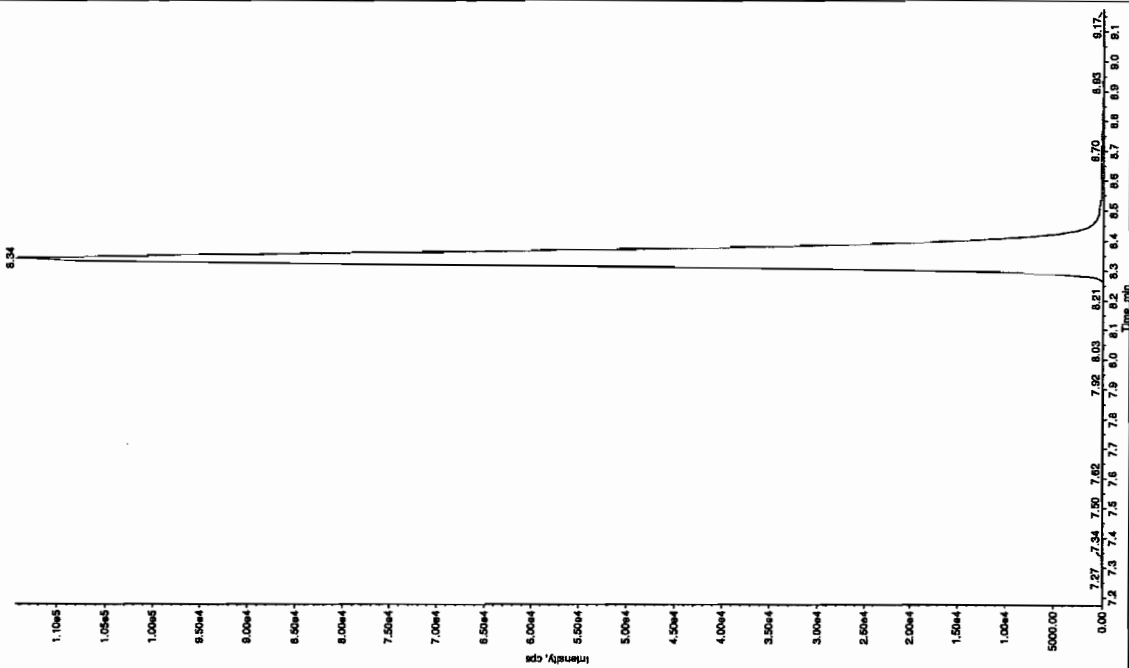
Run 3/23/10

Sample Name: "247555006" Sample ID: "955053121" File: "EX503190023.wif"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:16:53 PM
 Modified: No



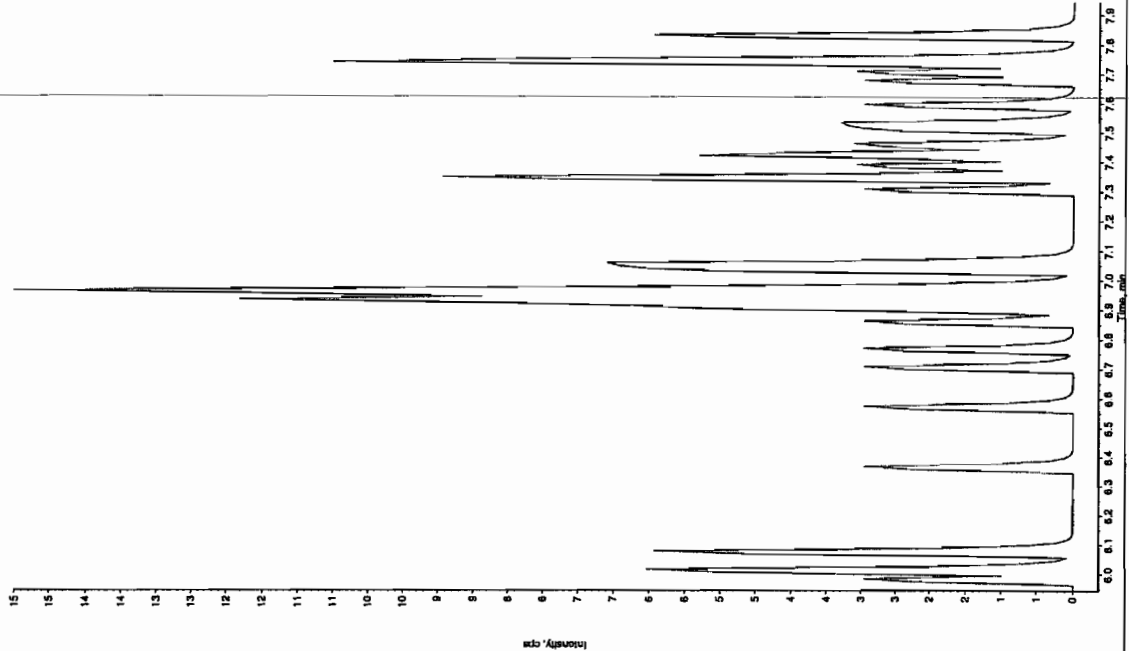
Run 03/24/10

Sample Name: "247555006" Sample ID: "955053121" File: "EX503190023.wif"

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

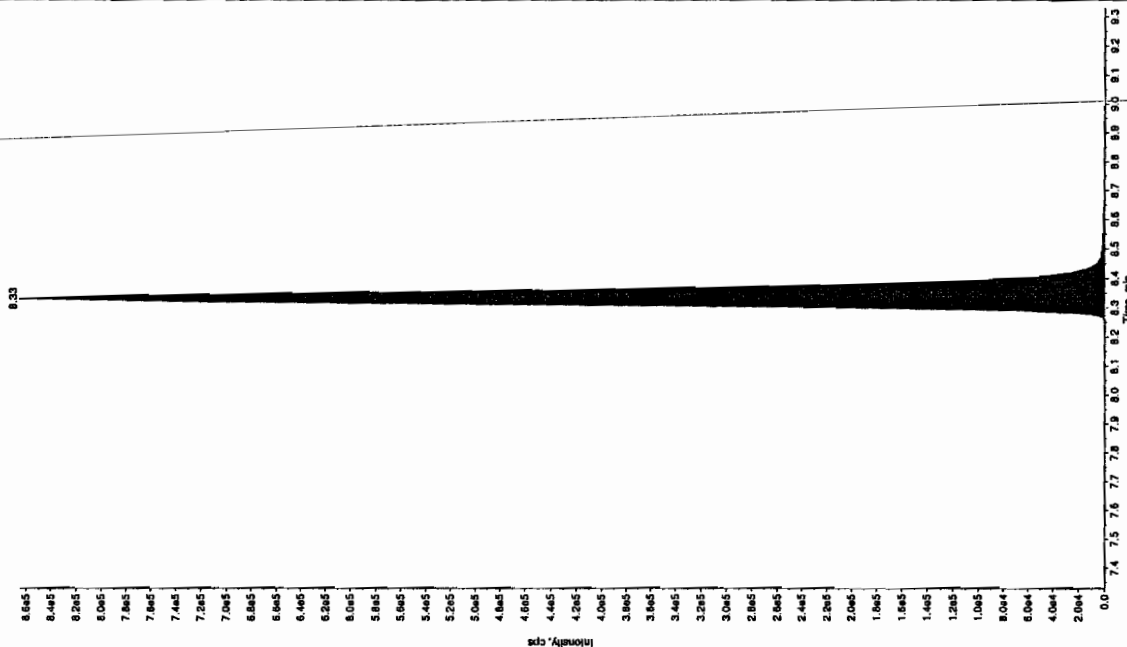
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:16:53 PM
 Modified: No



Sample Name: "247565006" Sample ID: "956053212" File: "EX03190023.wif"
 Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "185.046.0 amu"
 Comment: "LCX632125" Annotation: ""

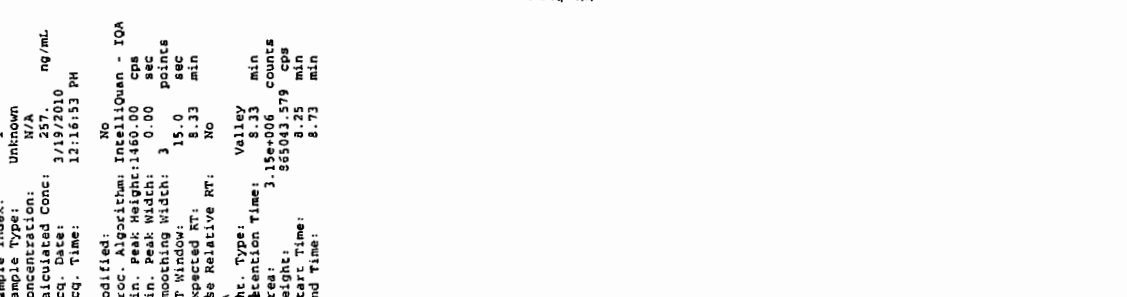
Sample Index: 1
 Sample Type: Unknown
 Concentration: 25A ng/mL
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 12:16:53 PM
 Modified: No



Sample Name: "247565006" Sample ID: "956053212" File: "EX03190023.wif"
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.151.9 amu"
 Comment: "LCX632125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 25A ng/mL
 Calculated Conc: 3/19/2010
 Acq. Date: 12:16:53 PM
 Acq. Time: 12:16:53 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 3.15e+006 counts
 Height: 56504.579 cps
 Start Time: 8.25 min
 End Time: 8.73 min



Sample Name: "247565005" Sample ID: "956053121.ER" File: "EX503190023.wif"

Peak Name: "Is(o-cresyl) phosphate" Mass(es): "369.1/81.0 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

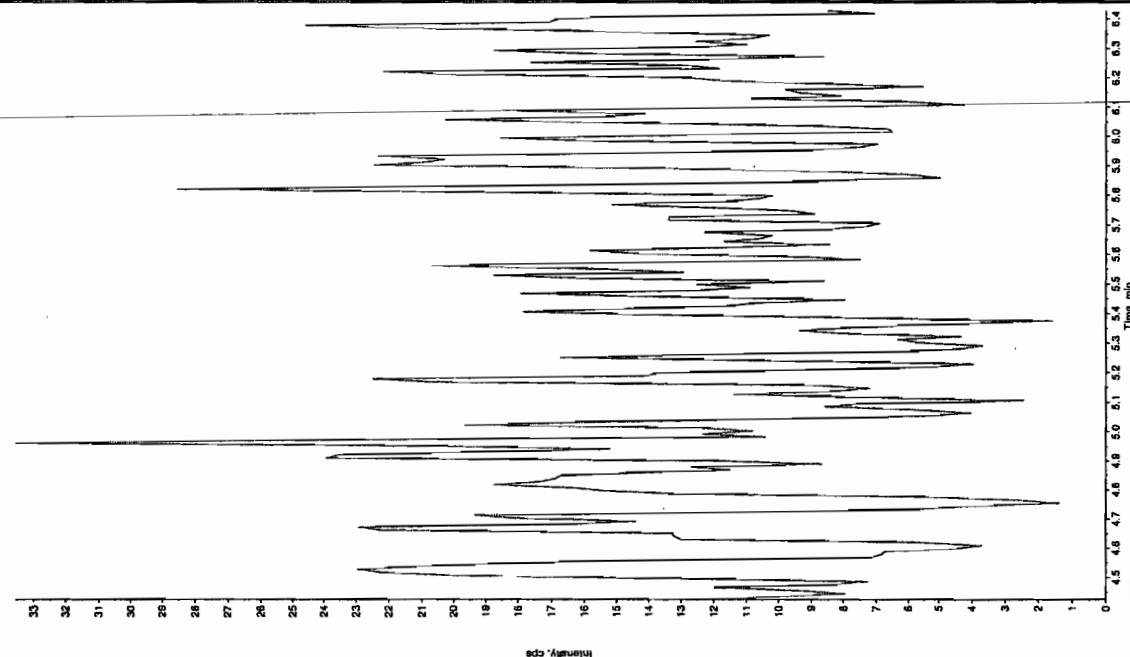
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/19/2010

Acq. Time: 12:16:53 PM

Modified: No



Sample Name: "247565005" Sample ID: "956053121.ER" File: "EX503190023.wif"

Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/19/2010

Acq. Time: 12:16:53 PM

Modified: No

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323014a

Date Analyzed: 23-MAR-10 15:32

Units: ug/kg

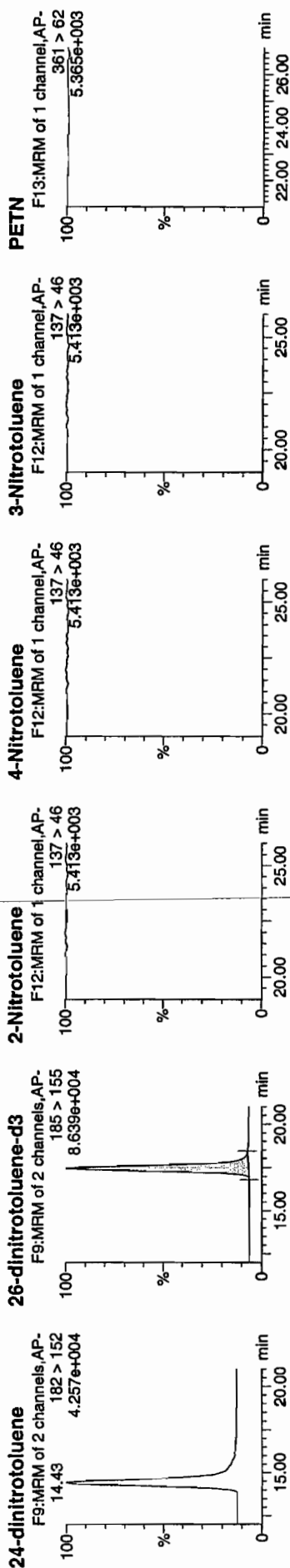
Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	500	U
121-14-2	2,4-Dinitrotoluene	500	U
121-82-4	RDX	500	U
19406-51-0	4-Amino-2,6-dinitrotoluene	500	U
2691-41-0	HMX	500	U
35572-78-2	2-Amino-4,6-dinitrotoluene	500	U
479-45-8	Tetryl	500	U
606-20-2	2,6-Dinitrotoluene	500	U
78-11-5	PETN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

*Concentration =

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

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

[illegible]

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8247

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565007

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190027.wiff

Date Analyzed: 19-MAR-10 13:19

Units: ug/kg

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

*Concentration =

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

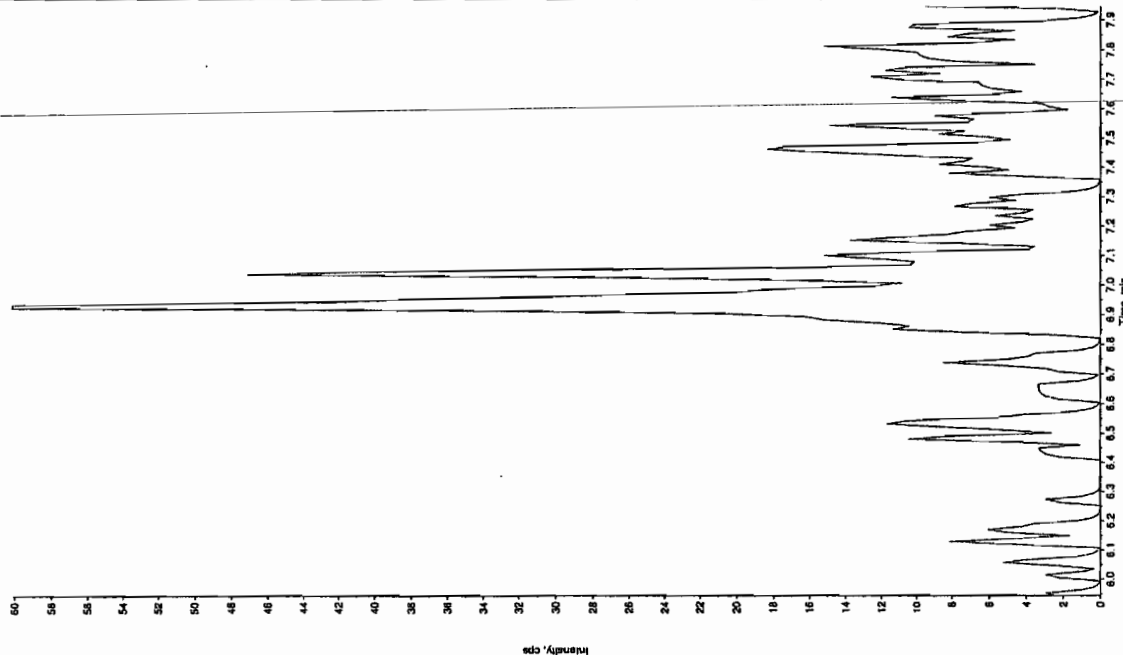
Run 32310

Sample Name: "247565007" Sample ID: "955033212" File: "EX503190027.wif"

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

Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:19:45 PM
 Modified: No

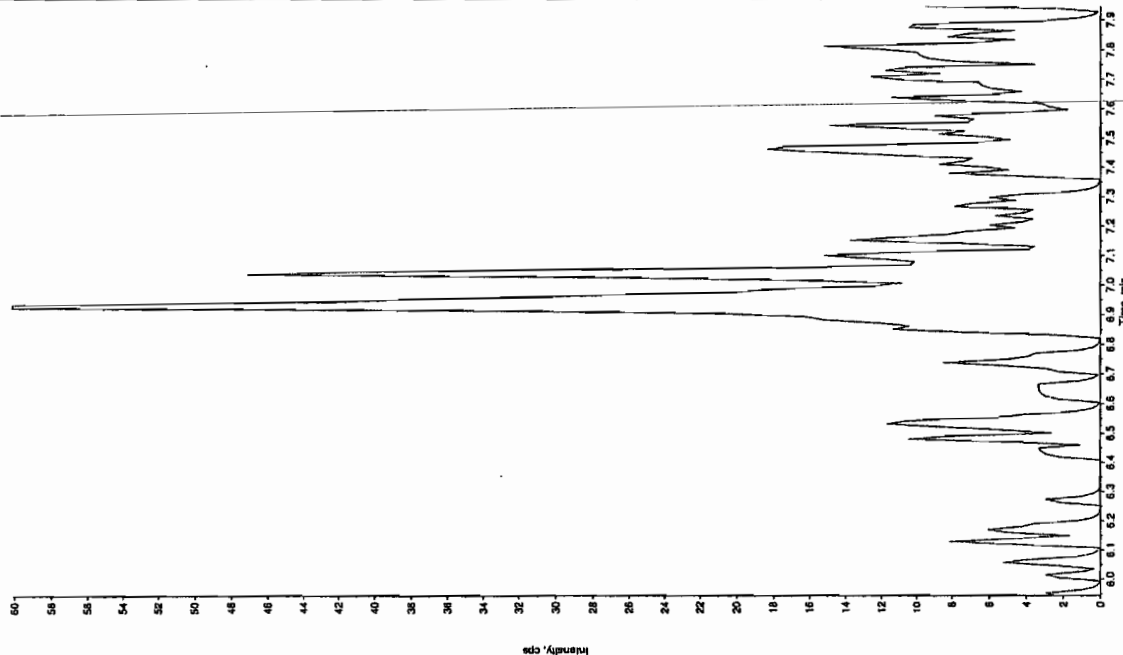


Sample Name: "247565007" Sample ID: "955033212" File: "EX503190027.wif"

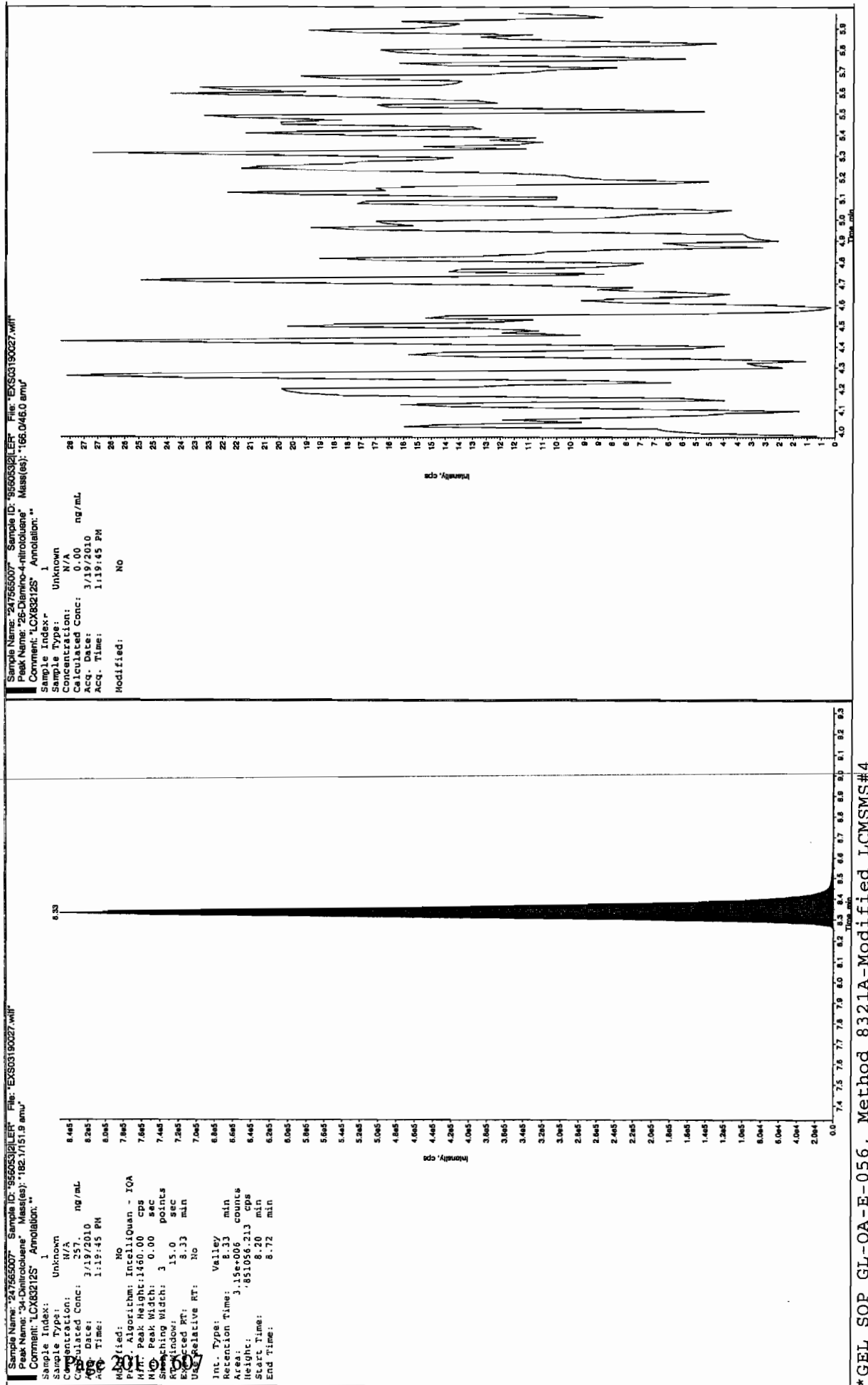
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

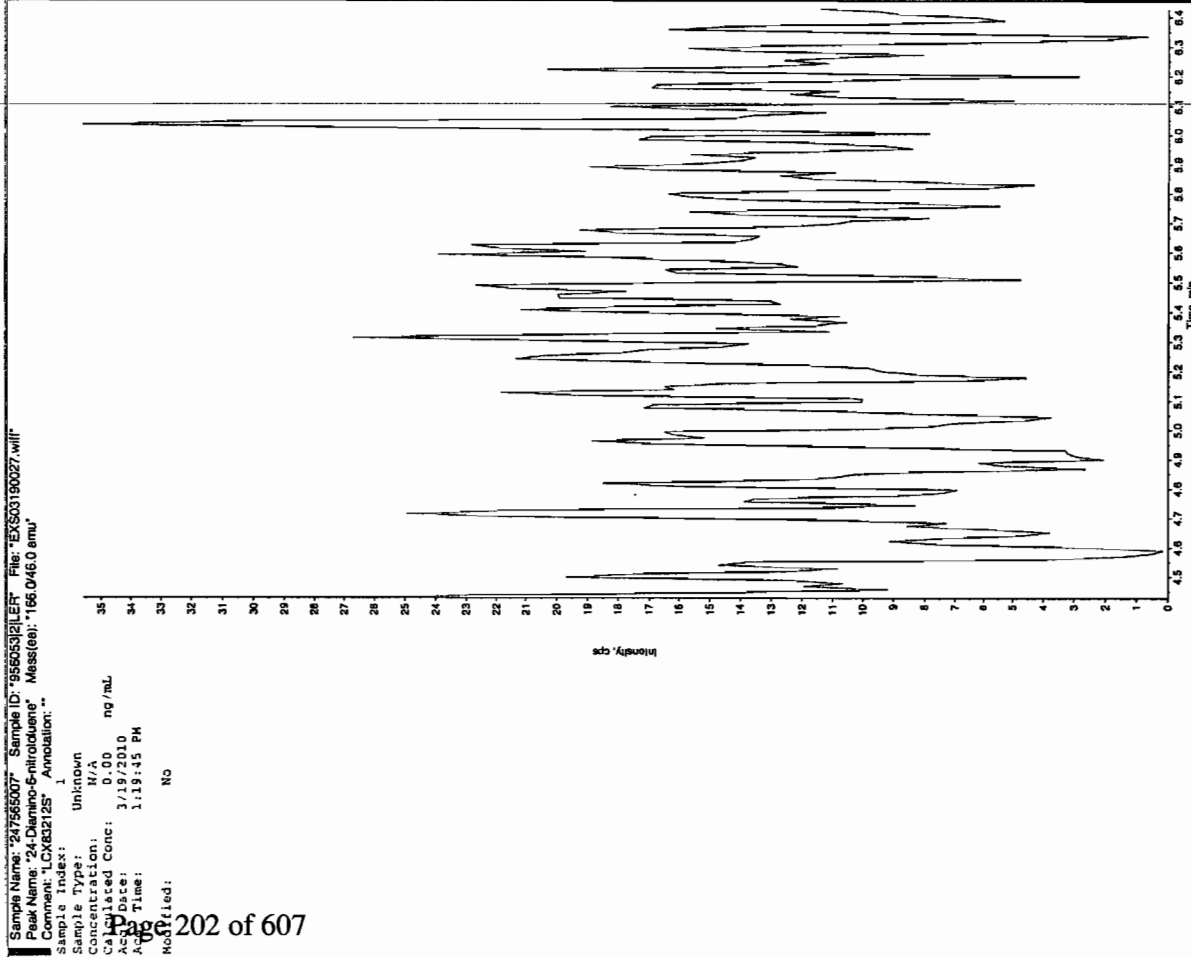
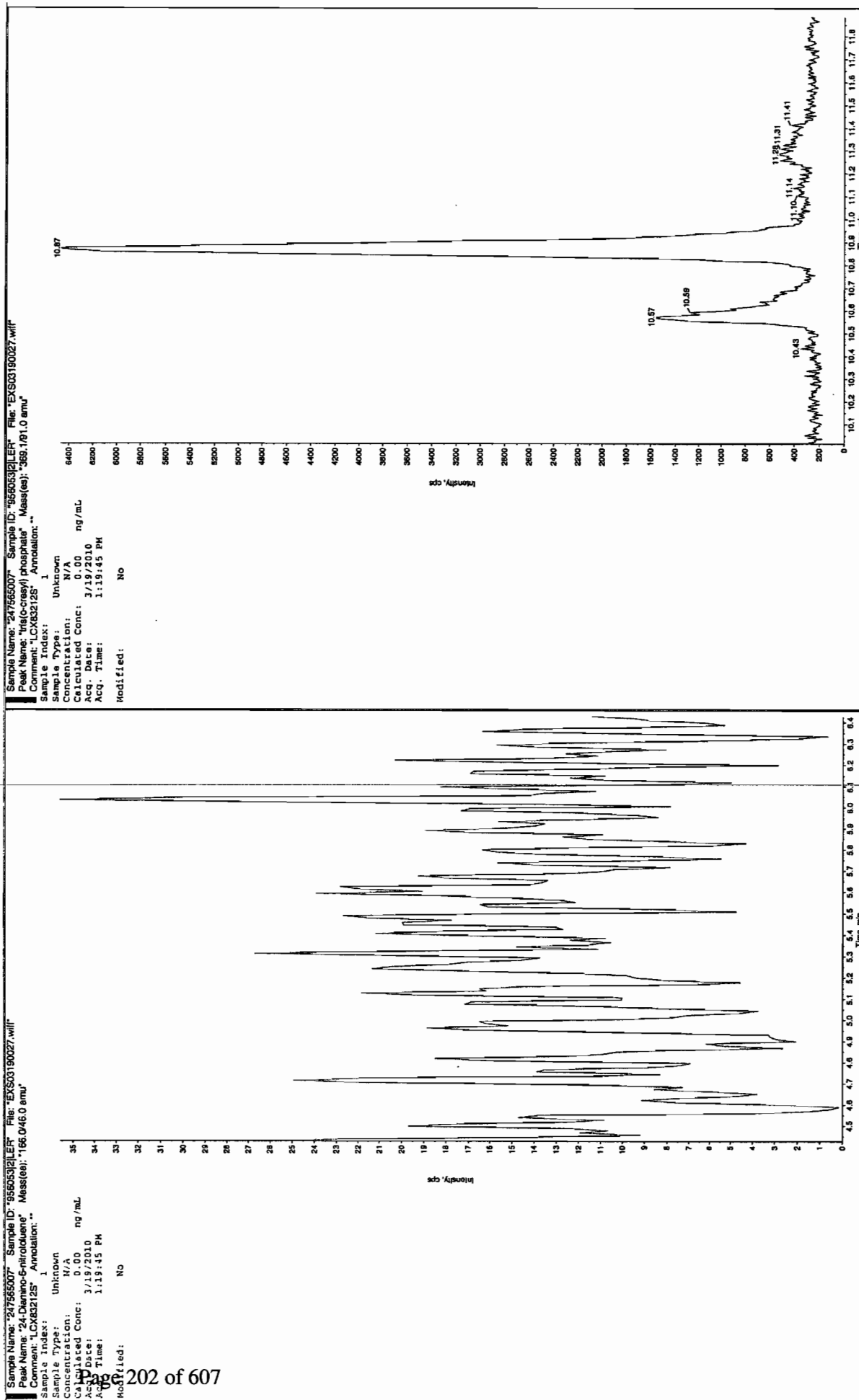
Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:19:45 PM
 Modified: No



Run 32310





*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: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323015a

Date Analyzed: 23-MAR-10 16:01

Units: ug/kg

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

*Concentration =

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

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323015a

Date: 23-Mar-2010

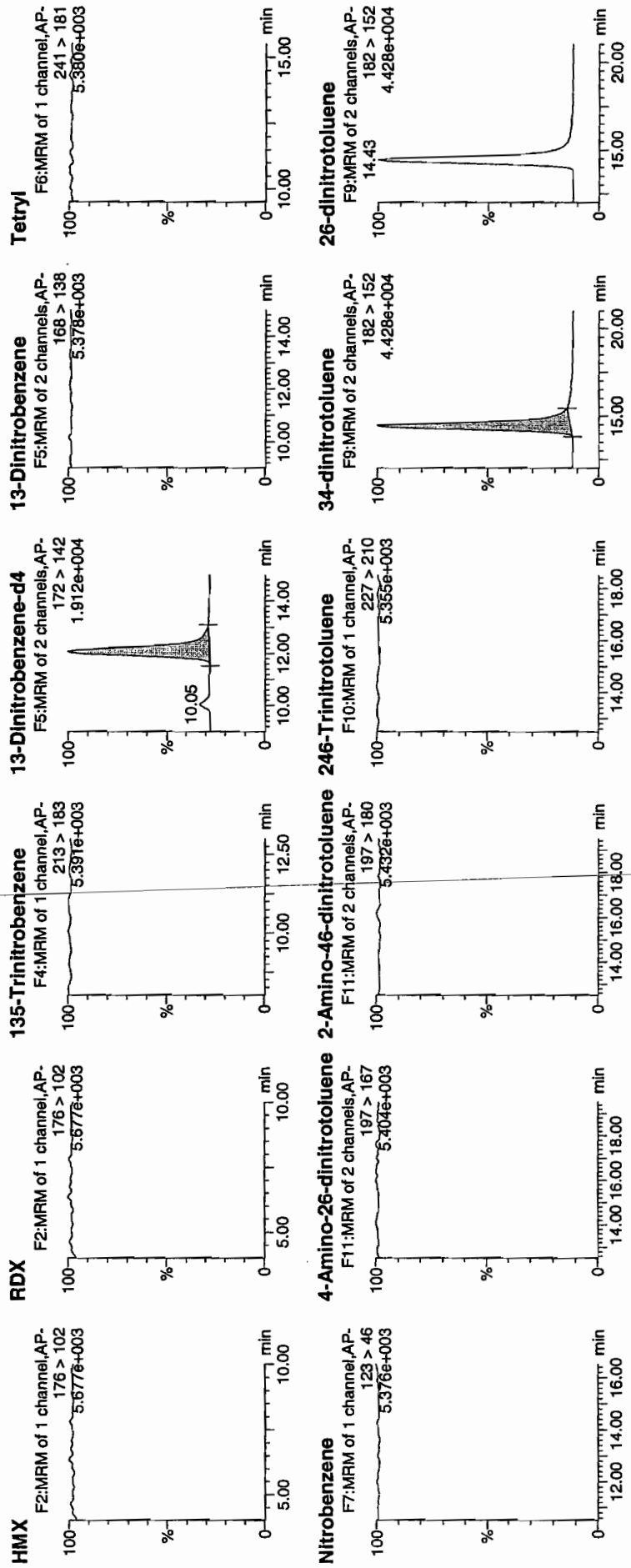
Time: 16:01:48

ID: 247565008

Vial: 1:3,C

1477
3/24/10

LAU 1956053 | SOLID | 21

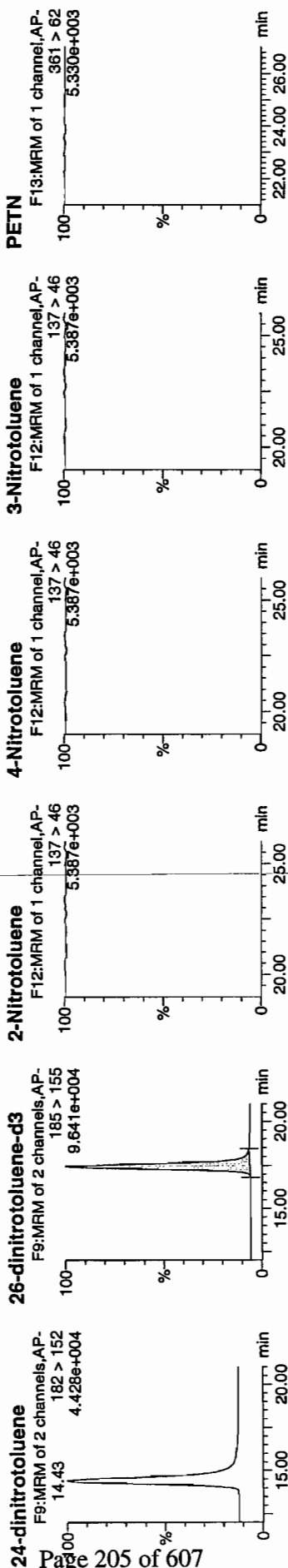


Handwritten signature: 3/24/10

Quantify Sample Report

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

Dataset: C:\MASSLYN\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



ID	Name	Trace	RT	Area	%Area	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N
247565008	HMx	176 > 102			5563.937									
247565008	RDX	176 > 102			5563.937									
247565008	135-Trinitrobenzene	213 > 183			5563.937									
247565008	13-Dinitrobenzene-d4	172 > 142	12.07	5563.937		5563.937	5563.937	bb			505.4199	101.1	1.1	303.4
247565008	13-Dinitrobenzene	168 > 138			5563.937									
247565008	Tetryl	241 > 181			5563.937									
247565008	Nitrobenzene	123 > 46			5563.937									
247565008	4-Amino-26-dinitrotoluene	197 > 167			34936.879									
247565008	2-Amino-46-dinitrotoluene	197 > 180			34936.879									
247565008	246-Trinitrotoluene	227 > 210			34936.879									
247565008	34-dinitrotoluene	182 > 152	14.43	18543.467		18543.467	265.385	bb			250.6275	100.3	0.3	1012.2
247565008	26-dinitrotoluene	182 > 152			34936.879									
247565008	24-dinitrotoluene	182 > 152			34936.879									
247565008	26-dinitrotoluene-d3	185 > 155	17.44	34936.879		34936.879	34936.879	bb			507.3526	101.5	1.5	3920.3
247565008	2-Nitrotoluene	137 > 46			34936.879									
247565008	4-Nitrotoluene	137 > 46			34936.879									
247565008	3-Nitrotoluene	137 > 46			34936.879									
247565008	PETN	361 > 62			34936.879									

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8254

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565008

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190028.wiff

Date Analyzed: 19-MAR-10 13:35

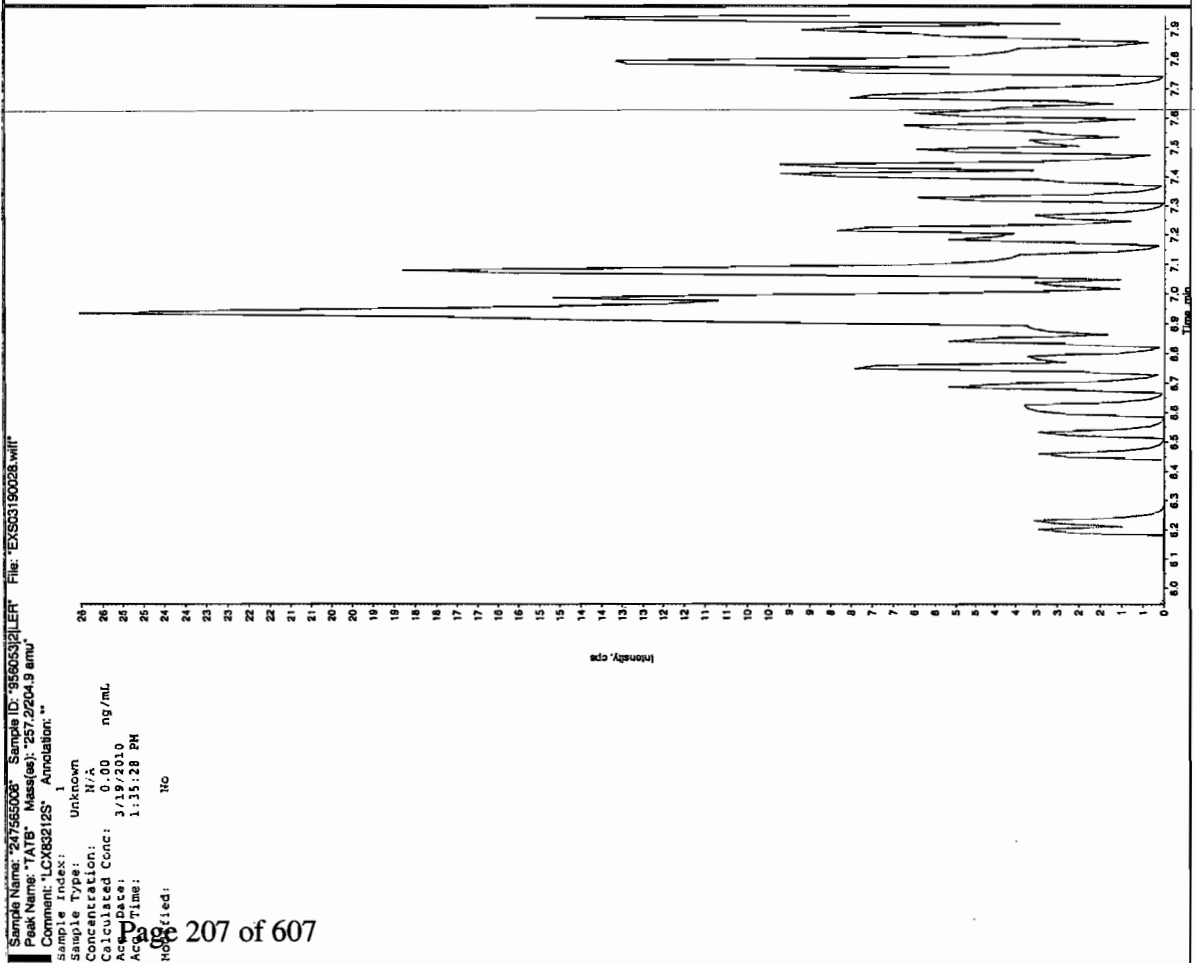
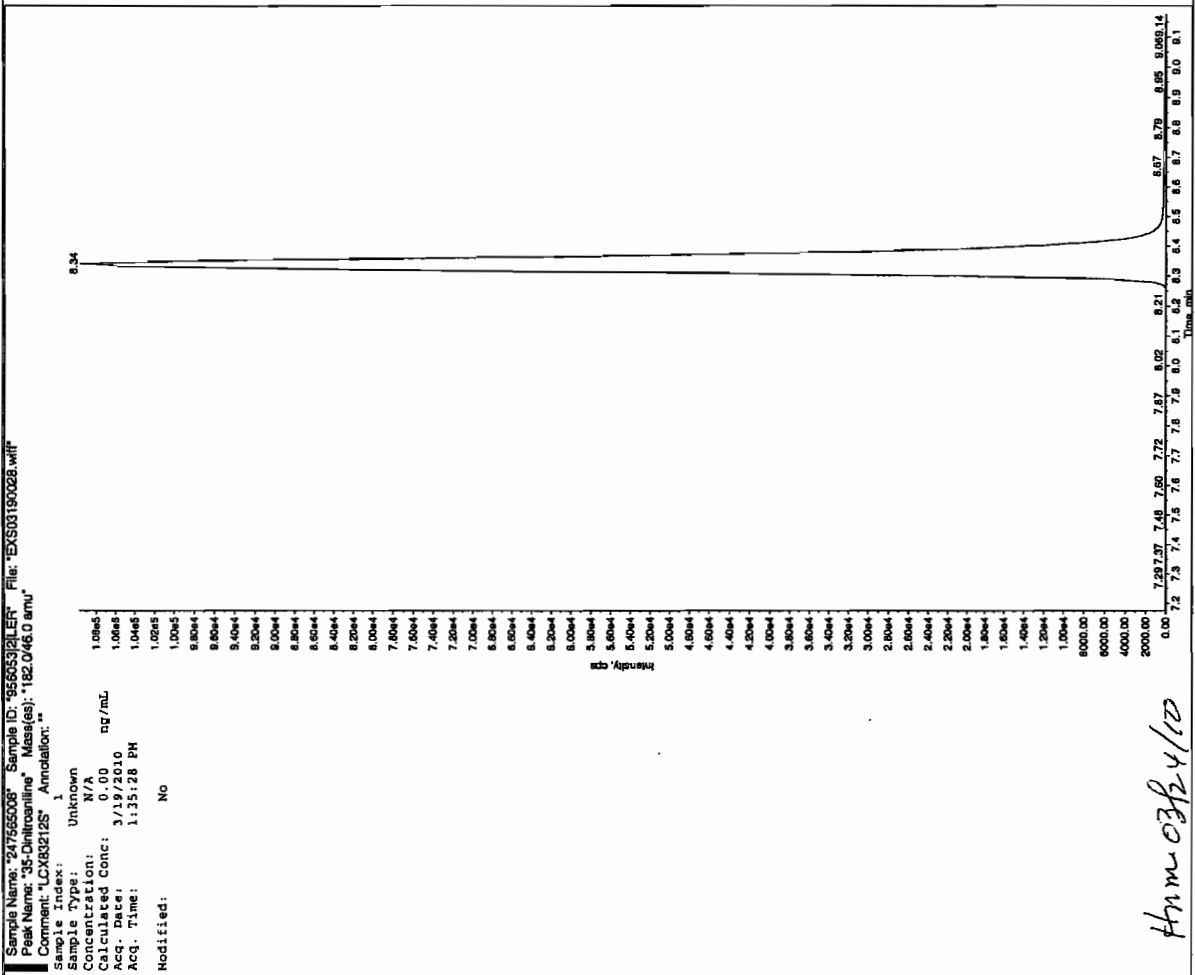
Units: ug/kg

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

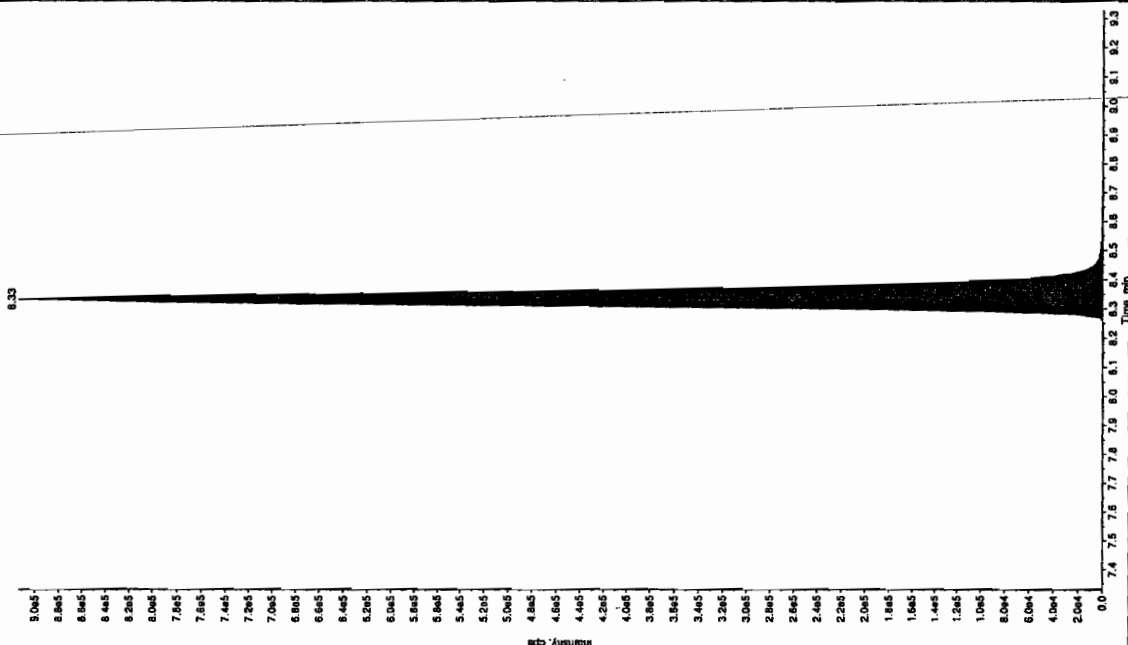
for 3/23/10



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

Sample Name: "24756508" Sample ID: "95603212" File: "EX503190028.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.046.0 amu"
 Comment: "LCX832125" Annotation: "

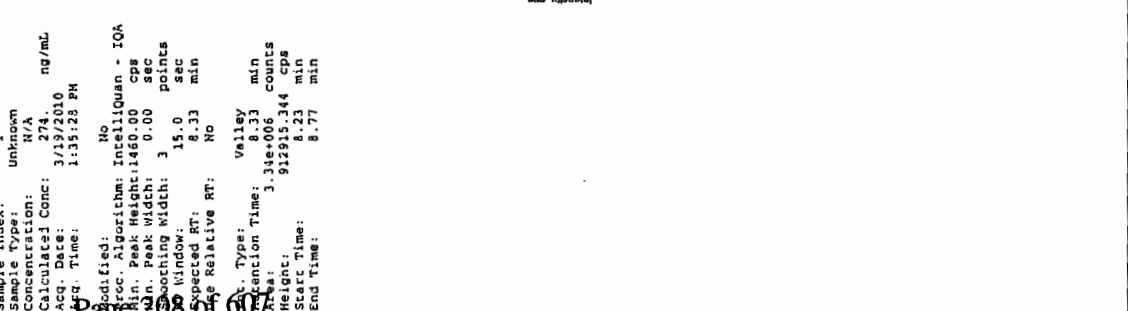
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 1.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:35:28 PM
 Modified: No



Sample Name: "24756508" Sample ID: "95603212" File: "EX503190028.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1151.9 amu"
 Comment: "LCX832125" Annotation: "

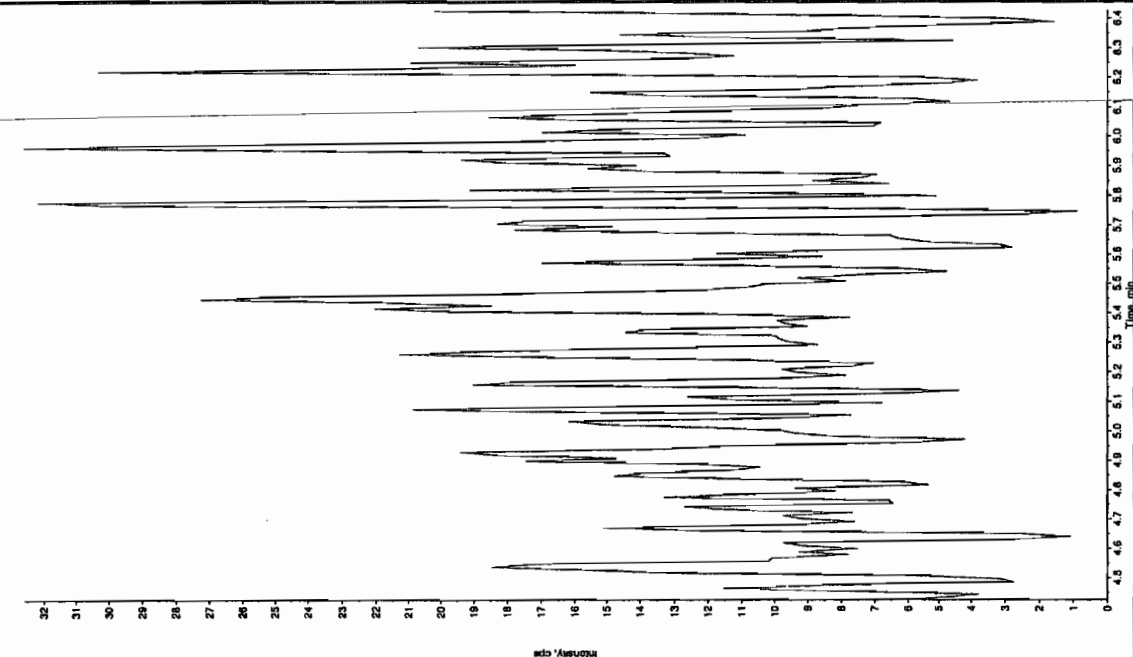
Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 3/19/2010
 Acq. Date: 3/19/2010
 Acq. Time: 1:35:28 PM
 Modified: No

Proc. Algorithm: IntelliQuan - IOA
 Ret. Peak Height: 1460.00 cps
 Ret. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 Window: 15.0 sec
 Expected RT: 8.33 min
 Sample Relative RT: No
 Ret. Type: Valley
 Retention Time: 8.33 min
 Area: 3.3e+006 counts
 Height: 912915.344 cps
 Start Time: 8.23 min
 End Time: 8.77 min



Sample Name: "247565008" Sample ID: "956053121.E" File: "EX503190028.wif"
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "569.10/1.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:35:28 PM
 Modified: No



Sample Name: "247565008" Sample ID: "956053121.E" File: "EX503190028.wif"
 Peak Name: "24-Diamino-6-microdurene" Mass(es): "166.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:35:28 PM
 Modified: No



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323016a

Date Analyzed: 23-MAR-10 16:31

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\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323016a

Date: 23-Mar-2010

Time: 16:31:17

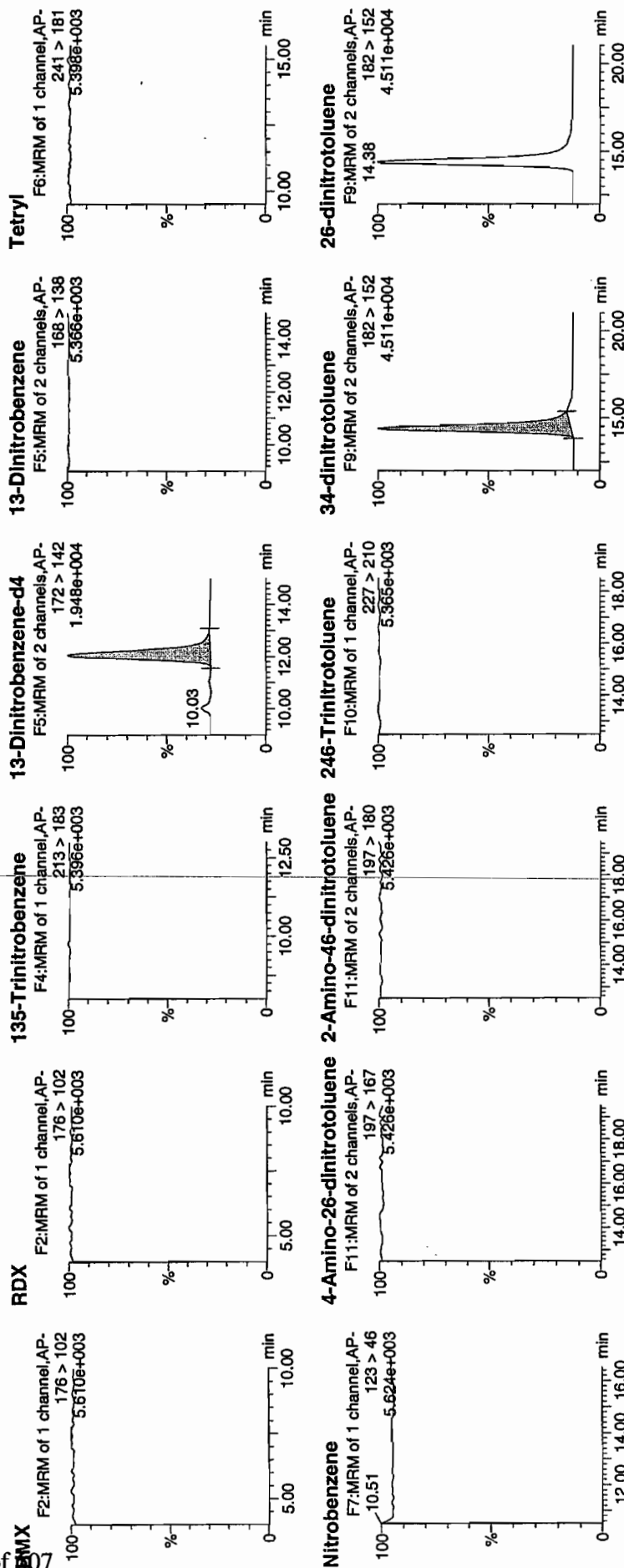
ID: 247565009

Vial: 1:3,D

1677
 3/24/10

WV 95053 | 8003 | 21

of 87

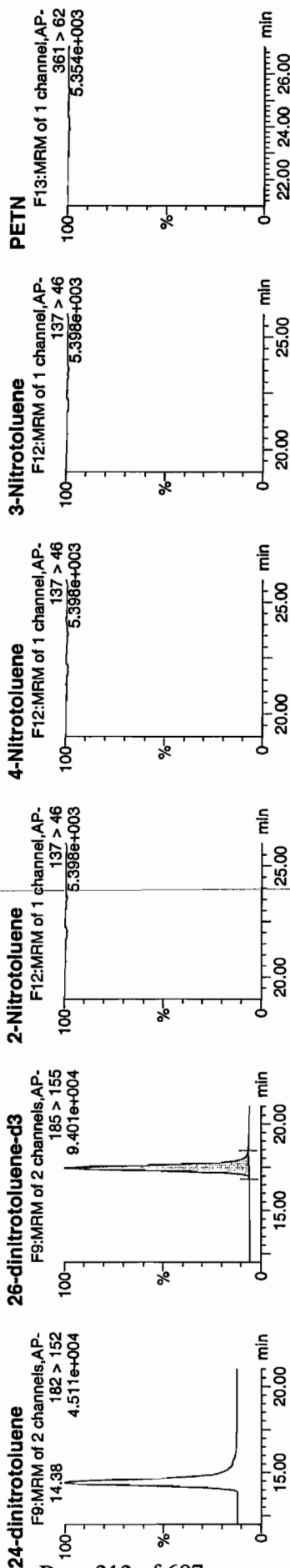


Handwritten signature: *Amc 03/24/10*

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

[illegible]

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8268

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565009

Sample Amount 2

Moisture: 2.7

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190029.wiff

Date Analyzed: 19-MAR-10 13:51

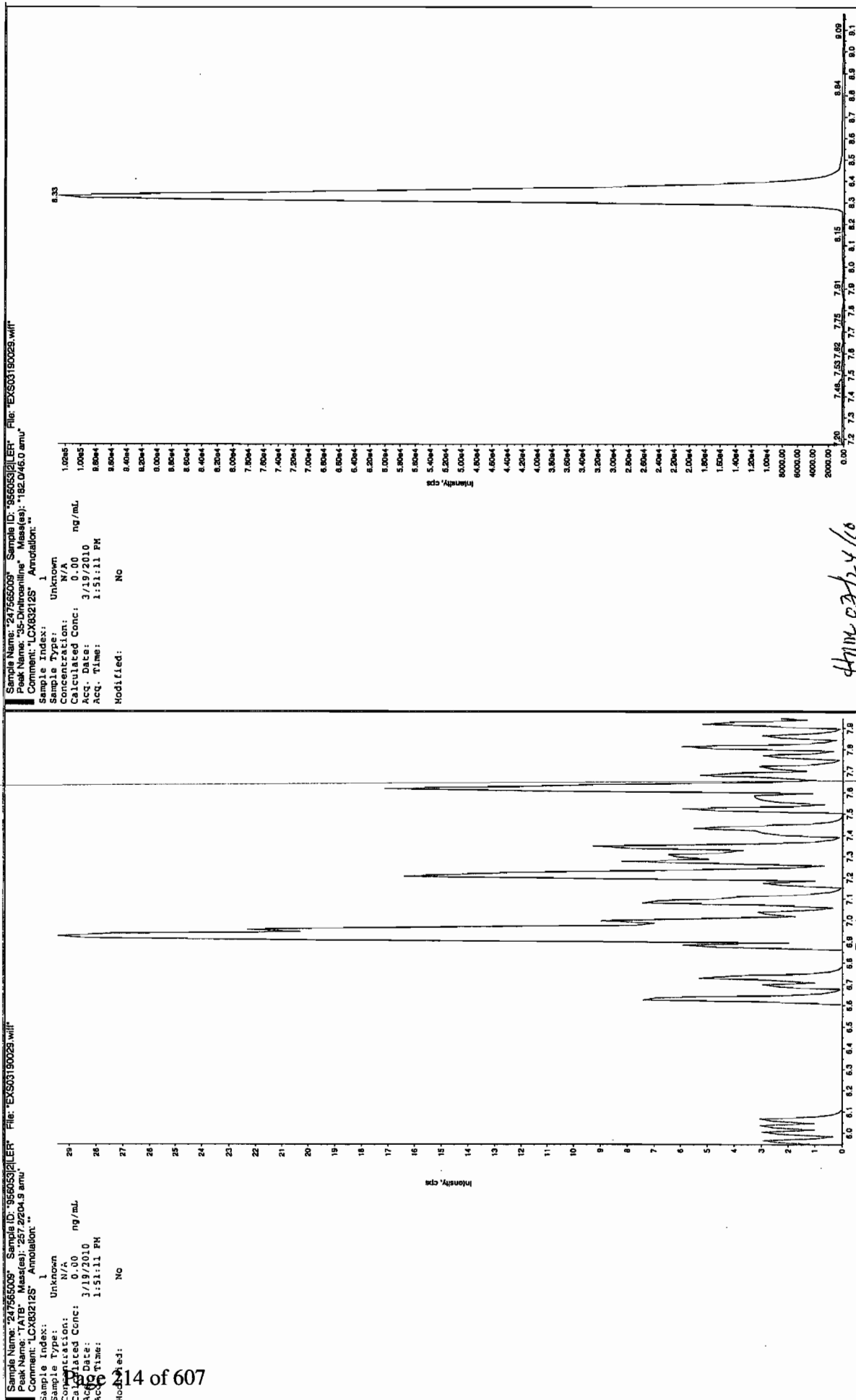
Units: ug/kg

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

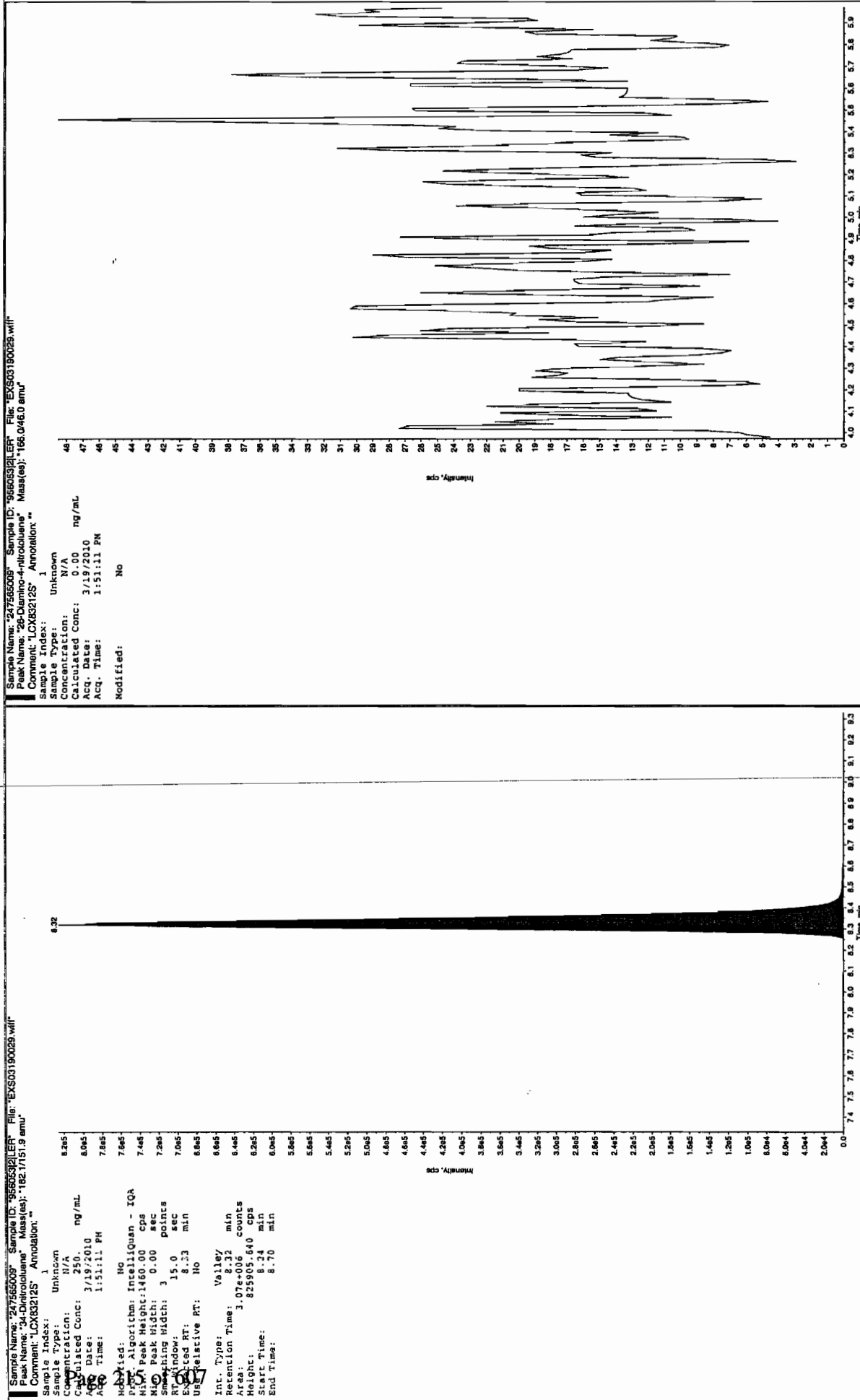
*Concentration =

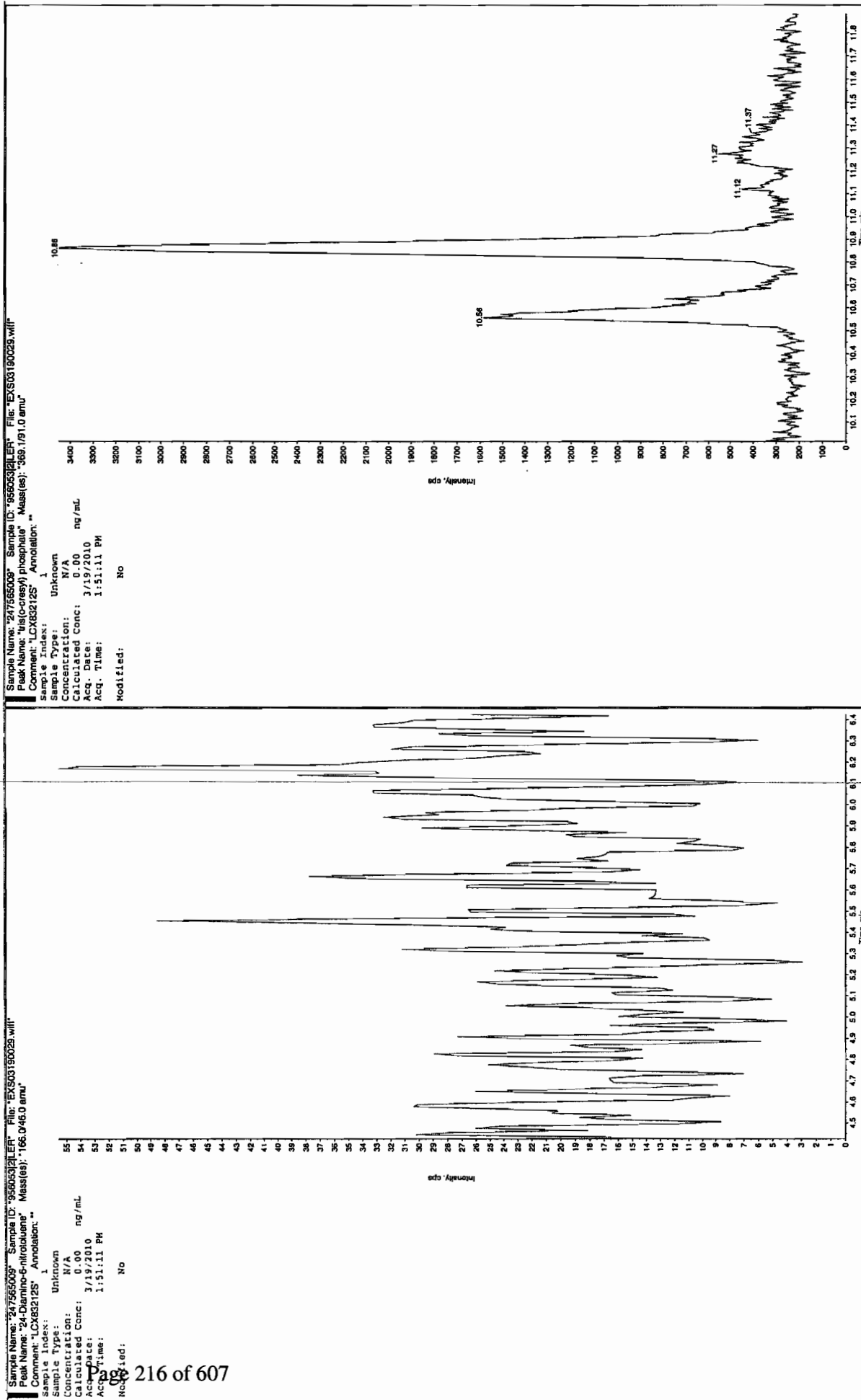
Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$ X Dilution Factor

Jan 3/23/10



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





1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0323017a

Date Analyzed: 23-MAR-10 17:00

Units: ug/kg

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

*Concentration =

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

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Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323017a

Date: 23-Mar-2010

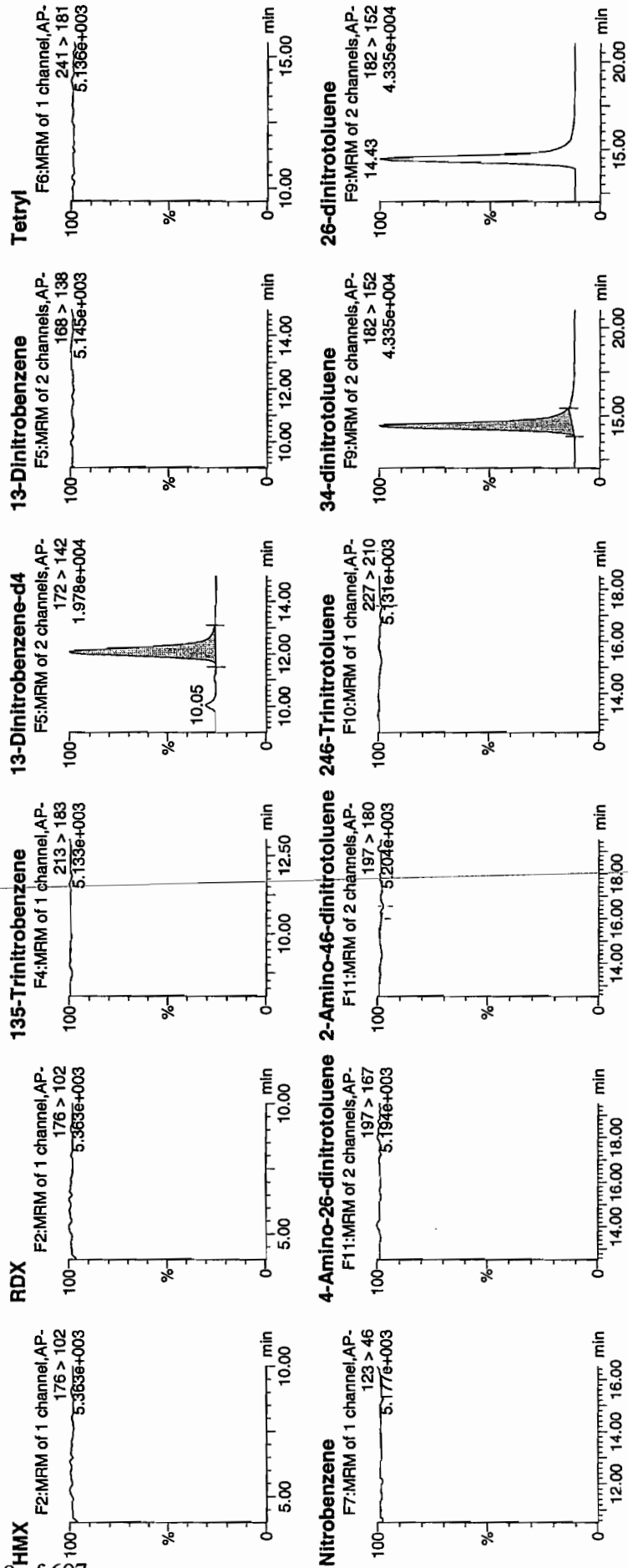
Time: 17:00:45

ID: 247565010

Vial: 1:3,E

1677
3/24/10

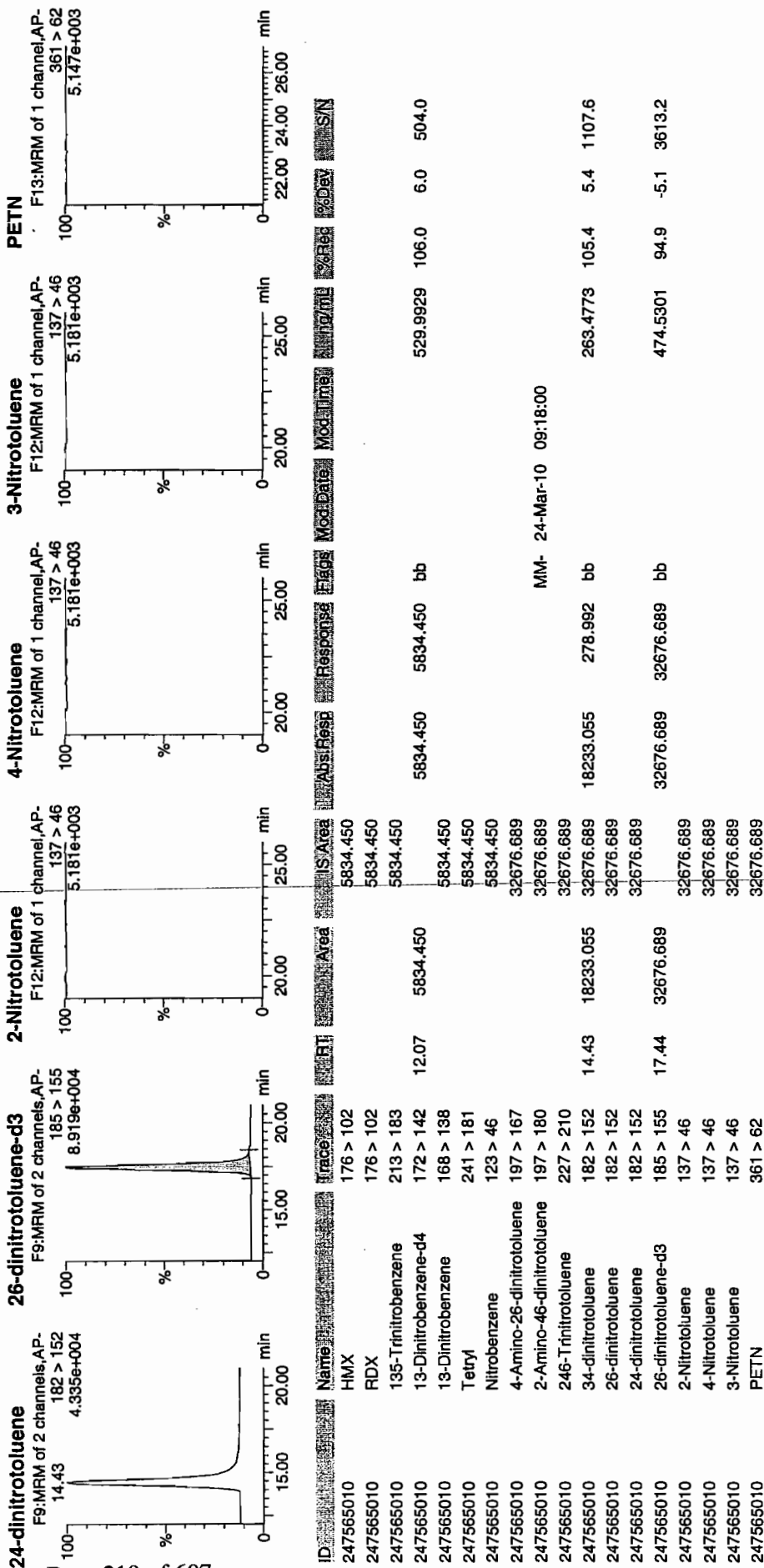
956053 | 80177 | 21



Handwritten signature: HANU 03/24/10

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

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8264

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 247565010

Sample Amount 2

Moisture: 3.9

Amount Units g

Date Received: 20-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03190030.wiff

Date Analyzed: 19-MAR-10 14:06

Units: ug/kg

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

*Concentration =

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

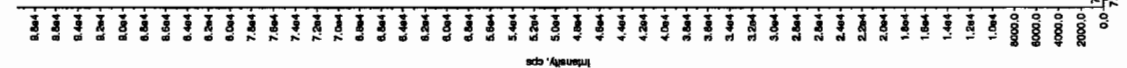
for 3/23/10

Sample Name: "247555010" Sample ID: "95605321ER" File: "EX503190030.wif"

Peak Name: "5-Dihydroxybenzidine" Mass(es): "182.046.0 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 2:06:54 PM
 Modified: No



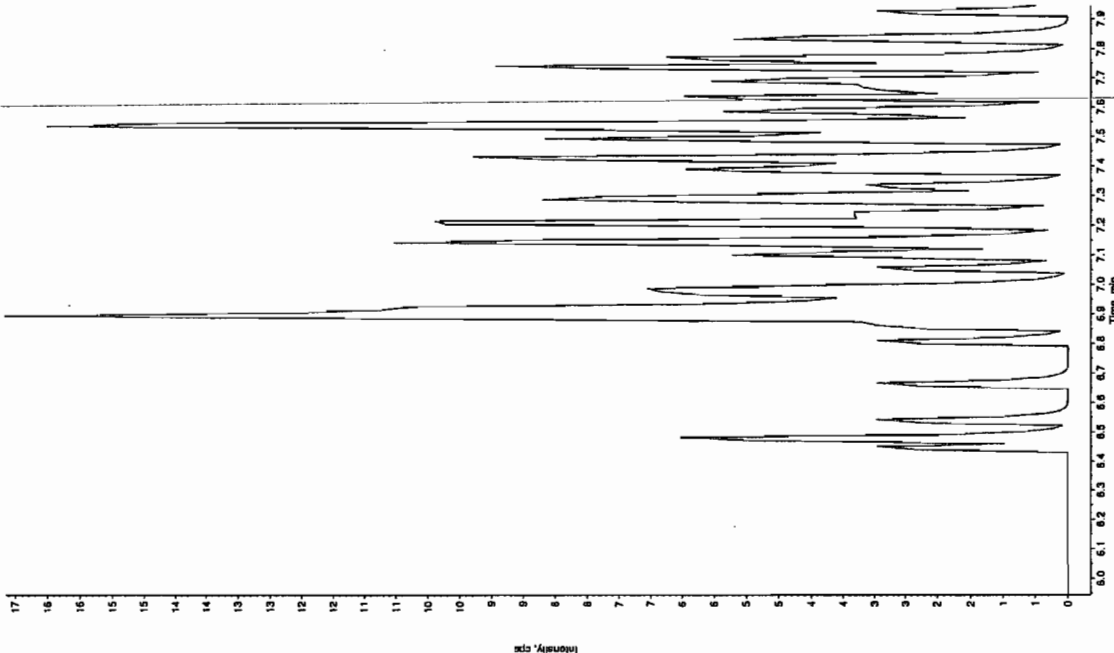
Hum 03/24/10

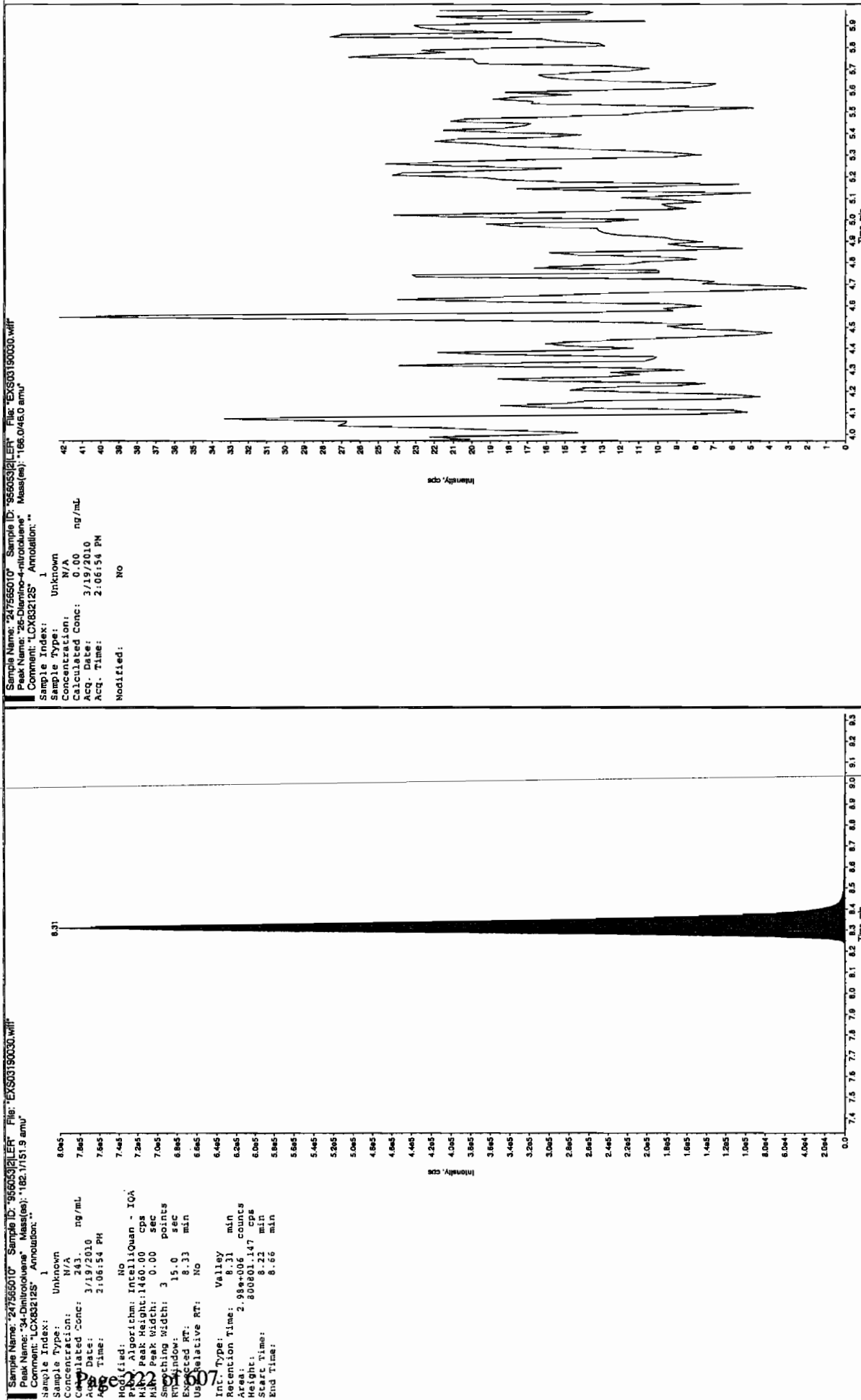
Sample Name: "247555010" Sample ID: "95605321ER" File: "EX503190030.wif"

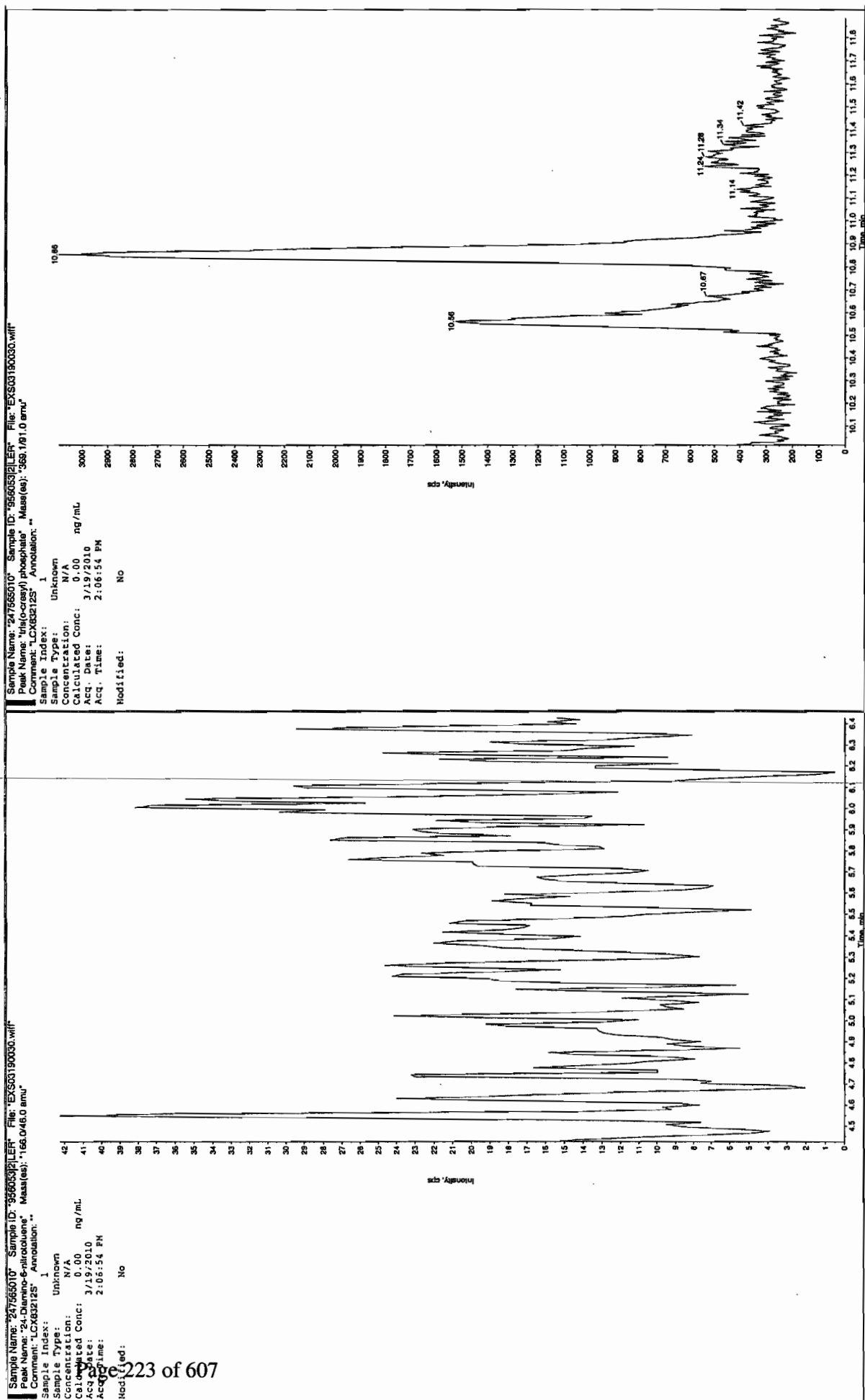
Peak Name: "1A1B" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: "

Sample Index: 1
 Sample Type: Unknown
 Concentrated Conc: 0.00 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 2:06:54 PM
 Modified: No







STANDARDS DATA

**SW846 8321A Modified-Explosives
Calibration Standard Concentration Levels**

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	CCV
3,4-Dinitrotoluene (Surrogate)	12.5	25	100	200	400	500		300
Primary Analytes								
HMX	25	50	200	400	800	1000	na	600
RDX	25	50	200	400	800	1000	na	600
DNX	25	50	200	400	800	1000	na	600
MXN	25	50	200	400	800	1000	na	600
TNX	25	50	200	400	800	1000	na	600
1,3,5-Trinitrobenzene	25	50	200	400	800	1000	na	600
1,3-Dinitrobenzene	25	50	200	400	800	1000	na	600
Nitrobenzene	25	50	200	400	800	1000	na	600
Tetryl	25	50	200	400	800	1000	na	600
Nitroglycerin	50	100	200	400	800	1000	na	600
2,4,6-Trinitrotoluene	25	50	200	400	800	1000	na	600
2-Amino-4,6-dinitrotoluene	25	50	200	400	800	1000	na	600
4-Amino-2,6-dinitrotoluene	25	50	200	400	800	1000	na	600
2,4-Dinitrotoluene	25	50	200	400	800	1000	na	600
2,6-Dinitrotoluene	25	50	200	400	800	1000	na	600
2-Nitrotoluene	25	50	200	400	800	1000	na	600
4-Nitrotoluene	25	50	200	400	800	1000	an	600
3-Nitrotoluene	25	50	200	400	800	1000	na	600
PETN	25	50	200	400	800	1000	na	600
Picric Acid	200	400	1600	3200	6400	8000	na	4800
3,4-Dinitrotoluene (Surrogate)	25	50	125	250	375	500	1000	250
Secondary Analytes								
2,4-Diamino-6-nitrotoluene	50	100	250	500	750	1000	2000	500
2,6-Diamino-4-nitrotoluene	50	100	250	500	750	1000	2000	500
3,5-Dinitroaniline	50	100	250	500	750	1000	2000	500
TATB	50	100	250	500	750	1000	2000	500
tris(o-Cresyl)phosphate	50	100	250	500	750	1000	2000	500

All values are ug/L without the prep factor

Calibration Levels 8321A-Modified-EXPL.xls (08/09A)

Calibration Levels 8321A-Modified-EXPL.xls

Explosives Initial Calibration

Lab Name: GEL Laboratories LLCGEL Job No: 10-1956Lab Code: GELRun Date: 16-MAR-10.19-MAR-10.23-MAR-10LCMSMS Instrument ID: LCMSMSMethod: 8321A ModifiedHPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0319003a	EXP0319004a	EXP0319005a	EXP0319006a	EXP0319007a	EXP0319008a			
Data File:									
1,3,5-Trinitrobenzene	4.934	4.658	4.052	4.308	4.896	5.867	4.786	13.17	
1,3-Dinitrobenzene-d4	17.078	17.454	16.592	19.338	13.899	14.139	16.417	12.663	
2,4,6-Trinitrotoluene	.451	.404	.409	.331	.44	.542	0.430	16.164	
2,4-Dinitrotoluene	.239	.248	.246	.211	.249	.254	0.241	6.373	
2,6-Dinitrotoluene	1.106	1.153	1.116	1.085	1.162	1.147	1.128	2.683	
2,6-Dinitrotoluene-d3	97.958	93.948	90.487	115.944	84.041	76.417	93.133	14.513	
2-Amino-4,6-dinitrotoluene	.66	.538	.502	.526	.574	.766	0.594	16.922	
3,4-Dinitrotoluene	1.135	1.095	1.033	1.099	1.056	1.277	1.116	7.756	
4-Amino-2,6-dinitrotoluene	.406	.346	.352	.296	.362	.452	0.369	14.572	
HMX	4.054	4.355	4.659	3.304	5.158	3.924	4.242	15.066	
Nitrobenzene	.709	.661	.63	.684	.718	.766	0.695	6.827	
RDX	2.618	2.614	2.626	2.301	3.123	3.67	2.825	17.381	
Tetryl	1.115	1.134	1.207	1.016	1.261	1.326	1.177	9.47	
m-Dinitrobenzene	1.316	1.413	1.265	1.336	1.333	1.473	1.356	5.494	
m-Nitrotoluene	.061	.068	.05	.043	.056	.059	0.056	15.483	
o-Nitrotoluene	.106	.11	.083	.075	.093	.093	0.093	14.248	
p-Nitrotoluene	.051	.052	.043	.037	.047	.047	0.046	11.401	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10 19-MAR-10 23-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

Calibration Level:	1	2	3	4	5	6	Slope	Intercept	COD	Q
Data File:	EXP0319003a	EXP0319004a	EXP0319005a	EXP0319006a	EXP0319007a	EXP0319008a				
Parname										
PETN	3571.23	7118.35	24758.3	44512.9	76075.7	84107.2	1.086	14.643	.9933	

Linear fit: $Y=mx + b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

* Values outside of QC Limit

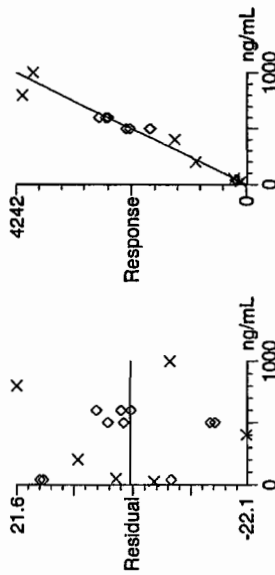
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

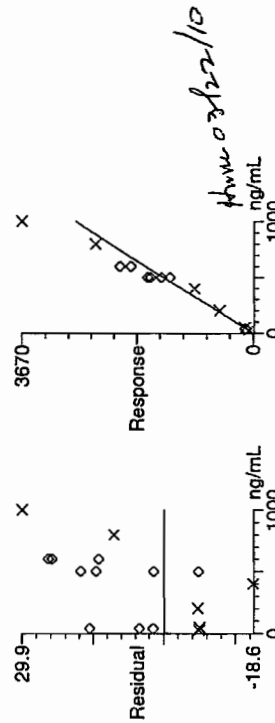
Method: C:\MASSLYNX\New_Exp\PRO\MethDB\031910expa.mdb, Time: Sat Mar 20 10:50:15 2010
Calibration: Untitled, Time: Sat Mar 20 11:05:24 2010

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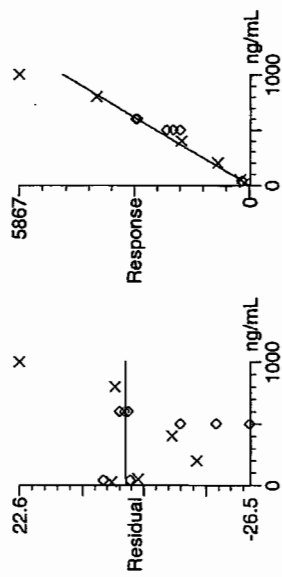
Compound name: HMX
Response Factor: 4.24242
RRF SD: 0.639182, % Relative SD: 15.0664
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



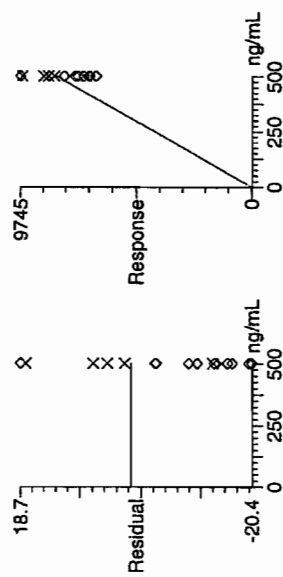
Compound name: RDX
Response Factor: 2.82542
RRF SD: 0.491092, % Relative SD: 17.3812
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 135-Trinitrobenzene
Response Factor: 4.78565
RRF SD: 0.630251, % Relative SD: 13.1696
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



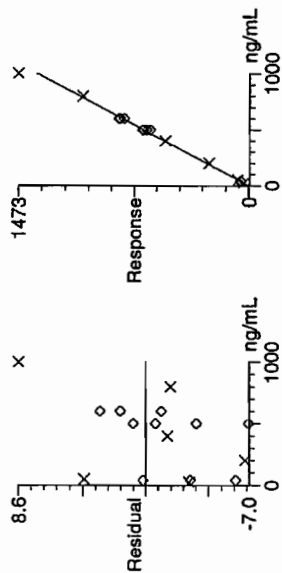
Compound name: 13-Dinitrobenzene-d4
Response Factor: 16.4163
RRF SD: 2.0788, % Relative SD: 12.663
Response type: External Std, Area
Curve type: RF



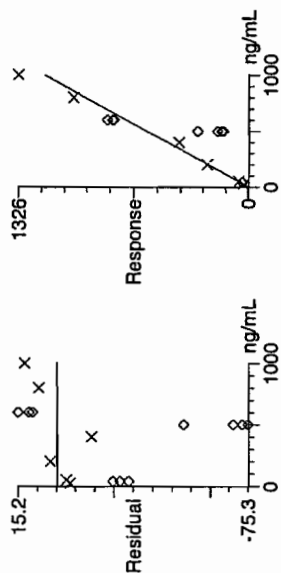
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 13-Dinitrobenzene
 Response Factor: 1.35599
 RRF SD: 0.0744962, % Relative SD: 5.49386
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: Tetra
 Response Factor: 1.17668
 RRF SD: 0.111431, % Relative SD: 9.46995
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF

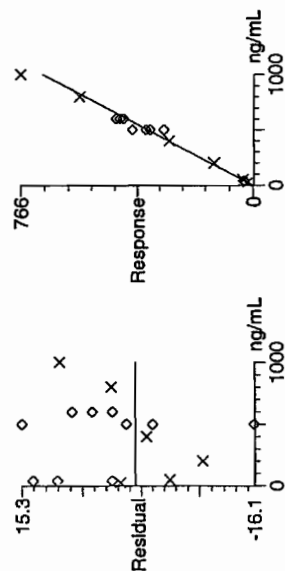


Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

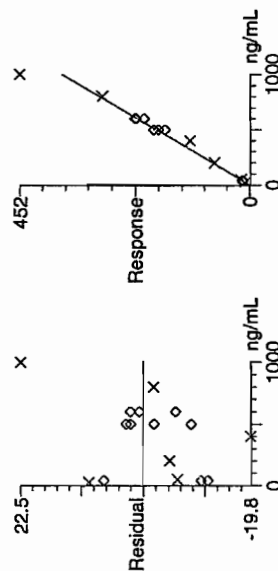
Dataset: C:\MASSLYN\New_Exp\PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: Nitrobenzene
Response Factor: 0.69451
RIF SD: 0.0474118, % Relative SD: 6.82665
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

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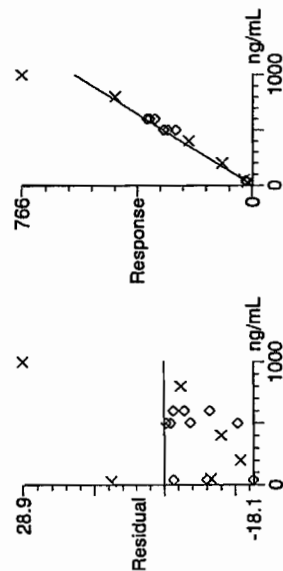
Compound name: 4-Amino-26-dinitrotoluene
Response Factor: 0.36909
RIF SD: 0.0537838, % Relative SD: 14.572
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



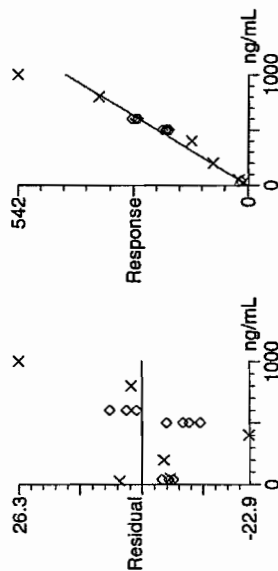
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.594147
 RRF SD: 0.100543, % Relative SD: 16.9222
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



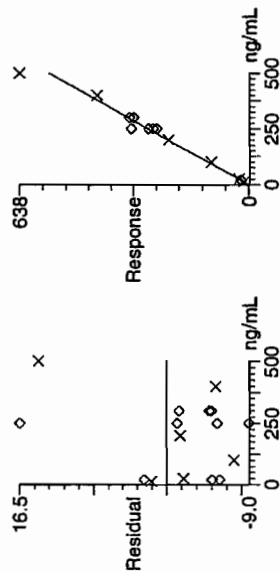
Compound name: 246-Trinitrotoluene
 Response Factor: 0.4294
 RRF SD: 0.0694084, % Relative SD: 16.164
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



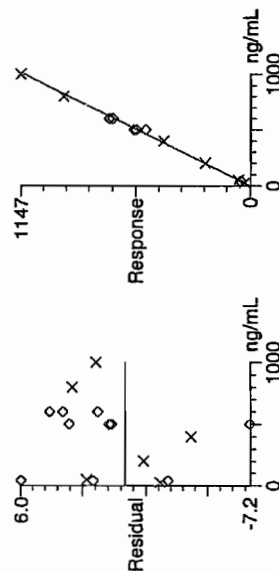
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYN\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 34-dinitrotoluene
Response Factor: 1.11594
RRF SD: 0.0865532, % Relative SD: 7.75611
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



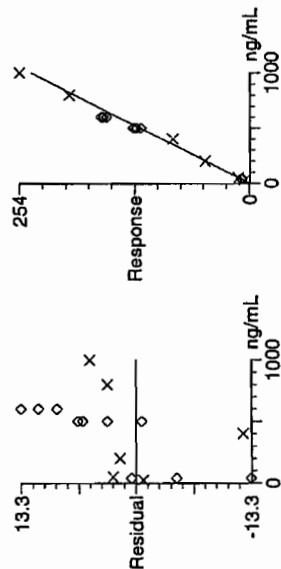
Compound name: 26-dinitrotoluene
Response Factor: 1.12816
RRF SD: 0.0302691, % Relative SD: 2.68306
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



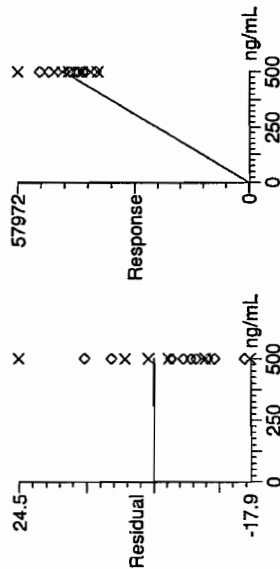
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 24-dinitrotoluene
Response Factor: 0.241092
RRF SD: 0.0153653, % Relative SD: 6.3732
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



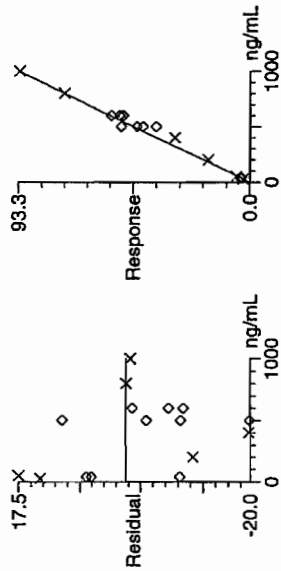
Compound name: 26-dinitrotoluene-d3
Response Factor: 93.1325
RRF SD: 13.516, % Relative SD: 14.5127
Response type: External Std, Area
Curve type: RF



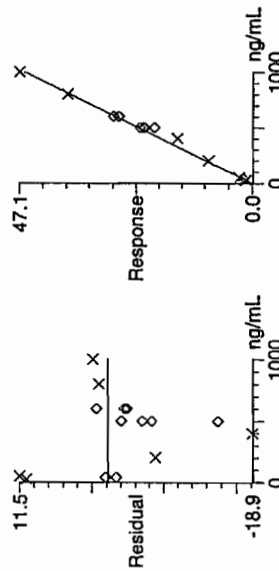
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 2-Nitrotoluene
 Response Factor: 0.0933197
 RRF SD: 0.0132962, % Relative SD: 14.2481
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



Compound name: 4-Nitrotoluene
 Response Factor: 0.0461933
 RRF SD: 0.00526639, % Relative SD: 11.4008
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF

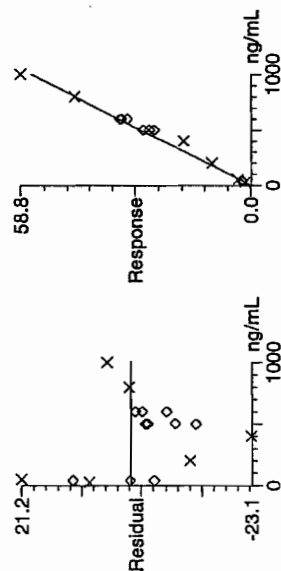


Quantify Calibration Report GEL Laboratories, LLC / Analyst : Michael A. Penny

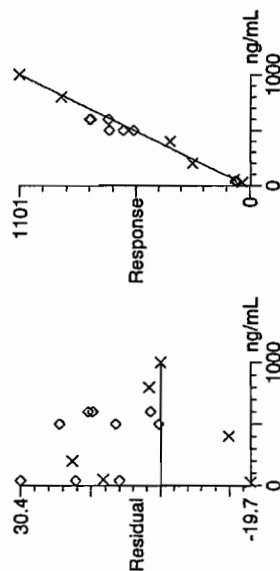
Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0562003
RRF SD: 0.00870123, % Relative SD: 15.4825
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF

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Compound name: PETN
Correlation coefficient: $r = 0.996647$, $r^2 = 0.993305$
Calibration curve: $1.08596 * x + 14.643$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0319010a

Analysis Date: 19-MAR-10 21:19

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
PETN	600	613.34	102	
RDX	600	746.638	124	*
Tetryl	600	666.124	111	
m-Dinitrobenzene	600	618.738	103	
m-Nitrotoluene	600	586.775	98	
o-Nitrotoluene	600	558.066	93	
p-Nitrotoluene	600	584.772	97	
1,3,5-Trinitrobenzene	600	601.679	100	
1,3-Dinitrobenzene-d4	500	400.213	80	
2,4,6-Trinitrotoluene	600	607.061	101	
2,4-Dinitrotoluene	600	679.677	113	
2,6-Dinitrotoluene	600	621.301	104	
2,6-Dinitrotoluene-d3	500	448.99	90	
2-Amino-4,6-dinitrotoluene	600	545.067	91	
3,4-Dinitrotoluene	300	285.258	95	
4-Amino-2,6-dinitrotoluene	600	565.303	94	
HMX	600	599.565	100	
Nitrobenzene	600	651.909	109	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319010a

Date: 19-Mar-2010

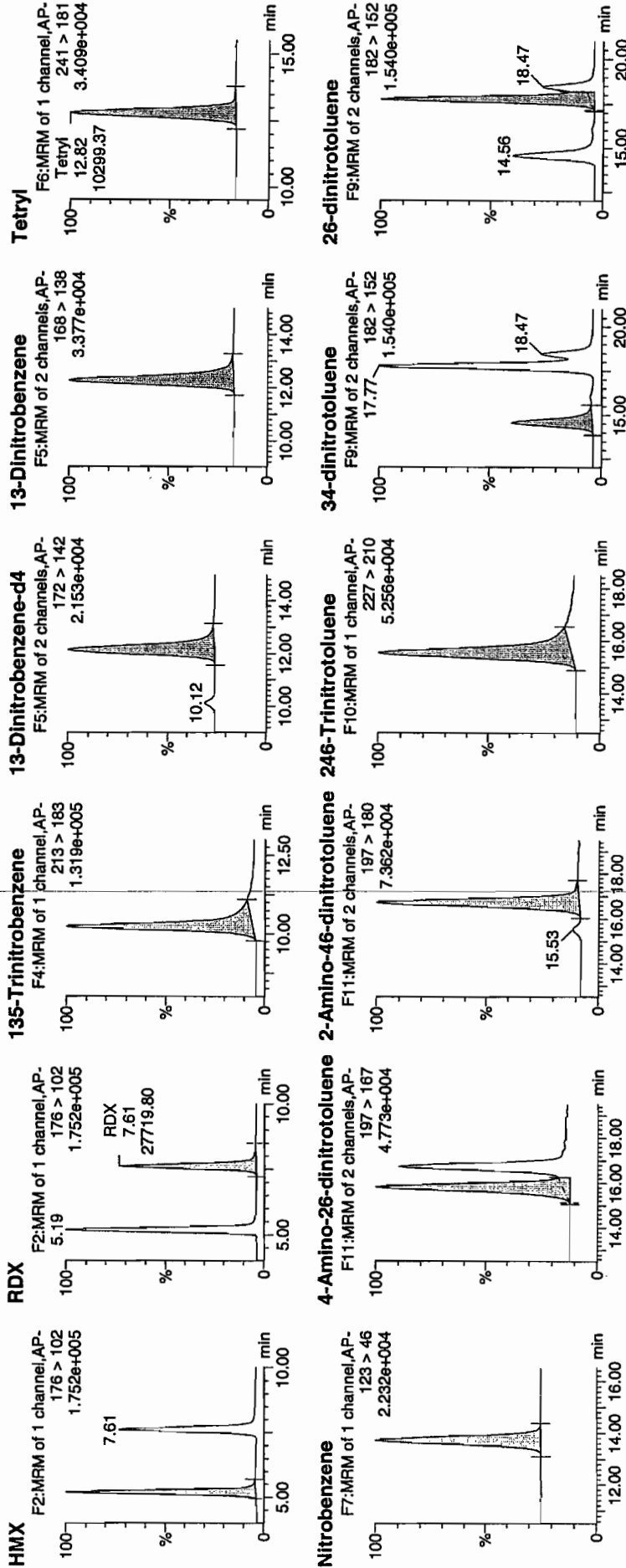
Time: 21:19:38

ID: WXX100319-07ICV

Vial: 1:1,B

238 of 607

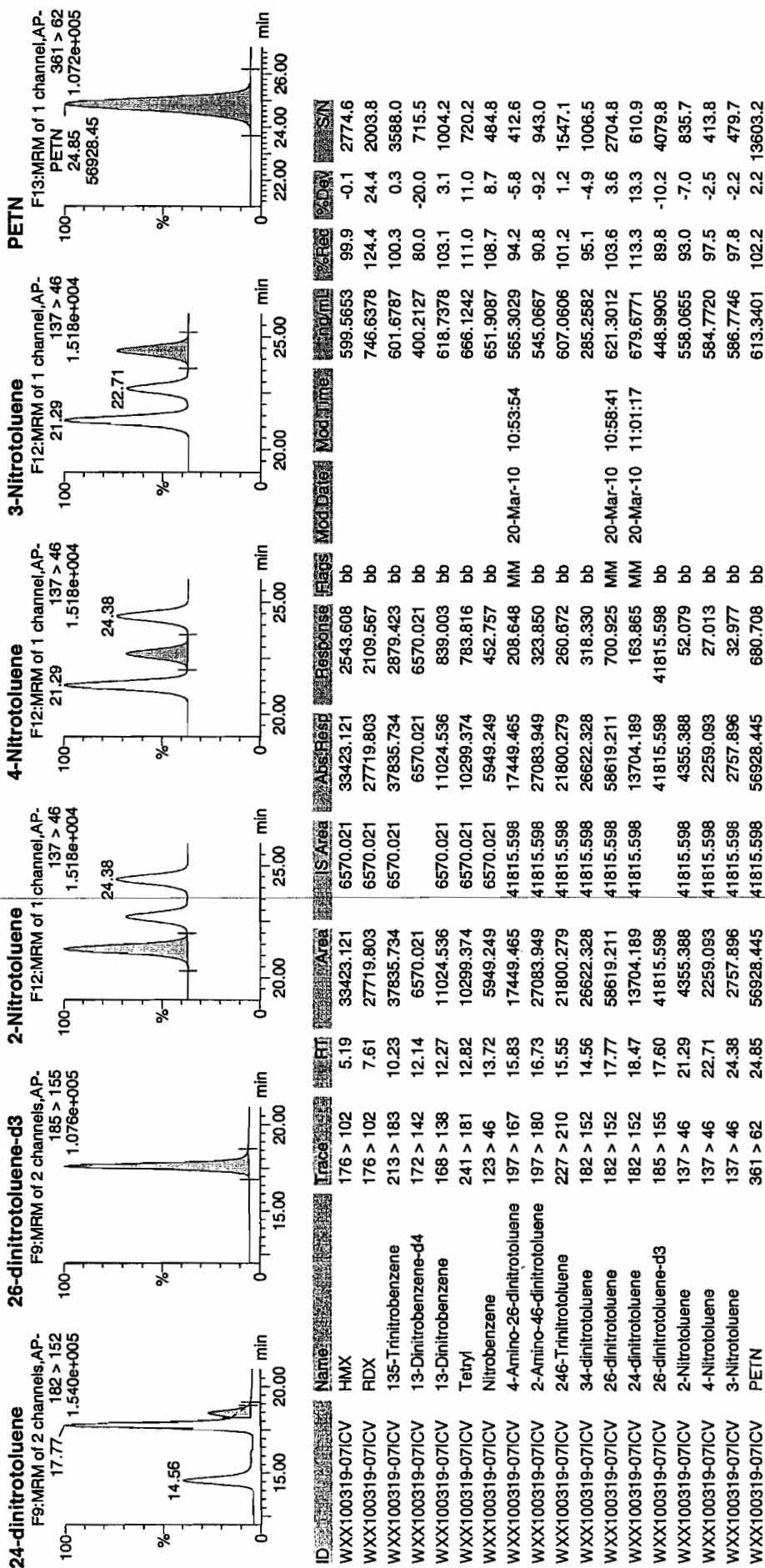
MRM
3/20/10



Handwritten signature/initials

Dataset: C:\MASSLYNX\New_Exp\PROV031910expA.qld, Time: Sat Mar 20 11:05:24 2010

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GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/19/10
 Time of Injection: 2119
 Standard Number: WXX100319-07ICV
 Data File: EXP0319010a

HMX	99.9
RDX	124.4
135-TNB	100.3
13-DNB	103.1
Tetryl	111.0
Nitrobenzene	108.7
4A-26-DNT	94.2
2A-46-DNT	90.8
246-TNT	101.2
34-DNT(surr)	95.1
26-DNT	103.6
24-DNT	113.3
2-NT	93.0
4-NT	97.5
3-NT	97.8
PETN	102.2

//
//
//

Handwritten: 1007 3/22/10

Total 1636.1

Handwritten: HMM 03/22/10

Average 102.3

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10 19-MAR-10 23-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Parname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a			
Data File:									
1,3,5-Trinitrobenzene	5.032	4.994	4.537	4.6	4.618	4.575	4.726	4.748	
1,3-Dinitrobenzene-d4	11.754	12.906	11.01	10.6	10.117	9.664	11.009	10.69	
2,4,6-Trinitrotoluene	.424	.368	.38	.453	.443	.394	0.410	8.493	
2,4-Dinitrotoluene	.262	.293	.273	.265	.282	.289	0.277	4.587	
2,6-Dinitrotoluene	1.112	1.205	1.106	1.163	1.182	1.174	1.157	3.448	
2,6-Dinitrotoluene-d3	82.805	73.801	67.998	67.968	62.879	57.717	68.861	12.666	
2-Amino-4,6-dinitrotoluene	.508	.507	.537	.569	.587	.577	0.548	6.473	
3,4-Dinitrotoluene	.915	.995	1.13	1.083	1.133	1.097	1.059	8.15	
4-Amino-2,6-dinitrotoluene	.347	.327	.35	.36	.369	.368	0.354	4.504	
HMX	5.311	4.69	5.261	6.242	6.079	5.497	5.513	10.373	
Nitrobenzene	.686	.654	.672	.653	.651	.615	0.655	3.64	
RDX	3.229	2.859	3.253	3.567	3.545	3.415	3.311	7.936	
Tetryl	1.129	1.002	1.143	1.22	1.115	1.273	1.147	8.152	
m-Dinitrobenzene	1.371	1.208	1.328	1.336	1.345	1.381	1.328	4.687	
m-Nitrotoluene	.051	.048	.054	.052	.048	.049	0.050	4.981	
o-Nitrotoluene	.076	.089	.078	.08	.079	.082	0.081	5.666	
p-Nitrotoluene	.03	.046	.039	.039	.039	.04	0.039	13.369	

Q column used to flag RSD values outside of Limit (>20%)

* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10.19-MAR-10.23-MAR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Linear

	1	2	3	4	5	6	Slope	Intercept	COD	Q
Calibration Level:										
Data File:	EXP0323003a	EXP0323004a	EXP0323005a	EXP0323006a	EXP0323007a	EXP0323008a				
Parname										
PETN	2318.77	4444.01	14597.9	26021	45749.6	53868.3	.909	16.24	.9989	

Linear fit : $Y=mx +b$
where b is Intercept and m is slope

COD is Coefficient of Determination

Q column used to flag COD values outside of Limit (<0.990)

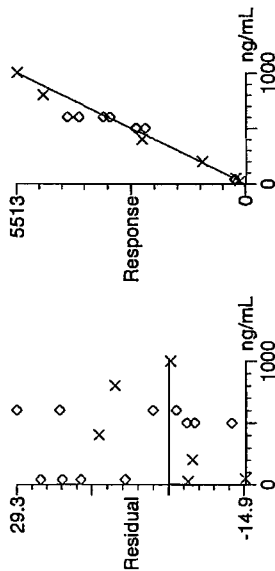
* Values outside of QC Limit

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

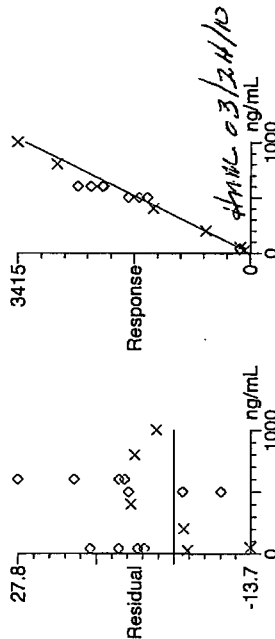
Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Method: C:\MASSLYNX\New_Exp\PRO\MethDB\032310expa.mdb, Time: Tue Mar 23 14:06:48 2010
Calibration: Untitled, Time: Wed Mar 24 09:29:41 2010

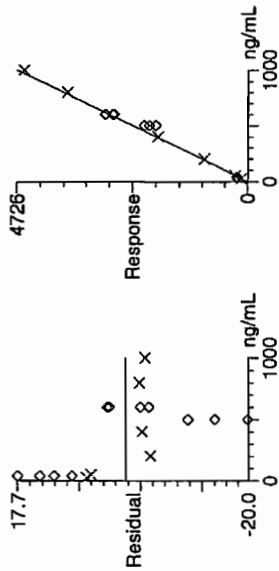
Compound name: HMX
Response Factor: 5.51311
RRF SD: 0.571885, % Relative SD: 10.3732
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



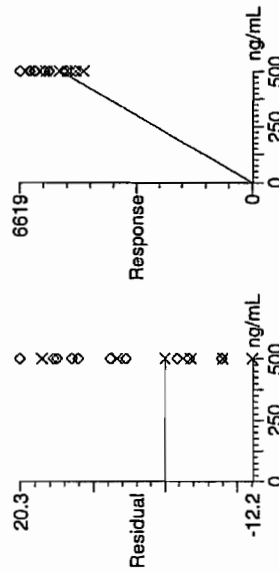
Compound name: RDX
Response Factor: 3.31129
RRF SD: 0.26278, % Relative SD: 7.93586
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: 135-Trinitrobenzene
Response Factor: 4.7262
RRF SD: 0.224421, % Relative SD: 4.74845
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



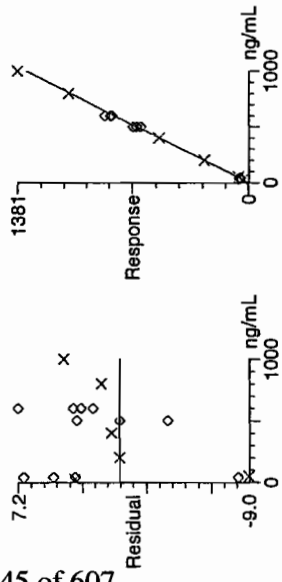
Compound name: 13-Dinitrobenzene-d4
Response Factor: 11.0085
RRF SD: 1.17683, % Relative SD: 10.6902
Response type: External Std, Area
Curve type: RF



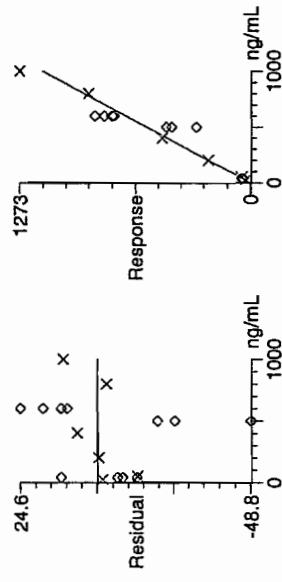
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 13-Dinitrobenzene
Response Factor: 1.32795
RRF SD: 0.0622466, % Relative SD: 4.68744
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: Tetra
Response Factor: 1.14683
RRF SD: 0.0934919, % Relative SD: 8.15221
Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
Curve type: RF

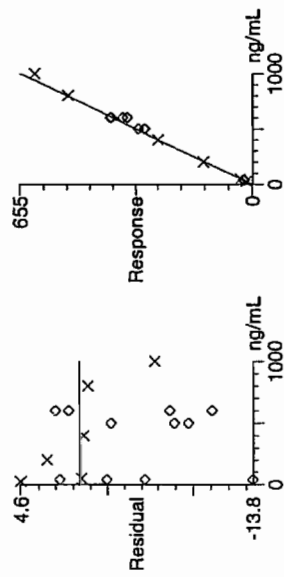


Quantify Calibration Report

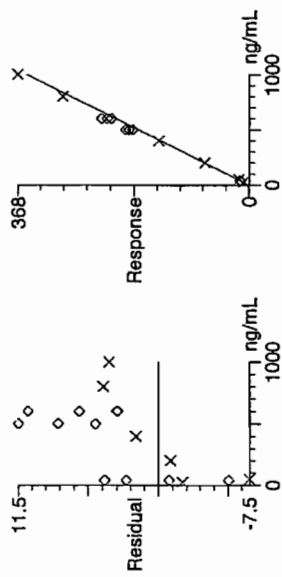
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: Nitrobenzene
 Response Factor: 0.655153
 RRF SD: 0.0238446, % Relative SD: 3.63954
 Response type: Internal Std (Ref 4), Area * (IS Conc. / IS Area)
 Curve type: RF



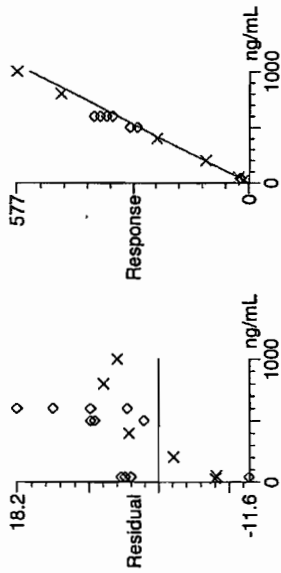
Compound name: 4-Amino-26-dinitrotoluene
 Response Factor: 0.353375
 RRF SD: 0.0159163, % Relative SD: 4.50407
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



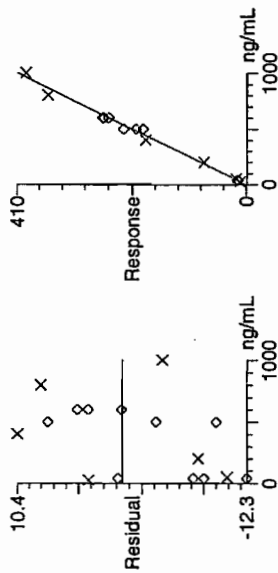
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 2-Amino-46-dinitrotoluene
 Response Factor: 0.547585
 RRF SD: 0.0354456, % Relative SD: 6.47307
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



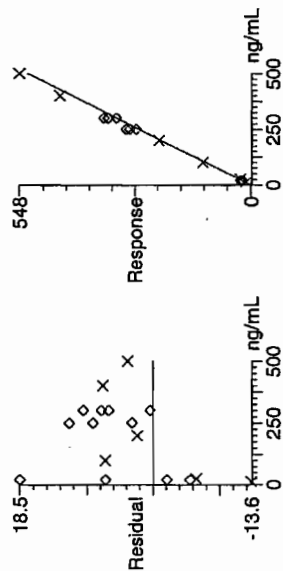
Compound name: 246-Trinitrotoluene
 Response Factor: 0.410071
 RRF SD: 0.0348258, % Relative SD: 8.49263
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



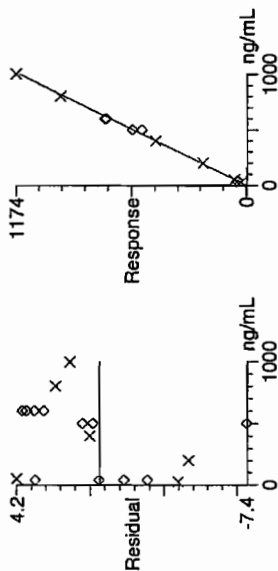
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 34-dinitrotoluene
Response Factor: 1.05888
RRF SD: 0.0862978, % Relative SD: 8.14988
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



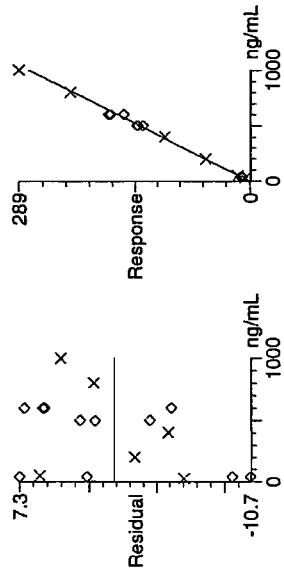
Compound name: 26-dinitrotoluene
Response Factor: 1.15701
RRF SD: 0.0398889, % Relative SD: 3.44758
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



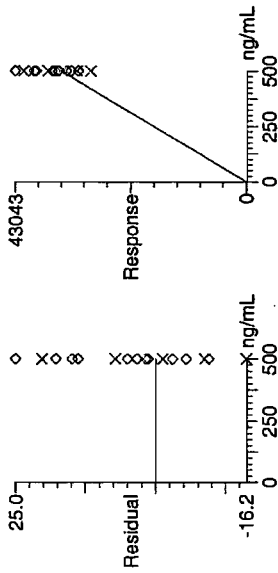
Quantify Calibration Report
 GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp\PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 24-dinitrotoluene
 Response Factor: 0.277495
 RRF SD: 0.0127293, % Relative SD: 4.58723
 Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
 Curve type: RF



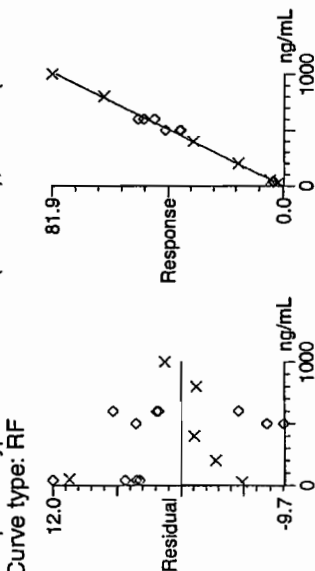
Compound name: 26-dinitrotoluene-d3
 Response Factor: 68.8611
 RRF SD: 8.72211, % Relative SD: 12.6662
 Response type: External Std, Area
 Curve type: RF



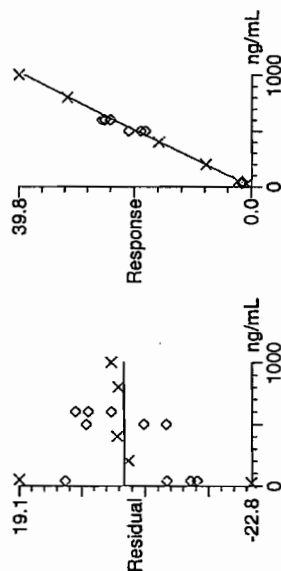
Quantify Calibration Report
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 2-Nitrotoluene
Response Factor: 0.0806432
RRF SD: 0.00456922, % Relative SD: 5.66596
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



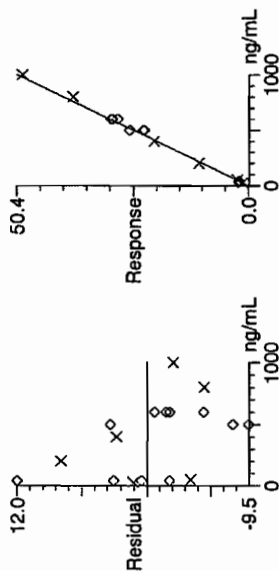
Compound name: 4-Nitrotoluene
Response Factor: 0.0389409
RRF SD: 0.00520599, % Relative SD: 13.369
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



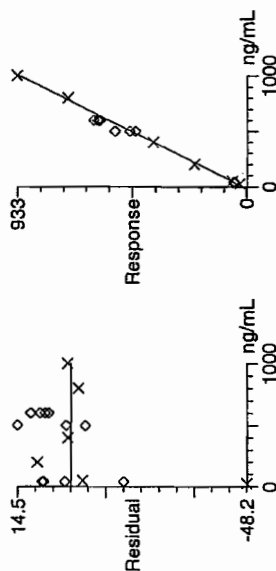
Quantify Calibration Report
GEL Laboratories, LLC / Analyst: Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Compound name: 3-Nitrotoluene
Response Factor: 0.0504212
RRF SD: 0.00251151, % Relative SD: 4.98107
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: RF



Compound name: PETN
Correlation coefficient: $r = 0.999467$, $r^2 = 0.998933$
Calibration curve: $0.908775 * x + 16.2395$
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: None



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXP0323010a

Analysis Date: 23-MAR-10 13:34

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	638.057	106	
p-Nitrotoluene	600	638.597	106	
1,3,5-Trinitrobenzene	600	585.721	98	
1,3-Dinitrobenzene-d4	500	460.269	92	
2,4,6-Trinitrotoluene	600	600.545	100	
2,4-Dinitrotoluene	600	572.778	95	
2,6-Dinitrotoluene	600	623.33	104	
2,6-Dinitrotoluene-d3	500	452.986	91	
2-Amino-4,6-dinitrotoluene	600	624.798	104	
3,4-Dinitrotoluene	300	301.181	100	
4-Amino-2,6-dinitrotoluene	600	620.044	103	
HMX	600	591.583	99	
Nitrobenzene	600	611.463	102	
PETN	600	650.548	108	
RDX	600	659.349	110	
Tetryl	600	669.49	112	
m-Dinitrobenzene	600	616.682	103	
m-Nitrotoluene	600	589.179	98	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0323010a

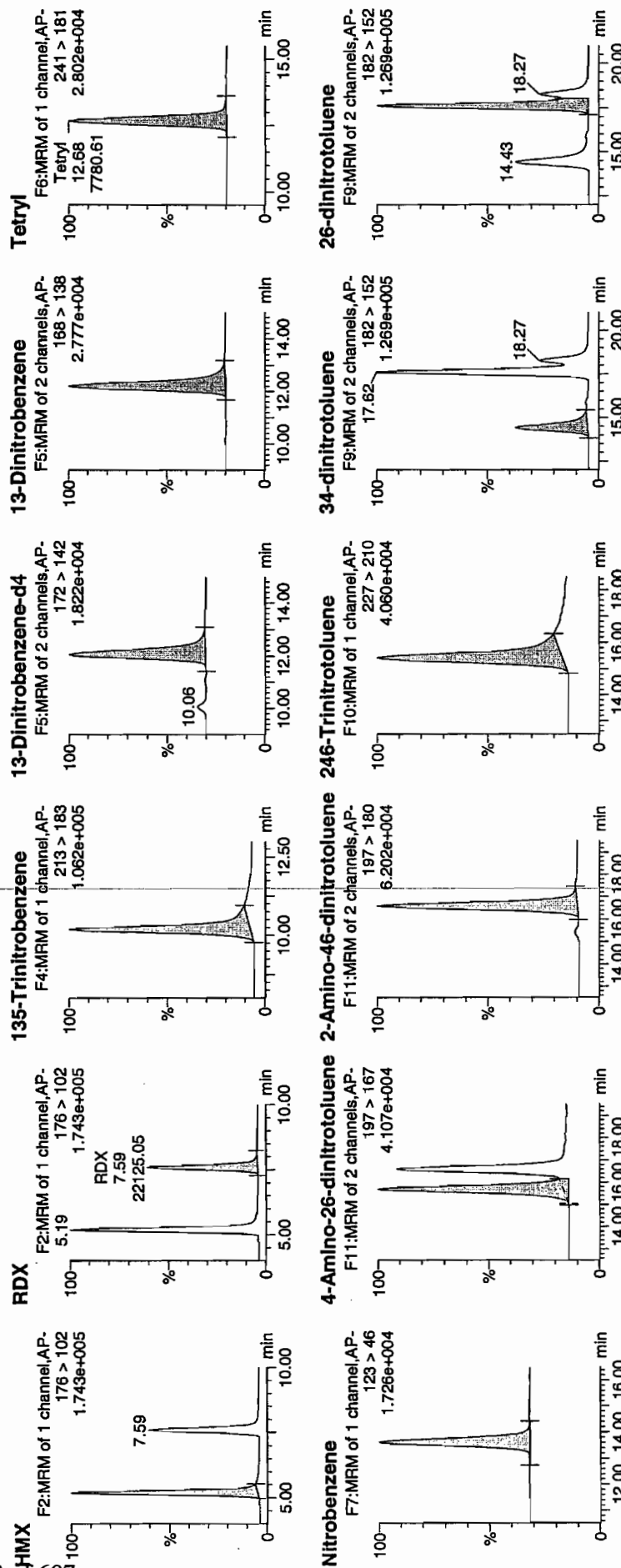
Date: 23-Mar-2010

Time: 13:34:21

ID: WXX100323-07CV

Vial: 1:1,B

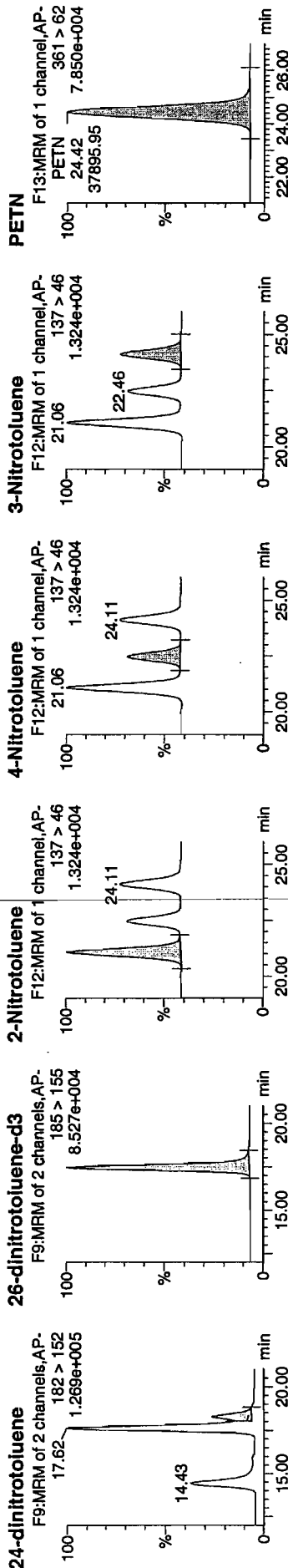
HTT
7/24/10



Handwritten note: 4/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	Rec	%Dev	SN
WXX100323-07ICV	HMX	176 > 102	5.19	33050.891	5066.889	33050.891	3261.458	bb			591.5827	98.6	-1.4	3114.5
WXX100323-07ICV	RDX	176 > 102	7.59	22125.049	5066.889	22125.049	2183.297	bb			659.3486	109.9	9.9	1844.8
WXX100323-07ICV	135-Trinitrobenzene	213 > 183	10.20	28052.678	5066.889	28052.678	2768.235	bb			585.7207	97.6	-2.4	680.8
WXX100323-07ICV	13-Dinitrobenzene-d4	172 > 142	12.07	5066.889		5066.889	5066.889	bb			460.2688	92.1	-7.9	654.9
WXX100323-07ICV	13-Dinitrobenzene	168 > 138	12.20	8298.761	5066.889	8298.761	818.921	bb			616.6825	102.8	2.8	626.3
WXX100323-07ICV	Tetryl	241 > 181	12.68	7780.609	5066.889	7780.609	767.790	bb			669.4895	111.6	11.6	568.8
WXX100323-07ICV	Nitrobenzene	123 > 46	13.63	4059.608	5066.889	4059.608	400.602	bb			611.4632	101.9	1.9	364.9
WXX100323-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.71	13669.333	31193.129	13669.333	219.108	MM	24-Mar-10	09:20:52	620.0440	103.3	3.3	363.1
WXX100323-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.58	21344.205	31193.129	21344.205	342.130	bb			624.7977	104.1	4.1	830.0
WXX100323-07ICV	246-Trinitrotoluene	227 > 210	15.41	15363.621	31193.129	15363.621	246.266	bb			600.5453	100.1	0.1	915.0
WXX100323-07ICV	34-dinitrotoluene	182 > 152	14.43	19895.975	31193.129	19895.975	318.916	bb			301.1814	100.4	0.4	986.3
WXX100323-07ICV	26-dinitrotoluene	182 > 152	17.62	44992.969	31193.129	44992.969	721.200	MM	24-Mar-10	09:24:13	623.3301	103.9	3.9	2899.5
WXX100323-07ICV	24-dinitrotoluene	182 > 152	18.27	9915.864	31193.129	9915.864	158.943	MM	24-Mar-10	09:27:39	572.7777	95.5	-4.5	617.5
WXX100323-07ICV	26-dinitrotoluene-d3	185 > 155	17.44	31193.129	31193.129	31193.129	31193.129	bb			452.9859	90.6	-9.4	2738.7
WXX100323-07ICV	2-Nitrotoluene	137 > 46	21.06	3210.082	31193.129	3210.082	51.455	bb			638.0566	106.3	6.3	1369.5
WXX100323-07ICV	4-Nitrotoluene	137 > 46	22.46	1551.393	31193.129	1551.393	24.868	bb			638.5974	106.4	6.4	626.4
WXX100323-07ICV	3-Nitrotoluene	137 > 46	24.11	1853.314	31193.129	1853.314	29.707	bb			589.1787	98.2	-1.8	714.8
WXX100323-07ICV	PETN	361 > 62	24.42	37895.953	31193.129	37895.953	607.441	bb			650.5475	108.4	8.4	14931.2



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1334
 Standard Number: WXX100323-07ICV
 Data File: EXP0323010a

HMX	98.6
RDX	109.9
135-TNB	97.6
13-DNB	102.8
Tetryl	111.6
Nitrobenzene	101.9
4A-26-DNT	103.3
2A-46-DNT	104.1
246-TNT	100.1
34-DNT(surr)	100.4
26-DNT	103.9
24-DNT	95.5
2-NT	106.3
4-NT	106.4
3-NT	98.2
PETN	108.4

Handwritten:
 3/24/10

Total 1649.0

Average 103.1

Handwritten: HPM 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10.19-MAR-10.23-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03160003.wif	EXS03160004.wif	EXS03160005.wif	EXS03160006.wif	EXS03160007.wif	EXS03160008.wif	EXS03160009.wif					
Parname:												
2,4-Diamino-6-nitrotoluene	59900	111000	285000	537000	842000	1070000	2160000	6780	1080	-.004	.9998	
2,6-Diamino-4-nitrotoluene	85600	172000	418000	822000	1180000	1600000	3140000	11900	1600	-.02	1	
3,4-Dinitrotoluene	347000	655000	1590000	2900000	4380000	5970000	10900000	-18900	13400	-2.47	.9989	
3,5-Dinitroaniline	519000	994000	2340000	4410000	6370000	8180000	14100000	84100	9190	-1.08	1	
TATB	75500	160000	398000	824000	1270000	1770000	3610000	-19600	1700	.059	.9999	
tris(o-cresyl) phosphate	709000	1340000	3260000	6150000	8920000	11800000	20800000	66900	12900	-1.26	1	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

031610ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit Quadratic
a0 -1.96e+004
a1 1.7e+003
a2 0.0593
Correlation coefficient 0.9999
Use Area

Iterate No

None

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit Quadratic
a0 8.41e+004
a1 9.19e+003
a2 -1.08
Correlation coefficient 1.0000
Use Area

Iterate No

None

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit Quadratic
a0 -1.89e+004
a1 1.34e+004
a2 -2.47
Correlation coefficient 0.9989
Use Area

Iterate No

None

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit Quadratic
a0 1.19e+004
a1 1.6e+003
a2 -0.0198
Correlation coefficient 1.0000
Use Area

Iterate No

None

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den 3/18/10

031610ICAL

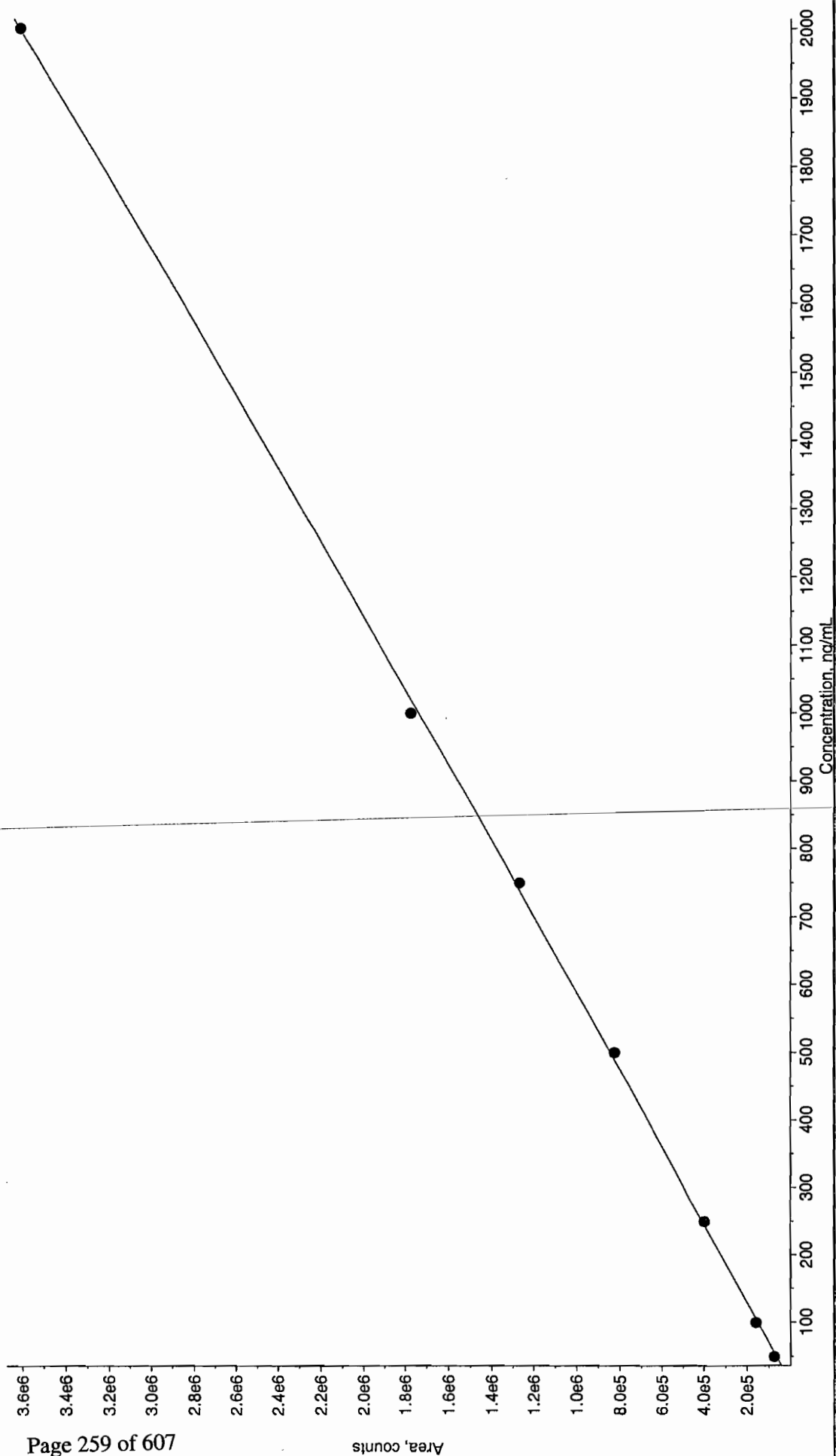
Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	6.78e+003			
a1	1.08e+003			
a2	-0.00433			
Correlation coefficient 0.9998				
Use Area				

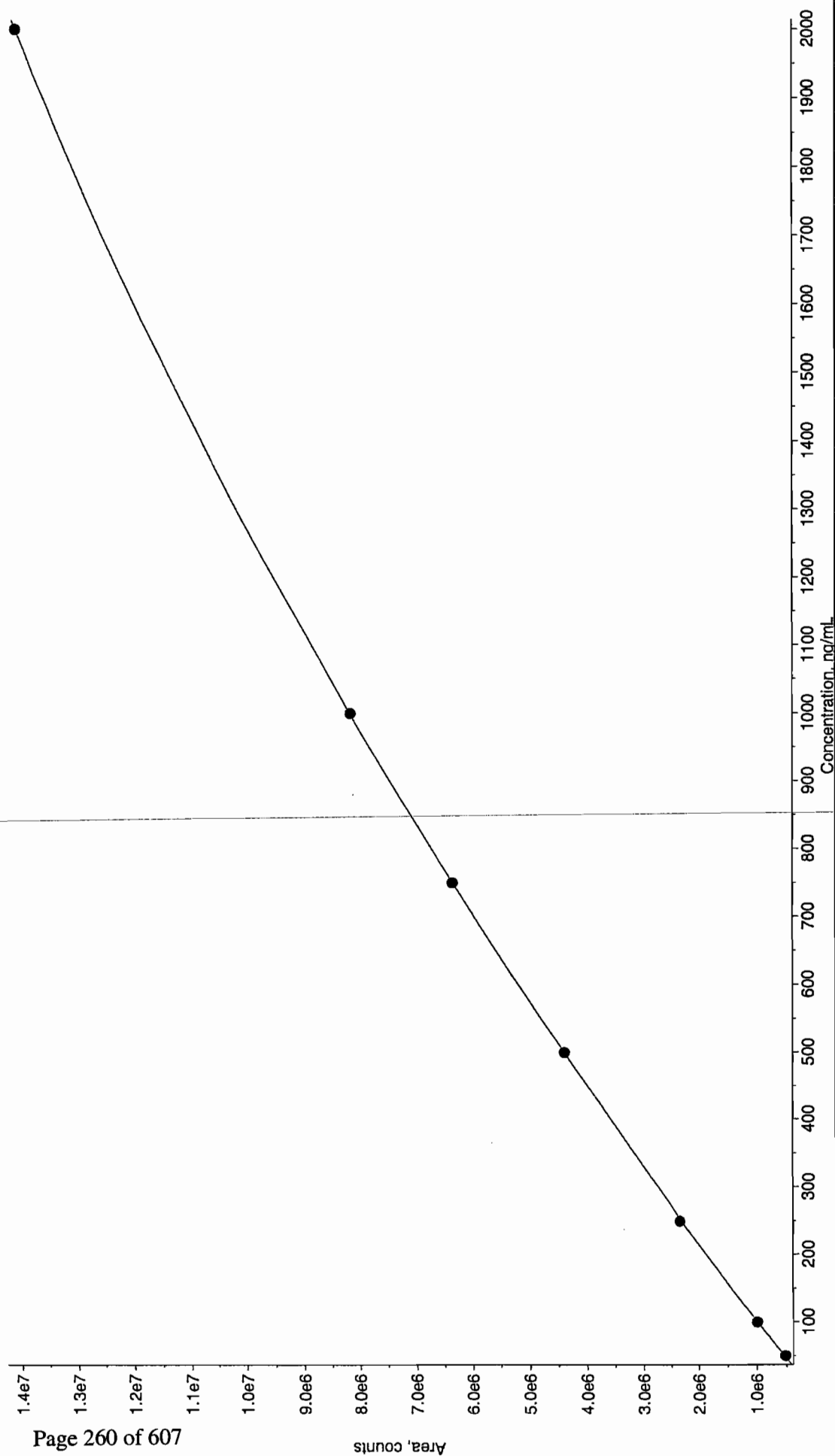
Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

Fit	Quadratic	Weighting	None	Iterate No
a0	6.69e+004			
a1	1.29e+004			
a2	-1.26			
Correlation coefficient 1.0000				
Use Area				

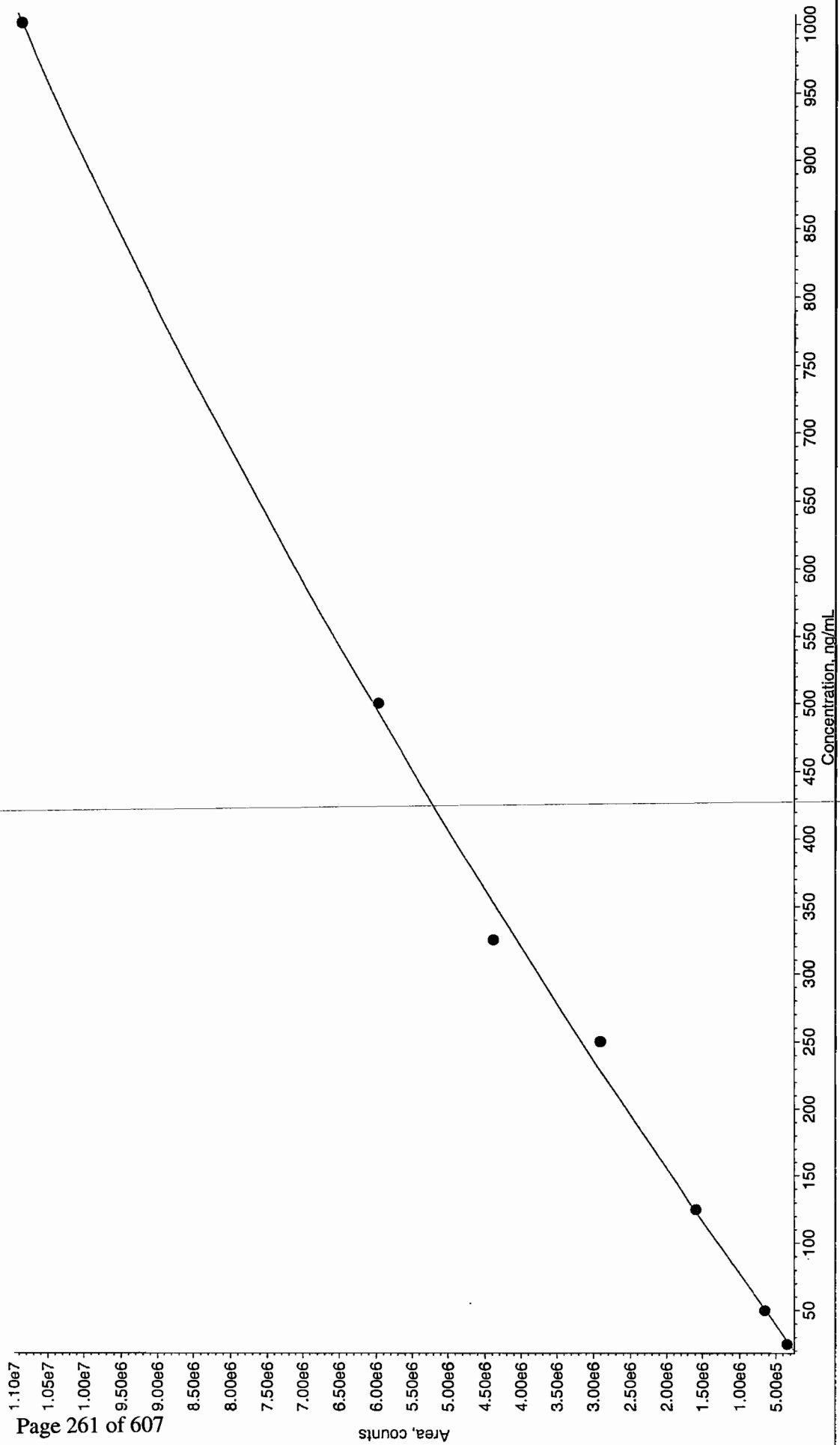
031610.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0593 x^2 + 1.7e+003 x + -1.96e+004$ ($r = 0.9999$)



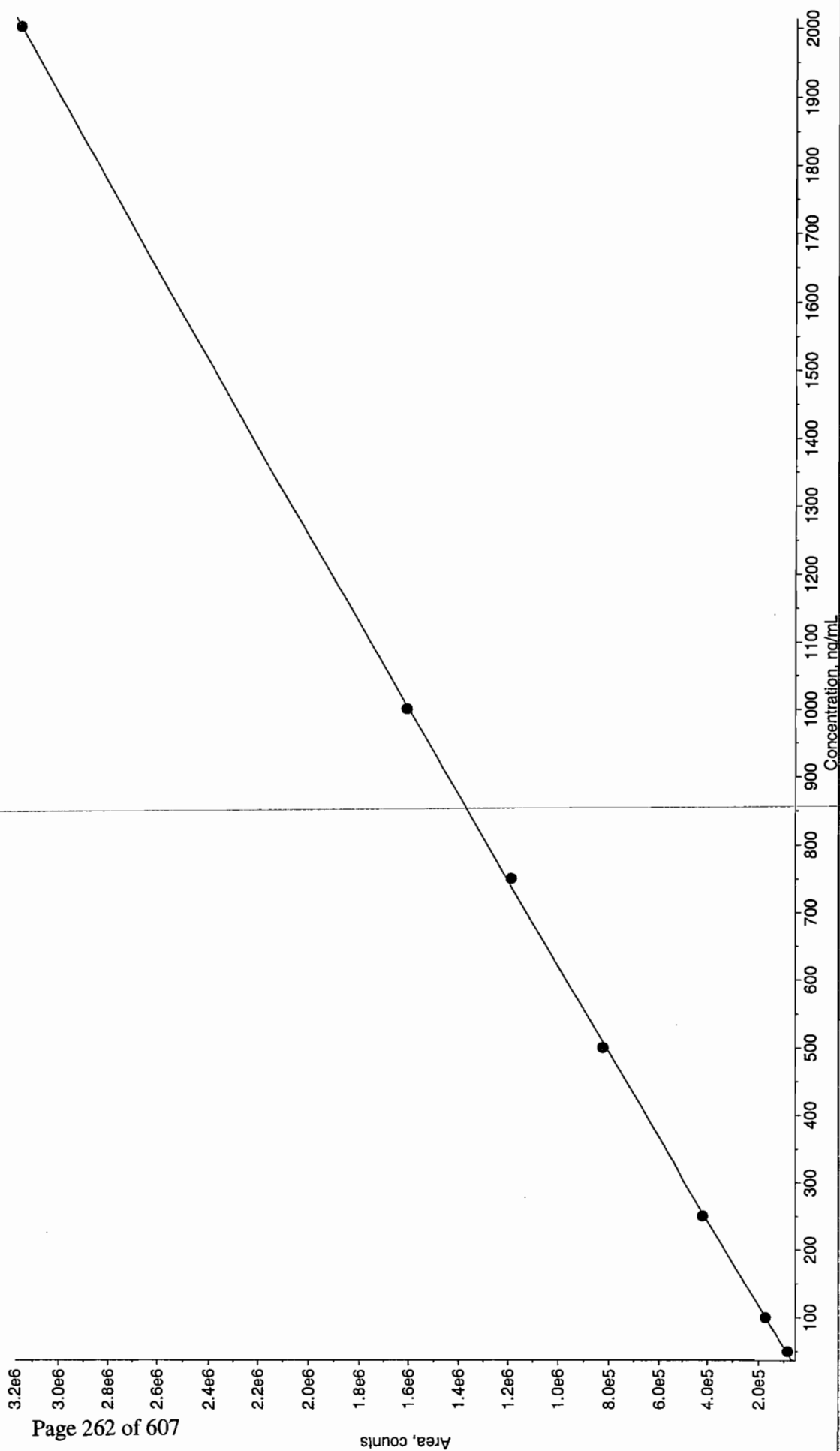
031610.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.08 x^2 + 9.19e+003 x + 8.41e+004$ ($r = 1.0000$)



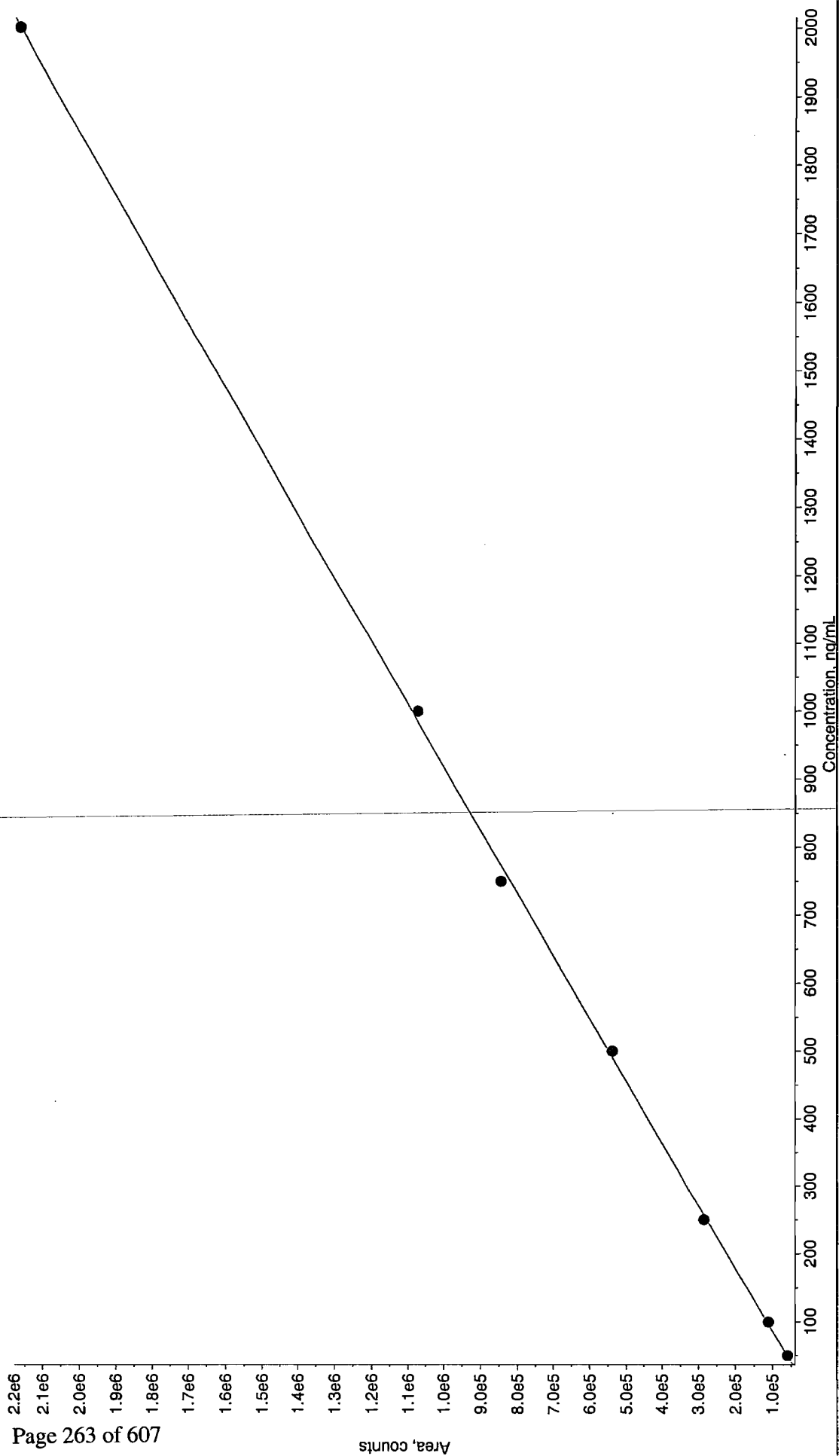
031610.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.47 x^2 + 1.34e+004 x + -1.89e+004$ ($r = 0.9989$)



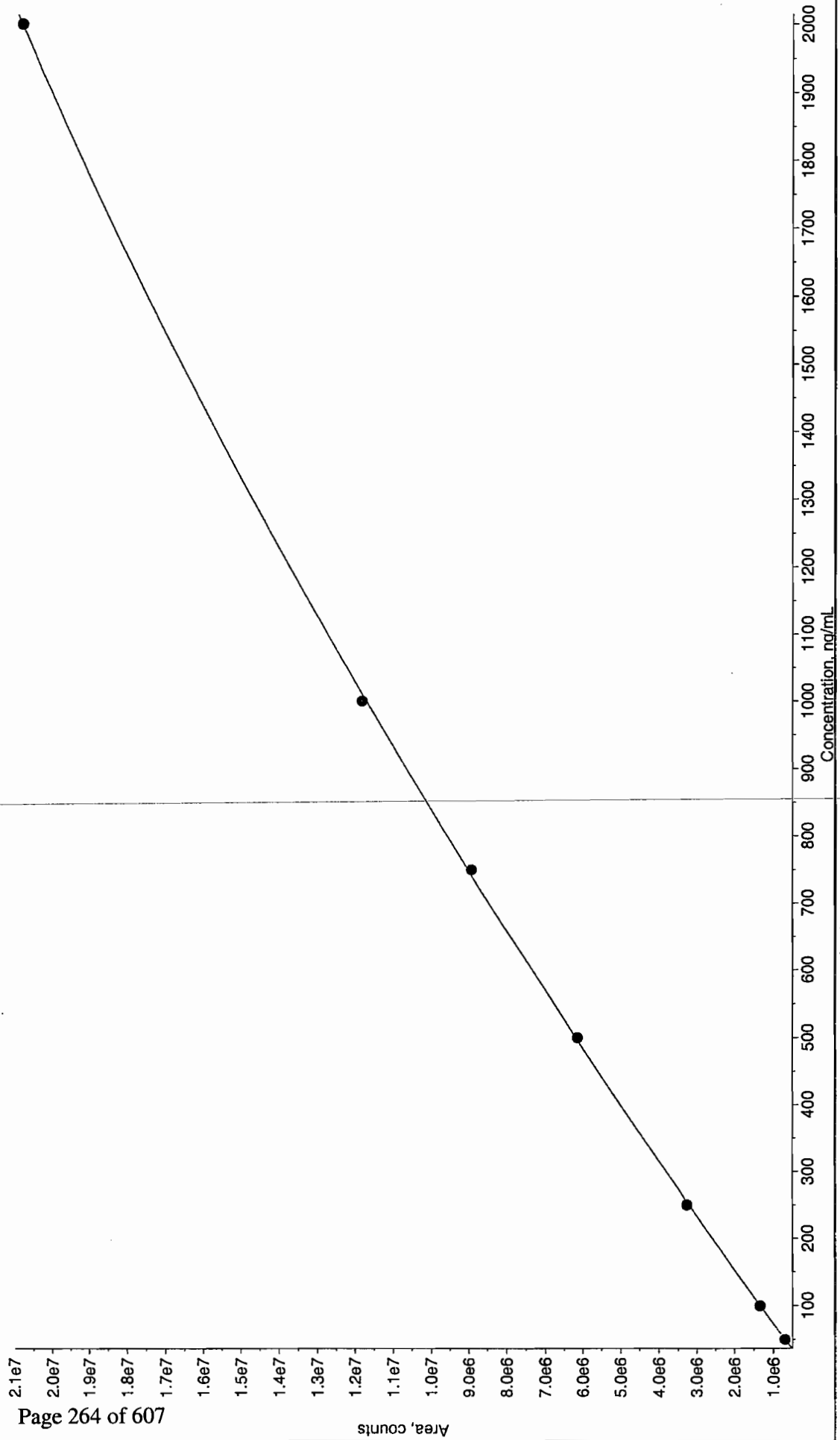
031610.rdb (26-Diamino-4-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.0198 x^2 + 1.6e+003 x + 1.19e+004$ ($r = 1.0000$)



031610.rdb (24-Diamino-6-nitrotoluene): "Quadratic" Regression ("No" weighting): $y = -0.00433 x^2 + 1.08e+003 x + 6.78e+003$ ($r = 0.9998$)



031610.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.26 x^2 + 1.29e+004 x + 6.69e+004$ ($r = 1.0000$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03160011.wiff

Analysis Date: 16-MAR-10 10:54

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	487	97	
2,6-Diamino-4-nitrotoluene	500	468	94	
3,4-Dinitrotoluene	250	232	93	
3,5-Dinitroaniline	500	486	97	
TATB	500	494	99	
tris(o-cresyl) phosphate	500	490	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%

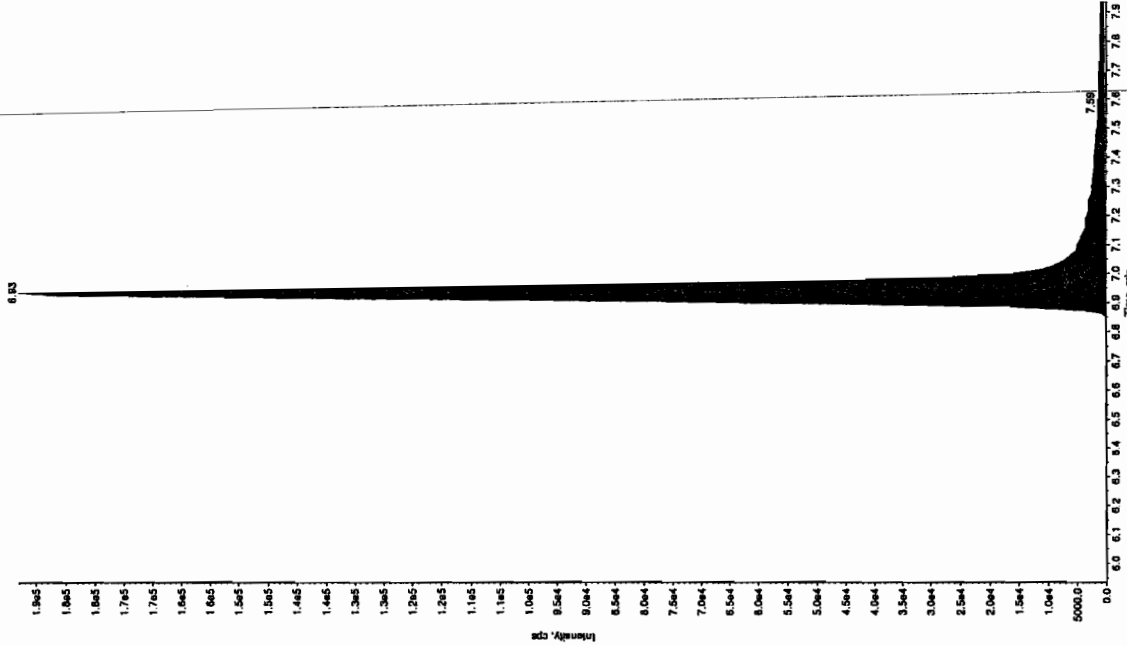
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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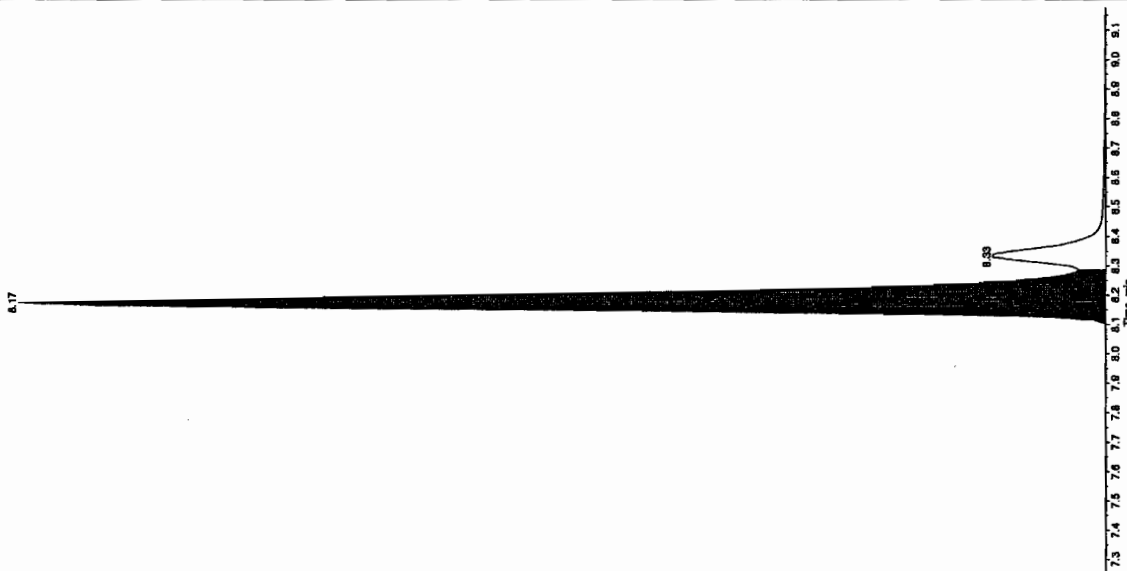
Sample Name: "WXX100316-261C" Sample ID: "J1LER" File: "EX03160011.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 500
 Concentration: 486 ng/mL
 Calculated Conc: 486 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:54:51 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 6.93 min
 Area: 8.33e+005 counts
 Height: 18818568 cps
 Start Time: 6.88 min
 End Time: 7.99 min

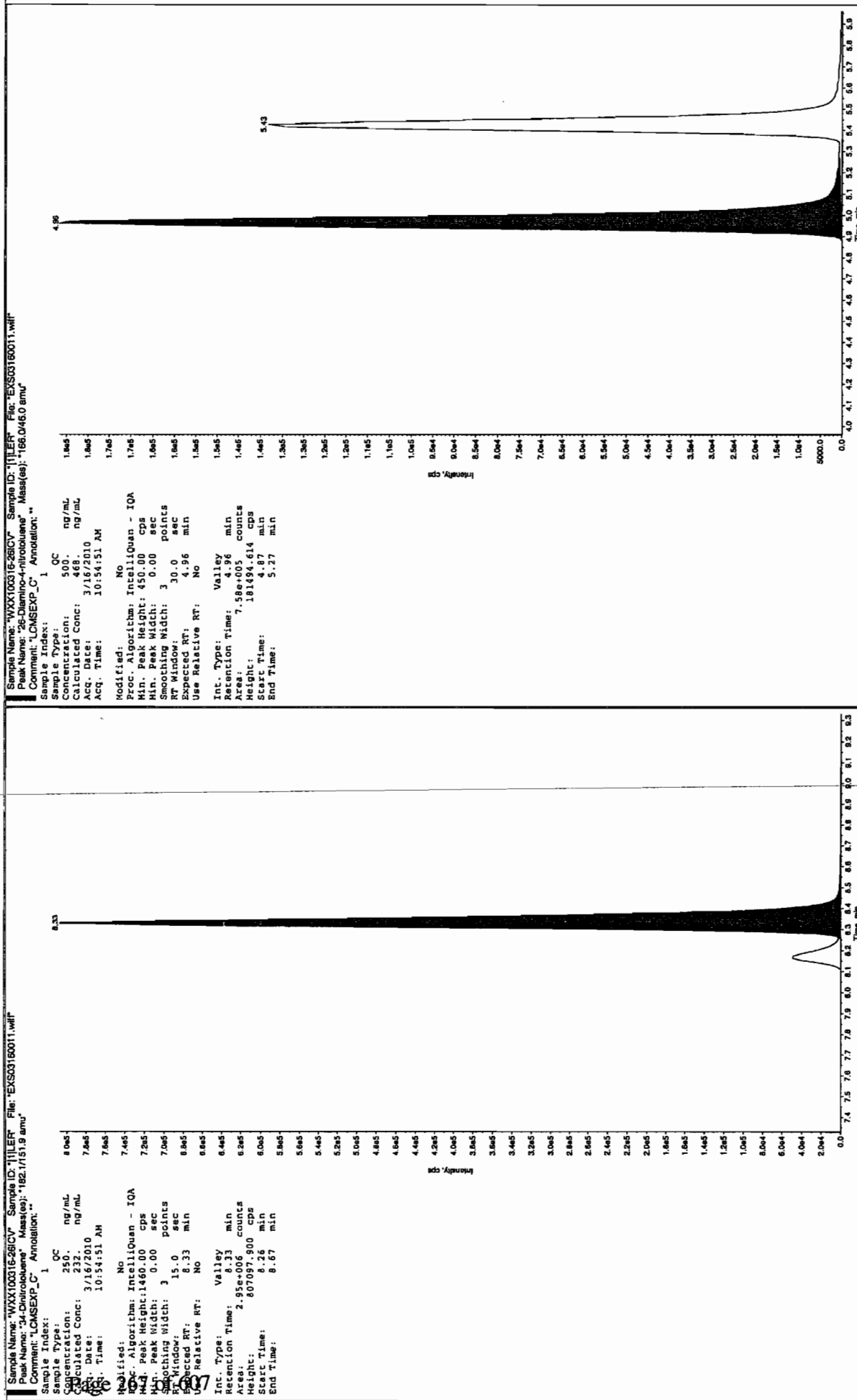


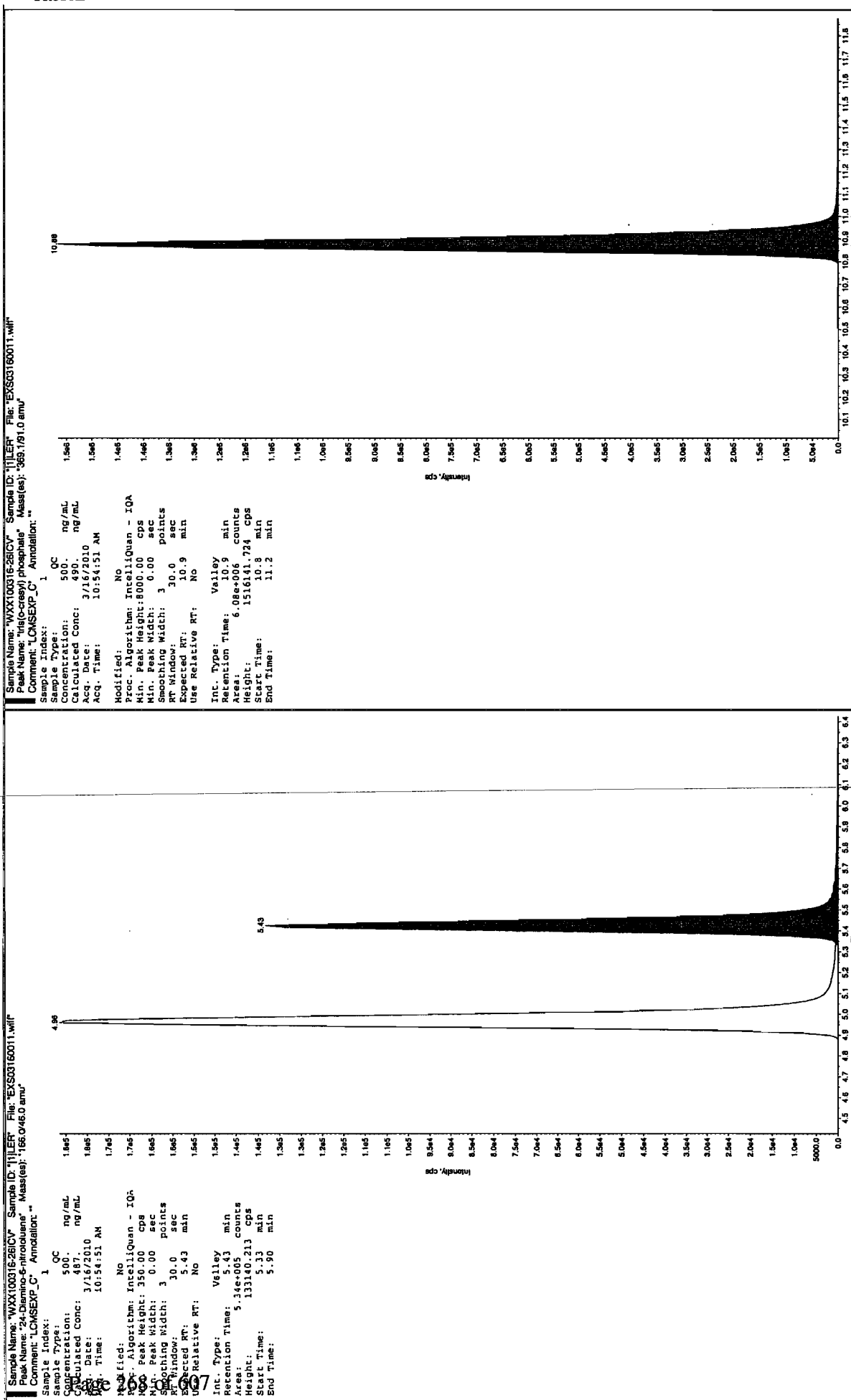
Sample Name: "WXX100316-261C" Sample ID: "J1LER" File: "EX03160011.wif"
 Peak Name: "35-Dinitrophenol" Mass(es): "182.0460 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: 500
 Concentration: 486 ng/mL
 Calculated Conc: 486 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 10:54:51 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 2000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.17 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.17 min
 Area: 4.29e+005 counts
 Height: 1084942.361 cps
 Start Time: 8.08 min
 End Time: 8.29 min



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Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10 19-MAR-10 23-MAR-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:	EXS03190003.w	EXS03190004.w	EXS03190005.w	EXS03190006.w	EXS03190007.w	EXS03190008.w	EXS03190009.w			
Parname										
2,4-Diamino-6-nitrotoluene	1320	1270	1260	1310	1230	1290	1240	1274.286	2.55	
2,6-Diamino-4-nitrotoluene	2020	1920	1920	2040	1940	1960	1790	1941.429	4.15	

Q column used to flag RSD values outside of Limit (>20%)
* Values outside of QC Limit

Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1956

Lab Code: GEL

Run Date: 16-MAR-10 19-MAR-10 23-MAR-10

LCMSMS Instrument ID: LCMSMS4

Method: 8321A Modified

HPPLC Column: YMC J-Sphere ODS-H8Q

Calibration Type: 2nd Order

Calibration Level:	19	20	21	22	23	24	25	X	X^2	Intercept	COD	Q
Data File:	EXS03190003.wiff	EXS03190004.wiff	EXS03190005.wiff	EXS03190006.wiff	EXS03190007.wiff	EXS03190008.wiff	EXS03190009.wiff					
Parname:												
3,4-Dinitrotoluene	310000	627000	1470000	2900000	4210000	5800000	10700000	-38500	12900	-2.16	.9993	
3,5-Dinitroaniline	464000	966000	2250000	4330000	6280000	8390000	14100000	-14100	9420	-1.16	.9998	
TATB	74900	158000	410000	883000	1280000	1820000	3690000	-20900	1760	.049	.9998	
tris(o-cresyl) phosphate	721000	1400000	3380000	6420000	9140000	12200000	21300000	71500	13400	-1.36	.9999	

Quadratic Fit: $y = Ax^2 + Bx + C$
 where X^2 column above is coefficient A
 X column above is coefficient B
 intercept is C

COD is Coefficient of Determination

Q column used to flag COD outside of Limit (<0.990)

* Values outside of QC Limit

031910ICAL

Peak Name: TATB
No Internal Standard
Q1/Q3 Masses: 257.20/204.90 amu

Fit	Quadratic	Weighting	None
a0	-2.09e+004		
a1	1.76e+003		
a2	0.0489		
Correlation coefficient 0.9998			
Use Area			

Peak Name: 35-Dinitroaniline
No Internal Standard
Q1/Q3 Masses: 182.00/46.00 amu

Fit	Quadratic	Weighting	None
a0	-1.41e+004		
a1	9.42e+003		
a2	-1.16		
Correlation coefficient 0.9998			
Use Area			

Peak Name: 34-Dinitrotoluene
No Internal Standard
Q1/Q3 Masses: 182.08/151.90 amu

Fit	Quadratic	Weighting	None
a0	-3.85e+004		
a1	1.29e+004		
a2	-2.16		
Correlation coefficient 0.9993			
Use Area			

Peak Name: 26-Diamino-4-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

Fit	Mean Response Factor	Weighting
Factor	1.94e+003	
Standard deviation	80.6	
%RSD	4.15	
Use Area		

Peak Name: 24-Diamino-6-nitrotoluene
No Internal Standard
Q1/Q3 Masses: 165.97/46.00 amu

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8/3/21/10

031910ICAL
None Iterate No

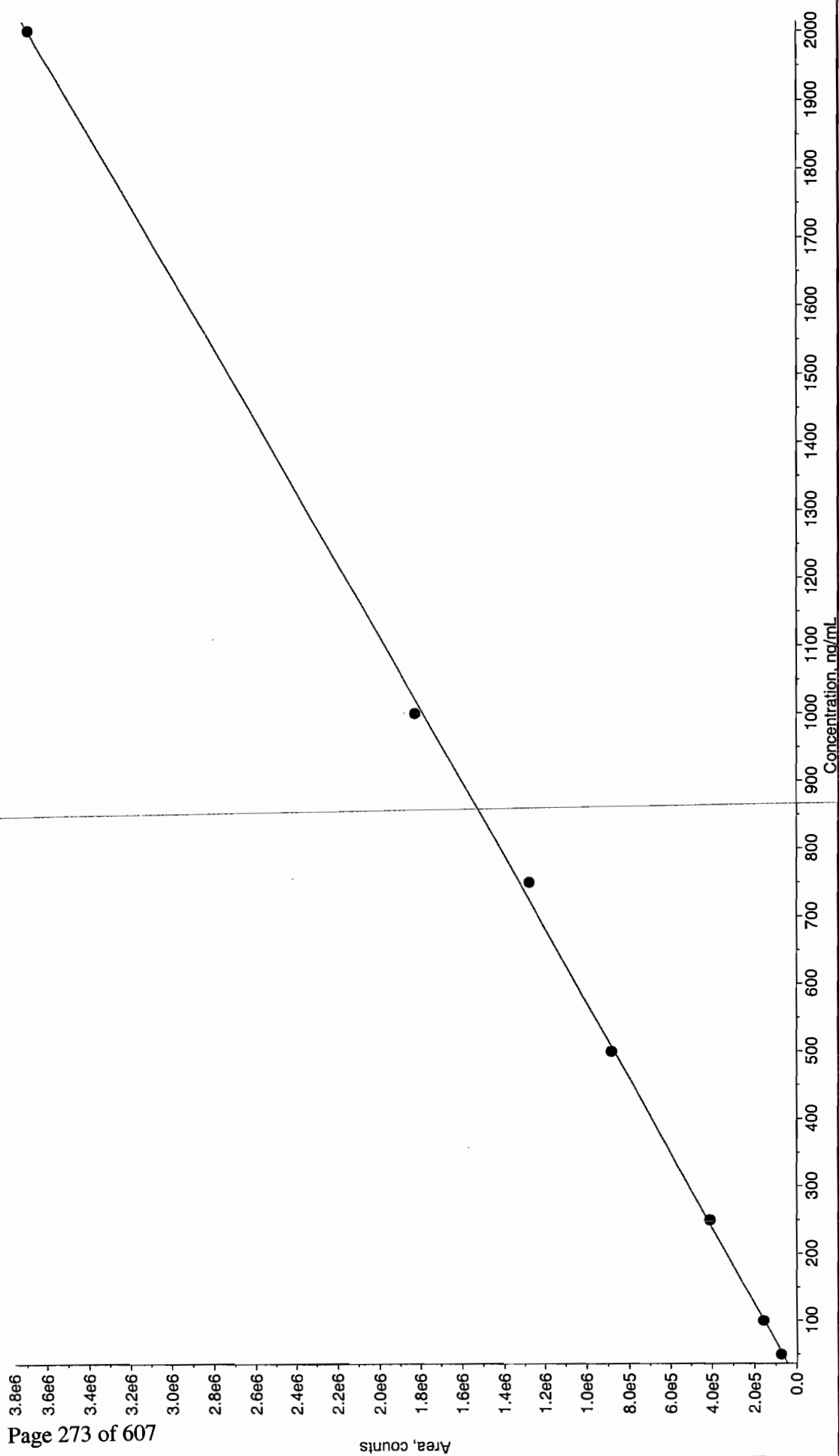
Fit Mean Response Factor Weighting
Factor 1.27e+003
Standard deviation 32.5
%RSD 2.55
Use Area

Peak Name: tris(o-cresyl) phosphate
No Internal Standard
Q1/Q3 Masses: 369.15/91.00 amu

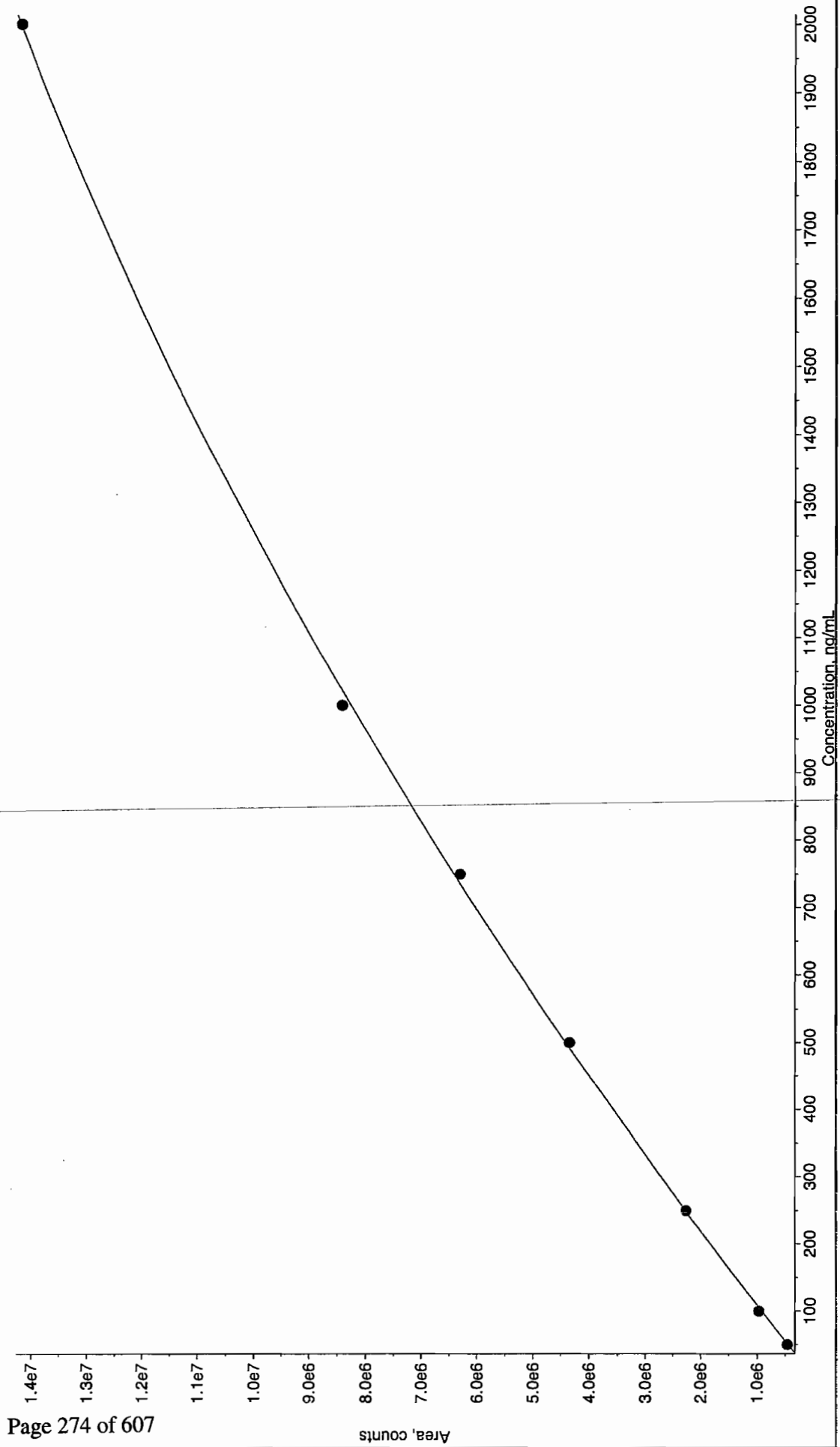
Fit Quadratic Weighting None
a0 7.15e+004
a1 1.34e+004
a2 -1.36
Correlation coefficient 0.9999
Use Area

Iterate No

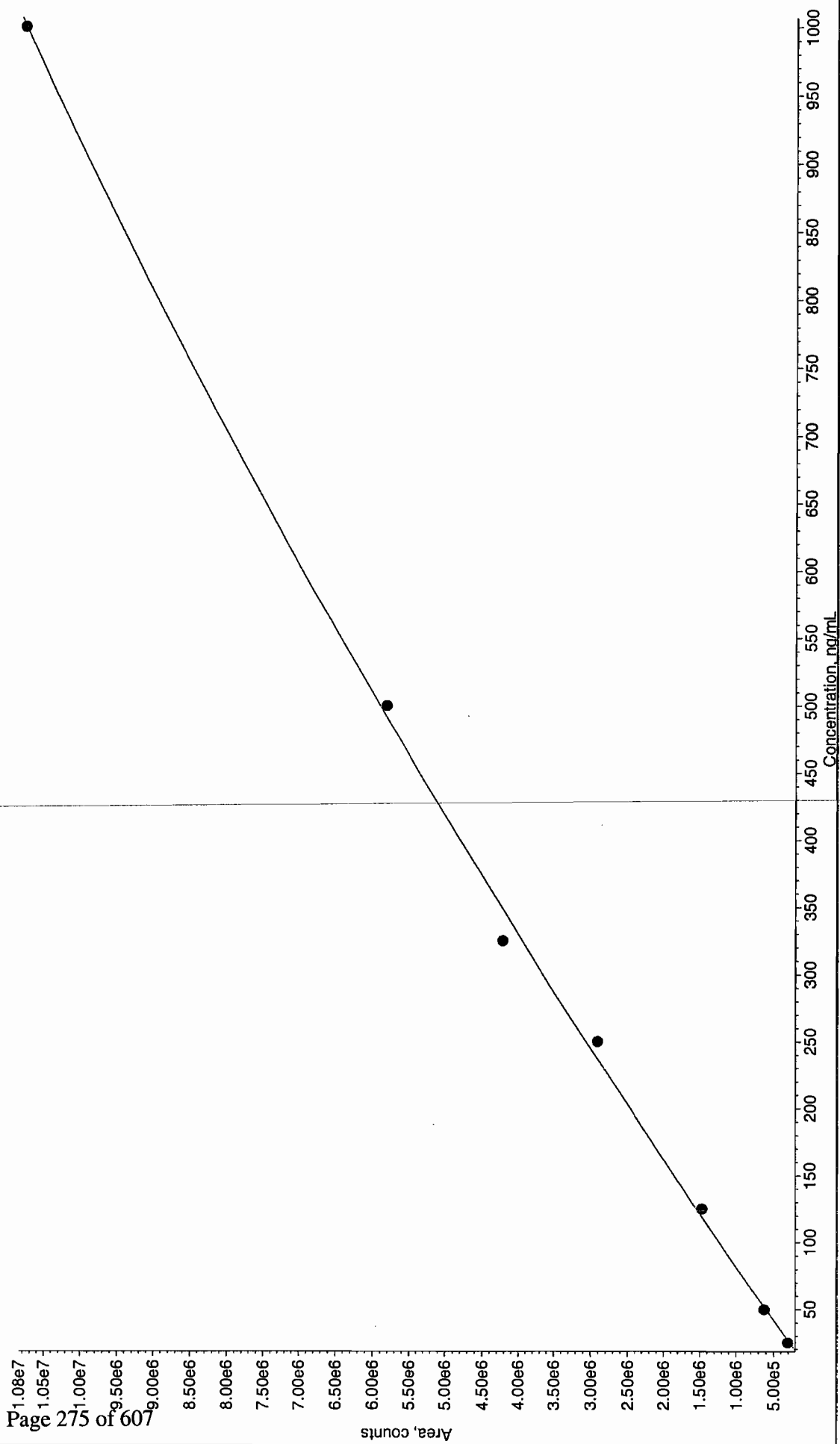
031910.rdb (TATB): "Quadratic" Regression ("No" weighting): $y = 0.0489 x^2 + 1.76e+003 x + -2.09e+004$ ($r = 0.9998$)



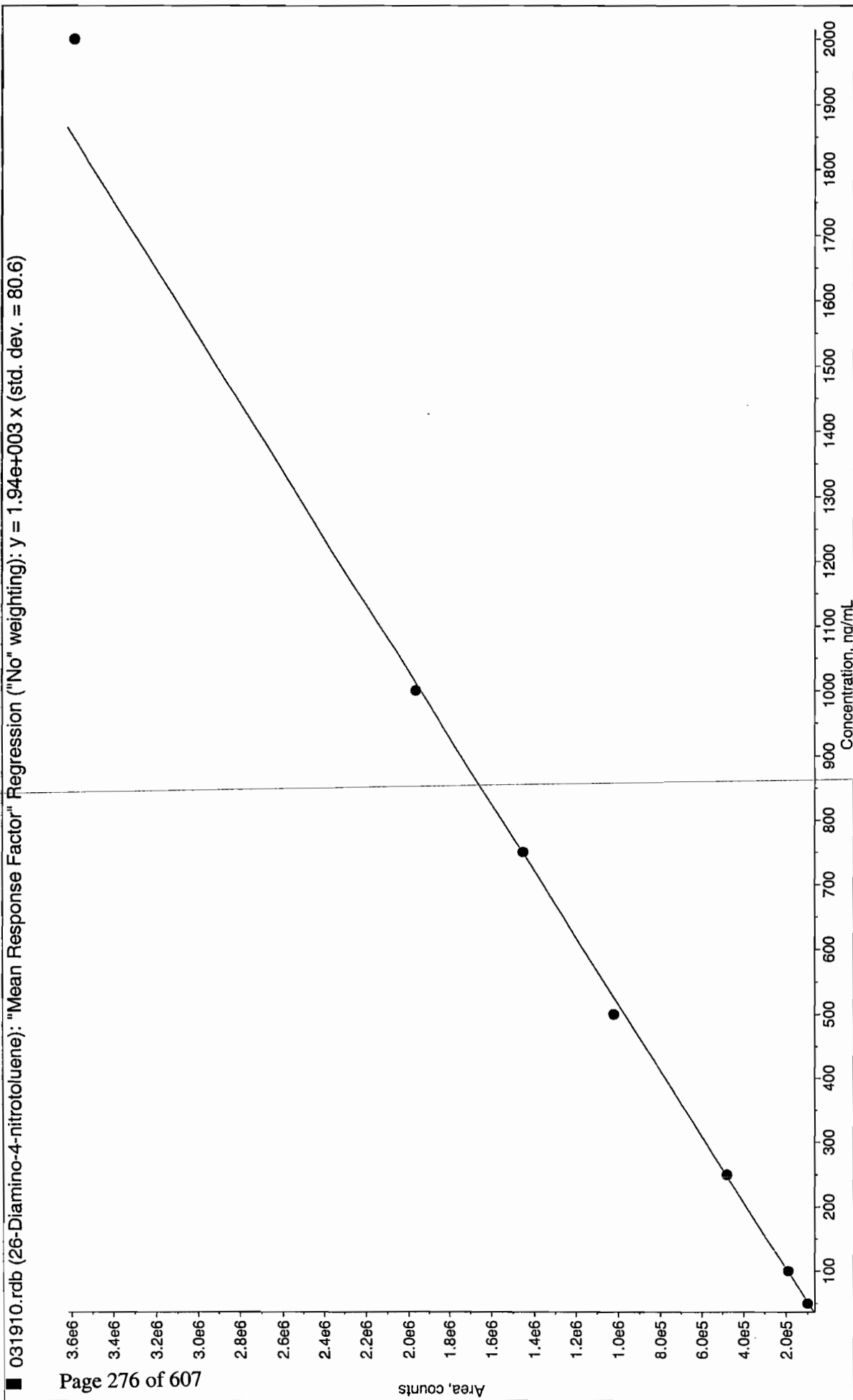
031910.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting): $y = -1.16 x^2 + 9.42e+003 x + -1.41e+004$ ($r = 0.9998$)



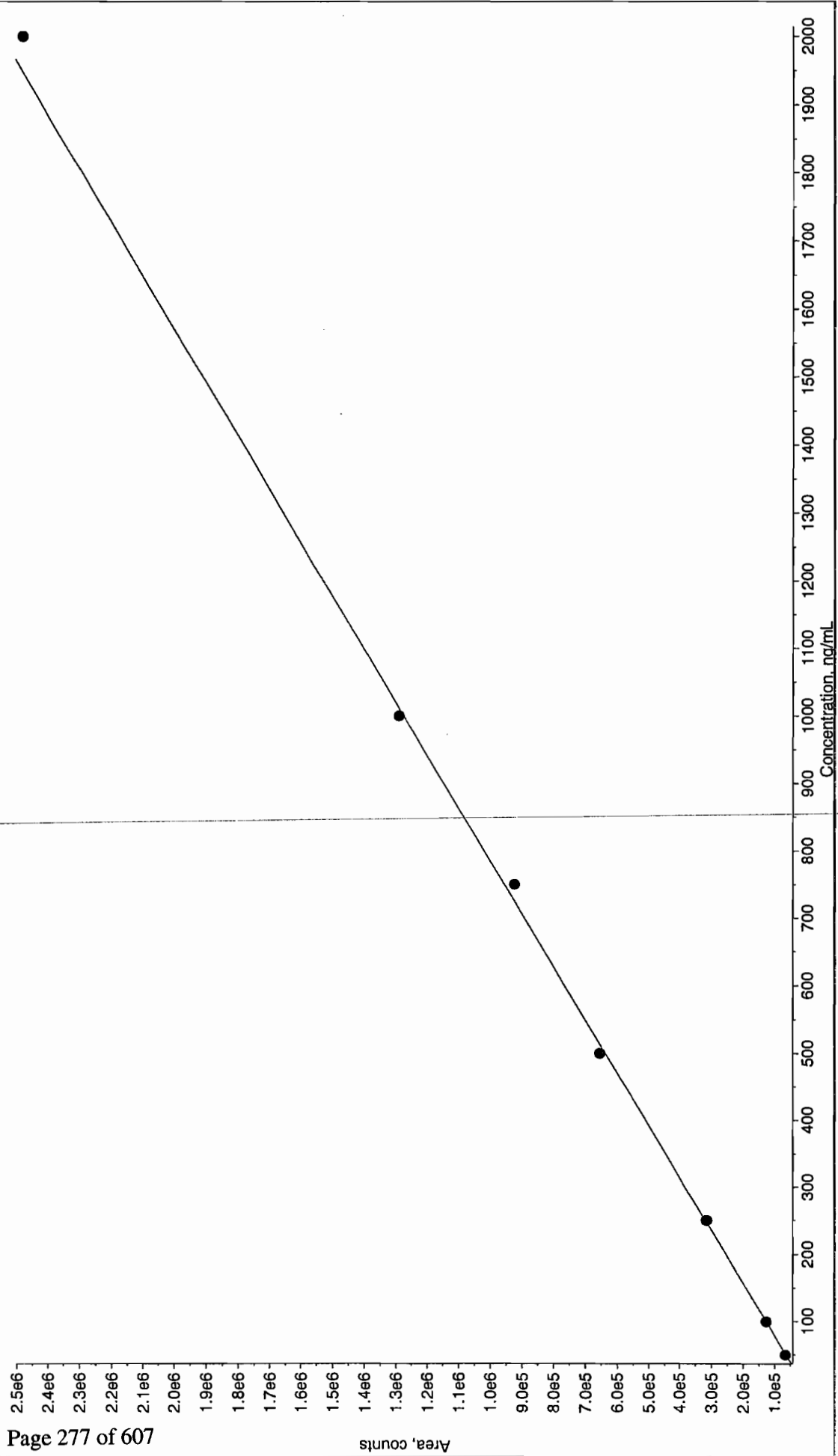
031910.rdb (34-Dinitrotoluene): "Quadratic" Regression ("No" weighting): $y = -2.16 x^2 + 1.29e+004 x + -3.85e+004$ ($r = 0.9993$)



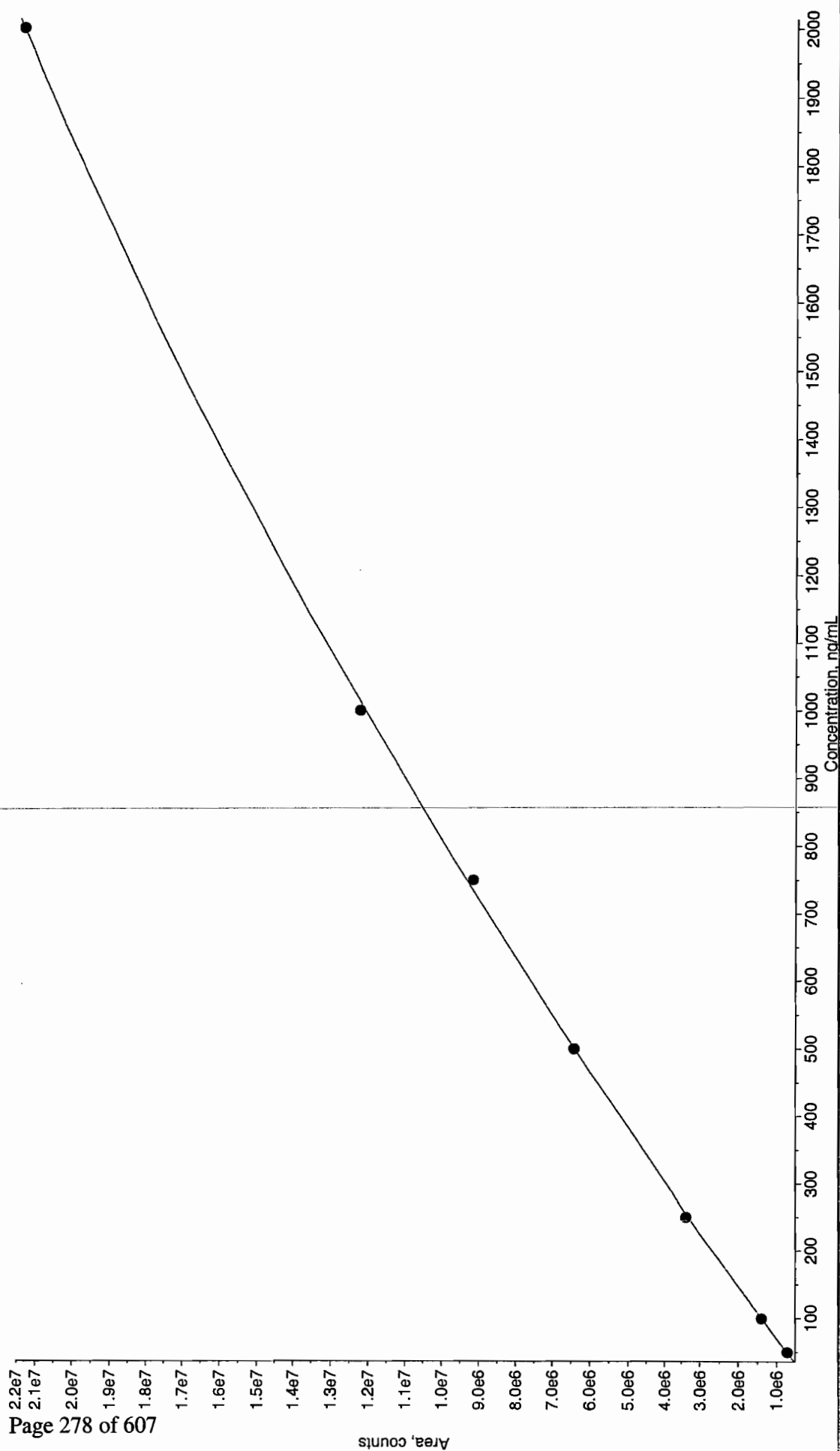
031910.rdb (26-Diamino-4-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.94e+003 \times (\text{std. dev.} = 80.6)$



031910.rdb (24-Diamino-6-nitrotoluene): "Mean Response Factor" Regression ("No" weighting): $y = 1.27e+003 \times (\text{std. dev.} = 32.5)$



031910.rdb (tris(o-cresyl) phosphate): "Quadratic" Regression ("No" weighting): $y = -1.36 x^2 + 1.34e+004 x + 7.15e+004$ ($r = 0.9999$)



Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXICV

GEL Data File EXS03190011.wiff

Analysis Date: 19-MAR-10 09:08

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	432	86	
2,6-Diamino-4-nitrotoluene	500	468	94	
3,4-Dinitrotoluene	250	233	93	
3,5-Dinitroaniline	500	485	97	
TATB	500	492	98	
tris(o-cresyl) phosphate	500	507	101	

Recovery Limits:

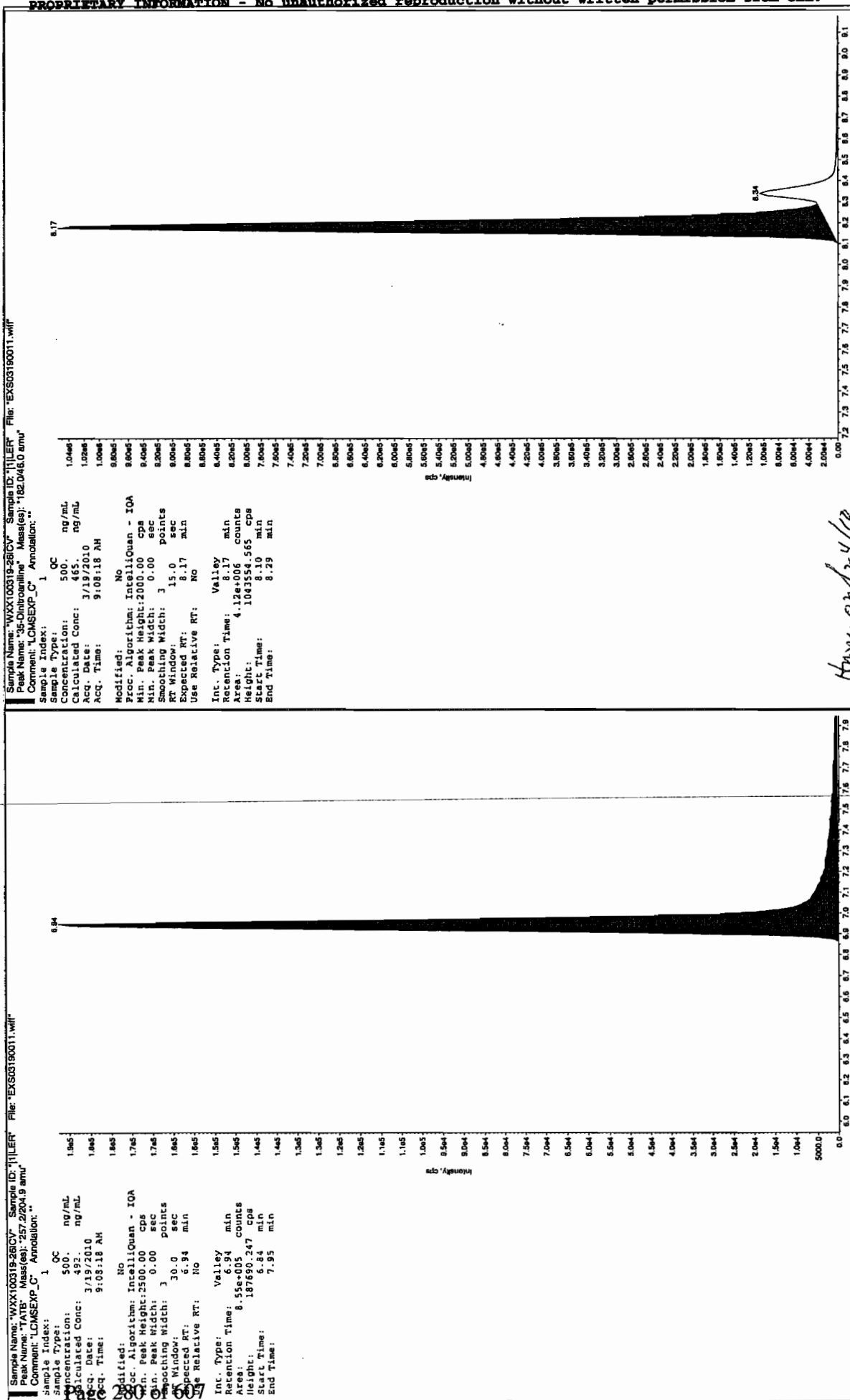
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

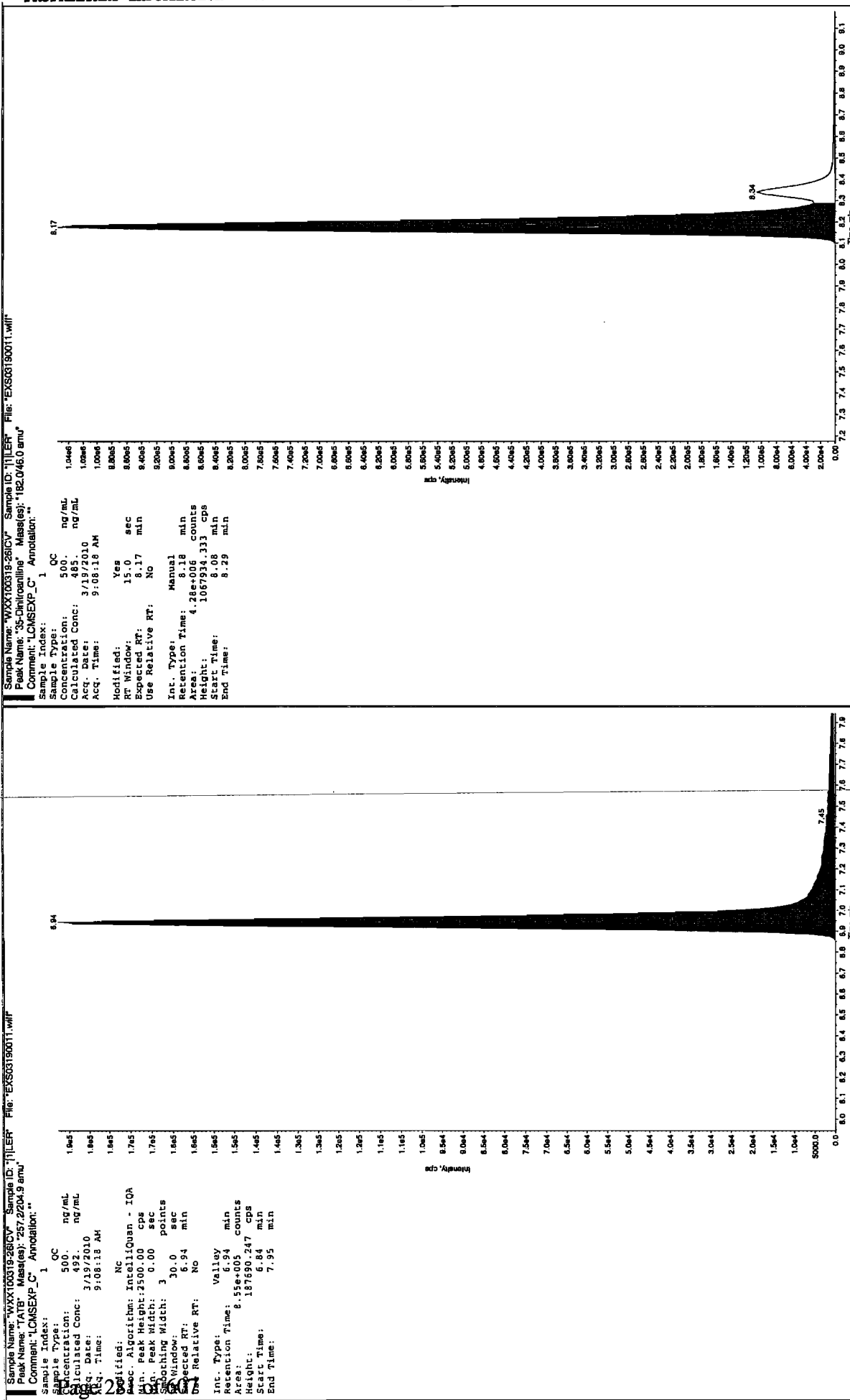
* Value outside of Recovery Limits

Before Jan 3/23/10



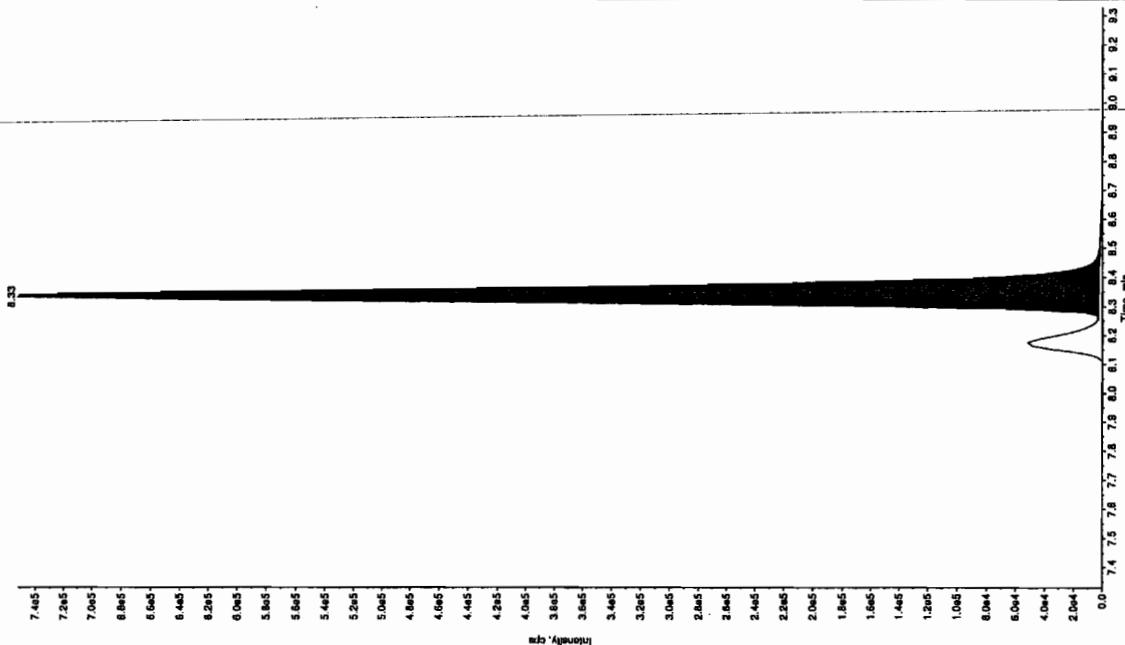
*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after scan 363/10



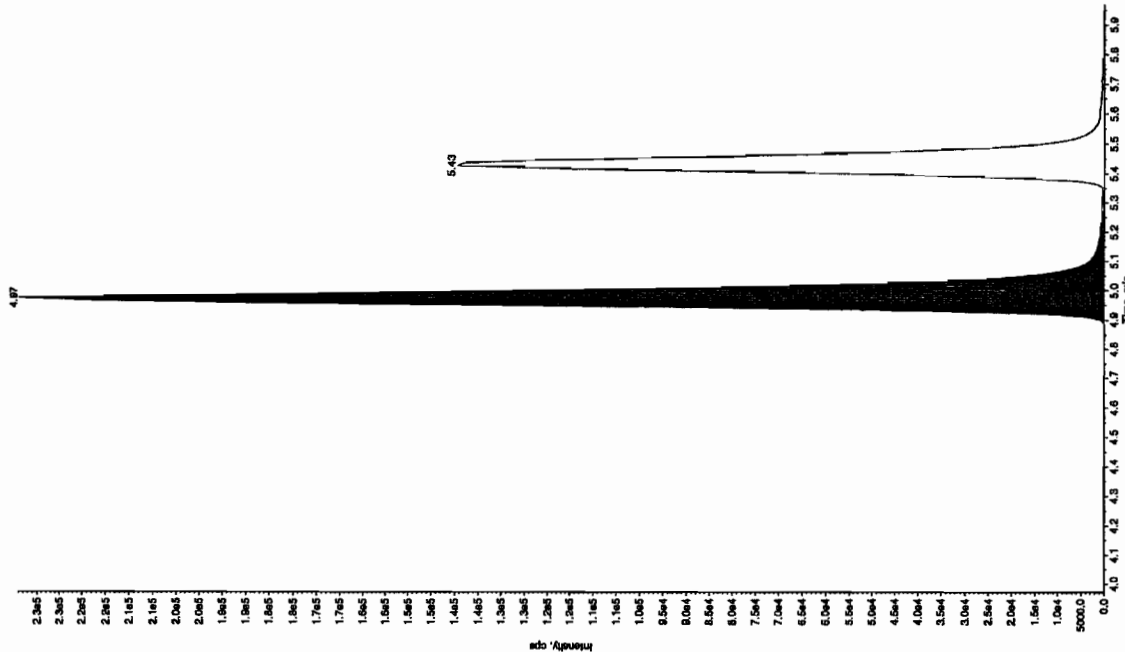
Sample Name: "WXX100319-26(CV" Sample ID: "J1LER" File: "EXS03190011.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"
 Comment: "LCMSEXP_C" Annotation: ""

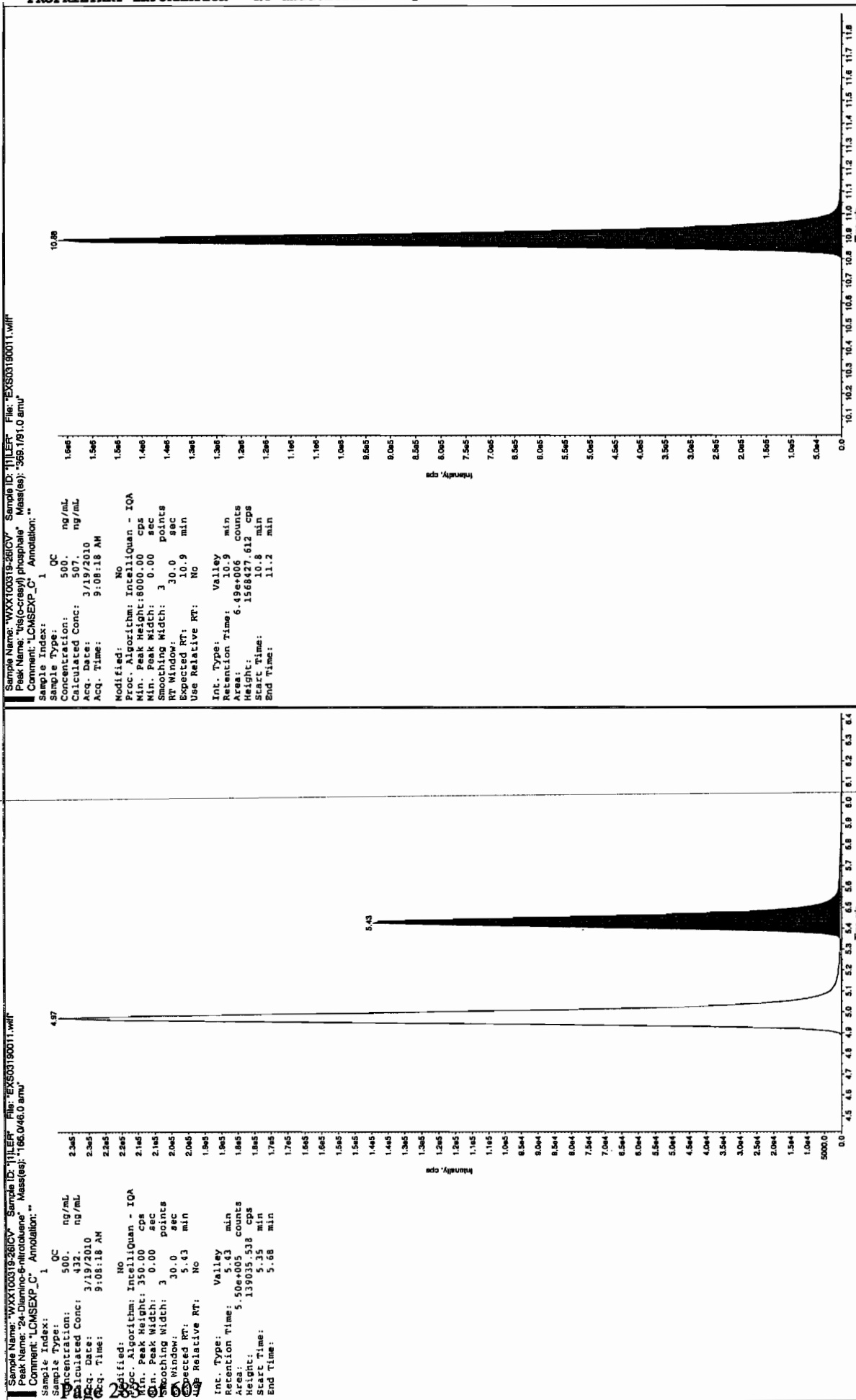
Sample Index: 1 QC
 Concentration: 250. ng/mL
 Calculated Conc: 250. ng/mL
 Acquired Date: 3/19/2010
 Acq. Time: 9:08:18 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1460.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.33 min
 Area: 2.66e006 counts
 Height: 749402.27 cps
 Start Time: 8.26 min
 End Time: 8.56 min



Sample Name: "WXX100319-26(CV" Sample ID: "J1LER" File: "EXS03190011.wif"
 Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.0/46.0 amu"
 Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1 QC
 Concentration: 500. ng/mL
 Calculated Conc: 468. ng/mL
 Acquired Date: 3/19/2010
 Acq. Time: 9:08:18 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.97 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.97 min
 Area: 9.09e005 counts
 Height: 23318.152 cps
 Start Time: 4.87 min
 End Time: 5.27 min





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319012a

Analysis Date: 19-MAR-10 22:18

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	39.627	99	
1,3-Dinitrobenzene-d4	500	444.248	89	
2,4,6-Trinitrotoluene	40	37.741	94	
2,4-Dinitrotoluene	40	34.69	87	
2,6-Dinitrotoluene	40	42.395	106	
2,6-Dinitrotoluene-d3	500	471.684	94	
2-Amino-4,6-dinitrotoluene	40	32.751	82	
3,4-Dinitrotoluene	20	18.832	94	
4-Amino-2,6-dinitrotoluene	40	35.27	88	
HMX	40	36.922	92	
Nitrobenzene	40	45.522	114	
PETN	40	43.663	109	
RDX	40	40.907	102	
Tetryl	40	30.076	75	
m-Dinitrobenzene	40	38.78	97	
m-Nitrotoluene	40	44.56	111	
o-Nitrotoluene	40	42.241	106	
p-Nitrotoluene	40	39.554	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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

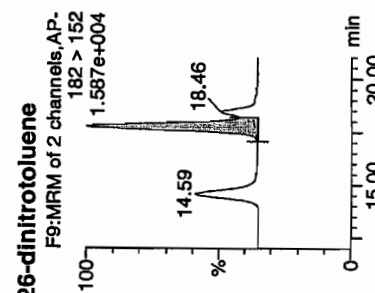
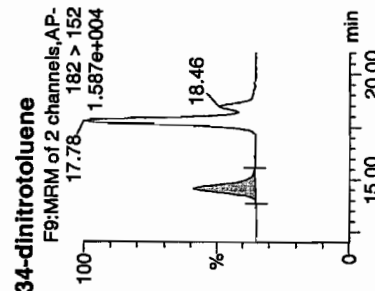
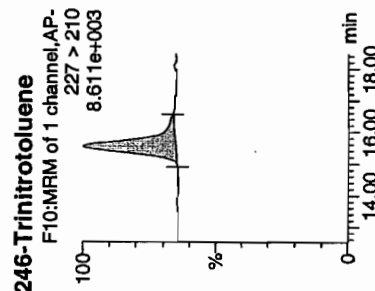
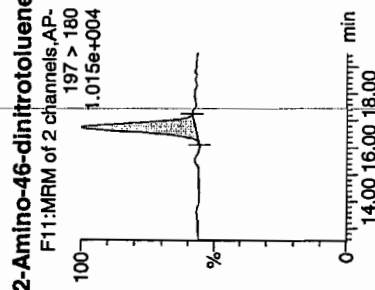
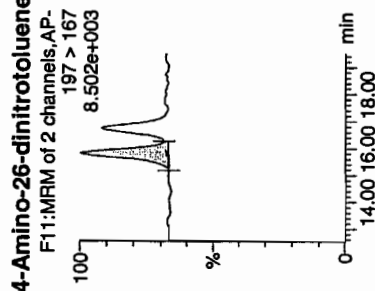
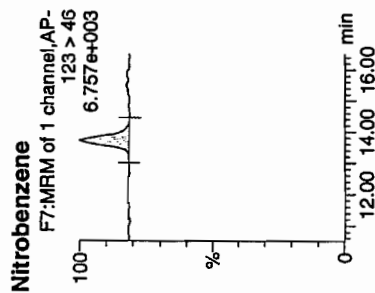
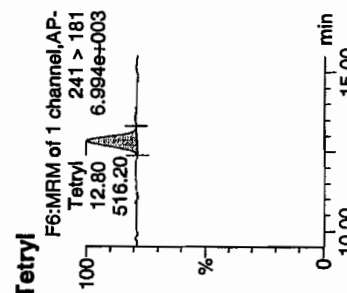
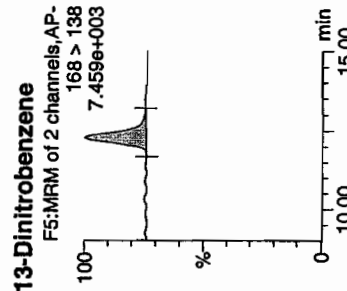
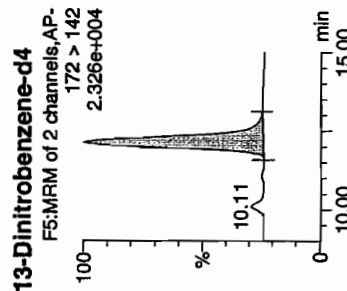
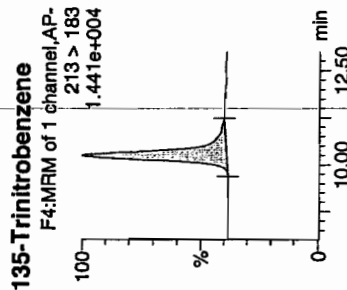
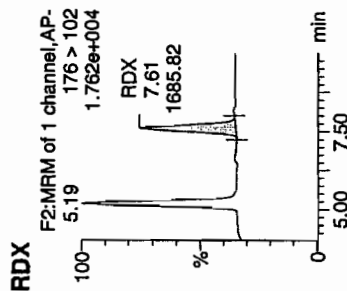
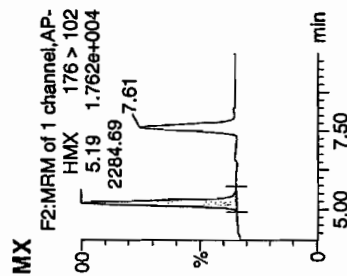
Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319012a

Date: 19-Mar-2010

Time: 22:18:36

ID: WXX100319-08CRI

Vial: 1:1,C

1/12/10
3/1/10HM
250
607HMM
03/22/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sat Mar 20 11:06:08 2010, Page 24 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

1.587e+004

17.78

14.59

min

20.00

min

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26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

1.117e+005

22.70

22.70

min

25.00

min

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2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.294e+003

21.31

21.31

min

25.00

min

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4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.294e+003

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3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.294e+003

21.31

21.31

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25.00

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PETN

F13:MRM of 1 channel,AP-

361 > 62

1.617e+004

24.86

5452.42

min

25.00

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F9:MRM of 2 channels,AP-

185 > 155

1.117e+005

22.70

22.70

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25.00

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F12:MRM of 1 channel,AP-

137 > 46

6.294e+003

21.31

21.31

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GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/19/10
 Time of Injection 2218
 Standard Number WXX100319-08CRI
 Data File EXP0319012a

HMX	92.3
RDX	102.3
135-TNB	99.1
13-DNB	96.9
Tetryl	75.2
Nitrobenzene	113.8
4A-26-DNT	88.2
2A-46-DNT	81.9
246-TNT	94.4
34-DNT(surr)	94.2
26-DNT	106.0
24-DNT	86.7
2-NT	105.6
4-NT	98.9
3-NT	111.4
PETN	109.2

*11/17
3/19/10*

Total 1556.1

Average 97.3

Ham 03/22/10

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319022a

Analysis Date: 20-MAR-10 03:13

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	596.766	99	
1,3-Dinitrobenzene-d4	500	398.076	80	*
2,4,6-Trinitrotoluene	600	620.636	103	
2,4-Dinitrotoluene	600	654.89	109	
2,6-Dinitrotoluene	600	625.73	104	
2,6-Dinitrotoluene-d3	500	415.339	83	
2-Amino-4,6-dinitrotoluene	600	575.512	96	
3,4-Dinitrotoluene	300	286.078	95	
4-Amino-2,6-dinitrotoluene	600	604.613	101	
HMX	600	610.321	102	
Nitrobenzene	600	619.1	103	
PETN	600	694.771	116	
RDX	600	682.896	114	
Tetryl	600	657.931	110	
m-Dinitrobenzene	600	593.531	99	
m-Nitrotoluene	600	594.961	99	
o-Nitrotoluene	600	593.465	99	
p-Nitrotoluene	600	608.706	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\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319022a

Date: 20-Mar-2010

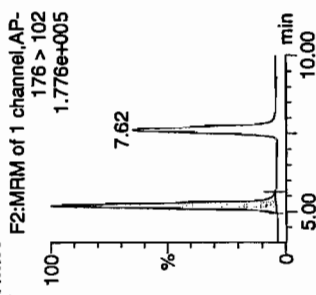
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ID: WXX100319-07CCV

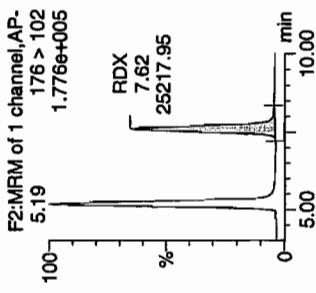
Vial: 1:1,B

11/17
3/10/10

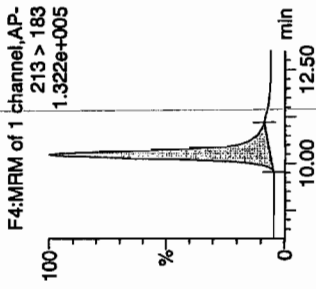
HMX



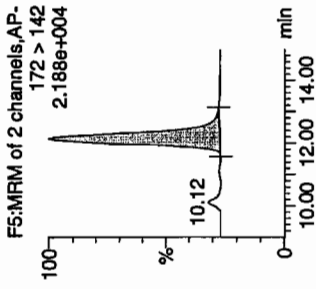
RDX



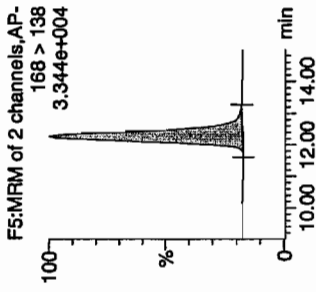
135-Trinitrobenzene



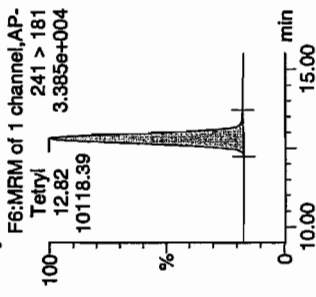
13-Dinitrobenzene-d4



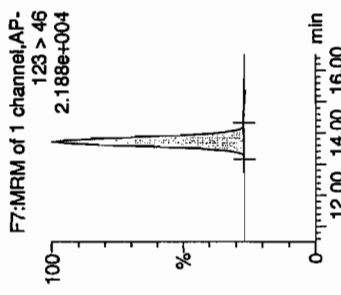
13-Dinitrobenzene



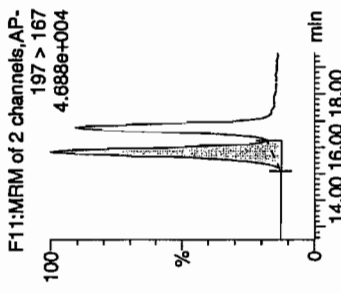
Tetryl



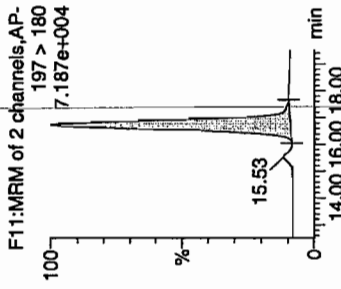
Nitrobenzene



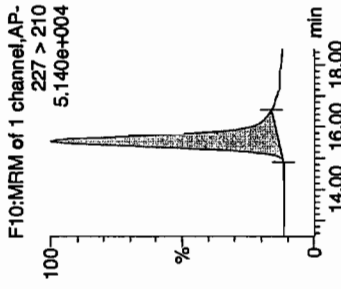
4-Amino-26-dinitrotoluene



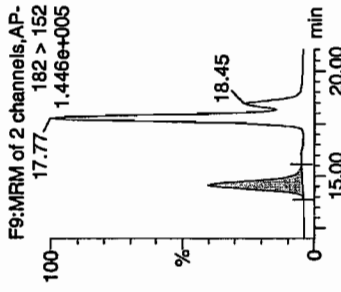
2-Amino-46-dinitrotoluene



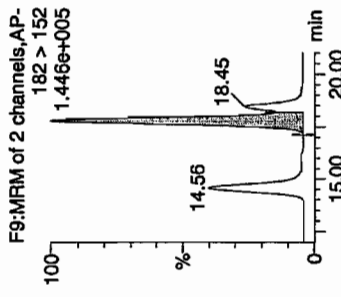
246-Trinitrotoluene



34-dinitrotoluene

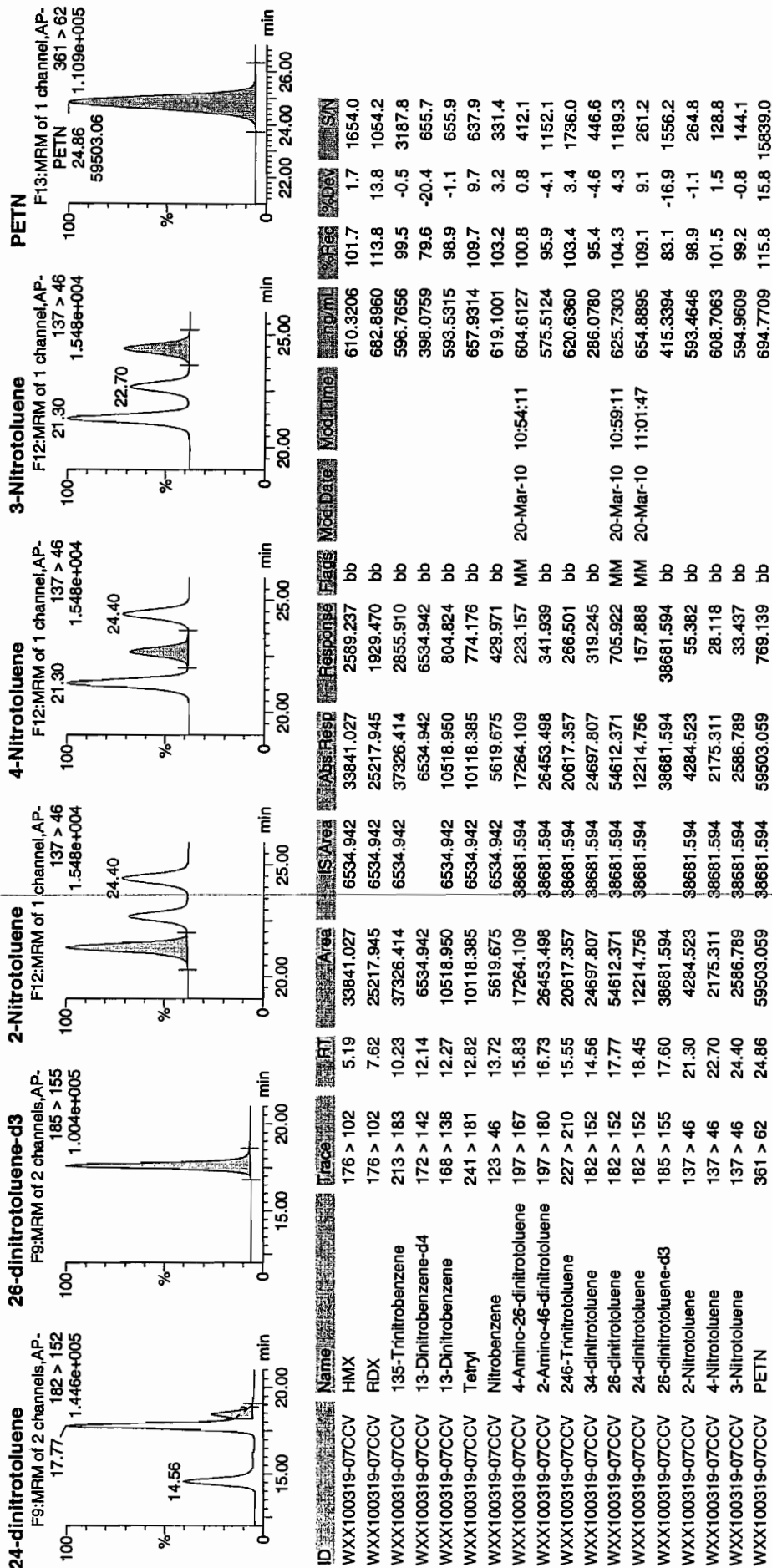


26-dinitrotoluene



thw 3/22/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/20/10
 Time of Injection: 0313
 Standard Number: WXX100319-07CCV
 Data File: EXP0319022a

HMX	101.7
RDX	113.8
135-TNB	99.5
13-DNB	98.9
Tetryl	109.7
Nitrobenzene	103.2
4A-26-DNT	100.8
2A-46-DNT	95.9
246-TNT	103.4
34-DNT(surr)	95.4
26-DNT	104.3
24-DNT	109.1
2-NT	98.9
4-NT	101.5
3-NT	99.2
PETN	115.8

*MTN
3/20/10*

Total 1651.1

4/11/10 03/22/10

Average 103.2

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319024a

Analysis Date: 20-MAR-10 04:12

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,6-Dinitrotoluene-d3	500	442.71	89	
2-Amino-4,6-dinitrotoluene	40	36.537	91	
3,4-Dinitrotoluene	20	19.003	95	
4-Amino-2,6-dinitrotoluene	40	42.896	107	
HMX	40	46.851	117	
Nitrobenzene	40	44.233	111	
PETN	40	47.421	119	
RDX	40	42.067	105	
Tetryl	40	31.143	78	
m-Dinitrobenzene	40	37.549	94	
m-Nitrotoluene	40	38.238	96	
o-Nitrotoluene	40	36.515	91	
p-Nitrotoluene	40	40.115	100	
1,3,5-Trinitrobenzene	40	41.981	105	
1,3-Dinitrobenzene-d4	500	414.198	83	
2,4,6-Trinitrotoluene	40	37.34	93	
2,4-Dinitrotoluene	40	40.233	101	
2,6-Dinitrotoluene	40	40.727	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

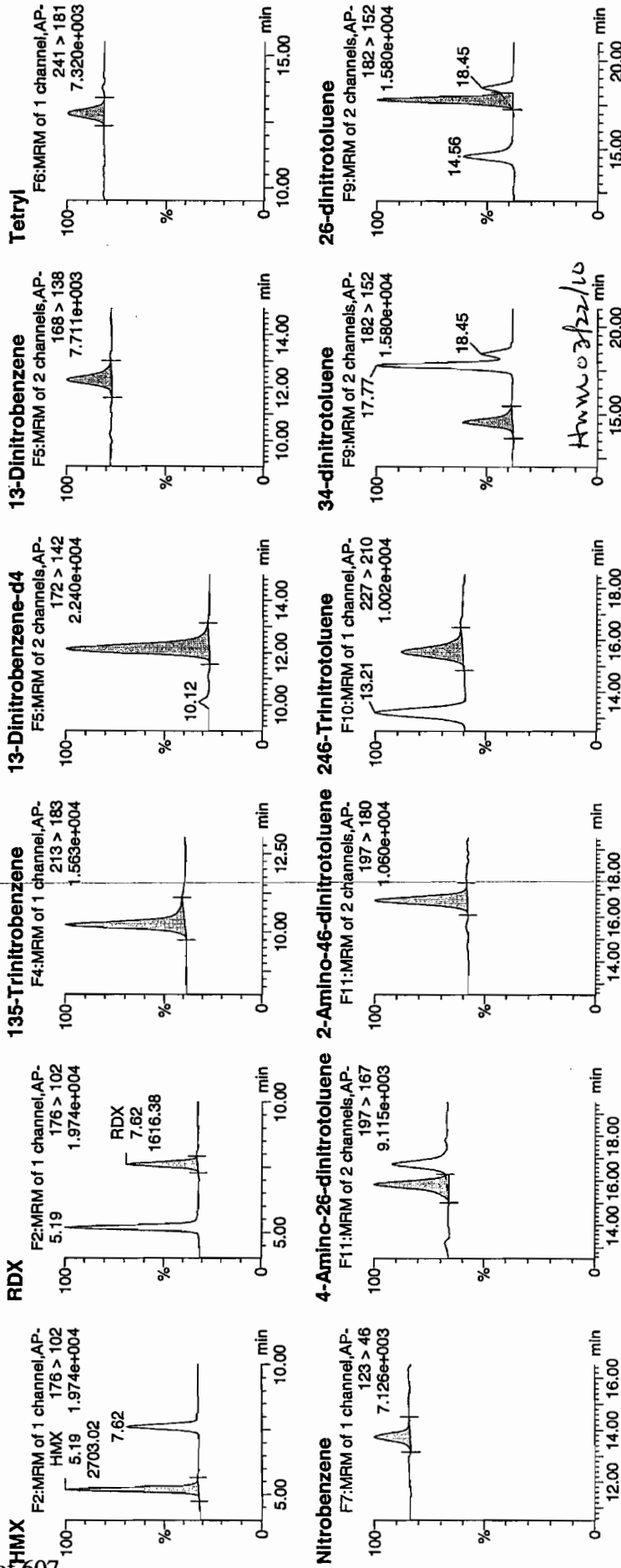
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Date: 20-Mar-2010

Time: 04:12:29

ID: WXX100319-08CRI

Vial: 1:1,C

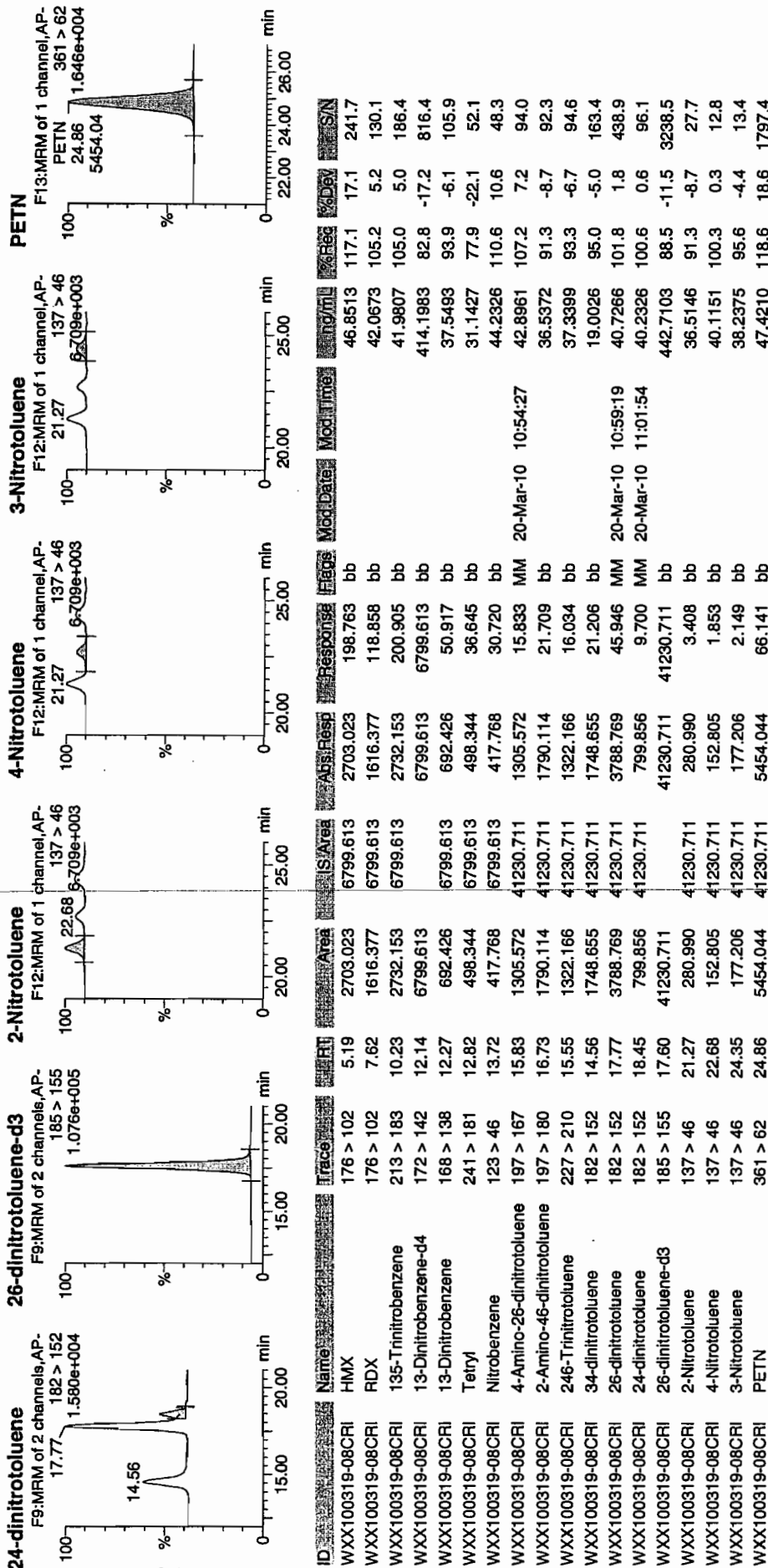


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sat Mar 20 11:06:08 2010, Page 48 of 73

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/20/10
 Time of Injection 0412
 Standard Number WXX100319-08CRI
 Data File EXP0319024a

HMX	117.1
RDX	105.2
135-TNB	105.0
13-DNB	93.9
Tetryl	77.9
Nitrobenzene	110.6
4A-26-DNT	107.2
2A-46-DNT	91.3
246-TNT	93.3
34-DNT(surr)	95.0
26-DNT	101.8
24-DNT	100.6
2-NT	91.3
4-NT	100.3
3-NT	95.6
PETN	118.6

*MTT
3/22/10*

Total 1604.7

Average 100.3

4/11/10 03/22/10

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319034a

Analysis Date: 20-MAR-10 09:07

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	600	641.716	107	
2,4-Dinitrotoluene	600	667.541	111	
2,6-Dinitrotoluene	600	609.314	102	
2,6-Dinitrotoluene-d3	500	459.614	92	
2-Amino-4,6-dinitrotoluene	600	588.691	98	
3,4-Dinitrotoluene	300	295.867	99	
4-Amino-2,6-dinitrotoluene	600	614.541	102	
HMX	600	638.024	106	
Nitrobenzene	600	635.42	106	
PETN	600	689.169	115	
RDX	600	742.292	124	*
Tetryl	600	691.27	115	
m-Dinitrobenzene	600	610.491	102	
m-Nitrotoluene	600	559.832	93	
o-Nitrotoluene	600	544.36	91	
p-Nitrotoluene	600	587.044	98	
1,3,5-Trinitrobenzene	600	607.809	101	
1,3-Dinitrobenzene-d4	500	418.159	84	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP_PRO\Data\EXP0319034a

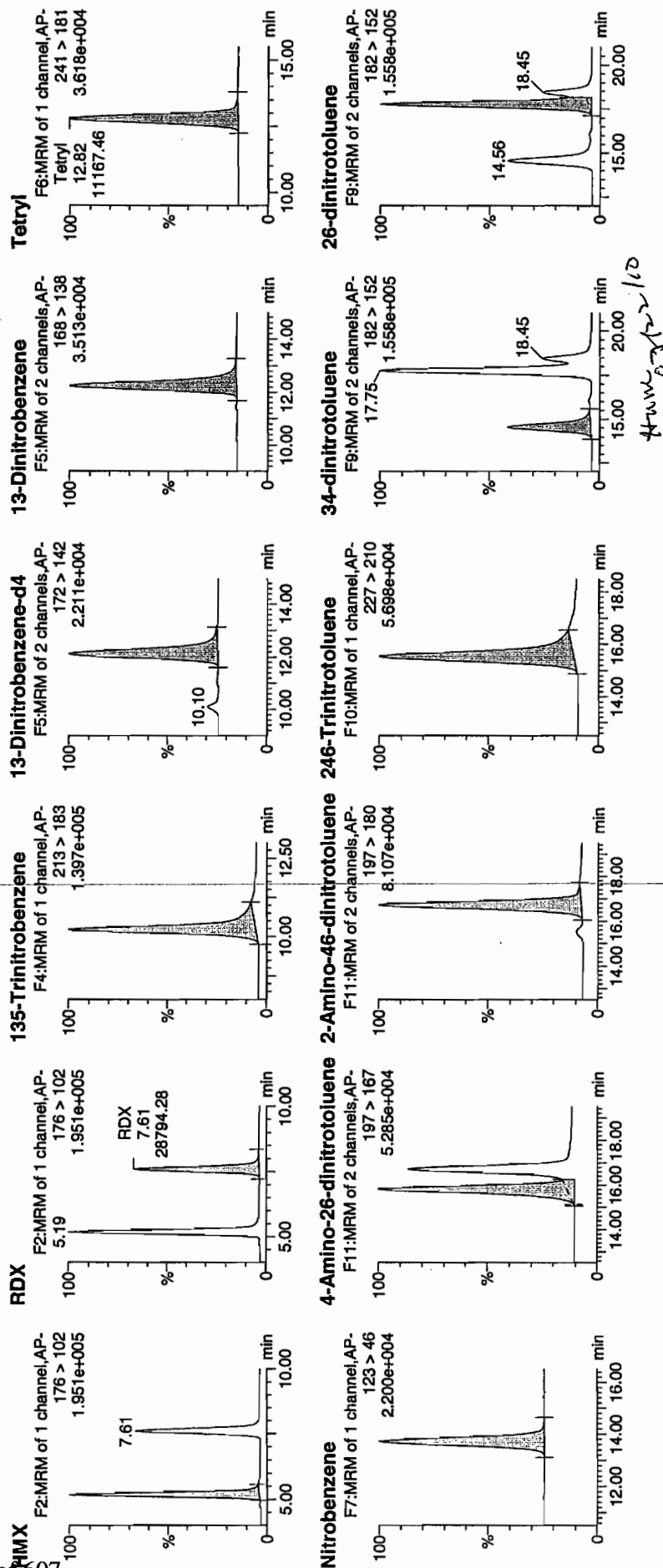
Date: 20-Mar-2010

Time: 09:07:21

ID: WXX100319-07CCV

Ratio: 1:1,B

100%
3/10/10

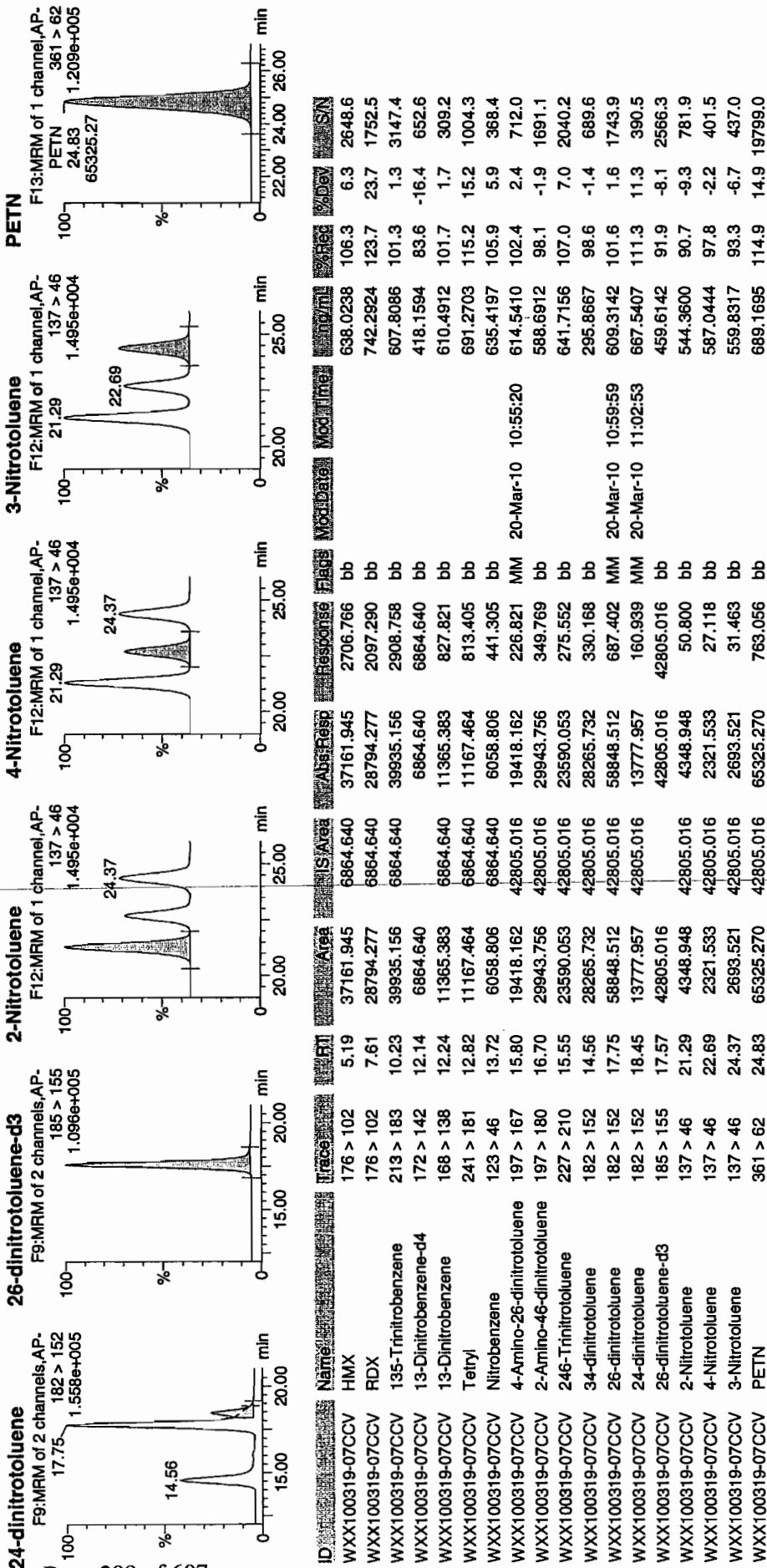


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Printed: Sat Mar 20 11:06:08 2010, Page 68 of 73



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/20/10
 Time of Injection: 0907
 Standard Number: WXX100319-07CCV
 Data File: EXP0319034a

HMX	106.3
RDX	123.7
135-TNB	101.3
13-DNB	101.7
Tetryl	115.2
Nitrobenzene	105.9
4A-26-DNT	102.4
2A-46-DNT	98.1
246-TNT	107.0
34-DNT(surr)	98.6
26-DNT	101.6
24-DNT	111.3
2-NT	90.7
4-NT	97.8
3-NT	93.3
PETN	114.9

*MAP
3/20/10*

Total 1669.8

Average 104.4

HNW 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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319036a

Analysis Date: 20-MAR-10 10:06

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	40	42.592	106	
p-Nitrotoluene	40	40.139	100	
1,3,5-Trinitrobenzene	40	41.932	105	
1,3-Dinitrobenzene-d4	500	429.507	86	
2,4,6-Trinitrotoluene	40	38.317	96	
2,4-Dinitrotoluene	40	38.152	95	
2,6-Dinitrotoluene	40	39.018	98	
2,6-Dinitrotoluene-d3	500	464.792	93	
2-Amino-4,6-dinitrotoluene	40	39.247	98	
3,4-Dinitrotoluene	20	20.507	103	
4-Amino-2,6-dinitrotoluene	40	35.784	89	
HMX	40	46.606	117	
Nitrobenzene	40	41.291	103	
PETN	40	52.159	130	*
RDX	40	46.272	116	
Tetryl	40	28.725	72	
m-Dinitrobenzene	40	40.068	100	
m-Nitrotoluene	40	40.078	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319036a

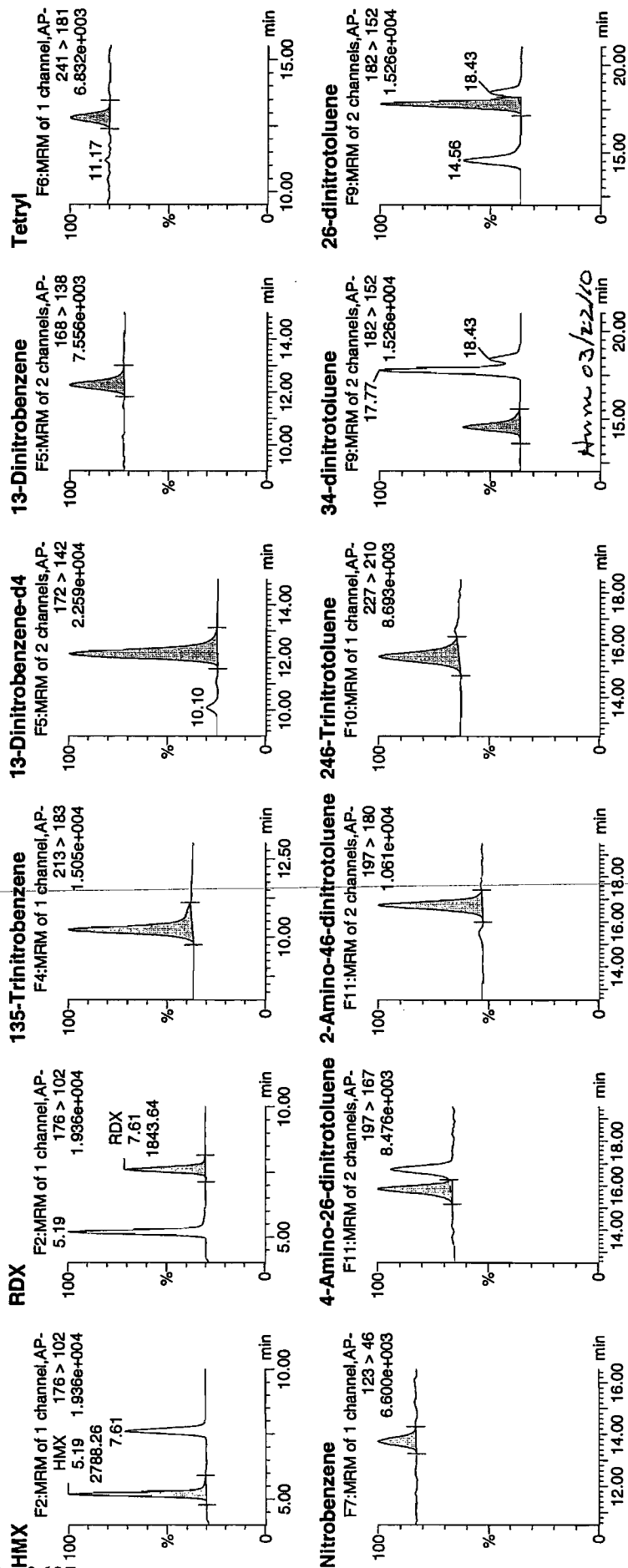
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Time: 10:06:26

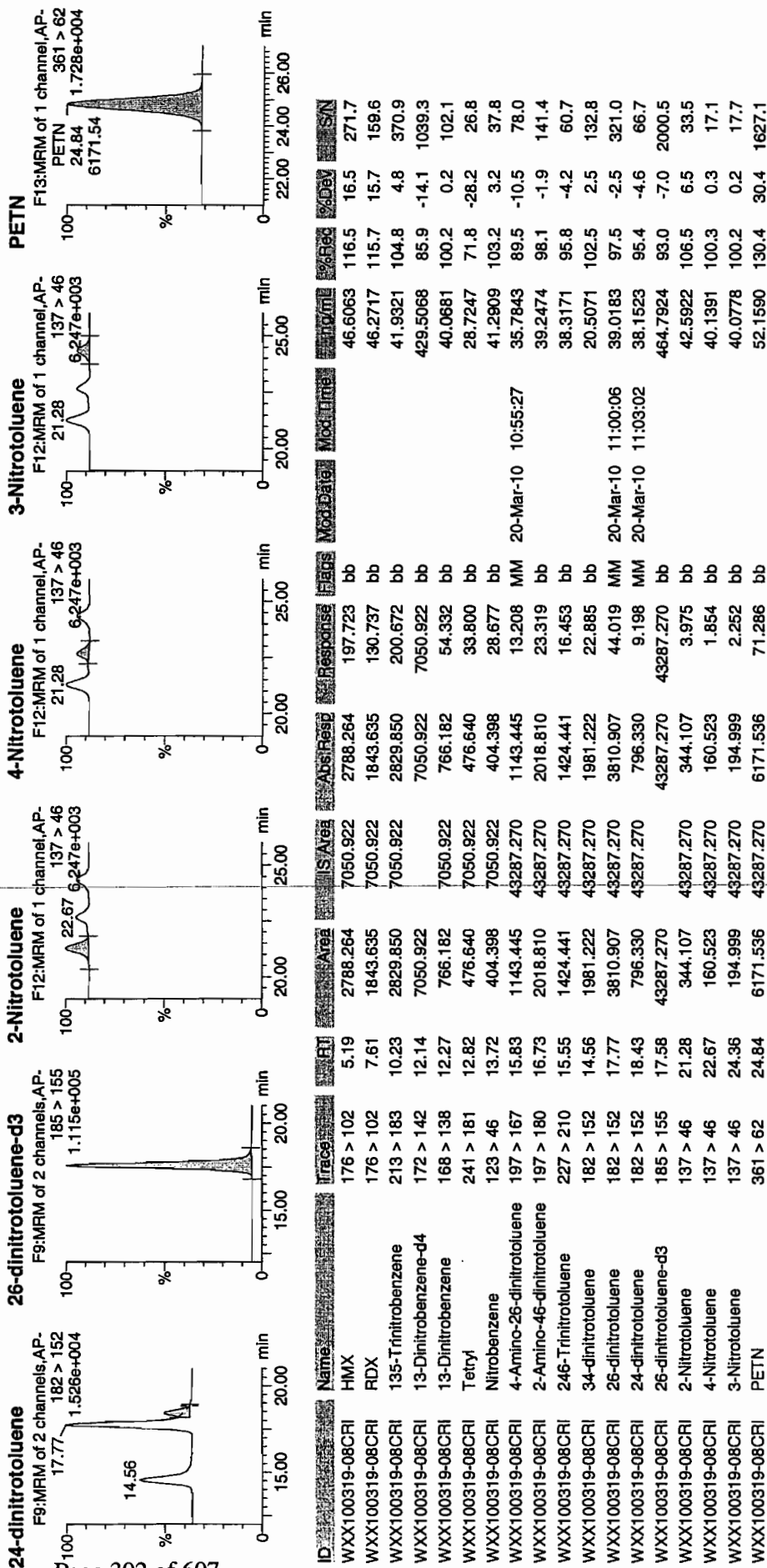
ID: WXX100319-08CRI

Vial: 1:1,C

Handwritten signature
3/20/10



Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA.qld, Time: Sat Mar 20 11:05:24 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/20/10
 Time of Injection 1006
 Standard Number WXX100319-08CRI
 Data File EXP0319036a

HMX	116.5
RDX	115.7
135-TNB	104.8
13-DNB	100.2
Tetryl	71.8
Nitrobenzene	103.2
4A-26-DNT	89.5
2A-46-DNT	98.1
246-TNT	95.8
34-DNT(surr)	102.5
26-DNT	97.5
24-DNT	95.4
2-NT	106.5
4-NT	100.3
3-NT	100.2
PETN	130.4

*MTT
3/22/10*

Total 1628.4

Average 101.8

Hm m 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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319047a

Analysis Date: 20-MAR-10 15:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	569.715	95	
1,3-Dinitrobenzene-d4	500	425.661	85	
2,4,6-Trinitrotoluene	600	624.11	104	
2,4-Dinitrotoluene	600	649.388	108	
2,6-Dinitrotoluene	600	623.466	104	
2,6-Dinitrotoluene-d3	500	445.978	89	
2-Amino-4,6-dinitrotoluene	600	556.254	93	
3,4-Dinitrotoluene	300	283.304	94	
4-Amino-2,6-dinitrotoluene	600	599.338	100	
HMX	600	631.041	105	
Nitrobenzene	600	590.064	98	
PETN	600	651.449	109	
RDX	600	671.226	112	
Tetryl	600	612.056	102	
m-Dinitrobenzene	600	588.611	98	
m-Nitrotoluene	600	569.905	95	
o-Nitrotoluene	600	542.331	90	
p-Nitrotoluene	600	595.86	99	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

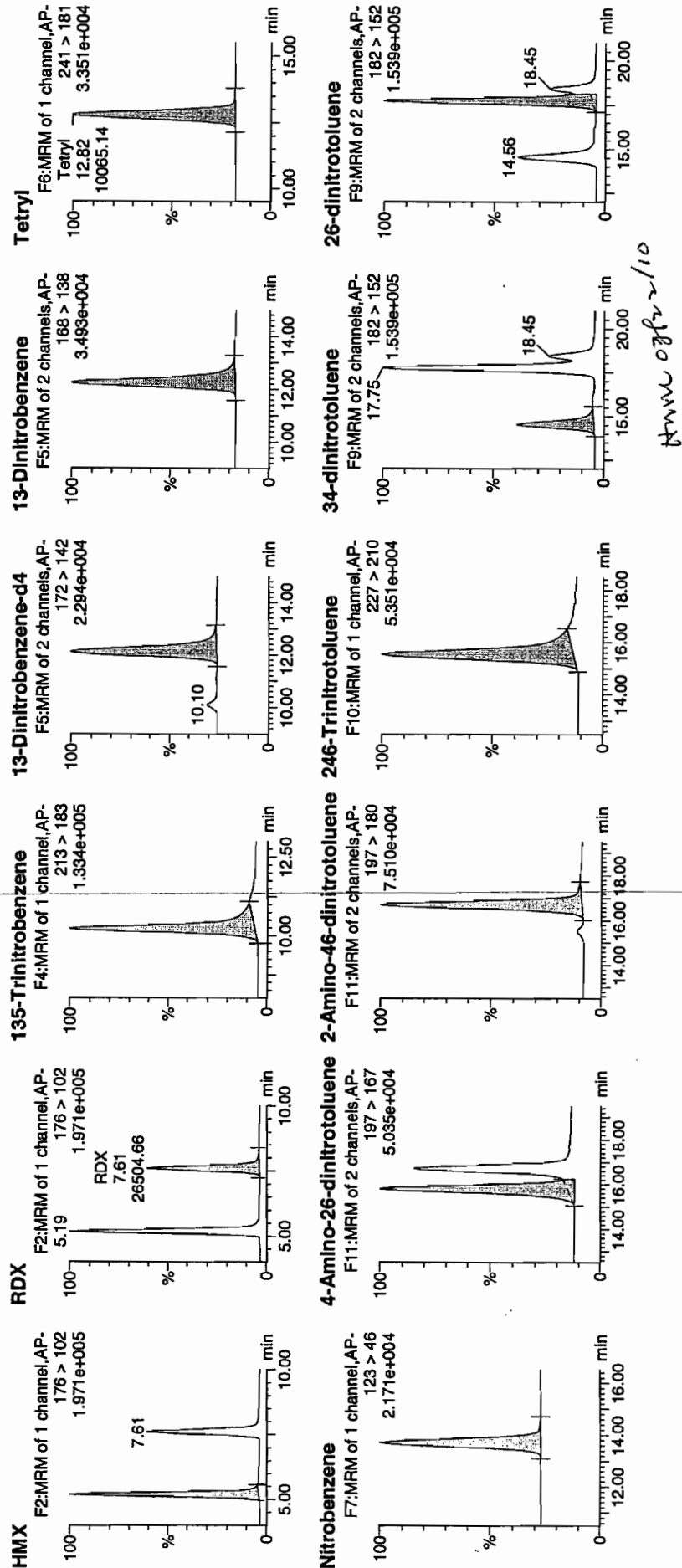
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

WXR
3/21/10

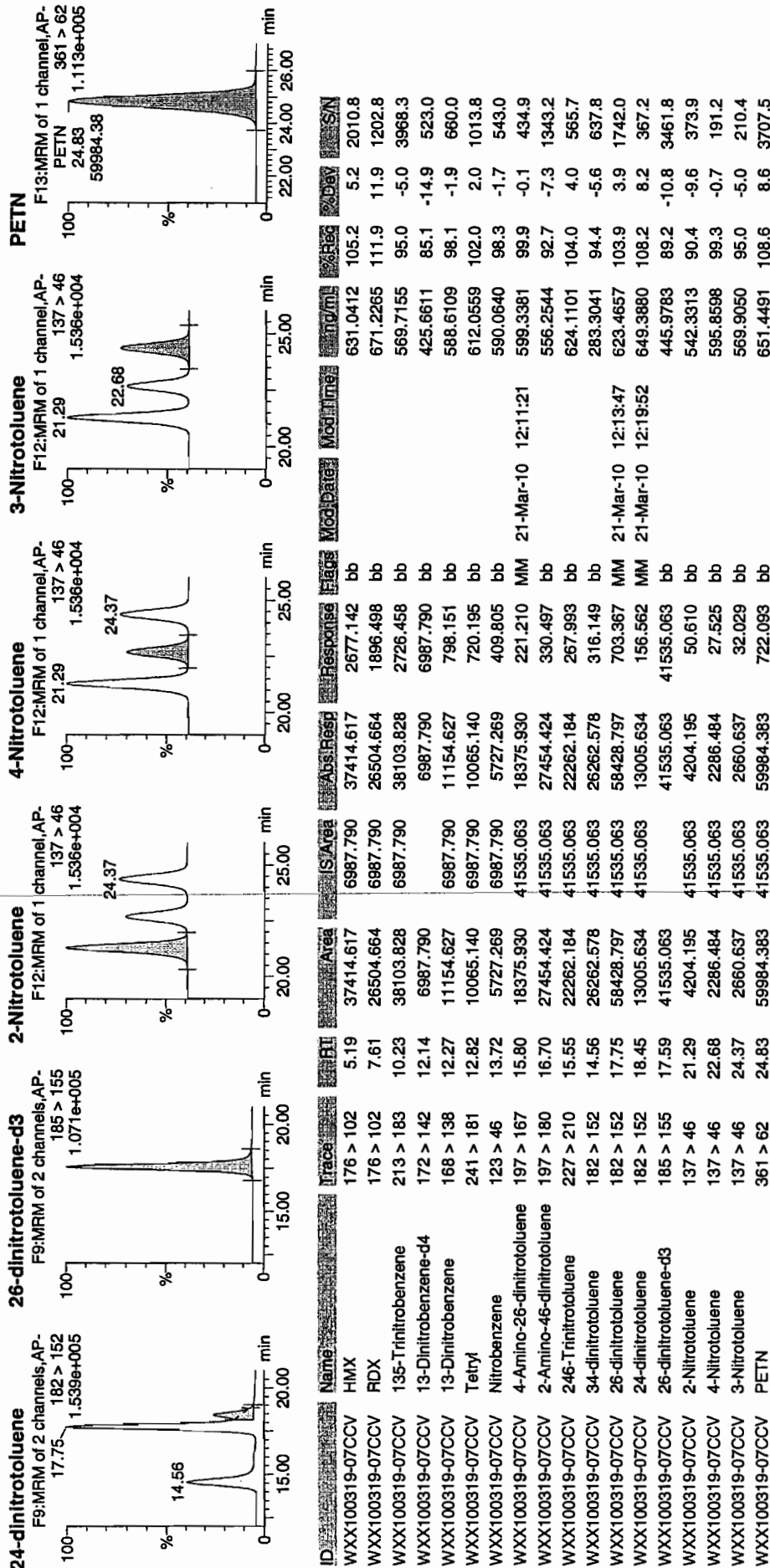


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 22 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/20/10
 Time of Injection: 1530
 Standard Number: WXX100319-07CCV
 Data File: EXP0319047a

HMX	105.2
RDX	111.9
135-TNB	95.0
13-DNB	98.1
Tetryl	102.0
Nitrobenzene	98.3
4A-26-DNT	99.9
2A-46-DNT	92.7
246-TNT	104.0
34-DNT(surr)	94.4
26-DNT	103.9
24-DNT	108.2
2-NT	90.4
4-NT	99.3
3-NT	95.0
PETN	108.6

*WXX
3/21/10*

Total 1606.9

Average 100.4

HMX 03/22/10

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319049a

Analysis Date: 20-MAR-10 16:30

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	42.36	106	
1,3-Dinitrobenzene-d4	500	425.894	85	
2,4,6-Trinitrotoluene	40	44.23	111	
2,4-Dinitrotoluene	40	50.779	127	
2,6-Dinitrotoluene	40	41.353	103	
2,6-Dinitrotoluene-d3	500	471.28	94	
2-Amino-4,6-dinitrotoluene	40	31.885	80	
3,4-Dinitrotoluene	20	20.064	100	
4-Amino-2,6-dinitrotoluene	40	44.304	111	
HMX	40	50.353	126	
Nitrobenzene	40	42.362	106	
PETN	40	46.335	116	
RDX	40	48.91	122	
Tetryl	40	25.298	63	*
m-Dinitrobenzene	40	41.003	103	
m-Nitrotoluene	40	36.41	91	
o-Nitrotoluene	40	36.545	91	
p-Nitrotoluene	40	46.73	117	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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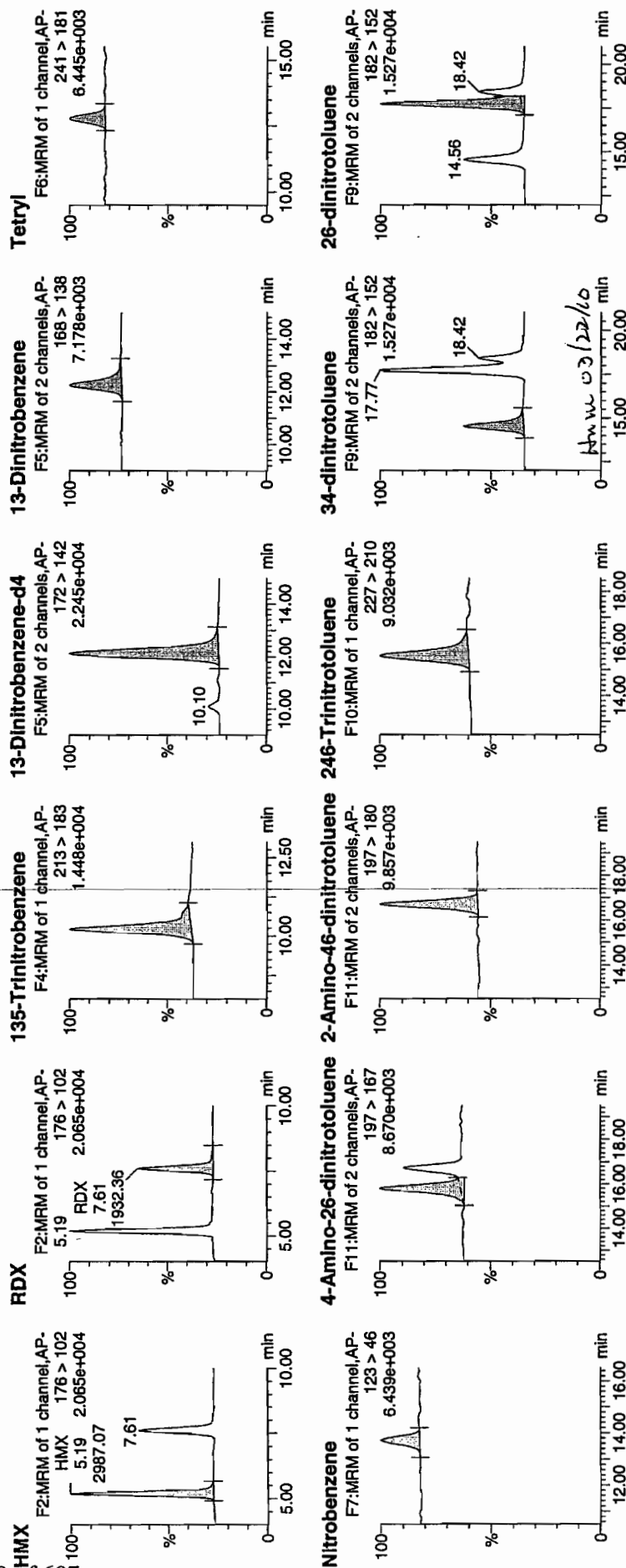
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Time: 16:30:07

ID: WXX100319-08CRI

Vial: 1:1,C

11/17
3/22/10



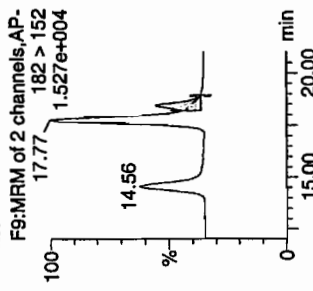
Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

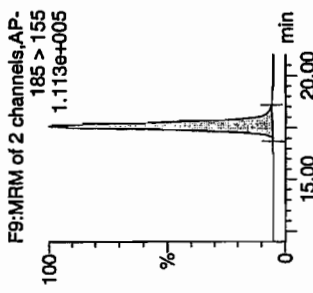
Printed: Sun Mar 21 12:22:16 2010, Page 26 of 103

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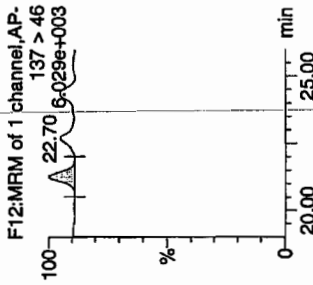
24-dinitrotoluene



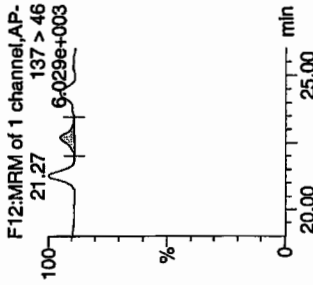
26-dinitrotoluene-d3



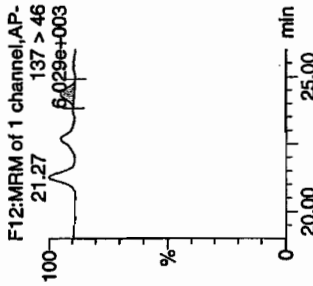
2-Nitrotoluene



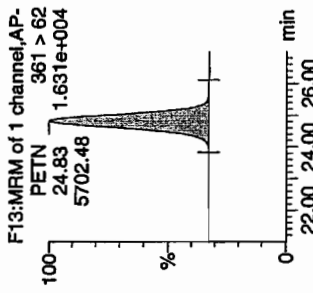
4-Nitrotoluene



3-Nitrotoluene



PETN



ID#	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Rec	%Dev	SN
WXX100319-08CRI	HMX	176 > 102	5.19	2987.070	6991.611	2987.070	213.618	bb			50.3529	125.9	25.9	373.1
WXX100319-08CRI	RDX	176 > 102	7.61	1932.358	6991.611	1932.358	138.191	bb			48.9099	122.3	22.3	197.7
WXX100319-08CRI	135-Trinitrobenzene	213 > 183	10.21	2834.697	6991.611	2834.697	202.721	bb			42.3603	105.9	5.9	199.3
WXX100319-08CRI	13-Dinitrobenzene-d4	172 > 142	12.14	6991.611		6991.611	6991.611	bb			425.8939	85.2	-14.8	899.9
WXX100319-08CRI	13-Dinitrobenzene	168 > 138	12.27	777.468	6991.611	777.468	55.600	bb			41.0033	102.5	2.5	131.6
WXX100319-08CRI	Tetryl	241 > 181	12.77	416.251	6991.611	416.251	29.768	bb			25.2982	63.2	-36.8	29.6
WXX100319-08CRI	Nitrobenzene	123 > 46	13.72	411.401	6991.611	411.401	29.421	bb			42.3623	105.9	5.9	55.9
WXX100319-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.80	1435.456	43891.473	1435.456	16.352	MM	21-Mar-10	12:11:31	44.3044	110.8	10.8	107.4
WXX100319-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.70	1662.981	43891.473	1662.981	18.944	bb			31.8848	79.7	-20.3	275.1
WXX100319-08CRI	246-Trinitrotoluene	227 > 210	15.55	1667.206	43891.473	1667.206	18.992	bb			44.2301	110.6	10.6	96.1
WXX100319-08CRI	34-dinitrotoluene	182 > 152	14.56	1965.484	43891.473	1965.484	22.390	bb			20.0641	100.3	0.3	120.4
WXX100319-08CRI	26-dinitrotoluene	182 > 152	17.77	4095.347	43891.473	4095.347	46.653	MM	21-Mar-10	12:13:53	41.3534	103.4	3.4	290.1
WXX100319-08CRI	24-dinitrotoluene	182 > 152	18.42	1074.681	43891.473	1074.681	12.242	MM	21-Mar-10	12:19:43	50.7793	126.9	26.9	84.5
WXX100319-08CRI	26-dinitrotoluene-d3	185 > 155	17.59	43891.473		43891.473	43891.473	bb			471.2800	94.3	-5.7	2857.7
WXX100319-08CRI	2-Nitrotoluene	137 > 46	21.27	299.370	43891.473	299.370	3.410	bb			36.5447	91.4	-8.6	39.7
WXX100319-08CRI	4-Nitrotoluene	137 > 46	22.70	189.488	43891.473	189.488	2.159	bb			46.7296	116.8	16.8	21.2
WXX100319-08CRI	3-Nitrotoluene	137 > 46	24.38	179.625	43891.473	179.625	2.046	bb			36.4098	91.0	-9.0	21.1
WXX100319-08CRI	PETN	361 > 62	24.83	5702.477	43891.473	5702.477	64.961	bb			46.3349	115.8	15.8	1313.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/20/10
 Time of Injection 1630
 Standard Number WXX100319-08CRI
 Data File EXP0319049a

HMX	125.9
RDX	122.3
135-TNB	105.9
13-DNB	102.5
Tetryl	63.2
Nitrobenzene	105.9
4A-26-DNT	110.8
2A-46-DNT	79.7
246-TNT	110.6
34-DNT(surr)	100.3
26-DNT	103.4
24-DNT	126.9
2-NT	91.4
4-NT	116.8
3-NT	91.0
PETN	115.8

*MHT
3/21/10*

Total 1672.4

Hmw 03/22/10

Average 104.5

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319059a

Analysis Date: 20-MAR-10 21:24

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	604.918	101	
1,3-Dinitrobenzene-d4	500	391.283	78	*
2,4,6-Trinitrotoluene	600	602.348	100	
2,4-Dinitrotoluene	600	703.344	117	
2,6-Dinitrotoluene	600	626.187	104	
2,6-Dinitrotoluene-d3	500	419.09	84	
2-Amino-4,6-dinitrotoluene	600	583.672	97	
3,4-Dinitrotoluene	300	286.477	95	
4-Amino-2,6-dinitrotoluene	600	584.489	97	
HMX	600	641.492	107	
Nitrobenzene	600	598.49	100	
PETN	600	712.406	119	
RDX	600	712.175	119	
Tetryl	600	662.828	110	
m-Dinitrobenzene	600	609.817	102	
m-Nitrotoluene	600	582.842	97	
o-Nitrotoluene	600	678.142	113	
p-Nitrotoluene	600	608.825	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

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319059a

Date: 20-Mar-2010

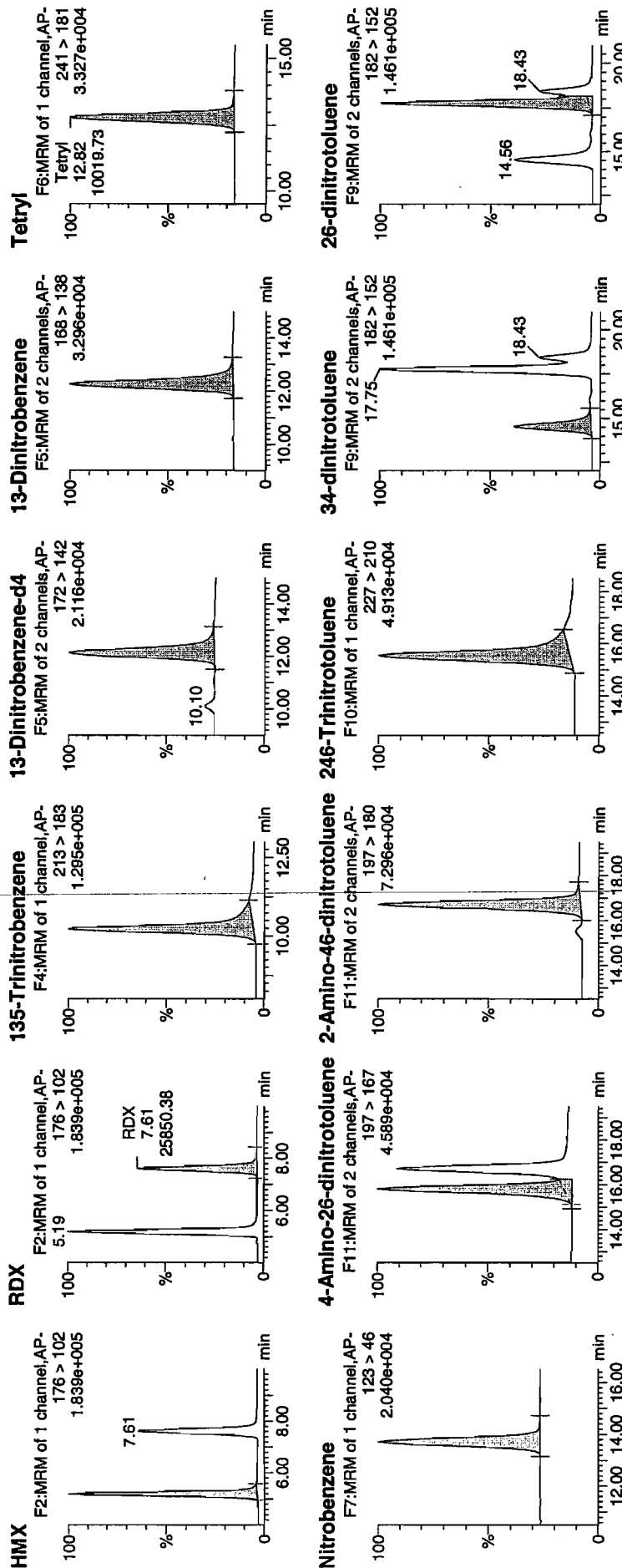
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ID: WXX100319-07CCV

Vial: 1:1,B

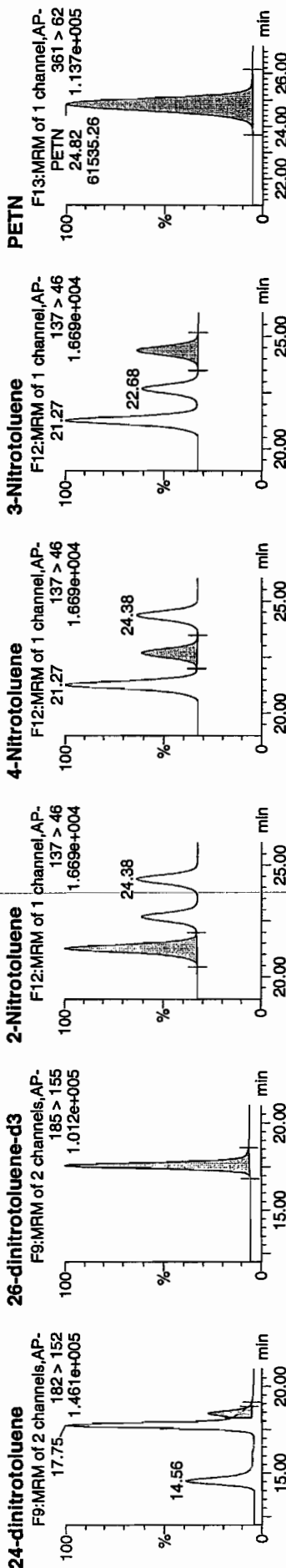
Page 313 of 607

11/11/10



Dataset: C:\MASSLYNX\New_Exp\PROV031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

ID	Name	Trace	RT	Area	S Area	Abs Res	Response	Flag	Mod Date	Mod Time	Norm	%Rec	%Dev	SN
WXX100319-07CCV	HMX	176 > 102	5.19	34962.406	6423.422	34962.406	2721.478	bb			641.4918	106.9	6.9	2067.4
WXX100319-07CCV	FDX	176 > 102	7.61	25850.375	6423.422	25850.375	2012.197	bb			712.1754	118.7	18.7	1300.6
WXX100319-07CCV	135-Trinitrobenzene	213 > 183	10.23	37190.629	6423.422	37190.629	2894.923	bb			604.9177	100.8	0.8	4285.5
WXX100319-07CCV	13-Dinitrobenzene-d4	172 > 142	12.14	6423.422	6423.422	6423.422	6423.422	bb			391.2827	78.3	-21.7	113.6
WXX100319-07CCV	13-Dinitrobenzene	168 > 138	12.27	10623.133	6423.422	10623.133	826.906	bb			609.8166	101.6	1.6	900.8
WXX100319-07CCV	Tetryl	241 > 181	12.82	10019.733	6423.422	10019.733	779.937	bb			662.8280	110.5	10.5	585.0
WXX100319-07CCV	Nitrobenzene	123 > 46	13.72	5339.883	6423.422	5339.883	415.657	bb			598.4897	99.7	-0.3	313.3
WXX100319-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.80	16840.205	39030.863	16840.205	215.729	MM	21-Mar-10	12:11:51	584.4894	97.4	-2.6	621.9
WXX100319-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.71	27070.818	39030.863	27070.818	346.787	bb			583.6724	97.3	-2.7	1398.5
WXX100319-07CCV	246-Trinitrotoluene	227 > 210	15.55	20190.518	39030.863	20190.518	258.648	bb			602.3482	100.4	0.4	792.7
WXX100319-07CCV	34-dinitrotoluene	182 > 152	14.56	24955.525	39030.863	24955.525	319.690	bb			286.4765	95.5	-4.5	1133.0
WXX100319-07CCV	26-dinitrotoluene	182 > 152	17.75	55145.715	39030.863	55145.715	706.437	MM	21-Mar-10	12:14:06	626.1871	104.4	4.4	3082.0
WXX100319-07CCV	24-dinitrotoluene	182 > 152	18.43	13236.961	39030.863	13236.961	169.570	MM	21-Mar-10	12:19:35	703.3439	117.2	17.2	734.3
WXX100319-07CCV	26-dinitrotoluene-d3	185 > 155	17.58	39030.863	39030.863	39030.863	39030.863	bb			419.0897	83.8	-16.2	2136.3
WXX100319-07CCV	2-Nitrotoluene	137 > 46	21.27	4940.057	39030.863	4940.057	63.284	bb			678.1417	113.0	13.0	263.4
WXX100319-07CCV	4-Nitrotoluene	137 > 46	22.68	2195.381	39030.863	2195.381	28.124	bb			608.8251	101.5	1.5	109.5
WXX100319-07CCV	3-Nitrotoluene	137 > 46	24.38	2556.979	39030.863	2556.979	32.756	bb			582.8419	97.1	-2.9	120.4
WXX100319-07CCV	PETN	361 > 62	24.82	61535.258	39030.863	61535.258	788.290	bb			712.4055	118.7	18.7	6882.2



GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/20/10
 Time of Injection: 2124
 Standard Number: WXX100319-07CCV
 Data File: EXP0319059a

HMX	106.9
RDX	118.7
135-TNB	100.8
13-DNB	101.6
Tetryl	110.5
Nitrobenzene	99.7
4A-26-DNT	97.4
2A-46-DNT	97.3
246-TNT	100.4
34-DNT(surr)	95.5
26-DNT	104.4
24-DNT	117.2
2-NT	113.0
4-NT	101.5
3-NT	97.1
PETN	118.7

*WTF
3/21/10*

Total 1680.7

Sum 03/22/10

Average 105.0

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319061a

Analysis Date: 20-MAR-10 22:24

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	40	37.649	94	
HMX	40	46.909	117	
Nitrobenzene	40	41.889	105	
PETN	40	49.601	124	
RDX	40	44.557	111	
Tetryl	40	25.35	63	*
m-Dinitrobenzene	40	41.331	103	
m-Nitrotoluene	40	49.186	123	
o-Nitrotoluene	40	35.398	88	
p-Nitrotoluene	40	37.225	93	
1,3,5-Trinitrobenzene	40	39.755	99	
1,3-Dinitrobenzene-d4	500	433.946	87	
2,4,6-Trinitrotoluene	40	36.564	91	
2,4-Dinitrotoluene	40	42.81	107	
2,6-Dinitrotoluene	40	40.694	102	
2,6-Dinitrotoluene-d3	500	474.965	95	
2-Amino-4,6-dinitrotoluene	40	34.564	86	
3,4-Dinitrotoluene	20	18.719	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

Dataset: C:\MASSLYNX\New_Exp\PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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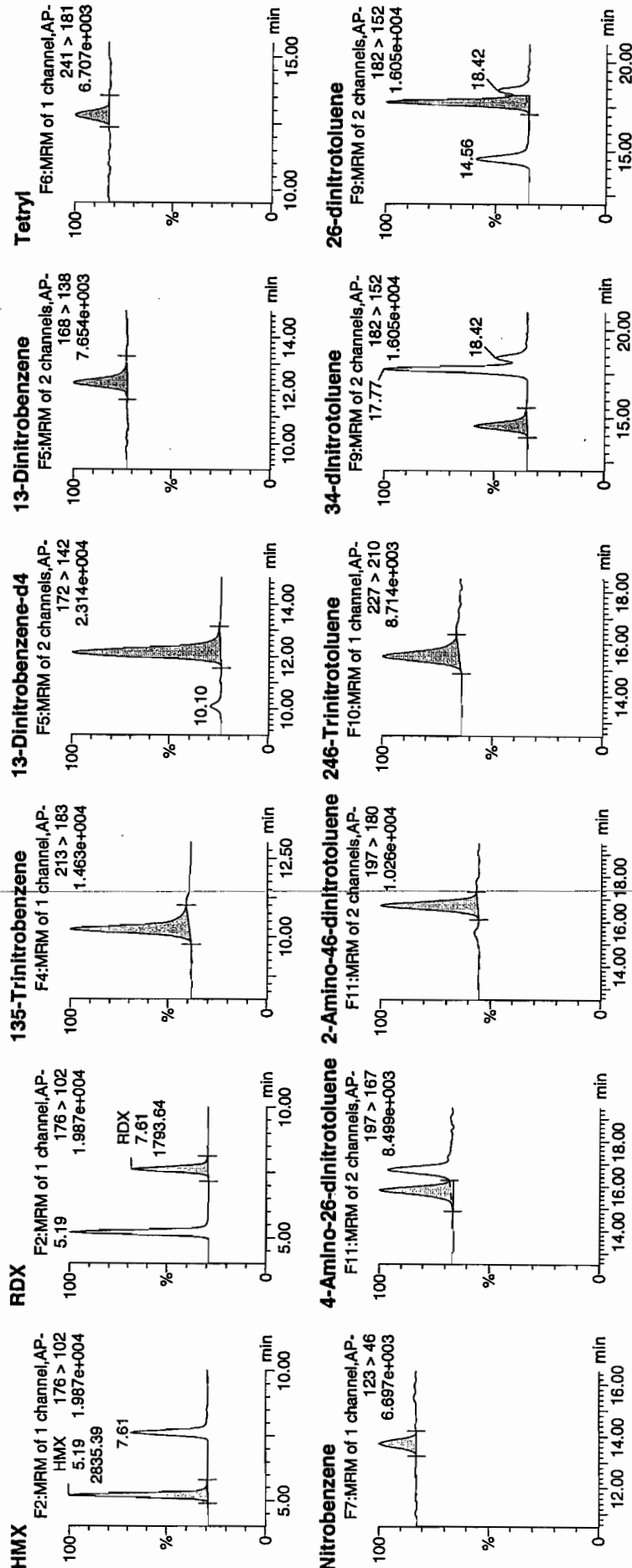
Date: 20-Mar-2010

Time: 22:24:03

ID: WXX100319-08CRI

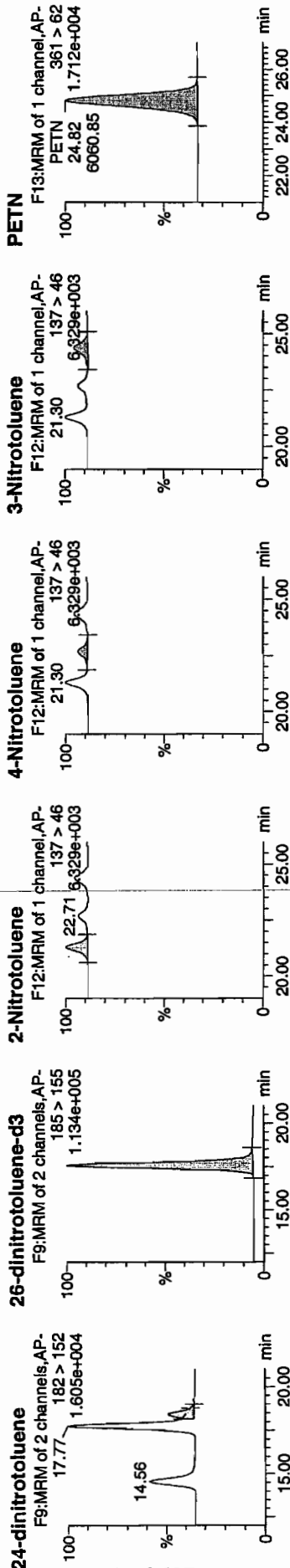
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copy
3/21/10



Handwritten note: 0.322 1.0

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



ID	Name	Trace	HT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Area	%Dev	SN
WXX100319-08CRI	HMZ	176 > 102	5.19	2835.387	7123.790	2835.387	199.008	bb			46.9091	117.3	473.3
WXX100319-08CRI	RDX	176 > 102	7.61	1793.642	7123.790	1793.642	125.891	bb			44.5565	111.4	258.5
WXX100319-08CRI	135-Trinitrobenzene	213 > 183	10.23	2710.655	7123.790	2710.655	190.254	bb			39.7551	99.4	314.7
WXX100319-08CRI	13-Dinitrobenzene-d4	172 > 142	12.14	7123.790		7123.790	7123.790	bb			433.9456	86.8	619.3
WXX100319-08CRI	13-Dinitrobenzene	168 > 138	12.27	798.506	7123.790	798.506	56.045	bb			41.3314	103.3	100.2
WXX100319-08CRI	Tetryl	241 > 181	12.82	424.986	7123.790	424.986	29.829	bb			25.3504	63.4	29.5
WXX100319-08CRI	Nitrobenzene	123 > 46	13.72	414.494	7123.790	414.494	29.092	bb			41.8889	104.7	30.7
WXX100319-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.80	1229.342	44234.637	1229.342	13.896	MM	21-Mar-10	12:11:57	37.6485	94.1	95.7
WXX100319-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.73	1816.828	44234.637	1816.828	20.536	bb			34.5643	86.4	210.4
WXX100319-08CRI	246-Trinitrotoluene	227 > 210	15.55	1389.002	44234.637	1389.002	15.700	bb			36.5636	91.4	78.0
WXX100319-08CRI	34-dinitrotoluene	182 > 152	14.56	1848.027	44234.637	1848.027	20.889	bb			18.7187	93.6	92.4
WXX100319-08CRI	26-dinitrotoluene	182 > 152	17.77	4061.595	44234.637	4061.595	45.910	MM	21-Mar-10	12:14:13	40.6944	101.7	252.2
WXX100319-08CRI	24-dinitrotoluene	182 > 152	18.42	913.094	44234.637	913.094	10.321	MM	21-Mar-10	12:18:59	42.8095	107.0	52.4
WXX100319-08CRI	26-dinitrotoluene-d3	185 > 155	17.59	44234.637		44234.637	44234.637	bb			474.9646	95.0	2971.1
WXX100319-08CRI	2-Nitrotoluene	137 > 46	21.30	292.239	44234.637	292.239	3.303	bb			35.3975	88.5	80.6
WXX100319-08CRI	4-Nitrotoluene	137 > 46	22.71	152.125	44234.637	152.125	1.720	bb			37.2245	93.1	35.1
WXX100319-08CRI	3-Nitrotoluene	137 > 46	24.38	244.551	44234.637	244.551	2.764	bb			49.1857	123.0	49.7
WXX100319-08CRI	PETN	361 > 62	24.82	6060.848	44234.637	6060.848	68.508	bb			49.6010	124.0	1680.0

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/20/10
 Time of Injection 2224
 Standard Number WXX100319-08CRI
 Data File EXP0319061a

HMX	117.3
RDX	111.4
135-TNB	99.4
13-DNB	103.3
Tetryl	63.4
Nitrobenzene	104.7
4A-26-DNT	94.1
2A-46-DNT	86.4
246-TNT	91.4
34-DNT(surr)	93.6
26-DNT	101.7
24-DNT	107.0
2-NT	88.5
4-NT	93.1
3-NT	123.0
PETN	124.0

1077
3/22/10

Total 1602.3

Average 100.1

Handwritten: 03/22/10

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319072a

Analysis Date: 21-MAR-10 03:48

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
Nitrobenzene	600	620.682	103	
PETN	600	690.817	115	
RDX	600	787.952	131	*
Tetryl	600	666.135	111	
m-Dinitrobenzene	600	594.347	99	
m-Nitrotoluene	600	590.019	98	
o-Nitrotoluene	600	577.148	96	
p-Nitrotoluene	600	592.981	99	
1,3,5-Trinitrobenzene	600	609.061	102	
1,3-Dinitrobenzene-d4	500	385.16	77	*
2,4,6-Trinitrotoluene	600	601.271	100	
2,4-Dinitrotoluene	600	656.41	109	
2,6-Dinitrotoluene	600	626.218	104	
2,6-Dinitrotoluene-d3	500	416.487	83	
2-Amino-4,6-dinitrotoluene	600	584.288	97	
3,4-Dinitrotoluene	300	291.784	97	
4-Amino-2,6-dinitrotoluene	600	604.71	101	
HMX	600	637.803	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate),TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

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

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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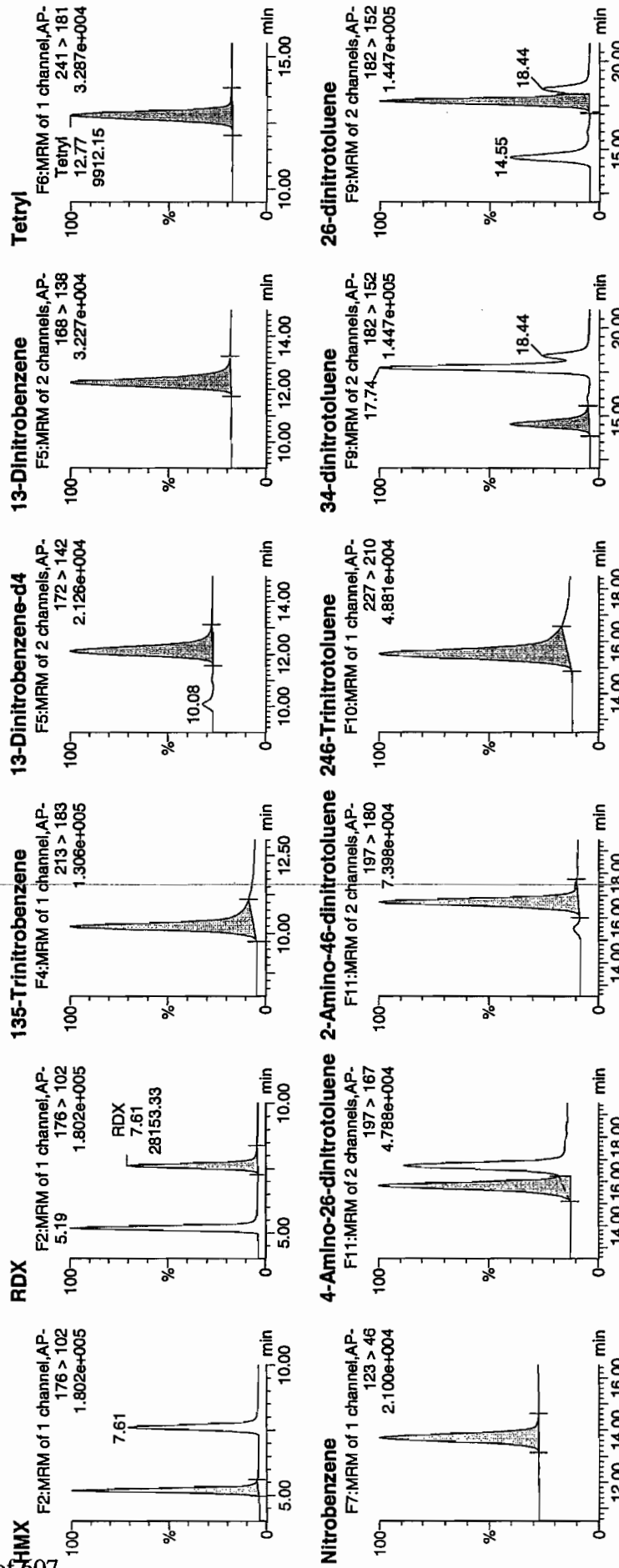
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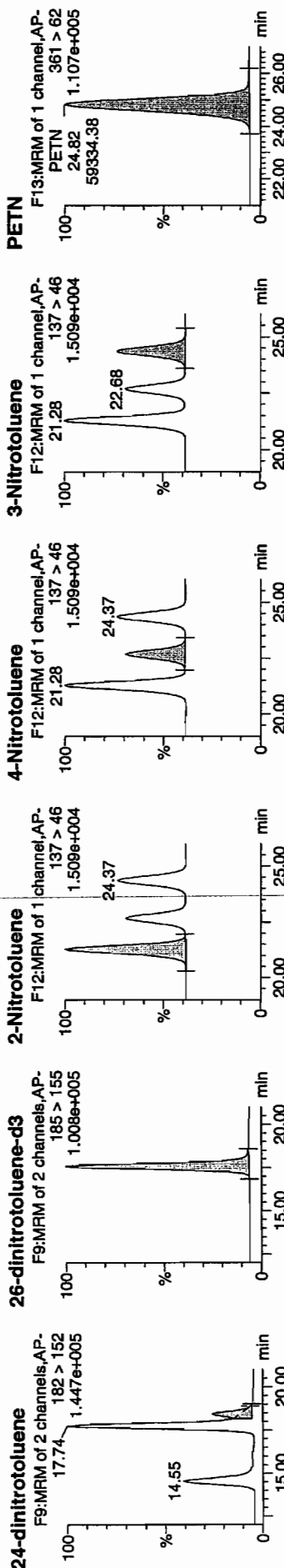
ID: WXX100319-07CCV

Label: 1:1,B

of 607



Handwritten note: 03/21/10



ID	Name	Trace	RT	Area	IS Area	Abt Resp	Response	Flags	Mod Date	Mod Time	NormL	%Rec	%Dev	SN
WXX100319-07CCV	HMX	176 > 102	5.19	34217.418	6322.907	34217.418	2705.830	bb			637.8032	106.3	6.3	4995.5
WXX100319-07CCV	RDX	176 > 102	7.61	28153.328	6322.907	28153.328	2226.296	bb			787.9516	131.3	31.3	3472.1
WXX100319-07CCV	135-Trinitrobenzene	213 > 183	10.23	36859.422	6322.907	36859.422	2914.753	bb			609.0613	101.5	1.5	2365.3
WXX100319-07CCV	13-Dinitrobenzene-d4	172 > 142	12.14	6322.907		6322.907	6322.907	bb			385.1598	77.0	-23.0	705.8
WXX100319-07CCV	13-Dinitrobenzene	168 > 138	12.28	10191.625	6322.907	10191.625	805.929	bb			594.3465	99.1	-0.9	1061.6
WXX100319-07CCV	Tetryl	241 > 181	12.77	9912.153	6322.907	9912.153	783.829	bb			666.1351	111.0	11.0	716.8
WXX100319-07CCV	Nitrobenzene	123 > 46	13.71	5451.228	6322.907	5451.228	431.070	bb			620.6817	103.4	3.4	596.7
WXX100319-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.79	17314.594	38788.473	17314.594	223.193	MM	21-Mar-10	12:12:35	604.7099	100.8	0.8	764.0
WXX100319-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.70	26931.090	38788.473	26931.090	347.153	bb			584.2883	97.4	-2.6	327.9
WXX100319-07CCV	246-Trinitrotoluene	227 > 210	15.54	20029.232	38788.473	20029.232	258.185	bb			601.2706	100.2	0.2	1989.8
WXX100319-07CCV	34-dinitrotoluene	182 > 152	14.55	25259.988	38788.473	25259.988	325.612	bb			291.7836	97.3	-2.7	585.7
WXX100319-07CCV	26-dinitrotoluene	182 > 152	17.74	54805.977	38788.473	54805.977	706.472	MM	21-Mar-10	12:15:12	626.2183	104.4	4.4	1539.7
WXX100319-07CCV	24-dinitrotoluene	182 > 152	18.44	12276.950	38788.473	12276.950	158.255	MM	21-Mar-10	12:18:16	656.4103	109.4	9.4	330.5
WXX100319-07CCV	26-dinitrotoluene-d3	185 > 155	17.59	38788.473		38788.473	38788.473	bb			416.4870	83.3	-16.7	2490.1
WXX100319-07CCV	2-Nitrotoluene	137 > 46	21.28	4178.239	38788.473	4178.239	53.859	bb			577.1481	96.2	-3.8	678.6
WXX100319-07CCV	4-Nitrotoluene	137 > 46	22.68	2124.971	38788.473	2124.971	27.392	bb			592.9814	98.8	-1.2	334.1
WXX100319-07CCV	3-Nitrotoluene	137 > 46	24.37	2572.389	38788.473	2572.389	33.159	bb			590.0186	98.3	-1.7	383.5
WXX100319-07CCV	PETN	361 > 62	24.82	59334.383	38788.473	59334.383	764.846	bb			690.8172	115.1	15.1	14727.9

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/21/10
 Time of Injection: 0348
 Standard Number: WXX100319-07CCV
 Data File: EXP0319072a

HMX	106.3
RDX	131.3
135-TNB	101.5
13-DNB	99.1
Tetryl	111.0
Nitrobenzene	103.4
4A-26-DNT	100.8
2A-46-DNT	97.4
246-TNT	100.2
34-DNT(surr)	97.3
26-DNT	104.4
24-DNT	109.4
2-NT	96.2
4-NT	98.8
3-NT	98.3
PETN	115.1

*mtf
3/21/10*

Total 1670.5

Sum 03/22/10

Average 104.4

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319074a

Analysis Date: 21-MAR-10 04:47

LCMSMS ID: 903

Column ID Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	39.357	98	
1,3-Dinitrobenzene-d4	500	408.962	82	
2,4,6-Trinitrotoluene	40	34.491	86	
2,4-Dinitrotoluene	40	41.823	105	
2,6-Dinitrotoluene	40	39.812	100	
2,6-Dinitrotoluene-d3	500	446.738	89	
2-Amino-4,6-dinitrotoluene	40	36.125	90	
3,4-Dinitrotoluene	20	18.599	93	
4-Amino-2,6-dinitrotoluene	40	36.219	91	
HMX	40	44.998	112	
Nitrobenzene	40	45.494	114	
PETN	40	47.233	118	
RDX	40	43.597	109	
Tetryl	40	20.539	51	*
m-Dinitrobenzene	40	44.141	110	
m-Nitrotoluene	40	37.676	94	
o-Nitrotoluene	40	44.018	110	
p-Nitrotoluene	40	43.804	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 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 75 of 103

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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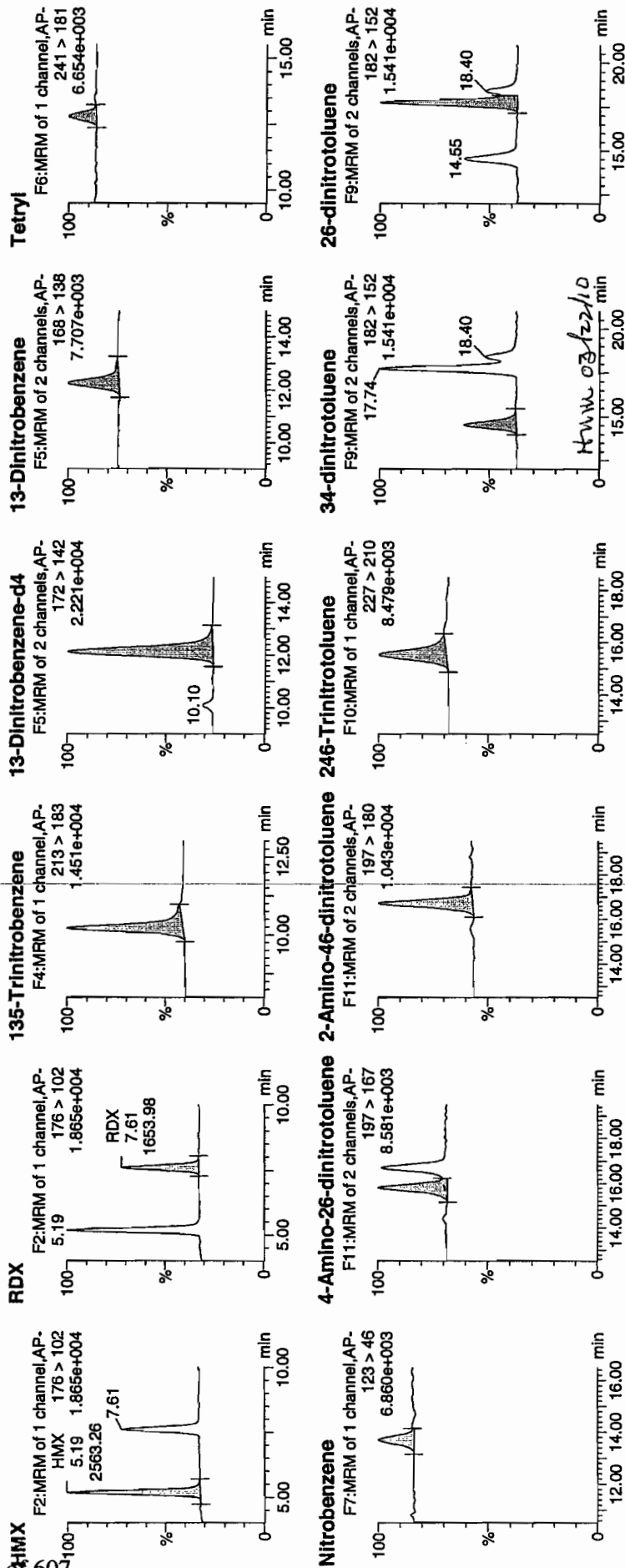
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Time: 04:47:39

AD: WXX100319-08CRI

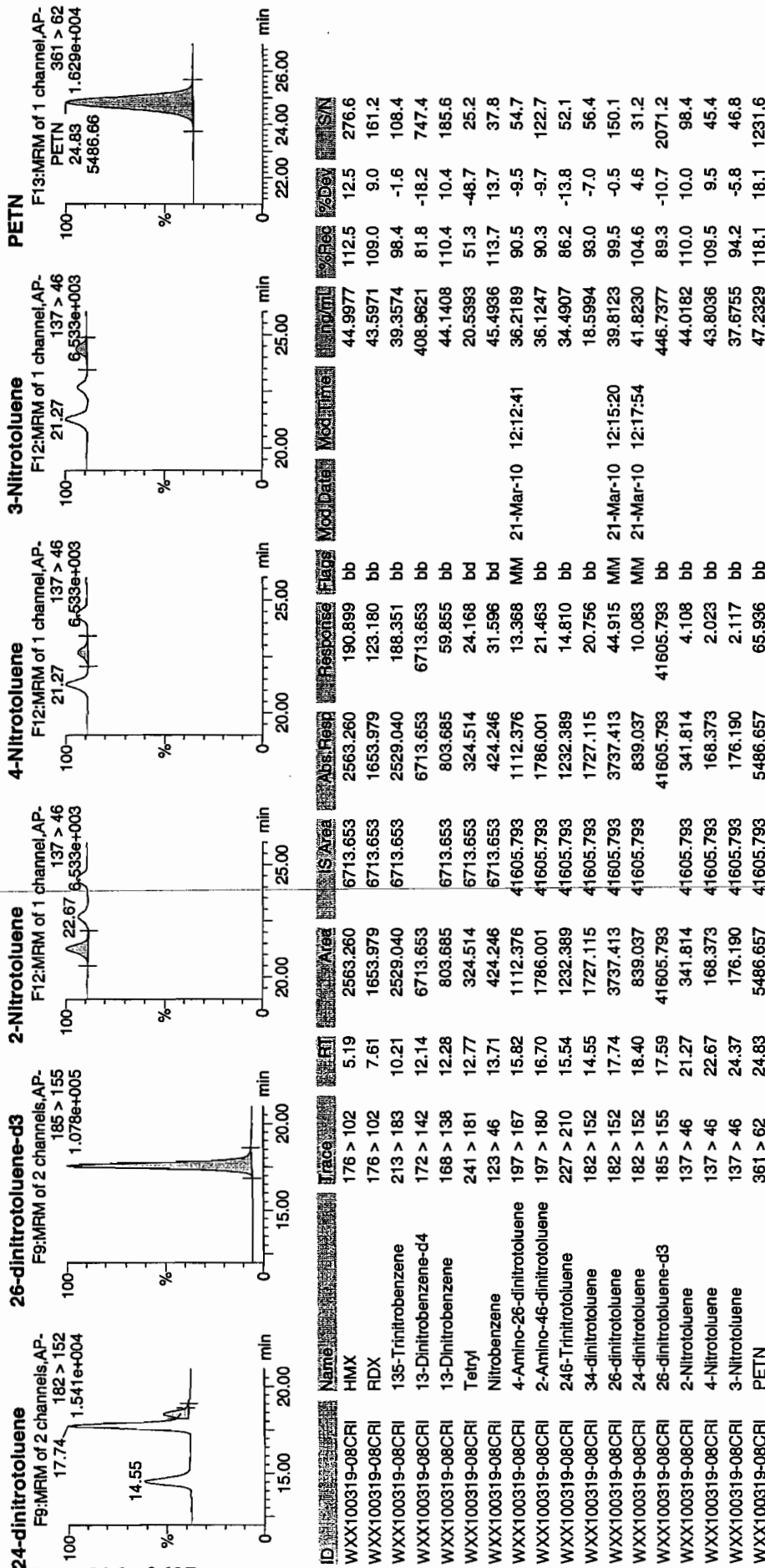
Y/al: 1:1,C

10/10
3/10/10



GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/21/10
 Time of Injection 0447
 Standard Number WXX100319-08CRI
 Data File EXP0319074a

HMX	112.5
RDX	109.0
135-TNB	98.4
13-DNB	110.4
Tetryl	51.3
Nitrobenzene	113.7
4A-26-DNT	90.5
2A-46-DNT	90.3
246-TNT	86.2
34-DNT(surr)	93.0
26-DNT	99.5
24-DNT	104.6
2-NT	110.0
4-NT	109.5
3-NT	94.2
PETN	118.1

*WHT
3/22/10*

Total 1591.2

Average 99.5

HMM 03/22/10

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0319085a

Analysis Date: 21-MAR-10 10:12

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
4-Amino-2,6-dinitrotoluene	600	593.077	99	
HMX	600	676.371	113	
Nitrobenzene	600	624.509	104	
PETN	600	745.37	124	*
RDX	600	767.211	128	*
Tetryl	600	665.835	111	
m-Dinitrobenzene	600	618.015	103	
m-Nitrotoluene	600	583.902	97	
o-Nitrotoluene	600	575.222	96	
p-Nitrotoluene	600	597.806	100	
1,3,5-Trinitrobenzene	600	622.239	104	
1,3-Dinitrobenzene-d4	500	373.862	75	*
2,4,6-Trinitrotoluene	600	609.464	102	
2,4-Dinitrotoluene	600	643.133	107	
2,6-Dinitrotoluene	600	623.154	104	
2,6-Dinitrotoluene-d3	500	408.708	82	
2-Amino-4,6-dinitrotoluene	600	576.268	96	
3,4-Dinitrotoluene	300	285.954	95	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene, 2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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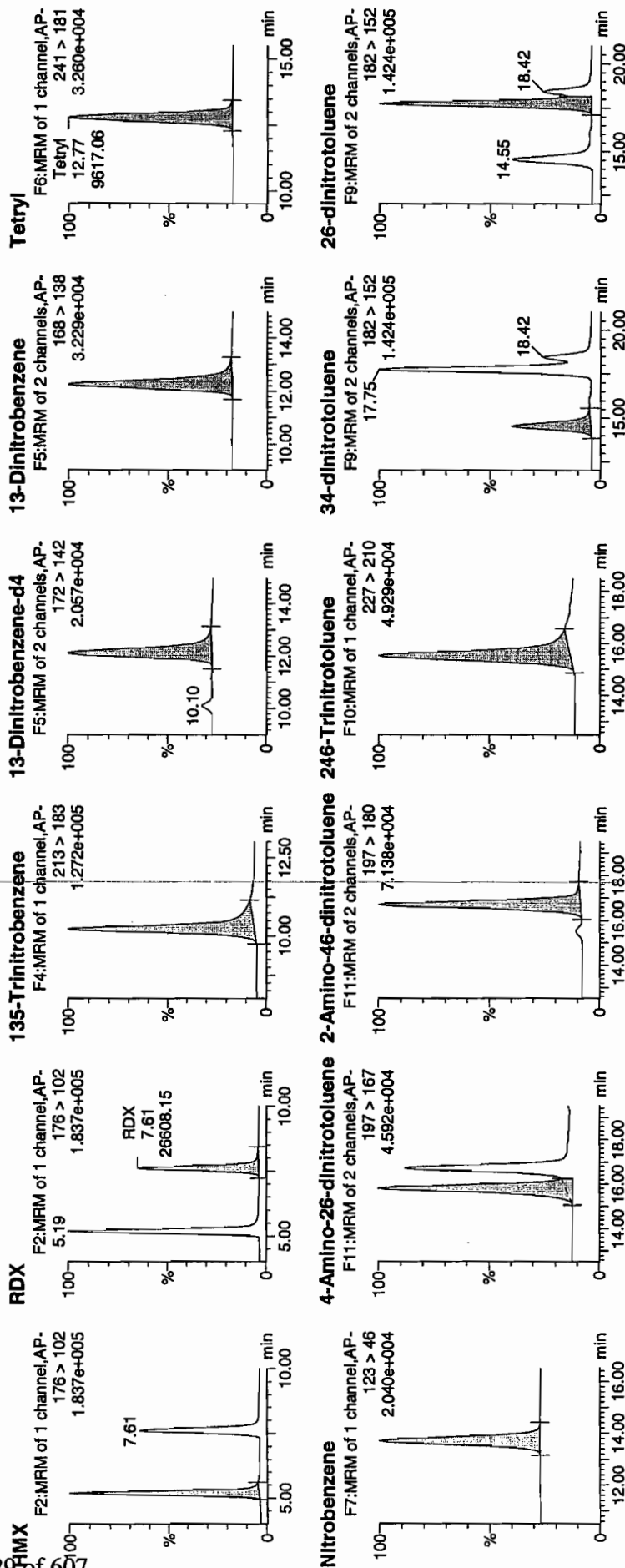
Date: 21-Mar-2010

Time: 10:12:13

ID: WXX100319-07CCV

Vial: 1:1,B

MTT
3/21/10



MM = Manual Modification

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Sun Mar 21 12:22:16 2010, Page 98 of 103

Dataset: C:\MASSLYNX\New_Exp_PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

1.424e+005

17.75

14.55

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

9.850e+004

17.75

14.55

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

%

min

20.00

0

100

2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.474e+004

24.37

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.474e+004

24.37

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

1.474e+004

24.37

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

%

min

25.00

0

100

PETN

F13:MRM of 1 channel,AP-

361 > 62

1.156e+005

24.82

min

26.00

0

100

%

min

26.00

0

100

%

min

26.00

0

100

%

min

26.00

0

100

%

min

26.00

0

100

%

min

26.00

0

100

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ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Mod User	%Reb	%Dev	SN
WXX100319-07CCV	HMX	176 > 102	5.19	35222.121	6137.431	35222.121	2869.451	bb				112.7	12.7	3178.9
WXX100319-07CCV	RDX	176 > 102	7.61	26608.150	6137.431	26608.150	2167.694	bb				127.9	27.9	2038.8
WXX100319-07CCV	135-Trinitrobenzene	213 > 183	10.23	36552.316	6137.431	36552.316	2977.819	bb				103.7	3.7	3371.1
WXX100319-07CCV	13-Dinitrobenzene-d4	172 > 142	12.14	6137.431		6137.431	6137.431	bb				74.8	-25.2	882.4
WXX100319-07CCV	13-Dinitrobenzene	168 > 138	12.24	10286.623	6137.431	10286.623	838.024	bb				103.0	3.0	1511.3
WXX100319-07CCV	Tetryl	241 > 181	12.77	9617.055	6137.431	9617.055	783.476	db				111.0	11.0	761.4
WXX100319-07CCV	Nitrobenzene	123 > 46	13.71	5323.953	6137.431	5323.953	433.728	bb				104.1	4.1	441.6
WXX100319-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.79	16664.330	38063.977	16664.330	218.899	MM	21-Mar-10	12:12:51		98.8	-1.2	322.0
WXX100319-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.70	26065.289	38063.977	26065.289	342.388	bb				96.0	-4.0	1927.7
WXX100319-07CCV	246-Trinitrotoluene	227 > 210	15.54	19922.977	38063.977	19922.977	261.704	bb				101.6	1.6	2110.3
WXX100319-07CCV	34-dinitrotoluene	182 > 152	14.55	24292.951	38063.977	24292.951	319.107	bb				95.3	-4.7	1566.3
WXX100319-07CCV	26-dinitrotoluene	182 > 152	17.75	53519.164	38063.977	53519.164	703.016	MM	21-Mar-10	12:15:35		103.9	3.9	4191.3
WXX100319-07CCV	24-dinitrotoluene	182 > 152	18.42	11803.954	38063.977	11803.954	155.054	MM	21-Mar-10	12:17:39		107.2	7.2	893.4
WXX100319-07CCV	26-dinitrotoluene-d3	185 > 155	17.57	38063.977		38063.977	38063.977	bb				81.7	-18.3	4771.4
WXX100319-07CCV	2-Nitrotoluene	137 > 46	21.28	4086.513	38063.977	4086.513	53.680	bb				95.9	-4.1	569.0
WXX100319-07CCV	4-Nitrotoluene	137 > 46	22.68	2102.245	38063.977	2102.245	27.615	bb				99.6	-0.4	285.7
WXX100319-07CCV	3-Nitrotoluene	137 > 46	24.37	2498.172	38063.977	2498.172	32.815	bb				97.3	-2.7	304.1
WXX100319-07CCV	PETN	361 > 62	24.82	62736.121	38063.977	62736.121	824.088	bb				124.2	24.2	8602.4

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/21/10
 Time of Injection: 1012
 Standard Number: WXX100319-07CCV
 Data File: EXP0319085a

HMX	112.7
RDX	127.9
135-TNB	103.7
13-DNB	103.0
Tetryl	111.0
Nitrobenzene	104.1
4A-26-DNT	98.8
2A-46-DNT	96.0
246-TNT	101.6
34-DNT(surr)	95.3
26-DNT	103.9
24-DNT	107.2
2-NT	95.9
4-NT	99.6
3-NT	97.3
PETN	124.2

*MAT
3/22/10*

Total 1682.2

HMX 03/22/10

Average 105.1

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): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0319087a

Analysis Date: 21-MAR-10 11:11

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3-Dinitrobenzene-d4	500	398.558	80	
2,4,6-Trinitrotoluene	40	30.968	77	
2,4-Dinitrotoluene	40	43.668	109	
2,6-Dinitrotoluene	40	39.461	99	
2,6-Dinitrotoluene-d3	500	440.598	88	
2-Amino-4,6-dinitrotoluene	40	37.45	94	
3,4-Dinitrotoluene	20	19.519	98	
4-Amino-2,6-dinitrotoluene	40	40.454	101	
HMX	40	51.543	129	
Nitrobenzene	40	43.262	108	
PETN	40	55.476	139	*
RDX	40	48.268	121	
Tetryl	40	22.514	56	*
m-Dinitrobenzene	40	41.77	104	
m-Nitrotoluene	40	44.102	110	
o-Nitrotoluene	40	37.103	93	
p-Nitrotoluene	40	44.937	112	
1,3,5-Trinitrobenzene	40	42.334	106	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319087a

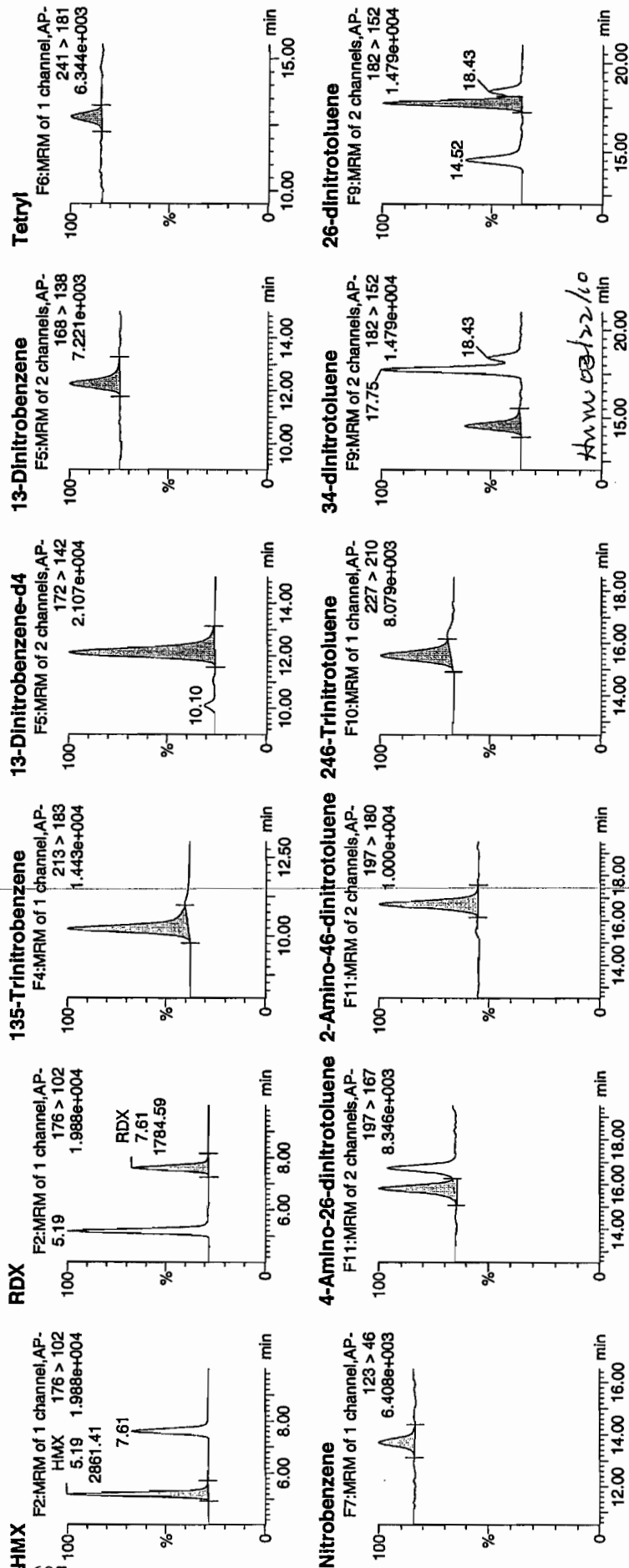
Date: 21-Mar-2010

Time: 11:11:18

ID: WXX100319-08CRI

Vial: 1:1,C

WXX
3/21/10



Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

1.479e+004

17.75

14.52

min

15.00

20.00

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26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

1.052e+005

22.68

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2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.045e+003

22.68

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4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.045e+003

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3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

6.045e+003

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PETN

F13:MRM of 1 channel,AP-

361 > 62

1.714e+004

24.81

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ID	Name	Trace	RT	Area	S Area	Abs.Rate	Response	File	Mod.Date	Mod.Time	Conc	%Rec	%Dev	SN
WXX100319-08CRI	HMX	176 > 102	5.19	2861.411	6542.854	2861.411	218.667	bb			51.5429	128.9	28.9	317.6
WXX100319-08CRI	RDX	176 > 102	7.61	1784.585	6542.854	1784.585	136.377	bb			48.2677	120.7	20.7	173.0
WXX100319-08CRI	135-Trinitrobenzene	213 > 183	10.23	2651.088	6542.854	2651.088	202.594	bb			42.3337	105.8	5.8	361.2
WXX100319-08CRI	13-Dinitrobenzene-d4	172 > 142	12.14	6542.854	6542.854	6542.854	6542.854	bb			398.5579	79.7	-20.3	515.7
WXX100319-08CRI	13-Dinitrobenzene	168 > 138	12.24	741.179	6542.854	741.179	56.640	bb			41.7704	104.4	4.4	92.6
WXX100319-08CRI	Tetryl	241 > 181	12.82	346.670	6542.854	346.670	26.492	bb			22.5144	56.3	-43.7	31.4
WXX100319-08CRI	Nitrobenzene	123 > 46	13.67	393.169	6542.854	393.169	30.046	bb			43.2617	108.2	8.2	38.8
WXX100319-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.80	1225.373	41033.965	1225.373	14.931	MM	21-Mar-10	12:12:57	40.4541	101.1	1.1	90.9
WXX100319-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.71	1826.056	41033.965	1826.056	22.251	bb			37.4495	93.6	-6.4	122.5
WXX100319-08CRI	246-Trinitrotoluene	227 > 210	15.52	1091.295	41033.965	1091.295	13.297	bb			30.9676	77.4	-22.6	82.6
WXX100319-08CRI	34-dinitrotoluene	182 > 152	14.52	1787.638	41033.965	1787.638	21.782	bb			19.5194	97.6	-2.4	79.8
WXX100319-08CRI	26-dinitrotoluene	182 > 152	17.75	3653.513	41033.965	3653.513	44.518	MM	21-Mar-10	12:15:43	39.4610	98.7	-1.3	200.6
WXX100319-08CRI	24-dinitrotoluene	182 > 152	18.43	864.010	41033.965	864.010	10.528	MM	21-Mar-10	12:17:31	43.6680	109.2	9.2	44.9
WXX100319-08CRI	26-dinitrotoluene-d3	185 > 155	17.57	41033.965	41033.965	41033.965	41033.965	bb			440.5978	88.1	-11.9	2911.4
WXX100319-08CRI	2-Nitrotoluene	137 > 46	21.28	284.156	41033.965	284.156	3.462	bb			37.1031	92.8	-7.2	69.7
WXX100319-08CRI	4-Nitrotoluene	137 > 46	22.68	170.357	41033.965	170.357	2.076	bb			44.9373	112.3	12.3	36.0
WXX100319-08CRI	3-Nitrotoluene	137 > 46	24.37	203.411	41033.965	203.411	2.479	bb			44.1024	110.3	10.3	41.2
WXX100319-08CRI	PETN	361 > 62	24.81	6145.922	41033.965	6145.922	74.888	bb			55.4762	138.7	38.7	1452.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/21/10
 Time of Injection 1111
 Standard Number WXX100319-08CRI
 Data File EXP0319087a

HMX	128.9
RDX	120.7
135-TNB	105.8
13-DNB	104.4
Tetryl	56.3
Nitrobenzene	108.2
4A-26-DNT	101.1
2A-46-DNT	93.6
246-TNT	77.4
34-DNT(surr)	97.6
26-DNT	98.7
24-DNT	109.2
2-NT	92.8
4-NT	112.3
3-NT	110.3
PETN	138.7

*MTT
3/21/10*

Total 1656.0

Sum 03/22/10

Average 103.5

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323012a

Analysis Date: 23-MAR-10 14:33

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	44.728	112	
1,3-Dinitrobenzene-d4	500	482.919	97	
2,4,6-Trinitrotoluene	40	35.085	88	
2,4-Dinitrotoluene	40	40.855	102	
2,6-Dinitrotoluene	40	39.526	99	
2,6-Dinitrotoluene-d3	500	484.851	97	
2-Amino-4,6-dinitrotoluene	40	41.982	105	
3,4-Dinitrotoluene	20	19.603	98	
4-Amino-2,6-dinitrotoluene	40	41.07	103	
HMX	40	46.731	117	
Nitrobenzene	40	39.137	98	
PETN	40	43.189	108	
RDX	40	43.979	110	
Tetryl	40	44.65	112	
m-Dinitrobenzene	40	42.729	107	
m-Nitrotoluene	40	44.799	112	
o-Nitrotoluene	40	42.092	105	
p-Nitrotoluene	40	44.279	111	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 23 of 99

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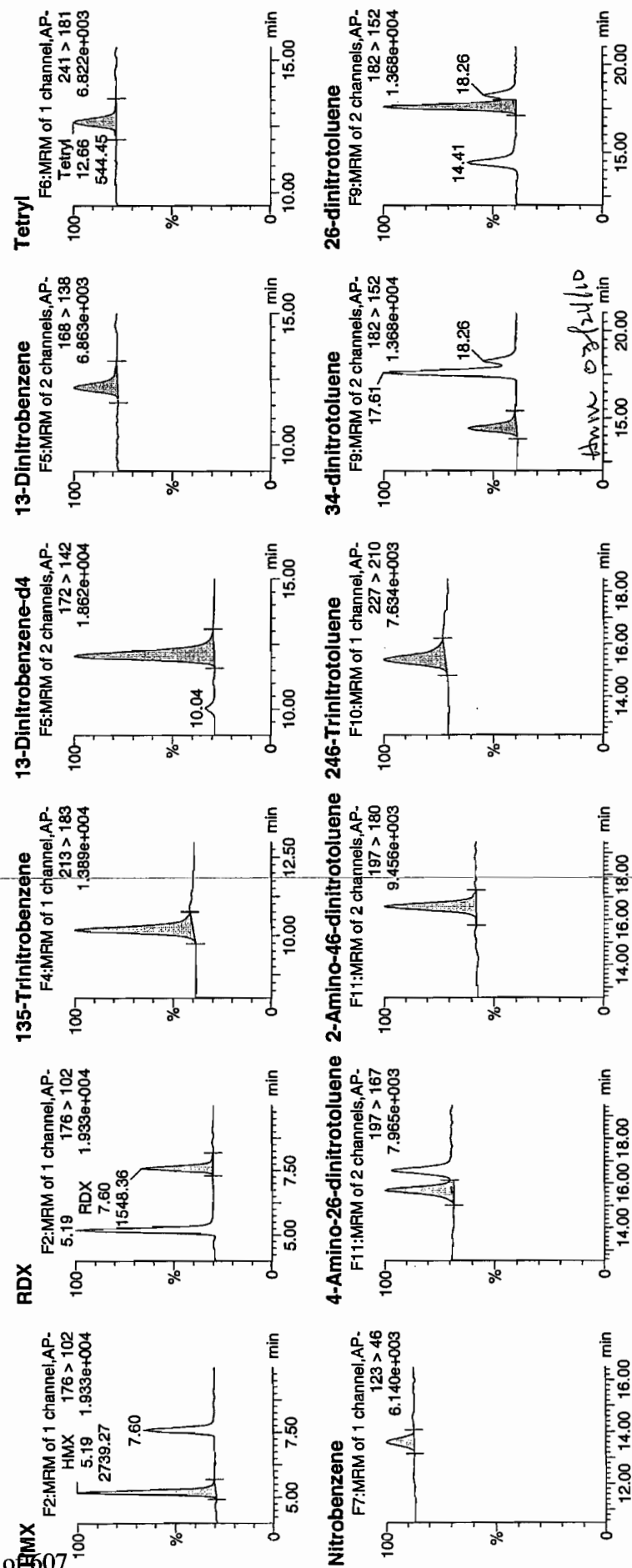
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Time: 14:33:19

ID: WXX100323-08CRI

Vial: 1:1,C

11/27
3/24/10

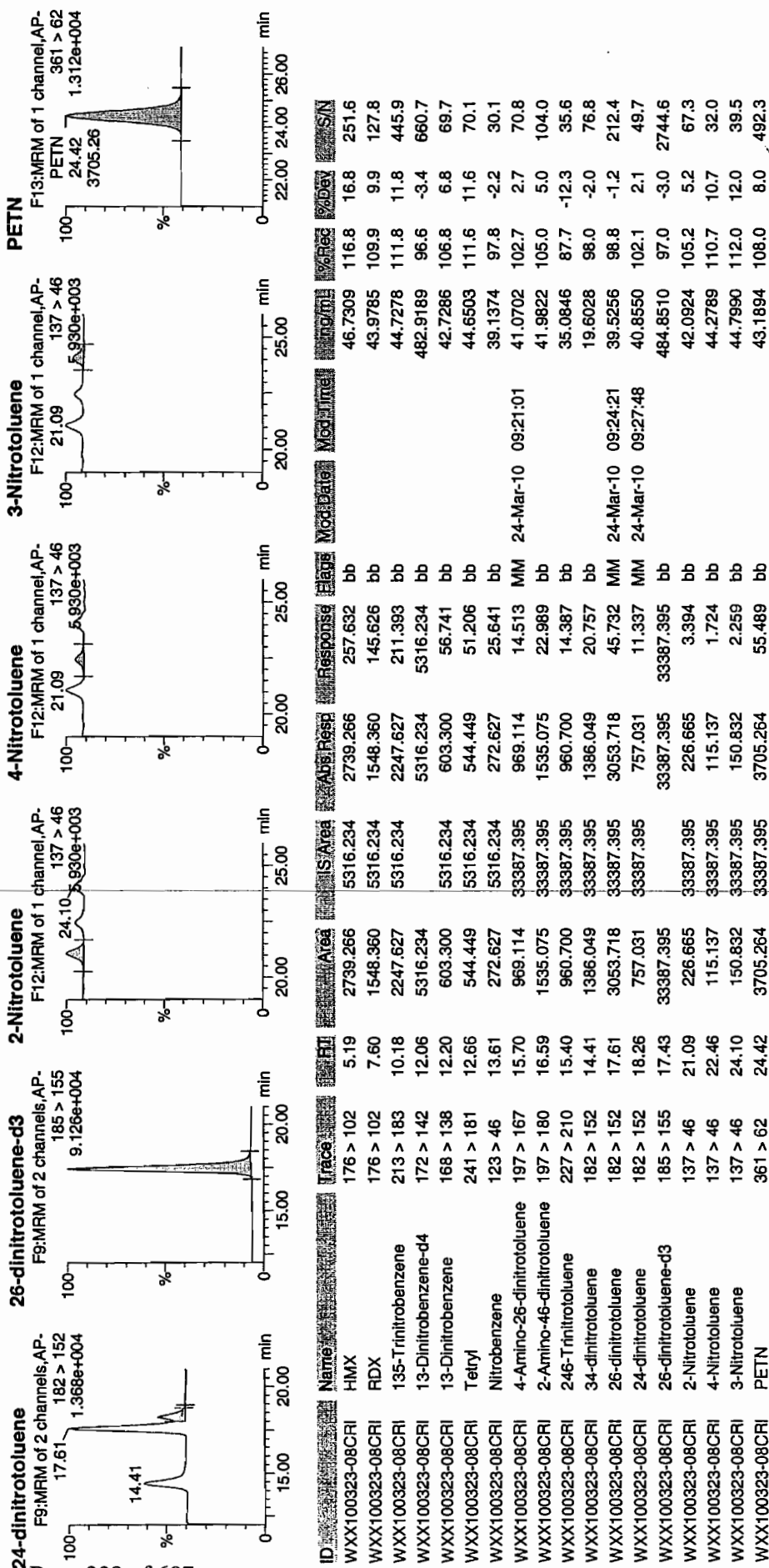


Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Mar 24 09:32:17 2010, Page 24 of 99

Dataset: C:\MASSLYNX\New_Exp_PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010



GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 1433
 Standard Number WXX100323-08CRI
 Data File EXP0323012a

HMX	116.8
RDX	109.9
135-TNB	111.8
13-DNB	106.8
Tetryl	111.6
Nitrobenzene	97.8
4A-26-DNT	102.7
2A-46-DNT	105.0
246-TNT	87.7
34-DNT(surr)	98.0
26-DNT	98.8
24-DNT	102.1
2-NT	105.2
4-NT	110.7
3-NT	112.0
PETN	108.0

not
3/24/10

Total 1684.9

Average 105.3

ANALYSIS 3/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0323023a

Analysis Date: 23-MAR-10 19:57

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	600	766.934	128	*
Tetryl	600	703.31	117	
m-Dinitrobenzene	600	619.864	103	
m-Nitrotoluene	600	587.224	98	
o-Nitrotoluene	600	612.723	102	
p-Nitrotoluene	600	652.819	109	
1,3,5-Trinitrobenzene	600	618.225	103	
1,3-Dinitrobenzene-d4	500	527.566	106	
2,4,6-Trinitrotoluene	600	626.233	104	
2,4-Dinitrotoluene	600	641.728	107	
2,6-Dinitrotoluene	600	622.086	104	
2,6-Dinitrotoluene-d3	500	516.532	103	
2-Amino-4,6-dinitrotoluene	600	682.18	114	
3,4-Dinitrotoluene	300	318.667	106	
4-Amino-2,6-dinitrotoluene	600	638.616	106	
HMX	600	775.75	129	*
Nitrobenzene	600	605.281	101	
PETN	600	636.192	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

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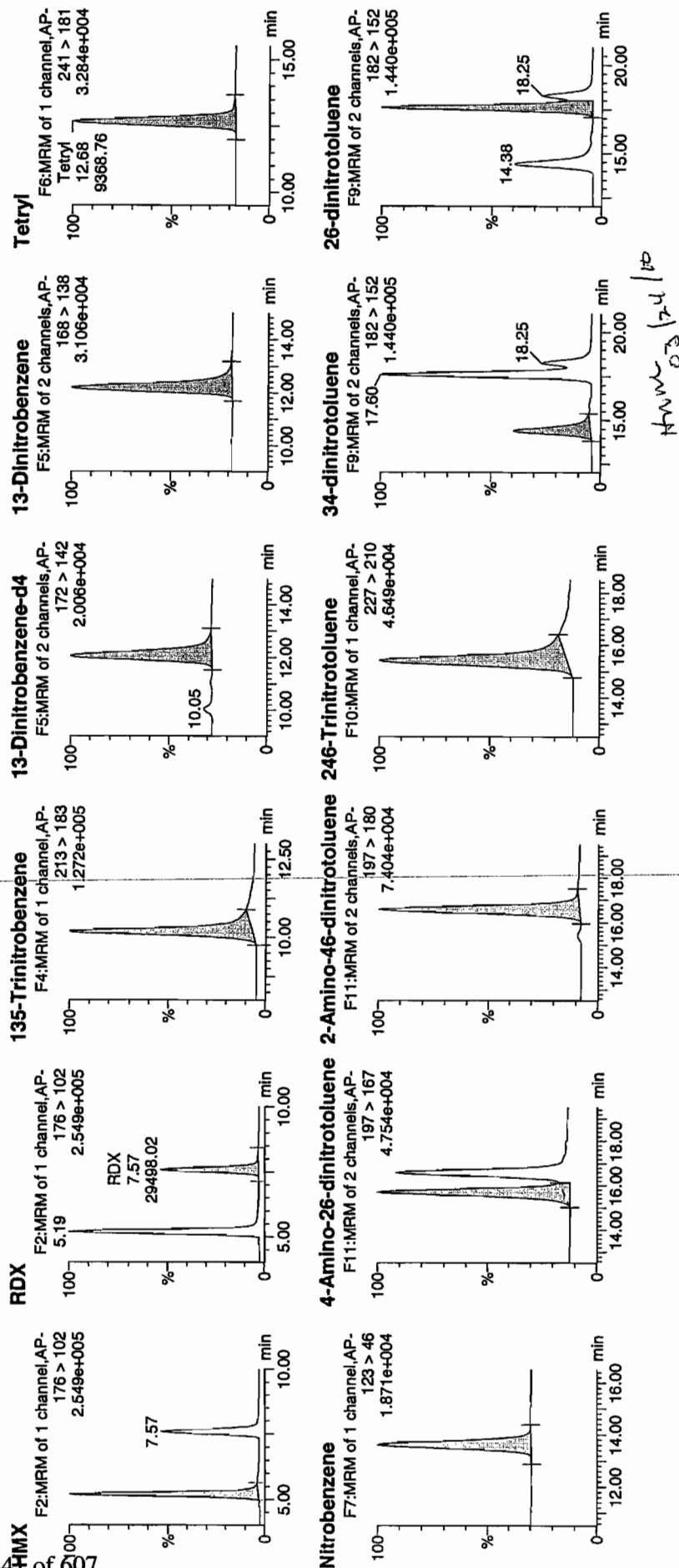
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Time: 19:57:38

ID: WXX100323-07CCV

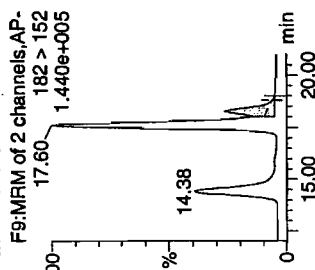
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34 of 607

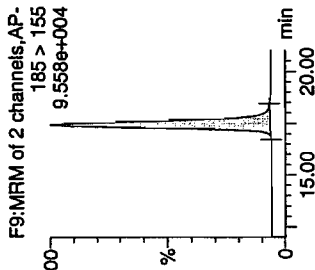


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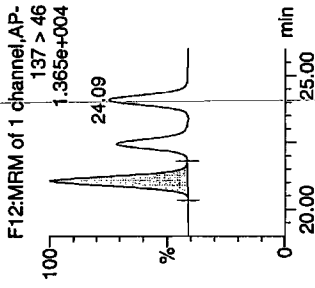
24-dinitrotoluene



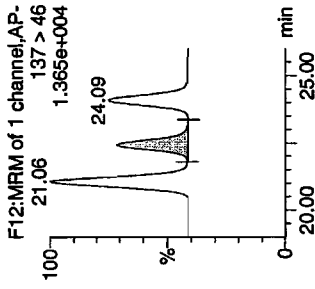
26-dinitrotoluene-d3



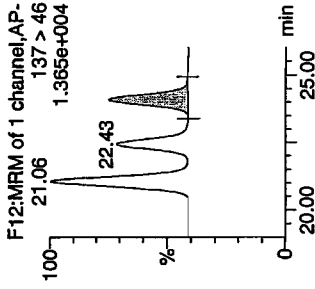
2-Nitrotoluene



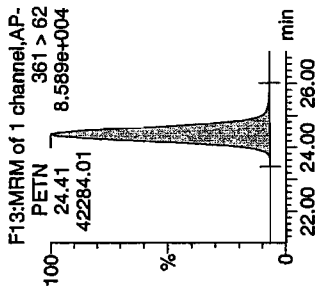
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Yd/M	%Rec	%Dev	SN
WX100323-07CCV	MX	176 > 102	5.19	49676.969	5807.738	49676.969	4276.791	bb			775.7499	129.3	29.3	1471.7
WX100323-07CCV	RDX	176 > 102	7.57	29498.021	5807.738	29498.021	2539.545	bb			786.9342	127.8	27.8	773.2
WX100323-07CCV	135-Trinitrobenzene	213 > 183	10.18	33938.762	5807.738	33938.762	2921.857	bb			618.2251	103.0	3.0	363.0
WX100323-07CCV	13-Dinitrobenzene-d4	172 > 142	12.07	5807.738		5807.738	5807.738	bb			527.5664	105.5	5.5	530.1
WX100323-07CCV	13-Dinitrobenzene	168 > 138	12.20	9561.233	5807.738	9561.233	823.146	bb			619.8643	103.3	3.3	1122.1
WX100323-07CCV	Tetryl	241 > 181	12.68	9368.761	5807.738	9368.761	806.576	bb			703.3099	117.2	17.2	808.1
WX100323-07CCV	Nitrobenzene	123 > 46	13.58	4606.136	5807.738	4606.136	396.552	bb			605.2814	100.9	0.9	436.9
WX100323-07CCV	4-Amino-26-dinitrotoluene	197 > 167	15.68	16053.771	35568.965	16053.771	225.671	MM	24-Mar-10	09:21:43	638.6162	106.4	6.4	555.1
WX100323-07CCV	2-Amino-46-dinitrotoluene	197 > 180	16.58	26573.668	35568.965	26573.668	373.551	bb			682.1795	113.7	13.7	1083.3
WX100323-07CCV	246-Trinitrotoluene	227 > 210	15.41	18268.205	35568.965	18268.205	256.800	bb			626.2328	104.4	4.4	1903.4
WX100323-07CCV	34-dinitrotoluene	182 > 152	14.38	24004.193	35568.965	24004.193	337.432	bb			318.6675	106.2	6.2	745.6
WX100323-07CCV	26-dinitrotoluene	182 > 152	17.60	51202.254	35568.965	51202.254	719.760	MM	24-Mar-10	09:24:58	622.0857	103.7	3.7	2050.7
WX100323-07CCV	24-dinitrotoluene	182 > 152	18.25	12667.966	35568.965	12667.966	178.077	MM	24-Mar-10	09:28:37	641.7283	107.0	7.0	461.8
WX100323-07CCV	26-dinitrotoluene-d3	185 > 155	17.42	35568.965		35568.965	35568.965	bb			516.5317	103.3	3.3	2935.3
WX100323-07CCV	2-Nitrotoluene	137 > 46	21.06	3515.065	35568.965	3515.065	49.412	bb			612.7229	102.1	2.1	589.1
WX100323-07CCV	4-Nitrotoluene	137 > 46	22.43	1808.423	35568.965	1808.423	25.421	bb			652.8194	108.8	8.8	299.5
WX100323-07CCV	3-Nitrotoluene	137 > 46	24.09	2106.291	35568.965	2106.291	29.609	bb			537.2244	97.9	-2.1	335.3
WX100323-07CCV	PETN	361 > 62	24.41	42284.008	35568.965	42284.008	594.395	bb			636.1919	106.0	6.0	11544.8

GRAND MEAN AVERAGE

Vendor: Restek
 Date of Analysis: 03/23/10
 Time of Injection: 1957
 Standard Number: WXX100323-07CCV
 Data File: EXP0323023a

HMX	129.3
RDX	127.8
135-TNB	103.0
13-DNB	103.3
Tetryl	117.2
Nitrobenzene	100.9
4A-26-DNT	106.4
2A-46-DNT	113.7
246-TNT	104.4
34-DNT(surr)	106.2
26-DNT	103.7
24-DNT	107.0
2-NT	102.1
4-NT	108.8
3-NT	97.9
PETN	106.0

Handwritten: 3/24/10

Total 1737.7

Average 108.6

Handwritten: HMM 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0323025a

Analysis Date: 23-MAR-10 20:56

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	40	35.345	88	
3,4-Dinitrotoluene	20	18.965	95	
4-Amino-2,6-dinitrotoluene	40	37.682	94	
HMX	40	43.341	108	
Nitrobenzene	40	37.897	95	
PETN	40	34.251	86	
RDX	40	42.597	106	
Tetryl	40	36.872	92	
m-Dinitrobenzene	40	41.891	105	
m-Nitrotoluene	40	39.158	98	
o-Nitrotoluene	40	44.793	112	
p-Nitrotoluene	40	35.3	88	
1,3,5-Trinitrobenzene	40	43.551	109	
1,3-Dinitrobenzene-d4	500	578.273	116	
2,4,6-Trinitrotoluene	40	36.796	92	
2,4-Dinitrotoluene	40	36.274	91	
2,6-Dinitrotoluene	40	39.059	98	
2,6-Dinitrotoluene-d3	500	625.064	125	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Dataset: C:\MASSLYN\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

Name: C:\MASSLYN\NEW_EXP.PRO\Data\EXP0323025a

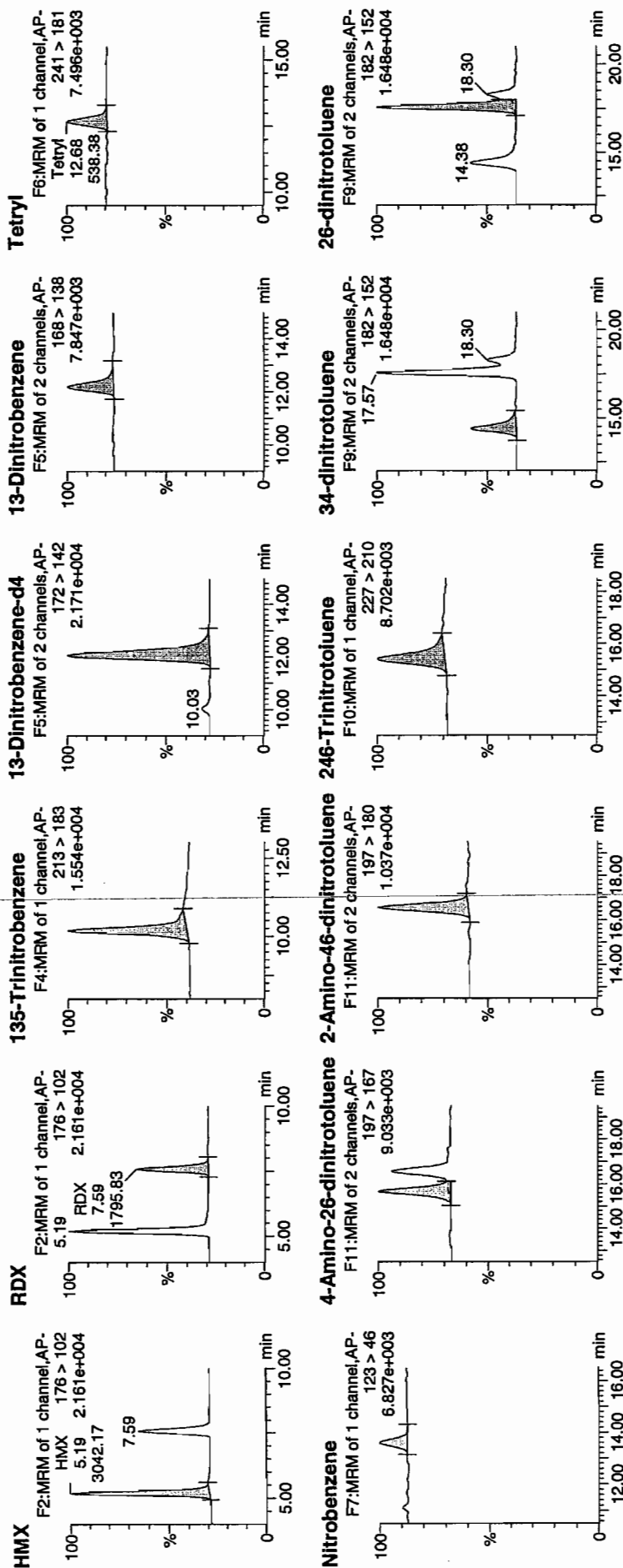
Date: 23-Mar-2010

Time: 20:56:42

ID: WXX100323-08CRI

Vial: 1:1,C

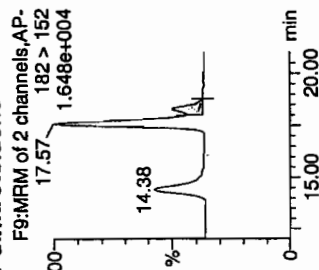
with
3/24/10



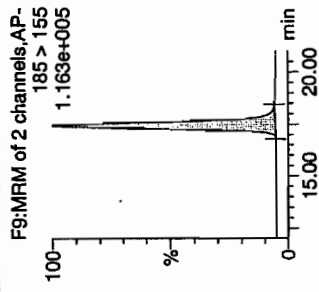
with
03/24/10

Dataset: C:\MASSLYNX\New_Exp.PRO\032310expA.qld, Time: Wed Mar 24 09:29:41 2010

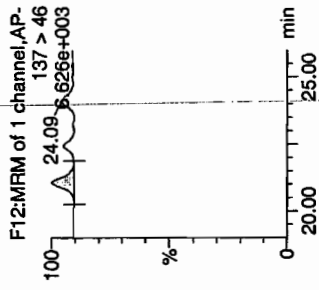
24-dinitrotoluene



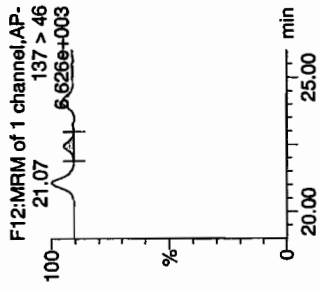
26-dinitrotoluene-d3



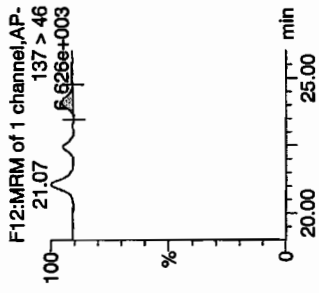
2-Nitrotoluene



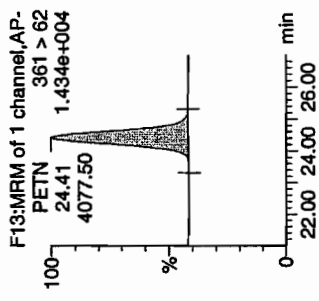
4-Nitrotoluene



3-Nitrotoluene



PETN



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int/ML	% Rec	% Dev	SN
WXX100323-08CRI	HMX	176 > 102	5.19	3042.172	6365.946	3042.172	238.941	bb			43.3406	108.4	8.4	237.9
WXX100323-08CRI	RDX	176 > 102	7.59	1795.832	6365.946	1795.832	141.050	bb			42.5966	106.5	6.5	121.7
WXX100323-08CRI	135-Trinitrobenzene	213 > 183	10.18	2620.612	6365.946	2620.612	205.831	bb			43.5509	108.9	8.9	183.8
WXX100323-08CRI	13-Dinitrobenzene-d4	172 > 142	12.07	6365.946	6365.946	6365.946	6365.946	bb			578.2732	115.7	15.7	466.5
WXX100323-08CRI	13-Dinitrobenzene	168 > 138	12.20	708.269	6365.946	708.269	55.630	bb			41.8914	104.7	4.7	72.5
WXX100323-08CRI	Tetryl	241 > 181	12.68	538.375	6365.946	538.375	42.286	bb			36.8717	92.2	-7.8	60.2
WXX100323-08CRI	Nitrobenzene	123 > 46	13.58	316.111	6365.946	316.111	24.828	bb			37.8969	94.7	-5.3	11.9
WXX100323-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.68	1146.295	43042.656	1146.295	13.316	MM	24-Mar-10	09:21:55	37.6818	94.2	-5.8	48.6
WXX100323-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.58	1666.137	43042.656	1666.137	19.354	bb			35.3452	88.4	-11.6	109.1
WXX100323-08CRI	246-Trinitrotoluene	227 > 210	15.41	1298.920	43042.656	1298.920	15.089	bb			36.7955	92.0	-8.0	71.0
WXX100323-08CRI	34-dinitrotoluene	182 > 152	14.38	1728.770	43042.656	1728.770	20.082	bb			18.9653	94.8	-5.2	115.8
WXX100323-08CRI	26-dinitrotoluene	182 > 152	17.57	3890.302	43042.656	3890.302	45.191	MM	24-Mar-10	09:25:06	39.0586	97.6	-2.4	351.9
WXX100323-08CRI	24-dinitrotoluene	182 > 152	18.30	866.515	43042.656	866.515	10.066	MM	24-Mar-10	09:28:45	36.2737	90.7	-9.3	71.2
WXX100323-08CRI	26-dinitrotoluene-d3	185 > 155	17.42	43042.656	43042.656	43042.656	43042.656	bb			625.0645	125.0	25.0	3341.8
WXX100323-08CRI	2-Nitrotoluene	137 > 46	21.07	310.960	43042.656	310.960	3.612	bb			44.7927	112.0	12.0	12.3
WXX100323-08CRI	4-Nitrotoluene	137 > 46	22.45	118.335	43042.656	118.335	1.375	bb			35.3003	88.3	-11.7	5.7
WXX100323-08CRI	3-Nitrotoluene	137 > 46	24.09	169.964	43042.656	169.964	1.974	bb			39.1575	97.9	-2.1	6.4
WXX100323-08CRI	PETN	361 > 62	24.41	4077.497	43042.656	4077.497	47.366	bb			34.2508	85.6	-14.4	415.8

GRAND MEAN AVERAGE

Vendor: UltraScientific
 Date of Analysis 03/23/10
 Time of Injection 2056
 Standard Number WXX100323-08CRI
 Data File EXP0323025a

HMX	108.4
RDX	106.5
135-TNB	108.9
13-DNB	104.7
Tetryl	92.2
Nitrobenzene	94.7
4A-26-DNT	94.2
2A-46-DNT	88.4
246-TNT	92.0
34-DNT(surr)	94.8
26-DNT	97.6
24-DNT	90.7
2-NT	112.0
4-NT	88.3
3-NT	97.9
PETN	85.6

HPF
3/24/10

Total 1556.9

Average 97.3

HPM 03/24/10

ICV Limits 85-115%

CRI Limits 70-130%

CCV Limits 85-115%

No single analyte > +/- 60%

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160013.wiff

Analysis Date: 16-MAR-10 11:26

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	81.8	82	
2,6-Diamino-4-nitrotoluene	100	87.6	88	
3,4-Dinitrotoluene	50	46.1	92	
3,5-Dinitroaniline	100	92.4	92	
TATB	100	98.9	99	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 3/10/10

Sample Name: "WXX100316-27CR" Sample ID: "J1LER" File: "EXS03160013.wif"

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

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 9. ng/mL

Acq. Date: 3/16/2010

Acq. Time: 11:26:15 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 30.0 sec

Expected RT: 6.93 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.92 min

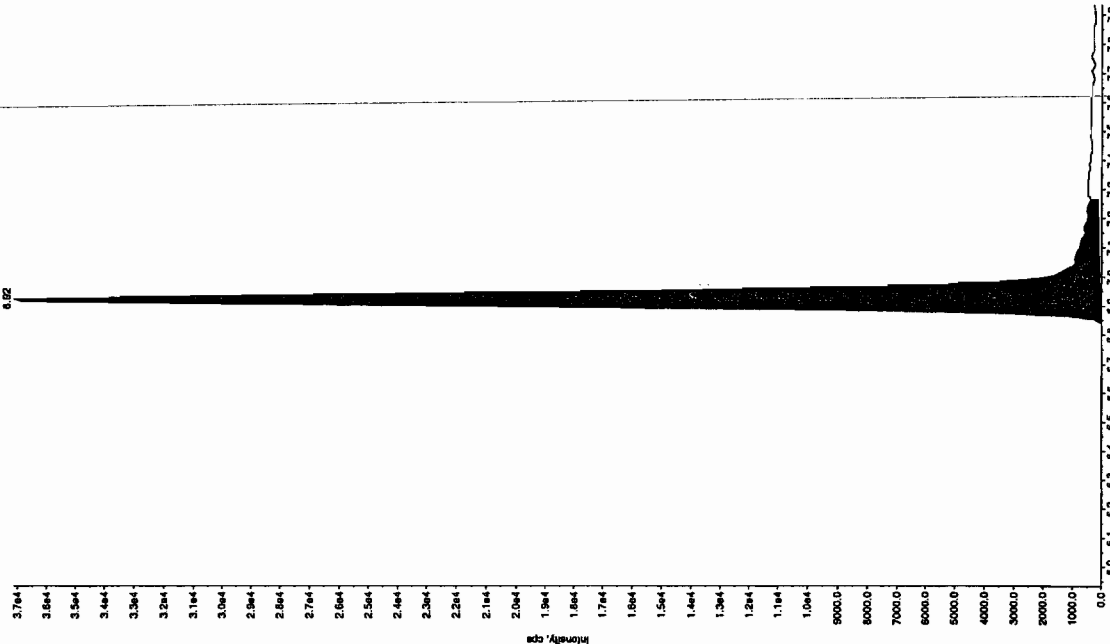
Area: 1.49e+005 counts

Height: 1.37091e31 cps

Start Time: 7.27 min

End Time: 7.27 min

6.92



Sample Name: "WXX100316-27CR" Sample ID: "J1LER" File: "EXS03160013.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460.0 amu"

Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 9. ng/mL

Acq. Date: 3/16/2010

Acq. Time: 11:26:15 AM

Modified: Yes

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: 8.12 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 8.16 min

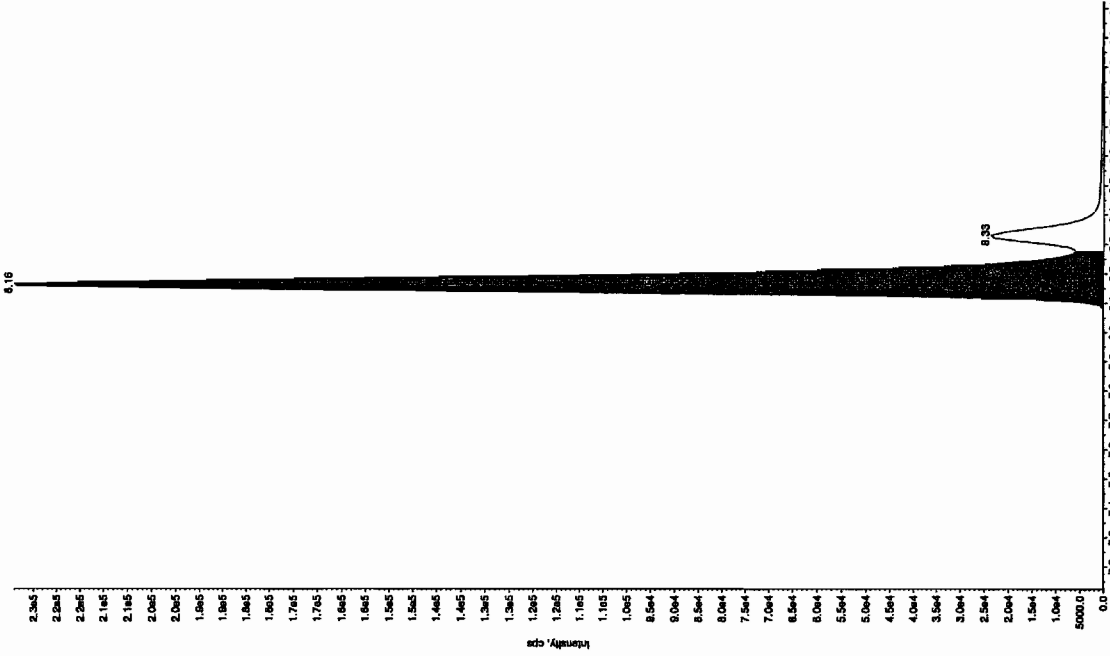
Area: 9.24e+005 counts

Height: 229011108 cps

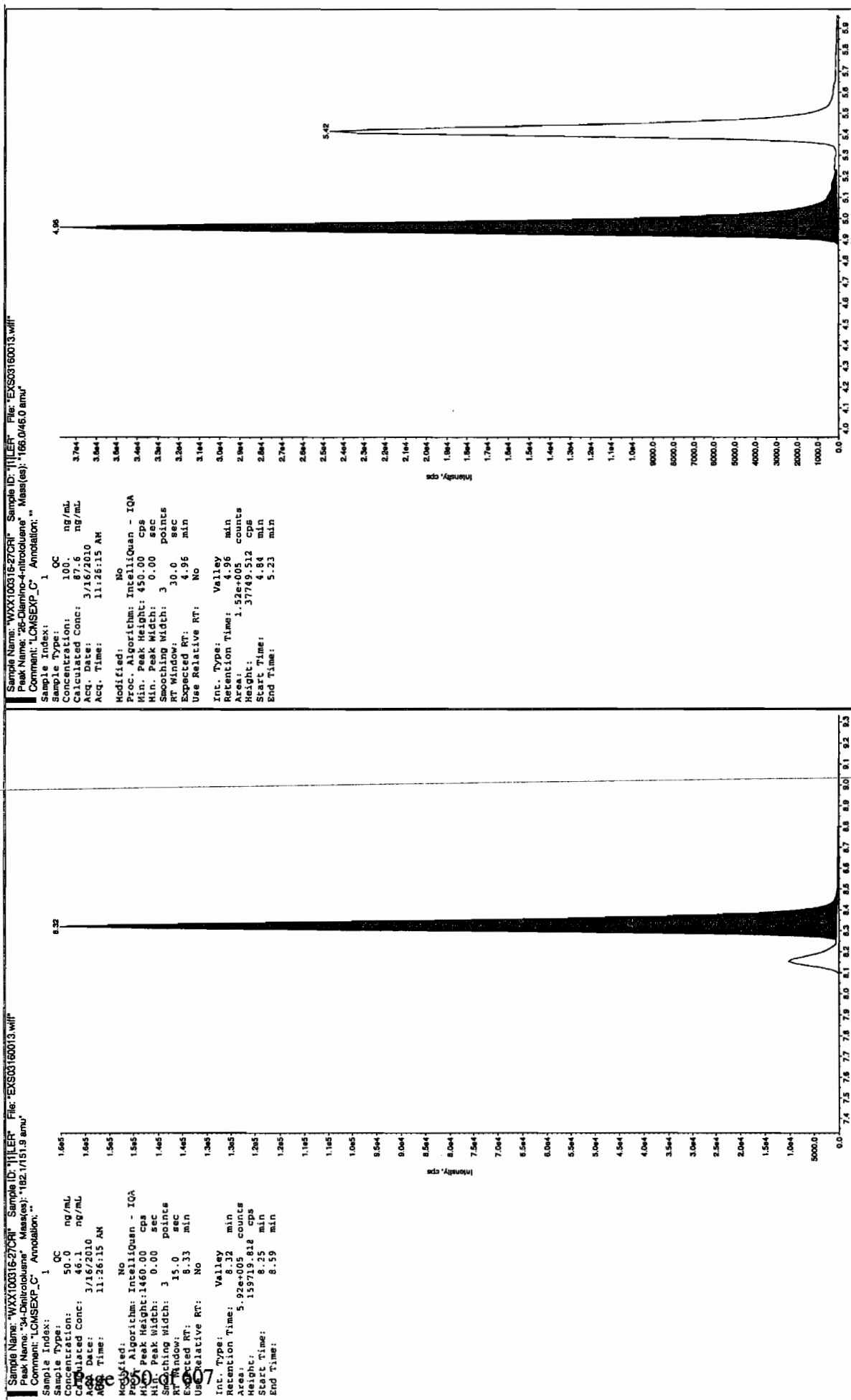
Start Time: 8.06 min

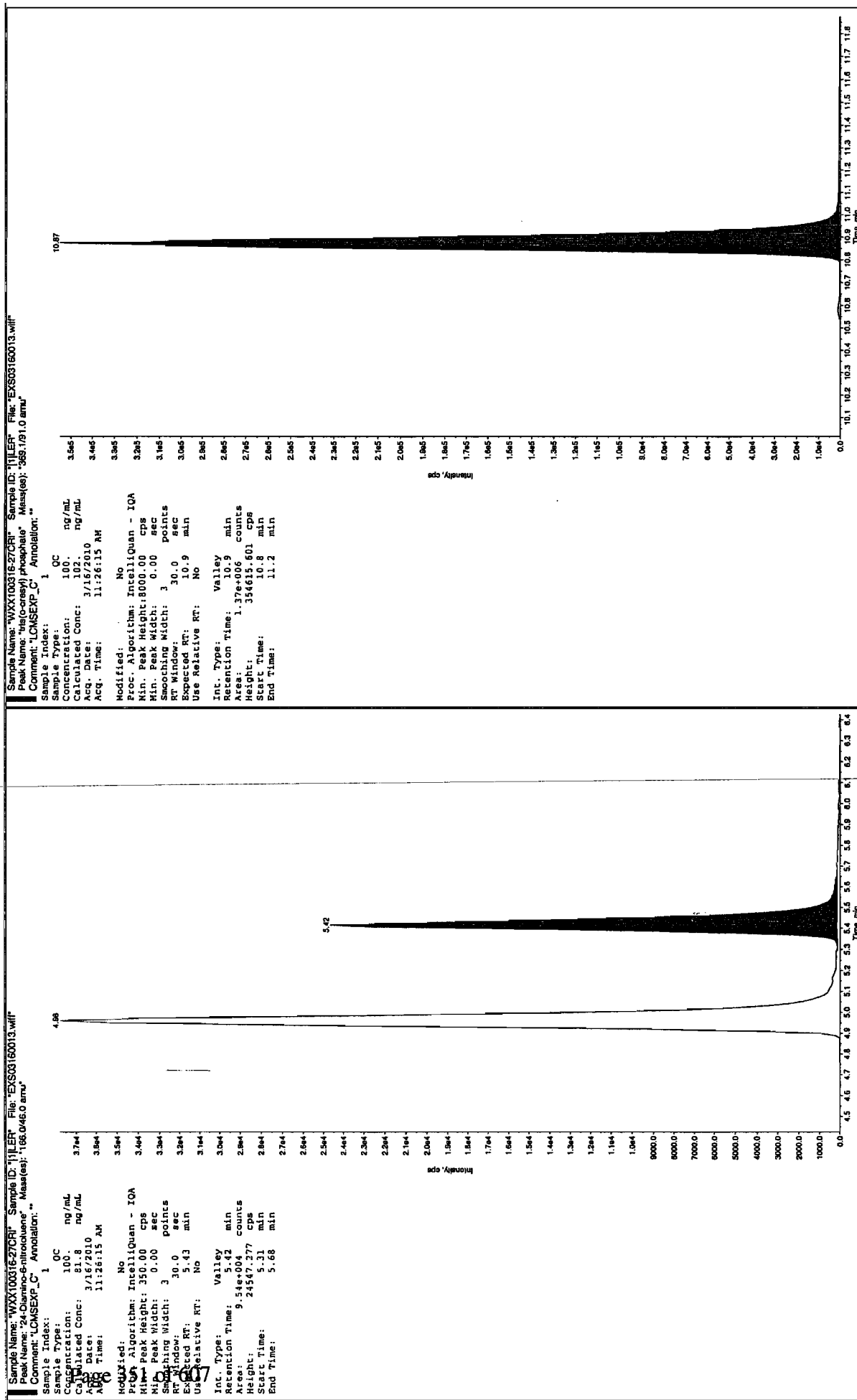
End Time: 8.28 min

6.16



4mm 03/16/10





7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03160024.wiff

Analysis Date: 16-MAR-10 14:18

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	446	89	
2,6-Diamino-4-nitrotoluene	500	441	88	
3,4-Dinitrotoluene	250	221	88	
3,5-Dinitroaniline	500	503	101	
TATB	500	499	100	
tris(o-cresyl) phosphate	500	487	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

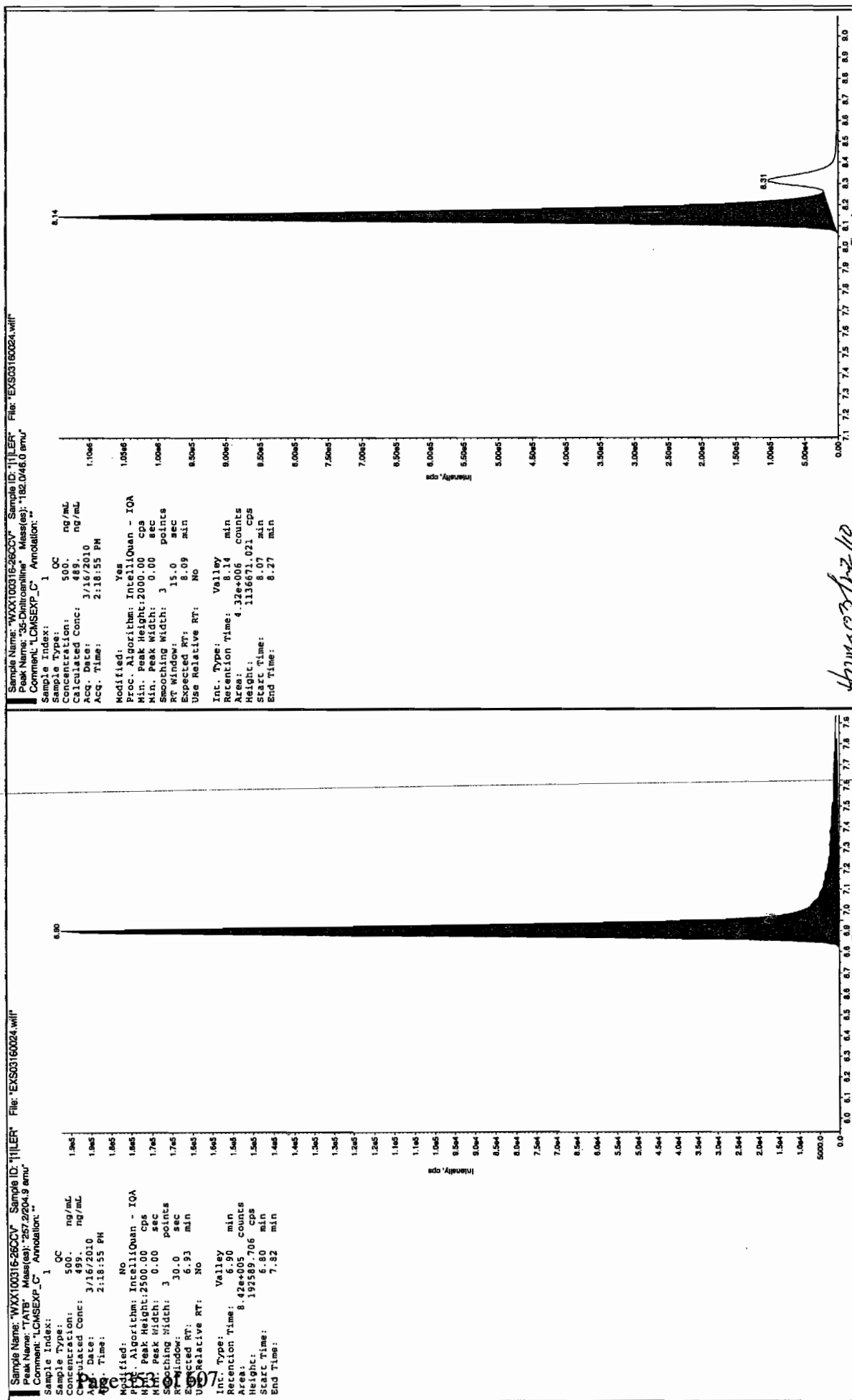
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 31/8/10

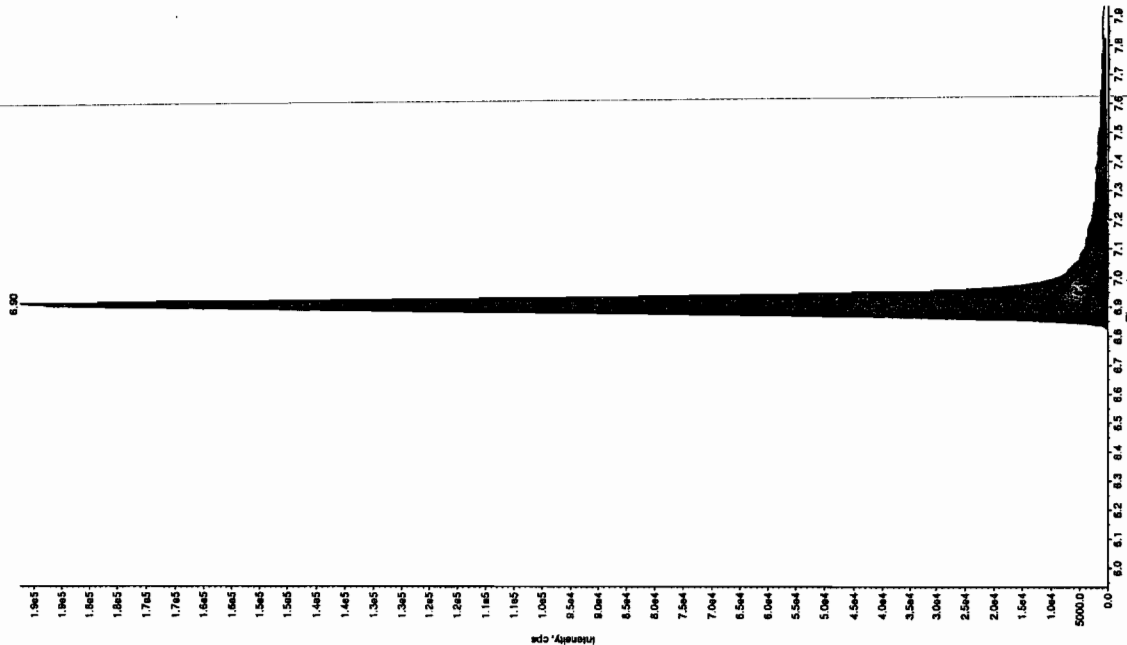


After 03/12/10

after Jan 3/18/10

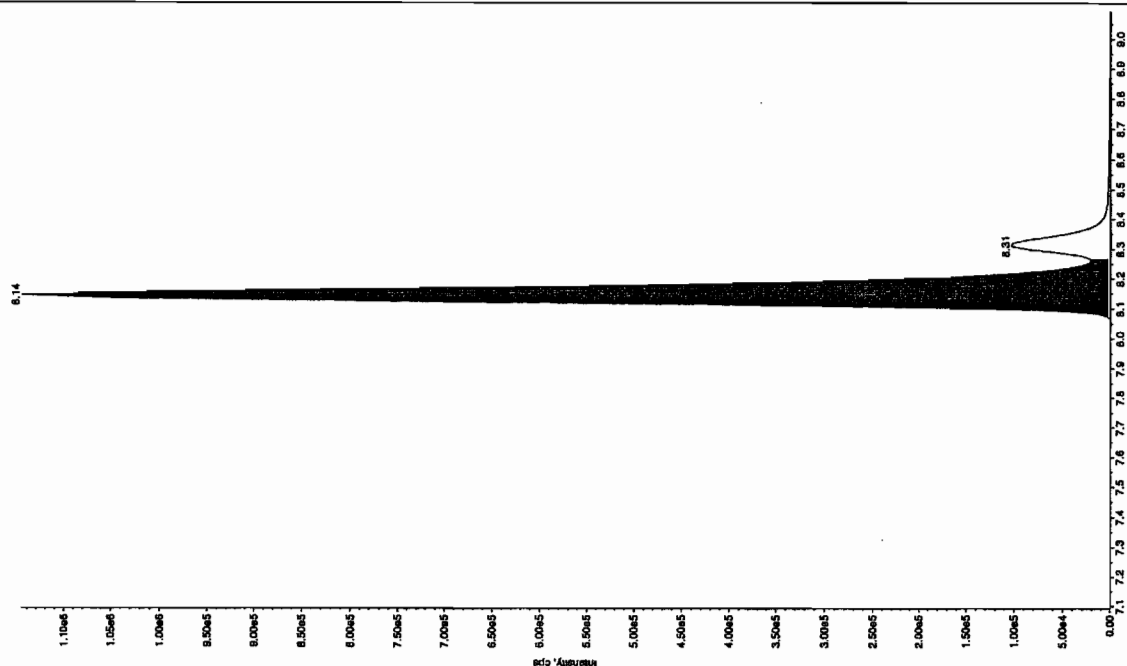
Sample Name: "WXX100316-2600V" Sample ID: "11LEF" File: "EXS03160024.wif"
 Peak Name: "TATB" Mass(es): "257.2204.9 amu"
 Comment: "LCMSEXP_C" Annotation: "

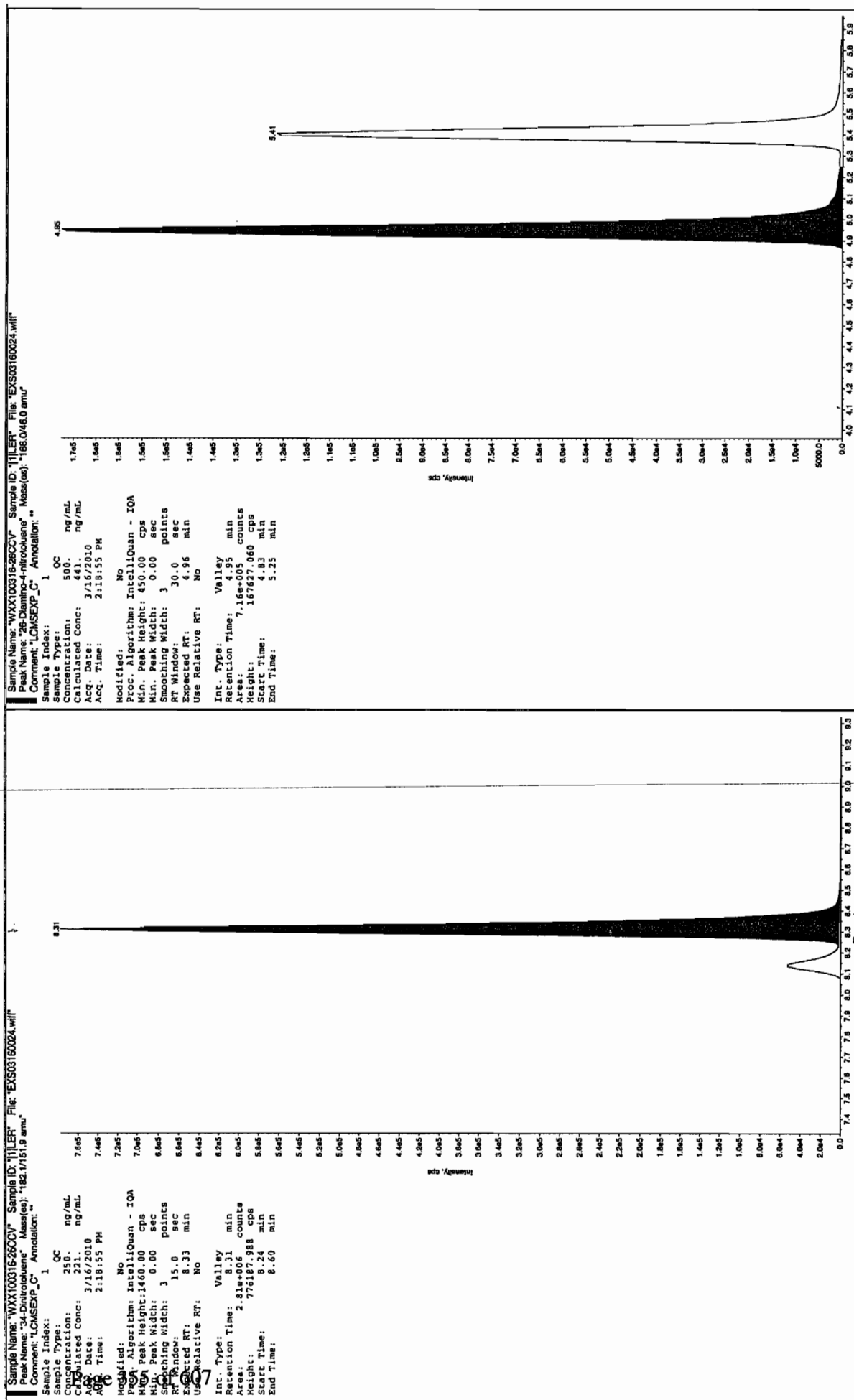
Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Expected Conc: 500 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 2:18:55 PM
 Modified: No
 Processing: IntelliQuan - IQA
 Min. Peak Height: 2500.00 cps
 Min. Peak Width: 0.00 sec
 Sampling Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 6.93 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.90 min
 Area: 8.42e+05 counts
 Height: 192580 cps
 Start Time: 6.80 min
 End Time: 7.82 min

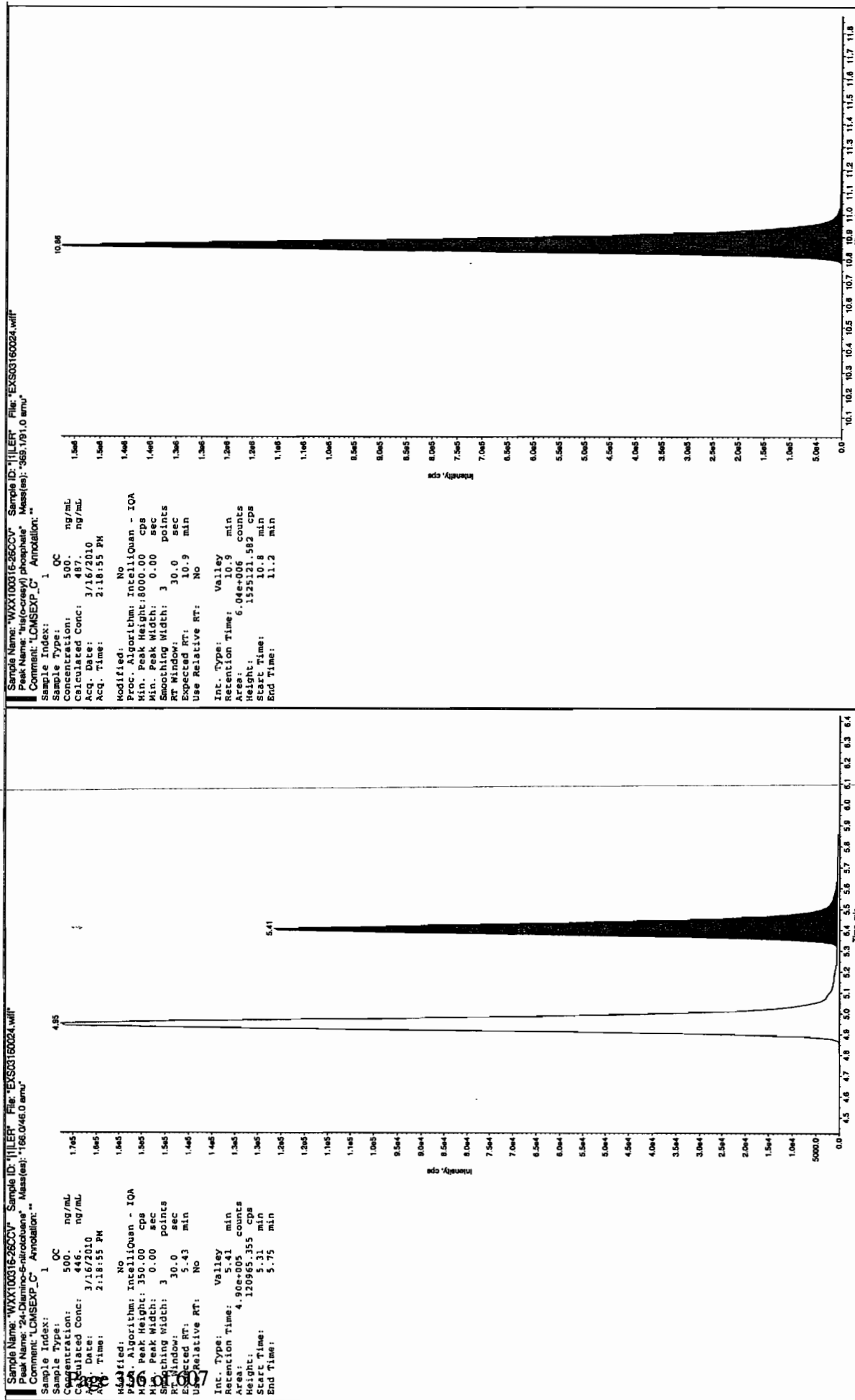


Sample Name: "WXX100316-2600V" Sample ID: "11LEF" File: "EXS03160024.wif"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: OC
 Concentration: 500 ng/mL
 Expected Conc: 500 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 2:18:55 PM
 Modified: Yes
 RT Window: 15.0 sec
 Expected RT: 8.09 min
 Use Relative RT: No
 Int. Type: Manual
 Retention Time: 8.14 min
 Area: 4.43e+006 counts
 Height: 1143650.593 cps
 Start Time: 8.07 min
 End Time: 8.27 min







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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03160026.wiff

Analysis Date: 16-MAR-10 14:50

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	87.3	87	
2,6-Diamino-4-nitrotoluene	100	83.1	83	
3,4-Dinitrotoluene	50	46.2	92	
3,5-Dinitroaniline	100	89.4	89	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	96.9	97	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Jan 31/8/10

Sample Name: "WXX100316-27CRL" Sample ID: "J1LER" File: "EX903160026.wif"

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

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: 100 ng/mL

Concentration: 100 ng/mL

Acq. Date: 3/18/2010

Acq. Time: 2:50:19 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: 6.93 min

Use Relative RT: No

Int. Type: Valley

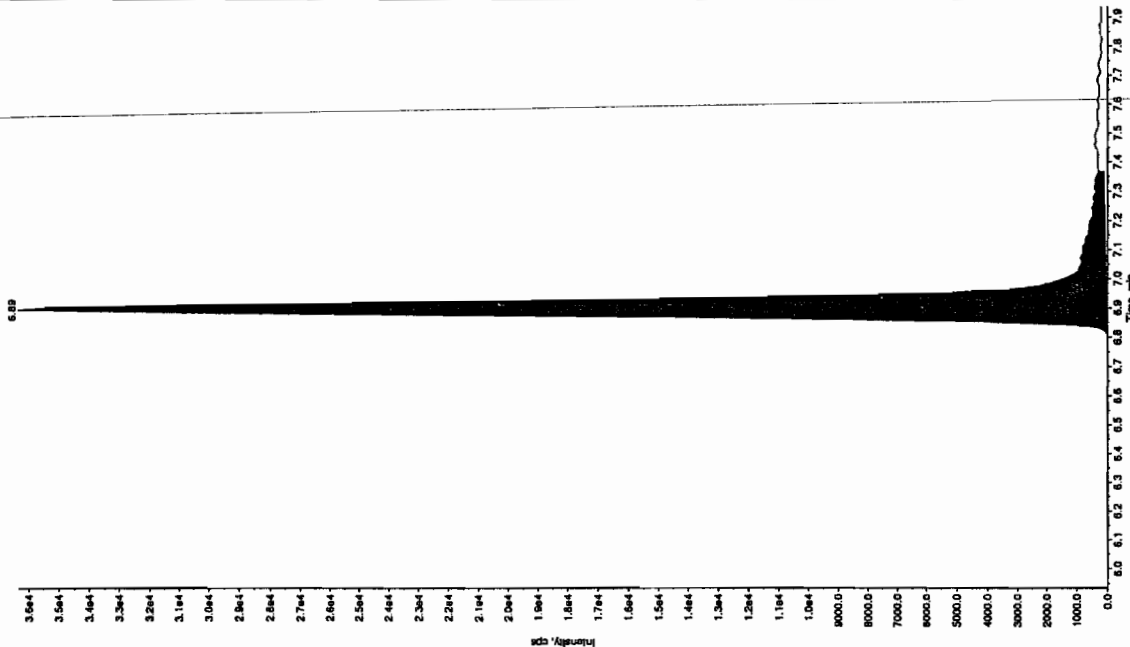
Retention Time: 6.89 min

Area: 1.51e+005 counts

Height: 36352.856 cps

Start Time: 6.78 min

End Time: 7.37 min



Sample Name: "WXX100316-27CRL" Sample ID: "J1LER" File: "EX903160026.wif"

Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMSEXP_C" Annotation: ""

Sample Index: 1

Sample Type: 100 ng/mL

Concentration: 100 ng/mL

Acq. Date: 3/18/2010

Acq. Time: 2:50:19 PM

Modified: Yes

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: 8.12 min

Use Relative RT: No

Int. Type: Valley

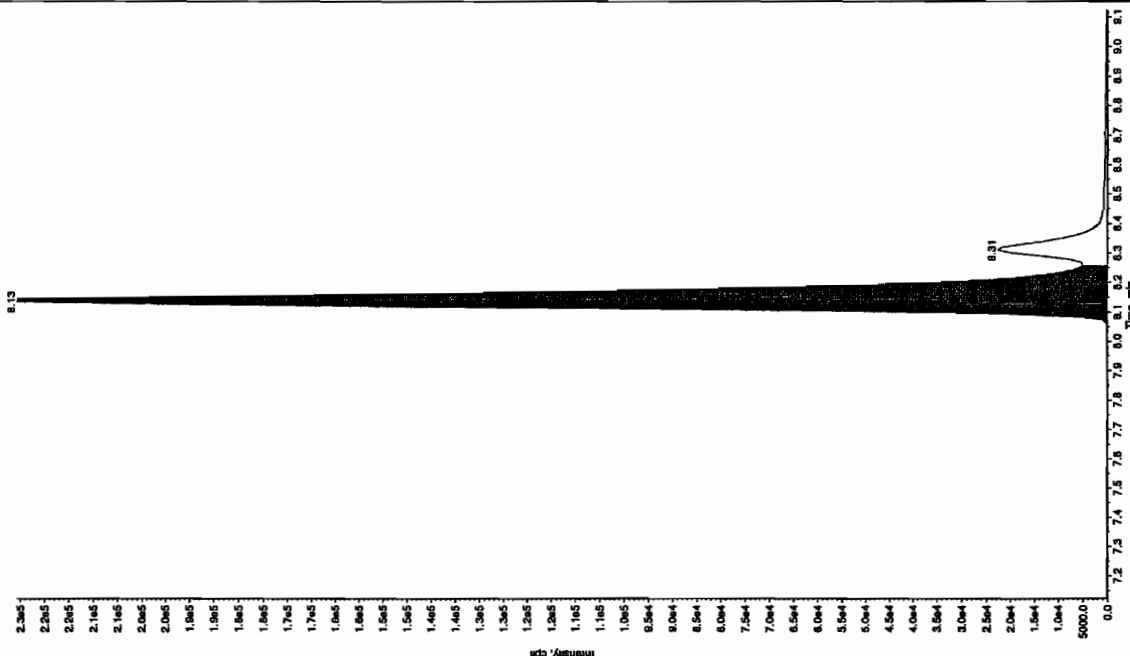
Retention Time: 8.13 min

Area: 8.97e+005 counts

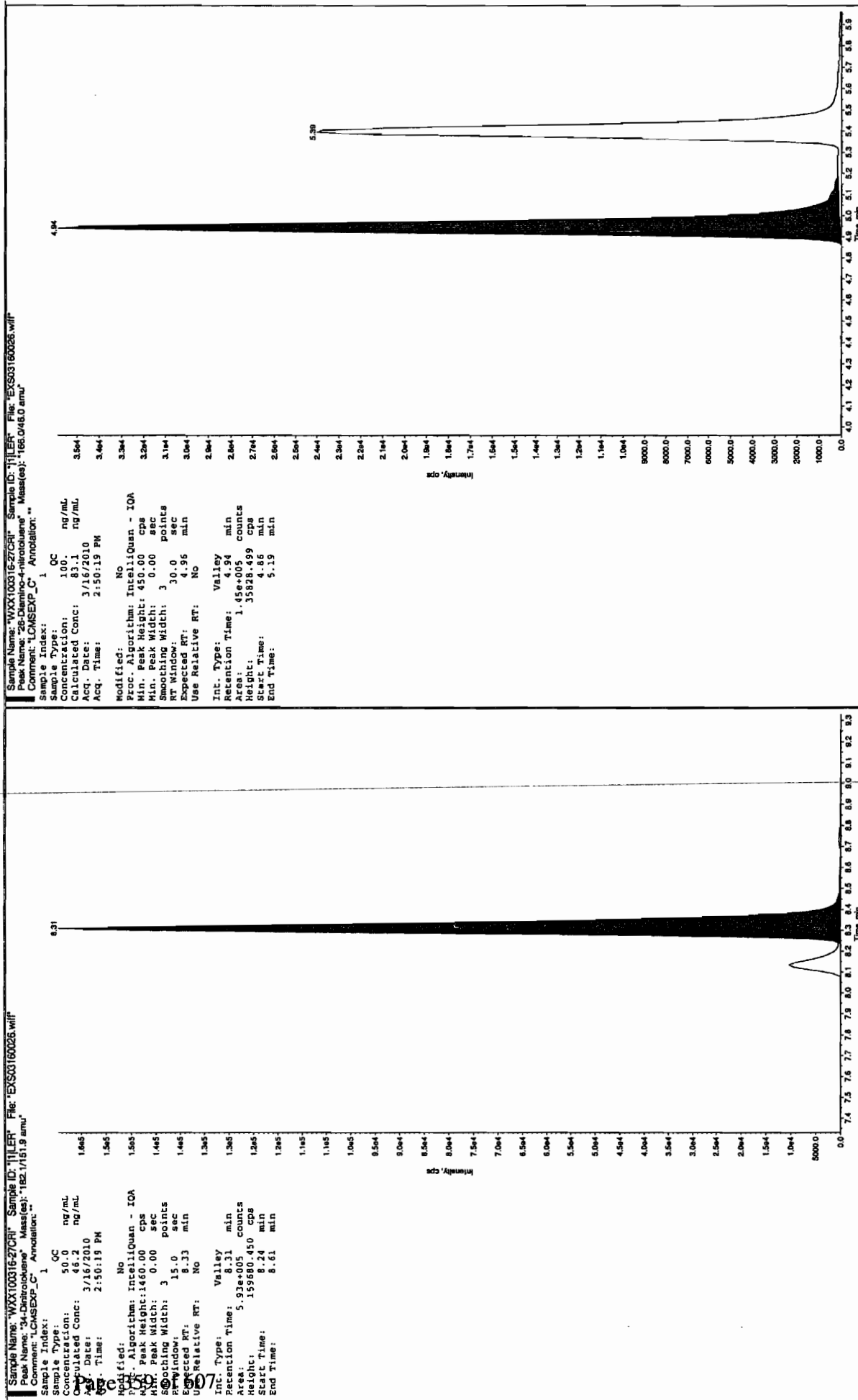
Height: 225874.927 cps

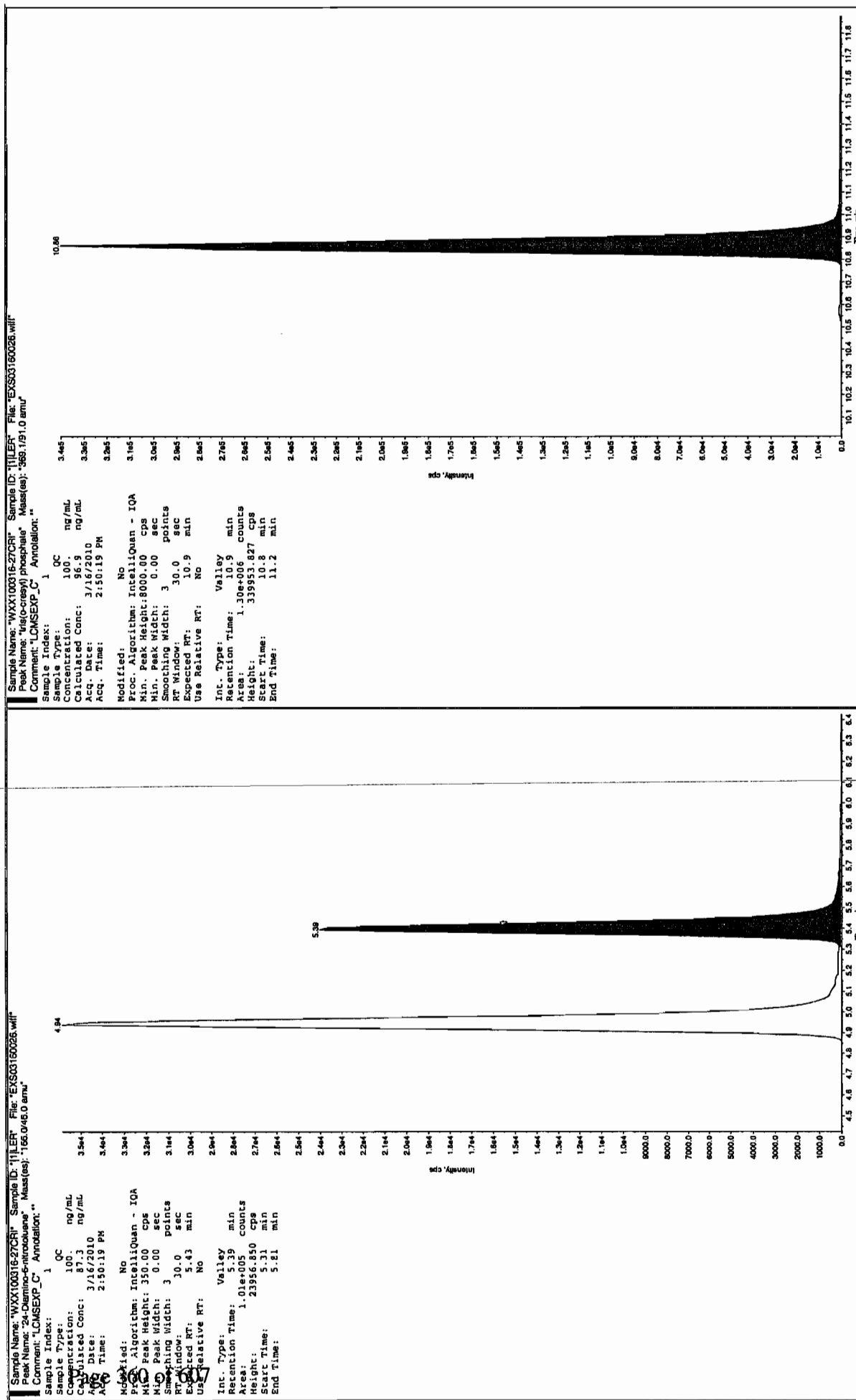
Start Time: 8.04 min

End Time: 8.26 min



Jan 31/8/10





7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03190013.wiff

Analysis Date: 19-MAR-10 09:39

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	92	92	
2,6-Diamino-4-nitrotoluene	100	89.4	89	
3,4-Dinitrotoluene	50	49.2	98	
3,5-Dinitroaniline	100	101	101	
TATB	100	100	100	
tris(o-cresyl) phosphate	100	103	103	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

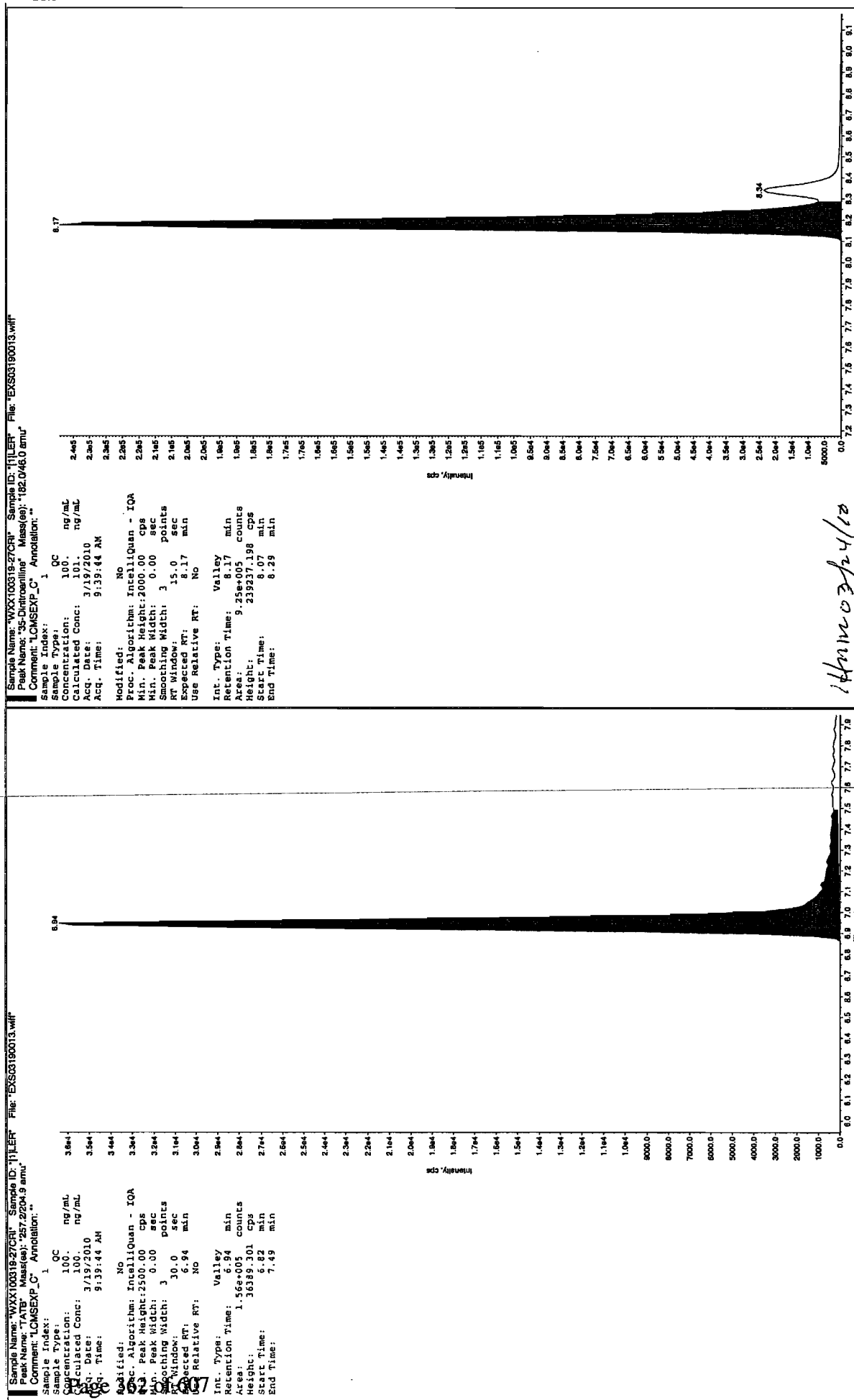
2,4-Diamino-6-nitrotoluene 50-150%

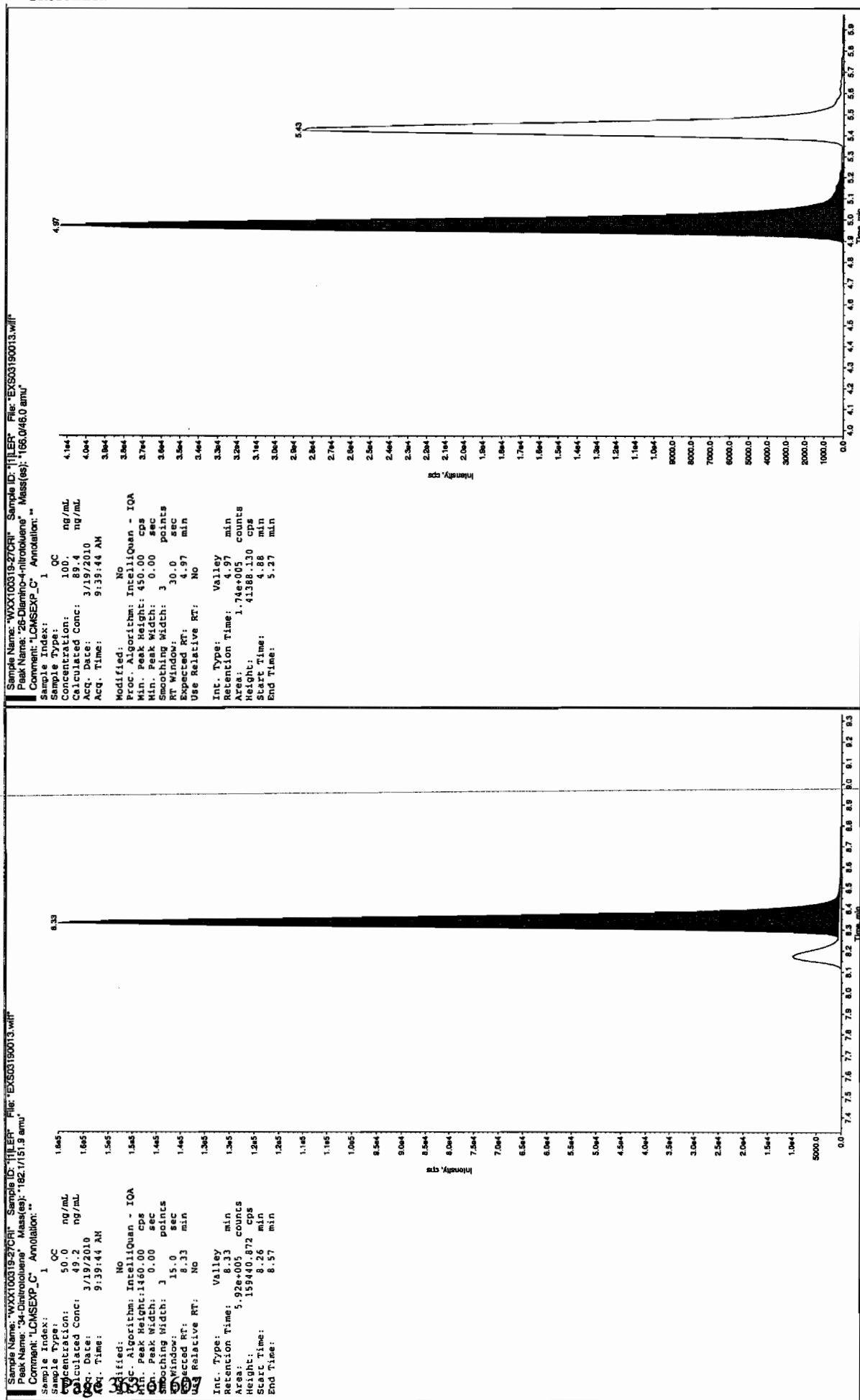
Other Target Analytes 70-130%

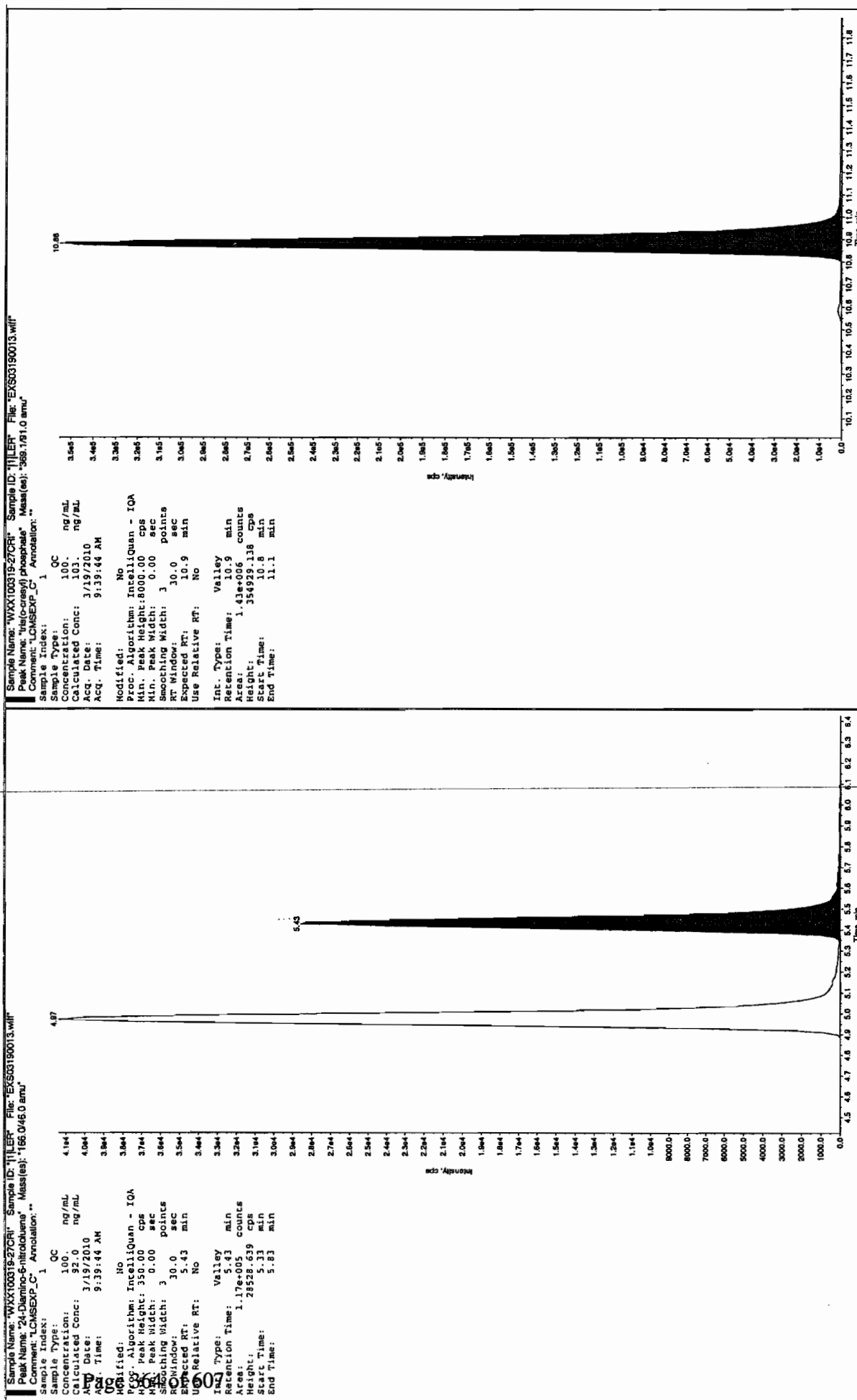
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Gar 3/23/10







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

7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03190024.wiff

Analysis Date: 19-MAR-10 12:32

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	507	101	
2,6-Diamino-4-nitrotoluene	500	470	94	
3,4-Dinitrotoluene	250	239	96	
3,5-Dinitroaniline	500	480	96	
TATB	500	470	94	
tris(o-cresyl) phosphate	500	499	100	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

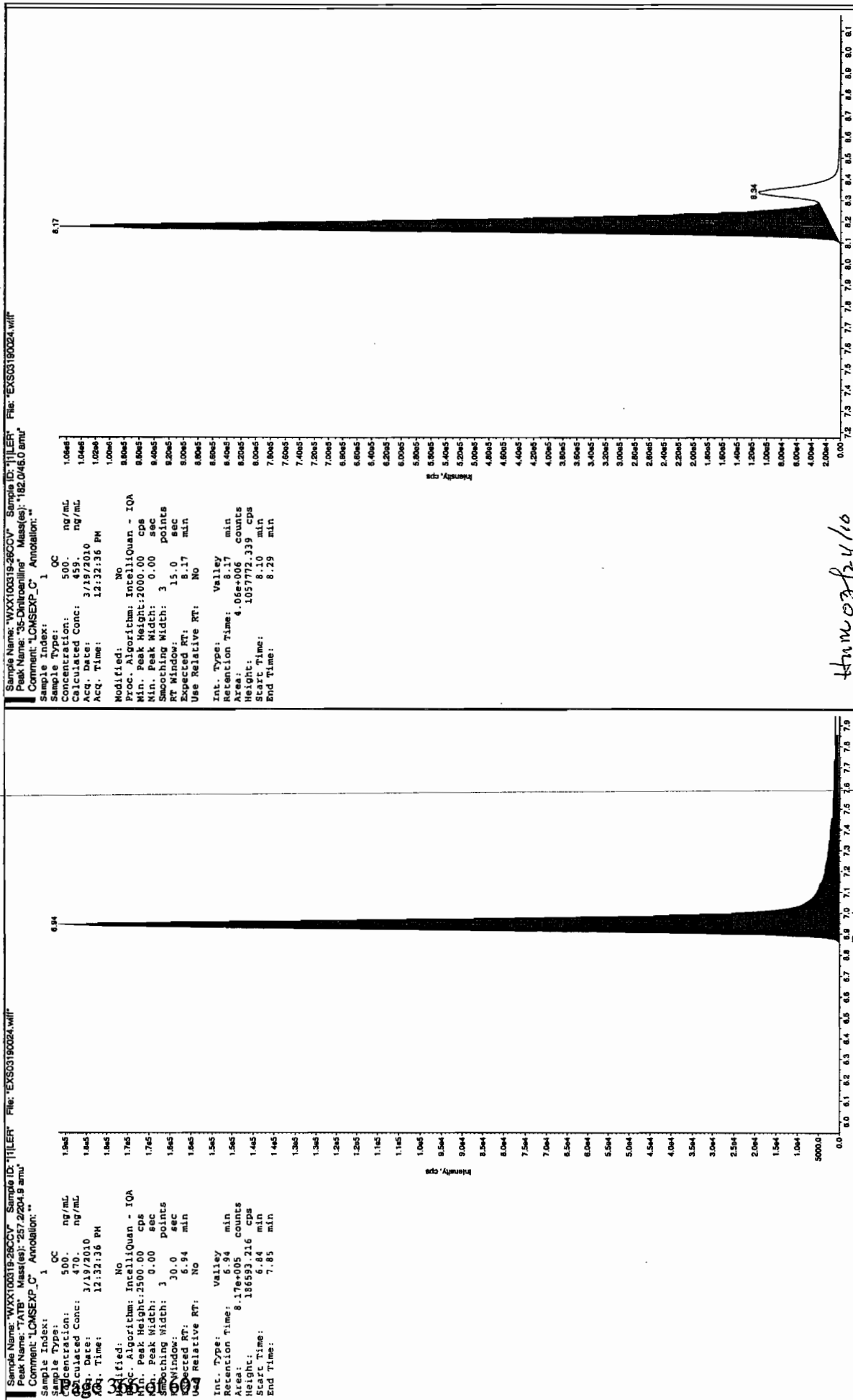
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

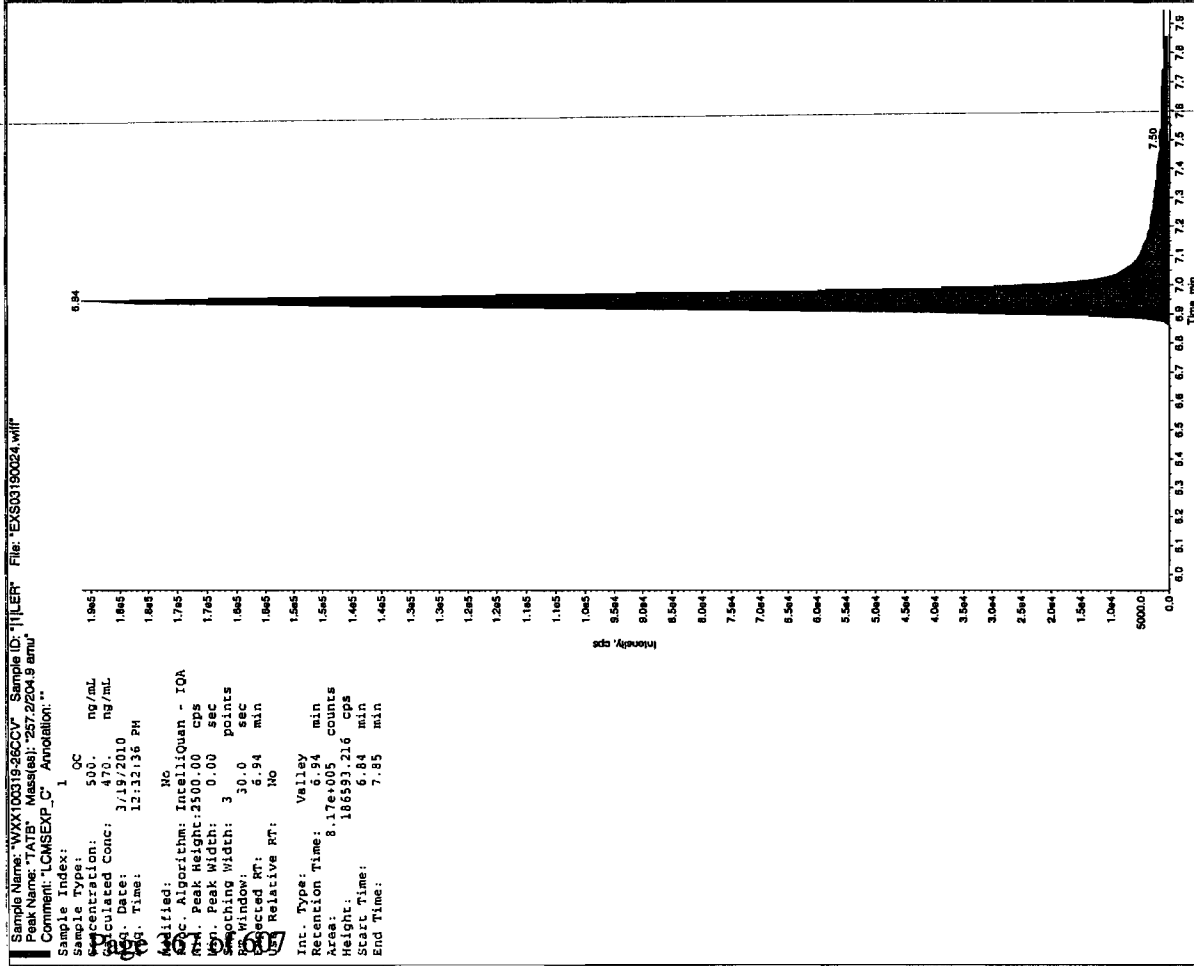
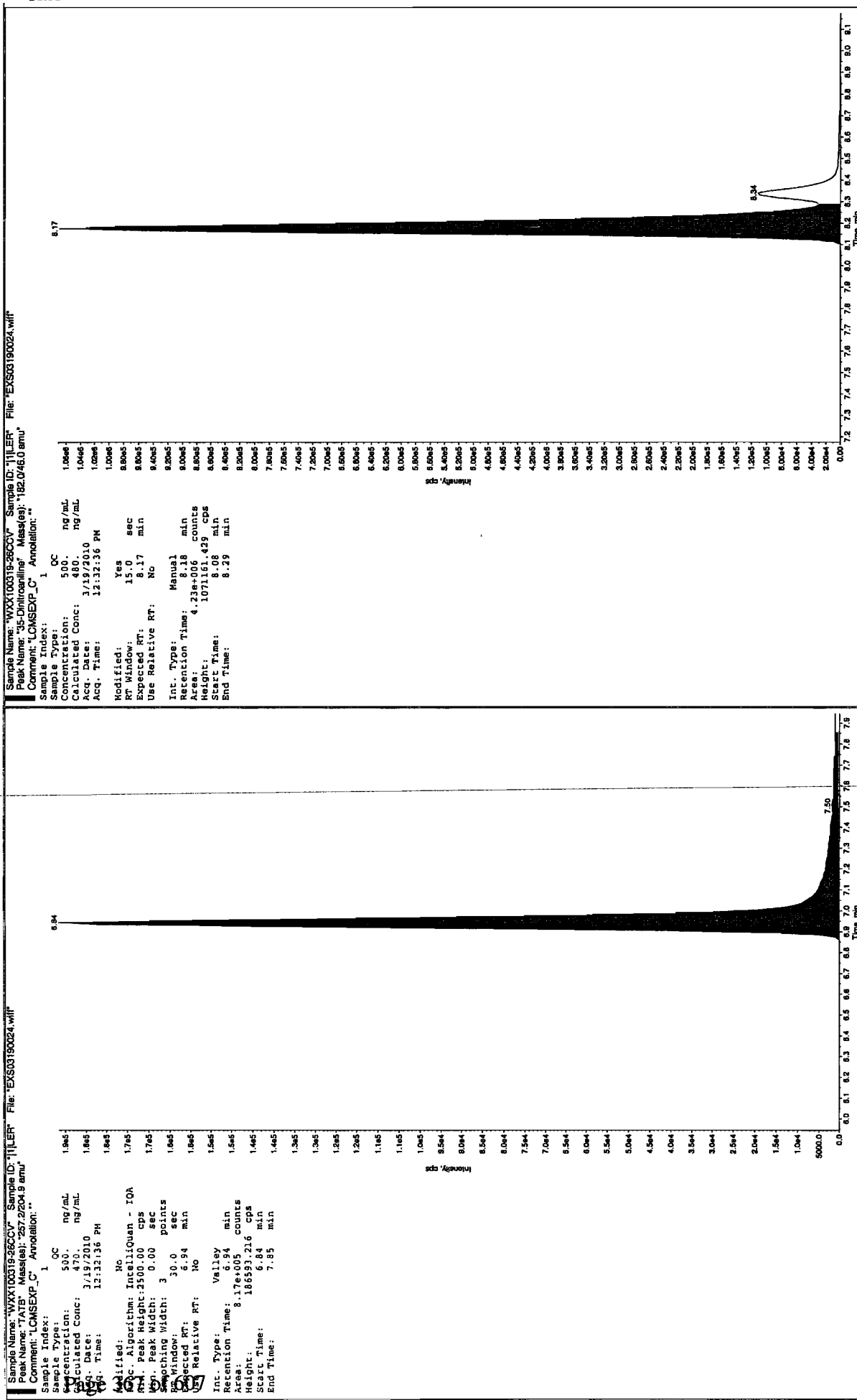
Column used to flag Recovery outside of Limits

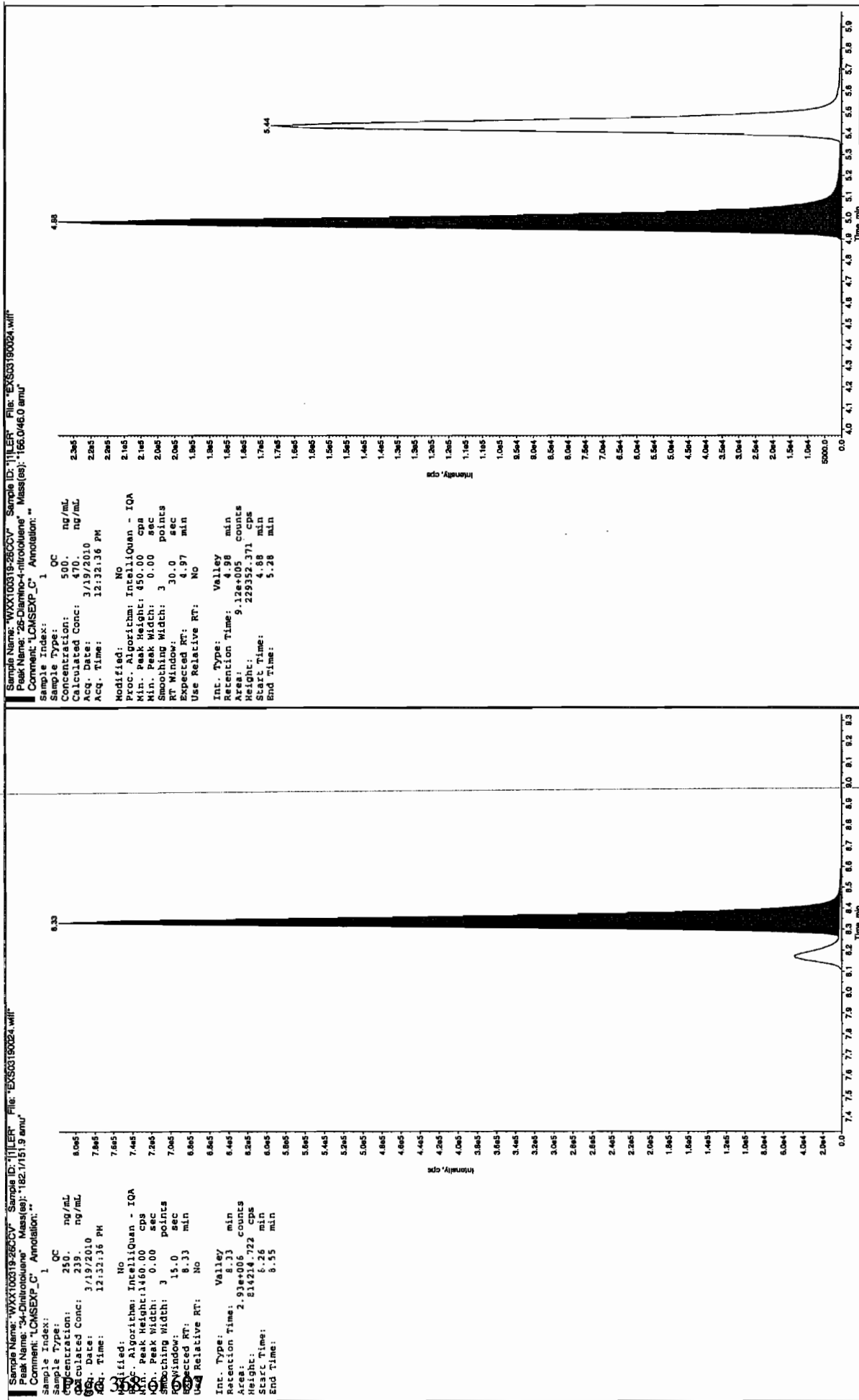
* Value outside of Recovery Limits

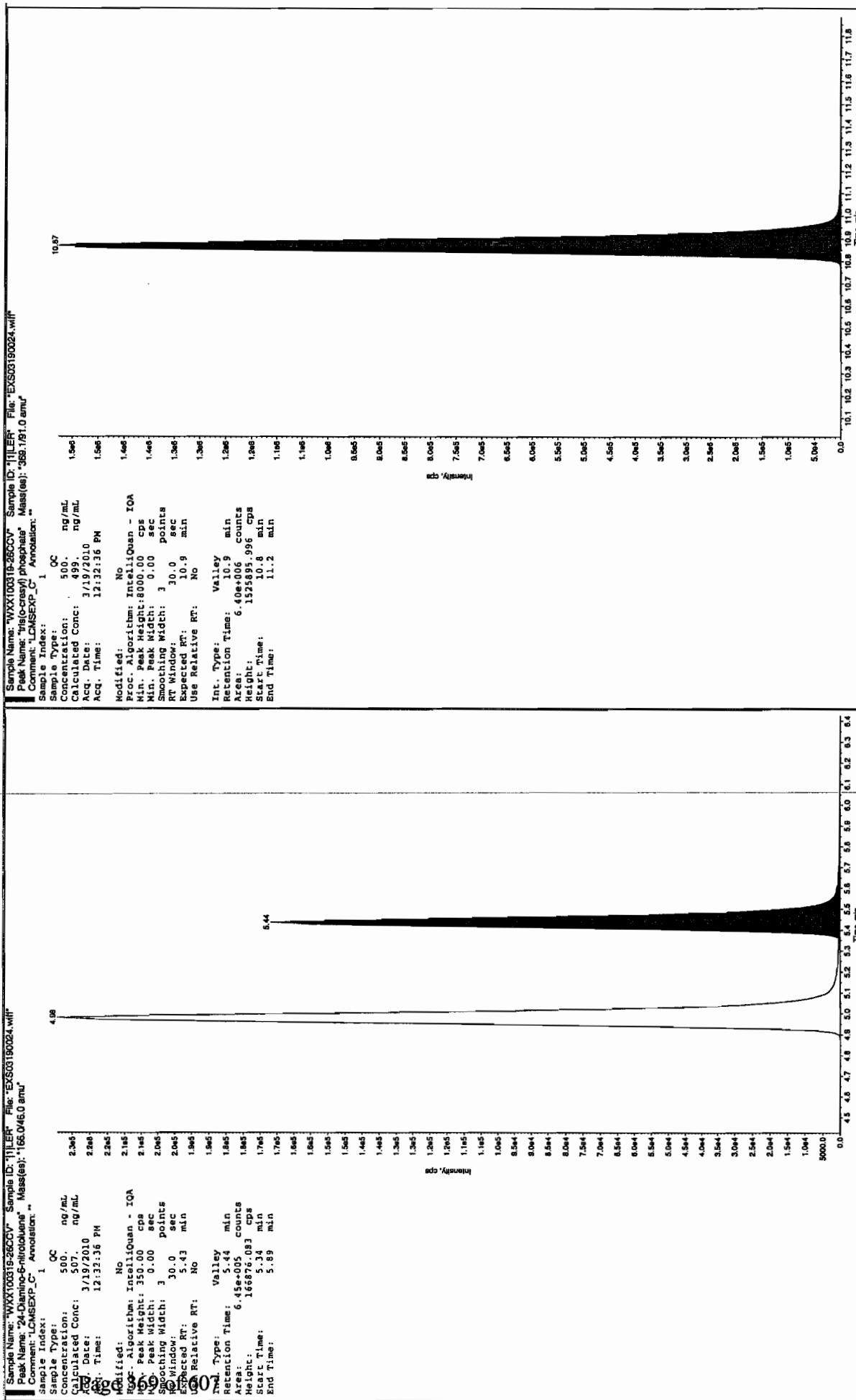
Before Jan 3/23/10



after scan 3/23/10







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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03190026.wiff

Analysis Date: 19-MAR-10 13:04

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.2	98	
2,6-Diamino-4-nitrotoluene	100	96.4	96	
3,4-Dinitrotoluene	50	49.7	99	
3,5-Dinitroaniline	100	99.3	99	
TATB	100	97.6	98	
tris(o-cresyl) phosphate	100	102	102	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

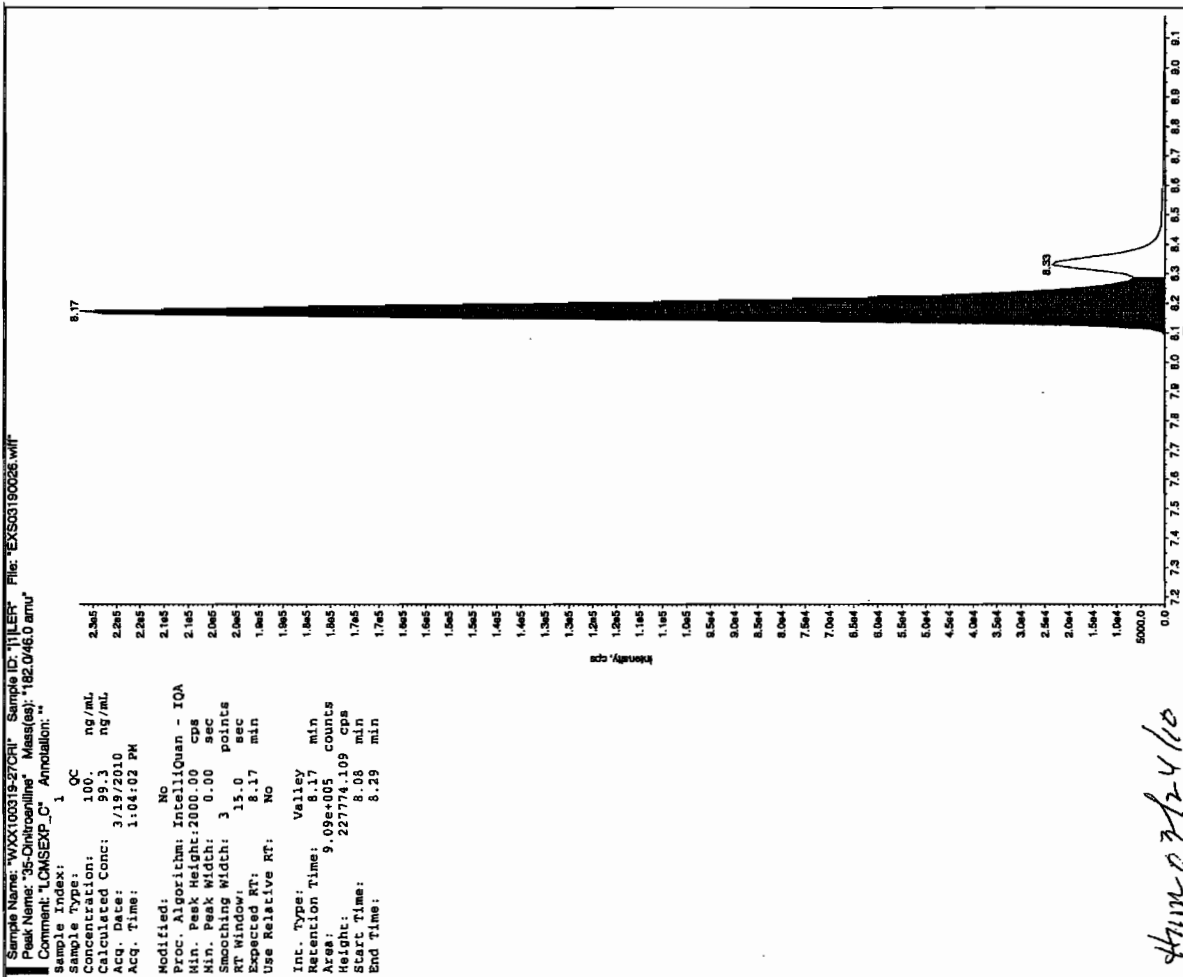
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

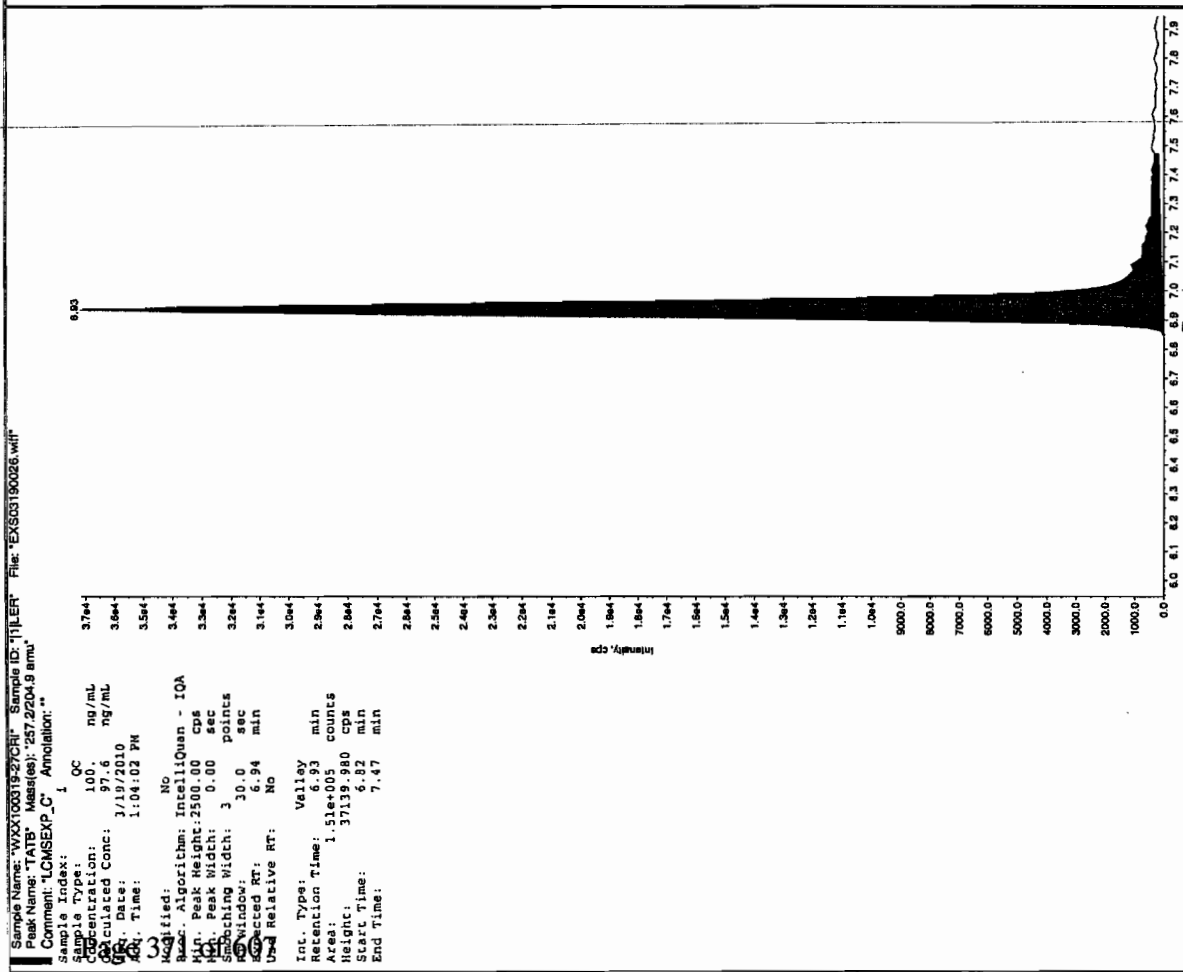
Column used to flag Recovery outside of Limits

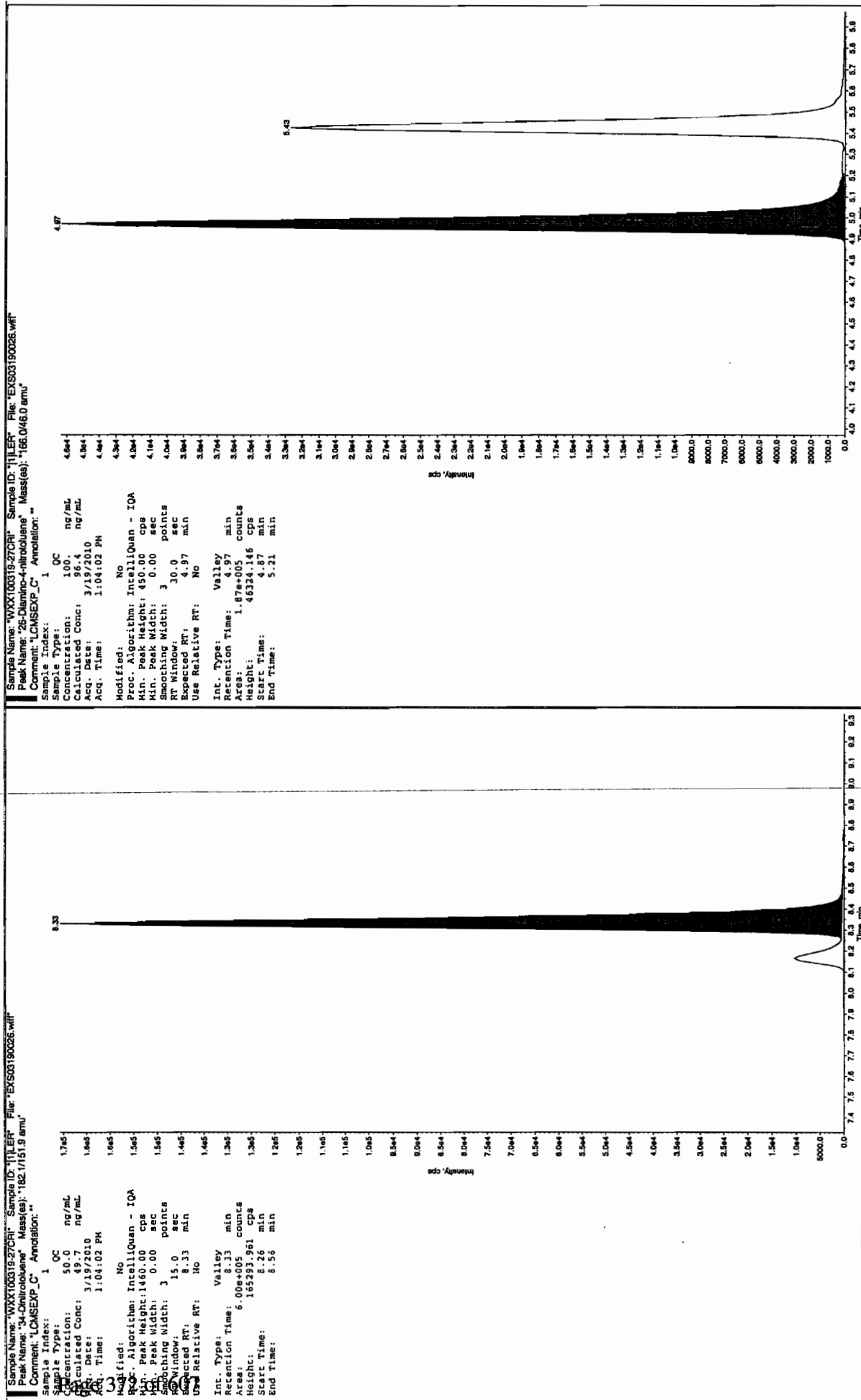
* Value outside of Recovery Limits

Run 3723/10



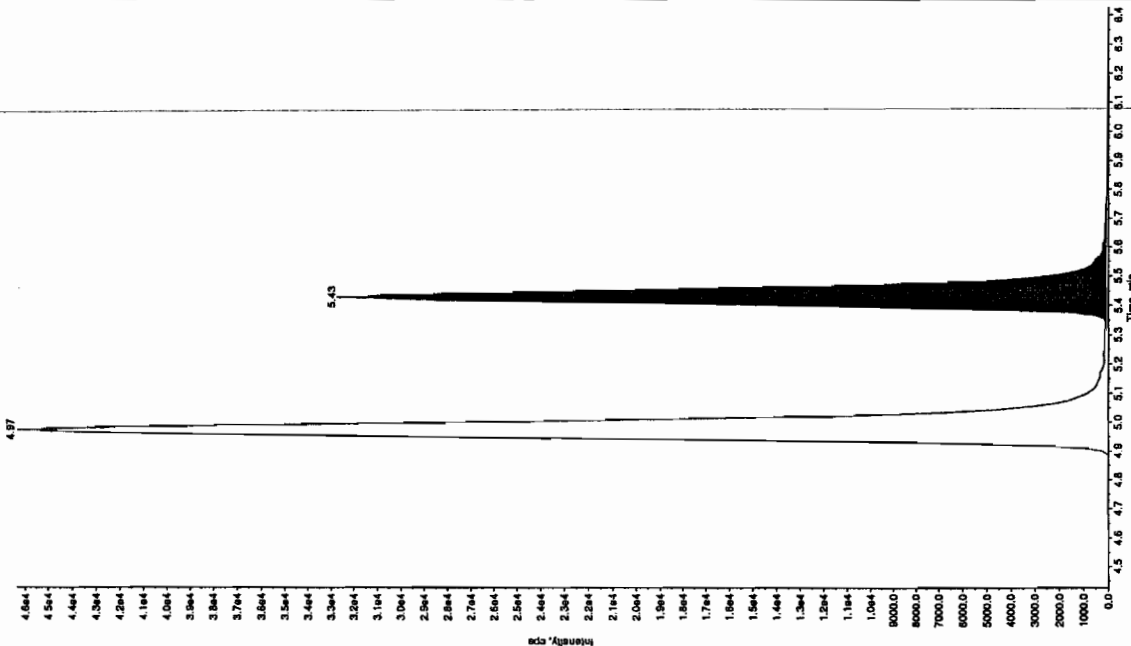
Run 3724/10





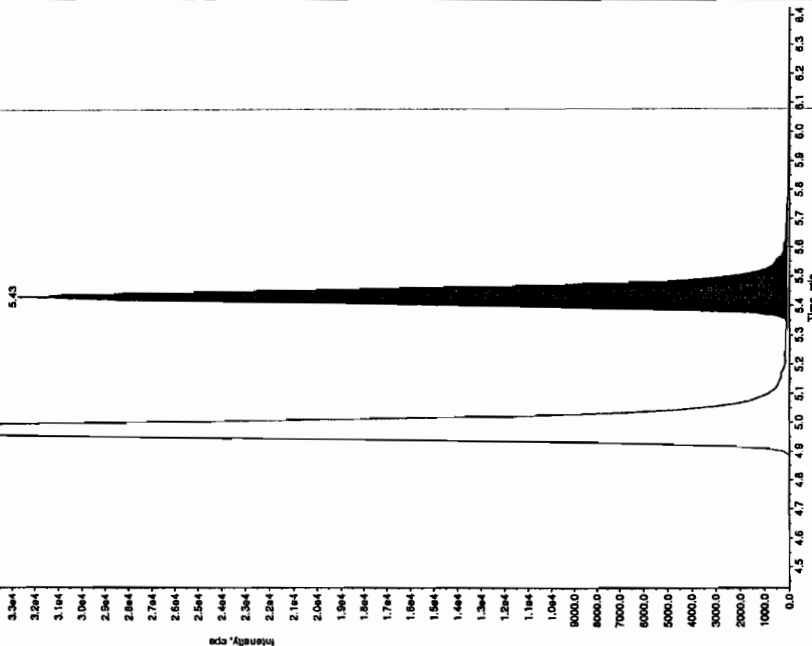
Sample Name: "WXX100319-27CR" Sample ID: "11LEF" File: "EX50319026.wif"
 Peak Name: "tris(cresyl) phosphite" Mass(es): 359.1/91.0 amu
 Comment: "LCMSEXP_C_1 Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 102. ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:04:02 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 8000.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Area: 1.42e+006 counts
 Height: 357945.740 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "WXX100319-27CR" Sample ID: "11LEF" File: "EX50319026.wif"
 Peak Name: "24-Diamino-6-nitrothiophene" Mass(es): 156.0/46.0 amu
 Comment: "LCMSEXP_C_1 Annotation: "

Sample Index: 1
 Sample Type: QC
 Concentration: 100. ng/mL
 Calculated Conc: 98.2 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 1:04:02 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 30.0 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 1.25e+005 counts
 Height: 32625.542 cps
 Start Time: 5.33 min
 End Time: 5.69 min



7A
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03190037.wiff

Analysis Date: 19-MAR-10 15:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	401	80	
2,6-Diamino-4-nitrotoluene	500	408	82	
3,4-Dinitrotoluene	250	227	91	
3,5-Dinitroaniline	500	473	95	
TATB	500	479	96	
tris(o-cresyl) phosphate	500	471	94	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

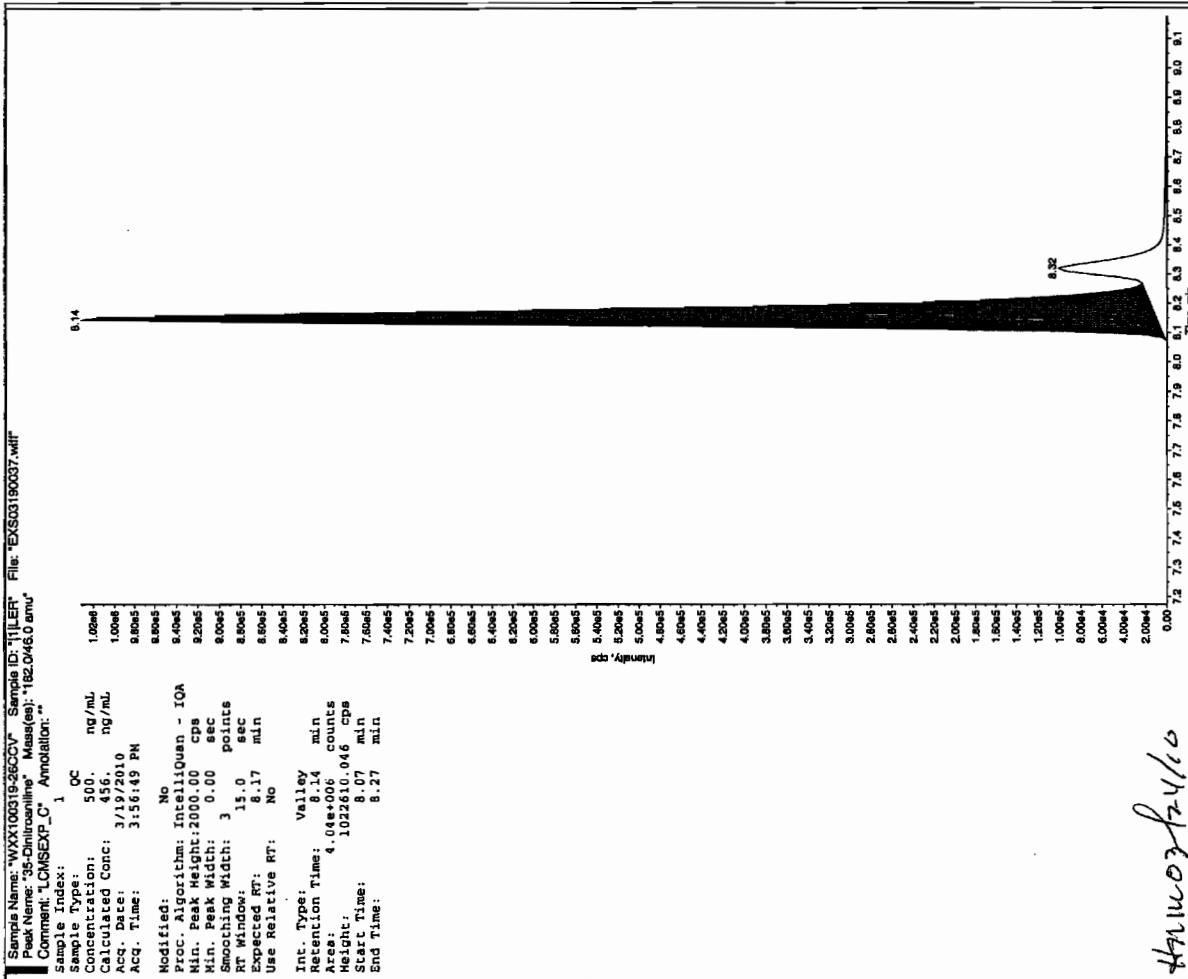
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

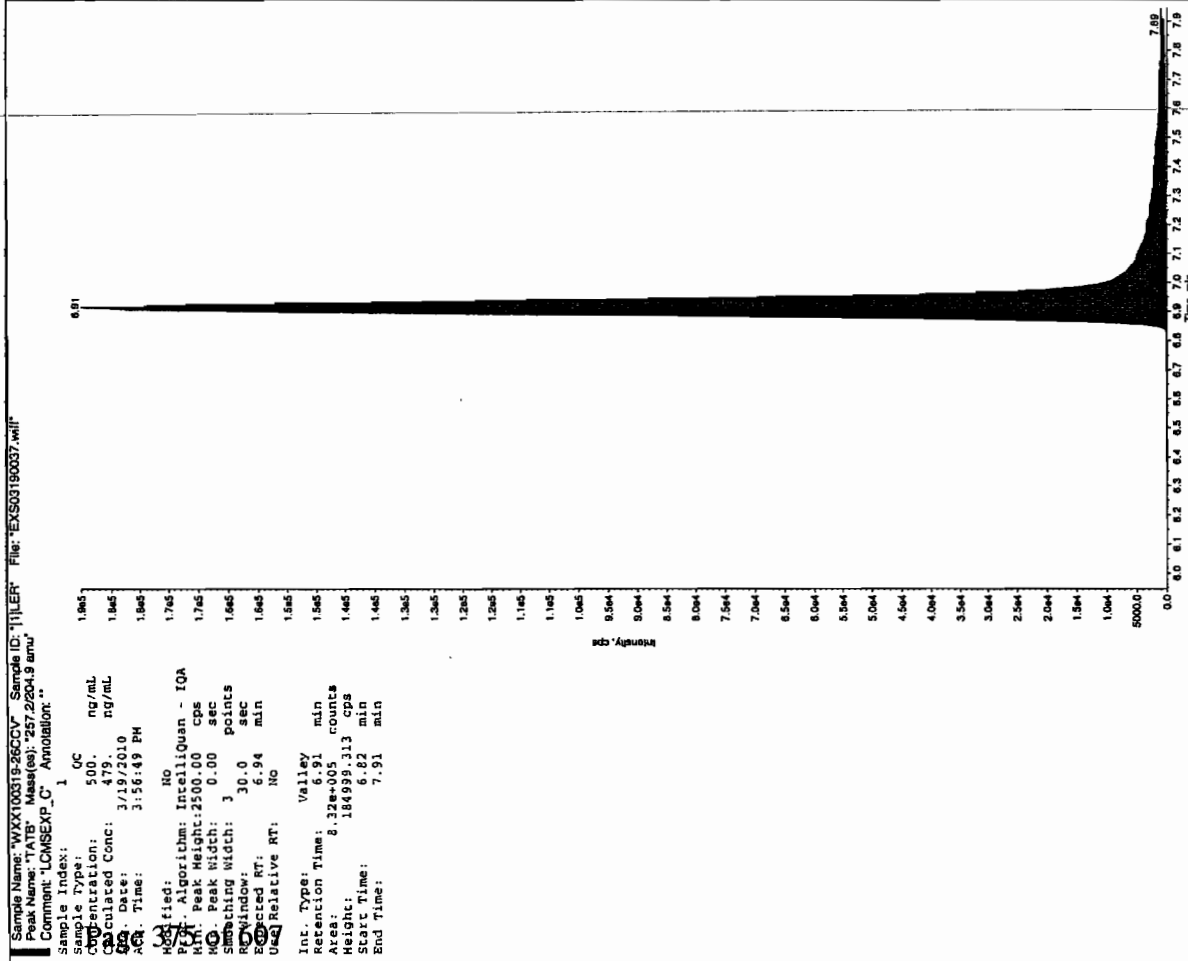
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Before Jan 3/23/10

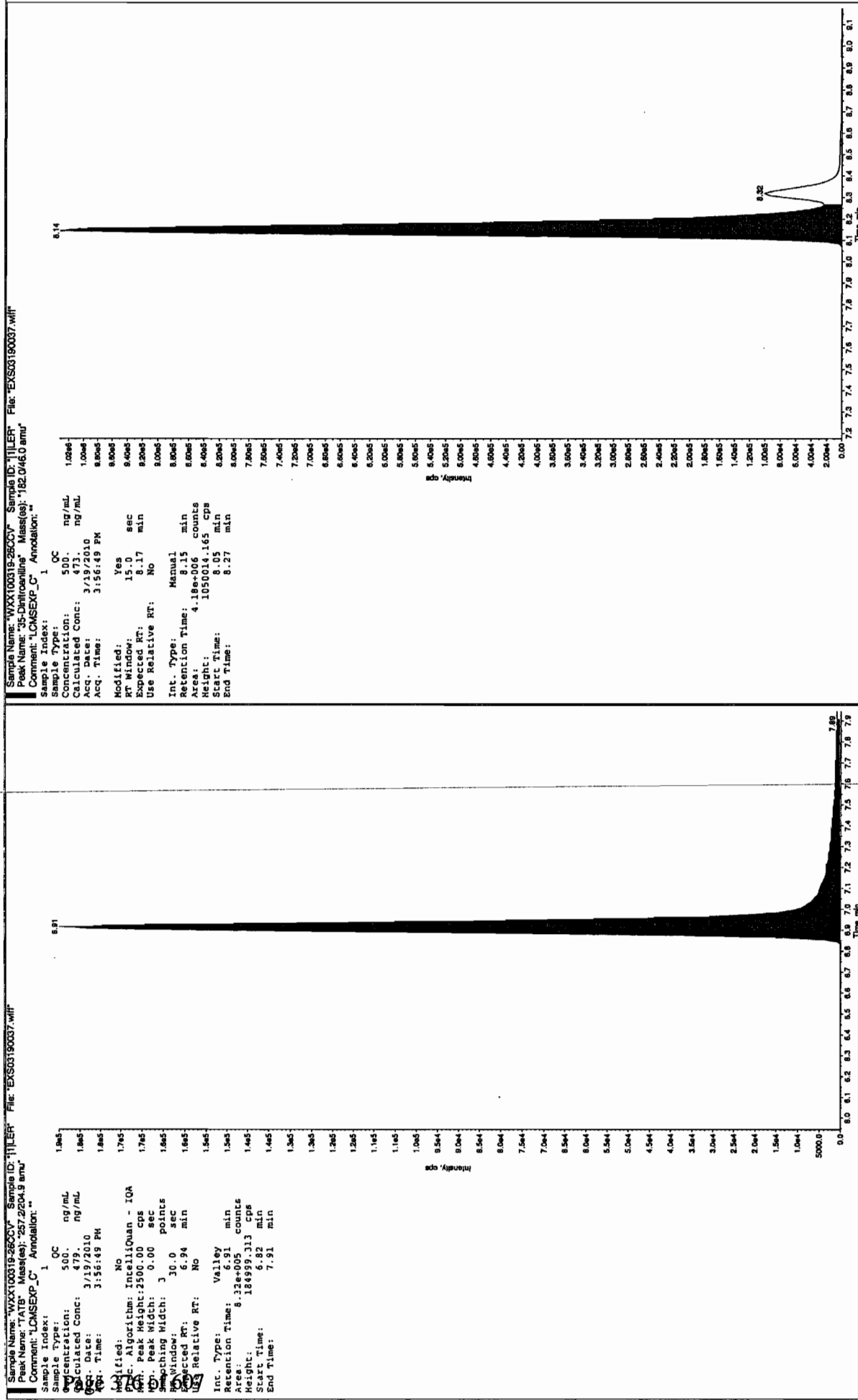


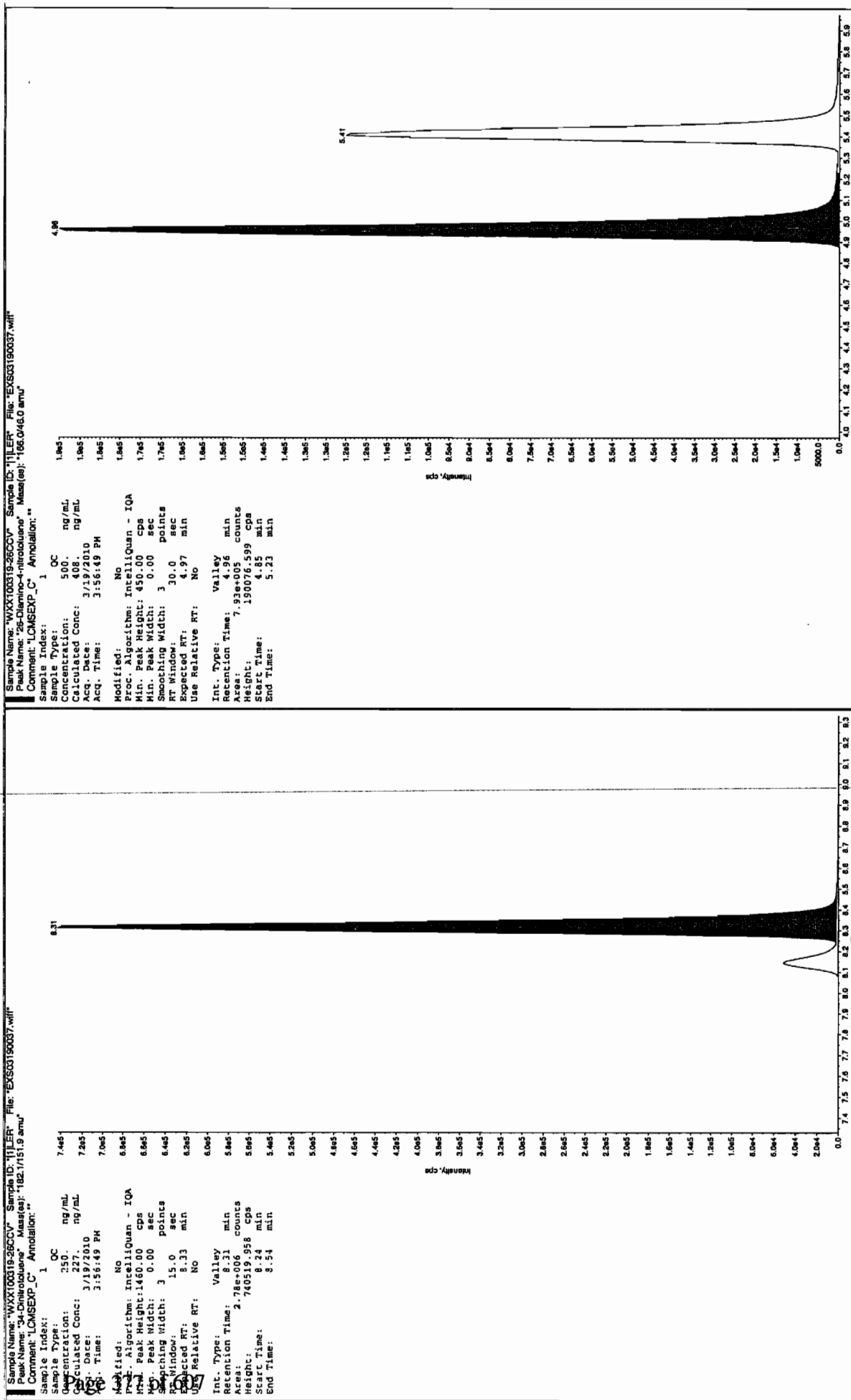
Jan 3/24/10

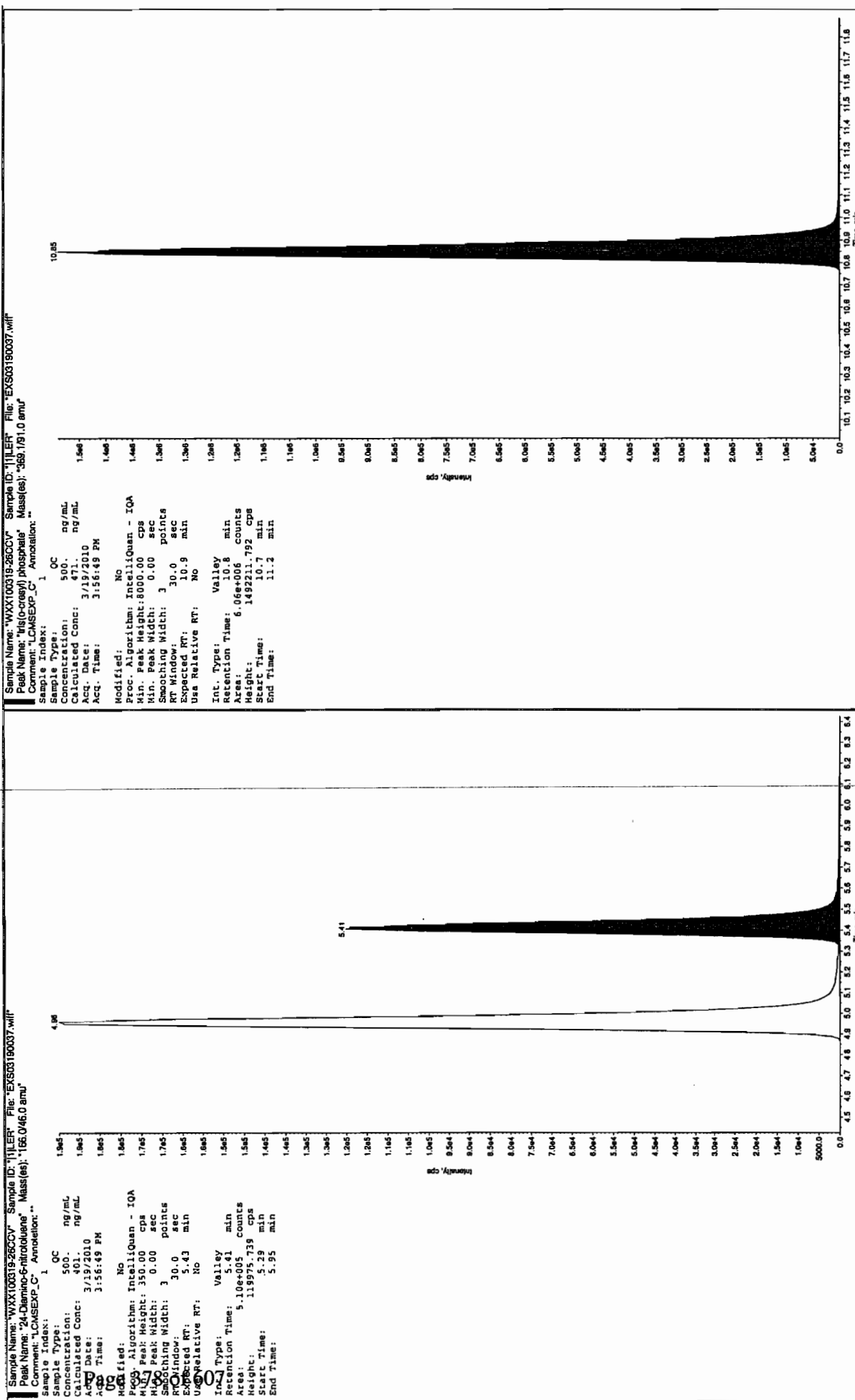


*GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

after Jan 3/23/10







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

7B
Explosives CRI Standard

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1956

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXS03190039.wiff

Analysis Date: 19-MAR-10 16:28

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	100	81.3	81	
3,4-Dinitrotoluene	50	47.6	95	
3,5-Dinitroaniline	100	98.6	99	
TATB	100	98.6	99	
tris(o-cresyl) phosphate	100	93.2	93	
2,4-Diamino-6-nitrotoluene	100	83.2	83	

Recovery Limits:

3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

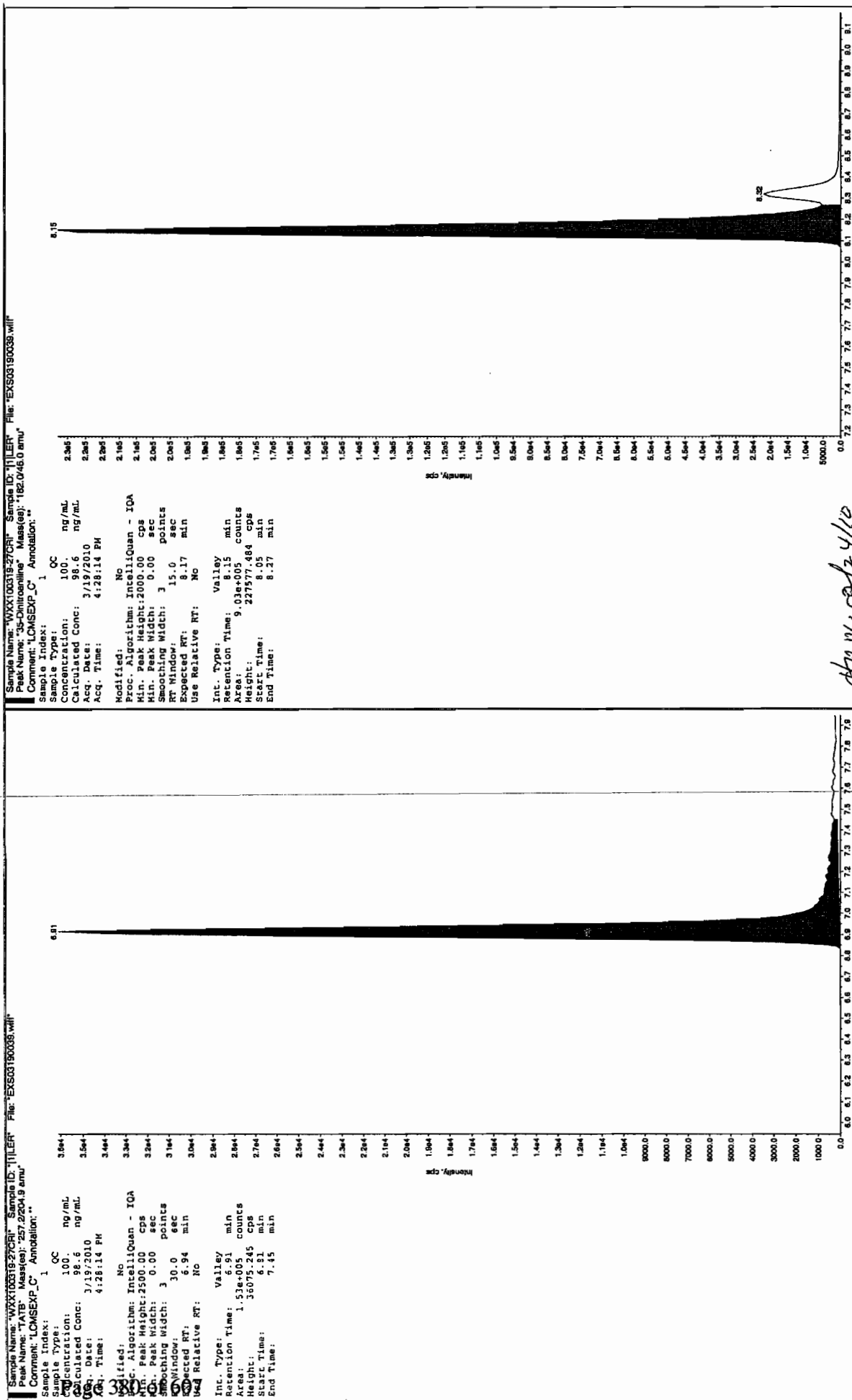
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

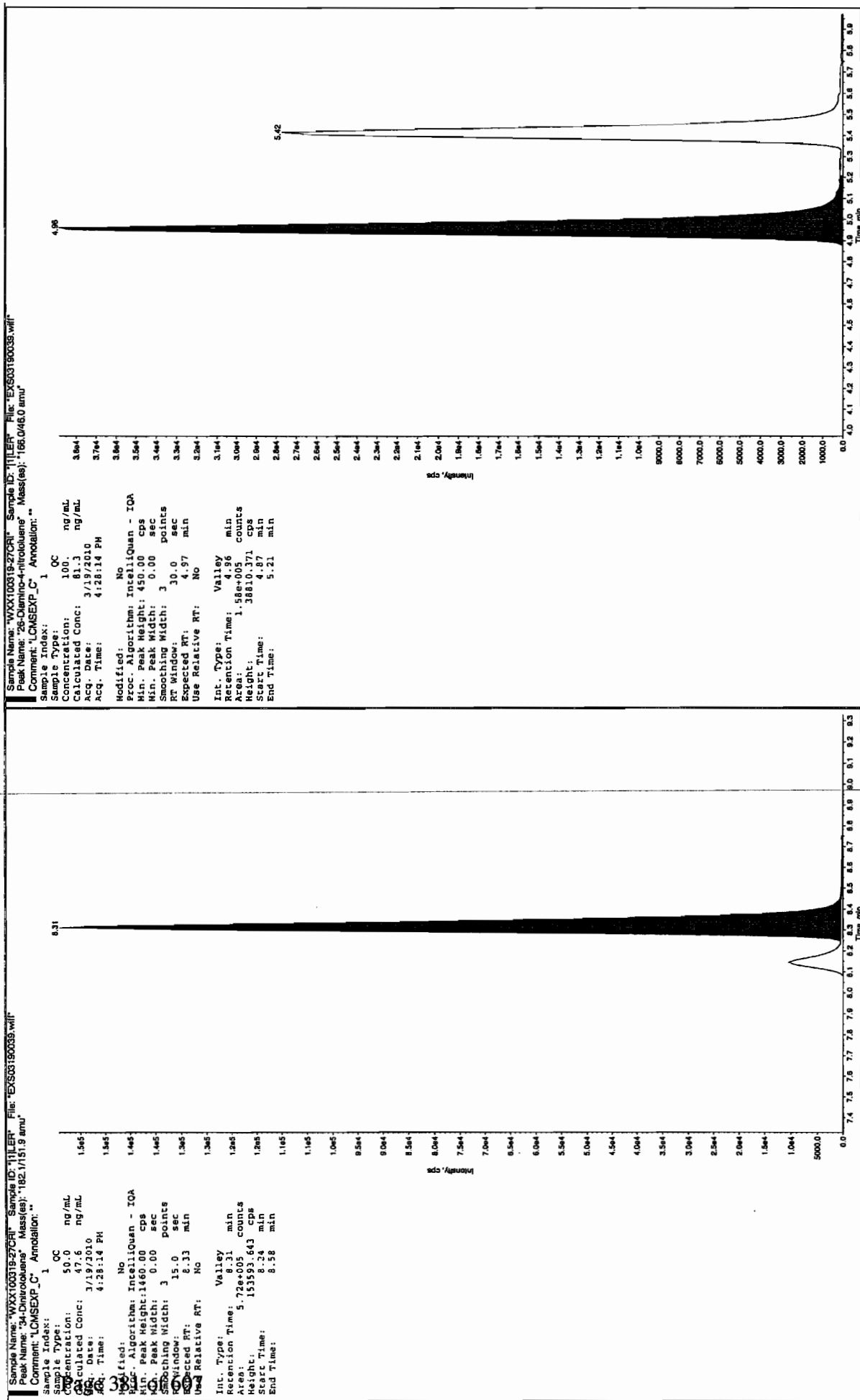
Column used to flag Recovery outside of Limits

* Value outside of Recovery Limits

Run 3/23/10



Run 3/23/10

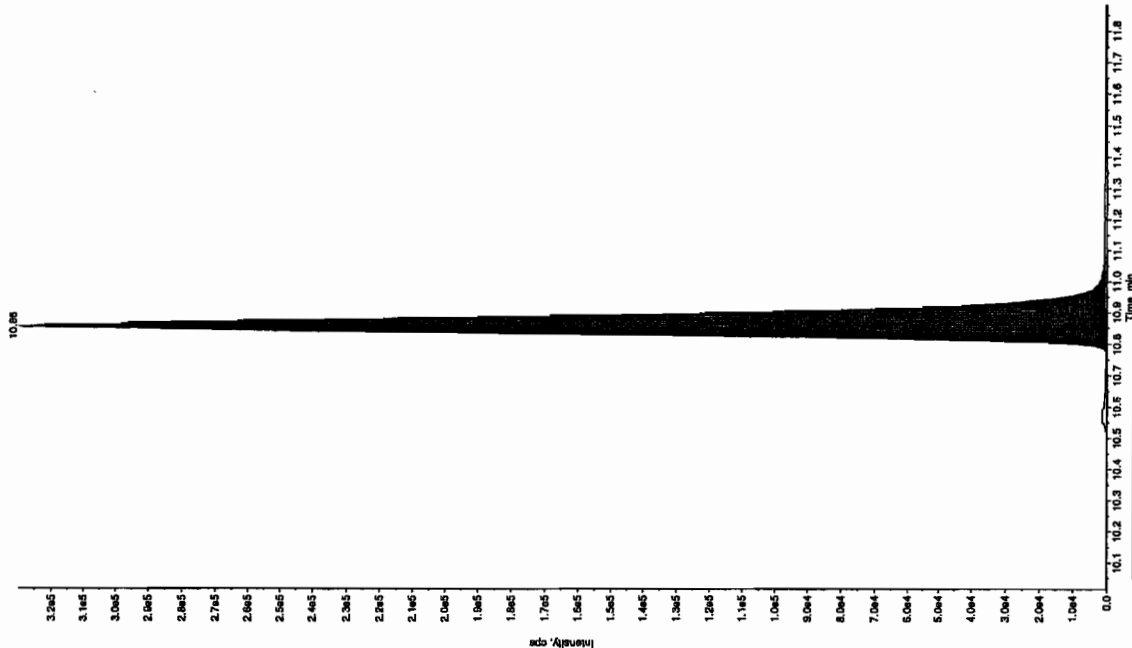
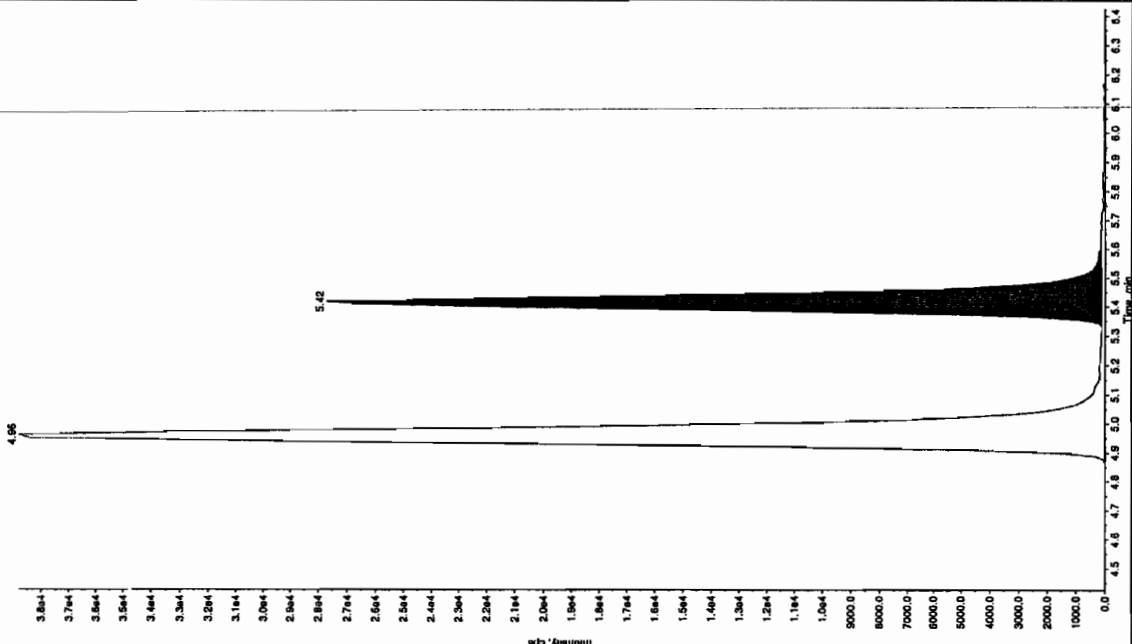


Sample Name: "WXX100319-27CH" Sample ID: "JLER" File: "EX503190039.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Name: "WXX100319-27CH" Sample ID: "JLER" File: "EX503190039.wif"
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "165.046.0 amu"
 Comment: "LCMSEXP_C" Annotation: "

Sample Index: 1
 Sample Type: GC
 Concentration: 100 ng/mL
 Calculated Conc: 93.2 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 4:28:14 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: 30.0 sec
 Expected RT: 10.9 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 10.9 min
 Peak Height: 1.30e+005 counts
 Peak Width: 329156.415 cps
 Start Time: 10.8 min
 End Time: 11.2 min

Sample Index: 1
 Sample Type: GC
 Concentration: 100 ng/mL
 Calculated Conc: 81.2 ng/mL
 Acq. Date: 3/19/2010
 Acq. Time: 4:28:14 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: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Peak Height: 1.06e+005 counts
 Peak Width: 27625.401 cps
 Start Time: 5.32 min
 End Time: 5.63 min



QUALITY CONTROL DATA

1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 956051

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 1202049932

Sample Amount 2

Moisture:

Amount Units g

Date Received: 22-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319062a

Date Analyzed: 20-MAR-10 22:53

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

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Name: C:\MASSLYNX\NEW_EXP.PRO\DATA\EXP0319062a

Date: 20-Mar-2010

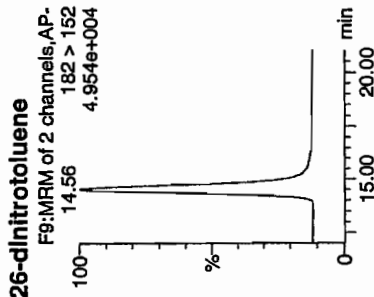
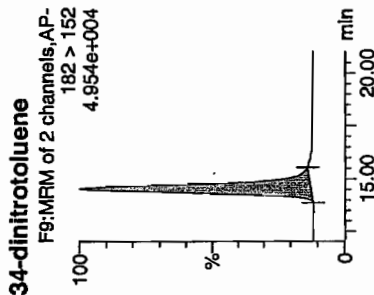
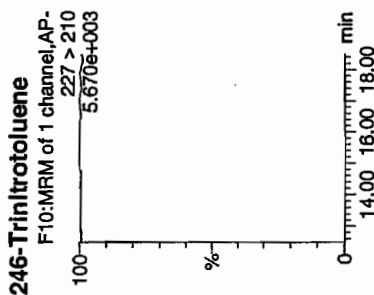
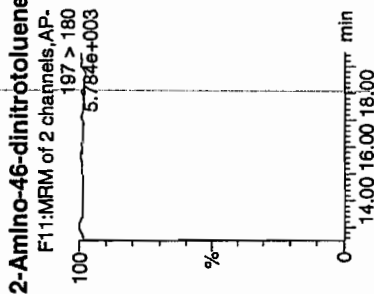
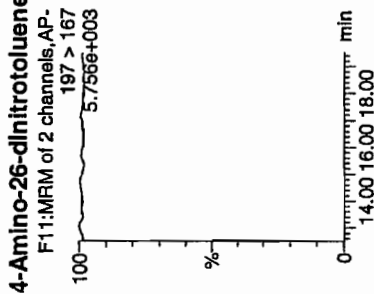
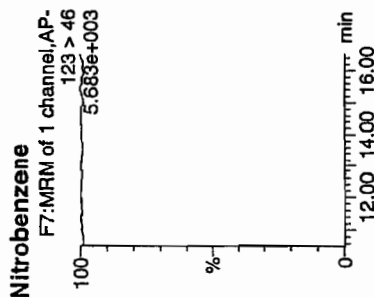
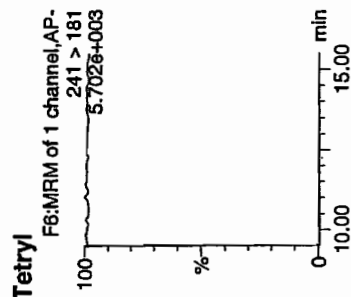
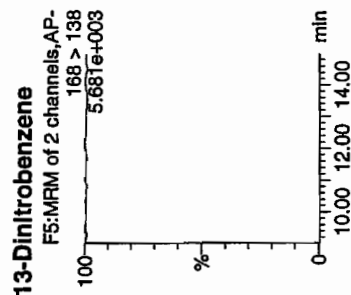
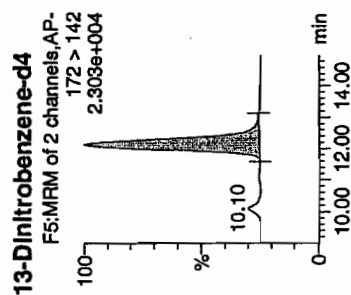
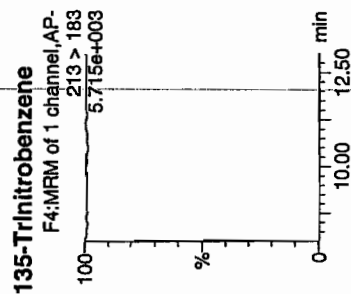
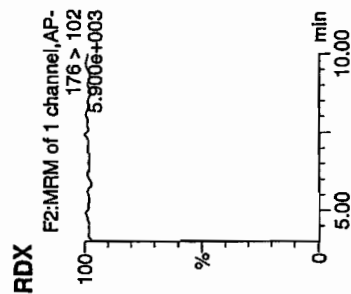
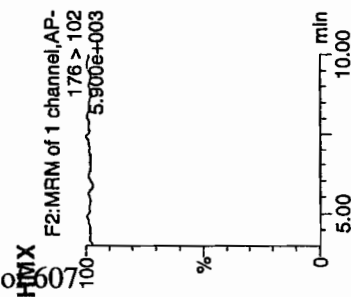
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☎: 1202049932

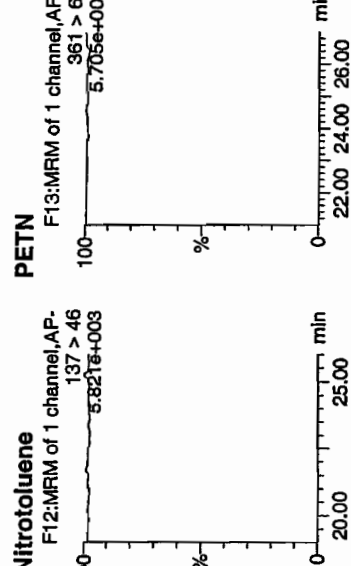
V₃: 2:5.A

5.

47
3/21/00



Hum 03/24/10



Water	Modulus	Grain	% Rec	PaDev	PaSN
428.9265	85.8	-14.2	1854.3		
214.4671	85.8	-14.2	1125.5		
487.2580	93.5	-6.5	1399.3		

1

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 956051

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 1202049932

Sample Amount 2

Moisture:

Amount Units g

Date Received: 22-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160014.wiff

Date Analyzed: 16-MAR-10 11:41

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

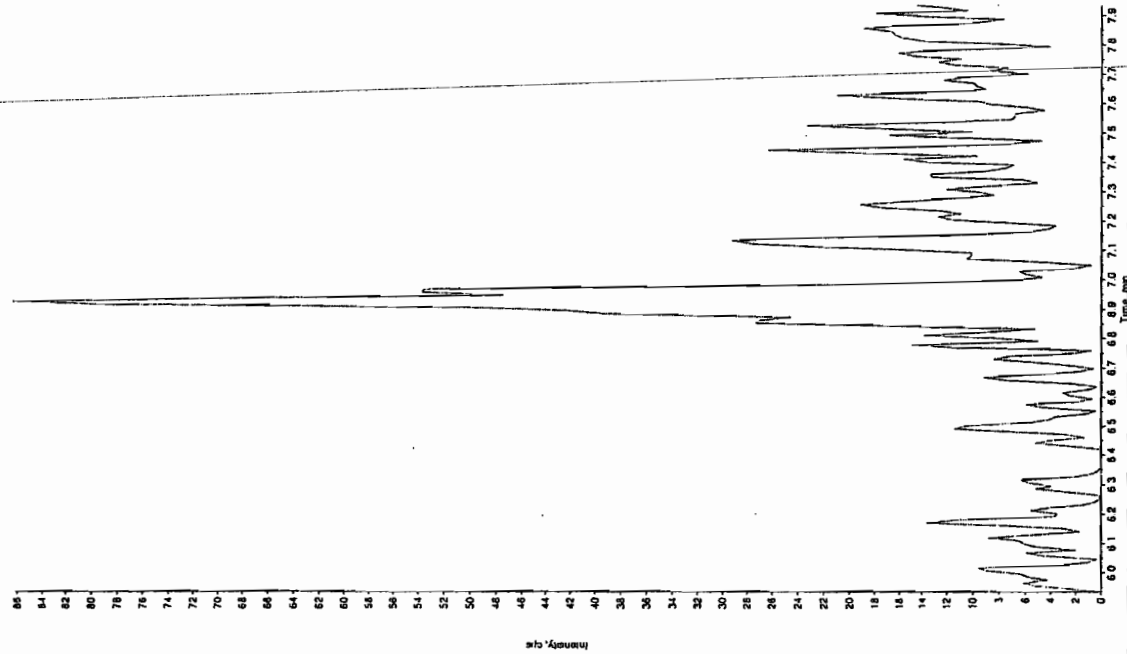
*Concentration =

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

den 3/18/10

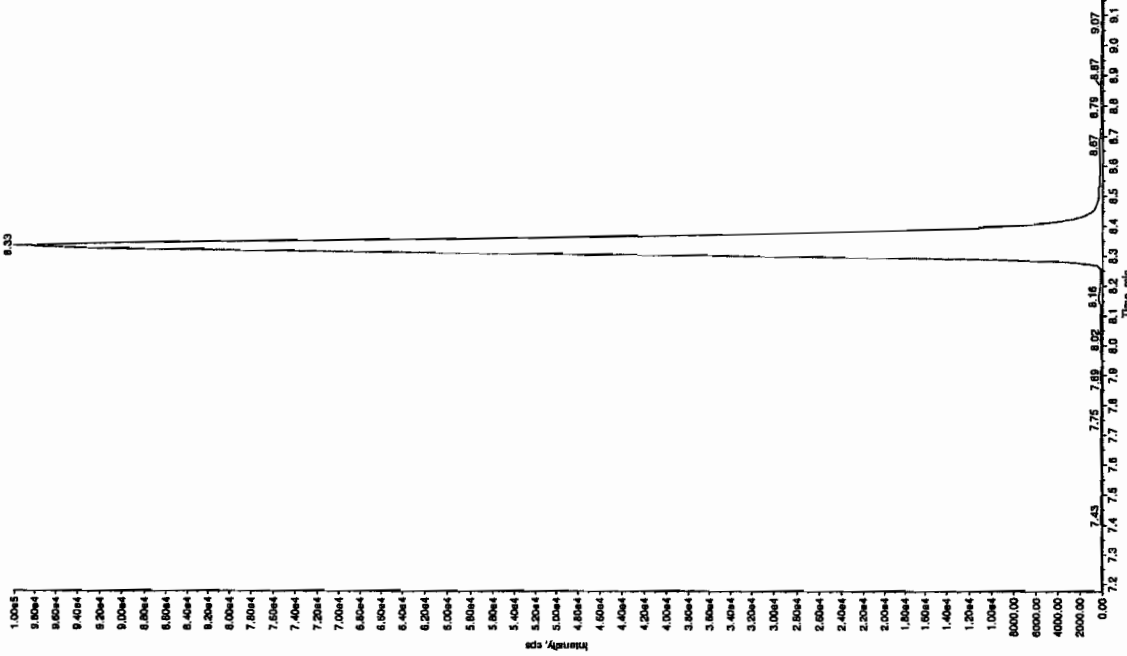
Sample Name: "1202049932" Sample ID: "956033121" File: "EX503160014.will"
 Peak Name: "1A7B" Mass(es): "257.2204.9 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 11:41:57 AM
 Modified: No

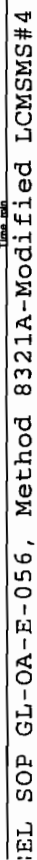


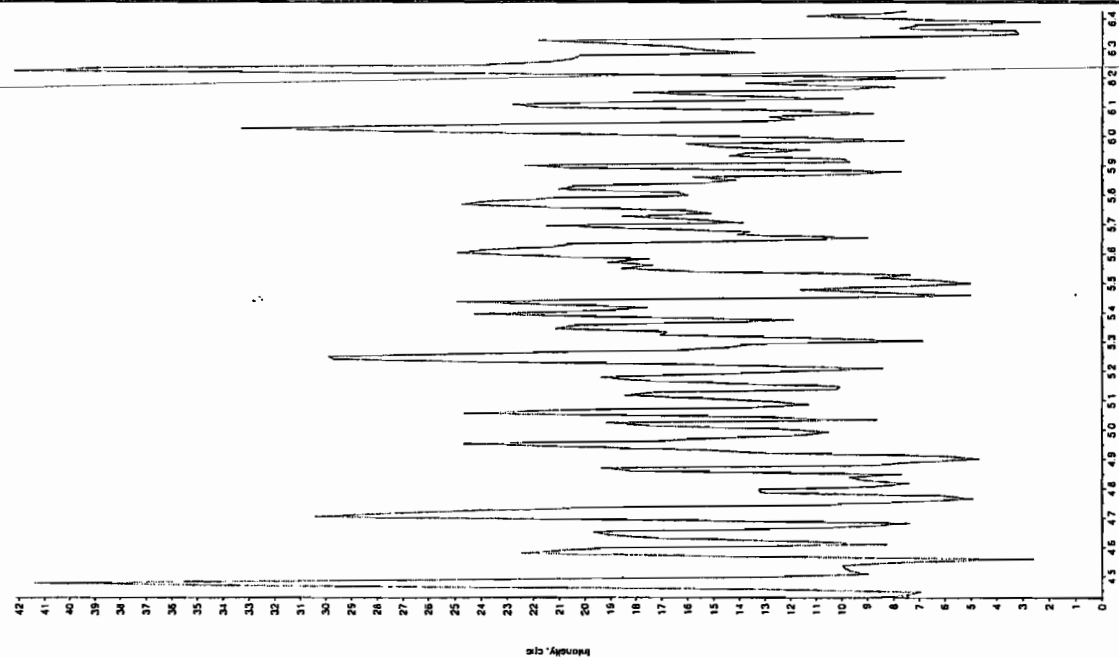
Sample Name: "1202049932" Sample ID: "956033121" File: "EX503160014.will"
 Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: 0.00 ng/mL
 Acq. Date: 3/18/2010
 Acq. Time: 11:41:57 AM
 Modified: No

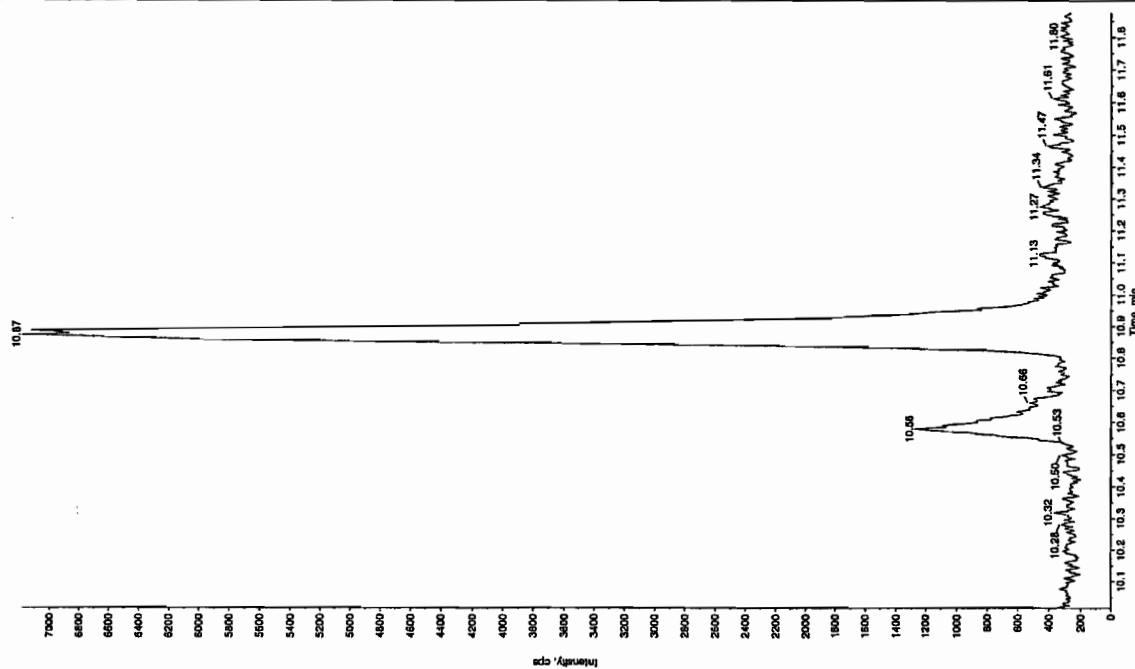


den 03/18/10





Sample Name: "1202049932" Sample ID: "95605321ER" File: "EX503150014.wiff"
Peak Name: "is(iso-creyl) phosphato" Mass(es): "359.1791.0 amu"
Comment: "LCX83212S" Annotation: ""



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 956051

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 1202049933

Sample Amount 2

Moisture:

Amount Units g

Date Received: 22-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0319063a

Date Analyzed: 20-MAR-10 23:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4730	
121-14-2	2,4-Dinitrotoluene	5390	
121-82-4	RDX	5530	
19406-51-0	4-Amino-2,6-dinitrotoluene	5070	
2691-41-0	HMX	4910	
35572-78-2	2-Amino-4,6-dinitrotoluene	4910	
479-45-8	Tetryl	2740	
606-20-2	2,6-Dinitrotoluene	5210	
78-11-5	PETN	5840	
88-72-2	o-Nitrotoluene	4490	
98-95-3	Nitrobenzene	5050	
99-08-1	m-Nitrotoluene	4770	
99-35-4	1,3,5-Trinitrobenzene	4860	
99-65-0	m-Dinitrobenzene	5140	
99-99-0	p-Nitrotoluene	4770	

*Concentration =

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

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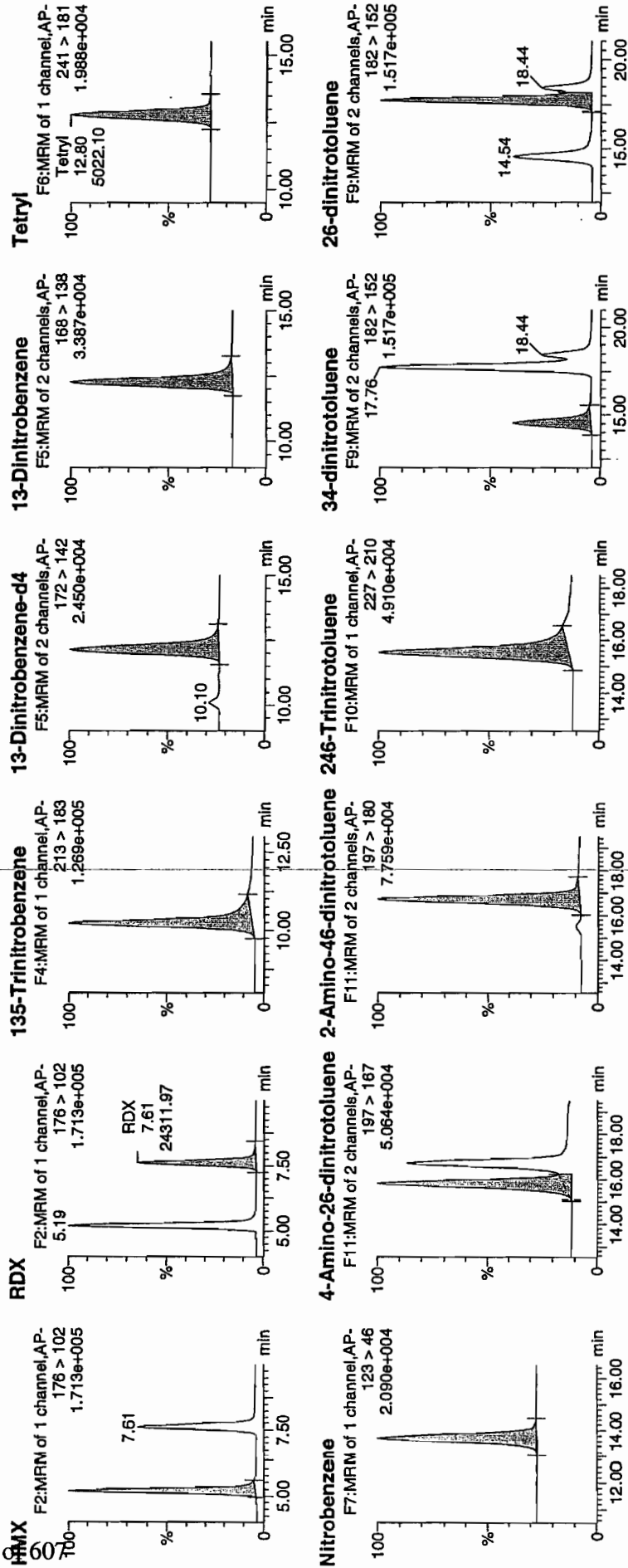
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MSD
3/24/10

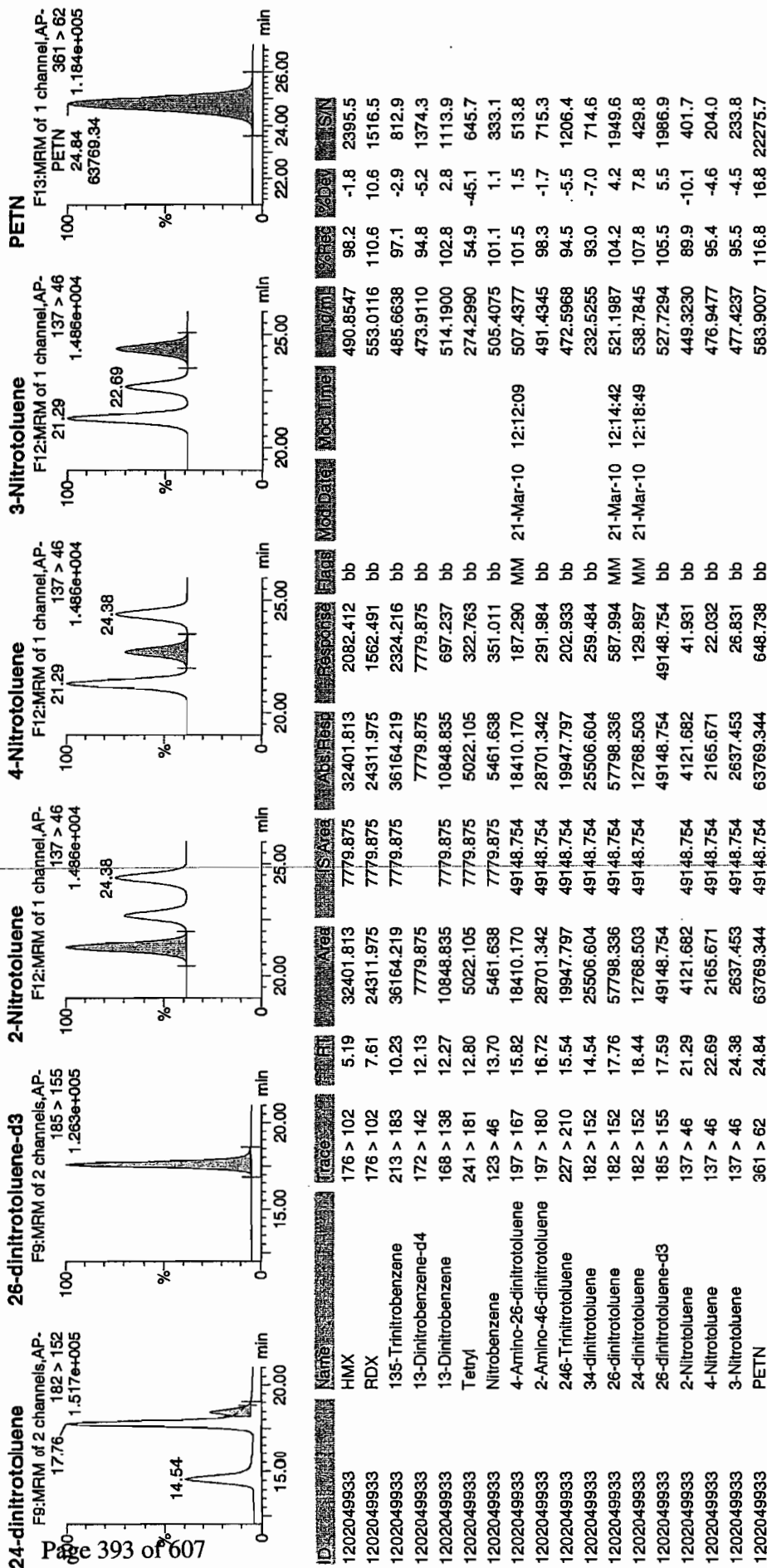
CS | 21

LAU | 956053 | 8033



Handwritten signature/initials

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010



1
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 956051

Lab Code: GEL

GEL Job No (SDG) 10-1956

Matrix: SOIL

GEL Sample ID: 1202049933

Sample Amount 2

Moisture:

Amount Units g

Date Received: 22-FEB-10

Extraction Type Sonication

Extraction Batch ID: 956051

Concentrated Extract Volume (mL) 10

Date Extracted: 25-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03160015.wiff

Date Analyzed: 16-MAR-10 11:57

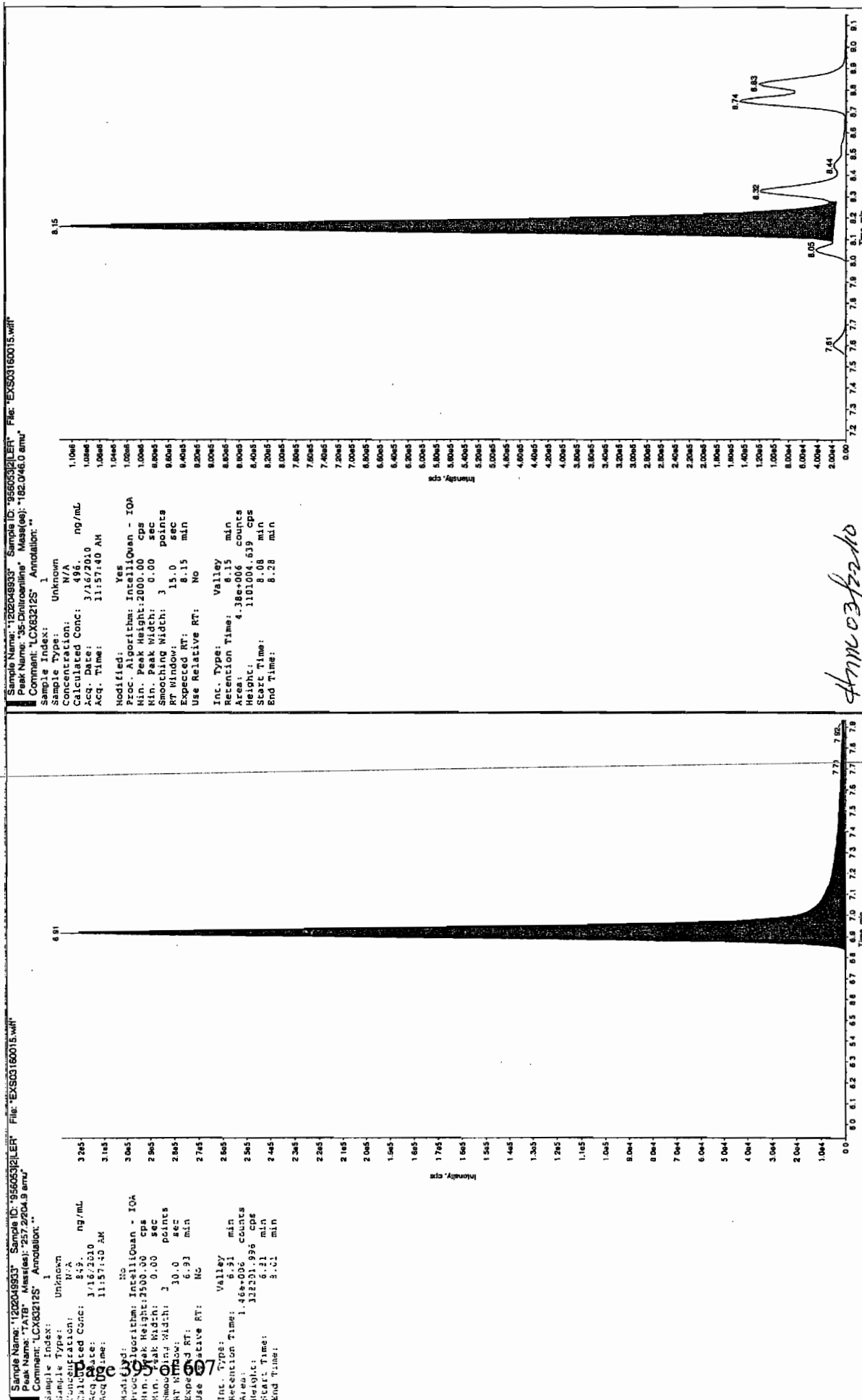
Units: ug/kg

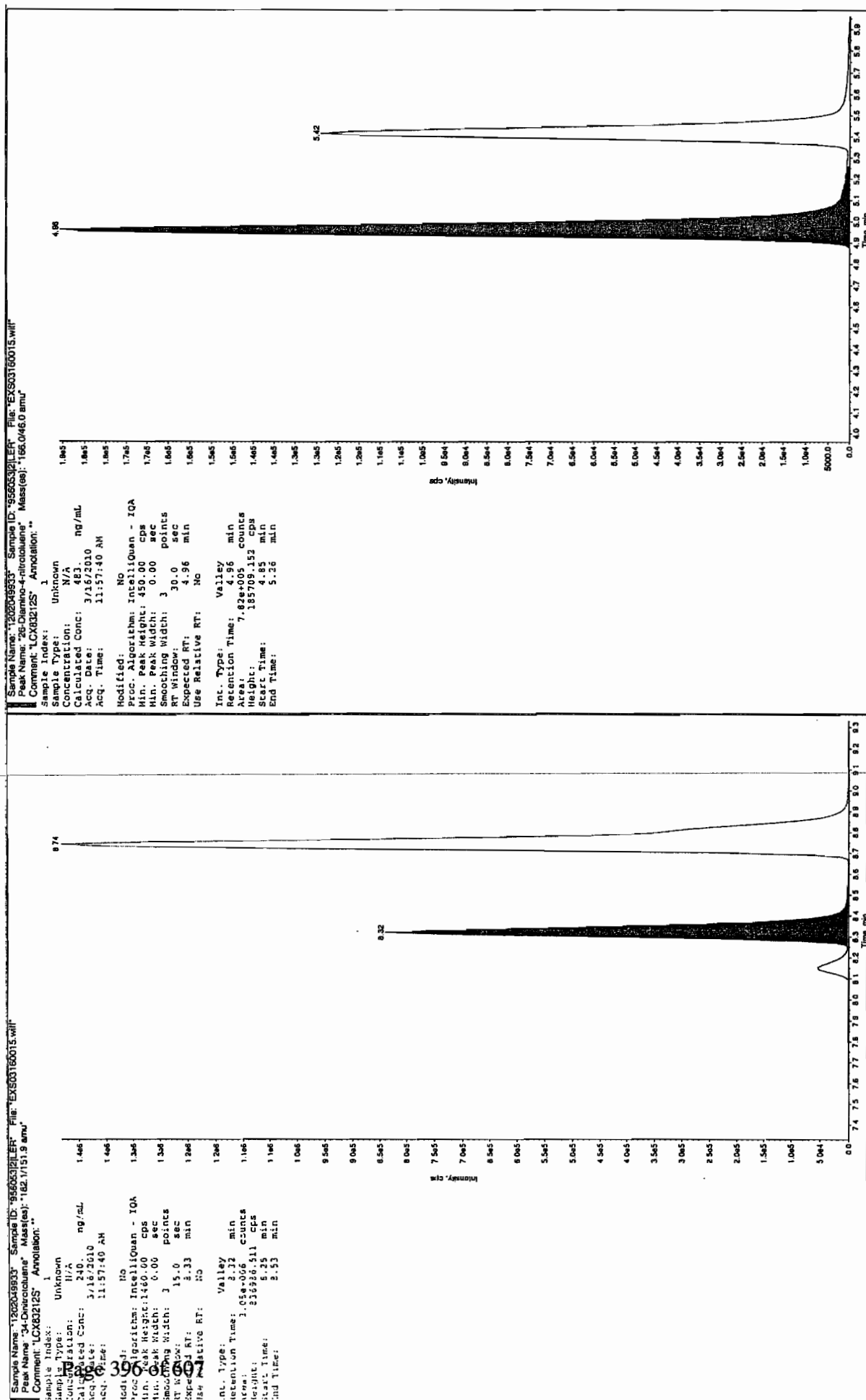
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	8490	
59229-75-3	2,6-Diamino-4-nitrotoluene	4830	
618-87-1	3,5-Dinitroaniline	4960	
6629-29-4	2,4-Diamino-6-nitrotoluene	4460	
78-30-8	tris(o-cresyl) phosphate	5140	

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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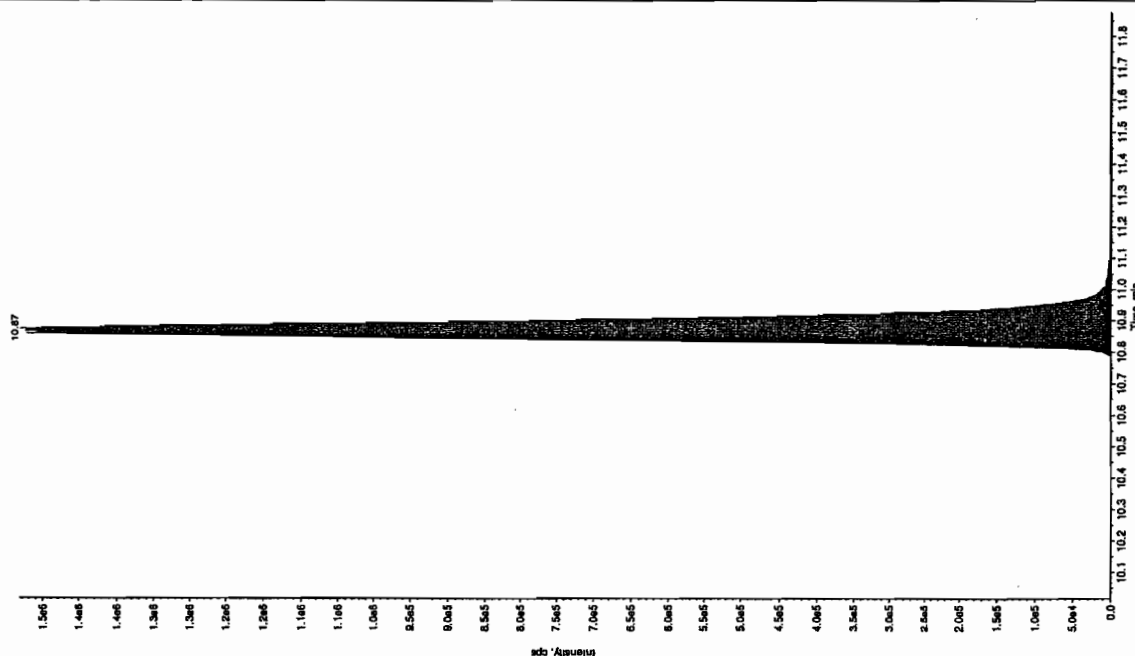
See 318110





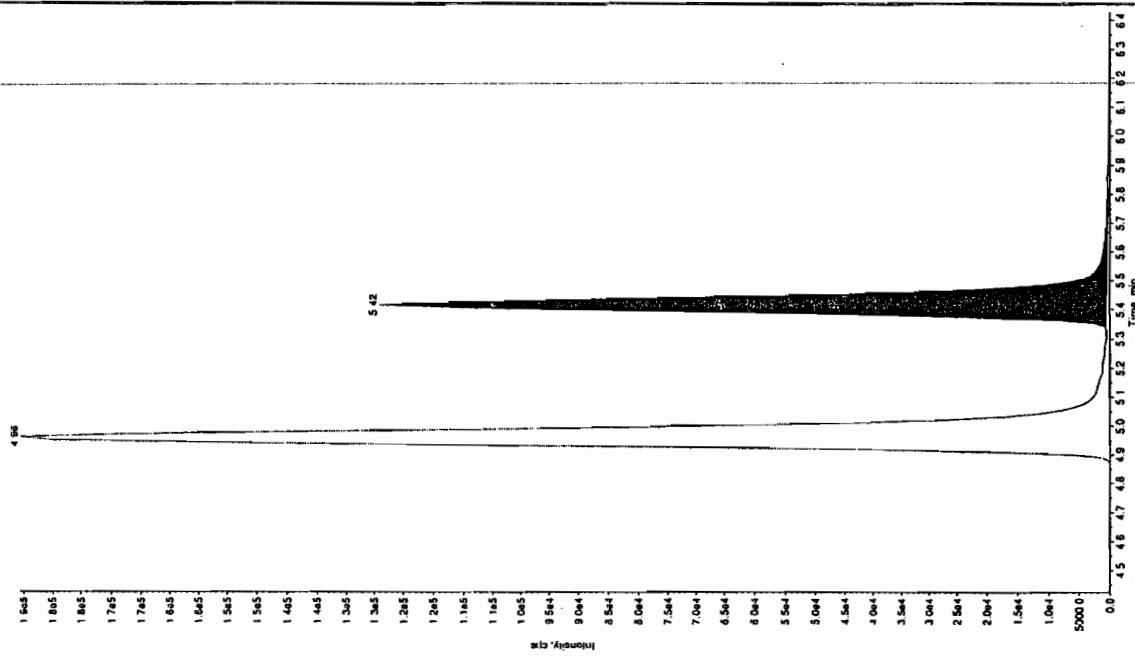
Sample Name: "1202049933" Sample ID: "956032125" File: "EX503160015.wif"
 Peak Name: "74-Diamino-6-imino-2-oxo-1,2,3,4-tetrahydropyrimidin-5-carboxamide" Mass(es): "359.1/91.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 514 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:57:40 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: 6.16e+005 counts
 Height: 1482809.937 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "1202049933" Sample ID: "956032125" File: "EX503160015.wif"
 Peak Name: "74-Diamino-6-imino-2-oxo-1,2,3,4-tetrahydropyrimidin-5-carboxamide" Mass(es): "166.046.0 amu"
 Comment: "LCX032125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 446 ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 11:57:40 AM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.43 min
 Area: 4.89e+005 counts
 Height: 121592.911 cps
 Start Time: 5.33 min
 End Time: 5.51 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: 956051 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)
1202049932 MB	25-FEB-2010 16:42:00	2	10	5
1202049933 LCS	25-FEB-2010 16:42:00	2	10	5
247545001	25-FEB-2010 16:42:00	2	10	5
247545002	25-FEB-2010 16:42:00	2	10	5
247551001	25-FEB-2010 16:42:00	2	10	5
247551002	25-FEB-2010 16:42:00	2	10	5
247552002	25-FEB-2010 16:42:00	2	10	5
247556001	25-FEB-2010 16:42:00	2	10	5
1202049934 MS (247556001)	25-FEB-2010 16:42:00	2	10	5
1202049935 MSD (247556001)	25-FEB-2010 16:42:00	2	10	5
247556002	25-FEB-2010 16:42:00	2	10	5
247556003	25-FEB-2010 16:42:00	2	10	5
247556004	25-FEB-2010 16:42:00	2	10	5
247556005	25-FEB-2010 16:42:00	2	10	5
247565001	25-FEB-2010 16:42:00	2	10	5
247565002	25-FEB-2010 16:42:00	2	10	5
247565003	25-FEB-2010 16:42:00	2	10	5
247565004	25-FEB-2010 16:42:00	2	10	5
247565005	25-FEB-2010 16:42:00	2	10	5
247565006	25-FEB-2010 16:42:00	2	10	5
247565007	25-FEB-2010 16:42:00	2	10	5
247565008	25-FEB-2010 16:42:00	2	10	5
247565009	25-FEB-2010 16:42:00	2	10	5
247565010	25-FEB-2010 16:42:00	2	10	5

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202049933	8321 Explosives LCS	DCX100208-03	.1	mL
LCS	1202049933	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
MS	1202049934	8321 Explosives LCS	DCX100208-03	.1	mL
MS	1202049934	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
MSD	1202049935	8321 Explosives LCS	DCX100208-03	.1	mL
MSD	1202049935	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
SURR	All	3,4-Dinitrotoluene (8330 Surrogate) 100ppm	DXP100223-02	.05	mL

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 03/19/10
 Extr. Injection Volume: 50ul
 Sequence Number: 031910expA
 Initial Calibration Date: 03/19/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.1
 Mobile Phase Lot#: 1285274, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *Thine*
 Date: *03/24/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100319-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0319001a	XIBLK01	MAP	3/19/10 16:54			1		USE	B
EXP0319002a	XIBLK01	MAP	3/19/10 17:23			1		USE	B
EXP0319003a	WXXICAL-01	MAP	3/19/10 17:53			1		USE	I
EXP0319004a	WXXICAL-02	MAP	3/19/10 18:22			1		USE	I
EXP0319005a	WXXICAL-03	MAP	3/19/10 18:52			1		USE	I
EXP0319006a	WXXICAL-04	MAP	3/19/10 19:21			1		USE	I
EXP0319007a	WXXICAL-05	MAP	3/19/10 19:51			1		USE	I
EXP0319008a	WXXICAL-06	MAP	3/19/10 20:20			1		USE	I
EXP0319009a	XIBLK02	MAP	3/19/10 20:50			1		USE	B
EXP0319010a	WXXICV	MAP	3/19/10 21:19			1		USE	C
EXP0319011a	XIBLK03	MAP	3/19/10 21:49			1		USE	B
EXP0319012a	WXXCRI	MAP	3/19/10 22:18			1		USE	C
EXP0319013a	247346004	MAP	3/19/10 22:48	955065	10-1911	2	LANL	USE	S
EXP0319014a	247346005	MAP	3/19/10 23:17	955065	10-1911	2	LANL	USE	S
EXP0319015a	247346006	MAP	3/19/10 23:47	955065	10-1911	2	LANL	USE	S
EXP0319016a	247346007	MAP	3/20/10 0:16	955065	10-1911	2	LANL	USE	S
EXP0319017a	247346008	MAP	3/20/10 0:46	955065	10-1911	2	LANL	USE	S
EXP0319018a	247358001	MAP	3/20/10 1:15	955065	10-1914	2	LANL	USE	S
EXP0319019a	247358002	MAP	3/20/10 1:45	955065	10-1914	2	LANL	USE	S
EXP0319020a	247358003	MAP	3/20/10 2:14	955065	10-1914	2	LANL	USE	S
EXP0319021a	247358004	MAP	3/20/10 2:44	955065	10-1914	2	LANL	USE	S
EXP0319022a	WXXCCV	MAP	3/20/10 3:13			1		USE	C
EXP0319023a	XIBLK04	MAP	3/20/10 3:43			1		USE	B
EXP0319024a	WXXCRI	MAP	3/20/10 4:12			1		USE	C
EXP0319025a	248259006	MAP	3/20/10 4:41	958286	10-2148	10	LANL	USE	S
EXP0319026a	1202055085	MAP	3/20/10 5:11	958286	10-2051	2	LANL	USE	S
EXP0319027a	XIBLK05	MAP	3/20/10 5:41			1		USE	B
EXP0319028a	1202049901	MAP	3/20/10 6:10	956045	Various	2	LANL	USE	S
EXP0319029a	1202049902	MAP	3/20/10 6:40	956045	Various	2	LANL	USE	S

EXP0319030a	247421002	MAP	3/20/10 7:09	956045	10-1920	2	LANL	USE	S
EXP0319031a	1202049903	MAP	3/20/10 7:38	956045	10-1920	2	LANL	USE	S
EXP0319032a	1202049904	MAP	3/20/10 8:08	956045	10-1920	2	LANL	USE	S
EXP0319033a	247421003	MAP	3/20/10 8:37	956045	10-1920	2	LANL	USE	S
EXP0319034a	WXXCCV	MAP	3/20/10 9:07			1		USE	C
EXP0319035a	XIBLK06	MAP	3/20/10 9:36			1		USE	B
EXP0319036a	WXXCRI	MAP	3/20/10 10:06			1		USE	C
EXP0319037a	247421004	MAP	3/20/10 10:35	956045	10-1920	2	LANL	USE	S
EXP0319038a	247421005	MAP	3/20/10 11:05	956045	10-1920	2	LANL	USE	S
EXP0319039a	247421006	MAP	3/20/10 11:34	956045	10-1920	2	LANL	USE	S
EXP0319040a	247421007	MAP	3/20/10 12:04	956045	10-1920	2	LANL	USE	S
EXP0319041a	247450002	MAP	3/20/10 12:33	956045	10-1937	2	LANL	USE	S
EXP0319042a	247450003	MAP	3/20/10 13:03	956045	10-1937	2	LANL	USE	S
EXP0319043a	247450004	MAP	3/20/10 13:32	956045	10-1937	2	LANL	USE	S
EXP0319044a	247450005	MAP	3/20/10 14:02	956045	10-1937	2	LANL	USE	S
EXP0319045a	247450006	MAP	3/20/10 14:31	956045	10-1937	2	LANL	USE	S
EXP0319046a	247450007	MAP	3/20/10 15:01	956045	10-1937	2	LANL	DUSE-RA	S
EXP0319047a	WXXCCV	MAP	3/20/10 15:30			1		USE	C
EXP0319048a	XIBLK07	MAP	3/20/10 16:00			1		USE	B
EXP0319049a	WXXCRI	MAP	3/20/10 16:30			1		USE	C
EXP0319050a	247450007	MAP	3/20/10 16:59	956045	10-1937	2	LANL	USE	S
EXP0319051a	247562002	MAP	3/20/10 17:29	956045	10-1950	2	LANL	USE	S
EXP0319052a	247562003	MAP	3/20/10 17:58	956045	10-1950	2	LANL	USE	S
EXP0319053a	247562004	MAP	3/20/10 18:28	956045	10-1950	2	LANL	DUSE-RA	S
EXP0319054a	247562005	MAP	3/20/10 18:57	956045	10-1950	2	LANL	USE	S
EXP0319055a	247562006	MAP	3/20/10 19:27	956045	10-1950	2	LANL	USE	S
EXP0319056a	247562007	MAP	3/20/10 19:56	956045	10-1950	2	LANL	USE	S
EXP0319057a	247562008	MAP	3/20/10 20:26	956045	10-1950	2	LANL	USE	S
EXP0319058a	247562009	MAP	3/20/10 20:55	956045	10-1950	2	LANL	USE	S
EXP0319059a	WXXCCV	MAP	3/20/10 21:24			1		USE	C
EXP0319060a	XIBLK08	MAP	3/20/10 21:54			1		USE	B
EXP0319061a	WXXCRI	MAP	3/20/10 22:24			1		USE	C
EXP0319062a	1202049932	MAP	3/20/10 22:53	956053	Various	2	LANL	USE	S
EXP0319063a	1202049933	MAP	3/20/10 23:23	956053	Various	2	LANL	USE	S
EXP0319064a	247545001	MAP	3/20/10 23:52	956053	10-1964	2	LANL	USE	S
EXP0319065a	247545002	MAP	3/21/10 0:22	956053	10-1964	2	LANL	USE	S
EXP0319066a	247551001	MAP	3/21/10 0:51	956053	10-1969	2	LANL	USE	S

EXP0319067a	247551002	MAP	3/21/10 1:21	956053	10-1969	2	LANL	USE	S
EXP0319068a	247552002	MAP	3/21/10 1:50	956053	10-1970	2	LANL	USE	S
EXP0319069a	247556001	MAP	3/21/10 2:20	956053	10-1953	2	LANL	USE	S
EXP0319070a	1202049934	MAP	3/21/10 2:49	956053	10-1953	2	LANL	USE	S
EXP0319071a	1202049935	MAP	3/21/10 3:19	956053	10-1953	2	LANL	USE	S
EXP0319072a	WXCCV	MAP	3/21/10 3:48			1		USE	C
EXP0319073a	XIBLK09	MAP	3/21/10 4:18			1		USE	B
EXP0319074a	WXXCRI	MAP	3/21/10 4:47			1		USE	C
EXP0319075a	247556002	MAP	3/21/10 5:17	956053	10-1953	2	LANL	USE	S
EXP0319076a	247556003	MAP	3/21/10 5:46	956053	10-1953	2	LANL	USE	S
EXP0319077a	247556004	MAP	3/21/10 6:16	956053	10-1953	2	LANL	USE	S
EXP0319078a	247556005	MAP	3/21/10 6:45	956053	10-1953	2	LANL	USE	S
EXP0319079a	247565001	MAP	3/21/10 7:15	956053	10-1956	2	LANL	USE	S
EXP0319080a	247565002	MAP	3/21/10 7:44	956053	10-1956	2	LANL	USE	S
EXP0319081a	247565003	MAP	3/21/10 8:14	956053	10-1956	2	LANL	USE	S
EXP0319082a	247565004	MAP	3/21/10 8:43	956053	10-1956	2	LANL	USE	S
EXP0319083a	247565005	MAP	3/21/10 9:13	956053	10-1956	2	LANL	USE	S
EXP0319084a	247565006	MAP	3/21/10 9:42	956053	10-1956	2	LANL	USE	S
EXP0319085a	WXCCV	MAP	3/21/10 10:12			1		USE	C
EXP0319086a	XIBLK10	MAP	3/21/10 10:41			1		USE	B
EXP0319087a	WXXCRI	MAP	3/21/10 11:11			1		USE	C
EXP0319088a	247565007	MAP	3/21/10 11:40	956053	10-1956	2	LANL	DUSE-RA	S
EXP0319089a	247565008	MAP	3/21/10 12:10	956053	10-1956	2	LANL	DUSE-RA	S
EXP0319090a	247565009	MAP	3/21/10 12:40	956053	10-1956	2	LANL	DUSE-RA	S
EXP0319091a	247565010	MAP	3/21/10 13:09	956053	10-1956	2	LANL	DUSE-RA	S
EXP0319092a	247562004	MAP	3/21/10 13:39	956045	10-1950	2	LANL	DUSE-RA	S
EXP0319093a	1202035690	MAP	3/21/10 14:08	955087	Various	2	LANL	DUSE-RA	S
EXP0319094a	1202035691	MAP	3/21/10 14:38	955087	Various	2	LANL	DUSE-RA	S
EXP0319095a	246434002	MAP	3/21/10 15:07	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319096a	1202035692	MAP	3/21/10 15:37	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319097a	1202035693	MAP	3/21/10 16:06	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319098a	WXCCV	MAP	3/21/10 16:36			1		DUSE	C
EXP0319099a	XIBLK11	MAP	3/21/10 17:05			1		DUSE	B
EXP0319100a	WXXCRI	MAP	3/21/10 17:35			1		DUSE	C
EXP0319101a	246434003	MAP	3/21/10 18:04	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319102a	246434004	MAP	3/21/10 18:34	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319103a	246434005	MAP	3/21/10 19:03	955087	10-1620	2	LANL	DUSE-RA	S

EXP0319104a	246434006	MAP	3/21/10 19:33	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319105a	246434007	MAP	3/21/10 20:02	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319106a	246434008	MAP	3/21/10 20:32	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319107a	246434009	MAP	3/21/10 21:01	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319108a	246434010	MAP	3/21/10 21:31	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319109a	246434011	MAP	3/21/10 22:00	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319110a	246434012	MAP	3/21/10 22:30	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319111a	WXXCCV	MAP	3/21/10 22:59			1		DUSE	C
EXP0319112a	XIBLK12	MAP	3/21/10 23:29			1		DUSE	B
EXP0319113a	WXXCRI	MAP	3/21/10 23:58			1		DUSE	C
EXP0319114a	246434013	MAP	3/22/10 0:28	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319115a	246434014	MAP	3/22/10 0:57	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319116a	246434015	MAP	3/22/10 1:27	955087	10-1620	2	LANL	DUSE-RA	S
EXP0319117a	246442002	MAP	3/22/10 1:56	955087	10-1623	2	LANL	DUSE-RA	S
EXP0319118a	246442003	MAP	3/22/10 2:26	955087	10-1623	2	LANL	DUSE-RA	S
EXP0319119a	246442004	MAP	3/22/10 2:55	955087	10-1623	2	LANL	DUSE-RA	S
EXP0319120a	246442005	MAP	3/22/10 3:25	955087	10-1623	2	LANL	DUSE-RA	S
EXP0319121a	246442006	MAP	3/22/10 3:54	955087	10-1623	2	LANL	DUSE-RA	S
EXP0319122a	WXXCCV	MAP	3/22/10 4:24			1		DUSE	C
EXP0319123a	XIBLK13	MAP	3/22/10 4:53			1		DUSE	B
EXP0319124a	WXXCRI	MAP	3/22/10 5:23			1		DUSE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS #1

Date: 03/23/10
 Extr. Injection Volume: 50uL
 Sequence Number: 032310expA
 Initial Calibration Date: 03/23/10
 Method: SW846 8321A-Modified
 Int. Std.: UXX100309-01.2
 Mobile Phase Lot#: 1289327, 1281642
 Standard-Samp Reagent Lot#: 1283379, 1284736
 Reviewed BY: *Amc*
 Date: *03/24/10*
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100323-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0323001a	XIBLK01	MAP	3/23/10 9:08			1		USE	B
EXP0323002a	XIBLK01	MAP	3/23/10 9:38			1		USE	B
EXP0323003a	WXXICAL-01	MAP	3/23/10 10:08			1		USE	I
EXP0323004a	WXXICAL-02	MAP	3/23/10 10:37			1		USE	I
EXP0323005a	WXXICAL-03	MAP	3/23/10 11:07			1		USE	I
EXP0323006a	WXXICAL-04	MAP	3/23/10 11:36			1		USE	I
EXP0323007a	WXXICAL-05	MAP	3/23/10 12:05			1		USE	I
EXP0323008a	WXXICAL-06	MAP	3/23/10 12:35			1		USE	I
EXP0323009a	XIBLK02	MAP	3/23/10 13:04			1		USE	B
EXP0323010a	WXXICV	MAP	3/23/10 13:34			1		USE	C
EXP0323011a	XIBLK03	MAP	3/23/10 14:03			1		USE	B
EXP0323012a	WXXCRI	MAP	3/23/10 14:33			1		USE	C
EXP0323013a	247562004	MAP	3/23/10 15:02	956045	10-1950	2	LANL	USE	S
EXP0323014a	247565007	MAP	3/23/10 15:32	956053	10-1956	2	LANL	USE	S
EXP0323015a	247565008	MAP	3/23/10 16:01	956053	10-1956	2	LANL	USE	S
EXP0323016a	247565009	MAP	3/23/10 16:31	956053	10-1956	2	LANL	USE	S
EXP0323017a	247565010	MAP	3/23/10 17:00	956053	10-1956	2	LANL	USE	S
EXP0323018a	1202035690	MAP	3/23/10 17:30	950087	Various	2	LANL	USE	S
EXP0323019a	1202035691	MAP	3/23/10 17:59	950087	Various	2	LANL	USE	S
EXP0323020a	246434002	MAP	3/23/10 18:29	950087	10-1620	2	LANL	USE	S
EXP0323021a	1202035692	MAP	3/23/10 18:58	950087	10-1620	2	LANL	USE	S
EXP0323022a	1202035693	MAP	3/23/10 19:28	950087	10-1620	2	LANL	USE	S
EXP0323023a	WXXCCV	MAP	3/23/10 19:57			1		USE	C
EXP0323024a	XIBLK04	MAP	3/23/10 20:27			1		USE	B
EXP0323025a	WXXCRI	MAP	3/23/10 20:56			1		USE	C
EXP0323026a	246434003	MAP	3/23/10 21:26	950087	10-1620	2	LANL	USE	S
EXP0323027a	246434004	MAP	3/23/10 21:55	950087	10-1620	2	LANL	USE	S
EXP0323028a	246434005	MAP	3/23/10 22:25	950087	10-1620	2	LANL	USE	S
EXP0323029a	246434006	MAP	3/23/10 22:54	950087	10-1620	2	LANL	USE	S

EXP0323030a	246434007	MAP	3/23/10 23:24	950087	10-1620	2	LANL	USE	S
EXP0323031a	246434008	MAP	3/23/10 23:53	950087	10-1620	2	LANL	USE	S
EXP0323032a	246434009	MAP	3/24/10 0:23	950087	10-1620	2	LANL	USE	S
EXP0323033a	246434010	MAP	3/24/10 0:52	950087	10-1620	2	LANL	USE	S
EXP0323034a	246434011	MAP	3/24/10 1:22	950087	10-1620	2	LANL	USE	S
EXP0323035a	246434012	MAP	3/24/10 1:51	950087	10-1620	2	LANL	USE	S
EXP0323036a	WXXCCV	MAP	3/24/10 2:21			1		USE	C
EXP0323037a	XIBLK05	MAP	3/24/10 2:50			1		USE	B
EXP0323038a	WXXCRI	MAP	3/24/10 3:20			1		USE	C
EXP0323039a	246434013	MAP	3/24/10 3:49	950087	10-1620	2	LANL	USE	S
EXP0323040a	246434014	MAP	3/24/10 4:19	950087	10-1620	2	LANL	USE	S
EXP0323041a	246434015	MAP	3/24/10 4:48	950087	10-1620	2	LANL	USE	S
EXP0323042a	246442002	MAP	3/24/10 5:18	950087	10-1623	2	LANL	USE	S
EXP0323043a	246442003	MAP	3/24/10 5:47	950087	10-1623	2	LANL	USE	S
EXP0323044a	246442004	MAP	3/24/10 6:17	950087	10-1623	2	LANL	USE	S
EXP0323045a	246442005	MAP	3/24/10 6:46	950087	10-1623	2	LANL	USE	S
EXP0323046a	246442006	MAP	3/24/10 7:15	950087	10-1623	2	LANL	USE	S
EXP0323047a	WXXCCV	MAP	3/24/10 7:45			1		USE	C
EXP0323048a	XIBLK06	MAP	3/24/10 8:15			1		USE	B
EXP0323049a	WXXCRI	MAP	3/24/10 8:44			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/16/10
 Extr. Injection Volume: 10ul
 Sequence Number: 031610exs
 Initial Calibration Date: 031610
 Method: 8321A-Modified
 Int. Std.: N/A
 Mobile Phase Lot#: 1268566, 1268568
 Standard-Samp Reagent Lot#: 1274562, 1261217
 Reviewed By: *Amc*
 Date: 03/16/10
 SOP: GL-OA-E-056 Rev.12
 Alt Check Std. ID: WXX100316-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03160001.wiff	XIBLK01	LER	3/16/2010 8:17			1		USE	B
EXS03160002.wiff	XIBLK01	LER	3/16/2010 8:33			1		USE	B
EXS03160003.wiff	WXXICAL-19	LER	3/16/2010 8:49			1		USE	I
EXS03160004.wiff	WXXICAL-20	LER	3/16/2010 9:04			1		USE	I
EXS03160005.wiff	WXXICAL-21	LER	3/16/2010 9:20			1		USE	I
EXS03160006.wiff	WXXICAL-22	LER	3/16/2010 9:36			1		USE	I
EXS03160007.wiff	WXXICAL-23	LER	3/16/2010 9:52			1		USE	I
EXS03160008.wiff	WXXICAL-24	LER	3/16/2010 10:07			1		USE	I
EXS03160009.wiff	WXXICAL-25	LER	3/16/2010 10:23			1		USE	I
EXS03160010.wiff	XIBLK02	LER	3/16/2010 10:39			1		USE	B
EXS03160011.wiff	WXXICV	LER	3/16/2010 10:54			1		USE	C
EXS03160012.wiff	XIBLK03	LER	3/16/2010 11:10			1		USE	B
EXS03160013.wiff	WXXCRI	LER	3/16/2010 11:26			1		USE	C
EXS03160014.wiff	1202049932	LER	3/16/2010 11:41	956053	VARIOUS	2	LANL	USE	S
EXS03160015.wiff	1202049933	LER	3/16/2010 11:57	956053	VARIOUS	2	LANL	USE	S
EXS03160016.wiff	247545001	LER	3/16/2010 12:13	956053	10-1964	2	LANL	USE	S
EXS03160017.wiff	247545002	LER	3/16/2010 12:29	956053	10-1964	2	LANL	USE	S
EXS03160018.wiff	247551001	LER	3/16/2010 12:44	956053	10-1969	2	LANL	USE	S
EXS03160019.wiff	247551002	LER	3/16/2010 13:00	956053	10-1969	2	LANL	USE	S
EXS03160020.wiff	247552002	LER	3/16/2010 13:16	956053	10-1970	2	LANL	USE	S
EXS03160021.wiff	247556001	LER	3/16/2010 13:31	956053	10-1953	2	LANL	USE	S
EXS03160022.wiff	1202049934	LER	3/16/2010 13:47	956053	10-1953	2	LANL	USE	S
EXS03160023.wiff	1202049935	LER	3/16/2010 14:03	956053	10-1953	2	LANL	USE	S
EXS03160024.wiff	WXXCCV	LER	3/16/2010 14:18			1		USE	C
EXS03160025.wiff	XIBLK04	LER	3/16/2010 14:34			1		USE	B
EXS03160026.wiff	WXXCRI	LER	3/16/2010 14:50			1		USE	C
EXS03160027.wiff	247556002	LER	3/16/2010 15:06	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160028.wiff	247556003	LER	3/16/2010 15:21	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160029.wiff	247556004	LER	3/16/2010 15:37	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160030.wiff	247556005	LER	3/16/2010 15:53	956053	10-1953	2	LANL	DUSE-RA	S

EXS03160031.wiff	247555001	LER	3/16/2010 16:08	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160032.wiff	247555002	LER	3/16/2010 16:24	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160033.wiff	247555003	LER	3/16/2010 16:40	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160034.wiff	247555004	LER	3/16/2010 16:56	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160035.wiff	247555005	LER	3/16/2010 17:11	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160036.wiff	247555006	LER	3/16/2010 17:27	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160037.wiff	WXXCCV	LER	3/16/2010 17:43			1		DUSE	C
EXS03160038.wiff	XIBLK05	LER	3/16/2010 17:58			1		DUSE	B
EXS03160039.wiff	WXXCRI	LER	3/16/2010 18:14			1		DUSE	C
EXS03160040.wiff	247555007	LER	3/16/2010 18:30	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160041.wiff	247555008	LER	3/16/2010 18:45	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160042.wiff	247555009	LER	3/16/2010 19:01	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160043.wiff	247555010	LER	3/16/2010 19:17	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160044.wiff	XIBLK06	LER	3/16/2010 19:33			1		DUSE-RA	B
EXS03160045.wiff	1202055047	LER	3/16/2010 19:48	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160046.wiff	1202055048	LER	3/16/2010 20:04	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160047.wiff	248059002	LER	3/16/2010 20:20	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160048.wiff	248059003	LER	3/16/2010 20:36	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160049.wiff	248059004	LER	3/16/2010 20:51	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160050.wiff	WXXCCV	LER	3/16/2010 21:07			1		USE	C
EXS03160051.wiff	XIBLK07	LER	3/16/2010 21:23			1		USE	B
EXS03160052.wiff	WXXCRI	LER	3/16/2010 21:38			1		USE	C
EXS03160053.wiff	248059005	LER	3/16/2010 21:54	958273	10-2082	2	LANL	USE	S
EXS03160054.wiff	248059006	LER	3/16/2010 22:10	958273	10-2082	2	LANL	USE	S
EXS03160055.wiff	248059007	LER	3/16/2010 22:26	958273	10-2082	2	LANL	USE	S
EXS03160056.wiff	248059008	LER	3/16/2010 22:41	958273	10-2082	2	LANL	USE	S
EXS03160057.wiff	248059009	LER	3/16/2010 22:57	958273	10-2082	2	LANL	USE	S
EXS03160058.wiff	248060003	LER	3/16/2010 23:13	958273	10-2080	2	LANL	USE	S
EXS03160059.wiff	248060004	LER	3/16/2010 23:28	958273	10-2080	2	LANL	USE	S
EXS03160060.wiff	248060005	LER	3/16/2010 23:44	958273	10-2080	2	LANL	USE	S
EXS03160061.wiff	248060006	LER	3/17/2010 0:00	958273	10-2080	2	LANL	USE	S
EXS03160062.wiff	WXXCCV	LER	3/17/2010 0:16			1		USE	C
EXS03160063.wiff	XIBLK08	LER	3/17/2010 0:31			1		USE	B
EXS03160064.wiff	WXXCRI	LER	3/17/2010 0:47			1		USE	C
EXS03160065.wiff	248064001	LER	3/17/2010 1:03	958273	10-2085	2	LANL	USE	S
EXS03160066.wiff	1202055049	LER	3/17/2010 1:18	958273	10-2085	2	LANL	USE	S
EXS03160067.wiff	1202055050	LER	3/17/2010 1:34	958273	10-2085	2	LANL	USE	S

EXS03160068.wiff	248064002	LER	3/17/2010 1:50	958273	10-2085	2	LANL	USE	S
EXS03160069.wiff	248064003	LER	3/17/2010 2:06	958273	10-2085	2	LANL	USE	S
EXS03160070.wiff	248064004	LER	3/17/2010 2:21	958273	10-2085	2	LANL	USE	S
EXS03160071.wiff	248064005	LER	3/17/2010 2:37	958273	10-2085	2	LANL	USE	S
EXS03160072.wiff	248064006	LER	3/17/2010 2:53	958273	10-2085	2	LANL	USE	S
EXS03160073.wiff	248064007	LER	3/17/2010 3:08	958273	10-2085	2	LANL	USE	S
EXS03160074.wiff	248064008	LER	3/17/2010 3:24	958273	10-2085	2	LANL	USE	S
EXS03160075.wiff	WXXCCV	LER	3/17/2010 3:40			1		USE	C
EXS03160076.wiff	XIBLK09	LER	3/17/2010 3:55			1		USE	B
EXS03160077.wiff	WXXCRI	LER	3/17/2010 4:11			1		USE	C
EXS03160078.wiff	1202057490	LER	3/17/2010 4:27	959334	VARIOUS	2	LANL	USE	S
EXS03160079.wiff	1202057491	LER	3/17/2010 4:43	959334	VARIOUS	2	LANL	USE	S
EXS03160080.wiff	248202001	LER	3/17/2010 4:58	959334	10-2124	2	LANL	USE	S
EXS03160081.wiff	248202002	LER	3/17/2010 5:14	959334	10-2124	2	LANL	USE	S
EXS03160082.wiff	248203002	LER	3/17/2010 5:30	959334	10-2125	2	LANL	USE	S
EXS03160083.wiff	248234001	LER	3/17/2010 5:45	959334	10-2131	2	LANL	USE	S
EXS03160084.wiff	248234002	LER	3/17/2010 6:01	959334	10-2131	2	LANL	USE	S
EXS03160085.wiff	248234003	LER	3/17/2010 6:17	959334	10-2131	2	LANL	USE	S
EXS03160086.wiff	248234004	LER	3/17/2010 6:32	959334	10-2131	2	LANL	USE	S
EXS03160087.wiff	248234005	LER	3/17/2010 6:48	959334	10-2131	2	LANL	USE	S
EXS03160088.wiff	WXXCCV	LER	3/17/2010 7:04			1		USE	C
EXS03160089.wiff	XIBLK10	LER	3/17/2010 7:20			1		USE	B
EXS03160090.wiff	WXXCRI	LER	3/17/2010 7:35			1		USE	C
EXS03160091.wiff	248234006	LER	3/17/2010 7:51	959334	10-2131	2	LANL	USE	S
EXS03160092.wiff	248234007	LER	3/17/2010 8:07	959334	10-2131	2	LANL	USE	S
EXS03160093.wiff	248240001	LER	3/17/2010 8:22	959334	10-2134	2	LANL	USE	S
EXS03160094.wiff	1202057492	LER	3/17/2010 8:38	959334	10-2134	2	LANL	USE	S
EXS03160095.wiff	1202057493	LER	3/17/2010 8:54	959334	10-2134	2	LANL	USE	S
EXS03160096.wiff	248240002	LER	3/17/2010 9:10	959334	10-2134	2	LANL	USE	S
EXS03160097.wiff	248240003	LER	3/17/2010 9:25	959334	10-2134	2	LANL	USE	S
EXS03160098.wiff	248240004	LER	3/17/2010 9:41	959334	10-2134	2	LANL	USE	S
EXS03160099.wiff	248240005	LER	3/17/2010 9:57	959334	10-2134	2	LANL	USE	S
EXS03160100.wiff	248240006	LER	3/17/2010 10:12	959334	10-2134	2	LANL	USE	S
EXS03160101.wiff	WXXCCV	LER	3/17/2010 10:28			1		USE	C
EXS03160102.wiff	XIBLK11	LER	3/17/2010 10:44			1		USE	B
EXS03160103.wiff	WXXCRI	LER	3/17/2010 10:59			1		USE	C
EXS03160104.wiff	248240007	LER	3/17/2010 11:15	959334	10-2134	2	LANL	USE	S

EXS03160105.wiff	248240008	LER	3/17/2010 11:31	959334	10-2134	2	LANL	USE	S
EXS03160106.wiff	248240009	LER	3/17/2010 11:47	959334	10-2134	2	LANL	USE	S
EXS03160107.wiff	248240010	LER	3/17/2010 12:02	959334	10-2134	2	LANL	USE	S
EXS03160108.wiff	WXXCCV	LER	3/17/2010 12:18			1		USE	C
EXS03160109.wiff	XIBLK12	LER	3/17/2010 12:34			1		USE	B
EXS03160110.wiff	WXXCRI	LER	3/17/2010 12:49			1		USE	C
EXS03160111.wiff	247556002	LER	3/17/2010 13:05	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160112.wiff	247556003	LER	3/17/2010 13:21	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160113.wiff	247556004	LER	3/17/2010 13:37	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160114.wiff	247556005	LER	3/17/2010 13:52	956053	10-1953	2	LANL	DUSE-RA	S
EXS03160115.wiff	247565001	LER	3/17/2010 14:08	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160116.wiff	247565002	LER	3/17/2010 14:24	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160117.wiff	247565003	LER	3/17/2010 14:39	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160118.wiff	247565004	LER	3/17/2010 14:55	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160119.wiff	247565005	LER	3/17/2010 15:11	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160120.wiff	247565006	LER	3/17/2010 15:27	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160121.wiff	WXXCCV	LER	3/17/2010 15:42			1		DUSE	C
EXS03160122.wiff	XIBLK13	LER	3/17/2010 15:58			1		DUSE	B
EXS03160123.wiff	WXXCRI	LER	3/17/2010 16:14			1		DUSE	C
EXS03160124.wiff	247565007	LER	3/17/2010 16:29	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160125.wiff	247565008	LER	3/17/2010 16:45	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160126.wiff	247565009	LER	3/17/2010 17:01	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160127.wiff	247565010	LER	3/17/2010 17:17	956053	10-1956	2	LANL	DUSE-RA	S
EXS03160128.wiff	XIBLK14	LER	3/17/2010 17:32			1		DUSE-RA	B
EXS03160129.wiff	1202055047	LER	3/17/2010 17:48	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160130.wiff	1202055048	LER	3/17/2010 18:04	958273	VARIOUS	2	LANL	DUSE-RA	S
EXS03160131.wiff	248059002	LER	3/17/2010 18:19	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160132.wiff	248059003	LER	3/17/2010 18:35	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160133.wiff	248059004	LER	3/17/2010 18:51	958273	10-2082	2	LANL	DUSE-RA	S
EXS03160134.wiff	WXXCCV	LER	3/17/2010 19:07			1		USE	C
EXS03160135.wiff	XIBLK15	LER	3/17/2010 19:22			1		USE	B
EXS03160136.wiff	WXXCRI	LER	3/17/2010 19:38			1		USE	C
EXS03160137.wiff	1202047270	LER	3/17/2010 19:54	954941	10-1886	2	LANL	USE	S
EXS03160138.wiff	1202047271	LER	3/17/2010 20:09	954941	10-1886	2	LANL	USE	S
EXS03160139.wiff	247261003	LER	3/17/2010 20:25	954941	10-1886	2	LANL	USE	S
EXS03160140.wiff	1202047272	LER	3/17/2010 20:41	954941	10-1886	2	LANL	USE	S
EXS03160141.wiff	1202047273	LER	3/17/2010 20:57	954941	10-1886	2	LANL	USE	S

EXS03160142.wiff	LER	3/17/2010 21:12	SCREEN	SOLID	1	USE	C
EXS03160143.wiff	LER	3/17/2010 21:28			1	USE	B
EXS03160144.wiff	LER	3/17/2010 21:44			1	USE	C
EXS03160145.wiff	LER	3/17/2010 21:59			2	USE	S
EXS03160146.wiff	LER	3/17/2010 22:15			1	USE	B
EXS03160147.wiff	LER	3/17/2010 22:31	958640	VARIOUS	2	USE	S
EXS03160148.wiff	LER	3/17/2010 22:46	958640	VARIOUS	2	USE	S
EXS03160149.wiff	LER	3/17/2010 23:02	958640	10-2097	2	USE	S
EXS03160150.wiff	LER	3/17/2010 23:18	958640	10-2097	2	USE	S
EXS03160151.wiff	LER	3/17/2010 23:34	958640	10-2097	2	USE	S
EXS03160152.wiff	LER	3/17/2010 23:49	958640	10-2097	2	USE	S
EXS03160153.wiff	LER	3/18/2010 0:05	958640	10-2119	2	USE	S
EXS03160154.wiff	LER	3/18/2010 0:21	958640	10-2119	2	USE	S
EXS03160155.wiff	LER	3/18/2010 0:36			1	USE	C
EXS03160156.wiff	LER	3/18/2010 0:52			1	USE	B
EXS03160157.wiff	LER	3/18/2010 1:08			1	USE	C
EXS03160158.wiff	LER	3/18/2010 1:23	958640	10-2121	2	USE	S
EXS03160159.wiff	LER	3/18/2010 1:39	958640	10-2121	2	USE	S
EXS03160160.wiff	LER	3/18/2010 1:55	958640	10-2121	2	USE	S
EXS03160161.wiff	LER	3/18/2010 2:11	958640	10-2121	2	USE	S
EXS03160162.wiff	LER	3/18/2010 2:26	958640	10-2121	2	USE	S
EXS03160163.wiff	LER	3/18/2010 2:42	958640	10-2121	2	USE	S
EXS03160164.wiff	LER	3/18/2010 2:58	958640	10-2121	2	USE	S
EXS03160165.wiff	LER	3/18/2010 3:13	958640	10-2121	2	USE	S
EXS03160166.wiff	LER	3/18/2010 3:29	958640	10-2121	2	USE	S
EXS03160167.wiff	LER	3/18/2010 3:45	958640	10-2121	2	USE	S
EXS03160168.wiff	LER	3/18/2010 4:00			1	USE	C
EXS03160169.wiff	LER	3/18/2010 4:16			1	USE	B
EXS03160170.wiff	LER	3/18/2010 4:32			1	USE	C
EXS03160171.wiff	LER	3/18/2010 4:48	958640	10-2121	2	USE	S
EXS03160172.wiff	LER	3/18/2010 5:03	958640	10-2121	2	USE	S
EXS03160173.wiff	LER	3/18/2010 5:19	958640	10-2121	2	USE	S
EXS03160174.wiff	LER	3/18/2010 5:35	958640	10-2121	2	USE	S
EXS03160175.wiff	LER	3/18/2010 5:50			1	USE	C
EXS03160176.wiff	LER	3/18/2010 6:06			1	USE	B
EXS03160177.wiff	LER	3/18/2010 6:22			1	USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMMS4

Date: 03/19/10
 Extr. Injection Volume: 10uL
 Sequence Number: 031910
 Initial Calibration Date: 031910

Method: 8321A-Modified

Int. Std.: N/A

Mobile Phase Lot#: 1268566, 1268568

Standard-Samp Reagent Lot#: 1274562, 1261217

Reviewed By: *hmc*

Date: 03/24/10

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100319-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03190001.wiff	XIBLK01	LER	3/19/2010 6:31			1		USE	B
EXS03190002.wiff	XIBLK01	LER	3/19/2010 6:47			1		USE	B
EXS03190003.wiff	WXXICAL-19	LER	3/19/2010 7:02			1		USE	I
EXS03190004.wiff	WXXICAL-20	LER	3/19/2010 7:18			1		USE	I
EXS03190005.wiff	WXXICAL-21	LER	3/19/2010 7:34			1		USE	I
EXS03190006.wiff	WXXICAL-22	LER	3/19/2010 7:49			1		USE	I
EXS03190007.wiff	WXXICAL-23	LER	3/19/2010 8:05			1		USE	I
EXS03190008.wiff	WXXICAL-24	LER	3/19/2010 8:21			1		USE	I
EXS03190009.wiff	WXXICAL-25	LER	3/19/2010 8:36			1		USE	I
EXS03190010.wiff	XIBLK02	LER	3/19/2010 8:52			1		USE	B
EXS03190011.wiff	WXXICV	LER	3/19/2010 9:08			1		USE	C
EXS03190012.wiff	XIBLK03	LER	3/19/2010 9:24			1		USE	B
EXS03190013.wiff	WXXCRI	LER	3/19/2010 9:39			1		USE	C
EXS03190014.wiff	247556002	LER	3/19/2010 9:55	956053	10-1953	2	LANL	USE	S
EXS03190015.wiff	247556003	LER	3/19/2010 10:11	956053	10-1953	2	LANL	USE	S
EXS03190016.wiff	247556004	LER	3/19/2010 10:26	956053	10-1953	2	LANL	USE	S
EXS03190017.wiff	247556005	LER	3/19/2010 10:42	956053	10-1953	2	LANL	USE	S
EXS03190018.wiff	247556001	LER	3/19/2010 10:58	956053	10-1956	2	LANL	USE	S
EXS03190019.wiff	247556002	LER	3/19/2010 11:14	956053	10-1956	2	LANL	USE	S
EXS03190020.wiff	247556003	LER	3/19/2010 11:29	956053	10-1956	2	LANL	USE	S
EXS03190021.wiff	247556004	LER	3/19/2010 11:45	956053	10-1956	2	LANL	USE	S
EXS03190022.wiff	247556005	LER	3/19/2010 12:01	956053	10-1956	2	LANL	USE	S
EXS03190023.wiff	247556006	LER	3/19/2010 12:16	956053	10-1956	2	LANL	USE	S
EXS03190024.wiff	WXXCCV	LER	3/19/2010 12:32			1		USE	C
EXS03190025.wiff	XIBLK04	LER	3/19/2010 12:48			1		USE	B
EXS03190026.wiff	WXXCRI	LER	3/19/2010 13:04			1		USE	C
EXS03190027.wiff	247556007	LER	3/19/2010 13:19	956053	10-1956	2	LANL	USE	S
EXS03190028.wiff	247556008	LER	3/19/2010 13:35	956053	10-1956	2	LANL	USE	S
EXS03190029.wiff	247556009	LER	3/19/2010 13:51	956053	10-1956	2	LANL	USE	S
EXS03190030.wiff	247556010	LER	3/19/2010 14:06	956053	10-1956	2	LANL	USE	S

EXS03190031.wiff	XIBLK05	LER	3/19/2010 14:22	958273	VARIOUS	1	LANL	USE
EXS03190032.wiff	1202055047	LER	3/19/2010 14:38	958273	VARIOUS	2	LANL	USE
EXS03190033.wiff	1202055048	LER	3/19/2010 14:54	958273	VARIOUS	2	LANL	USE
EXS03190034.wiff	248059002	LER	3/19/2010 15:09	958273	10-2082	2	LANL	USE
EXS03190035.wiff	248059003	LER	3/19/2010 15:25	958273	10-2082	2	LANL	USE
EXS03190036.wiff	248059004	LER	3/19/2010 15:41	958273	10-2082	2	LANL	USE
EXS03190037.wiff	WXXCCV	LER	3/19/2010 15:56			1		USE
EXS03190038.wiff	XIBLK06	LER	3/19/2010 16:12			1		USE
EXS03190039.wiff	WXXCRI	LER	3/19/2010 16:28			1		USE
EXS03190040.wiff	1202055924	LER	3/19/2010 16:43	958631	10-2116	2	LANL	USE
EXS03190041.wiff	1202055925	LER	3/19/2010 16:59	958631	10-2116	2	LANL	USE
EXS03190042.wiff	248165001	LER	3/19/2010 17:15	958631	10-2116	2	LANL	USE
EXS03190043.wiff	1202055926	LER	3/19/2010 17:31	958631	10-2116	2	LANL	USE
EXS03190044.wiff	1202055927	LER	3/19/2010 17:46	958631	10-2116	2	LANL	USE
EXS03190045.wiff	248165002	LER	3/19/2010 18:02	958631	10-2116	2	LANL	USE
EXS03190046.wiff	248165003	LER	3/19/2010 18:18	958631	10-2116	2	LANL	USE
EXS03190047.wiff	248165004	LER	3/19/2010 18:33	958631	10-2116	2	LANL	USE
EXS03190048.wiff	248165005	LER	3/19/2010 18:49	958631	10-2116	2	LANL	USE
EXS03190049.wiff	248165006	LER	3/19/2010 19:05	958631	10-2116	2	LANL	USE
EXS03190050.wiff	WXXCCV	LER	3/19/2010 19:20			1		USE
EXS03190051.wiff	XIBLK07	LER	3/19/2010 19:36			1		USE
EXS03190052.wiff	WXXCRI	LER	3/19/2010 19:52			1		USE
EXS03190053.wiff	248165007	LER	3/19/2010 20:07	958631	10-2116	2	LANL	USE
EXS03190054.wiff	248165008	LER	3/19/2010 20:23	958631	10-2116	2	LANL	USE
EXS03190055.wiff	248165009	LER	3/19/2010 20:39	958631	10-2116	2	LANL	USE
EXS03190056.wiff	248165010	LER	3/19/2010 20:55	958631	10-2116	2	LANL	USE
EXS03190057.wiff	248165011	LER	3/19/2010 21:10	958631	10-2116	2	LANL	USE
EXS03190058.wiff	248165012	LER	3/19/2010 21:26	958631	10-2116	2	LANL	USE
EXS03190059.wiff	248165013	LER	3/19/2010 21:42	958631	10-2116	2	LANL	USE
EXS03190060.wiff	248165014	LER	3/19/2010 21:57	958631	10-2116	2	LANL	USE
EXS03190061.wiff	248165015	LER	3/19/2010 22:13	958631	10-2116	2	LANL	USE
EXS03190062.wiff	248165016	LER	3/19/2010 22:29	958631	10-2116	2	LANL	USE
EXS03190063.wiff	WXXCCV	LER	3/19/2010 22:45			1		USE
EXS03190064.wiff	XIBLK08	LER	3/19/2010 23:00			1		USE
EXS03190065.wiff	WXXCRI	LER	3/19/2010 23:16			1		USE
EXS03190066.wiff	248165017	LER	3/19/2010 23:32	958631	10-2116	2	LANL	USE
EXS03190067.wiff	248165018	LER	3/19/2010 23:47	958631	10-2116	2	LANL	USE

EXS03190068.wiff	248165019	LER	3/20/2010 0:03	958631	10-2116	2	LANL	USE	S
EXS03190069.wiff	248165020	LER	3/20/2010 0:19	958631	10-2116	2	LANL	USE	S
EXS03190070.wiff	XIBLK09	LER	3/20/2010 0:35			1		USE	B
EXS03190071.wiff	1202057288	LER	3/20/2010 0:50	959257	10-2128	2	LANL	USE	S
EXS03190072.wiff	1202057289	LER	3/20/2010 1:06	959257	10-2128	2	LANL	USE	S
EXS03190073.wiff	248232001	LER	3/20/2010 1:22	959257	10-2128	2	LANL	USE	S
EXS03190074.wiff	1202057290	LER	3/20/2010 1:37	959257	10-2128	2	LANL	USE	S
EXS03190075.wiff	1202057291	LER	3/20/2010 1:53	959257	10-2128	2	LANL	USE	S
EXS03190076.wiff	WXXCCV	LER	3/20/2010 2:09			1		USE	C
EXS03190077.wiff	XIBLK10	LER	3/20/2010 2:24			1		USE	B
EXS03190078.wiff	WXXCRI	LER	3/20/2010 2:40			1		USE	C
EXS03190079.wiff	248232002	LER	3/20/2010 2:56	959257	10-2128	2	LANL	USE	S
EXS03190080.wiff	248232003	LER	3/20/2010 3:12	959257	10-2128	2	LANL	USE	S
EXS03190081.wiff	248232004	LER	3/20/2010 3:27	959257	10-2128	2	LANL	USE	S
EXS03190082.wiff	248232005	LER	3/20/2010 3:43	959257	10-2128	2	LANL	USE	S
EXS03190083.wiff	248232006	LER	3/20/2010 3:59	959257	10-2128	2	LANL	USE	S
EXS03190084.wiff	248232007	LER	3/20/2010 4:14	959257	10-2128	2	LANL	USE	S
EXS03190085.wiff	248232008	LER	3/20/2010 4:30	959257	10-2128	2	LANL	USE	S
EXS03190086.wiff	248232009	LER	3/20/2010 4:46	959257	10-2128	2	LANL	USE	S
EXS03190087.wiff	248232010	LER	3/20/2010 5:02	959257	10-2128	2	LANL	USE	S
EXS03190088.wiff	WXXCCV	LER	3/20/2010 5:17			1		USE	C
EXS03190089.wiff	XIBLK11	LER	3/20/2010 5:33			1		USE	B
EXS03190090.wiff	WXXCRI	LER	3/20/2010 5:49			1		USE	C
EXS03190091.wiff	248232011	LER	3/20/2010 6:04	959257	10-2128	2	LANL	USE	S
EXS03190092.wiff	248232012	LER	3/20/2010 6:20	959257	10-2128	2	LANL	USE	S
EXS03190093.wiff	248232013	LER	3/20/2010 6:36	959257	10-2128	2	LANL	USE	S
EXS03190094.wiff	248232014	LER	3/20/2010 6:52	959257	10-2128	2	LANL	USE	S
EXS03190095.wiff	248232015	LER	3/20/2010 7:07	959257	10-2128	2	LANL	USE	S
EXS03190096.wiff	248232016	LER	3/20/2010 7:23	959257	10-2128	2	LANL	USE	S
EXS03190097.wiff	248232017	LER	3/20/2010 7:39	959257	10-2128	2	LANL	USE	S
EXS03190098.wiff	248232018	LER	3/20/2010 7:54	959257	10-2128	2	LANL	USE	S
EXS03190099.wiff	248232019	LER	3/20/2010 8:10	959257	10-2128	2	LANL	USE	S
EXS03190100.wiff	248232020	LER	3/20/2010 8:26	959257	10-2128	2	LANL	USE	S
EXS03190101.wiff	WXXCCV	LER	3/20/2010 8:41			1		USE	C
EXS03190102.wiff	XIBLK12	LER	3/20/2010 8:57			1		USE	B
EXS03190103.wiff	WXXCRI	LER	3/20/2010 9:13			1		USE	C
EXS03190104.wiff	1202059816	LER	3/20/2010 9:29	960309	VARIOUS	2	LANL	USE	S

EXS03190105.wiff	1202059817	LER	3/20/2010 9:44	960309	VARIOUS	2	LANL	USE	S
EXS03190106.wiff	248389002	LER	3/20/2010 10:00	960309	10-2165	2	LANL	USE	S
EXS03190107.wiff	248389003	LER	3/20/2010 10:16	960309	10-2165	2	LANL	USE	S
EXS03190108.wiff	248403002	LER	3/20/2010 10:31	960309	10-2187	2	LANL	USE	S
EXS03190109.wiff	1202059818	LER	3/20/2010 10:47	960309	10-2187	2	LANL	USE	S
EXS03190110.wiff	1202059819	LER	3/20/2010 11:03	960309	10-2187	2	LANL	USE	S
EXS03190111.wiff	248403003	LER	3/20/2010 11:19	960309	10-2187	2	LANL	USE	S
EXS03190112.wiff	248403004	LER	3/20/2010 11:34	960309	10-2187	2	LANL	USE	S
EXS03190113.wiff	248403005	LER	3/20/2010 11:50	960309	10-2187	2	LANL	USE	S
EXS03190114.wiff	WXXCCV	LER	3/20/2010 12:06			1		USE	C
EXS03190115.wiff	XIBLK13	LER	3/20/2010 12:22			1		USE	B
EXS03190116.wiff	WXXCRI	LER	3/20/2010 12:37			1		USE	C
EXS03190117.wiff	248403006	LER	3/20/2010 12:53	960309	10-2187	2	LANL	USE	S
EXS03190118.wiff	248403007	LER	3/20/2010 13:09	960309	10-2187	2	LANL	USE	S
EXS03190119.wiff	248403008	LER	3/20/2010 13:25	960309	10-2187	2	LANL	USE	S
EXS03190120.wiff	248403009	LER	3/20/2010 13:40	960309	10-2187	2	LANL	USE	S
EXS03190121.wiff	248403010	LER	3/20/2010 13:56	960309	10-2187	2	LANL	USE	S
EXS03190122.wiff	248403011	LER	3/20/2010 14:12	960309	10-2187	2	LANL	USE	S
EXS03190123.wiff	248403012	LER	3/20/2010 14:28	960309	10-2187	2	LANL	USE	S
EXS03190124.wiff	248403013	LER	3/20/2010 14:43	960309	10-2187	2	LANL	USE	S
EXS03190125.wiff	248403014	LER	3/20/2010 14:59	960309	10-2187	2	LANL	USE	S
EXS03190126.wiff	248403015	LER	3/20/2010 15:15	960309	10-2187	2	LANL	USE	S
EXS03190127.wiff	WXXCCV	LER	3/20/2010 15:30			1		USE	C
EXS03190128.wiff	XIBLK14	LER	3/20/2010 15:46			1		USE	B
EXS03190129.wiff	WXXCRI	LER	3/20/2010 16:02			1		USE	C
EXS03190130.wiff	248403016	LER	3/20/2010 16:18	960309	10-2187	2	LANL	USE	S
EXS03190131.wiff	248403017	LER	3/20/2010 16:34	960309	10-2187	2	LANL	USE	S
EXS03190132.wiff	248403018	LER	3/20/2010 16:49	960309	10-2187	2	LANL	USE	S
EXS03190133.wiff	248403019	LER	3/20/2010 17:05	SCREEN	SOLID	2	O2SI	USE	S
EXS03190134.wiff	UXX100223-02.3	LER	3/20/2010 17:21					USE	S
EXS03190135.wiff	XIBLK15	LER	3/20/2010 17:37			1		USE	B
EXS03190136.wiff	248403008	LER	3/20/2010 17:52	960309	10-2187	20	LANL	USE	S
EXS03190137.wiff	XIBLK16	LER	3/20/2010 18:08			1		USE	B
EXS03190138.wiff	248403009	LER	3/20/2010 18:24	960309	10-2187	2	LANL	USE	S
EXS03190139.wiff	WXXCCV	LER	3/20/2010 18:40			1		USE	C
EXS03190140.wiff	XIBLK17	LER	3/20/2010 18:56			1		USE	B
EXS03190141.wiff	WXXCRI	LER	3/20/2010 19:12			1		USE	C

dan 3/18/10

File: "EX503160022.will"

Sample Name: "1202049324" Sample ID: "956053121" File: "EX503160022.will"

Peak Name: "3S-Dinitrofluorene" Mass(es): "182.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 3/16/2010 ng/mL

Acq. Date: 1/17/12 PM

Acq. Time: 1:47:32 PM

Modified: Yes

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: 8.13 min

Use Relative RT: No

Int. Type: Valley

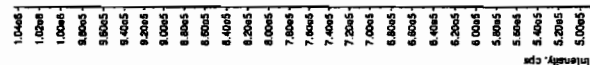
Retention Time: 8.13 min

Area: 4.16e+006 counts

Height: 1031257.568 cps

Start Time: 8.07 min

End Time: 8.26 min



4/11/10 03/22/10

File: "EX503160022.will"

Sample Name: "1202049331" Sample ID: "956053121" File: "EX503160022.will"

Peak Name: "TA1B" Mass(es): "257.2204.9 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 3/16/2010 ng/mL

Acq. Date: 1/17/12 PM

Acq. Time: 1:47:32 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: 33.0 sec

Expected RT: 5.83 min

Use Relative RT: No

Int. Type: Valley

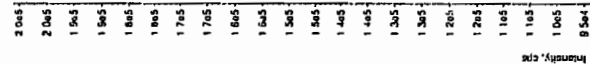
Retention Time: 5.83 min

Area: 3.75e+005 counts

Height: 201234.100 cps

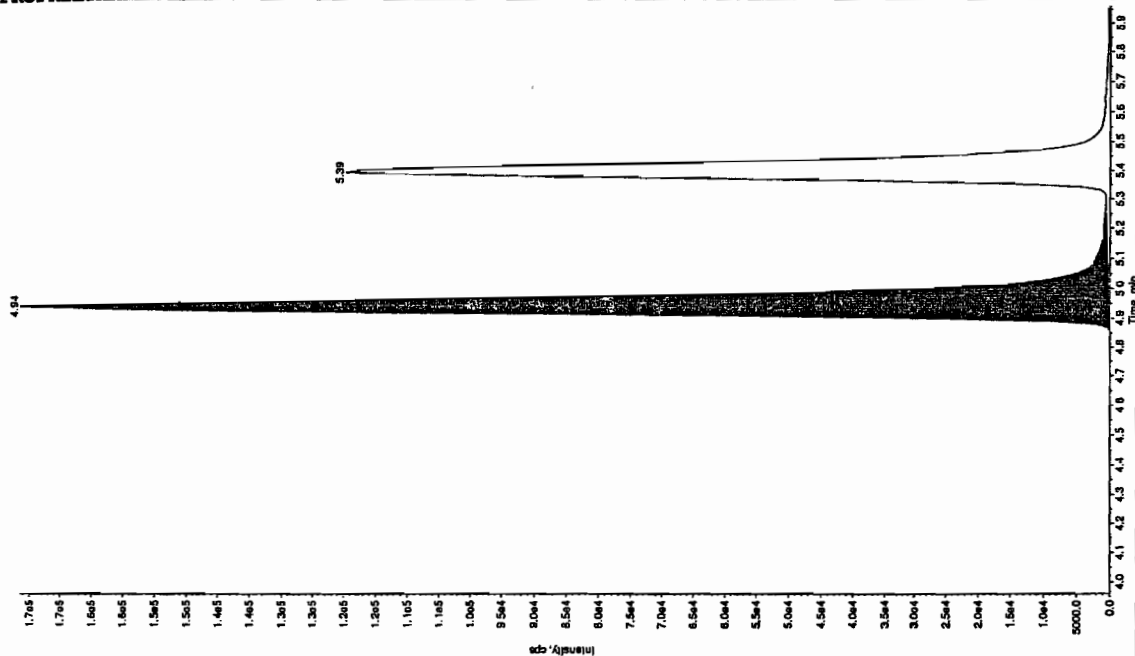
Start Time: 5.75 min

End Time: 5.99 min



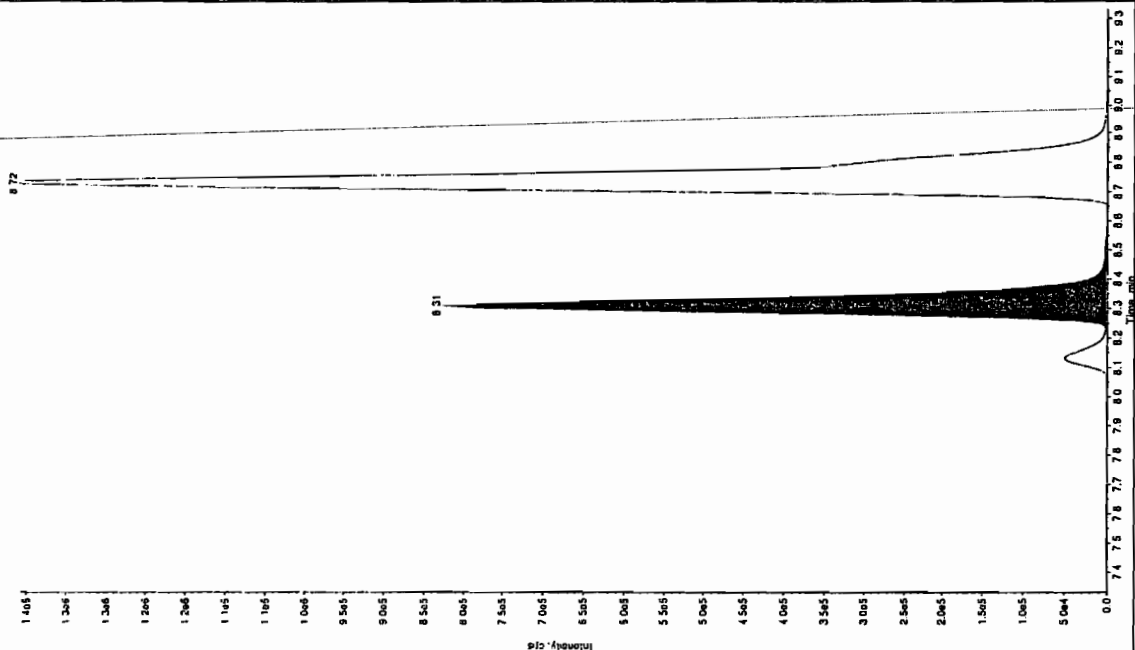
Sample Name: "1202049934" Sample ID: "95605321ER" File: "EX503160022.wif"
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 440. ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 1:47:32 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 450.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 4.96 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 4.94 min
 Area: 7.13e+005 counts
 Height: 171100.537 cps
 Start Time: 4.52 min
 End Time: 5.25 min



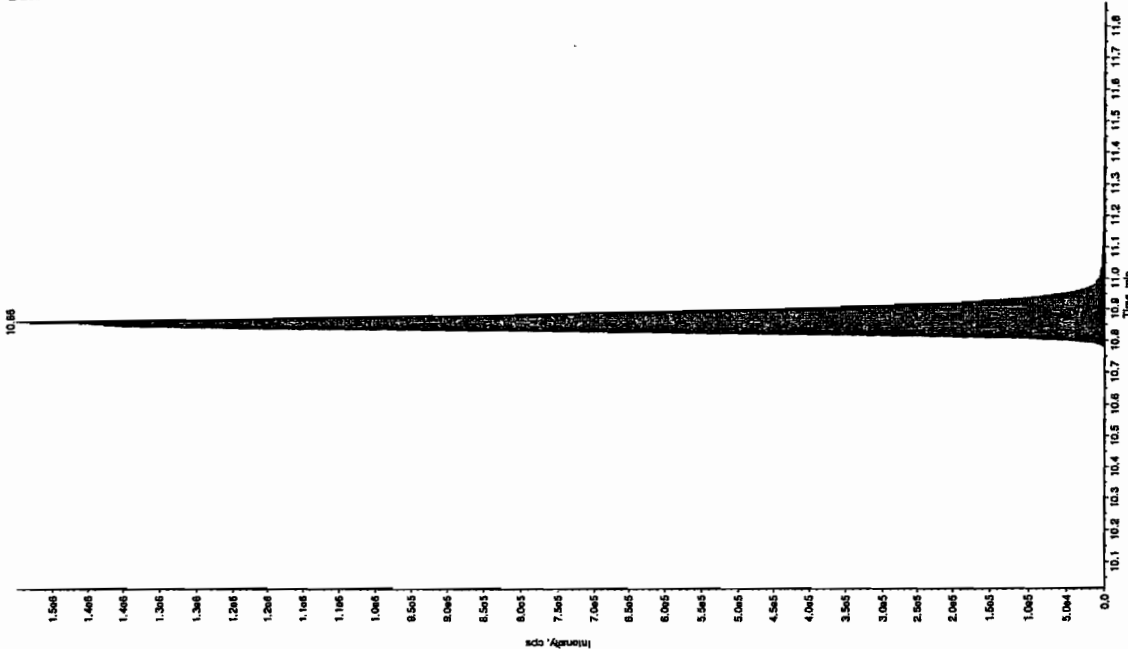
Sample Name: "1202049934" Sample ID: "95605321ER" File: "EX503160022.wif"
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1151.9 amu"
 Comment: "LCX832125" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A
 Calculated Conc: 243. ng/mL
 Acq. Date: 3/16/2010
 Acq. Time: 2:47:12 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IQA
 Min. Peak Height: 1450.00 cps
 Min. Peak Width: 3.00 sec
 Smoothing Width: 3 points
 RT Window: 15.0 sec
 Expected RT: 8.33 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 8.31 min
 Area: 3.02e+005 counts
 Height: 22414.115 cps
 Start Time: 8.23 min
 End Time: 8.52 min



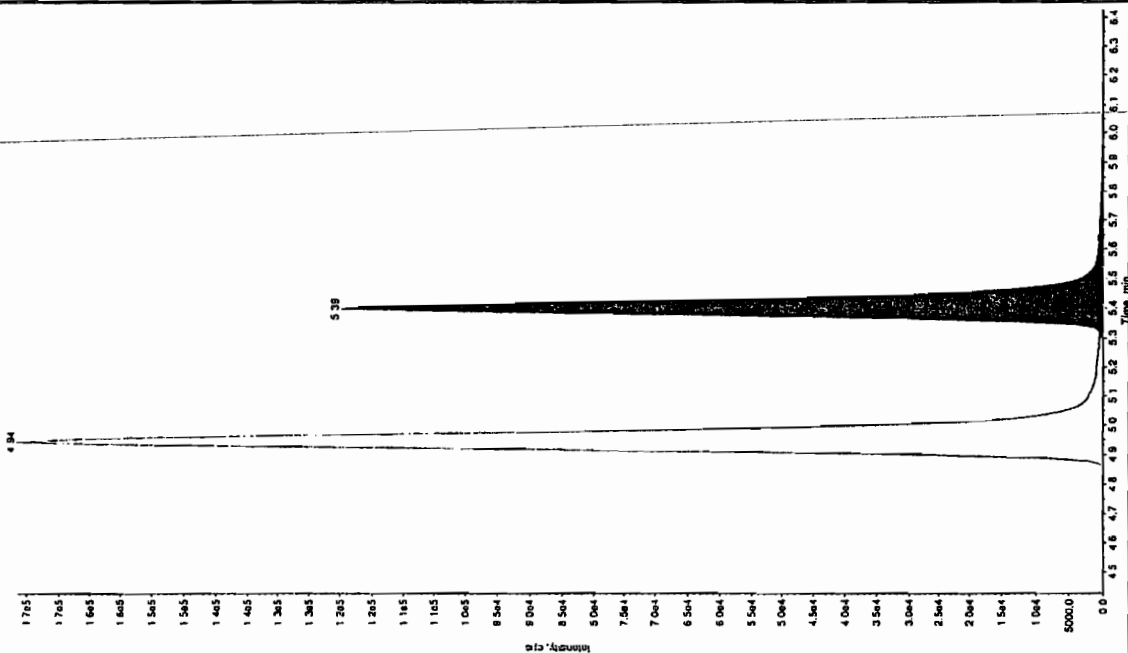
Sample Name: "120204931" Sample ID: "95605321ER" File: "EX503160022.wif"
 Peak Name: "bis(cresyl) phosphate" Mass(es): 369.191.0 amu
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 488.
 Acq. Date: 3/16/2010
 Acq. Time: 1:47:32 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 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: 5.06e+006 counts
 Height: 1499081.177 cps
 Start Time: 10.8 min
 End Time: 11.2 min



Sample Name: "120204931" Sample ID: "95605321ER" File: "EX503160022.wif"
 Peak Name: "2,4-Dichloro-6-nitrophenol" Mass(es): 166.046.0 amu
 Comment: "LCX83212S" Annotation: ""

Sample Index: 1
 Sample Type: Unknown
 Concentration: N/A ng/mL
 Calculated Conc: 413.
 Acq. Date: 3/16/2010
 Acq. Time: 1:47:32 PM
 Modified: No
 Proc. Algorithm: IntelliQuan - IOA
 Min. Peak Height: 350.00 cps
 Min. Peak Width: 0.00 sec
 Smoothing Width: 3 points
 RT Window: 30.0 sec
 Expected RT: 5.43 min
 Use Relative RT: No
 Int. Type: Valley
 Retention Time: 5.19 min
 Area: 4.78e+005 counts
 Height: 119600.157 cps
 Start Time: 5.10 min
 End Time: 5.36 min



Dataset: C:\MASSLYNX\New_Exp\PROJ031910\expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP\PROJData\EXP0319070a

Date: 21-Mar-2010

Time: 02:49:35

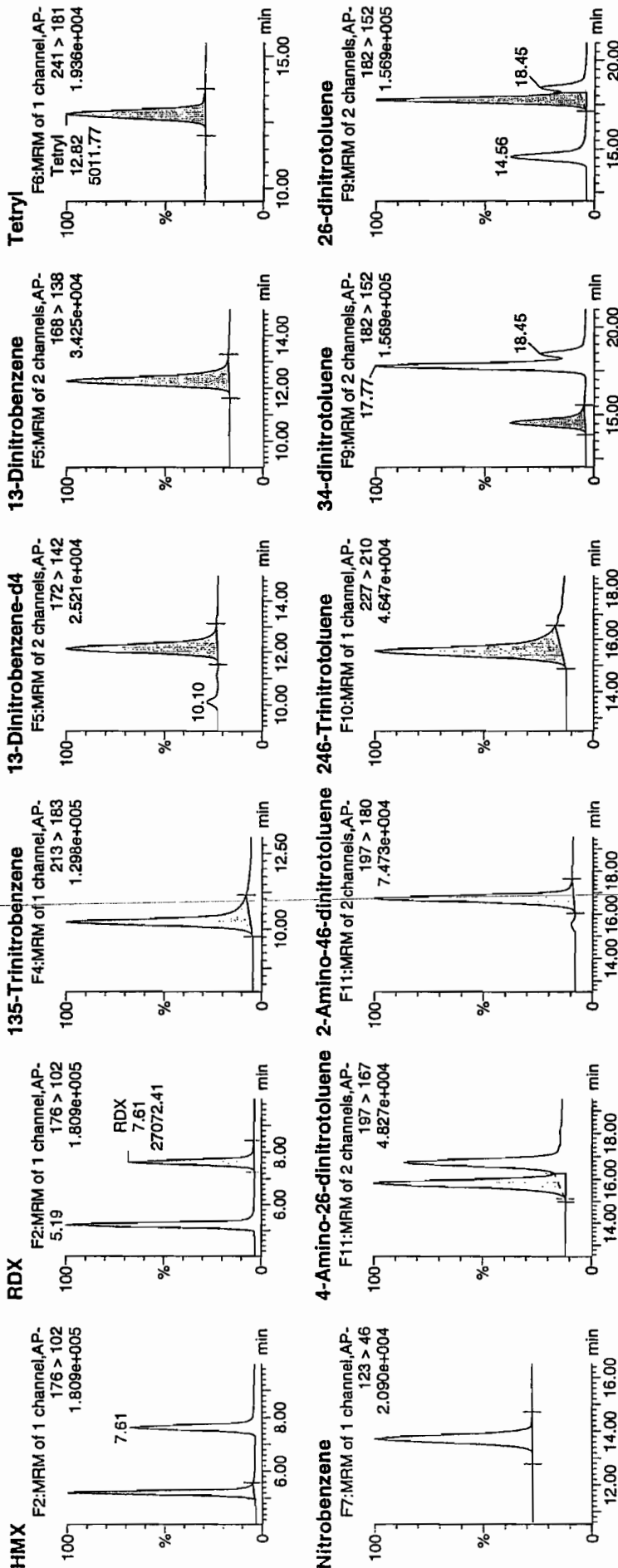
ID: 1202049934

Vial: 2:6,C

12/21/10
3/24/10

247536001 MS / 2 /

WAL-95053 / Solids



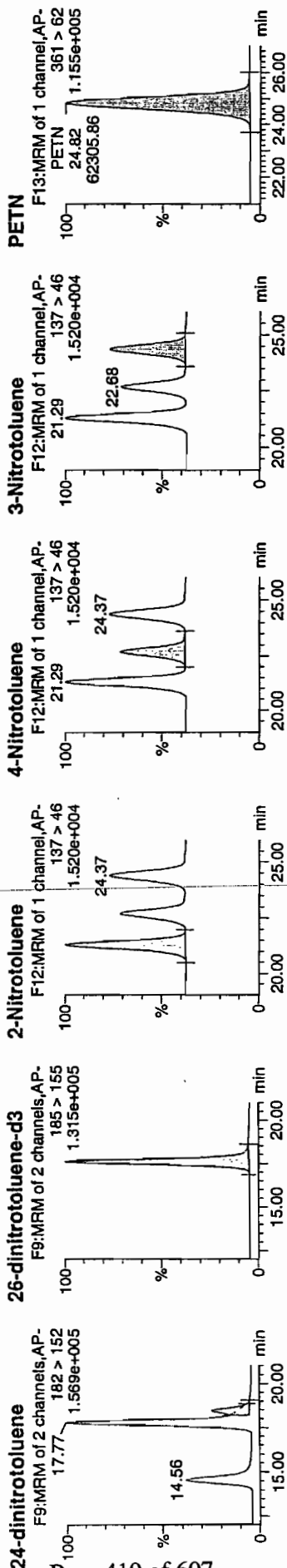
Amme
03/21/10

Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Printed: Sun Mar 21 12:22:16 2010, Page 68 of 103



ID	Name	Trace	RT	Area	IS Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	% Rec	% Dev	SN
1202049934	HMX	176 > 102	5.19	34258.555	7955.944	34258.555	2153.016	bb			507.4971	101.5	1.5	1991.2
1202049934	RDX	176 > 102	7.61	27072.410	7955.944	27072.410	1701.395	bb			602.1737	120.4	20.4	1328.7
1202049934	135-Trinitrobenzene	213 > 183	10.23	36149.656	7955.944	36149.656	2271.865	bb			474.7246	94.9	-5.1	2258.5
1202049934	13-Dinitrobenzene-d4	172 > 142	12.13	7955.944	7955.944	7955.944	7955.944	bb			484.6362	96.9	-3.1	780.0
1202049934	13-Dinitrobenzene	168 > 138	12.27	10820.252	7955.944	10820.252	680.011	bb			501.4859	100.3	0.3	732.6
1202049934	Tetryl	241 > 181	12.82	5011.766	7955.944	5011.766	314.970	bb			267.6785	53.5	-46.5	287.8
1202049934	Nitrobenzene	123 > 46	13.71	5556.872	7955.944	5556.872	349.228	bb			502.8403	100.6	0.6	381.8
1202049934	4-Amino-26-dinitrotoluene	197 > 167	15.80	17500.801	51177.914	17500.801	170.980	MM	21-Mar-10	12:12:19	463.2472	92.6	-7.4	489.0
1202049934	2-Amino-46-dinitrotoluene	197 > 180	16.71	27756.045	51177.914	27756.045	271.172	bb			456.4056	91.3	-8.7	1889.7
1202049934	246-Trinitrotoluene	227 > 210	15.55	18993.756	51177.914	18993.756	185.566	bb			432.1521	86.4	-13.6	1167.4
1202049934	34-dinitrotoluene	182 > 152	14.56	25856.988	51177.914	25856.988	252.619	bb			226.3736	90.5	-9.5	827.1
1202049934	26-dinitrotoluene	182 > 152	17.77	60186.773	51177.914	60186.773	588.015	MM	21-Mar-10	12:14:32	521.2175	104.2	4.2	2311.3
1202049934	24-dinitrotoluene	182 > 152	18.45	12665.059	51177.914	12665.059	123.736	MM	21-Mar-10	12:18:34	513.2302	102.6	2.6	474.7
1202049934	26-dinitrotoluene-d3	185 > 155	17.60	51177.914	51177.914	51177.914	51177.914	bb			549.5173	109.9	9.9	3657.3
1202049934	2-Nitrotoluene	137 > 46	21.29	4269.432	51177.914	4269.432	41.712	bb			446.9760	89.4	-10.6	316.8
1202049934	4-Nitrotoluene	137 > 46	22.68	2378.846	51177.914	2378.846	23.241	bb			503.1234	100.6	0.6	169.6
1202049934	3-Nitrotoluene	137 > 46	24.37	2883.337	51177.914	2883.337	28.170	bb			501.2387	100.2	0.2	197.4
1202049934	PETN	361 > 62	24.82	62305.859	51177.914	62305.859	608.718	bb			547.0487	109.4	9.4	6962.3

Before Jan 31/87

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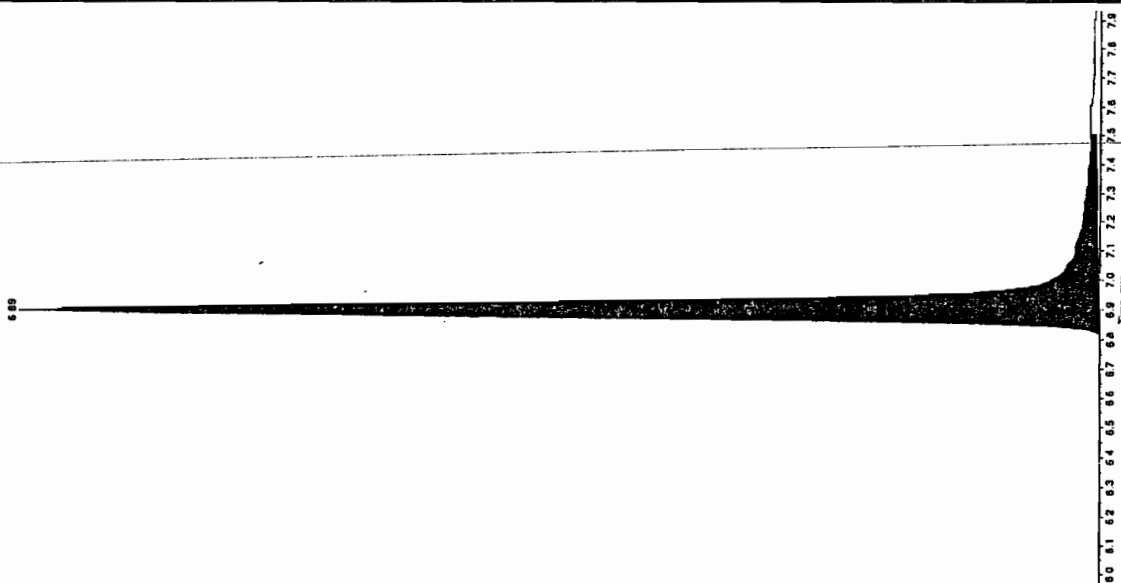
Sample Name: "1202049935" Sample ID: "956053121ER" File: "EX503160023.wil"
Peak Name: "TATB" Mass(es): 257.2, 204.9 amu
Comment: "LCX632125" Annotation:

Sample Index:
Sample Name: Unknown
Sample Type: Unknown
Concentration: 430.0 ng/mL
Acq. Date: 3/16/2010
Acq. Time: 2:03:14 PM

Method:
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 1500.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 6.53 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 6.83 min
Area: 1,234,565 counts
Height: 17,041,793 cps
Start Time: 6.20 min
End Time: 7.50 min

Intensity, cps



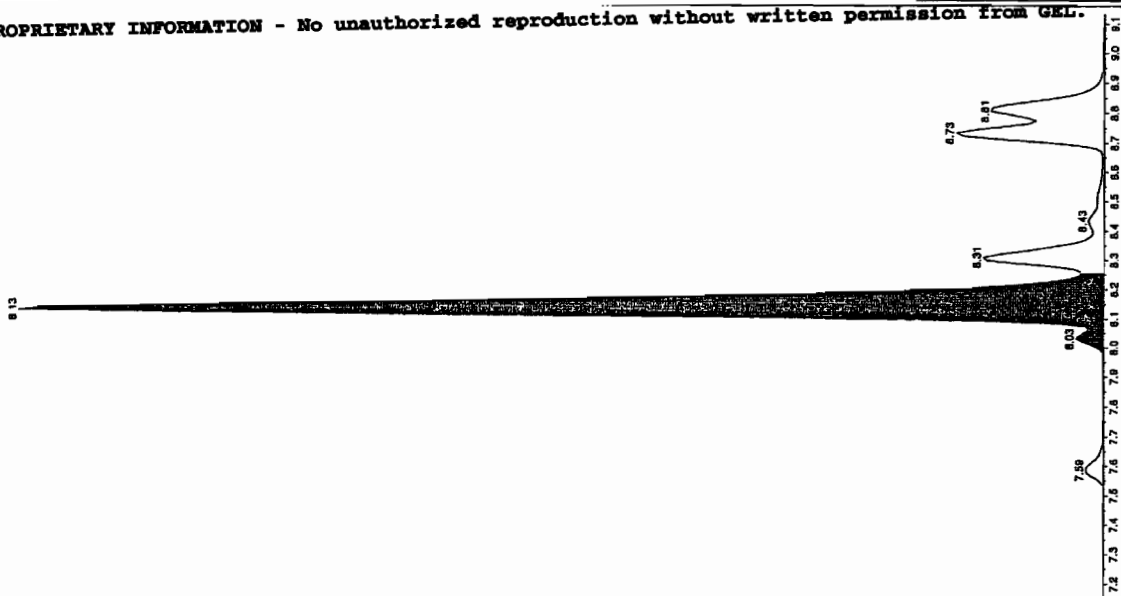
Sample Name: "1202049935" Sample ID: "956053121ER" File: "EX503160023.wil"
Peak Name: "TATB" Mass(es): 257.2, 204.9 amu
Comment: "LCX632125" Annotation:

Sample Index:
Sample Name: Unknown
Sample Type: Unknown
Concentration: 496.0 ng/mL
Acq. Date: 3/16/2010
Acq. Time: 2:03:14 PM

Method:
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 2000.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 15.0 sec
Expected RT: 8.13 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 8.13 min
Area: 4,378,006 counts
Height: 10,613,771.97 cps
Start Time: 7.97 min
End Time: 8.26 min

Intensity, cps



Chromatogram

after Jan 31/01/10

Sample Name: "120204935" Sample ID: "95605321LER" File: "EXS03160023.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: N/A

Calculated Conc: 3.1672010 ng/mL

Acq. Date: 3/16/2010

Acq. Time: 2:03:14 PM

Modified: N2

Int. Type: Manual

Retention Time: 8.14 min

RT Window: 15.0 sec

Expected RT: 8.13 min

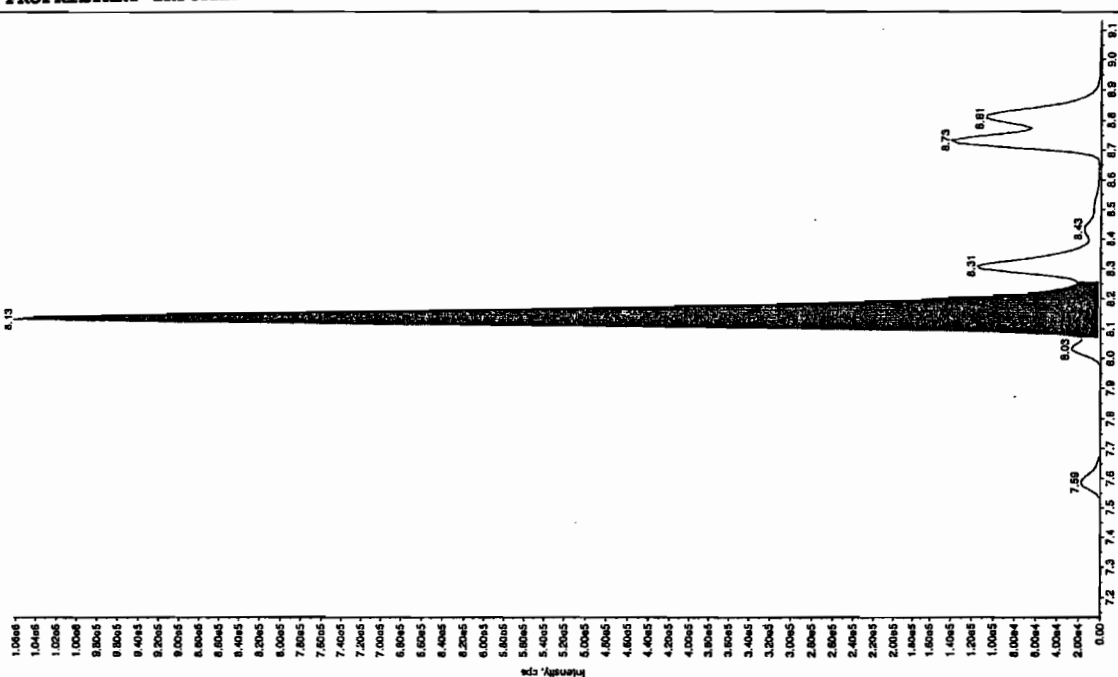
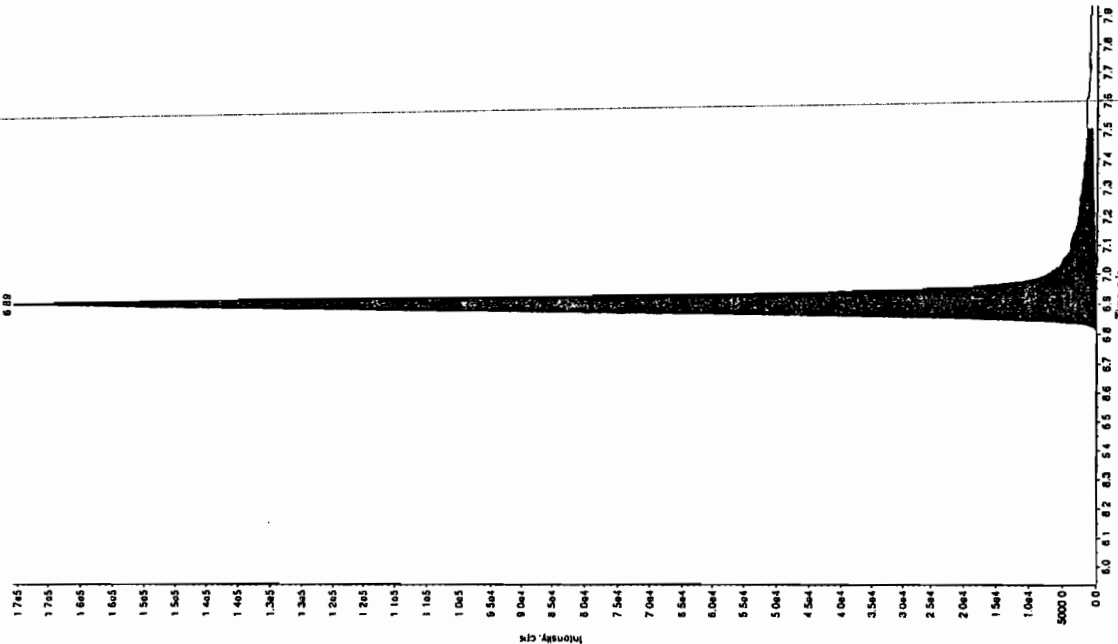
Use Relative RT: No

Area: 4.26e+006 counts

Height: 1072323.774 cps

Start Time: 8.07 min

End Time: 8.26 min



Sample Name: "1202049935" Sample ID: "95605321ER" File: "EX503160023.wil"

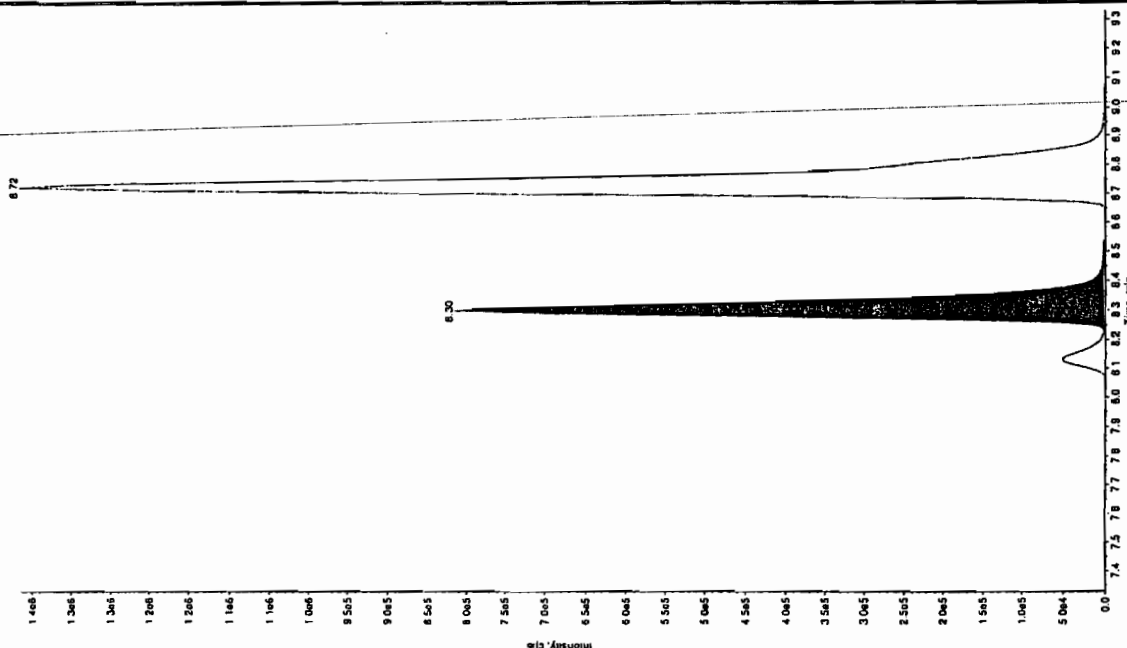
Peak Name: "3,4-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Comment: "LCX632125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 3/16/2010 ng/mL
Acq. Date: 2:03:14 PM
Acq. Time: 2:03:14 PM

Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.96 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.94 min
Height: 7,014,005 counts
Area: 155610.901 cps
Start Time: 4.82 min
End Time: 5.24 min



Sample Name: "1202049935" Sample ID: "95605321ER" File: "EX503160023.wil"

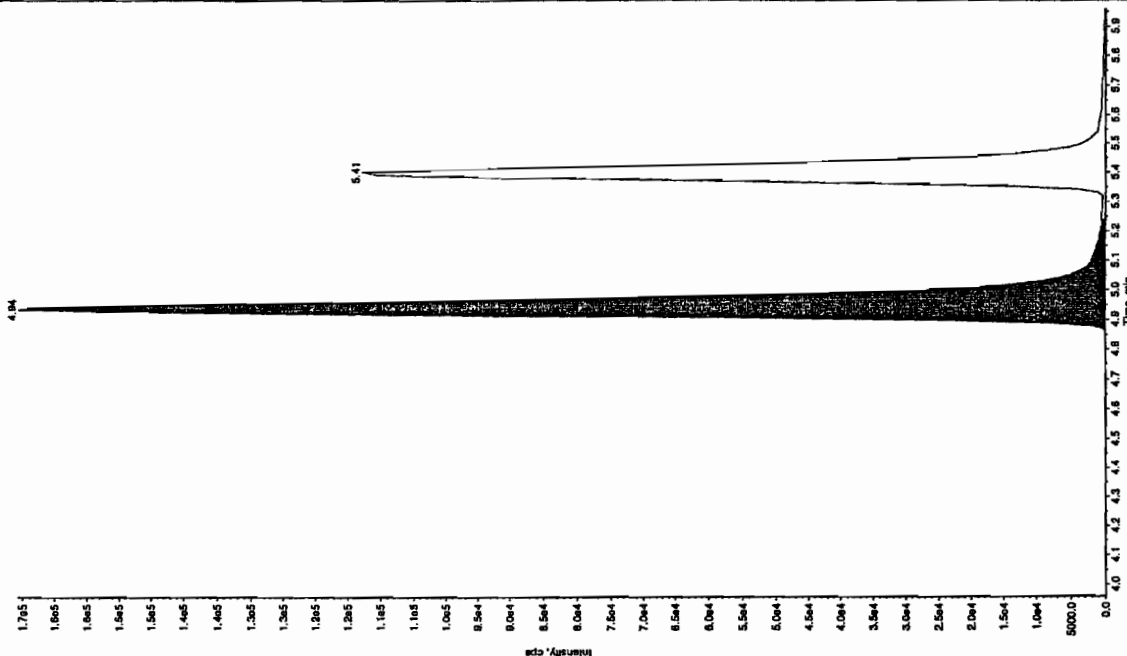
Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "186.0/166.0 amu"

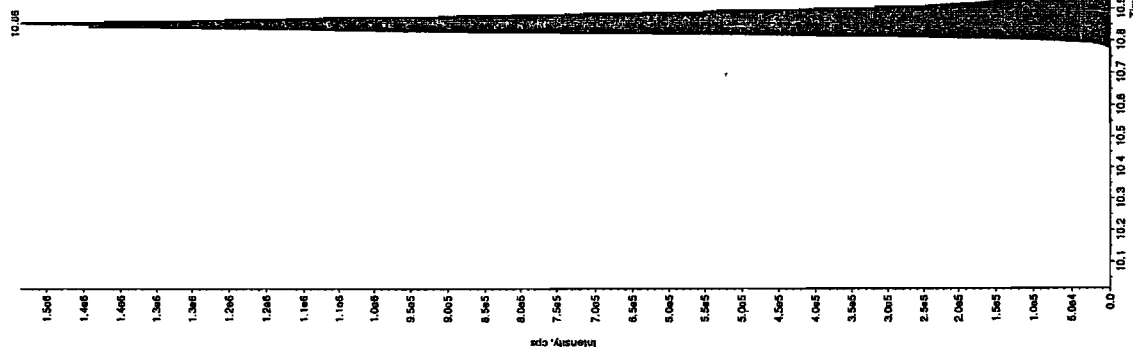
Comment: "LCX632125" Annotation: ""

Sample Index: 1
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 433 ng/mL
Acq. Date: 3/16/2010
Acq. Time: 2:03:14 PM

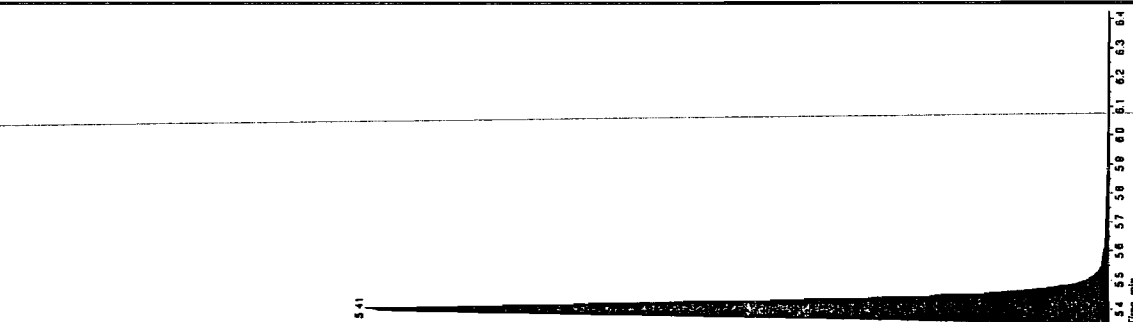
Modified: No
Proc. Algorithm: IntelliQuan - IOA
Min. Peak Height: 450.00 cps
Min. Peak Width: 0.00 sec
Smoothing Width: 3 points
RT Window: 30.0 sec
Expected RT: 4.96 min
Use Relative RT: No

Int. Type: Valley
Retention Time: 4.94 min
Height: 7,014,005 counts
Area: 155610.901 cps
Start Time: 4.82 min
End Time: 5.24 min

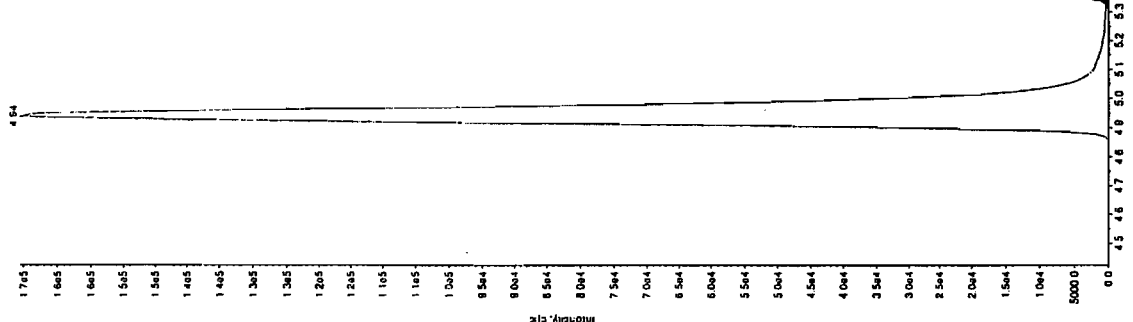




Sample Type:	Unknown	Concentration:	N/A	ng/mL
Acq. Date:	3/16/2010	Calculated Conc:	490.	
Acq. Time:	2:03:14 PM			
Modified: No				
Method: ProPro, Algorithm: IntelliQuan - IQA				
Min:	10.9	Min:	10.9	min
Max:	10.9	Max:	10.9	min
Area:	6.07e+006	Counts		
Height:	1485618.652	Cps		
Start Time:	10.7	min		
End Time:	11.2	min		
MT Window:	30.0	sec		
Expected RT:	10.9	min		
Use Relative RT:	No			
Int. Type:	Valley			
Retention Time:	10.9	min		
Area:	6.07e+006	Counts		
Height:	1485618.652	Cps		
Start Time:	10.7	min		
End Time:	11.2	min		



Sample Name: '1202049935' Sample ID: '95605321LER' File: 'EXS0160023.wiff'
Peak Name: '24-Diamino-6-nitrofluorene' Mass(es): '166.046.0 amu'



Unknown	NO	Adulterant: Intelliquan - 10A	min
411	359.0	Peak Height: 359.0	counts
3 16/2010	5.00	Peak Width: 5.00	sec
2:03:14 PM	39.0	Peak Width: 39.0	points
	sec	Integration: 1	sec
	3.73	Integration RT: 3.73	min
	NO	Adulterant: Intelliquan - 10A	min
	411	Peak Height: 411	counts
	5.00	Peak Width: 5.00	sec
	39.0	Peak Width: 39.0	points
	sec	Integration: 1	sec
	3.73	Integration RT: 3.73	min

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

Name: C:\MASSLYNX\NEW_EXP.PRO\Data\EXP0319071a

Date: 21-Mar-2010

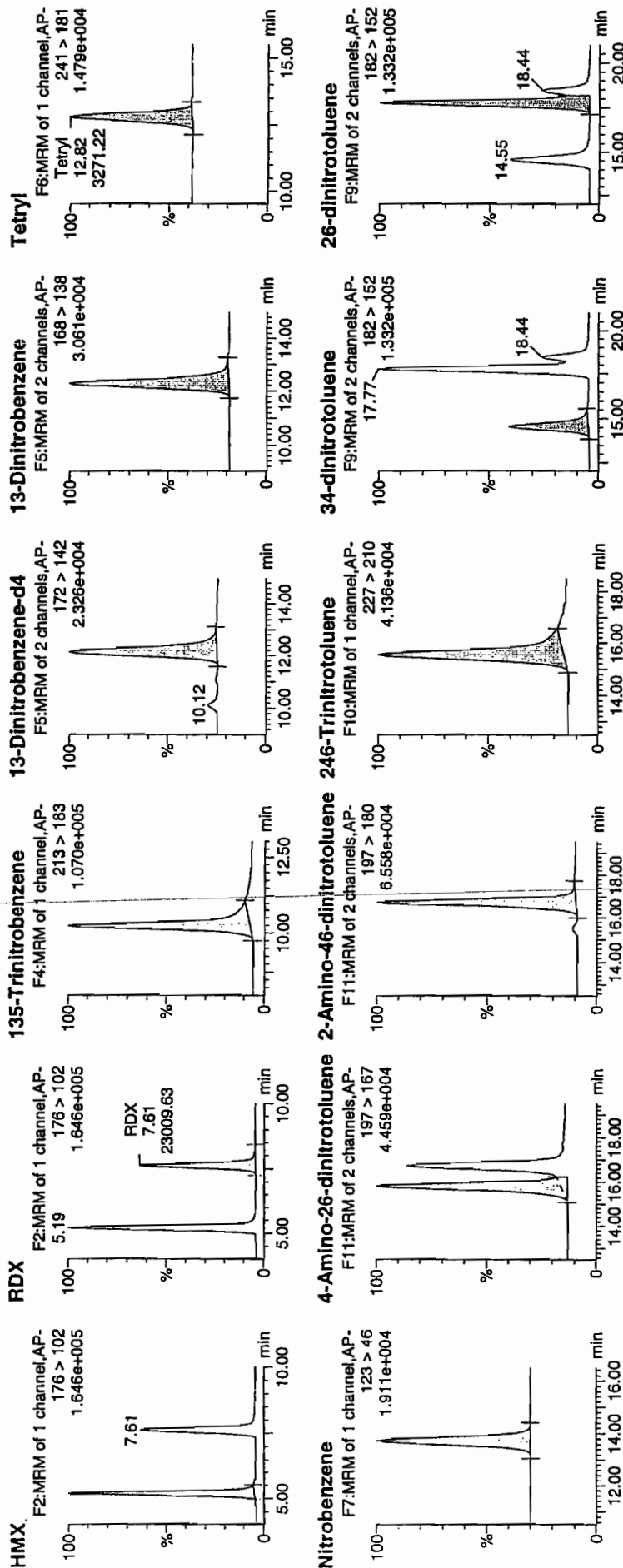
Time: 03:19:05

ID: 1202049935

Vial: 2:6,D

4477
3/24/10

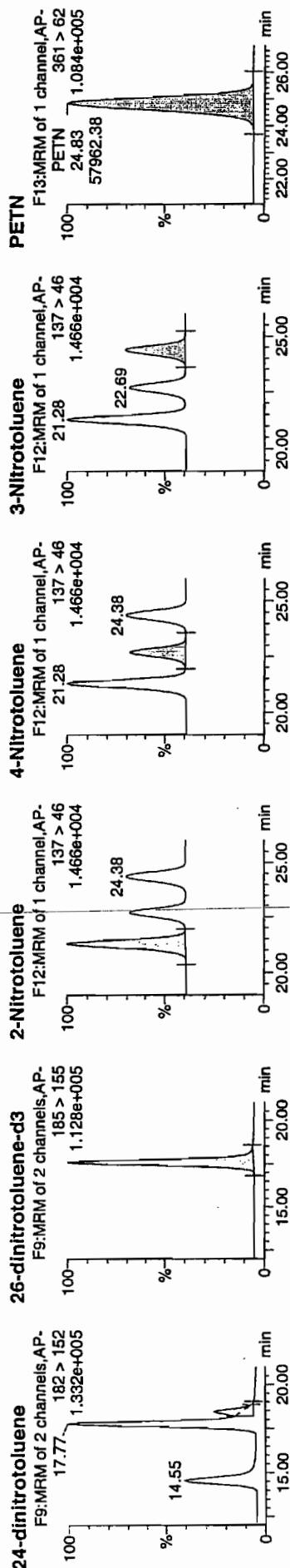
WAVE / 976053 / SOLID / 247556001MSD / 2



4477
3/24/10

Dataset: C:\MASSLYNX\New_Exp.PRO\031910expA1.qld, Time: Sun Mar 21 12:20:26 2010

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ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Int/mt	Eff	Day	SN
1202049935	HMx	176 > 102	5.19	31112.125	7262.079	31112.125	2142.095	bb			504.9228	101.0	1.0	3650.6
1202049935	RDX	176 > 102	7.61	23009.627	7262.079	23009.627	1584.231	bb			560.7060	112.1	12.1	2279.1
1202049935	135-Trinitrobenzene	213 > 183	10.23	30053.492	7262.079	30053.492	2089.207	bb			432.3776	86.5	-13.5	1672.3
1202049935	13-Dinitrobenzene-d4	172 > 142	12.14	7262.079		7262.079	7262.079	bb			442.3694	88.5	-11.5	611.4
1202049935	13-Dinitrobenzene	168 > 138	12.28	9561.335	7262.079	9561.335	658.306	bb			485.4792	97.1	-2.9	601.9
1202049935	Tetryl	241 > 181	12.82	3271.217	7262.079	3271.217	225.226	bb			191.4077	38.3	-61.7	351.5
1202049935	Nitrobenzene	123 > 46	13.71	4782.355	7262.079	4782.355	329.269	bb			474.1025	94.8	-5.2	566.2
1202049935	4-Amino-26-dinitrotoluene	197 > 167	15.82	15614.585	44127.535	15614.585	176.926	MM	21-Mar-10	12:12:26	479.3560	95.9	-4.1	371.9
1202049935	2-Amino-46-dinitrotoluene	197 > 180	16.73	23943.938	44127.535	23943.938	271.304	bb			456.6273	91.3	-8.7	549.4
1202049935	246-Trinitrotoluene	182 > 210	15.54	16503.611	44127.535	16503.611	186.999	bb			435.4894	87.1	-12.9	344.1
1202049935	34-dinitrotoluene	227 > 152	14.55	23049.525	44127.535	23049.525	261.169	bb			234.0360	93.6	-6.4	1342.1
1202049935	26-dinitrotoluene	182 > 152	17.77	49893.289	44127.535	49893.289	565.331	MM	21-Mar-10	12:15:01	501.1099	100.2	0.2	3555.0
1202049935	24-dinitrotoluene	182 > 152	18.44	10803.253	44127.535	10803.253	122.409	MM	21-Mar-10	12:18:26	507.7296	101.5	1.5	751.0
1202049935	26-dinitrotoluene-d3	185 > 155	17.59	44127.535		44127.535	44127.535	bb			473.8146	94.8	-5.2	2733.5
1202049935	2-Nitrotoluene	137 > 46	21.28	3902.938	44127.535	3902.938	44.223	bb			473.8912	94.8	-5.2	133.4
1202049935	4-Nitrotoluene	137 > 46	22.69	1990.743	44127.535	1990.743	22.557	bb			488.3108	97.7	-2.3	64.0
1202049935	3-Nitrotoluene	137 > 46	24.38	2305.721	44127.535	2305.721	26.126	bb			484.8671	93.0	-7.0	68.8
1202049935	PETN	361 > 62	24.83	57962.379	44127.535	57962.379	656.760	bb			591.2873	118.3	18.3	9401.8

GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 808778

Revision No.: 1

DATA EXCEPTION REPORT

Mo. Day Yr. 24-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 8321A Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 956053	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247545(10-1964), 247551(10-1969), 247552(10-1970), 247556(10-1953), 247565(10-1956) Application Issues: Failed Recovery for LCS/LCSD Failed RPD for MS/MSD, or PS/PSD			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The Laboratory Control Sample (1202049933) did not meet spike recovery limits for TATB at 170%. The recovery limits are 28-162%. 2. The MS/MSD pair (1202049934/5) did not meet RPD acceptance limits for Tetra at 33.2%. The acceptance limits are 0-30%.		1. While the Laboratory Control Sample exhibited a high bias in the, both the Matrix Spike and Matrix Spike Duplicate met acceptance limits for TATB. Since TATB was not detected in the associated samples, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative. 2. Since all other RPD recoveries met acceptance criteria, the noted exception is attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancy is noted in the case narrative.	

Originator's Name:

Michael Penny

24-MAR-10

Data Validator/Group Leader:

Herbert Maier

24-MAR-10

GC SEMIVOLATILE PCB ANALYSIS

**PCB Case Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1956**

Method/Analysis Information

Procedure: Analysis of Polychlorinated Biphenyls by ECD
Analytical Method: SW846 8082
Prep Method: SW846 3550B
Analytical Batch Number: 957955
Prep Batch Number: 957952

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8082:

Sample ID	Client ID
247565001	RE15-10-8252
247565002	RE15-10-8253
247565003	RE15-10-8250
247565004	RE15-10-8251
247565005	RE15-10-8248
247565006	RE15-10-8249
247565007	RE15-10-8247
247565008	RE15-10-8254
247565009	RE15-10-8268
247565010	RE15-10-8264
1202054241	Method Blank (MB)
1202054242	Laboratory Control Sample (LCS)
1202054243	247550001(RE46-10-12662) Matrix Spike (MS)
1202054244	247550001(RE46-10-12662) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-040 REV# 15.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 23.0.

Calibration Information

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

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

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Surrogate Recoveries

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

A LANL sample of similar matrix associated with another SDG (#10-1967) was selected for the matrix spike and matrix spike duplicate analysis. A Form III and QC raw data are included in the package summarizing the results.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP. All sample extracts were cleaned using alumina. Additionally, copper was added to all sample extracts to remove sulfur.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Electronic Package Comment

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

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

Data Exception (DER) Documentation

Data exception reports (DERs) are for documentation of any procedural anomalies that may deviate from referenced SOP or contractual document. A DER was not required for this SDG.

Manual Integrations

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 VIIs will display the results either in the % difference or % drift depending on the type of the calibration curve. If the curve of all analytes is generated using an average response factor (RF), the Form VII will display results using the %difference calculation (RF). If the curve of one or more analytes is generated using a linear curve, the Form VII will display results using the % drift calculation (by concentration) for all analytes.

System Configuration

The Semi-Volatiles-PCB analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
ECD8A.I_1	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP I	30m x 0.25mm, 0.25um (Rtx-CLPesticide I)
ECD8A.I_2	HP Gas Chromatograph	HP6890 Series ECD	Rtx-CLP II	30m x 0.25mm, 0.20um (Rtx-CLPesticide II)

Certification Statement

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

Review Validation

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

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

Reviewer: Andy Whitlock

Date: 3-18-2010

Roadmap for LANL 10-1956 PCB

This roadmap was analyzed by jcn01212 on 03-02-2010, 11:44.

This roadmap was reviewed by jcn01212 on 03-03-2010, 09:15.

This roadmap was packaged by yml on 03-18-2010, 18:31.

Front Sample Column

exclude	manual	datafile	smid	sampletype	injdac	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/044f4401.d	247565001	sample	01-MAR-2010	17:41	10-1956.sub	RE15-10-8252	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/045f4501.d	247565002	sample	01-MAR-2010	17:53	10-1956.sub	RE15-10-8253	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/046f4601.d	247565003	sample	01-MAR-2010	18:06	10-1956.sub	RE15-10-8250	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/047f4701.d	247565004	sample	01-MAR-2010	18:18	10-1956.sub	RE15-10-8251	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/048f4801.d	247565005	sample	01-MAR-2010	18:31	10-1956.sub	RE15-10-8248	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/049f4901.d	247565006	sample	01-MAR-2010	18:43	10-1956.sub	RE15-10-8249	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/050f5001.d	247565007	sample	01-MAR-2010	18:55	10-1956.sub	RE15-10-8247	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/053f5301.d	247565008	sample	01-MAR-2010	19:32	10-1956.sub	RE15-10-8254	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/054f5401.d	247565009	sample	01-MAR-2010	19:45	10-1956.sub	RE15-10-8268	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/055f5501.d	247565010	sample	01-MAR-2010	19:57	10-1956.sub	RE15-10-8264	1.00000	957955	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smid	sampletype	injdac	injtme	sublist	clientid	dilution	prepbachid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/044b4401.d	247565001	sample	01-MAR-2010	17:41	10-1956.sub	RE15-10-8252	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/045b4501.d	247565002	sample	01-MAR-2010	17:53	10-1956.sub	RE15-10-8253	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/046b4601.d	247565003	sample	01-MAR-2010	18:06	10-1956.sub	RE15-10-8250	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/047b4701.d	247565004	sample	01-MAR-2010	18:18	10-1956.sub	RE15-10-8251	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/048b4801.d	247565005	sample	01-MAR-2010	18:31	10-1956.sub	RE15-10-8248	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/049b4901.d	247565006	sample	01-MAR-2010	18:43	10-1956.sub	RE15-10-8249	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/050b5001.d	247565007	sample	01-MAR-2010	18:55	10-1956.sub	RE15-10-8247	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/053b5301.d	247565008	sample	01-MAR-2010	19:32	10-1956.sub	RE15-10-8254	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/054b5401.d	247565009	sample	01-MAR-2010	19:45	10-1956.sub	RE15-10-8268	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/055b5501.d	247565010	sample	01-MAR-2010	19:57	10-1956.sub	RE15-10-8264	1.00000	957955	UPLOAD BOTH, USE HIGHER

Front QC Sample Column

exclude	manual	datafile	smid	sampletype	injdac	injtme	sublist	clientid	dilution	prepbachid	comment
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<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/029f2901.d	1202054241	mb	01-MAR-2010	14:35	10-1956.sub	PBLK01	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/030f3001.d	1202054242	lcs	01-MAR-2010	14:48	10-1956.sub	PBLK01LCS	1.00000	957955	UPLOAD BOTH, USE HIGHER

Back QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/029f2901.d	1202054241	mb	01-MAR-2010	14:35	10-1956.sub	PBLK01	1.00000	957955	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/030110.b/030f3001.d	1202054242	lcs	01-MAR-2010	14:48	10-1956.sub	PBLK01LCS	1.00000	957955	UPLOAD BOTH, USE HIGHER

SAMPLE DATA SUMMARY

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565007

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8247
Batch ID: 957955
Run Date: 03/01/2010 18:55
Prep Date: 02/26/2010 10:21
Data File: 050f5001.d
050b5001.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.14	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.14	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.14	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.14	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.14	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.14	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.14	3.41	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1956
Lab Sample ID: 247565005

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8248
Batch ID: 957955
Run Date: 03/01/2010 18:31
Prep Date: 02/26/2010 10:21
Data File: 048f4801.d
048b4801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number:	10-1956	Date Collected:	02/15/2010 12:00	Matrix:	R
Lab Sample ID:	247565006	Date Received:	02/20/2010 08:55	%Moisture:	1.7
Client ID:	RE15-10-8249	Client:	LANL010	Project:	LANL01004
Batch ID:	957955	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/01/2010 18:43	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/26/2010 10:21	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30 g	Final Volume:	1 mL
	049b4901.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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1956
Lab Sample ID: 247565003

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8250
Batch ID: 957955
Run Date: 03/01/2010 18:06
Prep Date: 02/26/2010 10:21
Data File: 046f4601.d
046b4601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB
Certificate of Analysis
Sample Summary

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SDG Number: 10-1956
Lab Sample ID: 247565004

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8251
Batch ID: 957955
Run Date: 03/01/2010 18:18
Prep Date: 02/26/2010 10:21
Data File: 047f4701.d
047b4701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565001

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.8
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8252
Batch ID: 957955
Run Date: 03/01/2010 17:41
Prep Date: 02/26/2010 10:21
Data File: 044f4401.d
044b4401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565002

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.07 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.6
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8253
Batch ID: 957955
Run Date: 03/01/2010 17:53
Prep Date: 02/26/2010 10:21
Data File: 045f4501.d
045b4501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565008

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 1.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8254
Batch ID: 957955
Run Date: 03/01/2010 19:32
Prep Date: 02/26/2010 10:21
Data File: 053f5301.d
053b5301.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565010

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 3.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.46	ug/kg	1.15	3.46	1
11104-28-2	Aroclor-1221	U	3.46	ug/kg	1.15	3.46	1
11141-16-5	Aroclor-1232	U	3.46	ug/kg	1.15	3.46	1
53469-21-9	Aroclor-1242	U	3.46	ug/kg	1.15	3.46	1
12672-29-6	Aroclor-1248	U	3.46	ug/kg	1.15	3.46	1
11097-69-1	Aroclor-1254	U	3.46	ug/kg	1.15	3.46	1
11096-82-5	Aroclor-1260	U	3.46	ug/kg	1.15	3.46	1

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565009

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
 2 CLP2

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8268
Batch ID: 957955
Run Date: 03/01/2010 19:45
Prep Date: 02/26/2010 10:21
Data File: 054f5401.d
 054b5401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

QUALITY CONTROL SUMMARY

PCB
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1956

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 #
1202054241	MB for batch 957952	62	65	74	78
1202054242	LCS for batch 957952	64	68	71	76
247565001	RE15-10-8252	55	58	65	70
247565002	RE15-10-8253	48	52	63	67
247565003	RE15-10-8250	41	42	57	61
247565004	RE15-10-8251	43	45	64	68
247565005	RE15-10-8248	43	45	60	66
247565006	RE15-10-8249	45	49	70	72
247565007	RE15-10-8247	60	62	72	76
247565008	RE15-10-8254	52	55	68	73
247565009	RE15-10-8268	53	55	71	76
247565010	RE15-10-8264	58	61	72	77

Surrogate**Acceptance Limits**

4CMX = 4cmx

(32%-120%)

DCB = Decachlorobiphenyl

(30%-116%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB

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**Quality Control Summary
Spike Recovery Report****SDG Number:** 10-1956**Sample Type:** Laboratory Control Sample**Client ID:** LCS for batch 957952**Matrix:** SOIL**Lab Sample ID:**1202054242**Instrument:** ECD8A.I**Analysis Date:** 03/01/2010 14:48**Dilution:** 1**Analyst:** JAOC**Prep Batch ID:** 957952**Inj. Vol:** 1 uL**Batch ID:** 957955

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	LCS Aroclor-1016	33.3	0.0	23.3	70	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	26.9	81	45-118

PCB

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Quality Control Summary
Spike Recovery Report

SDG Number: 10-1967

Sample Type: Matrix Spike

Client ID: RE46-10-12662MS

Matrix: S

Lab Sample ID:1202054243

%Moisture: 11.2

Instrument: ECD8A.I

Analysis Date: 03/01/2010 17:16

Dilution: 1

Analyst: JAOC

Prep Batch ID: 957952

Inj. Vol: 1 uL

Batch ID: 957955

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	37.5	0.00 U	23.0	61	23-119
11096-82-5	MS Aroclor-1260	37.5	0.00 U	24.3	65	28-124

PCB

Page 2 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 10-1967

Sample Type: Matrix Spike Duplicate

Client ID: RE46-10-12662MSD

Matrix: S

Lab Sample ID:1202054244

%Moisture: 11.2

Instrument: ECD8A.I

Analysis Date: 03/01/2010 17:29

Dilution: 1

Analyst: JAOC

Prep Batch II 957952

Inj. Vol: 1 uL

Batch ID: 957955

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
12674-11-2	MSD Aroclor-1016	37.5	0.00 U	22.8	61	23-119	1	0-28
11096-82-5	MSD Aroclor-1260	37.5	0.00 U	24.8	66	28-124	2	0-30

Method Blank Summary

Page 1 of 1

SDG Number:	10-1956	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 957952	Instrument ID:	ECD8A.I_2	Data File:	029b2901-1.d
Lab Sample ID:	1202054241		ECD8A.I_1		029f2901-1.d
Column:	CLP2	Prep Date:	02/26/2010 10:21	Analyzed:	03/01/10 14:35
	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 957952	1202054242	030f3001-1.d 030b3001-1.d	03/01/10	1448
04 RE15-10-8252	247565001	044f4401.d 044b4401.d	03/01/10	1741
05 RE15-10-8253	247565002	045f4501.d 045b4501.d	03/01/10	1753
06 RE15-10-8250	247565003	046f4601.d 046b4601.d	03/01/10	1806
07 RE15-10-8251	247565004	047f4701.d 047b4701.d	03/01/10	1818
08 RE15-10-8248	247565005	048f4801.d 048b4801.d	03/01/10	1831
09 RE15-10-8249	247565006	049f4901.d 049b4901.d	03/01/10	1843
10 RE15-10-8247	247565007	050f5001.d 050b5001.d	03/01/10	1855
11 RE15-10-8254	247565008	053f5301.d 053b5301.d	03/01/10	1932
12 RE15-10-8268	247565009	054f5401.d 054b5401.d	03/01/10	1945
13 RE15-10-8264	247565010	055f5501.d 055b5501.d	03/01/10	1957

SAMPLE DATA

PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565007

Client ID: RE15-10-8247
Batch ID: 957955
Run Date: 03/01/2010 18:55
Prep Date: 02/26/2010 10:21
Data File: 050f5001.d
050b5001.d

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

Matrix: R
% Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.14	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.14	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.14	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.14	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.14	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.14	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.14	3.41	1

Data File: /chem/ecd8a.i/030110.b/050f5001.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/050f5001.d
Lab Smp Id: 247565007 Client Smp ID: RE15-10-8247
Inj Date : 01-MAR-2010 18:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565007|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8247|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.22920	% Moisture

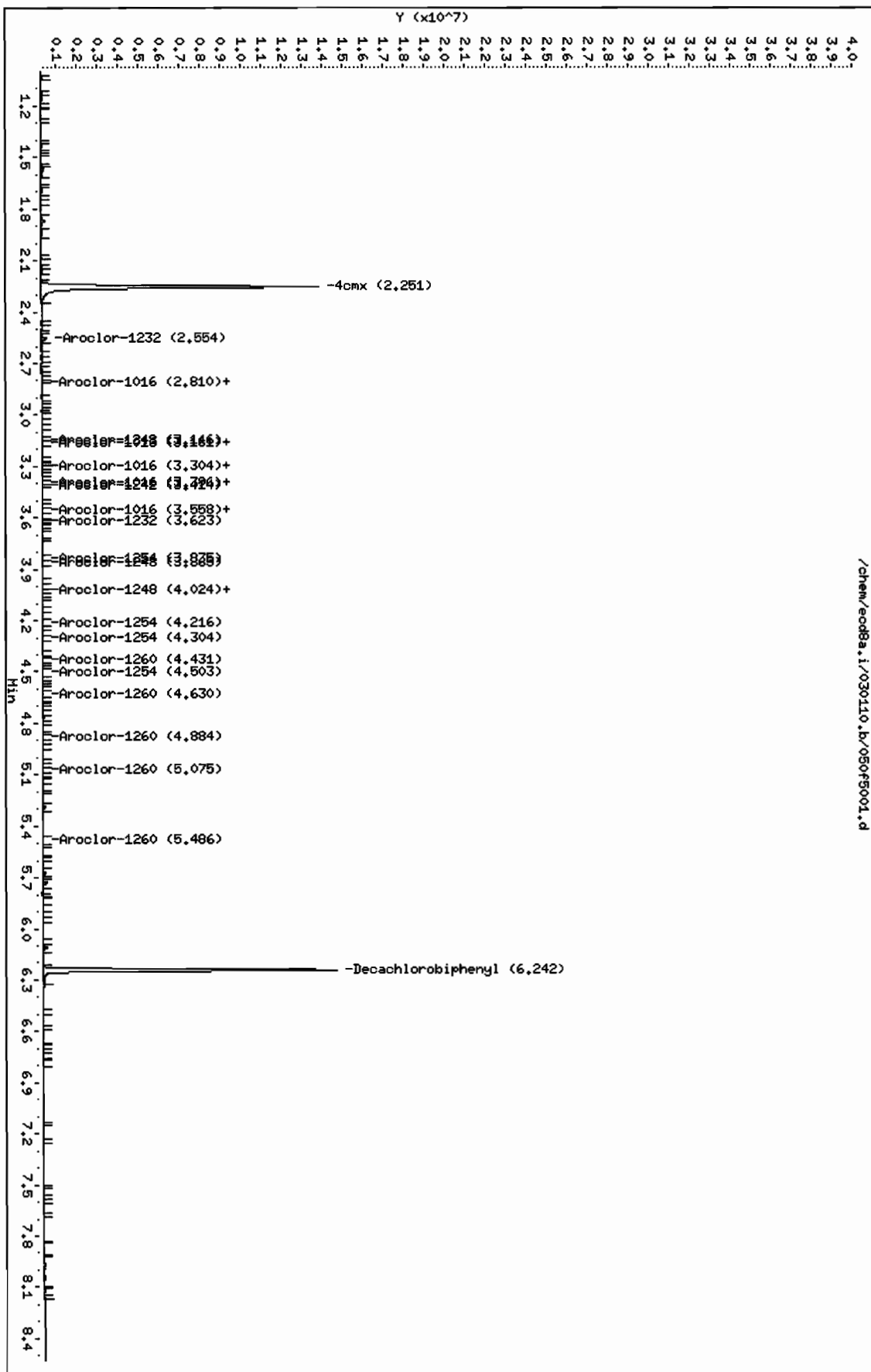
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx			CAS #: 877-09-8			
2.251	2.251	0.000	15035779	119.323	4.1 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3			
6.242	6.242	0.000	12956876	143.458	4.9 80.00- 120.00	100.00

Data File: /chem/ecob8a.i/030110.b/050f5001.d
 Date : 01-MAR-2010 18:55
 Client ID: REL5-10-8247
 Sample Info: 1247565007111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecob8a.i
 Operator: JHOC
 Column diameter: 0.25



/chem/ecob8a.i/030110.b/050f5001.d

Data File: /chem/ecd8a.i/030110.b/050b5001.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/050b5001.d
Lab Smp Id: 247565007 Client Smp ID: RE15-10-8247
Inj Date : 01-MAR-2010 18:55
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565007|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8247|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.22920	% Moisture

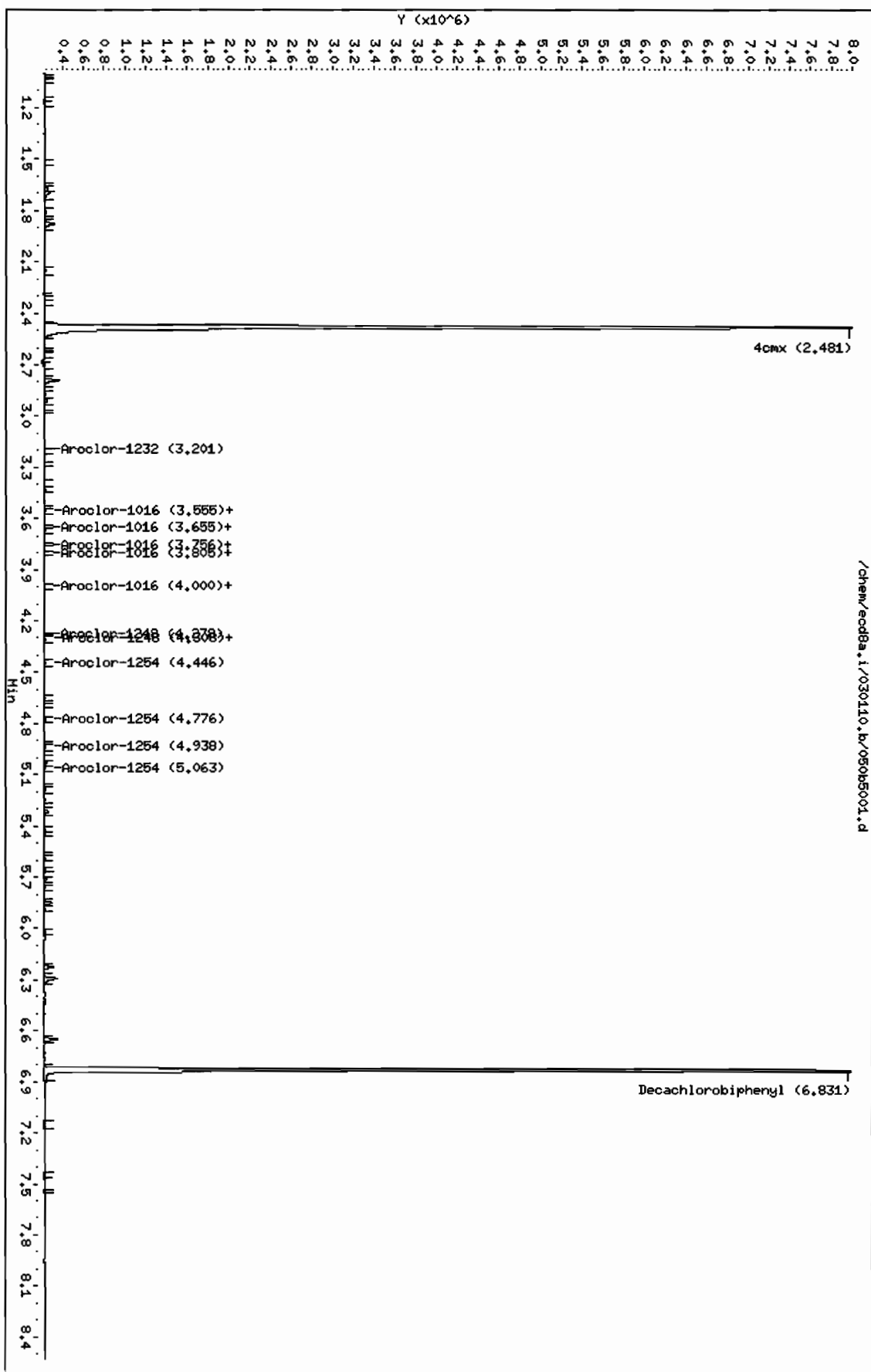
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8							
2.481	2.482	-0.001	10283392 124.685	4.2	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.831	6.830	0.001	9408460 152.641	5.2	80.00- 120.00	100.00	

Data File: /chem/ecdb8a.i/030110.b/050b5001.d
 Date : 01-MAR-2010 18:55
 Client ID: RE15-10-8247
 Sample Info: 1247565007111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdb8a.i
 Operator: JHOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565005

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.05 g
Column: 1 CLP1
 2 CLP2

Matrix: R
% Moisture: 1.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8248
Batch ID: 957955
Run Date: 03/01/2010 18:31
Prep Date: 02/26/2010 10:21
Data File: 048f4801.d
 048b4801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	1
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	1
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	1
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	1
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	1
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	1
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	1

Data File: /chem/ecd8a.i/030110.b/048f4801.d
Report Date: 02-Mar-2010 08:30

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/048f4801.d
Lab Smp Id: 247565005 Client Smp ID: RE15-10-8248
Inj Date : 01-MAR-2010 18:31
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565005|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8248|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	1.65890	% Moisture

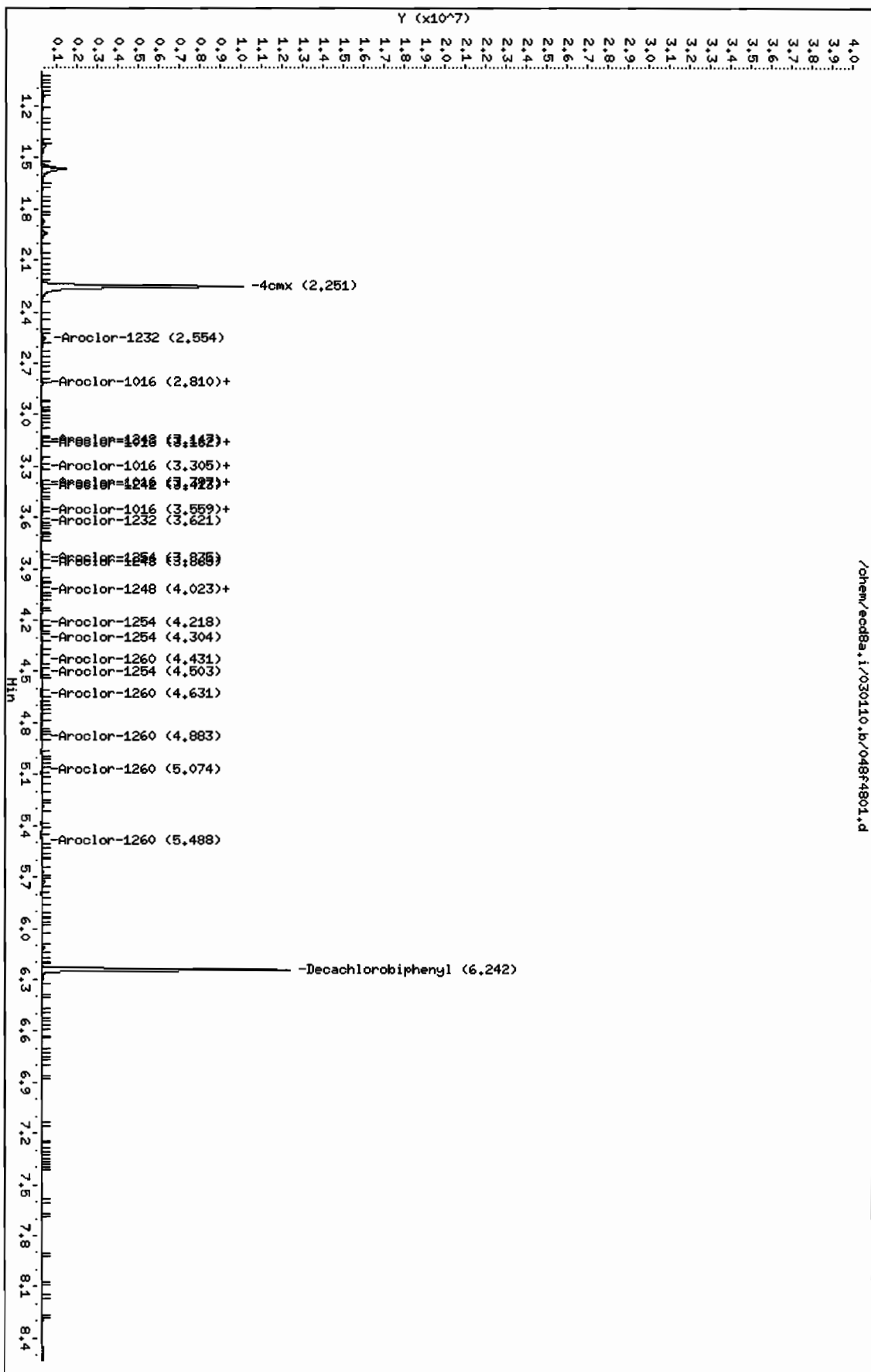
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.251	2.251	0.000	10807858	85.7703	2.9 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.242	6.242	0.000	10911958	120.817	4.1 80.00- 120.00	100.00

Data File: /chem/ecdb8a.i/030110.b/048f4801.d
 Date : 01-MAR-2010 18:31
 Client ID: RE15-10-8248
 Sample Info: 12476500511
 Volume Injected (ul): 1.0
 Column phase: CLP1

Instrument: ecdb8a.i
 Operator: JHOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/048b4801.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/048b4801.d
Lab Smp Id: 247565005 Client Smp ID: RE15-10-8248
Inj Date : 01-MAR-2010 18:31
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565005|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8248|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.05000	Weight of sample extracted (g)
M	1.65890	% Moisture

Cpnd Variable Local Compound Variable

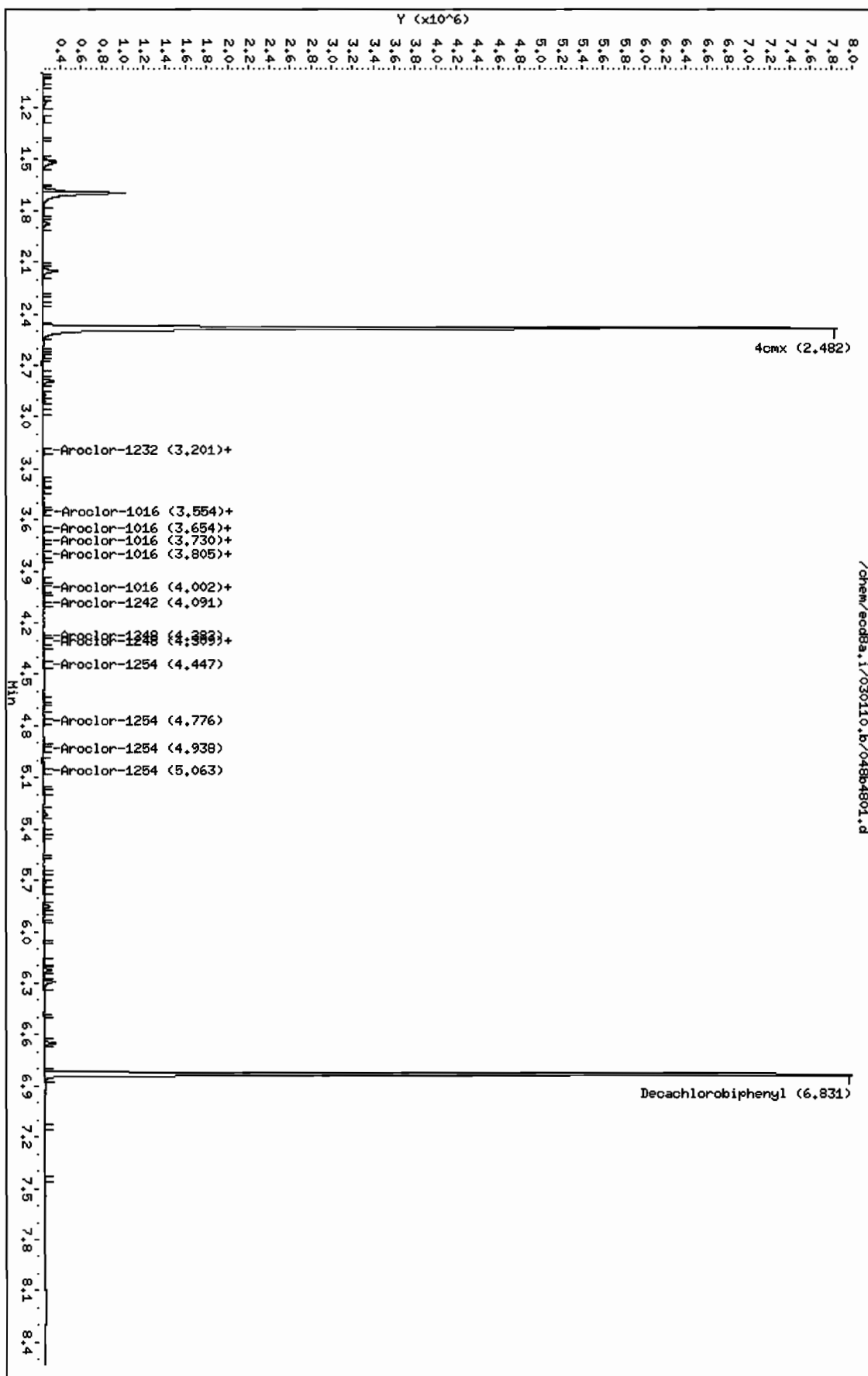
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.482	2.482	0.000	7490656 90.8234	3.1	80.00- 120.00	100.00

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.831	6.830	0.001	8168899 132.531	4.5	80.00- 120.00	100.00

Data File: /chem/ecdb8a.i/030110.b/048b4801.d
 Date: 01-MAR-2010 18:31
 Client ID: RELS-10-8248
 Sample Info: 124756500511
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecdb8a.i
 Operator: JROC
 Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number:	10-1956	Date Collected:	02/15/2010 12:00	Matrix:	R
Lab Sample ID:	247565006	Date Received:	02/20/2010 08:55	%Moisture:	1.7
Client ID:	RE15-10-8249	Client:	LANL010	Project:	LANL01004
Batch ID:	957955	Method:	SW846 8082	SOP Ref:	GL-OA-E-040
Run Date:	03/01/2010 18:43	Inst:	ECD8A.I	Dilution:	1
Prep Date:	02/26/2010 10:21	Analyst:	JAOC	Inj. Vol:	1 uL
Data File:	049f4901.d	Aliquot:	30 g	Final Volume:	1 mL
	049b4901.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	3.39	ug/kg	1.13	3.39	1
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	1
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	1
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	1
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	1
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	1
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	1

Data File: /chem/ecd8a.i/030110.b/049f4901.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/049f4901.d
Lab Smp Id: 247565006 Client Smp ID: RE15-10-8249
Inj Date : 01-MAR-2010 18:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565006|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8249|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.67260	% Moisture

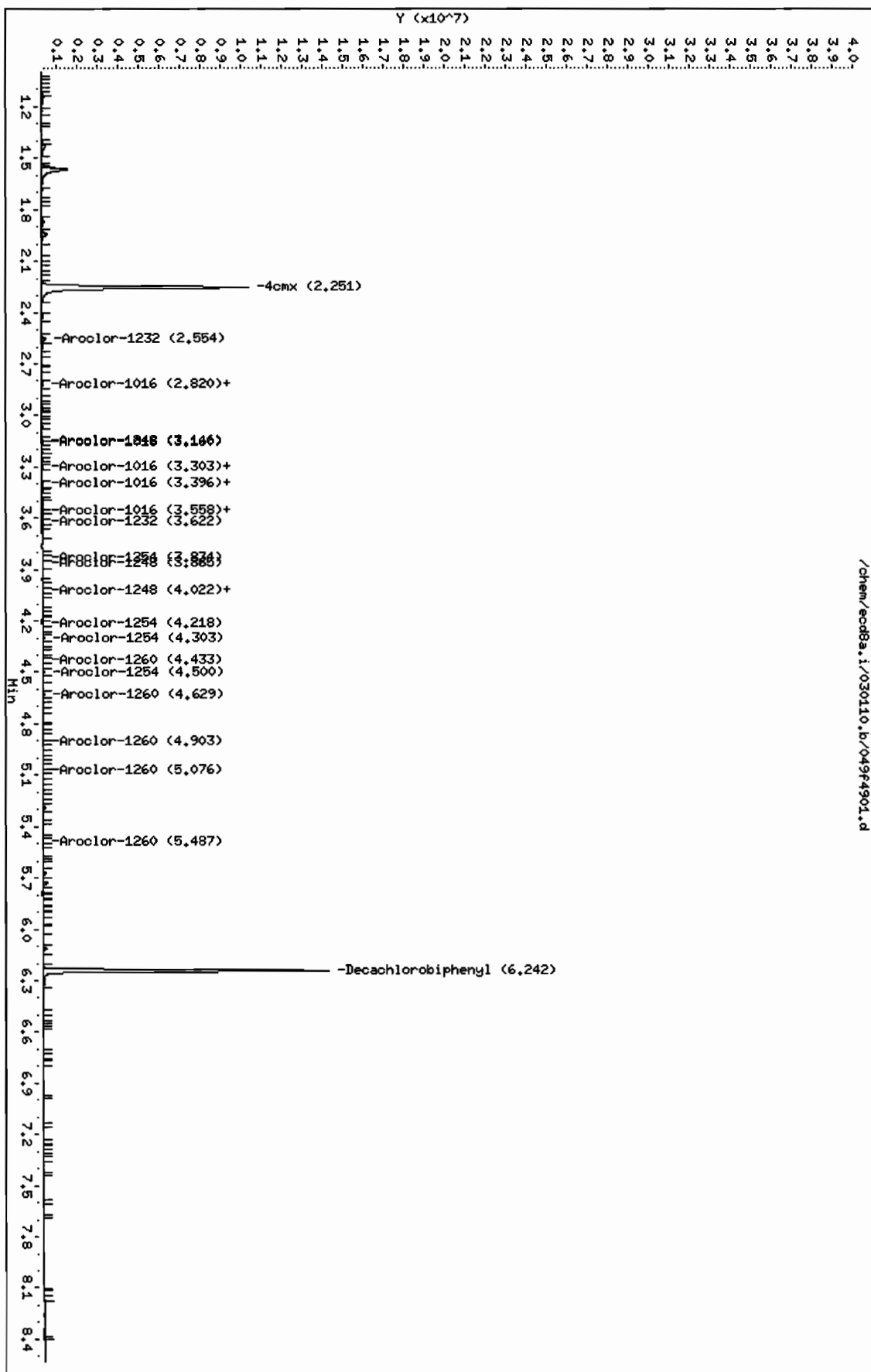
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	11266070	89.4066	3.0 80.00~ 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.242	0.000	12642612	139.979	4.7 80.00~ 120.00	100.00	

Data File: /chem/ecob8a.i/030110.b/049f4901.d
 Date : 01-MAR-2010 18:43
 Client ID: RE15-10-8249
 Sample Info: 1247565006111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecob8a.1
 Operator: JHOC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/049b4901.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/049b4901.d
Lab Smp Id: 247565006 Client Smp ID: RE15-10-8249
Inj Date : 01-MAR-2010 18:43
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565006|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8249|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	1.67260	% Moisture

Cpnd Variable Local Compound Variable

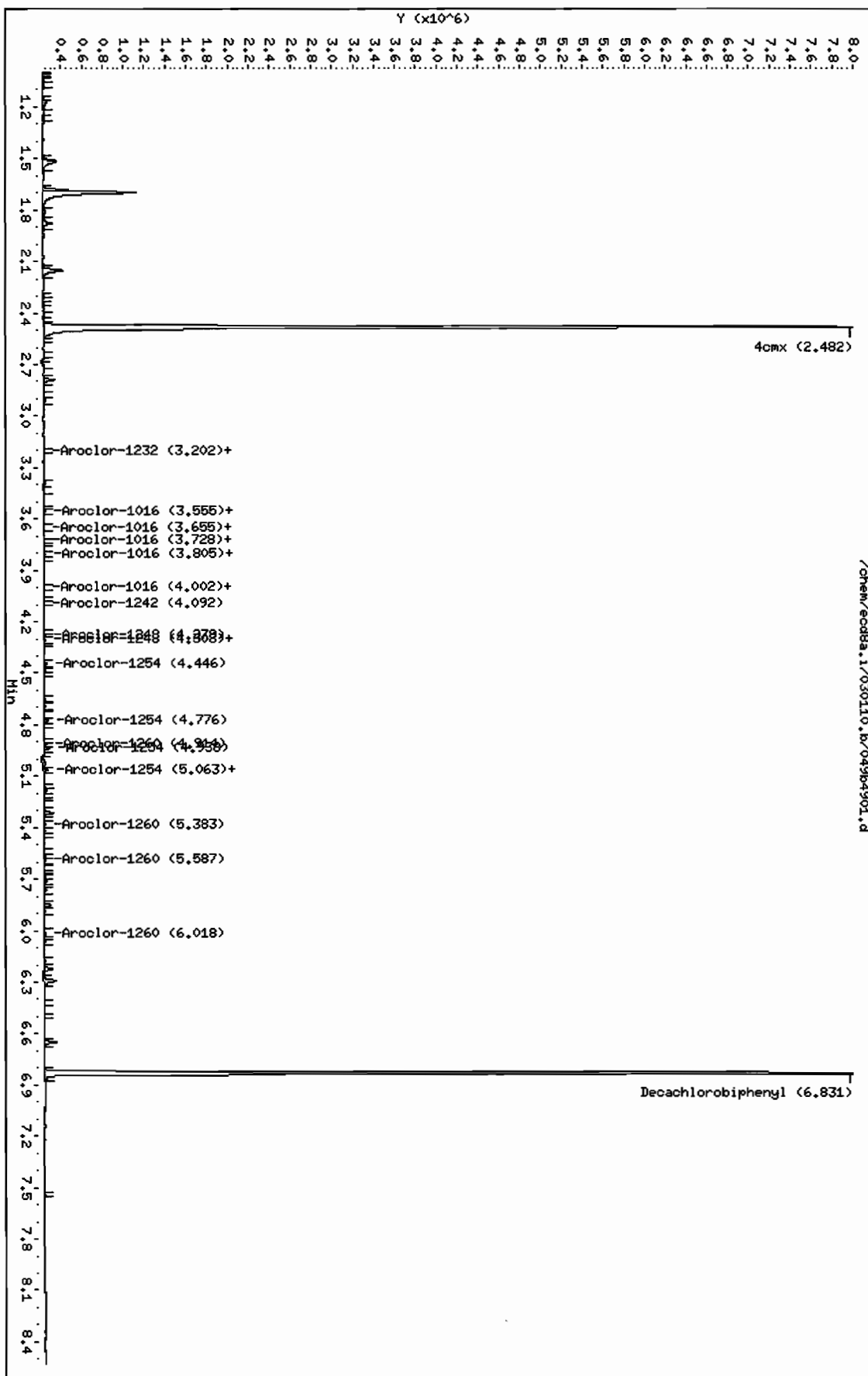
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	8053745	97.6508	3.3 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.830	0.001	8920098	144.718	4.9 80.00- 120.00	100.00	

Data File: /chem/ecob8a.i/030110.b/049b4901.d
 Date: 01-MAR-2010 18:43
 Client ID: RELS-10-8249
 Sample Info: 1247565006111
 Volume Injected (ul): 1.0
 Column phase: CLP2

Instrument: ecob8a.i
 Operator: JROC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565003

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
 2 CLP2

Matrix: R
%Moisture: 2.2
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8250
Batch ID: 957955
Run Date: 03/01/2010 18:06
Prep Date: 02/26/2010 10:21
Data File: 046f4601.d
 046b4601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

Data File: /chem/ecd8a.i/030110.b/046f4601.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/046f4601.d
Lab Smp Id: 247565003 Client Smp ID: RE15-10-8250
Inj Date : 01-MAR-2010 18:06
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565003|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8250|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	2.19540	% Moisture

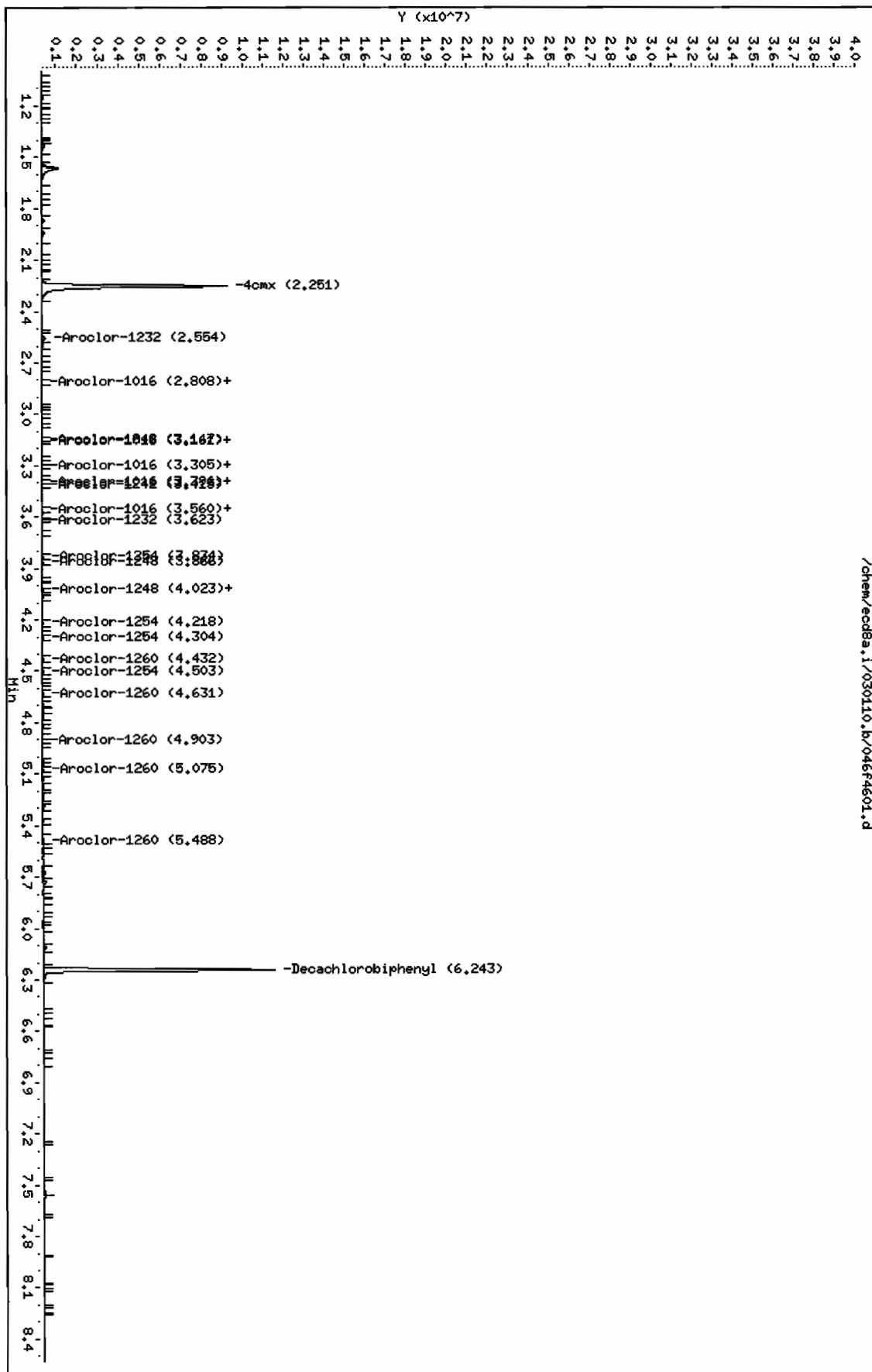
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.251	2.251	0.000	10259340	81.4173	2.8 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.243	6.242	0.001	10354564	114.645	3.9 80.00- 120.00	100.00

Data File: /chem/ecd8a.i/030110.b/046f4601.d
 Date : 01-MAR-2010 18:06
 Client ID: RELS-10-8250
 Sample Info: 1247565003111
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecd8a.i
 Operator: JADC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/046b4601.d
 Report Date: 02-Mar-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/046b4601.d
 Lab Smp Id: 247565003 Client Smp ID: RE15-10-8250
 Inj Date : 01-MAR-2010 18:06
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |247565003|1|
 Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8250|||
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 46
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1956.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	2.19540	% Moisture

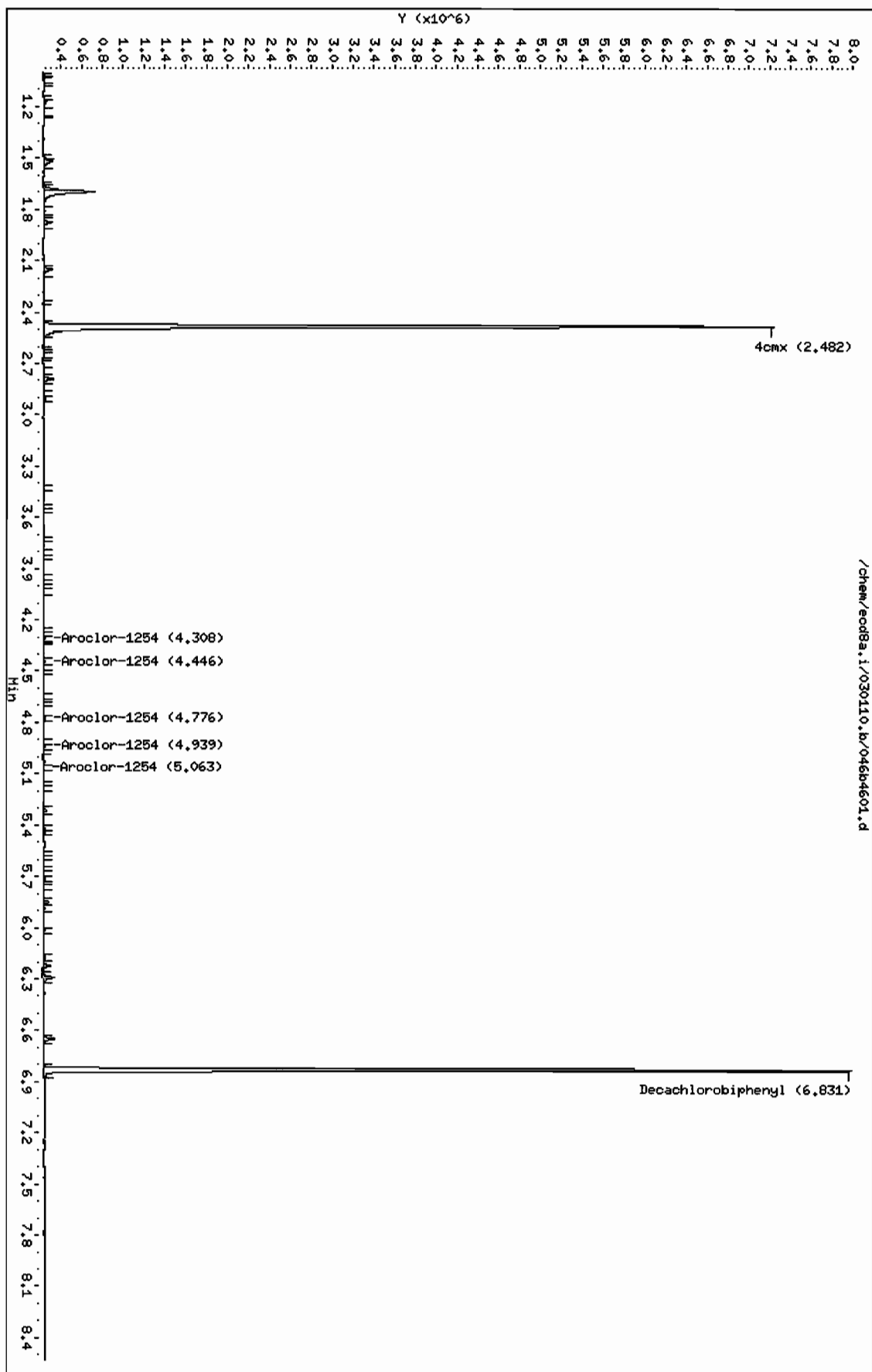
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8 2.482 2.482 0.000 6896868 83.6238 2.8 80.00- 120.00 100.00							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3 6.831 6.830 0.001 7519538 121.996 4.1 80.00- 120.00 100.00							

Data File: /chem/ecob8a.i/030110.b/046b4601.d
Date : 01-MAR-2010 18:06
Client ID: REL5-10-8250
Sample Info: 1247565003111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecob8a.i
Operator: JHOC
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
 Lab Sample ID: 247565004

Date Collected: 02/15/2010 12:00
 Date Received: 02/20/2010 08:55
 Client: LANL010
 Method: SW846 8082
 Inst: ECD8A.I
 Analyst: JAOC
 Aliquot: 30 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 %Moisture: 2.6
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-8251
 Batch ID: 957955
 Run Date: 03/01/2010 18:18
 Prep Date: 02/26/2010 10:21
 Data File: 047f4701.d
 047b4701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecd8a.i/030110.b/047f4701.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/047f4701.d
Lab Smp Id: 247565004 Client Smp ID: RE15-10-8251
Inj Date : 01-MAR-2010 18:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565004|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8251|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.59240	% Moisture

Cpnd Variable Local Compound Variable

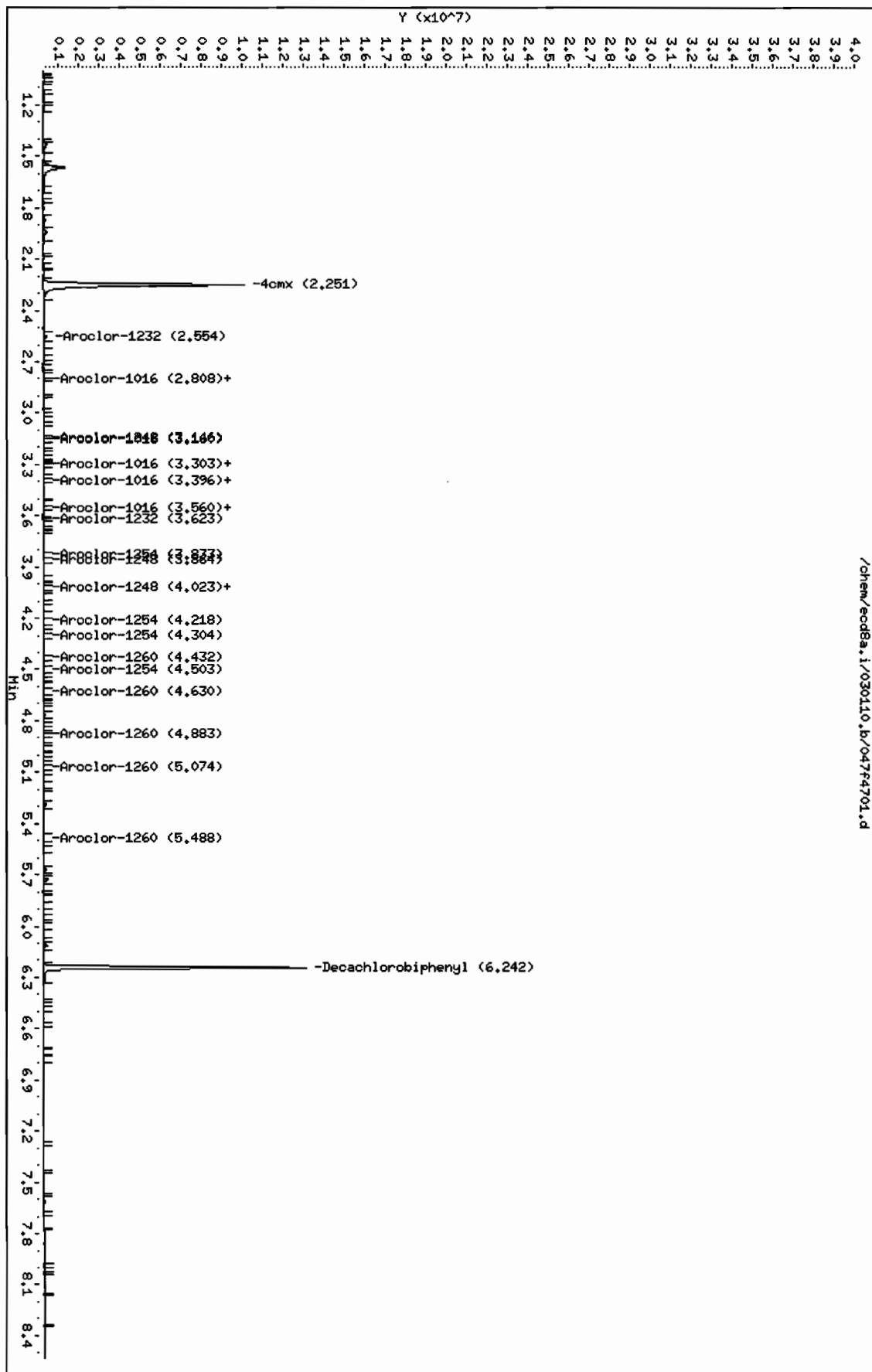
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	10833056 85.9702	2.9	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.242	6.242	0.000	11629482 128.761	4.4	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/030110.b/047f4701.d
Date : 01-MAR-2010 18:18
Client ID: RELS-10-8251
Sample Info: 12475650411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecd8a.i
Operator: JMO
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/047b4701.d
Report Date: 02-Mar-2010 08:30

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/047b4701.d
Lab Smp Id: 247565004 Client Smp ID: RE15-10-8251
Inj Date : 01-MAR-2010 18:18
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565004|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8251|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	2.59240	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

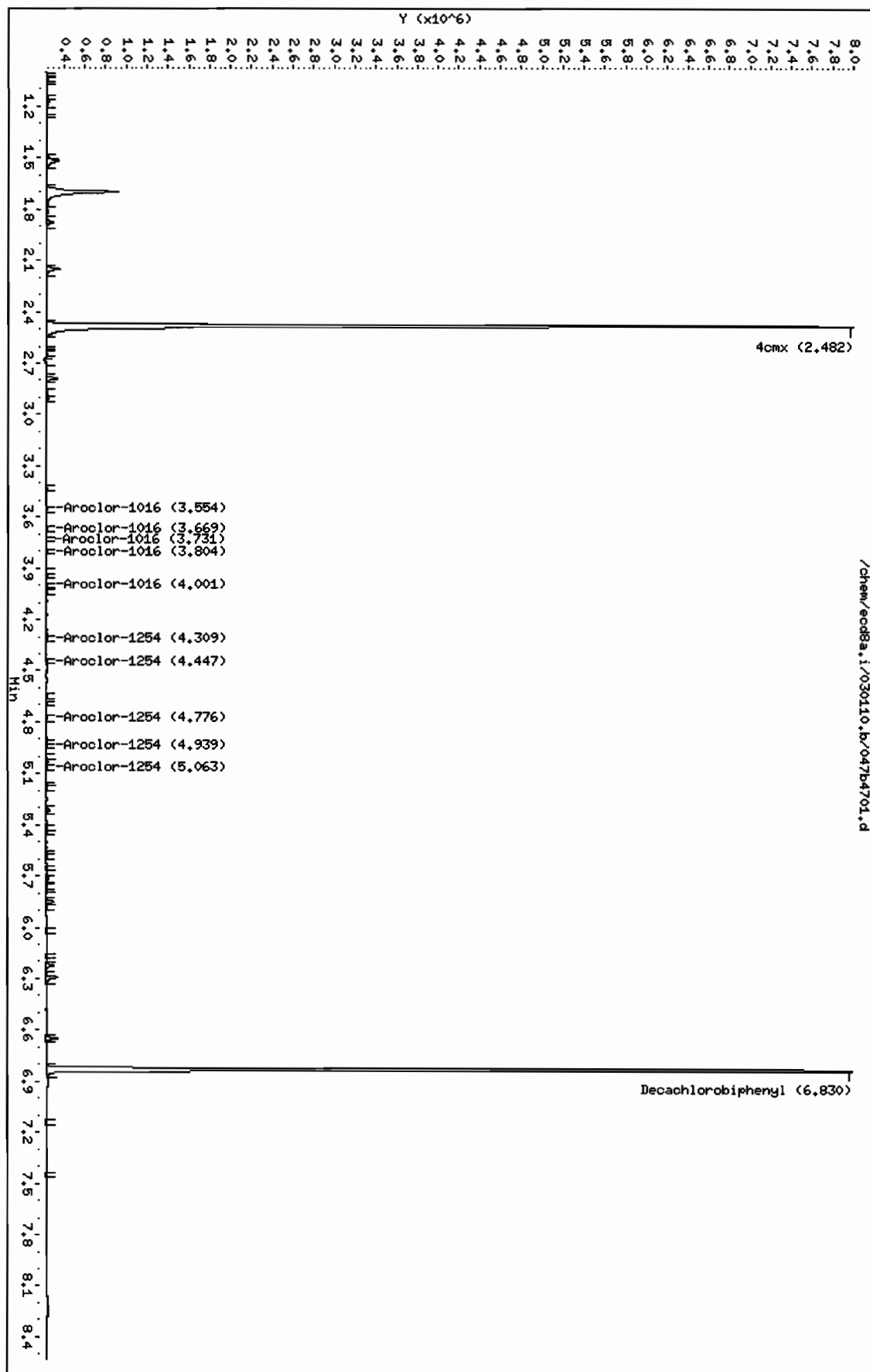
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	7455279 90.3945	3.1	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.830	6.830	0.000	8430440 136.774	4.7	80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/030110.b/047b4701.d
Date: 01-MAR-2010 18:18
Client ID: REL5-10-8251
Sample Info: 1247565004111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecd8a.i
Operator: JACD
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
 Lab Sample ID: 247565001

Date Collected: 02/15/2010 12:00
 Date Received: 02/20/2010 08:55
 Client: LANL010
 Method: SW846 8082
 Inst: ECD8A.I
 Analyst: JAOC
 Aliquot: 30.08 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 %Moisture: 2.8
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-8252
 Batch ID: 957955
 Run Date: 03/01/2010 17:41
 Prep Date: 02/26/2010 10:21
 Data File: 044f4401.d
 044b4401.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecd8a.i/030110.b/044f4401.d
Report Date: 02-Mar-2010 08:29

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/044f4401.d
Lab Smp Id: 247565001 Client Smp ID: RE15-10-8252
Inj Date : 01-MAR-2010 17:41
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565001|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8252|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	2.75950	% Moisture

Cpnd Variable Local Compound Variable

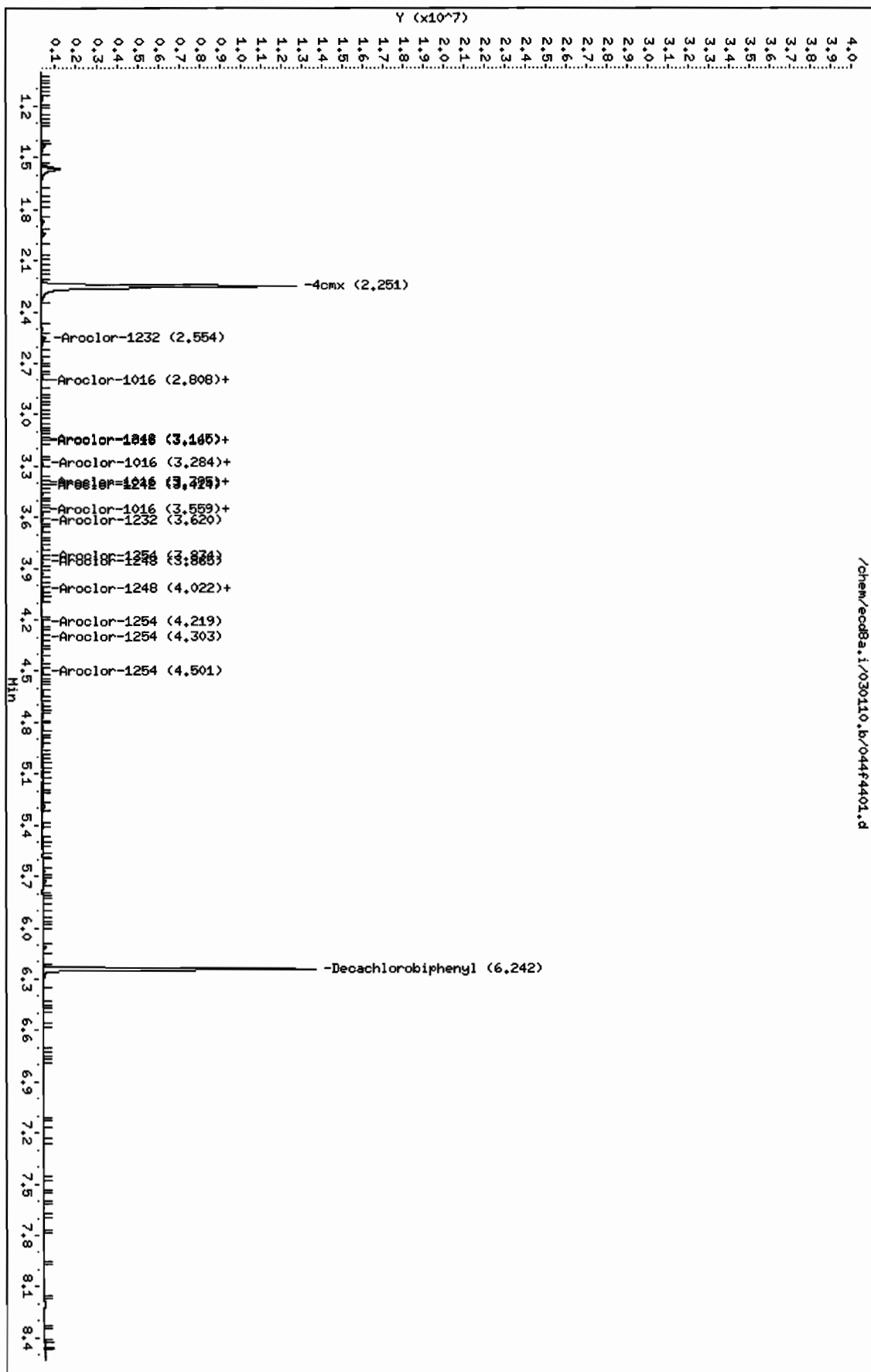
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.251	2.251	0.000	13892304	110.248	3.8 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.242	6.242	0.000	11827455	130.953	4.5 80.00- 120.00	100.00

Data File: /chem/ec08a.i/030110.b/044f4401.d
Date : 01-MAR-2010 17:41
Client ID: REL5-10-8252
Sample Info: 124756500111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ec08a.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/044b4401.d
Report Date: 02-Mar-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/044b4401.d
Lab Smp Id: 247565001 Client Smp ID: RE15-10-8252
Inj Date : 01-MAR-2010 17:41
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565001|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8252|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	2.75950	% Moisture

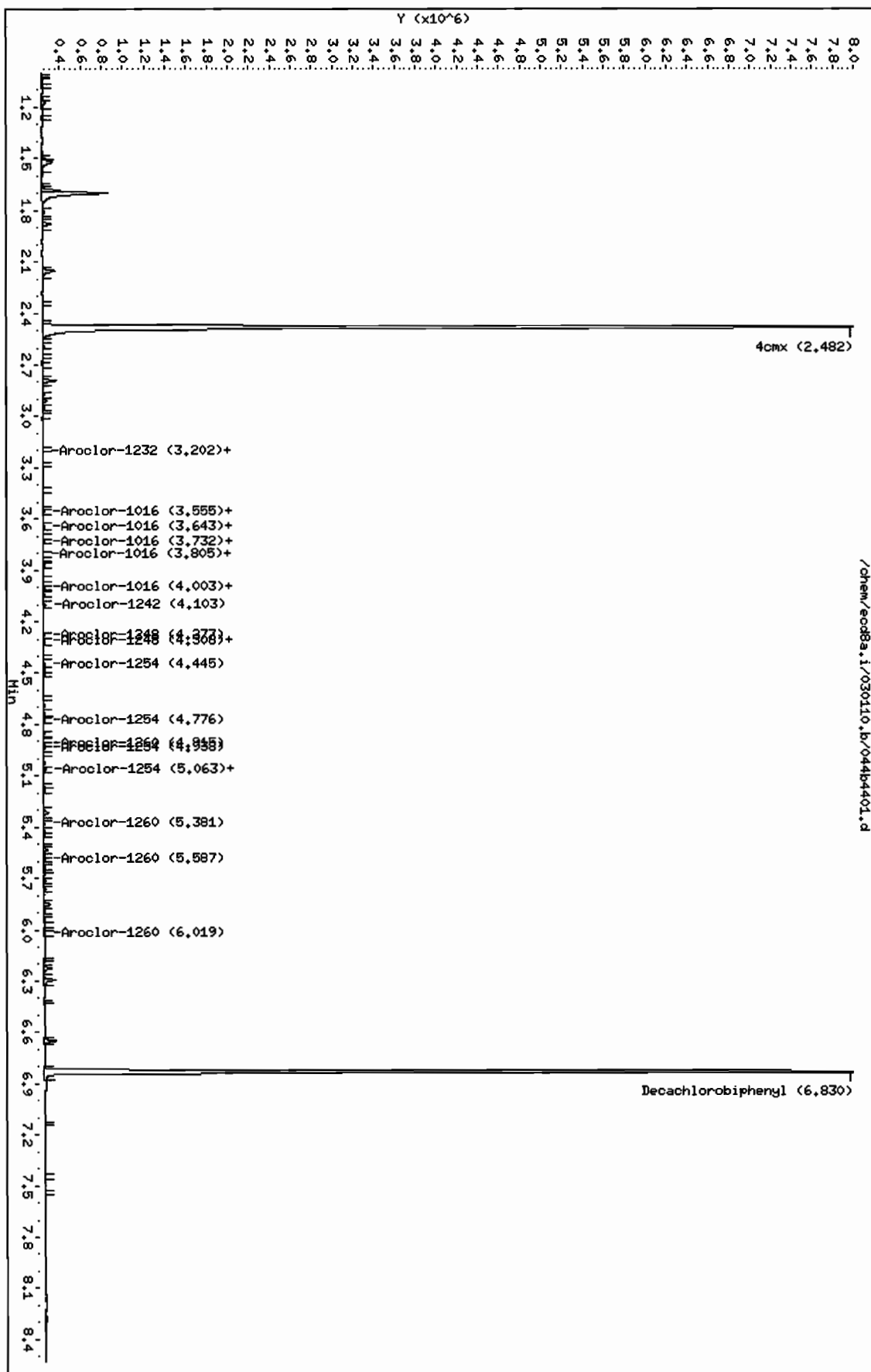
Cpnd Variable Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.482	2.482	0.000	9590689 116.286	4.0	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.830	6.830	0.000	8610109 139.689	4.8	80.00- 120.00	100.00

Data File: /chem/ecob8a.i/030110.b/044b4401.d
Date: 01-MAR-2010 17:41
Client ID: RE15-10-8252
Sample Info: 124756500111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecob8a.i
Operator: JHOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
 Lab Sample ID: 247565002

Date Collected: 02/15/2010 12:00
 Date Received: 02/20/2010 08:55
 Client: LANL010
 Method: SW846 8082
 Inst: ECD8A.I
 Analyst: JAOC
 Aliquot: 30.07 g
 Column: 1 CLP1
 2 CLP2

Matrix: R
 %Moisture: 2.6
 Project: LANL01004
 SOP Ref: GL-OA-E-040
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 1 mL
 Level: LOW

Client ID: RE15-10-8253
 Batch ID: 957955
 Run Date: 03/01/2010 17:53
 Prep Date: 02/26/2010 10:21
 Data File: 045f4501.d
 045b4501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecd8a.i/030110.b/045f4501.d
Report Date: 02-Mar-2010 08:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/045f4501.d
Lab Smp Id: 247565002 Client Smp ID: RE15-10-8253
Inj Date : 01-MAR-2010 17:53
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565002|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8253|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	2.62840	% Moisture

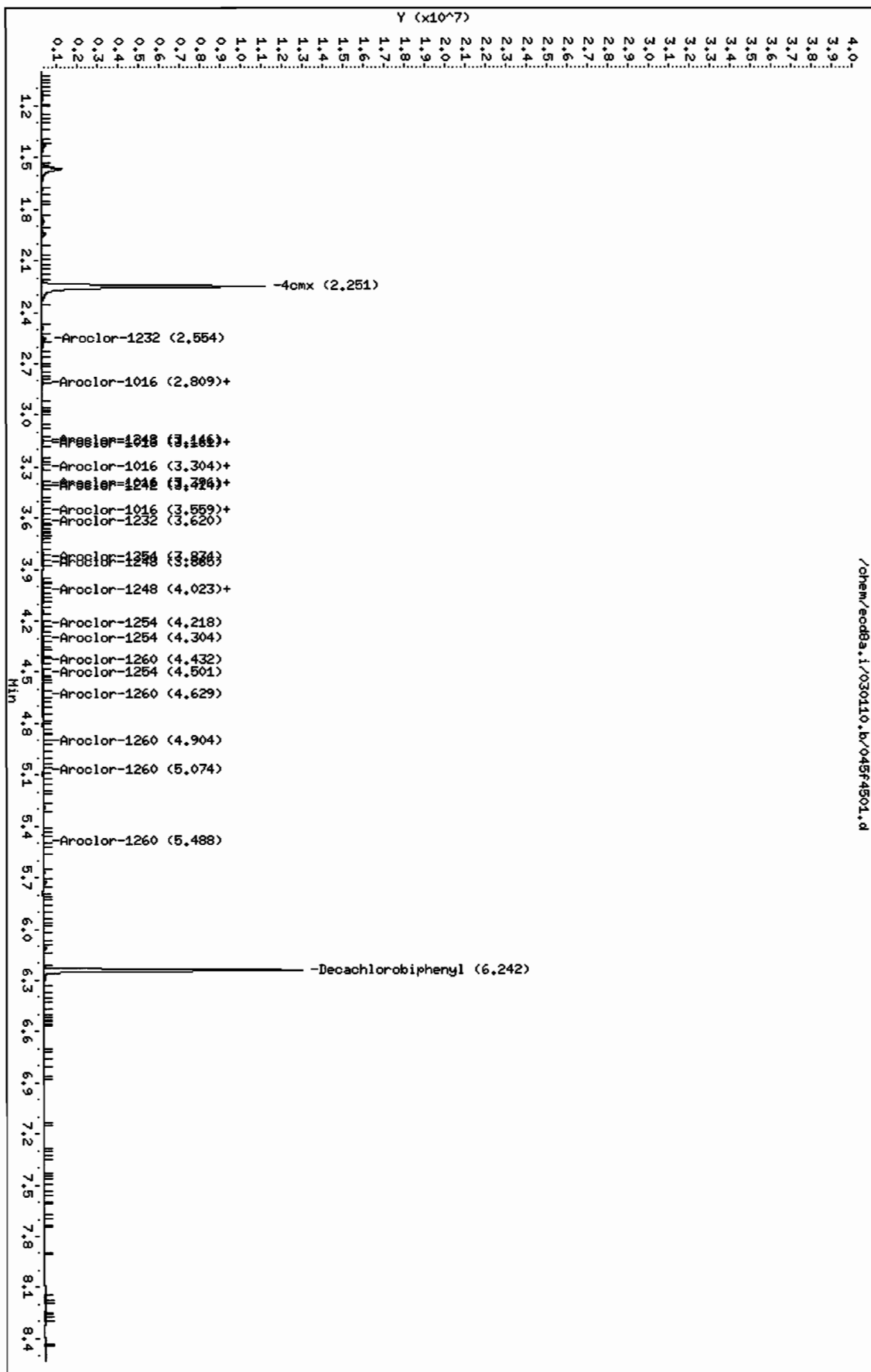
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL (ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
2.251	2.251	0.000	12207197	96.8753	3.3	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.242	6.242	0.000	11299405	125.107	4.3	80.00- 120.00	100.00

Data File: /chem/ecod8a.i/030110.b/045f4501.d
 Date : 01-MAR-2010 17:53
 Client ID: REL5-10-8253
 Sample Info: 124756500211
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecod8a.i
 Operator: JHOC
 Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/045b4501.d
Lab Smp Id: 247565002 Client Smp ID: RE15-10-8253
Inj Date : 01-MAR-2010 17:53
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565002|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8253|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	2.62840	% Moisture

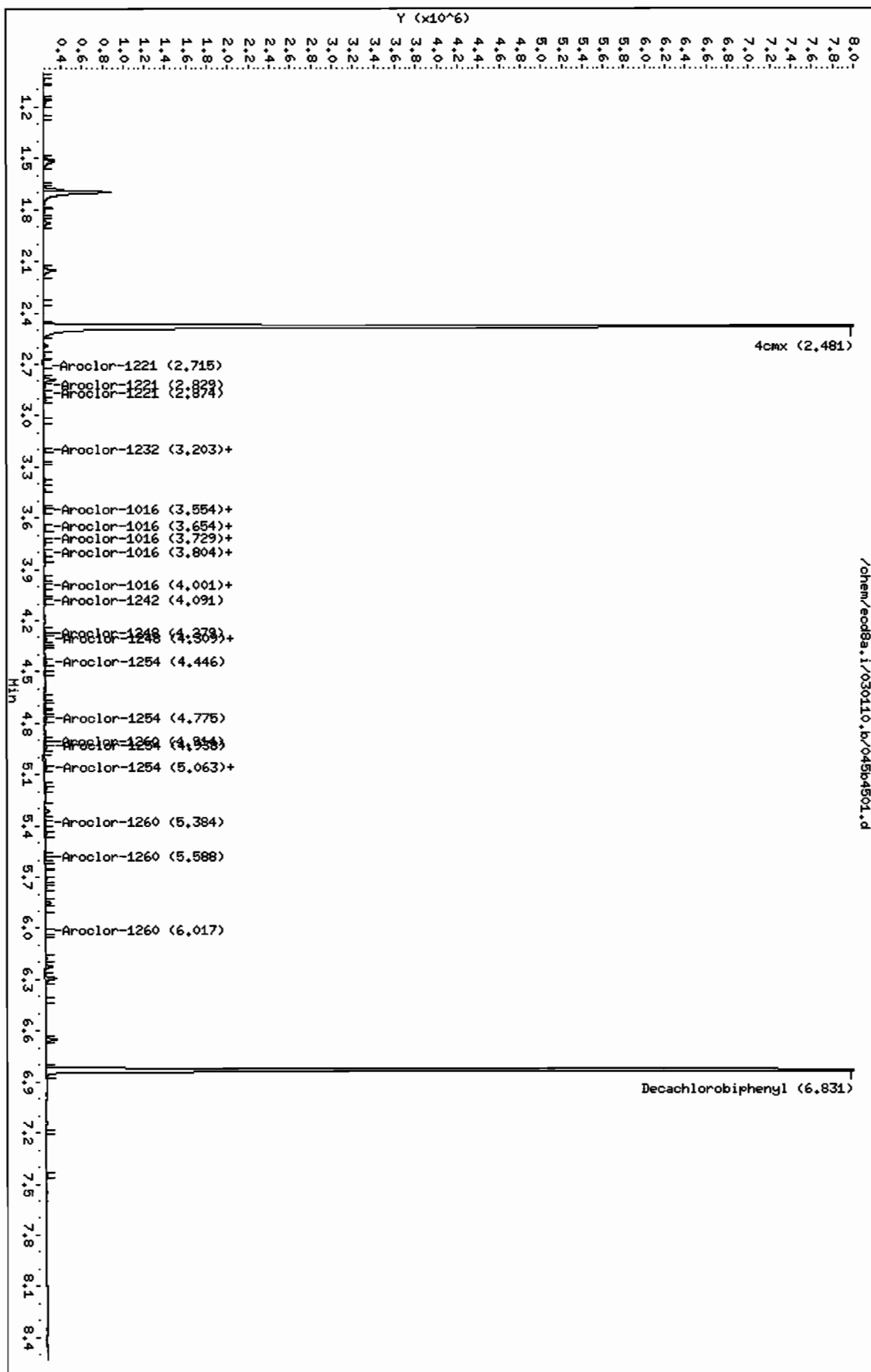
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.481	2.482	-0.001	8516087 103.257	3.5	80.00- 120.00	100.00

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.831	6.830	0.001	8243942 133.748	4.6	80.00- 120.00	100.00

Data File: /chem/eod8a.i/030110.b/045p4501.d
 Date : 01-MAR-2010 17:53
 Client ID: RELS-10-8253
 Sample Info: 124756500211
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: eod8a.i
 Operator: JHOC
 Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565008

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.03 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 1.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8254
Batch ID: 957955
Run Date: 03/01/2010 19:32
Prep Date: 02/26/2010 10:21
Data File: 053f5301.d
053b5301.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	1
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	1
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	1
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	1
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	1
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	1
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	1

Data File: /chem/ecd8a.i/030110.b/053f5301.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/053f5301.d
Lab Smp Id: 247565008 Client Smp ID: RE15-10-8254
Inj Date : 01-MAR-2010 19:32
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565008|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8254|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	1.94560	% Moisture

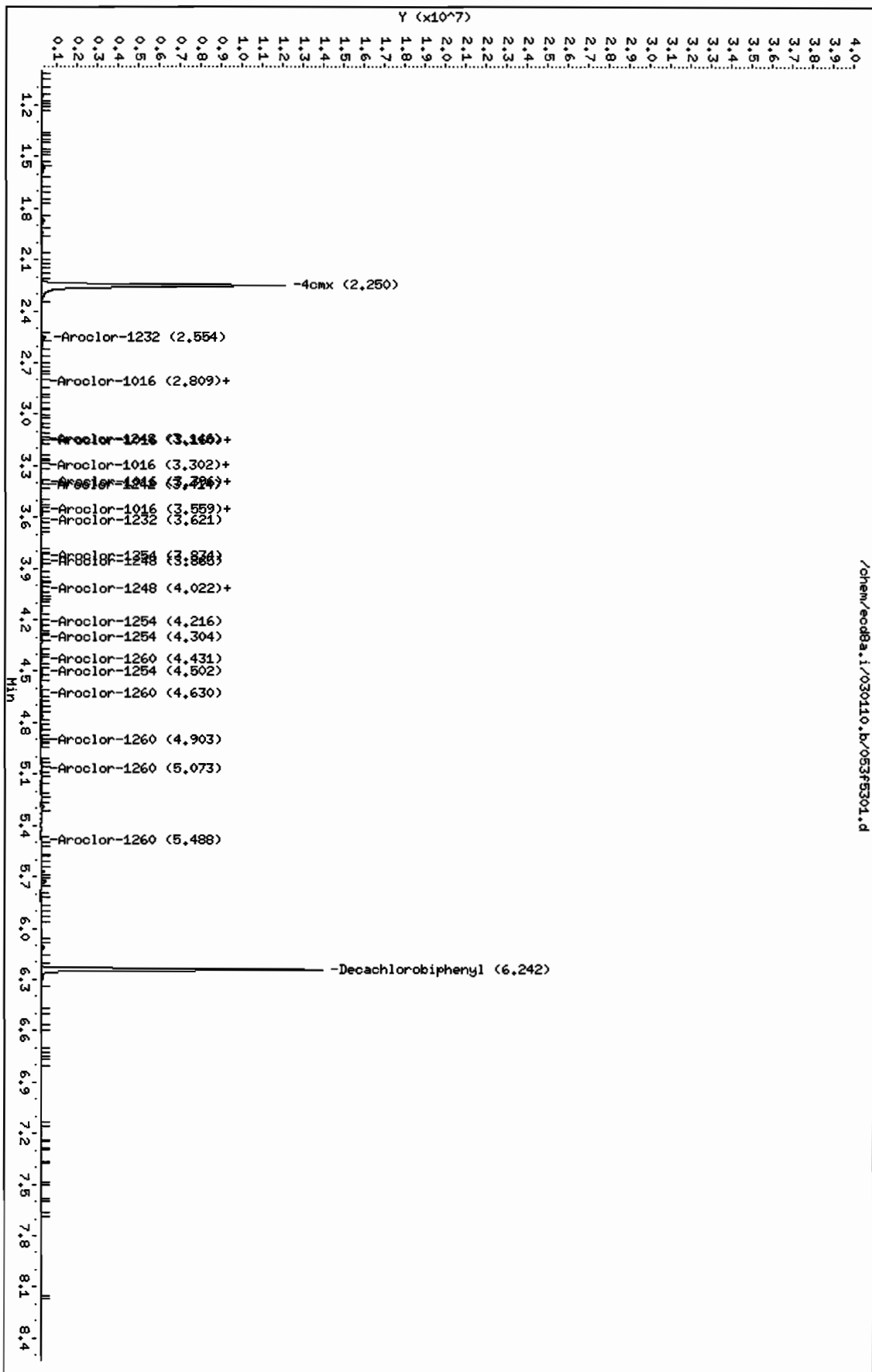
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ug/L)	(ug/Kg)	=====	=====
CAS #: 877-09-8						
2.250	2.251	-0.001	13011289 103.256	3.5	80.00- 120.00	100.00
CAS #: 2051-24-3						
6.242	6.242	0.000	12357046 136.817	4.6	80.00- 120.00	100.00

Data File: /chem/ecdb8a.i/030110.b/053f5301.d
 Date : 01-MAR-2010 19:32
 Client ID: RE15-10-8254
 Sample Info: 124756500811
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdb8a.i
 Operator: JADC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/053b5301.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/053b5301.d
Lab Smp Id: 247565008 Client Smp ID: RE15-10-8254
Inj Date : 01-MAR-2010 19:32
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565008|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8254|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.03000	Weight of sample extracted (g)
M	1.94560	% Moisture

Cpnd Variable Local Compound Variable

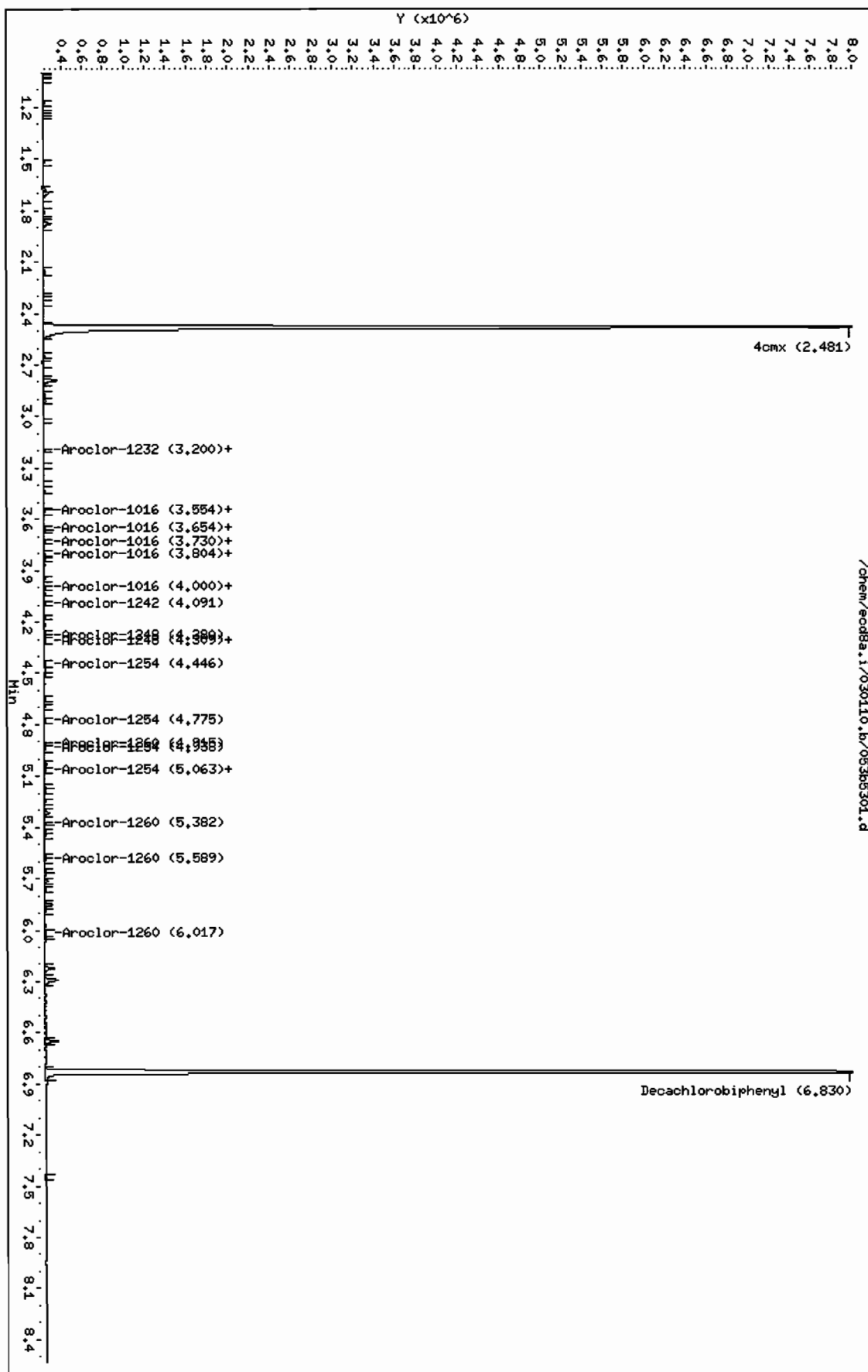
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
=====							
\$ 11 4cmx				CAS #: 877-09-8			
2.481	2.482	-0.001	9030747 109.497	3.7	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.830	6.830	0.000	8964471 145.438	4.9	80.00- 120.00	100.00	

Data File: /chem/ecob8a.i/030110.b/053b5301.d
 Date : 01-MAR-2010 19:32
 Client ID: RELS-10-8254
 Sample Info: 1247565008111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecob8a.i
 Operator: JHOC
 Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

SDG Number: 10-1956
Lab Sample ID: 247565010

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.08 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 3.9
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8264
Batch ID: 957955
Run Date: 03/01/2010 19:57
Prep Date: 02/26/2010 10:21
Data File: 055f5501.d
055b5501.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.46	ug/kg	1.15	3.46	1
11104-28-2	Aroclor-1221	U	3.46	ug/kg	1.15	3.46	1
11141-16-5	Aroclor-1232	U	3.46	ug/kg	1.15	3.46	1
53469-21-9	Aroclor-1242	U	3.46	ug/kg	1.15	3.46	1
12672-29-6	Aroclor-1248	U	3.46	ug/kg	1.15	3.46	1
11097-69-1	Aroclor-1254	U	3.46	ug/kg	1.15	3.46	1
11096-82-5	Aroclor-1260	U	3.46	ug/kg	1.15	3.46	1

Data File: /chem/ecd8a.i/030110.b/055f5501.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/055f5501.d
Lab Smp Id: 247565010 Client Smp ID: RE15-10-8264
Inj Date : 01-MAR-2010 19:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565010|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8264|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	3.86520	% Moisture

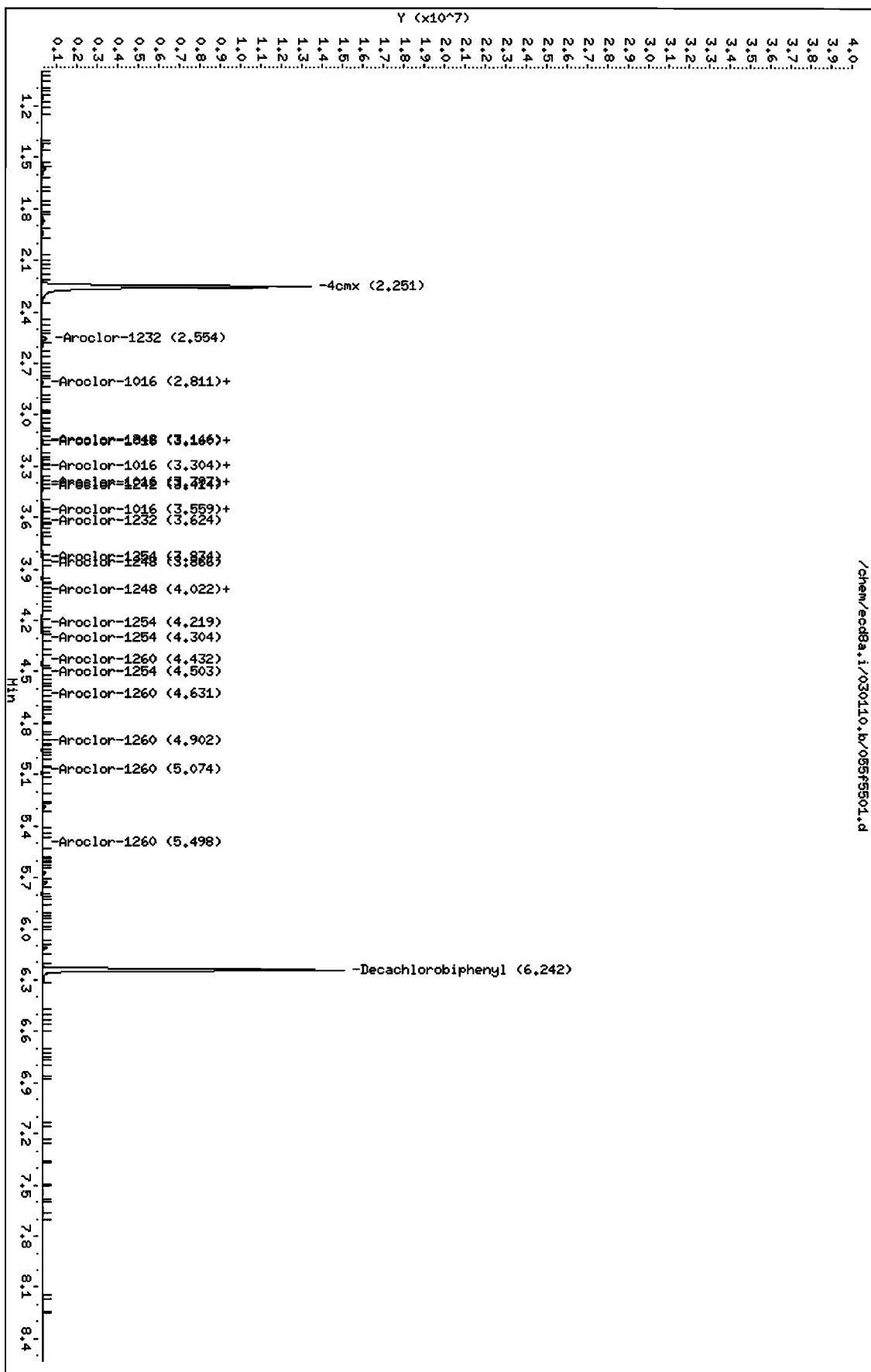
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.251	2.251	0.000	14624707 116.060	4.0 80.00- 120.00	100.00	

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.242	6.242	0.000	13016282 144.116	5.0 80.00- 120.00	100.00	

Data File: /chem/ecdb8a.i/030110.b/055f5501.d
 Date : 01-MAR-2010 19:57
 Client ID: RELB-10-8264
 Sample Info: 124756501011
 Volume Injected (uL): 1.0
 Column phase: CLP1

Instrument: ecdb8a.i
 Operator: JROC
 Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/055b5501.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/055b5501.d
Lab Smp Id: 247565010 Client Smp ID: RE15-10-8264
Inj Date : 01-MAR-2010 19:57
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565010|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8264|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	3.86520	% Moisture

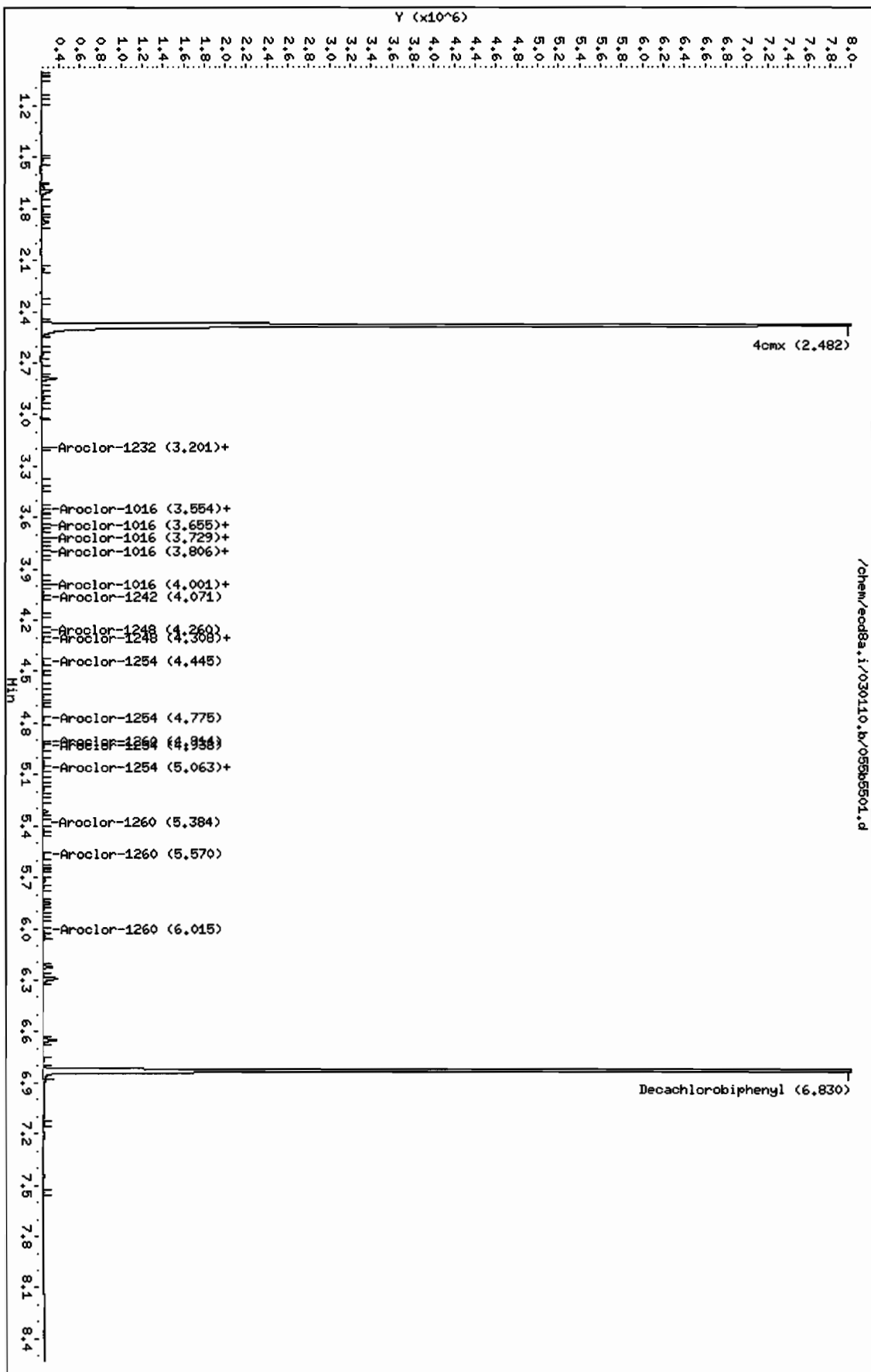
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	10092172	122.367	4.2 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.830	6.830	0.000	9468676	153.618	5.3 80.00- 120.00	100.00	

Data File: /chem/ecdb8a.i/030110.b/05505501.d
Date: 01-MAR-2010 19:57
Client ID: REL5-10-8264
Sample Info: 124756501011
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdb8a.i
Operator: JHOC
Column diameter: 0.25



PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1956
Lab Sample ID: 247565009

Date Collected: 02/15/2010 12:00
Date Received: 02/20/2010 08:55
Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30.09 g
Column: 1 CLP1
2 CLP2

Matrix: R
%Moisture: 2.7
Project: LANL01004
SOP Ref: GL-OA-E-040
Dilution: 1
Inj. Vol: 1 uL
Final Volume: 1 mL
Level: LOW

Client ID: RE15-10-8268
Batch ID: 957955
Run Date: 03/01/2010 19:45
Prep Date: 02/26/2010 10:21
Data File: 054f5401.d
054b5401.d

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	1
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	1
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	1
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	1
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	1
11097-69-1	Aroclor-1254	U	3.42	ug/kg	1.14	3.42	1
11096-82-5	Aroclor-1260	U	3.42	ug/kg	1.14	3.42	1

Data File: /chem/ecd8a.i/030110.b/054f5401.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/054f5401.d
Lab Smp Id: 247565009 Client Smp ID: RE15-10-8268
Inj Date : 01-MAR-2010 19:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565009|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8268|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	2.72000	% Moisture

Cpnd Variable Local Compound Variable

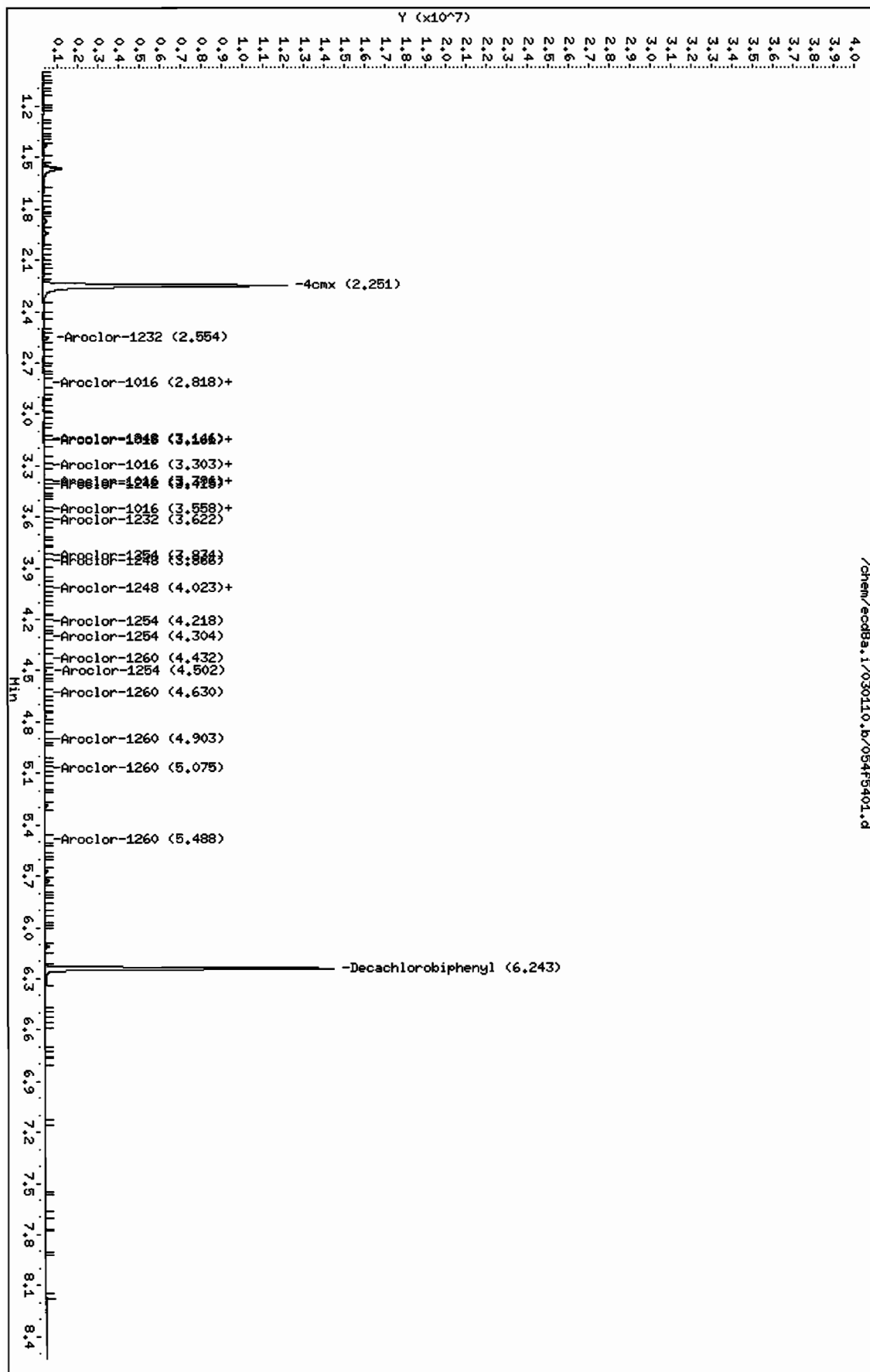
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
\$ 11 4cmx CAS #: 877-09-8						
2.251	2.251	0.000	13292998	105.492	3.6 80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl CAS #: 2051-24-3						
6.243	6.242	0.001	12863024	142.419	4.9 80.00- 120.00	100.00

Data File: /chem/eod8a.i/030110.b/054f5401.d
Date : 01-MAR-2010 19:45
Client ID: REIS-10-8268
Sample Info: 12475600911
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod8a.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/054b5401.d
Report Date: 02-Mar-2010 08:31

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
Data file : /chem/ecd8a.i/030110.b/054b5401.d
Lab Smp Id: 247565009 Client Smp ID: RE15-10-8268
Inj Date : 01-MAR-2010 19:45
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |247565009|1|
Misc Info : |ECD82P_1S|957955|SVA|LANL|SOIL|RE15-10-8268|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	2.72000	% Moisture

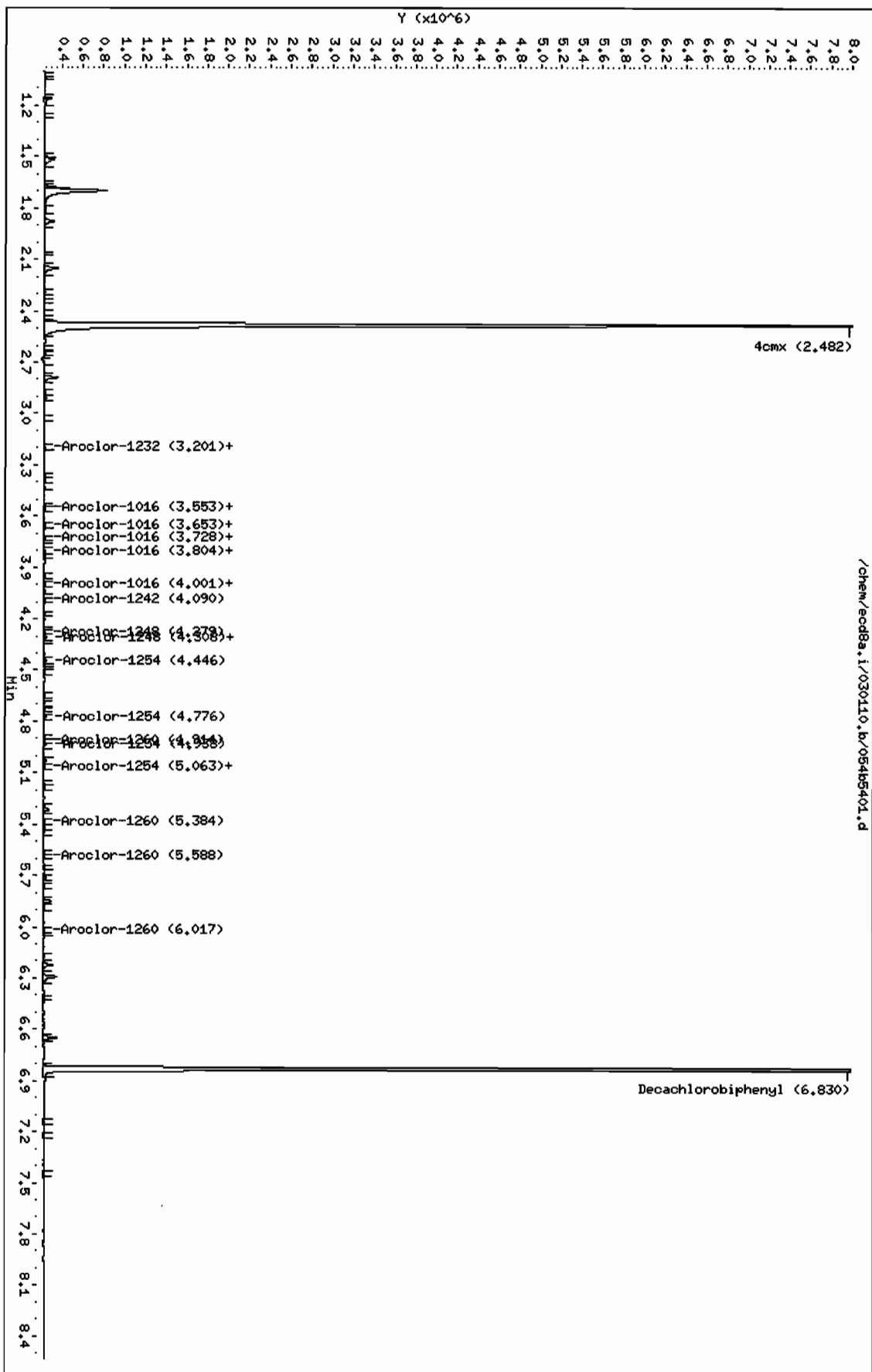
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.482	2.482	0.000	9073861 110.020	3.8 80.00- 120.00	100.00	

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.830	6.830	0.000	9309318 151.033	5.2 80.00- 120.00	100.00	

Data File: /chem/ecd8a.i/030110.b/054b5401.d
 Date : 01-MAR-2010 19:45
 Client ID: RE15-10-8268
 Sample Info: 1247565009111
 Volume Injected (uL): 1.0
 Column phase: CLP2

Instrument: ecd8a.i
 Operator: JROC
 Column diameter: 0.25



STANDARDS DATA

Report Date: 02-Mar-2010 10:02

Calibration History

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013f1301.d
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028f2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020f2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014f1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008f0801.d
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007f0701.d

Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014f1401.d
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029f2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021f2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015f1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009f0901.d
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008f0801.d

Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015f1501.d
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030f3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022f2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016f1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010f1001.d
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009f0901.d

Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036f3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034f3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031f3101.d
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016f1601.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026f2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023f2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017f1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011f1101.d
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010f1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017f1701.d
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032f3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024f2401.d

03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018f1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012f1201.d
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011f1101.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 20:10	AR1660	/chem/ecd8a.i/030110.b/056f5601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 19:08	AR1660	/chem/ecd8a.i/030110.b/051f5101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 16:39	AR1660	/chem/ecd8a.i/030110.b/039f3901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 14:11	AR1660	/chem/ecd8a.i/030110.b/027f2701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 11:42	AR1660	/chem/ecd8a.i/030110.b/015f1501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:28	AR1268	/chem/ecd8a.i/030110.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:16	AR1262	/chem/ecd8a.i/030110.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:03	AR1221	/chem/ecd8a.i/030110.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:51	AR1232	/chem/ecd8a.i/030110.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:38	AR1248	/chem/ecd8a.i/030110.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:26	AR1242	/chem/ecd8a.i/030110.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:14	AR1254	/chem/ecd8a.i/030110.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:01	AR1660	/chem/ecd8a.i/030110.b/002f0201.d

Report Date: 02-Mar-2010 10:02

Calibration History

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Start Cal Date: 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 100.00000		
23-FEB-2010 10:43	AR1221	/chem/ecd8a.i/022310.b/013b1301.d
03-FEB-2010 15:46	AR1262	/chem/ecd8a.i/020310a.b/028b2801.d
03-FEB-2010 14:07	AR1248	/chem/ecd8a.i/020310a.b/020b2001.d
03-FEB-2010 12:53	AR1242	/chem/ecd8a.i/020310a.b/014b1401.d
03-FEB-2010 11:39	AR1254	/chem/ecd8a.i/020310a.b/008b0801.d
23-FEB-2010 09:28	AR1660	/chem/ecd8a.i/022310.b/007b0701.d

Cal Level: 2 , Cal Amount: 250.00000		
23-FEB-2010 10:55	AR1221	/chem/ecd8a.i/022310.b/014b1401.d
03-FEB-2010 15:58	AR1262	/chem/ecd8a.i/020310a.b/029b2901.d
03-FEB-2010 14:19	AR1248	/chem/ecd8a.i/020310a.b/021b2101.d
03-FEB-2010 13:05	AR1242	/chem/ecd8a.i/020310a.b/015b1501.d
03-FEB-2010 11:51	AR1254	/chem/ecd8a.i/020310a.b/009b0901.d
23-FEB-2010 09:41	AR1660	/chem/ecd8a.i/022310.b/008b0801.d

Cal Level: 3 , Cal Amount: 500.00000		
23-FEB-2010 11:07	AR1221	/chem/ecd8a.i/022310.b/015b1501.d
03-FEB-2010 16:11	AR1262	/chem/ecd8a.i/020310a.b/030b3001.d
03-FEB-2010 14:32	AR1248	/chem/ecd8a.i/020310a.b/022b2201.d
03-FEB-2010 13:18	AR1242	/chem/ecd8a.i/020310a.b/016b1601.d
03-FEB-2010 12:03	AR1254	/chem/ecd8a.i/020310a.b/010b1001.d
23-FEB-2010 09:53	AR1660	/chem/ecd8a.i/022310.b/009b0901.d

Cal Level: 4 , Cal Amount: 1000.00000		
03-FEB-2010 17:25	DDT	/chem/ecd8a.i/020310a.b/036b3601.d
03-FEB-2010 17:00	AR1268	/chem/ecd8a.i/020310a.b/034b3401.d
03-FEB-2010 16:23	AR1262	/chem/ecd8a.i/020310a.b/031b3101.d
23-FEB-2010 11:20	AR1221	/chem/ecd8a.i/022310.b/016b1601.d
03-FEB-2010 15:21	AR1232	/chem/ecd8a.i/020310a.b/026b2601.d
03-FEB-2010 14:44	AR1248	/chem/ecd8a.i/020310a.b/023b2301.d
03-FEB-2010 13:30	AR1242	/chem/ecd8a.i/020310a.b/017b1701.d
03-FEB-2010 12:16	AR1254	/chem/ecd8a.i/020310a.b/011b1101.d
23-FEB-2010 10:05	AR1660	/chem/ecd8a.i/022310.b/010b1001.d

Cal Level: 5 , Cal Amount: 4000.00000		
23-FEB-2010 11:32	AR1221	/chem/ecd8a.i/022310.b/017b1701.d
03-FEB-2010 16:36	AR1262	/chem/ecd8a.i/020310a.b/032b3201.d
03-FEB-2010 14:57	AR1248	/chem/ecd8a.i/020310a.b/024b2401.d
03-FEB-2010 13:42	AR1242	/chem/ecd8a.i/020310a.b/018b1801.d
03-FEB-2010 12:28	AR1254	/chem/ecd8a.i/020310a.b/012b1201.d
23-FEB-2010 10:18	AR1660	/chem/ecd8a.i/022310.b/011b1101.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 20:10	AR1660	/chem/ecd8a.i/030110.b/056b5601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 19:08	AR1660	/chem/ecd8a.i/030110.b/051b5101.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 16:39	AR1660	/chem/ecd8a.i/030110.b/039b3901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 14:11	AR1660	/chem/ecd8a.i/030110.b/027b2701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 11:42	AR1660	/chem/ecd8a.i/030110.b/015f1501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 11:42	AR1660	/chem/ecd8a.i/030110.b/015b1501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:28	AR1268	/chem/ecd8a.i/030110.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:16	AR1262	/chem/ecd8a.i/030110.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 10:03	AR1221	/chem/ecd8a.i/030110.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:51	AR1232	/chem/ecd8a.i/030110.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:38	AR1248	/chem/ecd8a.i/030110.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:26	AR1242	/chem/ecd8a.i/030110.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:14	AR1254	/chem/ecd8a.i/030110.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
01-MAR-2010 09:01	AR1660	/chem/ecd8a.i/030110.b/002b0201.d

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 08:27 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold 758.000000
Initial:End Threshold 379.000000
Initial:Area Threshold 734.000000
Initial:P-P Resolution 1.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 1.500000
6.500:Bunch Factor 2.000000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	2.808	2.778-2.838	4.551e+03
	3.160	3.130-3.190	5.610e+03
	3.303	3.273-3.333	2.392e+03
	3.397	3.367-3.427	2.141e+03
	3.558	3.528-3.588	3.099e+03
2 Aroclor-1221	2.392	2.362-2.422	1.568e+03
	2.507	2.477-2.537	9.154e+02
	2.539	2.509-2.569	3.573e+03
3 Aroclor-1232	2.539	2.509-2.569	2.601e+03
	2.809	2.780-2.840	2.261e+03
	3.304	3.275-3.334	1.243e+03
	3.559	3.530-3.590	1.479e+03
4 Aroclor-1242	3.620	3.590-3.650	9.227e+02
	2.810	2.780-2.840	3.974e+03
	3.160	3.130-3.190	4.796e+03
	3.396	3.366-3.426	1.805e+03
	3.414	3.384-3.444	1.889e+03
5 Aroclor-1248	3.559	3.529-3.589	2.645e+03
	3.146	3.116-3.176	2.990e+03
	3.396	3.366-3.426	3.823e+03
	3.559	3.529-3.589	5.000e+03
	3.865	3.835-3.895	5.990e+03
	4.024	3.994-4.054	4.826e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.834	3.804-3.864	4.785e+03
	4.021	3.991-4.051	6.569e+03
	4.217	4.187-4.247	5.138e+03
	4.303	4.273-4.333	8.797e+03
	4.499	4.469-4.529	6.914e+03
7 Aroclor-1260	4.432	4.402-4.462	6.476e+03
	4.627	4.597-4.657	9.548e+03
	4.902	4.872-4.932	5.666e+03
	5.075	5.045-5.105	5.904e+03
	5.487	5.457-5.517	6.229e+03
8 Aroclor-1262	4.334	4.304-4.364	3.367e+03
	4.433	4.403-4.463	5.243e+03
	4.628	4.598-4.658	7.103e+03
	4.903	4.873-4.933	8.580e+03
	5.076	5.046-5.106	7.966e+03
9 Aroclor-1268	5.512	5.482-5.542	1.632e+04
	5.538	5.508-5.568	1.572e+04
	5.671	5.641-5.701	1.207e+04
	5.917	5.887-5.947	6.023e+03
	6.113	6.083-6.143	3.601e+04
M 10 Aroclor-Total	1.000	0.980-1.020	
\$ 11 4cmx	2.251	2.221-2.281	1.260e+05
\$ 12 Decachlorobiphenyl	6.242	6.212-6.272	9.032e+04
13 4,4'-DDT	4.852	4.832-4.872	2.393e+04
14 4,4'-DDD	4.658	4.638-4.678	1.570e+05
15 4,4'-DDE	4.234	4.214-4.254	1.340e+05

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Quant Method : ESTD Target Version : 3.50
 Last Update : 02-Mar-2010 08:21 Number of Cpnds : 15
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold 733.000000
Initial:End Threshold 366.500000
Initial:Area Threshold 522.000000
Initial:P-P Resolution 0.000000
Initial:Bunch Factor 2.000000
Initial:Negative Peaks OFF
Initial:Tension 2.000000
9.000:Bunch Factor 2.000000
  
```

Compound	RT	RT Window	RF
1 Aroclor-1016	3.554	3.524-3.584	3.619e+03
	3.653	3.623-3.683	2.410e+03
	3.729	3.699-3.759	1.453e+03
	3.804	3.774-3.834	1.434e+03
	4.001	3.971-4.031	1.958e+03
2 Aroclor-1221	2.723	2.693-2.753	9.481e+02
	2.835	2.805-2.865	5.911e+02
	2.883	2.853-2.913	2.179e+03
3 Aroclor-1232	3.201	3.171-3.231	1.515e+03
	3.554	3.525-3.584	1.744e+03
	3.654	3.624-3.684	1.176e+03
	3.730	3.700-3.760	7.101e+02
4 Aroclor-1242	3.804	3.775-3.834	6.182e+02
	3.201	3.171-3.231	2.677e+03
	3.554	3.524-3.584	3.126e+03
	3.653	3.623-3.683	2.127e+03
5 Aroclor-1248	4.001	3.971-4.031	1.703e+03
	4.090	4.060-4.120	1.567e+03
	3.653	3.623-3.683	1.427e+03
	3.805	3.775-3.835	2.467e+03
	4.001	3.971-4.031	3.089e+03
	4.279	4.249-4.309	3.647e+03
	4.311	4.281-4.341	4.004e+03

GEL Laboratories LLC

COMPOUND LISTING

Method file : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Compound		RT	RT Window	RF
6 Aroclor-1254		4.308	4.278-4.338	3.450e+03
		4.446	4.416-4.476	3.910e+03
		4.775	4.745-4.805	5.500e+03
		4.937	4.907-4.967	4.011e+03
		5.062	5.032-5.092	2.549e+03
7 Aroclor-1260		4.913	4.883-4.943	3.967e+03
		5.062	5.032-5.092	4.809e+03
		5.379	5.349-5.409	3.680e+03
		5.586	5.556-5.616	3.826e+03
8 Aroclor-1262		6.017	5.987-6.047	5.994e+03
		4.914	4.884-4.944	3.276e+03
		5.063	5.033-5.093	3.827e+03
		5.380	5.350-5.410	5.446e+03
9 Aroclor-1268		5.587	5.557-5.617	5.047e+03
		6.016	5.986-6.046	7.196e+03
		6.013	5.983-6.043	1.138e+04
		6.046	6.016-6.076	1.041e+04
		6.224	6.194-6.254	8.192e+03
M 10 Aroclor-Total		6.421	6.391-6.451	4.057e+03
		6.650	6.620-6.680	2.464e+04
		1.000	0.980-1.020	
	\$ 11 4cmx	2.482	2.452-2.512	8.247e+04
	\$ 12 Decachlorobiphenyl	6.830	6.800-6.860	6.164e+04
	13 4,4'-DDT	5.323	5.303-5.343	1.460e+04
	14 4,4'-DDD	5.102	5.082-5.122	1.001e+05
	15 4,4'-DDE	4.691	4.671-4.711	8.898e+04

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
End Cal Date : 23-FEB-2010 11:32
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Cal Date : 02-Mar-2010 08:27 jen01212
Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013f1301.d
Level 2: /chem/ecd8a.i/022310.b/014f1401.d
Level 3: /chem/ecd8a.i/022310.b/015f1501.d
Level 4: /chem/ecd8a.i/020310a.b/036f3601.d
Level 5: /chem/ecd8a.i/022310.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)	5184	5051	4636	4164	3722	4551	13.432
(2)	5955	5983	5682	5356	5075	5610	6.983
(3)	2525	2613	2438	2236	2150	2392	8.137
(4)	2419	2376	2156	1934	1819	2141	12.343
(5)	3374	3397	3129	2891	2705	3099	9.729
2 Aroclor-1221(1)	1843	1746	1580	1468	1203	1568	15.964
(2)	1118	1046	917	835	660	915	19.675
(3)	4334	3992	3544	3325	2672	3573	17.859
3 Aroclor-1232(1)	++++	++++	++++	2601	++++	2601	0.000
(2)	++++	++++	++++	2261	++++	2261	0.000
(3)	++++	++++	++++	1243	++++	1243	0.000
(4)	++++	++++	++++	1479	++++	1479	0.000
(5)	++++	++++	++++	923	++++	923	0.000
4 Aroclor-1242(1)	4726	4372	4070	3706	2998	3974	16.680
(2)	5172	5152	4949	4680	4027	4796	9.873
(3)	2139	1968	1820	1683	1417	1805	15.251
(4)	2229	2050	1908	1759	1500	1889	14.735
(5)	3065	2855	2678	2500	2127	2645	13.507
5 Aroclor-1248(1)	3599	3150	2999	2805	2397	2990	14.793
(2)	4688	4030	3804	3549	3043	3823	15.884
(3)	6028	5281	4903	4737	4053	5000	14.533
(4)	7068	6330	5909	5676	4965	5990	13.024
(5)	5743	5075	4737	4591	3986	4826	13.394
6 Aroclor-1254(1)	5857	5096	4715	4450	3806	4785	15.921
(2)	7961	7038	6468	6172	5208	6569	15.558
(3)	6032	5571	5105	4741	4242	5138	13.582
(4)	10107	9649	8877	8173	7180	8797	13.271
(5)	7953	7619	6996	6322	5678	6914	13.452

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Cal Date : 02-Mar-2010 08:27 jen01212
 Curve Type : Average

	100.000	250.000	500.000	1000.000	4000.000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
7 Aroclor-1260(1)	7011	7159	6444	6079	5685	6476	9.568
(2)	10286	10384	9540	9039	8493	9548	8.467
(3)	6319	6091	5552	5308	5058	5666	9.329
(4)	6626	6271	5777	5525	5322	5904	9.102
(5)	6986	6455	6034	5888	5781	6229	7.946
8 Aroclor-1262(1)	3851	3558	3311	3256	2859	3367	10.954
(2)	5935	5551	5239	5102	4386	5243	10.995
(3)	7996	7523	7022	6963	6012	7103	10.414
(4)	9555	9028	8567	8433	7318	8580	9.694
(5)	8875	8357	7946	7802	6850	7966	9.421
9 Aroclor-1268(1)	++++	++++	++++	16324	++++	16324	0.000
(2)	++++	++++	++++	15723	++++	15723	0.000
(3)	++++	++++	++++	12075	++++	12075	0.000
(4)	++++	++++	++++	6023	++++	6023	0.000
(5)	++++	++++	++++	36012	++++	36012	0.000
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	23929	++++	23929	0.000
14 4,4'-DDD	++++	++++	++++	157020	++++	157020	0.000
15 4,4'-DDE	++++	++++	++++	133975	++++	133975	0.000
11 4cmx	129289	131757	127787	121546	119668	126009	4.106
12 Decachlorobiphenyl	104555	92006	87870	84335	82825	90318	9.644

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Cal Date : 02-Mar-2010 08:21 jen01212
 Curve Type : Average

Calibration File Names:

Level 1: /chem/ecd8a.i/022310.b/013b1301.d
 Level 2: /chem/ecd8a.i/022310.b/014b1401.d
 Level 3: /chem/ecd8a.i/022310.b/015b1501.d
 Level 4: /chem/ecd8a.i/020310a.b/036b3601.d
 Level 5: /chem/ecd8a.i/022310.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)	3700	3563	3621	3616	3597	3619	1.393
(2)	2616	2439	2406	2318	2272	2410	5.524
(3)	1536	1447	1442	1402	1439	1453	3.402
(4)	1585	1460	1422	1359	1342	1434	6.769
(5)	2095	1991	1936	1896	1874	1958	4.503
2 Aroclor-1221(1)	1008	1017	964	925	826	948	8.179
(2)	642	644	604	571	494	591	10.518
(3)	2384	2349	2220	2116	1827	2179	10.256
3 Aroclor-1232(1)	++++	++++	++++	1515	++++	1515	0.000
(2)	++++	++++	++++	1744	++++	1744	0.000
(3)	++++	++++	++++	1176	++++	1176	0.000
(4)	++++	++++	++++	710	++++	710	0.000
(5)	++++	++++	++++	618	++++	618	0.000
4 Aroclor-1242(1)	2949	2857	2758	2609	2213	2677	10.779
(2)	3213	3196	3180	3232	2808	3126	5.721
(3)	2287	2232	2178	2099	1842	2127	8.178
(4)	1820	1782	1741	1678	1497	1703	7.463
(5)	1675	1595	1607	1522	1434	1567	5.872
5 Aroclor-1248(1)	1621	1511	1422	1366	1213	1427	10.773
(2)	2779	2594	2491	2383	2090	2467	10.392
(3)	3403	3233	3131	3022	2657	3089	9.043
(4)	3964	3788	3692	3588	3204	3647	7.785
(5)	4333	4155	4060	3948	3526	4004	7.553
6 Aroclor-1254(1)	3700	3695	3475	3389	2993	3450	8.395
(2)	4204	4194	3940	3836	3377	3910	8.648
(3)	5766	5885	5570	5452	4827	5500	7.494
(4)	4254	4252	4044	3942	3562	4011	7.104
(5)	2775	2711	2546	2462	2250	2549	8.187

GEL Laboratories LLC
INITIAL CALIBRATION DATA

Start Cal Date : 03-FEB-2010 10:24
 End Cal Date : 23-FEB-2010 11:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Cal Date : 02-Mar-2010 08:21 jen01212
 Curve Type : Average

Compound	100.000 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
7 Aroclor-1260(1)	4253	3988	3955	3849	3788	3967	4.519
(2)	5113	4816	4799	4685	4631	4809	3.886
(3)	3914	3673	3654	3574	3584	3680	3.741
(4)	4047	3810	3802	3720	3750	3826	3.378
(5)	6273	5947	5927	5853	5968	5994	2.707
8 Aroclor-1262(1)	3545	3367	3269	3249	2948	3276	6.635
(2)	4038	3929	3844	3825	3498	3827	5.277
(3)	5683	5613	5515	5463	4958	5446	5.255
(4)	5266	5178	5090	5067	4633	5047	4.838
(5)	7327	7356	7286	7270	6740	7196	3.572
9 Aroclor-1268(1)	++++	++++	++++	11384	++++	11384	0.000
(2)	++++	++++	++++	10412	++++	10412	0.000
(3)	++++	++++	++++	8192	++++	8192	0.000
(4)	++++	++++	++++	4057	++++	4057	0.000
(5)	++++	++++	++++	24640	++++	24640	0.000
10 Aroclor-Total	++++	++++	++++	++++	++++	++++	++++
13 4,4'-DDT	++++	++++	++++	14596	++++	14596	0.000
14 4,4'-DDD	++++	++++	++++	100145	++++	100145	0.000
15 4,4'-DDE	++++	++++	++++	88982	++++	88982	0.000
11 4cmx	82185	80840	82752	82147	84451	82475	1.586
12 Decachlorobiphenyl	65682	61409	60606	59658	60834	61638	3.808

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.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 0901
 Lab File ID: 002F0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4505.528	0.01	-1.0	15.0
(2)	5610.061	5562.570	0.01	-0.8	15.0
(3)	2392.299	2339.023	0.01	-2.2	15.0
(4)	2140.620	2099.842	0.01	-1.9	15.0
(5)	3099.161	3043.526	0.01	-1.8	15.0
Aroclor-1260	6475.551	6173.788	0.01	-4.7	15.0
(2)	9548.264	9140.064	0.01	-4.3	15.0
(3)	5665.674	5322.119	0.01	-6.1	15.0
(4)	5904.028	5526.952	0.01	-6.4	15.0
(5)	6228.823	5725.372	0.01	-8.1	15.0
4cmx	126009.40	131211.35	0.01	4.1	15.0
Decachlorobiphenyl	90318.109	82646.030	0.01	-8.5	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.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 0901
 Lab File ID: 002B0201 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3749.134	0.01	3.6	15.0
(2)	2410.146	2535.959	0.01	5.2	15.0
(3)	1453.120	1488.775	0.01	2.4	15.0
(4)	1433.781	1458.119	0.01	1.7	15.0
(5)	1958.294	2040.498	0.01	4.2	15.0
Aroclor-1260	3966.597	4120.840	0.01	3.9	15.0
(2)	4809.043	4925.877	0.01	2.4	15.0
(3)	3679.792	3765.568	0.01	2.3	15.0
(4)	3825.801	3909.162	0.01	2.2	15.0
(5)	5993.805	5961.229	0.01	-0.5	15.0
4cmx	82474.964	90062.630	0.01	9.2	15.0
Decachlorobiphenyl	61637.648	59809.880	0.01	-3.0	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1411
 Lab File ID: 027F2701 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4252.783	0.01	-6.6	15.0
(2)	5610.061	5410.228	0.01	-3.6	15.0
(3)	2392.299	2289.488	0.01	-4.3	15.0
(4)	2140.620	1994.368	0.01	-6.8	15.0
(5)	3099.161	2912.235	0.01	-6.0	15.0
Aroclor-1260	6475.551	6061.724	0.01	-6.4	15.0
(2)	9548.264	9177.326	0.01	-3.9	15.0
(3)	5665.674	5388.765	0.01	-4.9	15.0
(4)	5904.028	5600.518	0.01	-5.1	15.0
(5)	6228.823	5947.686	0.01	-4.5	15.0
4cmx	126009.40	124978.38	0.01	-0.8	15.0
Decachlorobiphenyl	90318.109	86035.840	0.01	-4.7	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1411
 Lab File ID: 027B2701 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3712.297	0.01	2.6	15.0
(2)	2410.146	2407.556	0.01	-0.1	15.0
(3)	1453.120	1457.156	0.01	0.3	15.0
(4)	1433.781	1408.233	0.01	-1.8	15.0
(5)	1958.294	1931.842	0.01	-1.4	15.0
Aroclor-1260	3966.597	3960.762	0.01	-0.1	15.0
(2)	4809.043	4806.726	0.01	-0.0	15.0
(3)	3679.792	3634.211	0.01	-1.2	15.0
(4)	3825.801	3743.143	0.01	-2.2	15.0
(5)	5993.805	5500.098	0.01	-8.2	15.0
4cmx	82474.964	85331.180	0.01	3.5	15.0
Decachlorobiphenyl	61637.648	60732.120	0.01	-1.5	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1639
 Lab File ID: 039F3901 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4260.409	0.01	-6.4	15.0
(2)	5610.061	5450.237	0.01	-2.8	15.0
(3)	2392.299	2307.977	0.01	-3.5	15.0
(4)	2140.620	2022.649	0.01	-5.5	15.0
(5)	3099.161	2948.003	0.01	-4.9	15.0
Aroclor-1260	6475.551	6028.494	0.01	-6.9	15.0
(2)	9548.264	9064.380	0.01	-5.1	15.0
(3)	5665.674	5325.501	0.01	-6.0	15.0
(4)	5904.028	5489.943	0.01	-7.0	15.0
(5)	6228.823	5900.078	0.01	-5.3	15.0
4cmx	126009.40	124964.33	0.01	-0.8	15.0
Decachlorobiphenyl	90318.109	81158.260	0.01	-10.1	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.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1639
 Lab File ID: 039B3901 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3780.312	0.01	4.4	15.0
(2)	2410.146	2415.021	0.01	0.2	15.0
(3)	1453.120	1478.707	0.01	1.8	15.0
(4)	1433.781	1423.934	0.01	-0.7	15.0
(5)	1958.294	1979.374	0.01	1.1	15.0
Aroclor-1260	3966.597	3968.947	0.01	0.0	15.0
(2)	4809.043	4848.755	0.01	0.8	15.0
(3)	3679.792	3647.435	0.01	-0.9	15.0
(4)	3825.801	3805.332	0.01	-0.5	15.0
(5)	5993.805	5947.910	0.01	-0.8	15.0
4cmx	82474.964	85815.930	0.01	4.0	15.0
Decachlorobiphenyl	61637.648	58647.810	0.01	-4.8	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1908
 Lab File ID: 051F5101 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	4551.274	4242.255	0.01	-6.8	15.0
(2)	5610.061	5517.056	0.01	-1.6	15.0
(3)	2392.299	2283.938	0.01	-4.5	15.0
(4)	2140.620	2016.589	0.01	-5.8	15.0
(5)	3099.161	2925.973	0.01	-5.6	15.0
Aroclor-1260	6475.551	5963.949	0.01	-7.9	15.0
(2)	9548.264	8974.683	0.01	-6.0	15.0
(3)	5665.674	5305.736	0.01	-6.4	15.0
(4)	5904.028	5530.197	0.01	-6.3	15.0
(5)	6228.823	6017.436	0.01	-3.4	15.0
4cmx	126009.40	124782.07	0.01	-1.0	15.0
Decachlorobiphenyl	90318.109	86487.910	0.01	-4.2	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 1908
 Lab File ID: 051B5101 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3863.422	0.01	6.7	15.0
(2)	2410.146	2446.231	0.01	1.5	15.0
(3)	1453.120	1496.903	0.01	3.0	15.0
(4)	1433.781	1443.118	0.01	0.6	15.0
(5)	1958.294	2010.933	0.01	2.7	15.0
Aroclor-1260	3966.597	4062.112	0.01	2.4	15.0
(2)	4809.043	4982.798	0.01	3.6	15.0
(3)	3679.792	3779.664	0.01	2.7	15.0
(4)	3825.801	3934.921	0.01	2.8	15.0
(5)	5993.805	6219.877	0.01	3.8	15.0
4cmx	82474.964	86456.470	0.01	4.8	15.0
Decachlorobiphenyl	61637.648	63146.560	0.01	2.4	15.0

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 2010
 Lab File ID: 056F5601 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP1 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Aroclor-1016	4551.274	4318.942	0.01	-5.1	15.0
(2)	5610.061	5519.319	0.01	-1.6	15.0
(3)	2392.299	2327.943	0.01	-2.7	15.0
(4)	2140.620	2026.145	0.01	-5.3	15.0
(5)	3099.161	2977.173	0.01	-3.9	15.0
Aroclor-1260	6475.551	6159.296	0.01	-4.9	15.0
(2)	9548.264	9287.585	0.01	-2.7	15.0
(3)	5665.674	5507.644	0.01	-2.8	15.0
(4)	5904.028	5696.834	0.01	-3.5	15.0
(5)	6228.823	6115.653	0.01	-1.8	15.0
=====	=====	=====	=====	=====	=====
4cmx	126009.40	126864.51	0.01	0.7	15.0
Decachlorobiphenyl	90318.109	88520.000	0.01	-2.0	15.0
=====	=====	=====	=====	=====	=====

FORM VII PEST

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956
 Instrument ID: ECD8A Calibration Date: 03/01/10 Time: 2010
 Lab File ID: 056B5601 Init. Calib. Date(s): 02/23/10 02/23/10
 Heated Purge: (Y/N) N Init. Calib. Times: 0928 1018
 GC Column: CLP2 ID: 0.25 (mm)

COMPOUND	RRF	RRF 1000	MIN RRF	%D	MAX %D
Aroclor-1016	3619.456	3928.198	0.01	8.5	15.0
(2)	2410.146	2471.523	0.01	2.5	15.0
(3)	1453.120	1504.579	0.01	3.5	15.0
(4)	1433.781	1452.799	0.01	1.3	15.0
(5)	1958.294	1998.001	0.01	2.0	15.0
Aroclor-1260	3966.597	4121.984	0.01	3.9	15.0
(2)	4809.043	5041.676	0.01	4.8	15.0
(3)	3679.792	3830.069	0.01	4.1	15.0
(4)	3825.801	3989.494	0.01	4.3	15.0
(5)	5993.805	6280.518	0.01	4.8	15.0
4cmx	82474.964	87405.630	0.01	6.0	15.0
Decachlorobiphenyl	61637.648	63513.510	0.01	3.0	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/002f0201.d

Lab Smp Id: WAR100225-60 01 Client Smp ID: AR166001

Inj Date : 01-MAR-2010 09:01

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100225-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 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			
2.251	2.251	0.000	13121135	100.000	104	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.242	6.242	0.000	8264603	100.000	91.5	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
2.808	2.808	0.000	4505527	1000.00	990	80.00-	120.00	100.00
3.160	3.160	0.000	5562570	1000.00	992	107.22-	147.22	123.46
3.303	3.303	0.000	2339023	1000.00	978	33.84-	73.84	51.91
3.397	3.397	0.000	2099842	1000.00	981	26.90-	66.90	46.61
3.558	3.558	0.000	3043525	1000.00	982	48.48-	88.48	67.55
Average of Peak Amounts =					984			

7 Aroclor-1260					CAS #: 11096-82-5			
4.432	4.432	0.000	6173787	1000.00	953	80.00-	120.00	100.00
4.627	4.627	0.000	9140064	1000.00	957	131.40-	171.40	148.05
4.902	4.902	0.000	5322118	1000.00	939	68.90-	108.90	86.21
5.075	5.075	0.000	5526951	1000.00	936	72.39-	112.39	89.52
5.487	5.487	0.000	5725372	1000.00	919	78.12-	118.12	92.74
Average of Peak Amounts =					941			

Data File: /chem/ecob8a.i/030110.b/002f0201.d

Date: 01-MAR-2010 09:01

Client ID: AR166001

Sample Info: 1MAR100225-60 01

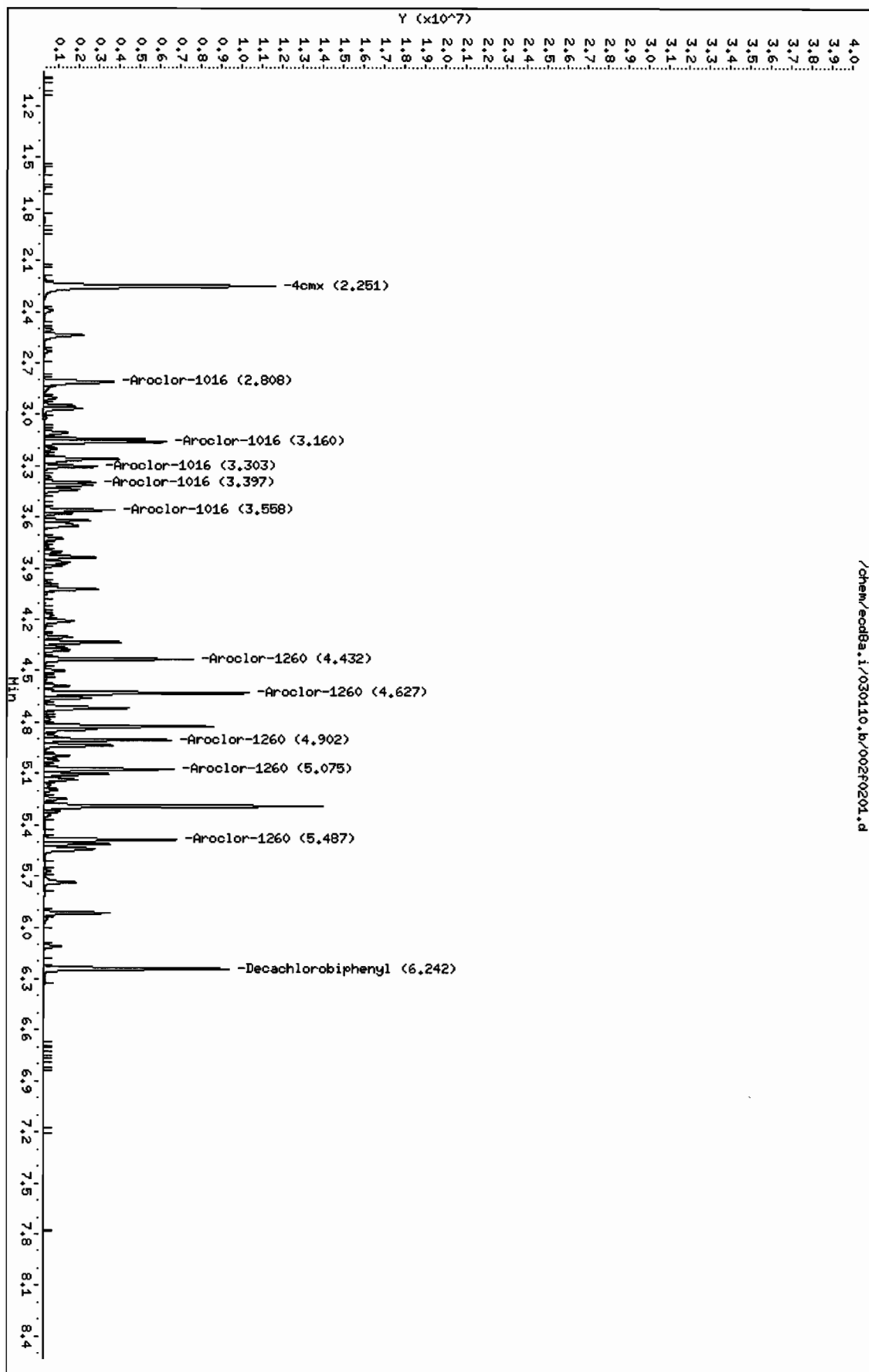
Column phase: CLP1

Instrument: ecob8a.i

Operator: JROC

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/002b0201.d
 Lab Smp Id: WAR100225-60 01 Client Smp ID: AR166001
 Inj Date : 01-MAR-2010 09:01
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100225-60 01
 Misc Info : |1660
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 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 4cmx				CAS #: 877-09-8			
2.482	2.482	0.000	9006263 100.000	109	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.830	6.830	0.000	5980988 100.000	97.0	80.00- 120.00	100.00	

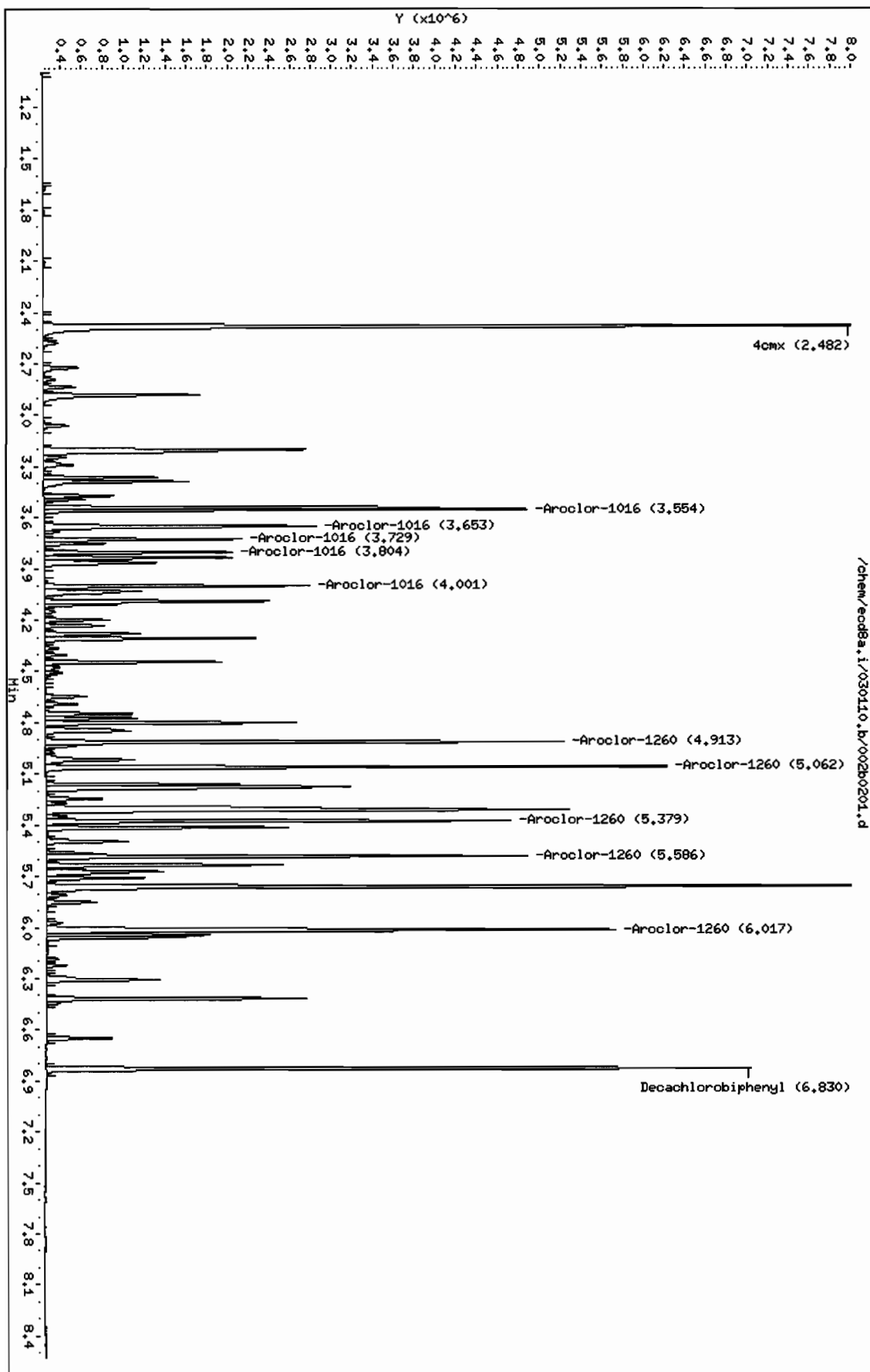
1 Aroclor-1016				CAS #: 12674-11-2			
3.554	3.554	0.000	3749134 1000.00	1040	80.00- 120.00	100.00	
3.653	3.653	0.000	2535958 1000.00	1050	44.85- 84.85	67.64	
3.729	3.729	0.000	1488774 1000.00	1020	19.25- 59.25	39.71	
3.804	3.804	0.000	1458119 1000.00	1020	17.93- 57.93	38.89	
4.001	4.001	0.000	2040497 1000.00	1040	32.04- 72.04	54.43	
Average of Peak Amounts =				1.03e+03			

7 Aroclor-1260				CAS #: 11096-82-5			
4.913	4.913	0.000	4120840 1000.00	1040	80.00- 120.00	100.00	
5.062	5.062	0.000	4925877 1000.00	1020	101.36- 141.36	119.54	
5.379	5.379	0.000	3765568 1000.00	1020	71.76- 111.76	91.38	
5.586	5.586	0.000	3909162 1000.00	1020	74.51- 114.51	94.86	
6.017	6.017	0.000	5961229 1000.00	994	118.86- 158.86	144.66	
Average of Peak Amounts =				1.02e+03			

Data File: /chem/eod8a.i/030110.b/002b0201.d
Date: 01-MAR-2010 09:01
Client ID: AR166001
Sample Info: IMR100225-60 01

Column phase: CLP2

Instrument: eod8a.i
Operator: JMO
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/003f0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 01-MAR-2010 09:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

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

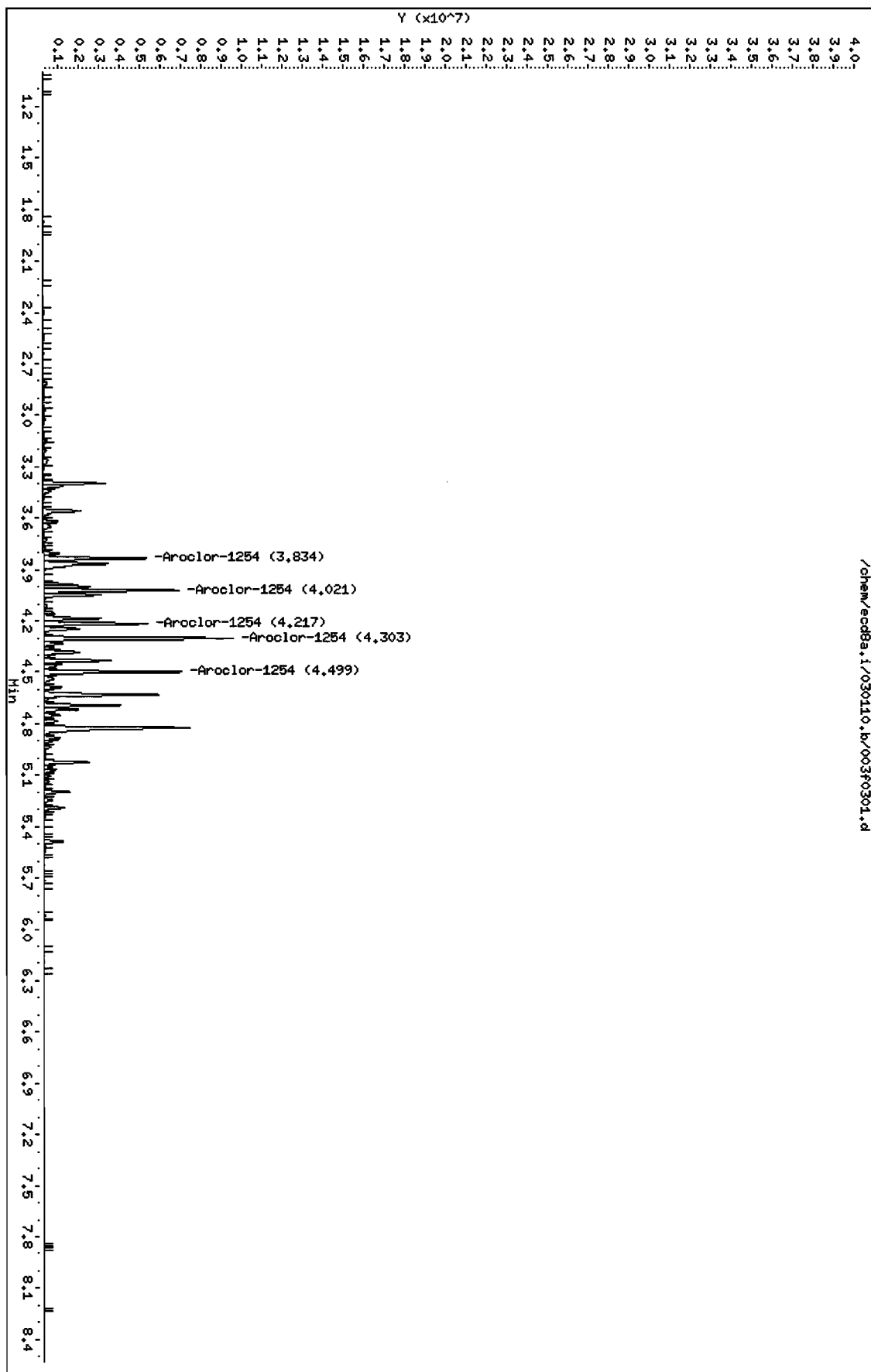
AMOUNTS

			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
=====			=====	=====	=====	=====
6 Aroclor-1254			CAS #: 11097-69-1			
3.834	3.834	0.000	4365813 1000.00	912	80.00- 120.00	100.00
4.021	4.021	0.000	5878565 1000.00	895	114.65- 154.65	134.65
4.217	4.217	0.000	4683017 1000.00	911	87.27- 127.27	107.27
4.303	4.303	0.000	7883966 1000.00	896	160.58- 200.58	180.58
4.499	4.499	0.000	5908643 1000.00	855	115.34- 155.34	135.34
Average of Peak Amounts =			894			

Data File: /chem/ecob8a.i/030110.b/003f0301.d
Date: 01-MAR-2010 09:14
Client ID: AR125401
Sample Info: 1MAR100201-54
Column phase: CLP1

Instrument: ecob8a.i
Operator: JAOC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/003b0301.d
Report Date: 01-Mar-2010 14:37

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/003b0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 01-MAR-2010 09:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254					CAS #: 11097-69-1	
4.308	4.308	0.000	3455644 1000.00	1000	80.00- 120.00	100.00
4.446	4.446	0.000	3871886 1000.00	990	92.05- 132.05	112.05
4.775	4.775	0.000	5489141 1000.00	998	138.85- 178.85	158.85
4.937	4.937	0.000	3862603 1000.00	963	91.78- 131.78	111.78
5.062	5.062	0.000	2491520 1000.00	977	52.10- 92.10	72.10
Average of Peak Amounts =				986		

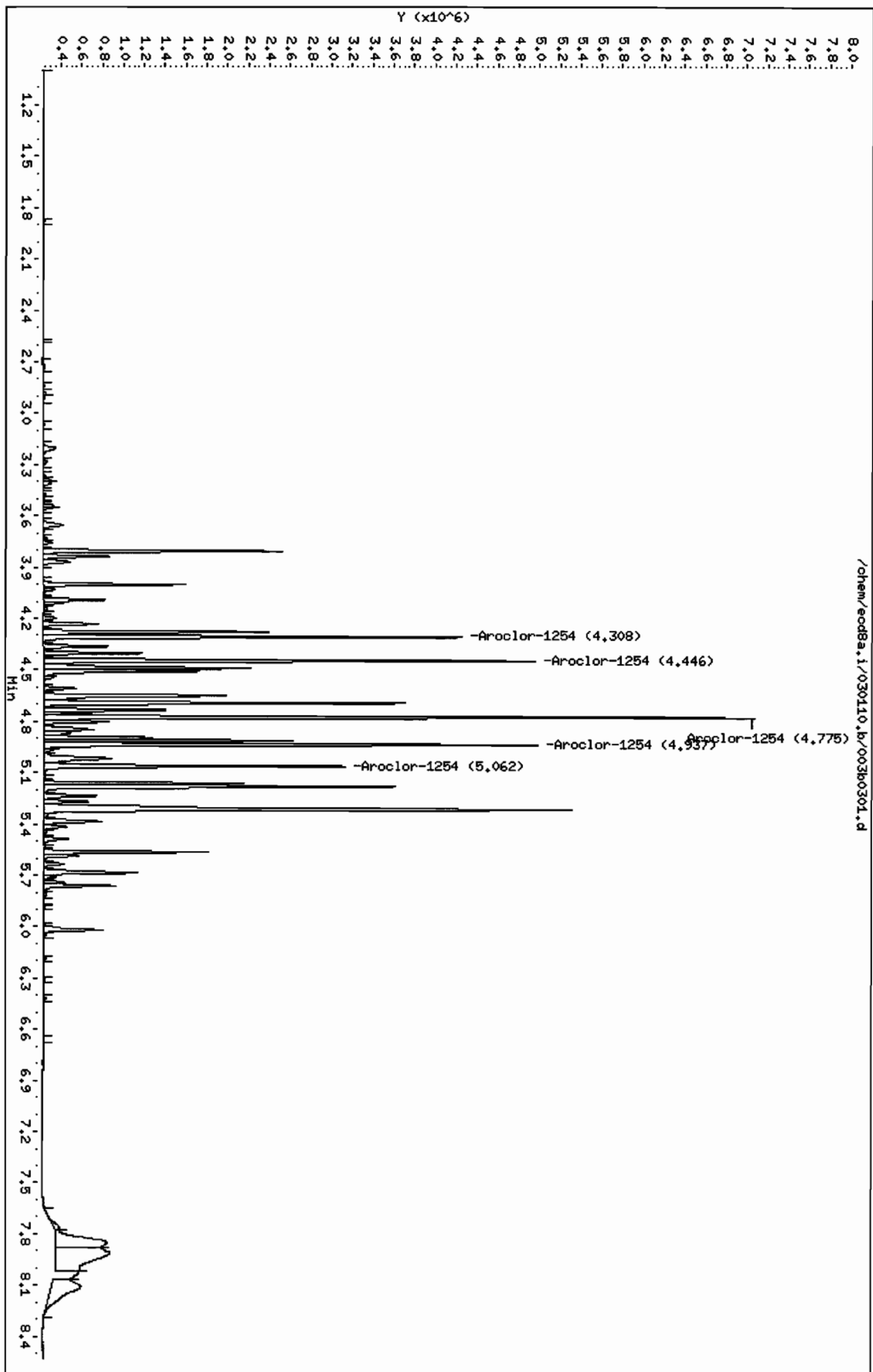
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Date: 01-MAR-2010 09:14
Client ID: AR125401
Sample Info: IWR100201-54

Instrument: eodBa.1

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Column phase: CLP2

Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/004f0401.d
 Lab Smp Id: WAR091217-42 Client Smp ID: AR124201
 Inj Date : 01-MAR-2010 09:26
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR091217-42
 Misc Info : |1242
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 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				
2.810	2.810	0.000	4142140	1000.00	1040 80.00- 120.00	100.00	
3.160	3.160	0.000	5103769	1000.00	1060 103.22- 143.22	123.22	
3.396	3.396	0.000	1881293	1000.00	1040 25.42- 65.42	45.42	
3.414	3.414	0.000	1939225	1000.00	1030 26.82- 66.82	46.82	
3.559	3.559	0.000	2808829	1000.00	1060 47.81- 87.81	67.81	
Average of Peak Amounts =			1.05e+03				

Data File: /chem/ecod8a.i/030110.b/004f0401.d

Date : 01-MAR-2010 09:26

Client ID: AR124201

Sample Info: 1MAR091217-42

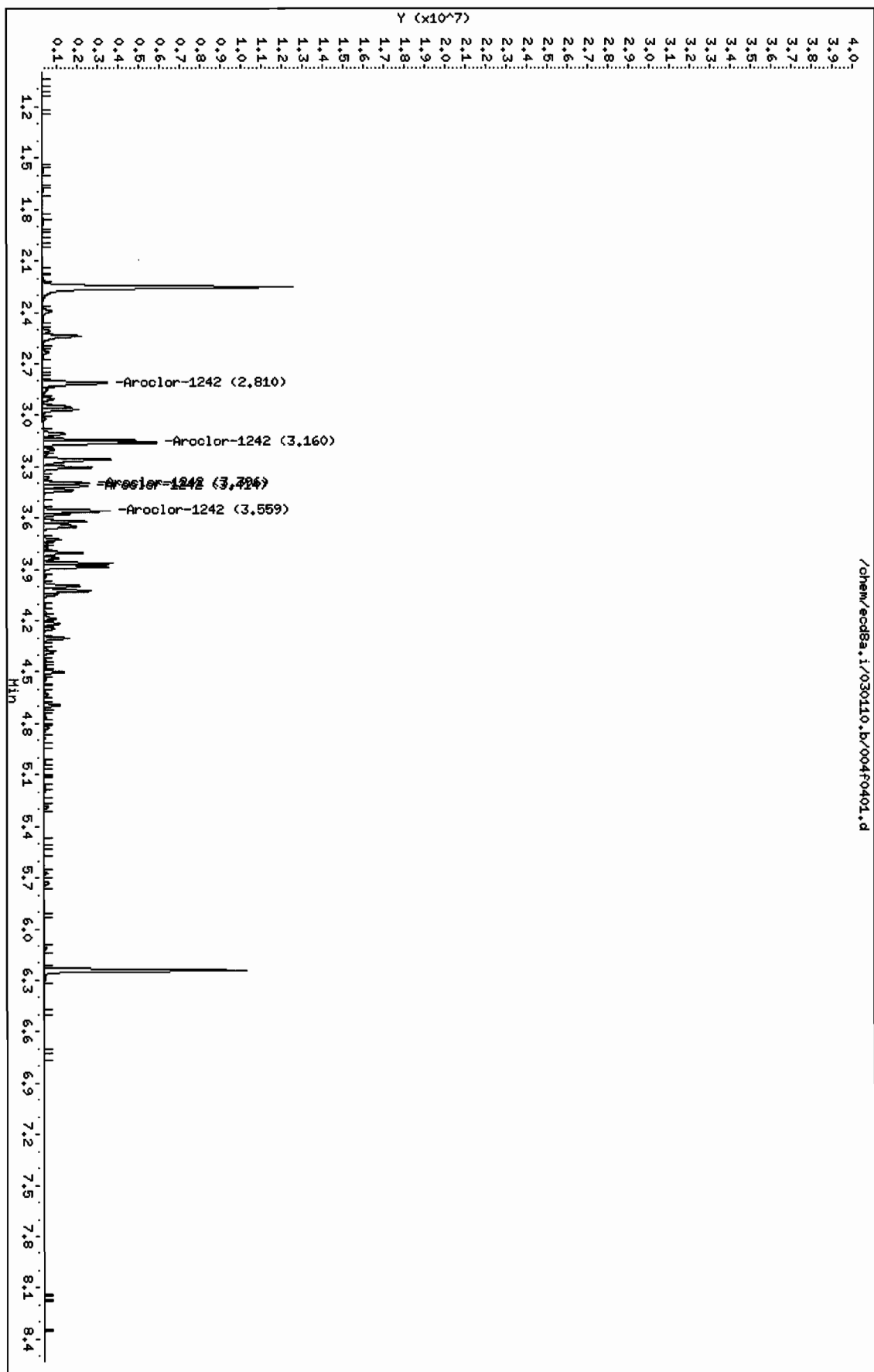
Column phase: CLP1

Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/004b0401.d
Report Date: 01-Mar-2010 14:37

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 01-MAR-2010 09:26

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

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

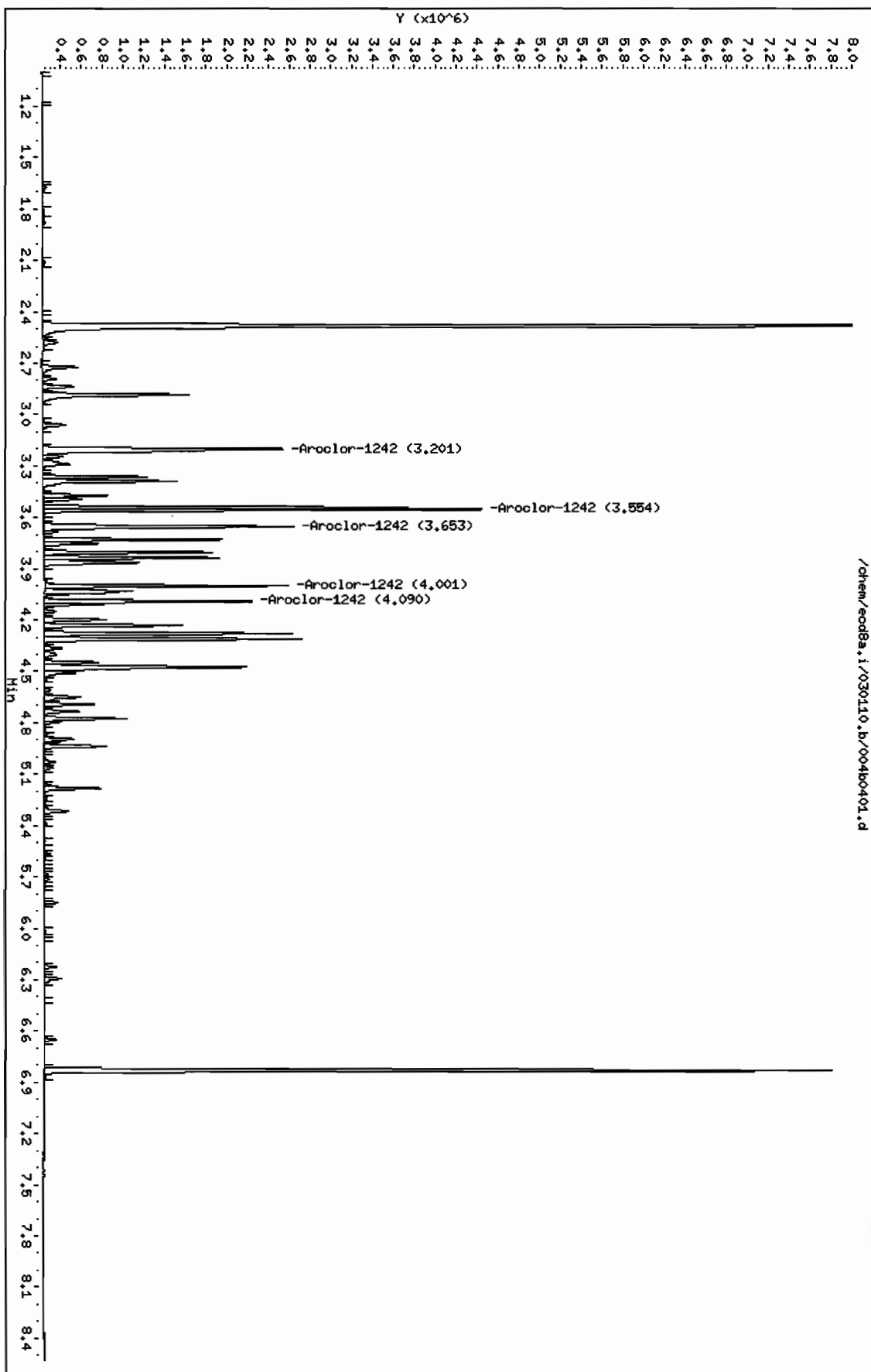
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
4	Aroclor-1242				CAS #: 53469-21-9	
3.201	3.201	0.000	2931239 1000.00	1090	80.00- 120.00	100.00
3.554	3.554	0.000	3378767 1000.00	1080	95.27- 135.27	115.27
3.653	3.653	0.000	2362387 1000.00	1110	60.59- 100.59	80.59
4.001	4.001	0.000	1853282 1000.00	1090	43.23- 83.23	63.23
4.090	4.090	0.000	1736668 1000.00	1110	39.25- 79.25	59.25
Average of Peak Amounts =			1.1e+03			

Data File: /chem/ecd8a.i/030110.b/004b0401.d
Date: 01-MAR-2010 09:26
Client ID: AR124201
Sample Info: 1MAR091217-42

Column phase: CLP2

Instrument: ecd8a.i
Operator: JADC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/005f0501.d
Report Date: 01-Mar-2010 14:38

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 01-MAR-2010 09:38

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.146	3.146	0.000	2550286 1000.00	853	80.00- 120.00	100.00
3.396	3.396	0.000	3425538 1000.00	896	114.32- 154.32	134.32
3.559	3.559	0.000	4545959 1000.00	909	158.25- 198.25	178.25
3.865	3.865	0.000	5330937 1000.00	890	189.03- 229.03	209.03
4.024	4.024	0.000	4317997 1000.00	895	149.31- 189.31	169.31
Average of Peak Amounts =				889		

Data File: /chem/eod8a.i/030110.b/005f0501.d

Date : 01-MAR-2010 09:38

Client ID: ARI24801

Sample Info: IMAF091217-48

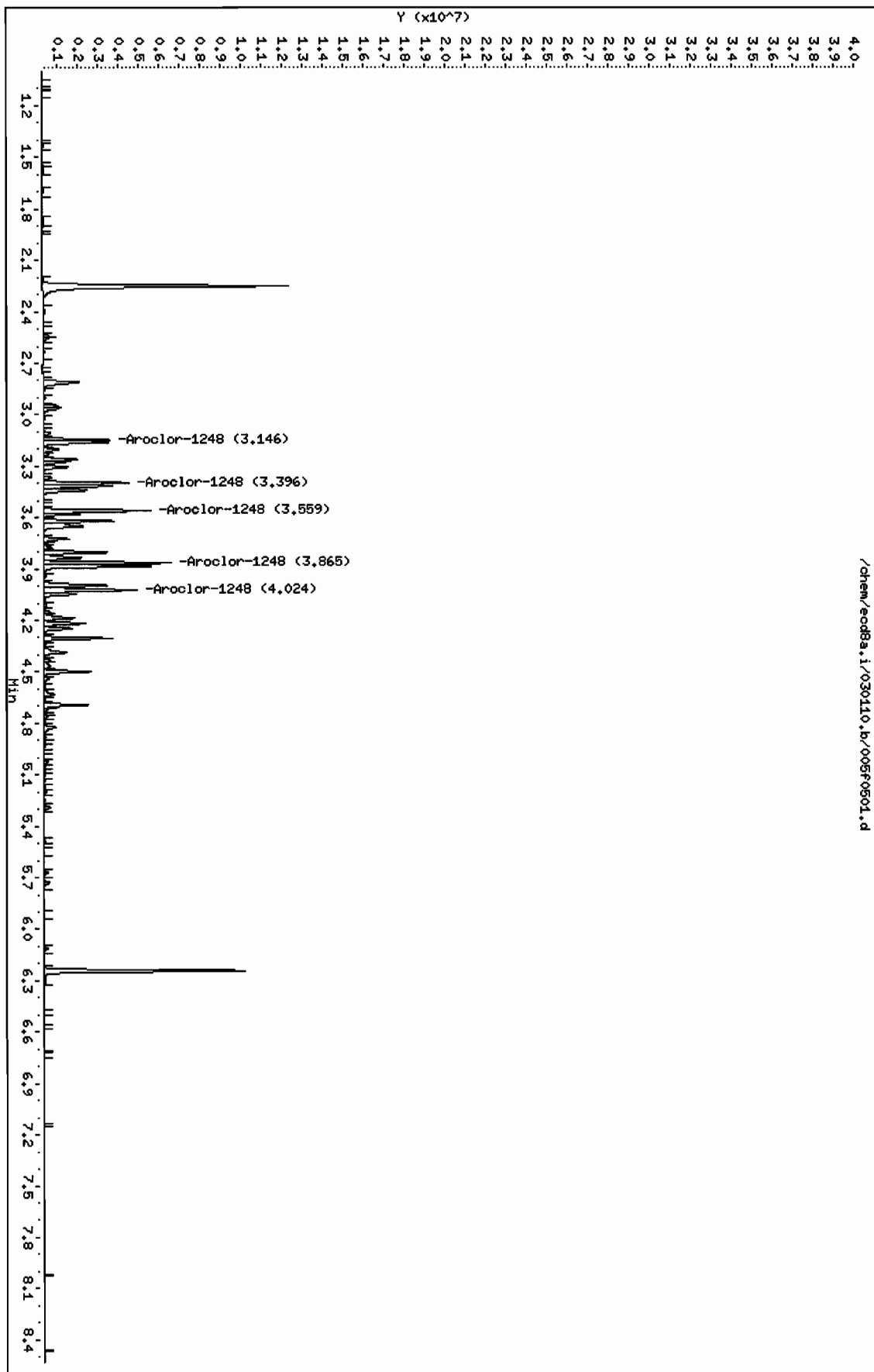
Column phase: CLP1

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/005b0501.d
Report Date: 01-Mar-2010 14:38

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/005b0501.d
Lab Smp Id: WAR091217-48 Client Smp ID: AR124801
Inj Date : 01-MAR-2010 09:38
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |WAR091217-48
Misc Info : |1248
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 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

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	
3.653	3.653	0.000	1489068 1000.00	1040	80.00- 120.00	100.00
3.805	3.805	0.000	2509300 1000.00	1020	148.51- 188.51	168.51
4.001	4.001	0.000	3194071 1000.00	1030	194.50- 234.50	214.50
4.279	4.279	0.000	3674057 1000.00	1010	226.74- 266.74	246.74
4.311	4.311	0.000	4056091 1000.00	1010	252.39- 292.39	272.39
Average of Peak Amounts =			1.02e+03			

Data File: /chem/ecdb8a.i/030110.b/005b0501.d

Date : 01-MAR-2010 09:38

Client ID: AR124801

Sample Info: 1MAR091217-48

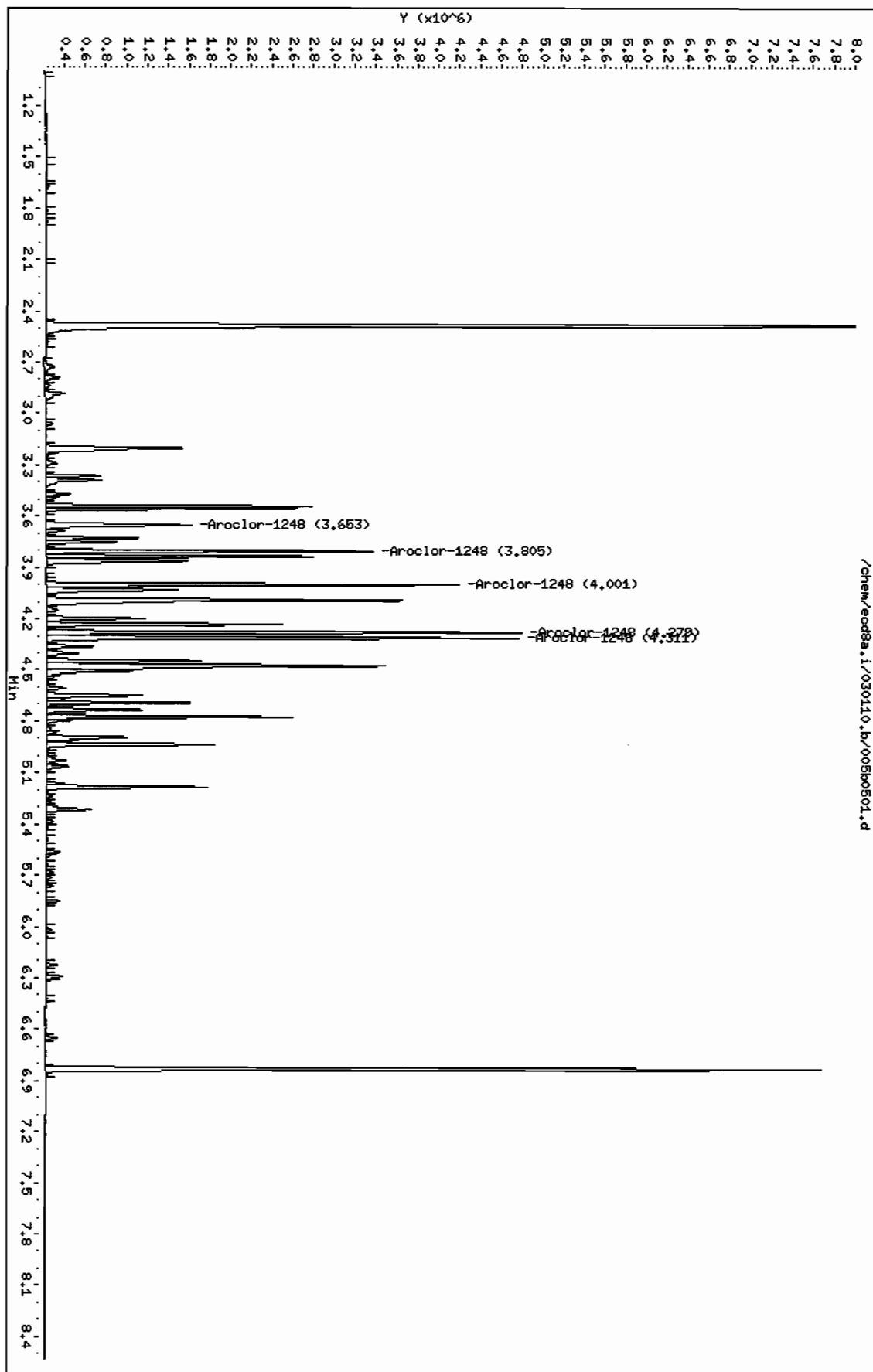
Page 1

Instrument: ecdb8a.i

Operator: JHOC

Column diameter: 0.25

Column phase: CLP2



Data File: /chem/ecd8a.i/030110.b/006f0601.d
Report Date: 01-Mar-2010 14:38

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/006f0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 01-MAR-2010 09:51

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 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			
2.539	2.539	0.000	3063877	1000.00	1180 80.00- 120.00	100.00
2.809	2.809	0.000	2675327	1000.00	1180 67.32- 107.32	87.32
3.304	3.304	0.000	1423132	1000.00	1140 26.45- 66.45	46.45
3.559	3.559	0.000	1705010	1000.00	1150 35.65- 75.65	55.65
3.620	3.620	0.000	1055368	1000.00	1140 14.45- 54.45	34.45

Average of Peak Amounts = 1.16e+03

Data File: /chem/ecod8a.i/030110.b/006f0601.d

Date : 01-MAR-2010 09:51

Client ID: AR123201

Sample Info: 1MAR100104-32

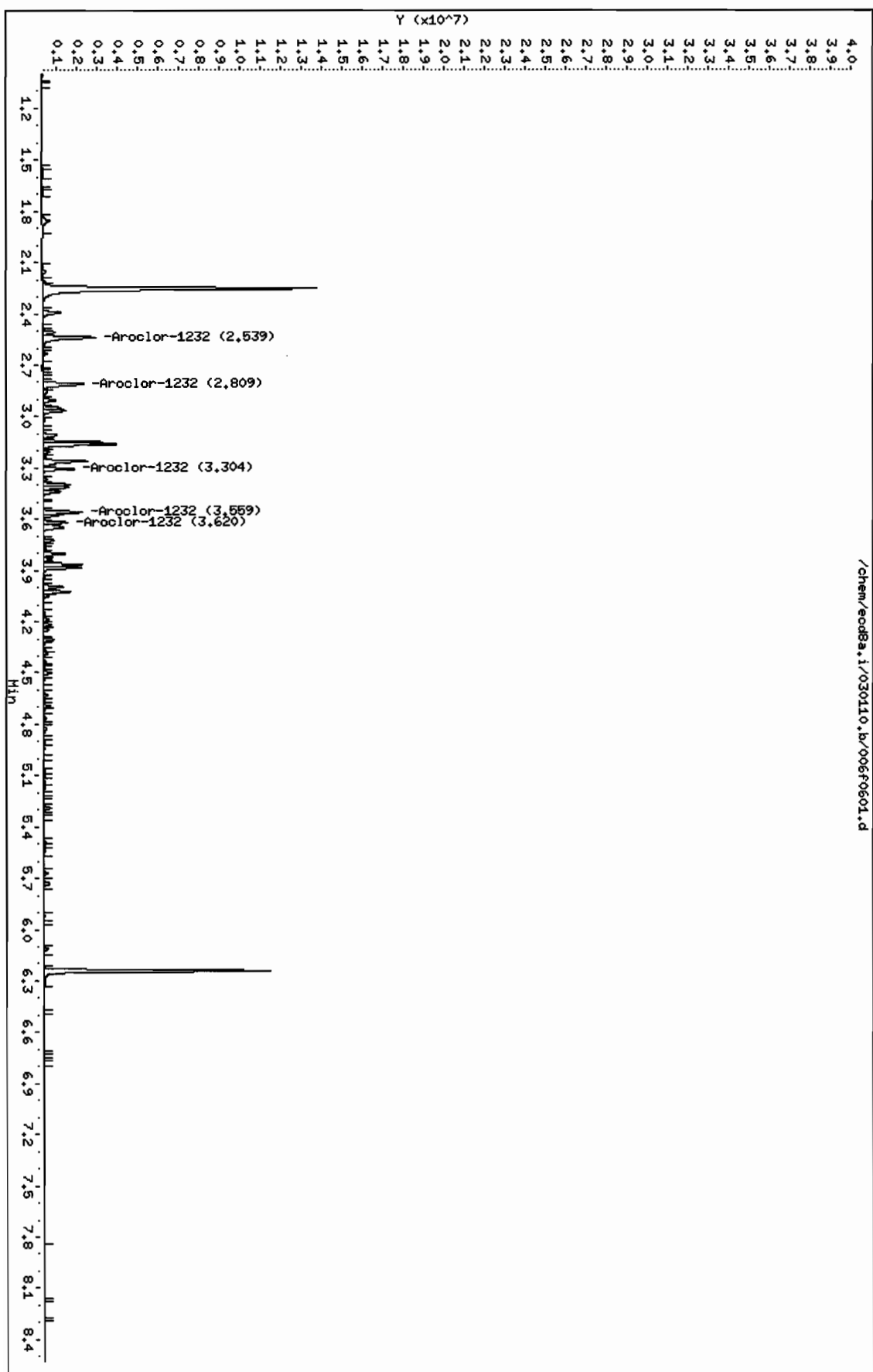
Column phase: CLP1

Instrument: ecod8a.i

Operator: JMO

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/006b0601.d
 Lab Smp Id: WAR100104-32 Client Smp ID: AR123201
 Inj Date : 01-MAR-2010 09:51
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100104-32
 Misc Info : |1232
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 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

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
3 Aroclor-1232					CAS #: 11141-16-5			
3.201	3.201	0.000	1965181	1000.00	1300	80.00- 120.00	100.00	
3.554	3.554	0.000	2259003	1000.00	1300	94.95- 134.95	114.95	
3.654	3.654	0.000	1550919	1000.00	1320	58.92- 98.92	78.92	
3.730	3.730	0.000	913291	1000.00	1290	26.47- 66.47	46.47	
3.804	3.804	0.000	789355	1000.00	1280	20.17- 60.17	40.17	
Average of Peak Amounts =					1.29e03			

Data File: /chem/ec08a.i/030110.b/0060601.d

Date: 01-MAR-2010 09:51

Client ID: AR123201

Sample Info: 11MAR100104-32

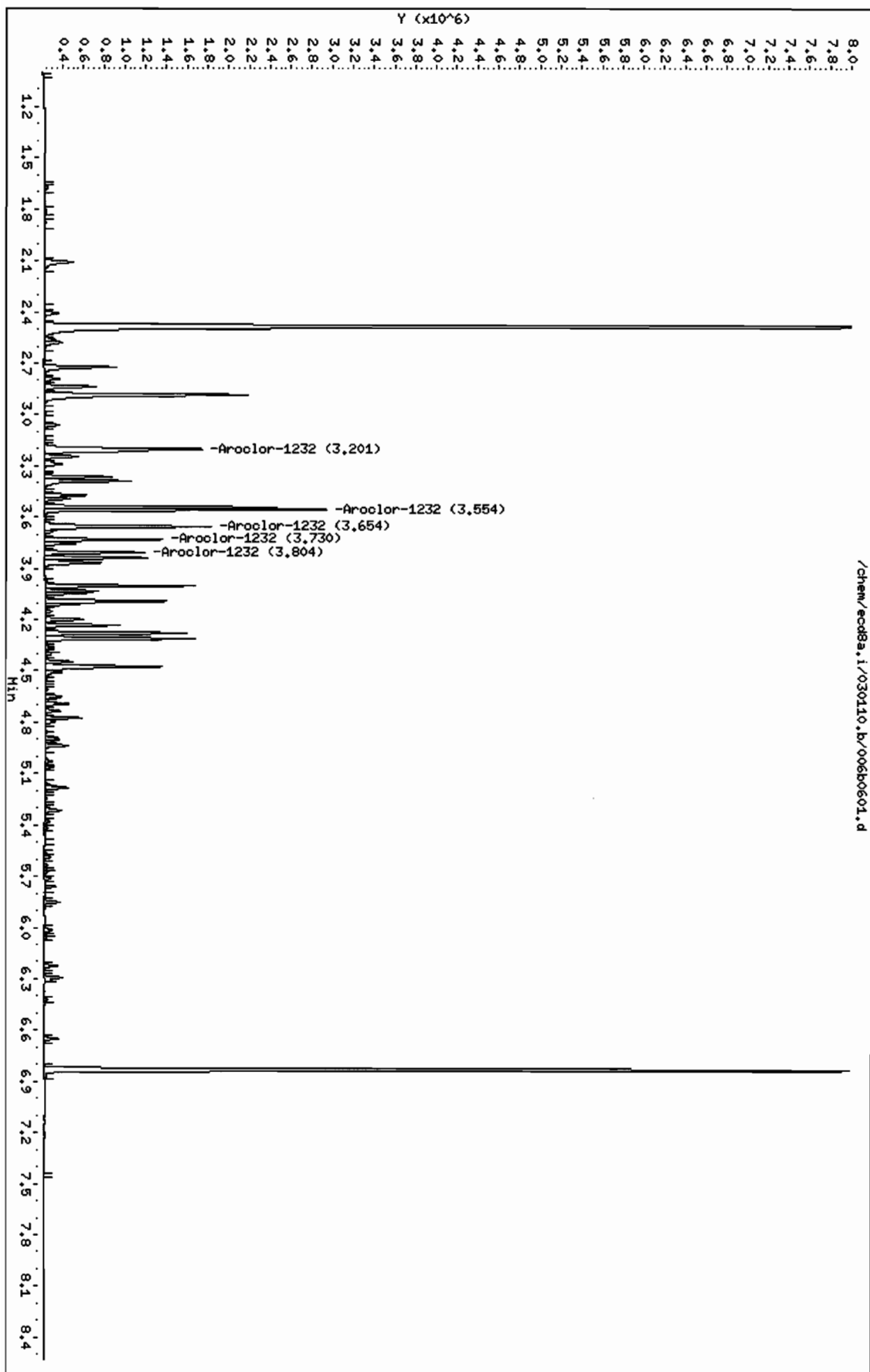
Column phase: CLP2

Instrument: ec08a.i

Operator: JHOC

Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/007f0701.d
 Lab Smp Id: WAR100104-21 Client Smp ID: AR122101
 Inj Date : 01-MAR-2010 10:03
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100104-21
 Misc Info : |1221
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 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	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221					CAS #: 11104-28-2		
2.392	2.392	0.000	1510159	1000.00	963	80.00- 120.00	100.00
2.507	2.507	0.000	848388	1000.00	927	36.18- 76.18	56.18
2.539	2.539	0.000	3483394	1000.00	975	210.66- 250.66	230.66
Average of Peak Amounts =					955		

Data File: /chem/ecd8a.i/030110.b/0070701.d

Date : 01-MAR-2010 10:03

Client ID: AR422401

Sample Info: IMAR100104-21

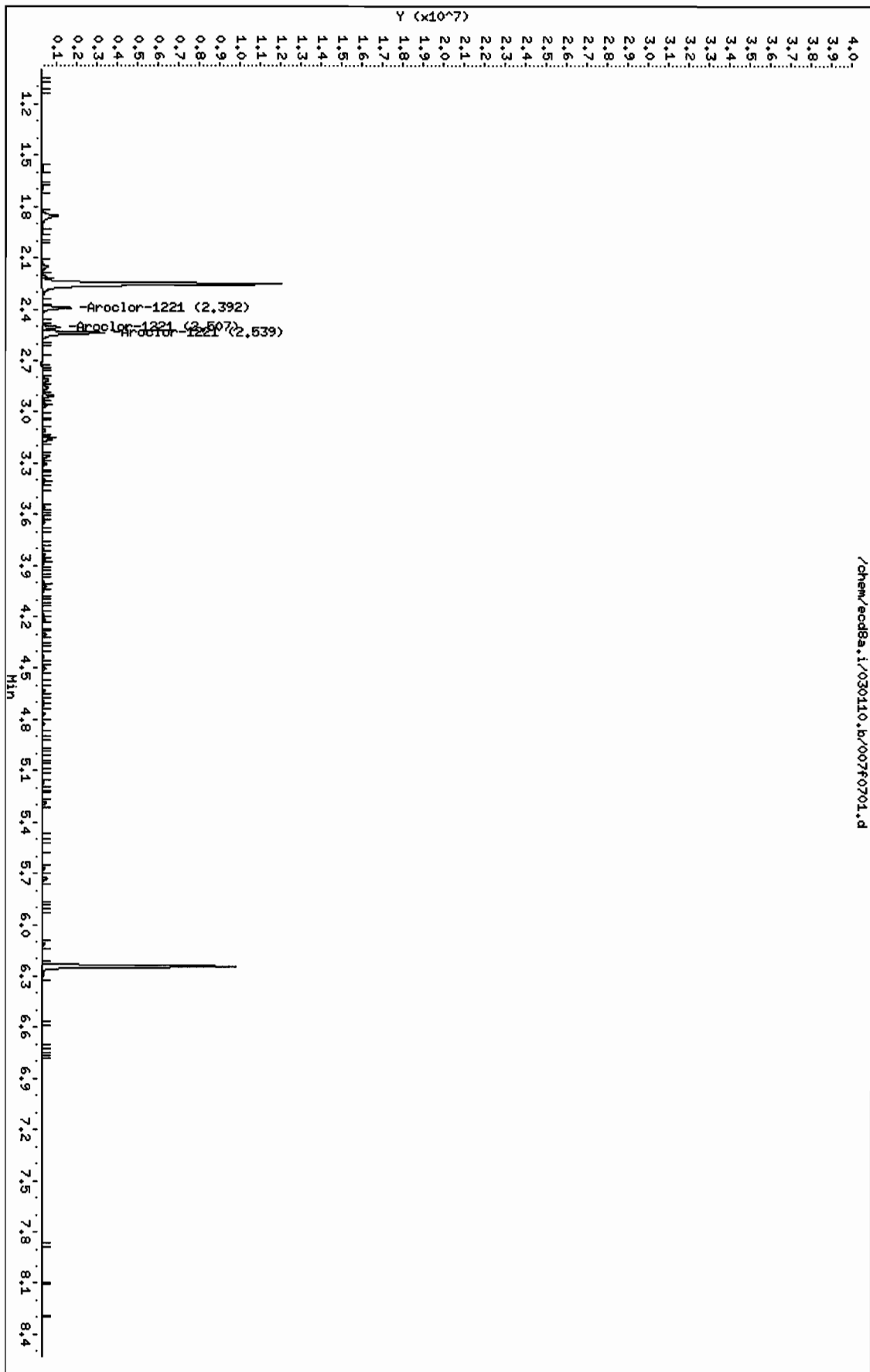
Column phase: CLP1

Instrument: ecd8a.i

Operator: JAO

Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/007b0701.d
Report Date: 01-Mar-2010 14:38

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 01-MAR-2010 10:03

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

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

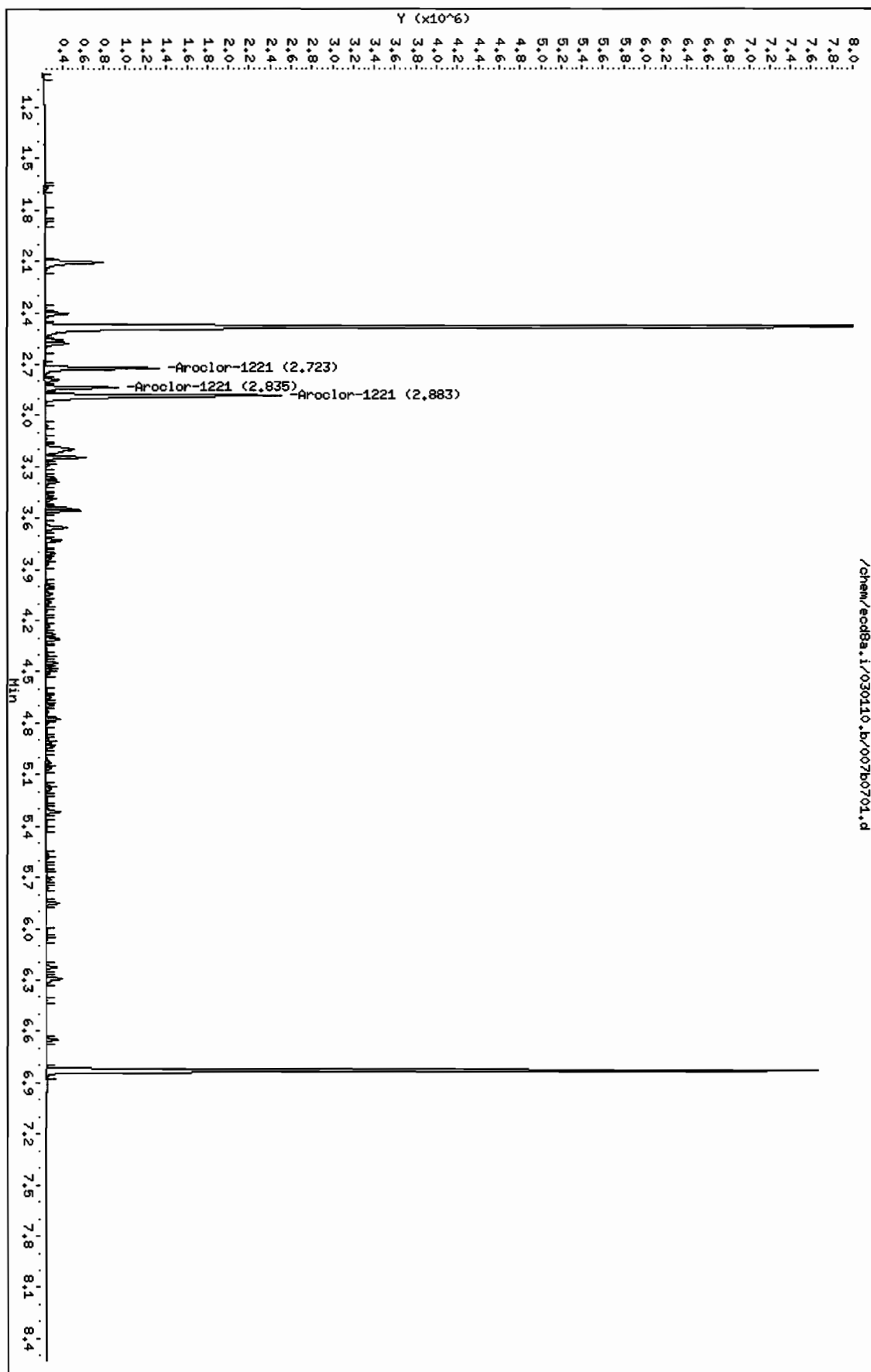
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
2 Aroclor-1221						
2.723	2.723	0.000	1045892 1000.00	1100	80.00- 120.00	100.00
2.835	2.835	0.000	641607 1000.00	1080	41.35- 81.35	61.35
2.883	2.883	0.000	2331168 1000.00	1070	202.89- 242.89	222.89
Average of Peak Amounts =			1.09e+03			

Data File: /chem/ecdb8a.i/030110.b/007b0701.d
Date : 01-MAR-2010 10:03
Client ID: AR122101
Sample Info: 1MAR100104-21
Column phase: CLP2

Instrument: ecdb8a.i
Operator: JACD
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/027f2701.d

Lab Smp Id: WAR100225-60 03

Client Smp ID: AR166003

Inj Date : 01-MAR-2010 14:11

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 03

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 27

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
\$ 11 4cmx				CAS #: 877-09-8		
2.251	2.251	0.000	12497838 100.000	99.2	80.00- 120.00	100.00

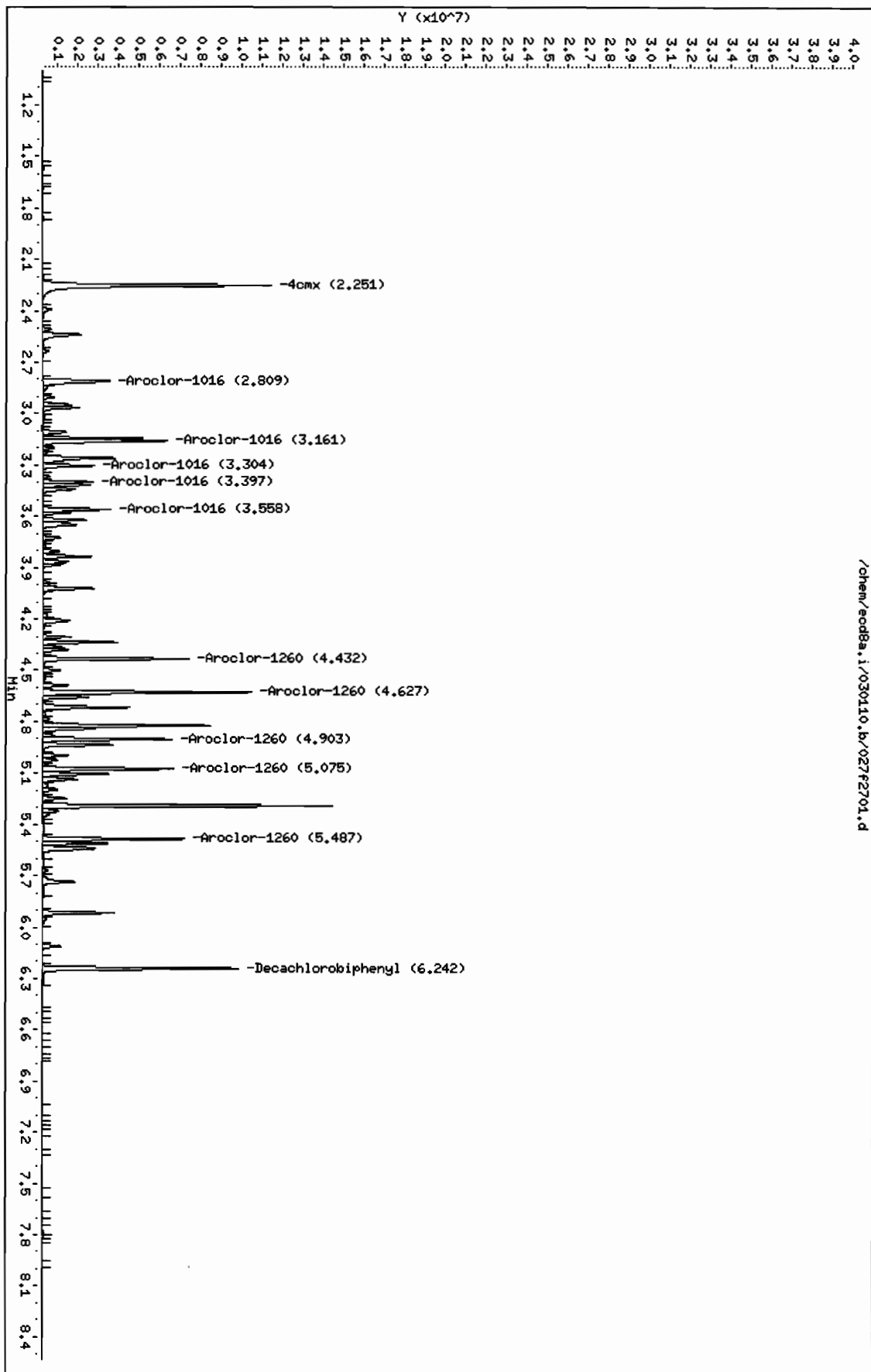
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.242	6.242	0.000	8603584 100.000	95.2	80.00- 120.00	100.00

1 Aroclor-1016				CAS #: 12674-11-2		
2.809	2.808	0.001	4252783 1000.00	934	80.00- 120.00	100.00
3.161	3.160	0.001	5410227 1000.00	964	107.22- 147.22	127.22
3.304	3.303	0.001	2289488 1000.00	957	33.84- 73.84	53.84
3.397	3.397	0.000	1994368 1000.00	932	26.90- 66.90	46.90
3.558	3.558	0.000	2912235 1000.00	940	48.48- 88.48	68.48
Average of Peak Amounts =				945		

7 Aroclor-1260				CAS #: 11096-82-5		
4.432	4.432	0.000	6061724 1000.00	936	80.00- 120.00	100.00
4.627	4.627	0.000	9177325 1000.00	961	131.40- 171.40	151.40
4.903	4.902	0.001	5388764 1000.00	951	68.90- 108.90	88.90
5.075	5.075	0.000	5600518 1000.00	948	72.39- 112.39	92.39
5.487	5.487	0.000	5947686 1000.00	955	78.12- 118.12	98.12
Average of Peak Amounts =				950		

Data File: /chem/ecod8a.1/030110.b/027f2701.d
Date : 01-MAR-2010 14:11
Client ID: AR166003
Sample Info: 1MAR100225-60 03
Column phase: CLP1

Instrument: ecod8a.1
Operator: JHOC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/027b2701.d
 Lab Smp Id: WAR100225-60 03 Client Smp ID: AR166003
 Inj Date : 01-MAR-2010 14:11
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100225-60 03
 Misc Info : |1660
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 27 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

\$ 11 4cmx					CAS #:	877-09-8	
2.482	2.482	0.000	8533118	100.000	103	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #:	2051-24-3	
6.830	6.830	0.000	6073212	100.000	98.5	80.00- 120.00	100.00

1 Aroclor-1016					CAS #:	12674-11-2	
3.554	3.554	0.000	3712297	1000.00	1020	80.00- 120.00	100.00
3.653	3.653	0.000	2407555	1000.00	999	44.85- 84.85	64.85
3.729	3.729	0.000	1457155	1000.00	1000	19.25- 59.25	39.25
3.804	3.804	0.000	1408233	1000.00	982	17.93- 57.93	37.93
4.001	4.001	0.000	1931842	1000.00	986	32.04- 72.04	52.04
Average of Peak Amounts =					999		

7 Aroclor-1260					CAS #:	11096-82-5	
4.914	4.913	0.001	3960761	1000.00	998	80.00- 120.00	100.00
5.062	5.062	0.000	4806726	1000.00	1000	101.36- 141.36	121.36
5.379	5.379	0.000	3634210	1000.00	988	71.76- 111.76	91.76
5.586	5.586	0.000	3743142	1000.00	978	74.51- 114.51	94.51
6.017	6.017	0.000	5500098	1000.00	918	118.86- 158.86	138.86
Average of Peak Amounts =					976		

Data File: /chem/eod8a.i/030110.b/027b2701.d

Date : 01-MAR-2010 14:11

Client ID: AR166003

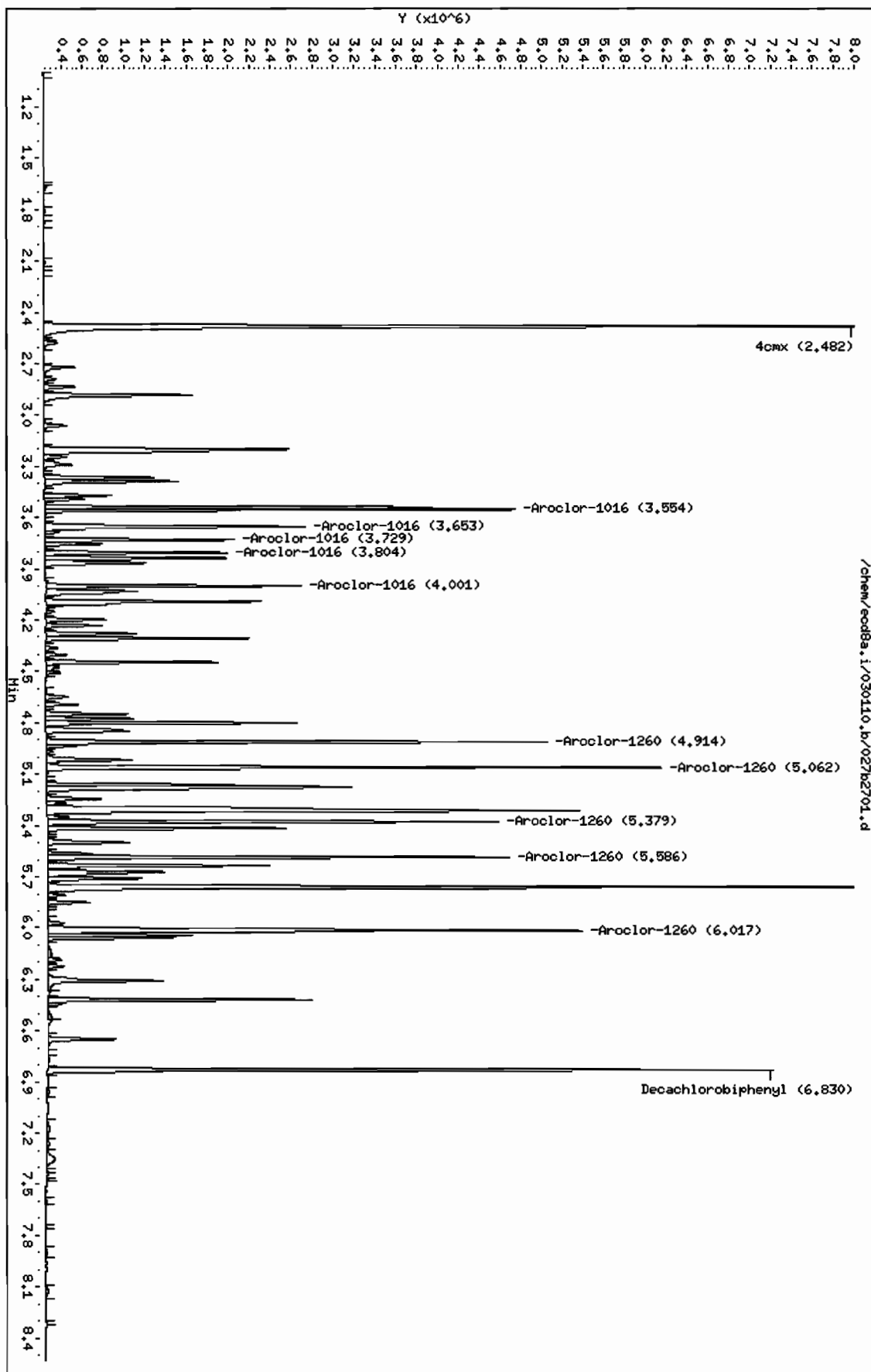
Sample Info: ILMR100225-60 03

Column phase: CLP2

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/039f3901.d

Lab Smp Id: WAR100225-60 04

Client Smp ID: AR166004

Inj Date : 01-MAR-2010 16:39

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 04

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 39

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ug/L)	ON-COL (ug/L)	TARGET RANGE	RATIO
\$ 11 4cmx				CAS #: 877-09-8		
2.251	2.251	0.000	12496433 100.000	99.2	80.00- 120.00	100.00

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.243	6.242	0.001	8115826 100.000	89.8	80.00- 120.00	100.00

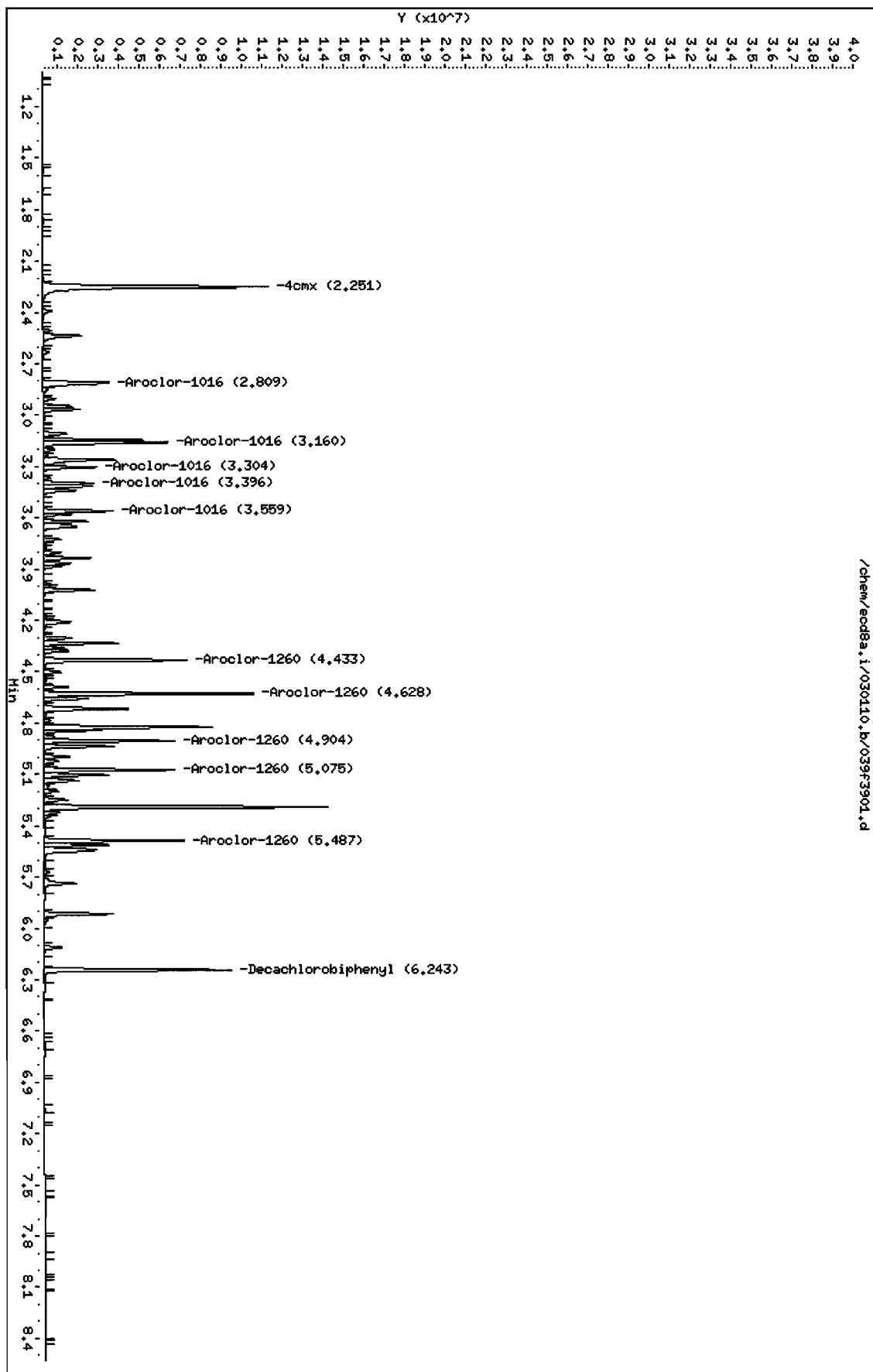
1 Aroclor-1016				CAS #: 12674-11-2		
2.809	2.808	0.001	4260408 1000.00	936	80.00- 120.00	100.00
3.160	3.160	0.000	5450237 1000.00	972	107.79- 147.79	127.93
3.304	3.303	0.001	2307976 1000.00	965	33.90- 73.90	54.17
3.396	3.397	-0.001	2022648 1000.00	945	26.91- 66.91	47.48
3.559	3.558	0.001	2948003 1000.00	951	48.93- 88.93	69.20
Average of Peak Amounts =				954		

7 Aroclor-1260				CAS #: 11096-82-5		
4.433	4.432	0.001	6028493 1000.00	931	80.00- 120.00	100.00
4.628	4.627	0.001	9064379 1000.00	949	130.79- 170.79	150.36
4.904	4.902	0.002	5325501 1000.00	940	69.42- 109.42	88.34
5.075	5.075	0.000	5489942 1000.00	930	72.49- 112.49	91.07
5.487	5.487	0.000	5900078 1000.00	947	79.29- 119.29	97.87
Average of Peak Amounts =				939		

Data File: /chem/ecd8a.i/030110.b/039f3901.d
Date: 01-MAR-2010 16:39
Client ID: AR166004
Sample Info: IWR100225-60 04
Column phase: CLP1

Instrument: ecd8a.i
Operator: JHOC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/039b3901.d

Lab Smp Id: WAR100225-60 04

Client Smp ID: AR166004

Inj Date : 01-MAR-2010 16:39

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 04

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 39

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	8581593	100.000	104	80.00- 120.00	100.00	

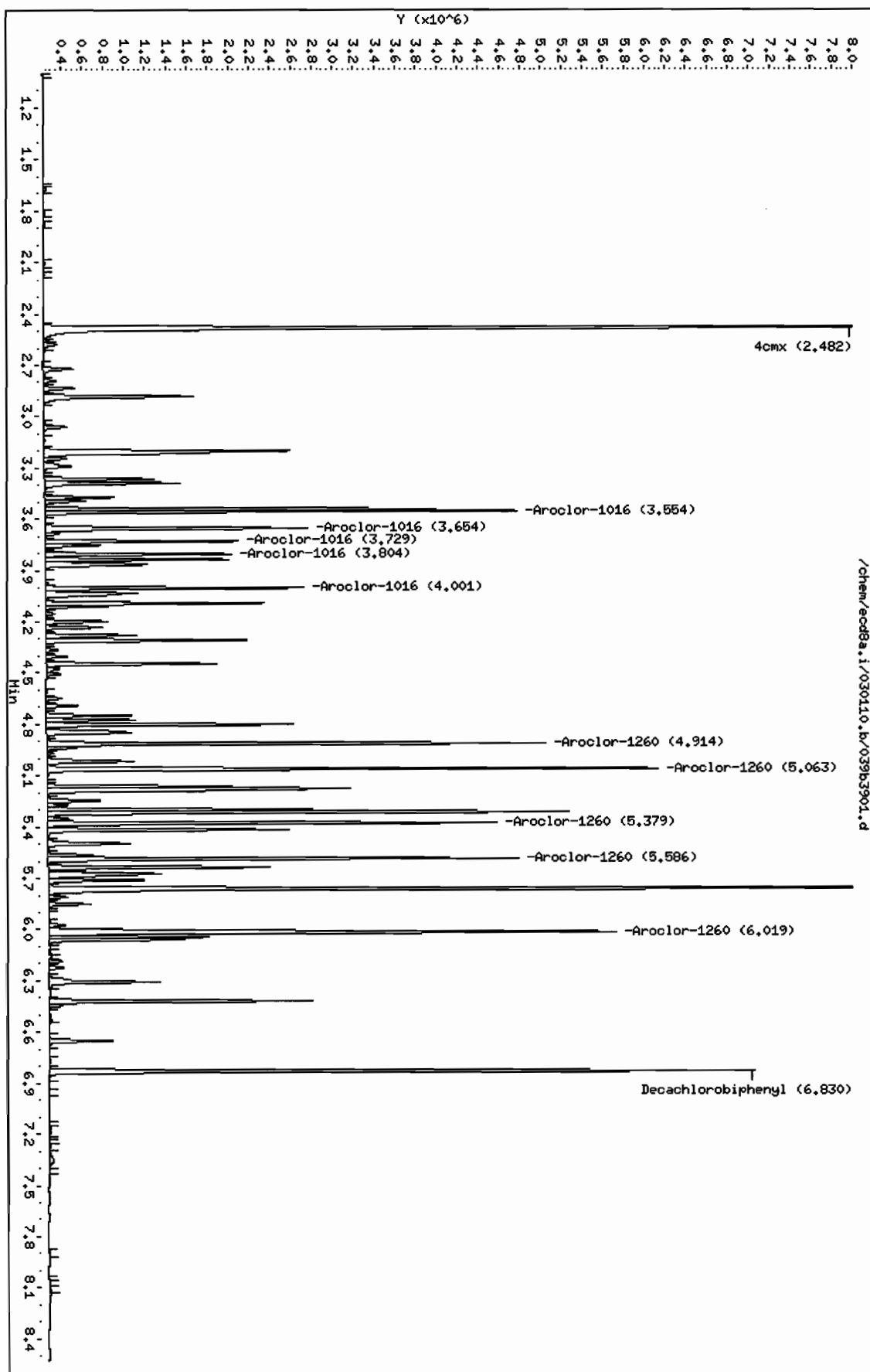
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.830	6.830	0.000	5864781	100.000	95.1	80.00- 120.00	100.00	

1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.554	0.000	3780312	1000.00	1040	80.00- 120.00	100.00	
3.654	3.653	0.001	2415020	1000.00	1000	42.92- 82.92	63.88	
3.729	3.729	0.000	1478707	1000.00	1020	18.30- 58.30	39.12	
3.804	3.804	0.000	1423934	1000.00	993	16.98- 56.98	37.67	
4.001	4.001	0.000	1979373	1000.00	1010	30.86- 70.86	52.36	
Average of Peak Amounts =					1.01e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.913	0.001	3968947	1000.00	1000	80.00- 120.00	100.00	
5.063	5.062	0.001	4848755	1000.00	1010	102.31- 142.31	122.17	
5.379	5.379	0.000	3647435	1000.00	991	72.92- 112.92	91.90	
5.586	5.586	0.000	3805331	1000.00	995	76.79- 116.79	95.88	
6.019	6.017	0.002	5947910	1000.00	992	132.37- 172.37	149.86	
Average of Peak Amounts =					997			

Data File: /chem/eod8a.i/030110.b/039b3901.d
Date: 01-MAR-2010 16:39
Client ID: AR166004
Sample Info: 1MAR100225-60 04
Column phase: CLP2

Instrument: eod8a.i
Operator: JAO
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/051f5101.d
 Lab Smp Id: WAR100225-60 05 Client Smp ID: AR166005
 Inj Date : 01-MAR-2010 19:08
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100225-60 05
 Misc Info : |1660
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
 Als bottle: 51 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.251	2.251	0.000	12478207 100.000	99.0	80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.242	6.242	0.000	8648791 100.000	95.8	80.00- 120.00	100.00	

1 Aroclor-1016				CAS #: 12674-11-2			
2.809	2.808	0.001	4242255 1000.00	932	80.00- 120.00	100.00	
3.160	3.160	0.000	5517056 1000.00	983	107.79- 147.79	130.05	
3.304	3.303	0.001	2283938 1000.00	955	33.90- 73.90	53.84	
3.396	3.397	-0.001	2016588 1000.00	942	26.91- 66.91	47.54	
3.559	3.558	0.001	2925972 1000.00	944	48.93- 88.93	68.97	
Average of Peak Amounts =				951			

7 Aroclor-1260				CAS #: 11096-82-5			
4.432	4.432	0.000	5963949 1000.00	921	80.00- 120.00	100.00	
4.628	4.627	0.001	8974683 1000.00	940	130.79- 170.79	150.48	
4.904	4.902	0.002	5305736 1000.00	936	69.42- 109.42	88.96	
5.075	5.075	0.000	5530197 1000.00	937	72.49- 112.49	92.73	
5.486	5.487	-0.001	6017436 1000.00	966	79.29- 119.29	100.90	
Average of Peak Amounts =				940			

Data File: /chem/ecdb8a.i/030110.b/051f5101.d

Date : 01-MAR-2010 19:08

Client ID: AR16005

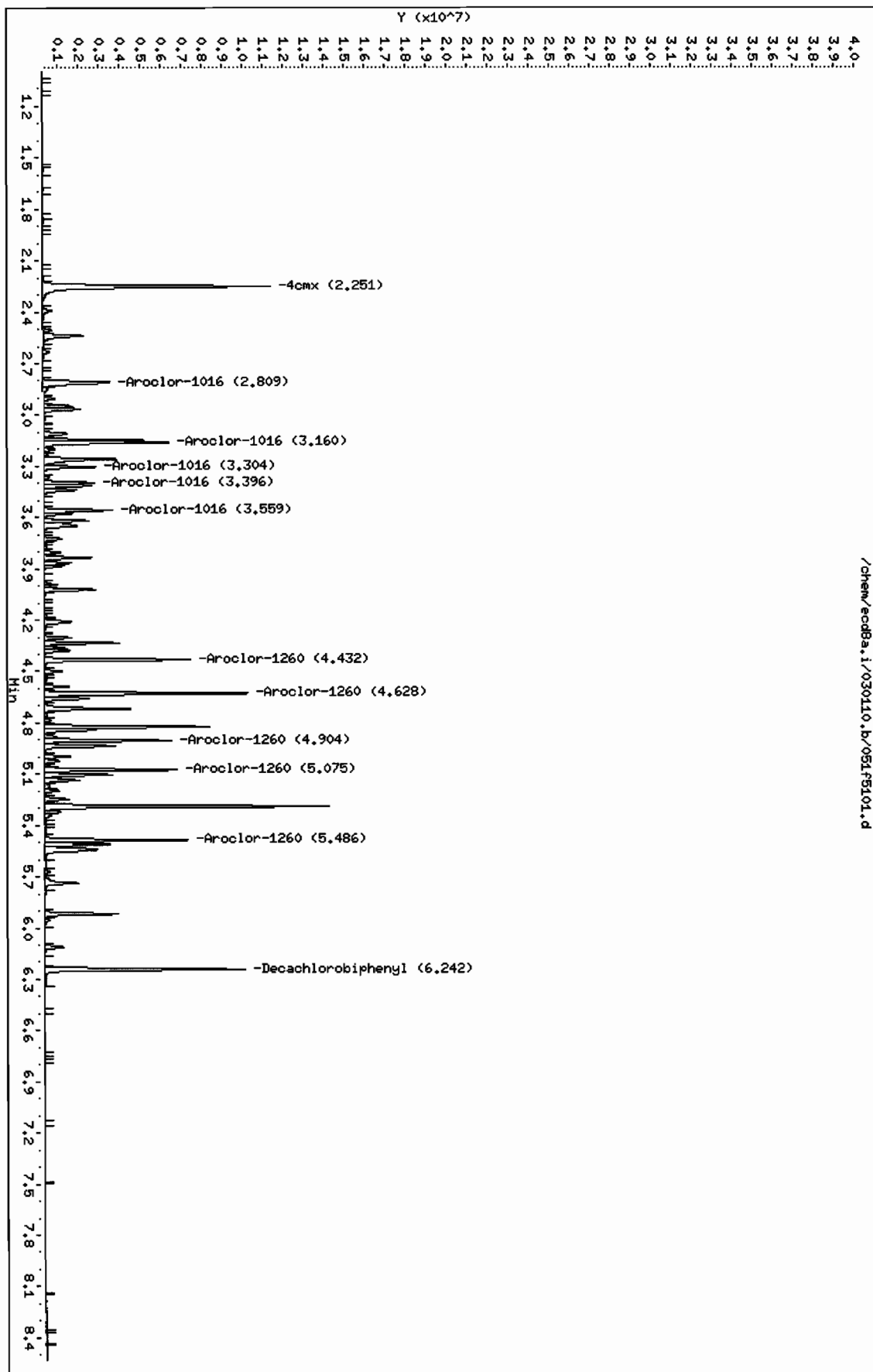
Sample Info: IMR100225-60 05

Column phase: CLP1

Instrument: ecdb8a.i

Operator: JHDC

Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/051b5101.d

Lab Smp Id: WAR100225-60 05

Client Smp ID: AR166005

Inj Date : 01-MAR-2010 19:08

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 05

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 51

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

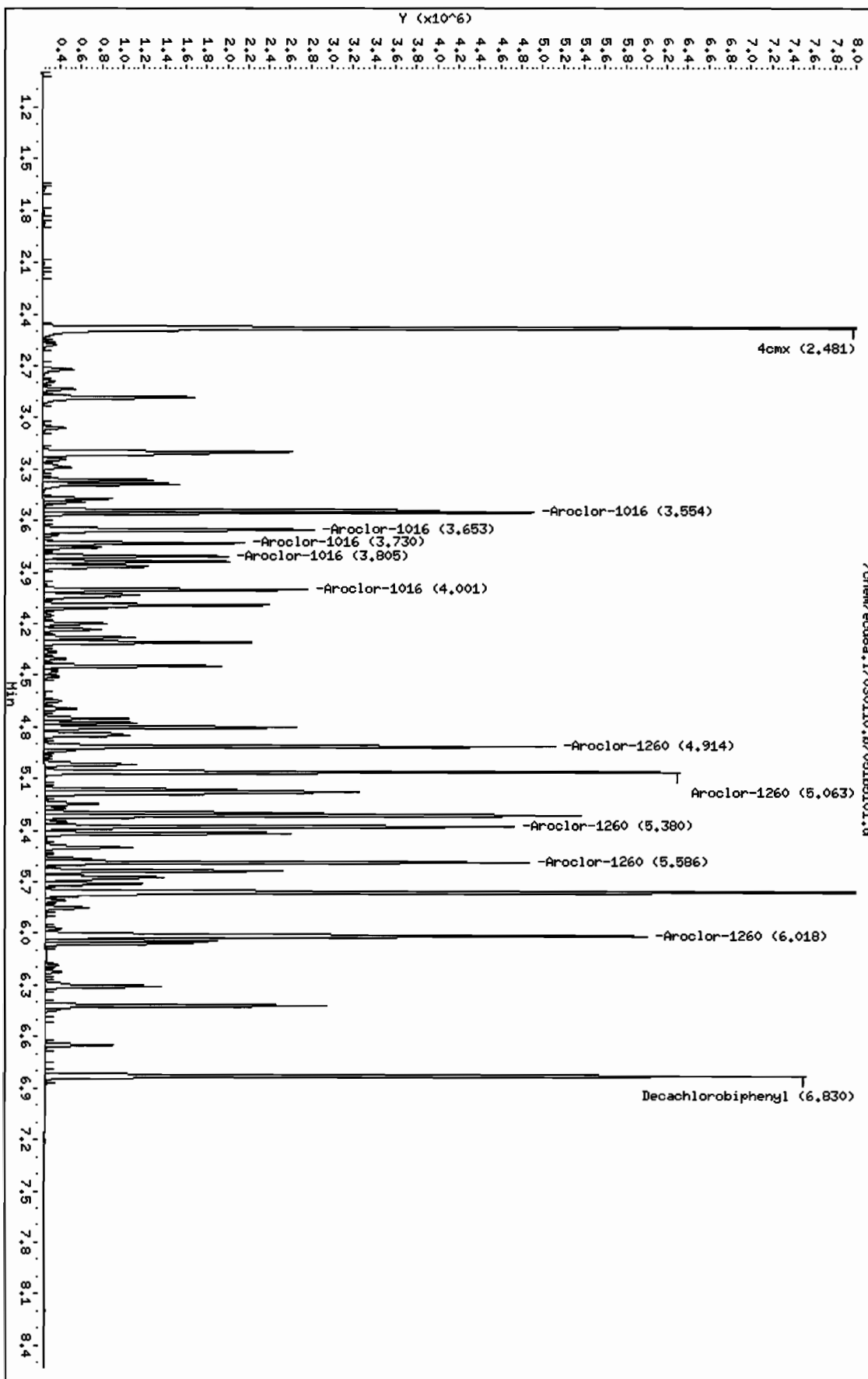
Sample Matrix: None

AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
<hr/>							
\$ 11 4cmx					CAS #: 877-09-8		
2.481	2.482	-0.001	8645647	100.000	105	80.00- 120.00	100.00
<hr/>							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.830	6.830	0.000	6314656	100.000	102	80.00- 120.00	100.00
<hr/>							
1 Aroclor-1016					CAS #: 12674-11-2		
3.554	3.554	0.000	3863421	1000.00	1070	80.00- 120.00	100.00
3.653	3.653	0.000	2446230	1000.00	1010	42.92- 82.92	63.32
3.730	3.729	0.001	1496902	1000.00	1030	18.30- 58.30	38.75
3.805	3.804	0.001	1443118	1000.00	1010	16.98- 56.98	37.35
4.001	4.001	0.000	2010933	1000.00	1030	30.86- 70.86	52.05
Average of Peak Amounts =					1.03e+03		
<hr/>							
7 Aroclor-1260					CAS #: 11096-82-5		
4.914	4.913	0.001	4062112	1000.00	1020	80.00- 120.00	100.00
5.063	5.062	0.001	4982798	1000.00	1040	102.31- 142.31	122.67
5.380	5.379	0.001	3779663	1000.00	1030	72.92- 112.92	93.05
5.586	5.586	0.000	3934920	1000.00	1030	76.79- 116.79	96.87
6.018	6.017	0.001	6219877	1000.00	1040	132.37- 172.37	153.12
Average of Peak Amounts =					1.03e+03		

Data File: /chem/ecod8a.i/030110.b/051b5101.d
Date: 01-MAR-2010 19:08
Client ID: KR166005
Sample Info: 1MAR100225-60 05
Column phase: CLP2

Instrument: ecod8a.i
Operator: JADC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/056f5601.d

Lab Smp Id: WAR100225-60 06 Client Smp ID: AR166006

Inj Date : 01-MAR-2010 20:10

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100225-60 06

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d

Als bottle: 56 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: AR1660.sub

Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE	RATIO	
---	-----	-----	-----	-----	-----	-----	-----	
\$ 11 4cmx					CAS #: 877-09-8			
2.251	2.251	0.000	12686451	100.000	101	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.243	6.242	0.001	8852000	100.000	98.0	80.00-	120.00	100.00 (M)

1 Aroclor-1016					CAS #: 12674-11-2			
2.809	2.808	0.001	4318942	1000.00	949	80.00-	120.00	100.00
3.161	3.160	0.001	5519319	1000.00	984	107.79-	147.79	127.79
3.304	3.303	0.001	2327943	1000.00	973	33.90-	73.90	53.90
3.396	3.397	-0.001	2026145	1000.00	946	26.91-	66.91	46.91
3.559	3.558	0.001	2977173	1000.00	961	48.93-	88.93	68.93
Average of Peak Amounts =					963			

7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.432	0.001	6159296	1000.00	951	80.00-	120.00	100.00 (M)
4.629	4.627	0.002	9287585	1000.00	973	130.79-	170.79	150.79
4.904	4.902	0.002	5507644	1000.00	972	69.42-	109.42	89.42
5.076	5.075	0.001	5696834	1000.00	965	72.49-	112.49	92.49
5.487	5.487	0.000	6115653	1000.00	982	79.29-	119.29	99.29
Average of Peak Amounts =					969			

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/ecdb8a.i/030110.b/056f5601.d

Date: 01-MAR-2010 20:10

Client ID: AR166006

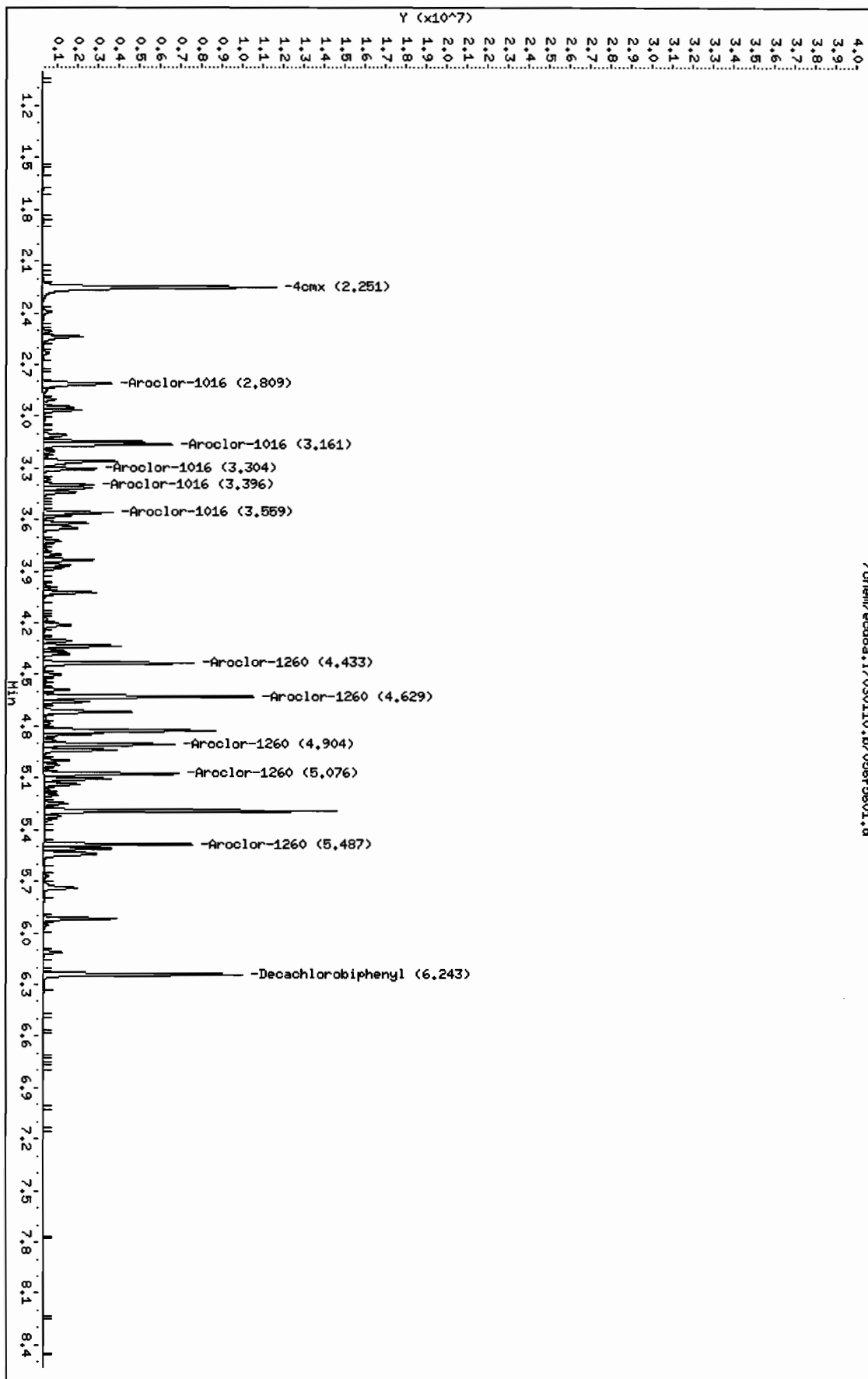
Sample Info: WAF100225-60 06

Column phase: CLP1

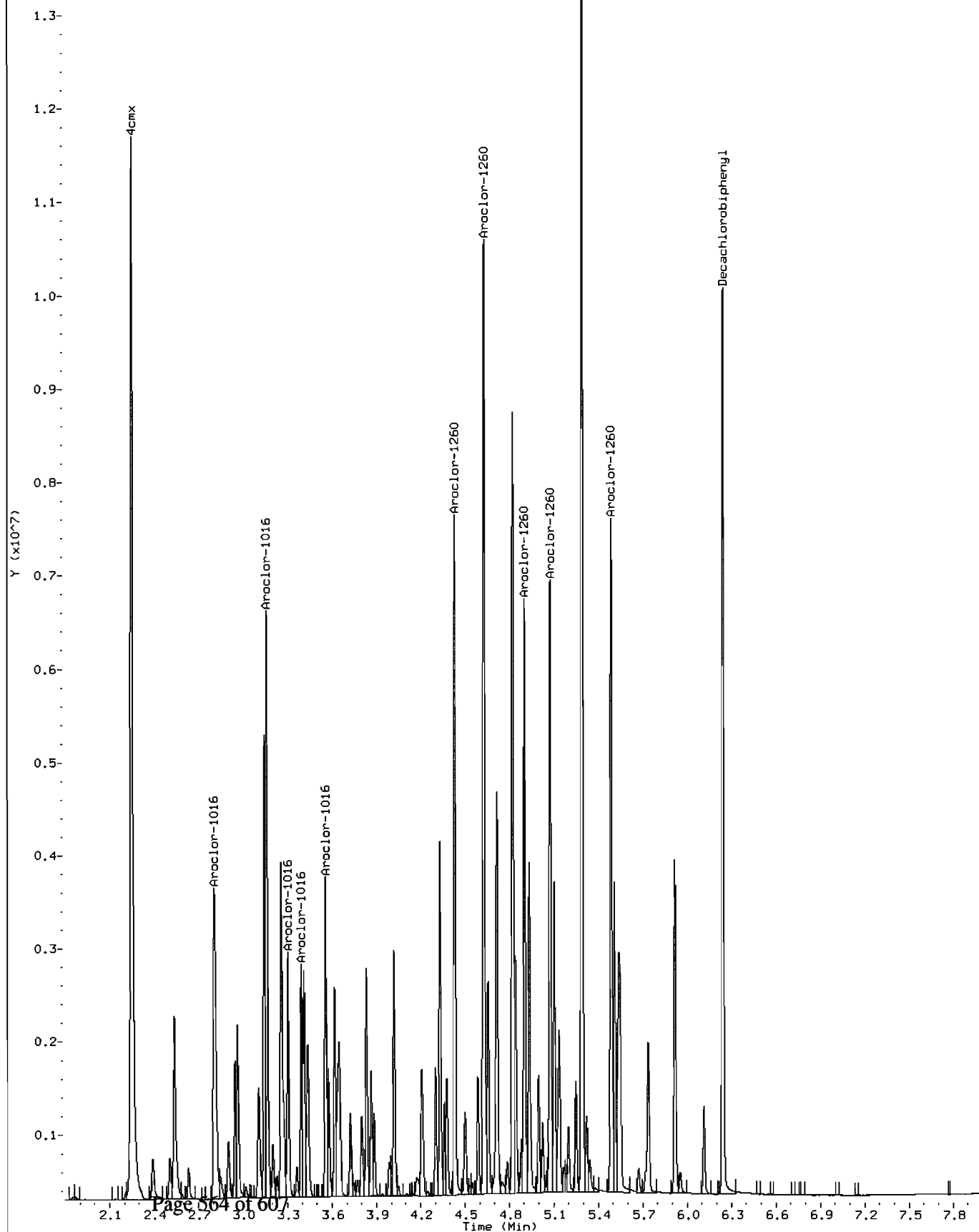
Instrument: ecdb8a.i

Operator: JHOC

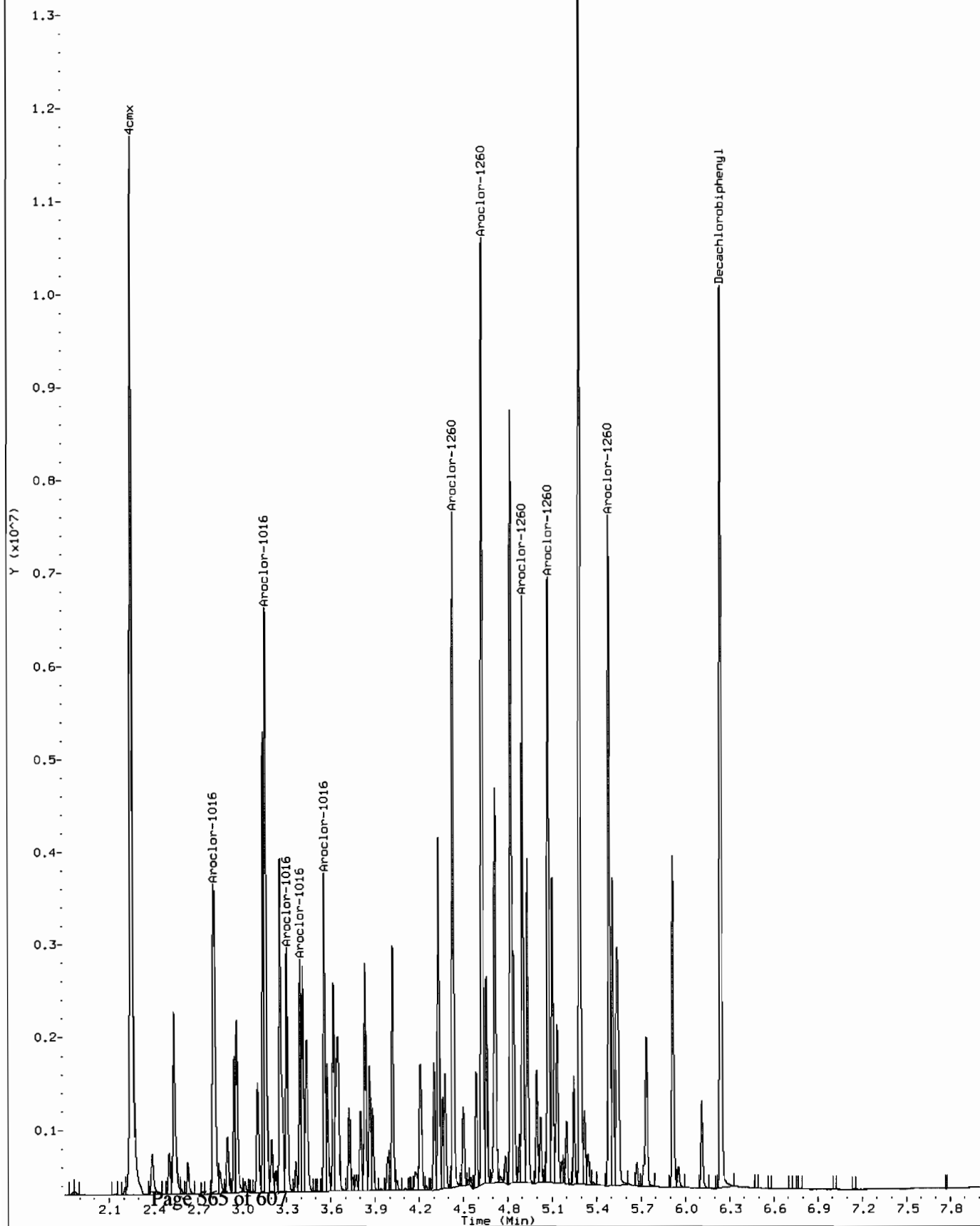
Column diameter: 0.25



Comment: Manually Integrated
Data File: /chem/ecd8a.i/030110.b/05615601.d
Operator: JAOC
Injection Date: 01-MAR-2010 20:10
Instrument: ecd8a.i
Client Sample ID: AR166006



Comment: Before manual integration
Data File: /chem/ecd8a.i/030110.b/orig-056f5601.d
Operator: JAOC
Injection Date: 01-MAR-2010 20:10
Instrument: ecd8a.i
Client Sample ID: AR166006



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/056b5601.d
 Lab Smp Id: WAR100225-60 06 Client Smp ID: AR166006
 Inj Date : 01-MAR-2010 20:10
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |WAR100225-60 06
 Misc Info : |1660
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 56 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: AR1660.sub
 Target Version: 3.50 Sample Matrix: None

AMOUNTS

			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/L)	TARGET RANGE		RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	8740563	100.000	106	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.830	6.830	0.000	6351351	100.000	103	80.00-	120.00	100.00

1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.554	0.000	3928197	1000.00	1080	80.00-	120.00	100.00
3.654	3.653	0.001	2471523	1000.00	1020	42.92-	82.92	62.92
3.729	3.729	0.000	1504579	1000.00	1040	18.30-	58.30	38.30
3.804	3.804	0.000	1452798	1000.00	1010	16.98-	56.98	36.98
4.001	4.001	0.000	1998000	1000.00	1020	30.86-	70.86	50.86
Average of Peak Amounts =					1.04e+03			

7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.913	0.001	4121984	1000.00	1040	80.00-	120.00	100.00
5.063	5.062	0.001	5041676	1000.00	1050	102.31-	142.31	122.31
5.379	5.379	0.000	3830069	1000.00	1040	72.92-	112.92	92.92
5.586	5.586	0.000	3989494	1000.00	1040	76.79-	116.79	96.79
6.018	6.017	0.001	6280518	1000.00	1050	132.37-	172.37	152.37
Average of Peak Amounts =					1.04e+03			

Data File: /chem/ecdb8a.i/030110.b/05665601.d

Date : 01-MAR-2010 20:10

Client ID: AR166006

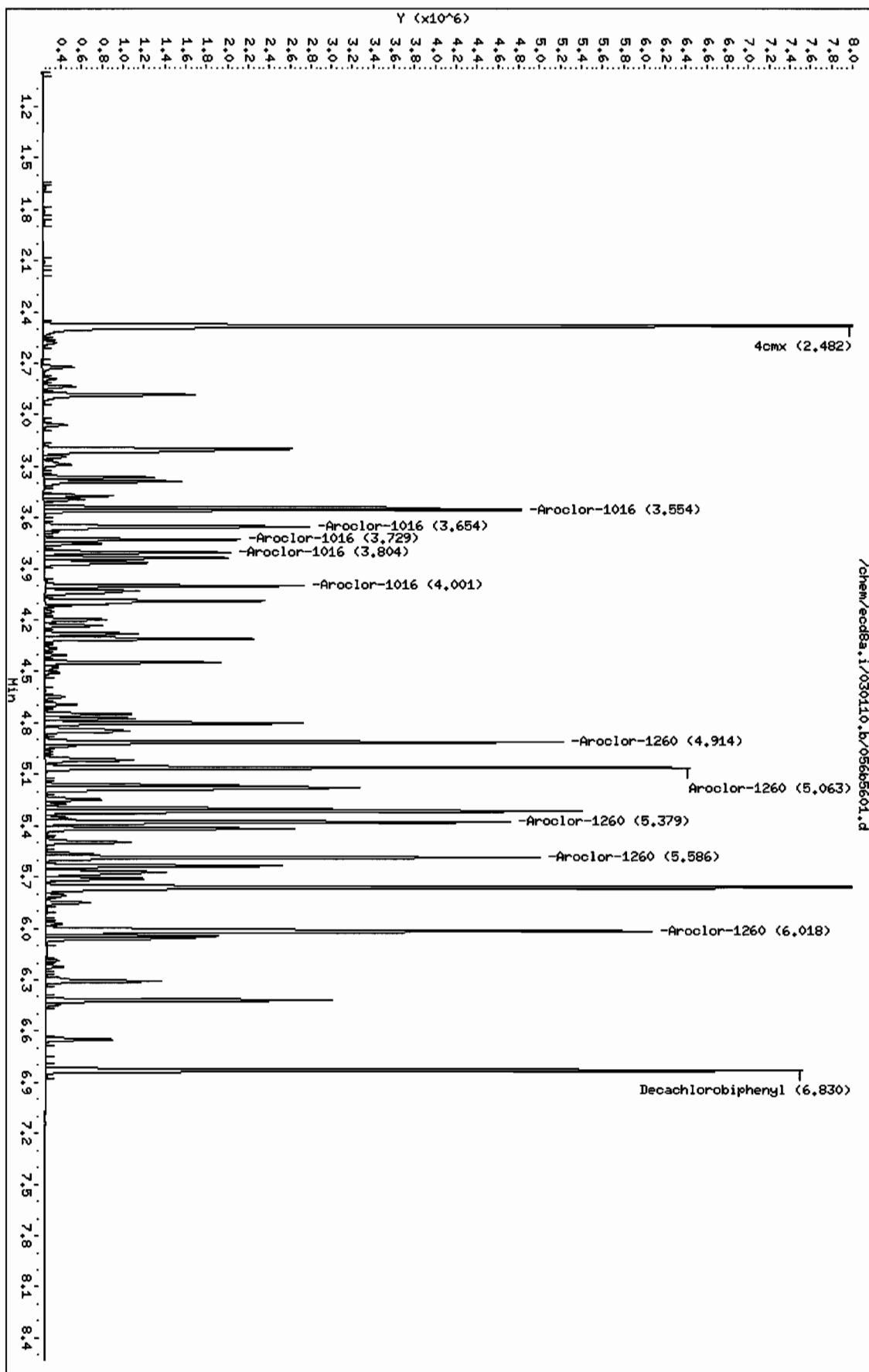
Sample Info: IWR100225-60 06

Instrument: ecdb8a.i

Page 1

Column phase: CLP2

Operator: JROC
Column diameter: 0.25



8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.25 DCB: 6.24							
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #		
01	PIBLK01	WAR100105-99	02/23/10 0814	2.25	6.24		
02	ZZZZZ	ZZZZZ	02/23/10 0826	2.25	6.24		
03	AR125401	WAR100201-54	02/23/10 0839				
04	AR124201	WAR091217-42	02/23/10 0851				
05	AR124801	WAR091217-48	02/23/10 0903				
06	AR123201	WAR100104-32	02/23/10 0916				
07	AR166001	WAR100223-01	02/23/10 0928	2.25	6.24		
08	AR166002	WAR100223-02	02/23/10 0941	2.25	6.24		
09	AR166003	WAR100223-03	02/23/10 0953	2.25	6.24		
10	AR166004	WAR100223-04	02/23/10 1005	2.25	6.24		
11	AR166005	IAR100223-01	02/23/10 1018	2.25	6.24		
12	ZZZZZ	ZZZZZ	02/23/10 1030	2.25	6.24		
13	AR122101	WAR100223-05	02/23/10 1043				
14	AR122102	WAR100223-06	02/23/10 1055				
15	AR122103	WAR100223-07	02/23/10 1107				
16	AR122104	WAR100223-08	02/23/10 1120				
17	AR122105	IAR100104-02	02/23/10 1132				
18	AR122101	WAR100104-21	02/23/10 1145				
19	AR166001	WAR100222-60	02/23/10 1157	2.25	6.24		
20	AR126201	WAR100104-62	02/23/10 1209				
21	AR126801	WAR100107-68	02/23/10 1222				
22	DDTANALOGSTD	WAR091219-DD	02/23/10 1234				
23	PIBLK02	WAR100105-99	02/23/10 1246	2.25	6.24		
24	ZZZZZ	ZZZZZ	02/23/10 1259	2.25	6.24		
25	ZZZZZ	ZZZZZ	02/23/10 1311	2.25	6.24		
26	ZZZZZ	ZZZZZ	02/23/10 1324	2.25	6.24		
27	ZZZZZ	ZZZZZ	02/23/10 1336	2.25	6.24		
28	ZZZZZ	ZZZZZ	02/23/10 1348	2.25	6.24		
29	AR166002	WAR100222-60	02/23/10 1401	2.25	6.24		
30	PIBLK03	WAR100105-99	02/23/10 1413	2.25	6.24		
31	ZZZZZ	ZZZZZ	02/23/10 1426	2.25	6.24		
32	ZZZZZ	ZZZZZ	02/23/10 1438	2.25	6.24		

S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.48			DCB: 6.83			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT
						#
01	PIBLK01	WAR100105-99	02/23/10	0814	2.48	6.83
02	ZZZZZ	ZZZZZ	02/23/10	0826	2.48	6.83
03	AR125401	WAR100201-54	02/23/10	0839		
04	AR124201	WAR091217-42	02/23/10	0851		
05	AR124801	WAR091217-48	02/23/10	0903		
06	AR123201	WAR100104-32	02/23/10	0916		
07	AR166001	WAR100223-01	02/23/10	0928	2.48	6.83
08	AR166002	WAR100223-02	02/23/10	0941	2.48	6.83
09	AR166003	WAR100223-03	02/23/10	0953	2.48	6.83
10	AR166004	WAR100223-04	02/23/10	1005	2.48	6.83
11	AR166005	IAR100223-01	02/23/10	1018	2.48	6.83
12	ZZZZZ	ZZZZZ	02/23/10	1030	2.48	6.83
13	AR122101	WAR100223-05	02/23/10	1043		
14	AR122102	WAR100223-06	02/23/10	1055		
15	AR122103	WAR100223-07	02/23/10	1107		
16	AR122104	WAR100223-08	02/23/10	1120		
17	AR122105	IAR100104-02	02/23/10	1132		
18	AR122101	WAR100104-21	02/23/10	1145		
19	AR166001	WAR100222-60	02/23/10	1157	2.48	6.83
20	AR126201	WAR100104-62	02/23/10	1209		
21	AR126801	WAR100107-68	02/23/10	1222		
22	DDTANALOGSTD	WAR091219-DD	02/23/10	1234		
23	PIBLK02	WAR100105-99	02/23/10	1246	2.48	6.83
24	ZZZZZ	ZZZZZ	02/23/10	1259	2.48	6.83
25	ZZZZZ	ZZZZZ	02/23/10	1311	2.48	6.83
26	ZZZZZ	ZZZZZ	02/23/10	1324	2.48	6.83
27	ZZZZZ	ZZZZZ	02/23/10	1336	2.48	6.83
28	ZZZZZ	ZZZZZ	02/23/10	1348	2.48	6.83
29	AR166002	WAR100222-60	02/23/10	1401	2.48	6.83
30	PIBLK03	WAR100105-99	02/23/10	1413	2.48	6.83
31	ZZZZZ	ZZZZZ	02/23/10	1426	2.48	6.83
32	ZZZZZ	ZZZZZ	02/23/10	1438	2.48	6.83

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.: 10-1956

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.25			DCB: 6.24			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	03/01/10	0849	2.25	6.24
02	AR166001	WAR100225-60	03/01/10	0901	2.25	6.24
03	AR125401	WAR100201-54	03/01/10	0914		
04	AR124201	WAR091217-42	03/01/10	0926		
05	AR124801	WAR091217-48	03/01/10	0938		
06	AR123201	WAR100104-32	03/01/10	0951		
07	AR122101	WAR100104-21	03/01/10	1003		
08	AR126201	WAR100104-62	03/01/10	1016		
09	AR126801	WAR100107-68	03/01/10	1028		
10	DDTANALOGSTD	WAR091219-DD	03/01/10	1040		
11	PIBLK02	WAR100219-99	03/01/10	1053	2.25	6.24
12	ZZZZZ	ZZZZZ	03/01/10	1105	2.25	6.24
13	ZZZZZ	ZZZZZ	03/01/10	1117	2.25	6.24
14	ZZZZZ	ZZZZZ	03/01/10	1130	2.25	6.24
15	AR166002	WAR100225-60	03/01/10	1142	2.25	6.24
16	PIBLK03	WAR100219-99	03/01/10	1155	2.25	6.24
17	ZZZZZ	ZZZZZ	03/01/10	1207	2.25	6.24
18	ZZZZZ	ZZZZZ	03/01/10	1219	2.25	6.24
19	ZZZZZ	ZZZZZ	03/01/10	1232	2.25	6.24
20	ZZZZZ	ZZZZZ	03/01/10	1244	2.25	6.24
21	ZZZZZ	ZZZZZ	03/01/10	1256	2.25	6.24
22	ZZZZZ	ZZZZZ	03/01/10	1309	2.25	6.24
23	ZZZZZ	ZZZZZ	03/01/10	1321	2.25	6.24
24	ZZZZZ	ZZZZZ	03/01/10	1333	2.25	6.24
25	ZZZZZ	ZZZZZ	03/01/10	1346	2.25	6.24
26	ZZZZZ	ZZZZZ	03/01/10	1358	2.25	6.24
27	AR166003	WAR100225-60	03/01/10	1411	2.25	6.24
28	PIBLK04	WAR100219-99	03/01/10	1423	2.25	6.24
29	PBLK01	1202054241	03/01/10	1435	2.25	6.24
30	PBLK01LCS	1202054242	03/01/10	1448	2.25	6.24
31	ZZZZZ	ZZZZZ	03/01/10	1500	2.25	6.24
32	ZZZZZ	ZZZZZ	03/01/10	1513	2.25	6.24

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.: 10-1956

GC Column: CLP1 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.25			DCB: 6.24		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	03/01/10	1525	2.25	6.24
02	ZZZZZ	03/01/10	1537	2.25	6.24
03	ZZZZZ	03/01/10	1550	2.25	6.24
04	ZZZZZ	03/01/10	1602	2.25	6.24
05	ZZZZZ	03/01/10	1614	2.25	6.24
06	ZZZZZ	03/01/10	1627	2.25	6.24
07	AR166004	WAR100225-60	1639	2.25	6.24
08	PIBLK05	WAR100219-99	1651	2.25	6.24
09	ZZZZZ	03/01/10	1704	2.25	6.24
10	ZZZZZ	03/01/10	1716	2.25	6.24
11	ZZZZZ	03/01/10	1729	2.25	6.24
12	RE15-10-8252	247565001	1741	2.25	6.24
13	RE15-10-8253	247565002	1753	2.25	6.24
14	RE15-10-8250	247565003	1806	2.25	6.24
15	RE15-10-8251	247565004	1818	2.25	6.24
16	RE15-10-8248	247565005	1831	2.25	6.24
17	RE15-10-8249	247565006	1843	2.25	6.24
18	RE15-10-8247	247565007	1855	2.25	6.24
19	AR166005	WAR100225-60	1908	2.25	6.24
20	PIBLK06	WAR100219-99	1920	2.25	6.24
21	RE15-10-8254	247565008	1932	2.25	6.24
22	RE15-10-8268	247565009	1945	2.25	6.24
23	RE15-10-8264	247565010	1957	2.25	6.24
24	AR166006	WAR100225-60	2010	2.25	6.24
25	PIBLK07	WAR100219-99	2022	2.25	6.24
26					
27					
28					
29					
30					
31					
32					

QC LIMITS
S1 = 4cmx (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1956

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.48 DCB: 6.83							
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	DCB RT	#
01	PIBLK01	WAR100219-99	03/01/10	0849		2.48	6.83
02	AR166001	WAR100225-60	03/01/10	0901		2.48	6.83
03	AR125401	WAR100201-54	03/01/10	0914			
04	AR124201	WAR091217-42	03/01/10	0926			
05	AR124801	WAR091217-48	03/01/10	0938			
06	AR123201	WAR100104-32	03/01/10	0951			
07	AR122101	WAR100104-21	03/01/10	1003			
08	AR126201	WAR100104-62	03/01/10	1016			
09	AR126801	WAR100107-68	03/01/10	1028			
10	DDTANALOGSTD	WAR091219-DD	03/01/10	1040			
11	PIBLK02	WAR100219-99	03/01/10	1053		2.48	6.83
12	ZZZZZ	ZZZZZ	03/01/10	1105		2.48	6.83
13	ZZZZZ	ZZZZZ	03/01/10	1117		2.48	6.83
14	ZZZZZ	ZZZZZ	03/01/10	1130		2.48	6.83
15	AR166002	WAR100225-60	03/01/10	1142		2.48	6.83
16	PIBLK03	WAR100219-99	03/01/10	1155		2.48	6.83
17	ZZZZZ	ZZZZZ	03/01/10	1207		2.48	6.83
18	ZZZZZ	ZZZZZ	03/01/10	1219		2.48	6.83
19	ZZZZZ	ZZZZZ	03/01/10	1232		2.48	6.83
20	ZZZZZ	ZZZZZ	03/01/10	1244		2.48	6.83
21	ZZZZZ	ZZZZZ	03/01/10	1256		2.48	6.83
22	ZZZZZ	ZZZZZ	03/01/10	1309		2.48	6.83
23	ZZZZZ	ZZZZZ	03/01/10	1321		2.48	6.83
24	ZZZZZ	ZZZZZ	03/01/10	1333		2.48	6.83
25	ZZZZZ	ZZZZZ	03/01/10	1346		2.48	6.83
26	ZZZZZ	ZZZZZ	03/01/10	1358		2.48	6.83
27	AR166003	WAR100225-60	03/01/10	1411		2.48	6.83
28	PIBLK04	WAR100219-99	03/01/10	1423		2.48	6.83
29	PBLK01	1202054241	03/01/10	1435		2.48	6.83
30	PBLK01LCS	1202054242	03/01/10	1448		2.48	6.83
31	ZZZZZ	ZZZZZ	03/01/10	1500		2.48	6.83
32	ZZZZZ	ZZZZZ	03/01/10	1513		2.48	6.83

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.: 10-1956

GC Column: CLP2 ID: 0.25 (mm) Init. Calib. Date(s): 02/23/10 02/23/10

Instrument ID: ECD8A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 2.48		DCB: 6.83			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	03/01/10	1525	2.48	6.83
02	ZZZZZ	03/01/10	1537	2.48	6.83
03	ZZZZZ	03/01/10	1550	2.48	6.83
04	ZZZZZ	03/01/10	1602	2.48	6.83
05	ZZZZZ	03/01/10	1614	2.48	6.83
06	ZZZZZ	03/01/10	1627	2.48	6.83
07	AR166004	WAR100225-60	1639	2.48	6.83
08	PIBLK05	WAR100219-99	1651	2.48	6.83
09	ZZZZZ	03/01/10	1704	2.48	6.83
10	ZZZZZ	03/01/10	1716	2.48	6.83
11	ZZZZZ	03/01/10	1729	2.48	6.83
12	RE15-10-8252	247565001	1741	2.48	6.83
13	RE15-10-8253	247565002	1753	2.48	6.83
14	RE15-10-8250	247565003	1806	2.48	6.83
15	RE15-10-8251	247565004	1818	2.48	6.83
16	RE15-10-8248	247565005	1831	2.48	6.83
17	RE15-10-8249	247565006	1843	2.48	6.83
18	RE15-10-8247	247565007	1855	2.48	6.83
19	AR166005	WAR100225-60	1908	2.48	6.83
20	PIBLK06	WAR100219-99	1920	2.48	6.83
21	RE15-10-8254	247565008	1932	2.48	6.83
22	RE15-10-8268	247565009	1945	2.48	6.83
23	RE15-10-8264	247565010	1957	2.48	6.83
24	AR166006	WAR100225-60	2010	2.48	6.83
25	PIBLK07	WAR100219-99	2022	2.48	6.83
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Identification Summary

Page 1 of 1

SDG Number: 10-1956

Client ID: LCS for batch 957952

Lab Sample ID: 1202054242

Data File: 030f3001.d

Data File: 030b3001.d

Inst: ECD8A.I_1

Inst: ECD8A.I_2

Column: CLP1

Column: CLP2

Analyzed: 01-MAR-10 14:48

Analyzed: 01-MAR-10 14:48

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
Aroclor-1016							4.07
Column 1	1	2.81	2.78 – 2.84	22.5		ug/kg	
	2	3.16	3.13 – 3.19	22.6		ug/kg	
	3	3.3	3.27 – 3.33	22.4		ug/kg	
	4	3.4	3.37 – 3.43	22.2		ug/kg	
	5	3.56	3.53 – 3.59	22.1		ug/kg	
					22.3		
Column 2	1	3.55	3.52 – 3.58	23.6		ug/kg	
	2	3.65	3.62 – 3.68	23.4		ug/kg	
	3	3.73	3.7 – 3.76	23		ug/kg	
	4	3.8	3.77 – 3.83	23		ug/kg	
	5	4	3.97 – 4.03	23.4		ug/kg	
					23.3		
Aroclor-1260							5.34
Column 1	1	4.43	4.4 – 4.46	24.8		ug/kg	
	2	4.63	4.6 – 4.66	25.3		ug/kg	
	3	4.9	4.87 – 4.93	25.5		ug/kg	
	4	5.07	5.04 – 5.1	25.6		ug/kg	
	5	5.49	5.46 – 5.52	26.3		ug/kg	
					25.5		
Column 2	1	4.91	4.88 – 4.94	26.3		ug/kg	
	2	5.06	5.03 – 5.09	26.6		ug/kg	
	3	5.38	5.35 – 5.41	26.9		ug/kg	
	4	5.59	5.56 – 5.62	26.8		ug/kg	
	5	6.02	5.99 – 6.05	27.8		ug/kg	
					26.9		

QUALITY CONTROL DATA

PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1956

Matrix: SOIL

Lab Sample ID: 1202054241

Client Sample: QC for batch 957952

Client: LANL010

Project: QC

Client ID: MB for batch 957952

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 957955

Inst: ECD8A.I

Dilution: 1

Run Date: 03/01/2010 14:35

Analyst: JAOC

Inj. Vol: 1 uL

Prep Date: 02/26/2010 10:21

Aliquot: 30 g

Final Volume: 1 mL

Data File: 029f2901-1.d

Column: 1 CLP1

Level: LOW

029b2901-1.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.33	ug/kg	1.11	3.33	1
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260	U	3.33	ug/kg	1.11	3.33	1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/029f2901.d
Lab Smp Id: 1202054241 Client Smp ID: PBLK01
Inj Date : 01-MAR-2010 14:35
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202054241|1|
Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MB|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

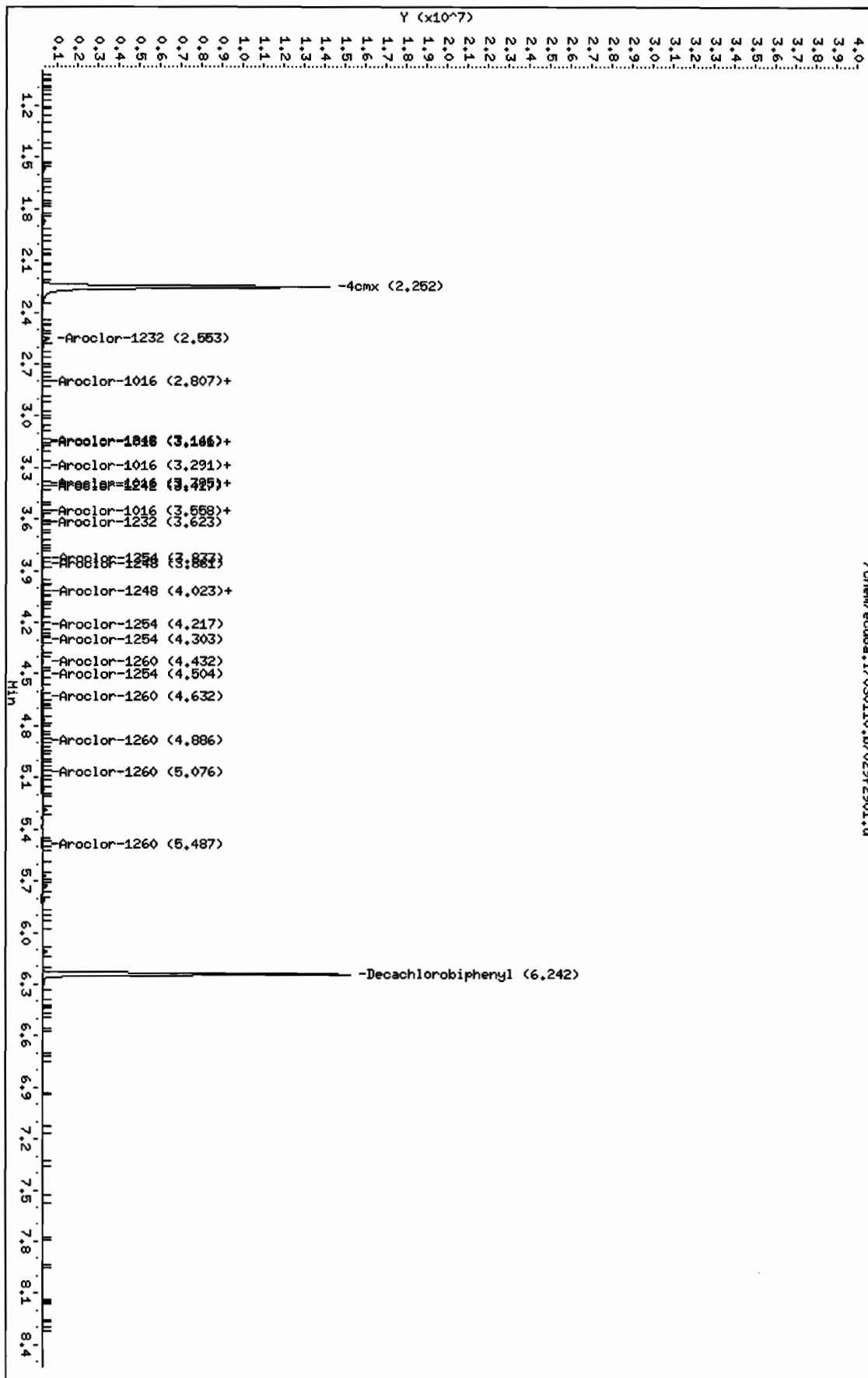
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
					CAS #: 877-09-8		
\$ 11 4cmx	2.252	2.251	0.001	15631709 124.052	4.1 80.00- 120.00	100.00	

					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.242	6.242	0.000	13281963 147.058	4.9 80.00- 120.00	100.00	

Data File: /chem/ecod8a.i/030110.b/029f2901.d
Date: 01-MAR-2010 14:35
Client ID: PBLK01
Sample Info: 1120205424111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecod8a.i
Operator: JADC
Column diameter: 0.25

/chem/ecod8a.i/030110.b/029f2901.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/029b2901.d
 Lab Smp Id: 1202054241 Client Smp ID: PBLK01
 Inj Date : 01-MAR-2010 14:35
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202054241|1|
 Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MB|||
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 01-Mar-2010 14:20 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 29 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1956.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

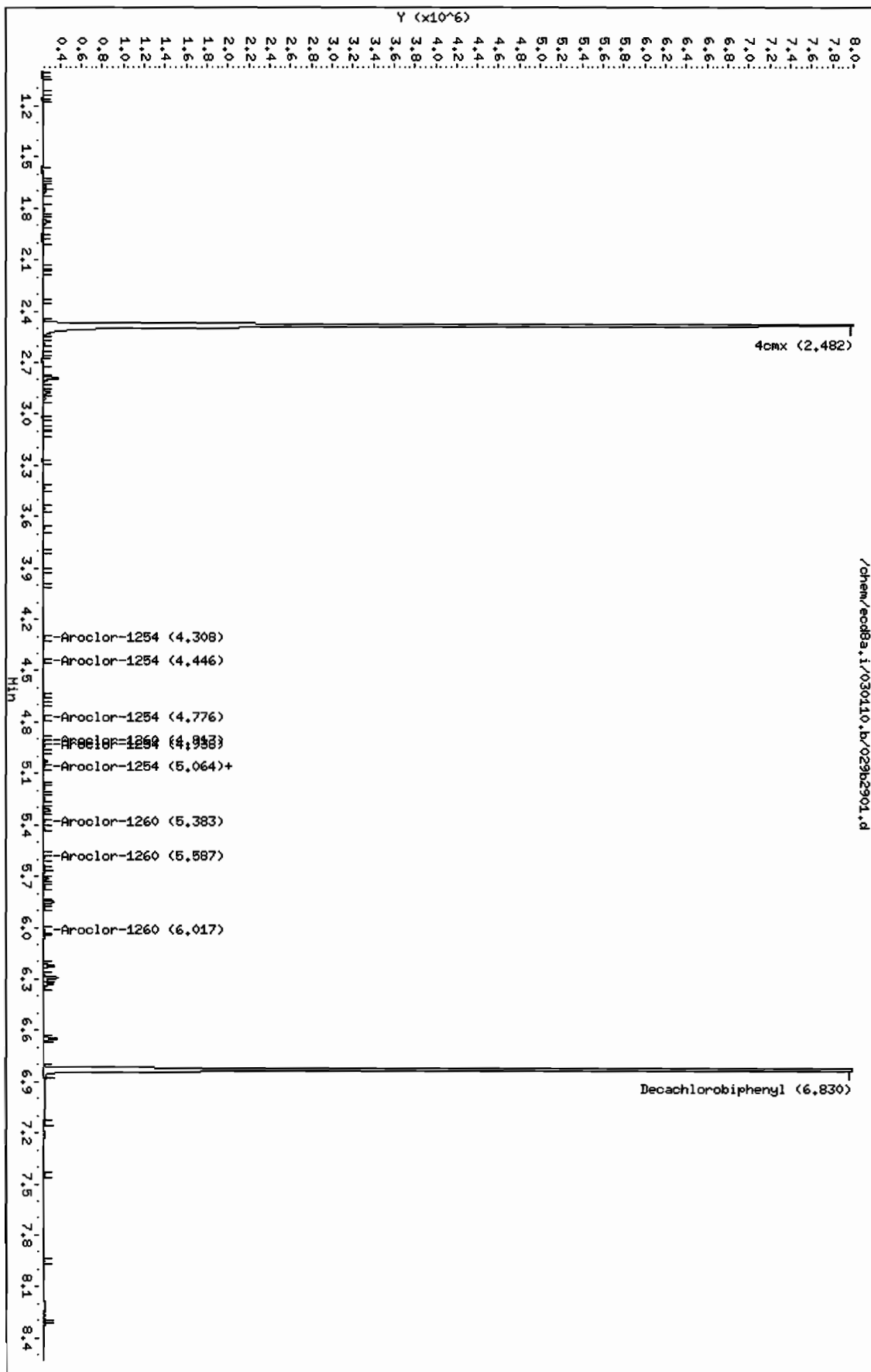
CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====		
\$ 11 4cmx				CAS #: 877-09-8				
2.482	2.482	0.000	10664173	129.302	4.3 80.00- 120.00	100.00		

\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
6.830	6.830	0.000	9675266	156.970	5.2 80.00- 120.00	100.00		

Data File: /chem/ecodba.i/030110.b/029b2901.d
Date: 01-MAR-2010 14:35
Client ID: PBLK01
Sample Info: 1120206424111
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecodba.i
Operator: JHOC
Column diameter: 0.25

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PCB
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 10-1956
Lab Sample ID: 1202054242
Client Sample: QC for batch 957952
Client ID: LCS for batch 957952
Batch ID: 957955
Run Date: 03/01/2010 14:48
Prep Date: 02/26/2010 10:21
Data File: 030f3001-1.d
030b3001-1.d

Client: LANL010
Method: SW846 8082
Inst: ECD8A.I
Analyst: JAOC
Aliquot: 30 g
Column: 1 CLP1
2 CLP2

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

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016		23.3	ug/kg	1.11	3.33	2
11104-28-2	Aroclor-1221	U	3.33	ug/kg	1.11	3.33	1
11141-16-5	Aroclor-1232	U	3.33	ug/kg	1.11	3.33	1
53469-21-9	Aroclor-1242	U	3.33	ug/kg	1.11	3.33	1
12672-29-6	Aroclor-1248	U	3.33	ug/kg	1.11	3.33	1
11097-69-1	Aroclor-1254	U	3.33	ug/kg	1.11	3.33	1
11096-82-5	Aroclor-1260		26.9	ug/kg	1.11	3.33	2

Data File: /chem/ecd8a.i/030110.b/030f3001.d
Report Date: 02-Mar-2010 09:47

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/030f3001.d
Lab Smp Id: 1202054242 Client Smp ID: PBLK01LCS
Inj Date : 01-MAR-2010 14:48
Operator : JAOC Inst ID: ecd8a.i
Smp Info : |1202054242|1|
Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|LCS|||
Comment :
Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 10-1956.sub
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	

\$ 11 4cmx			CAS #: 877-09-8				
2.252	2.251	0.001	16224558	128.757	4.3 80.00- 120.00	100.00	

\$ 12 Decachlorobiphenyl			CAS #: 2051-24-3				
6.242	6.242	0.000	12883754	142.649	4.8 80.00- 120.00	100.00	

1 Aroclor-1016			CAS #: 12674-11-2				
2.809	2.808	0.001	3065923	673.641	22.4 80.00- 120.00	100.00	
3.161	3.160	0.001	3795935	676.630	22.6 107.79- 147.79	123.81	
3.304	3.303	0.001	1606445	671.507	22.4 33.90- 73.90	52.40	
3.397	3.397	0.000	1426810	666.540	22.2 26.91- 66.91	46.54	
3.558	3.558	0.000	2056259	663.489	22.1 48.93- 88.93	67.07	
Average of Peak Concentrations =				22.3			

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

7 Aroclor-1260

CAS #: 11096-82-5

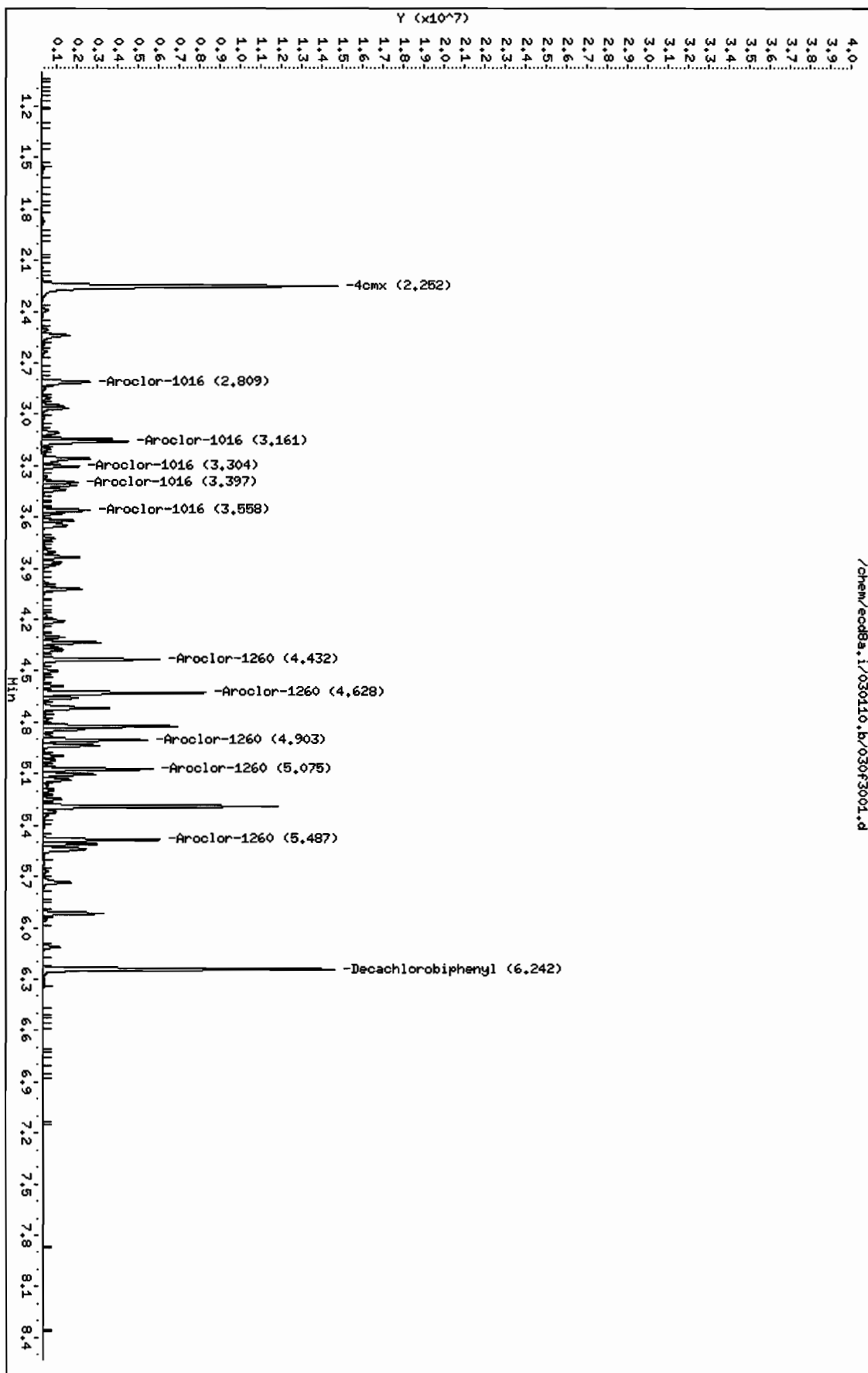
4.432	4.432	0.000	4819343	744.237	24.8	80.00- 120.00	100.00
4.628	4.627	0.001	7240325	758.287	25.3	130.79- 170.79	150.23
4.903	4.902	0.001	4334505	765.047	25.5	69.42- 109.42	89.94
5.075	5.075	0.000	4537276	768.505	25.6	72.49- 112.49	94.15
5.487	5.487	0.000	4912626	788.693	26.3	79.29- 119.29	101.94

Average of Peak Concentrations = 25.5

Data File: /chem/eodBa.i/030110.b/030f3001.d
Date : 01-MAR-2010 14:48
Client ID: PRLK01LCS
Sample Info: 1120205424211
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eodBa.i
Operator: JHOC
Column diameter: 0.25

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Data File: /chem/ecd8a.i/030110.b/030b3001.d
Report Date: 02-Mar-2010 09:38

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/030b3001.d

Lab Smp Id: 1202054242

Client Smp ID: PBLK01LCS

Inj Date : 01-MAR-2010 14:48

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202054242|1|

Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|LCS|||

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m

Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 30

QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1956.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

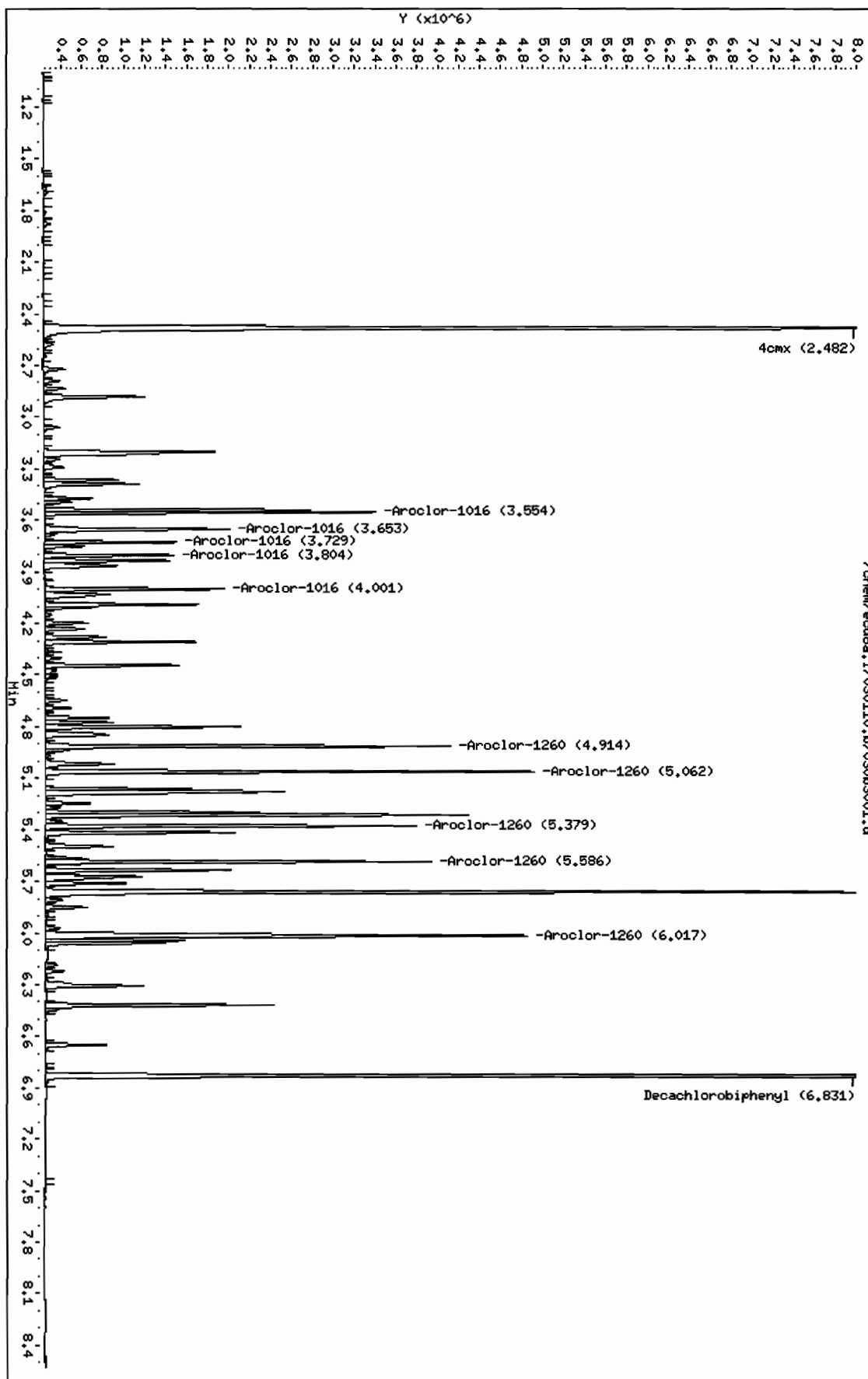
Local Compound Variable

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx					CAS #: 877-09-8		
2.482	2.482	0.000	11236476	136.241	4.5	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.831	6.830	0.001	9422592	152.871	5.1	80.00- 120.00	100.00
1 Aroclor-1016					CAS #: 12674-11-2		
3.554	3.554	0.000	2561398	707.675	23.6	80.00- 120.00	100.00
3.653	3.653	0.000	1692181	702.107	23.4	42.92- 82.92	66.06
3.729	3.729	0.000	1003472	690.564	23.0	18.30- 58.30	39.18
3.804	3.804	0.000	989255	689.962	23.0	16.98- 56.98	38.62
4.001	4.001	0.000	1372550	700.891	23.4	30.86- 70.86	53.59
Average of Peak Concentrations =				23.3			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.913	0.001	3127564	788.475	26.3	80.00- 120.00	100.00	
5.062	5.062	0.000	3836984	797.868	26.6	102.31- 142.31	122.68	
5.379	5.379	0.000	2972077	807.675	26.9	72.92- 112.92	95.03	
5.586	5.586	0.000	3079850	805.021	26.8	76.79- 116.79	98.47	
6.017	6.017	0.000	5007262	835.406	27.8	132.37- 172.37	160.10	
Average of Peak Concentrations =					26.9			

Data File: /chem/ecdb8a.1/030110.b/030b3001.d
Date: 01-MAR-2010 14:48
Client ID: PBLK01LCS
Sample Info: 1420205424211
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: ecdb8a.1
Operator: JHOC
Column diameter: 0.25



MISCELLANEOUS DATA

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 02/24/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR: JAOC REVIEWED BY: _____
DATE: _____
HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA699
ALUMINA LOT 1240553-A
COPPER LOT 236547-A
Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040
EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/022310.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100105-99 01	JAOC	23-FEB-2010 08:14		022310	1.0l	CLEAN	
002f0201.d	WAR100203-60 01	JAOC	23-FEB-2010 08:26		022310	1.0l	DUSE	
003f0301.d	WAR100201-54	JAOC	23-FEB-2010 08:39		022310	1.0l	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	23-FEB-2010 08:51		022310	1.0l	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	23-FEB-2010 09:03		022310	1.0l	PASSES BOTH COLUMNS	
006f0601.d	WAR100104-32	JAOC	23-FEB-2010 09:16		022310	1.0l	PATTERN ONLY	
007f0701.d	WAR100223-01 60	JAOC	23-FEB-2010 09:28		022310	1.0l	1660 LEVEL 1	
008f0801.d	WAR100223-02 60	JAOC	23-FEB-2010 09:41		022310	1.0l	1660 LEVEL 2	
009f0901.d	WAR100223-03 60	JAOC	23-FEB-2010 09:53		022310	1.0l	1660 LEVEL 3	
010f1001.d	WAR100223-04 60	JAOC	23-FEB-2010 10:05		022310	1.0l	1660 LEVEL 4	
011f1101.d	WAR100223-01 60	JAOC	23-FEB-2010 10:18		022310	1.0l	1660 LEVEL 5	
012f1201.d	WAR100222-60 01	JAOC	23-FEB-2010 10:30		022310	1.0l	DUSE	
013f1301.d	WAR100223-05 21	JAOC	23-FEB-2010 10:43		022310	1.0l	1221 LEVEL 1	
014f1401.d	WAR100223-06 21	JAOC	23-FEB-2010 10:55		022310	1.0l	1221 LEVEL 2	
015f1501.d	WAR100223-07 21	JAOC	23-FEB-2010 11:07		022310	1.0l	1221 LEVEL 3	

Instrument Batch: /chem/ecd8a.i/022310.b

Page: 1

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100223-08 21	JAOC	23-FEB-2010 11:20		022310	1.0l	1221 LEVEL 4	
017f1701.d	WAR100104-02 21	JAOC	23-FEB-2010 11:32		022310	1.0l	1221 LEVEL 5	

018f1801.d		WAR100104-21		JAOC		23-FEB-2010 11:45		1022310		1.0		PASSES BOTH COLUMNS			
019f1901.d		WAR100222-60 01		JAOC		23-FEB-2010 11:57		1022310		1.0		PASSES BOTH COLUMNS			
020f2001.d		WAR100104-62		JAOC		23-FEB-2010 12:09		1022310		1.0		PATTERN ONLY			
021f2101.d		WAR100107-68		JAOC		23-FEB-2010 12:22		1022310		1.0		PATTERN ONLY			
022f2201.d		WAR091219-DDT		JAOC		23-FEB-2010 12:34		1022310		1.0		DDT			
023f2301.d		WAR100105-99 02		JAOC		23-FEB-2010 12:46		1022310		1.0		CLEAN			
024f2401.d		1202048644		JAOC		23-FEB-2010 12:59		955558		10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER	
025f2501.d		1202048645		JAOC		23-FEB-2010 13:11		955558		10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER	
026f2601.d		246863005		JAOC		23-FEB-2010 13:24		955558		10-1781		1.0 LANL		UPLOAD BOTH, USE HIGHER	
027f2701.d		1202048646		JAOC		23-FEB-2010 13:36		955558		10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER	
028f2801.d		1202048647		JAOC		23-FEB-2010 13:48		955558		10-1781		1.0 QC A		UPLOAD BOTH, USE HIGHER	
029f2901.d		WAR100222-60 02		JAOC		23-FEB-2010 14:01		1022310		1.0		PASSES BOTH COLUMNS			
030f3001.d		WAR100105-99 03		JAOC		23-FEB-2010 14:13		1022310		1.0		CLEAN			
031f3101.d		1202047548		JAOC		23-FEB-2010 14:26		955074		1022310		1.0 QC A		DUSE	
032f3201.d		1202047549		JAOC		23-FEB-2010 14:38		955074		1.0 QC A		DUSE			
033f3301.d		243880001		JAOC		23-FEB-2010 14:50		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
034f3401.d		243880002		JAOC		23-FEB-2010 15:03		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
035f3501.d		243880003		JAOC		23-FEB-2010 15:15		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
036f3601.d		243880004		JAOC		23-FEB-2010 15:28		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
037f3701.d		243880005		JAOC		23-FEB-2010 15:40		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
038f3801.d		243880006		JAOC		23-FEB-2010 15:53		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
039f3901.d		243880007		JAOC		23-FEB-2010 16:05		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
040f4001.d		243880008		JAOC		23-FEB-2010 16:17		955074		2010AR1221MDL-L		1.0 QCQA		DUSE	
041f4101.d		WAR100222-60 03		JAOC		23-FEB-2010 16:30		1022310		1.0		PASSES BOTH COLUMNS			

Instrument Batch: /chem/ecd8a.i/022310.b

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Instrument Batch: /chem/ecd8a.i/022310.b

Page: 2

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	243880004	JAOC	23-FEB-2010 15:28	955074	2010AR1221MDL-L	1.0	QCQA	DUSE
037f3701.d	243880005	JAOC	23-FEB-2010 15:40	955074	2010AR1221MDL-L	1.0	QCQA	DUSE
038f3801.d	243880006	JAOC	23-FEB-2010 15:53	955074	2010AR1221MDL-L	1.0	QCQA	DUSE
039f3901.d	243880007	JAOC	23-FEB-2010 16:05	955074	2010AR1221MDL-L	1.0	QCQA	DUSE
040f4001.d	243880008	JAOC	23-FEB-2010 16:17	955074	2010AR1221MDL-L	1.0	QCQA	DUSE
041f4101.d	WAR100222-60 03	JAOC	23-FEB-2010 16:30		022310	1.0		PASSES BOTH COLUMNS

042f4201.d	WAR100105-99 04	JAOC	23-FEB-2010 16:42		022310		1.01		CLEAN	+
043f4301.d	243884001	JAOC	23-FEB-2010 16:55	955074	2010MDLVECD81221-L1		1.01 QCOA		DUSE	+
044f4401.d	243884002	JAOC	23-FEB-2010 17:07	955074	2010MDLVECD81221-L1		1.01 QCOA		DUSE	+
045f4501.d	243884003	JAOC	23-FEB-2010 17:19	955074	2010MDLVECD81221-L1		1.01 QCOA		DUSE	+
046f4601.d	243884004	JAOC	23-FEB-2010 17:32	955074	2010MDLVECD81221-L1		1.01 QCOA		DUSE	+

GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 03/02/2010 METHOD: ECD8-F-8082-020310a.m OPERATOR: JAOC REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 1 on pg. 1 SOLVENT LOT DA936
ALUMINA LOT 1240553-A
COPPER LOT 236547-A

Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standards Log
Initial Calibration Std ID's: See Calibration History and Standards Log
GEL SOP GL-OA-E-040

EPA Method: 8082 Polychlorinated Biphenyls PCBs by Gas Chromatography
Sequence Number: /chem/ecd8a.i/030110.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
001f0101.d	WAR100219-99 01	JAOC	01-MAR-2010 08:49		030110	1.0l	CLEAN	
002f0201.d	WAR100225-60 01	JAOC	01-MAR-2010 09:01		030110	1.0l	PASSES BOTH COLUMNS	
003f0301.d	WAR100201-54	JAOC	01-MAR-2010 09:14		030110	1.0l	PASSES BOTH COLUMNS	
004f0401.d	WAR091217-42	JAOC	01-MAR-2010 09:26		030110	1.0l	PASSES BOTH COLUMNS	
005f0501.d	WAR091217-48	JAOC	01-MAR-2010 09:38		030110	1.0l	PASSES BOTH COLUMNS	
006f0601.d	WAR100104-32	JAOC	01-MAR-2010 09:51		030110	1.0l	PATTERN ONLY	
007f0701.d	WAR100104-21	JAOC	01-MAR-2010 10:03		030110	1.0l	PATTERN ONLY	
008f0801.d	WAR100104-62	JAOC	01-MAR-2010 10:16		030110	1.0l	PATTERN ONLY	
009f0901.d	WAR100107-68	JAOC	01-MAR-2010 10:28		030110	1.0l	PATTERN ONLY	
010f1001.d	WAR091219-DDT	JAOC	01-MAR-2010 10:40		030110	1.0l	DDT	
011f1101.d	WAR100219-99 02	JAOC	01-MAR-2010 10:53		030110	1.0l	CLEAN	
012f1201.d	1202055328	JAOC	01-MAR-2010 11:05	958396	247962H	1.0lQC A	UPLOAD BOTH, USE HIGHER	
013f1301.d	1202055329	JAOC	01-MAR-2010 11:17	958396	247962H	1.0lQC A	UPLOAD BOTH, USE HIGHER	
014f1401.d	247962018	JAOC	01-MAR-2010 11:30	958396	247962H	1.0lSSFL	UPLOAD BOTH, USE HIGHER	
015f1501.d	WAR100225-60 02	JAOC	01-MAR-2010 11:42		030110	1.0l	PASSES BOTH COLUMNS	

Page: 1

Instrument Batch: /chem/ecd8a.i/030110.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
016f1601.d	WAR100219-99 03	JAOC	01-MAR-2010 11:55		030110	1.0l	CLEAN	
017f1701.d	1202055070	JAOC	01-MAR-2010 12:07	958280	247962H	1.0lQC A	UPLOAD BOTH, USE HIGHER	

018f1801.d	1202055071	JAOC	01-MAR-2010 12:19	958280	247962H	1.0 QC A	UPLOAD BOTH, USE HIGHER
019f1901.d	247962007	JAOC	01-MAR-2010 12:32	958280	247962H	1.0 SSFL	UPLOAD BOTH, USE HIGHER
020f2001.d	1202055072	JAOC	01-MAR-2010 12:44	958280	247962H	1.0 QC A	UPLOAD BOTH, USE HIGHER
021f2101.d	1202055073	JAOC	01-MAR-2010 12:56	958280	247962H	1.0 QC A	UPLOAD BOTH, USE HIGHER
022f2201.d	247962008	JAOC	01-MAR-2010 13:09	958280	247962H	5.0 SSFL	UPLOAD BOTH, USE HIGHER
023f2301.d	247962009	JAOC	01-MAR-2010 13:21	958280	247962H	5.0 SSFL	UPLOAD BOTH, USE HIGHER
024f2401.d	247962012	JAOC	01-MAR-2010 13:33	958280	247962H	1.0 SSFL	UPLOAD BOTH, USE HIGHER
025f2501.d	247962013	JAOC	01-MAR-2010 13:46	958280	247962H	1.0 SSFL	UPLOAD BOTH, USE HIGHER
026f2601.d	247962014	JAOC	01-MAR-2010 13:58	958280	247962H	1.0 SSFL	UPLOAD BOTH, USE HIGHER
027f2701.d	WAR100225-60 03	JAOC	01-MAR-2010 14:11		030110	1.0	PASSES BOTH COLUMNS
028f2801.d	WAR100219-99 04	JAOC	01-MAR-2010 14:23		030110	1.0	CLEAN
029f2901.d	1202054241	JAOC	01-MAR-2010 14:35	957955	10-1956	1.0 QC A	UPLOAD BOTH, USE HIGHER
030f3001.d	1202054242	JAOC	01-MAR-2010 14:48	957955	10-1956	1.0 QC A	UPLOAD BOTH, USE HIGHER
031f3101.d	247544001	JAOC	01-MAR-2010 15:00	957955	10-1963	1.0 LANL	UPLOAD BOTH, USE HIGHER
032f3201.d	247544002	JAOC	01-MAR-2010 15:13	957955	10-1963	1.0 LANL	UPLOAD BOTH, USE HIGHER
033f3301.d	247544003	JAOC	01-MAR-2010 15:25	957955	10-1963	1.0 LANL	UPLOAD BOTH, USE HIGHER
034f3401.d	247544004	JAOC	01-MAR-2010 15:37	957955	10-1963	1.0 LANL	UPLOAD BOTH, USE HIGHER
035f3501.d	247545001	JAOC	01-MAR-2010 15:50	957955	10-1964	1.0 LANL	UPLOAD BOTH, USE HIGHER
036f3601.d	247545002	JAOC	01-MAR-2010 16:02	957955	10-1964	5.0 LANL	UPLOAD BOTH, USE HIGHER
037f3701.d	247545003	JAOC	01-MAR-2010 16:14	957955	10-1964	5.0 LANL	UPLOAD BOTH, USE HIGHER
038f3801.d	247545005	JAOC	01-MAR-2010 16:27	957955	10-1964	5.0 LANL	UPLOAD BOTH, USE HIGHER
039f3901.d	WAR100225-60 04	JAOC	01-MAR-2010 16:39		030110	1.0	PASSES BOTH COLUMNS
040f4001.d	WAR100219-99 05	JAOC	01-MAR-2010 16:51		030110	1.0	CLEAN
041f4101.d	247550001	JAOC	01-MAR-2010 17:04	957955	10-1967	1.0 LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/030110.b

1042f4201.d	1202054243	JAC	01-MAR-2010 17:16	957955	10-1967	1.0 QC A	UPLOAD BOTH, USE HIGHER
1043f4301.d	1202054244	JAC	01-MAR-2010 17:29	957955	10-1967	1.0 QC A	UPLOAD BOTH, USE HIGHER
1044f4401.d	1247565001	JAC	01-MAR-2010 17:41	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1045f4501.d	1247565002	JAC	01-MAR-2010 17:53	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1046f4601.d	1247565003	JAC	01-MAR-2010 18:06	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1047f4701.d	1247565004	JAC	01-MAR-2010 18:18	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1048f4801.d	1247565005	JAC	01-MAR-2010 18:31	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1049f4901.d	1247565006	JAC	01-MAR-2010 18:43	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1050f5001.d	1247565007	JAC	01-MAR-2010 18:55	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1051f5101.d	WAR100225-60 05	JAC	01-MAR-2010 19:08		030110	1.0	PASSES BOTH COLUMNS
1052f5201.d	WAR100219-99 06	JAC	01-MAR-2010 19:20		030110	1.0	CLEAN
1053f5301.d	1247565008	JAC	01-MAR-2010 19:32	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1054f5401.d	1247565009	JAC	01-MAR-2010 19:45	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER
1055f5501.d	1247565010	JAC	01-MAR-2010 19:57	957955	10-1956	1.0 LANL	UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/030110.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1056f5601.d	WAR100225-60 06	JAC	01-MAR-2010 20:10		030110	1.0		PASSES BOTH COLUMNS
1057f5701.d	WAR100219-99 07	JAC	01-MAR-2010 20:22		030110	1.0		CLEAN

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/042b4201.d
 Lab Smp Id: 1202054243 Client Smp ID: RE46-10-12662MS
 Inj Date : 01-MAR-2010 17:16
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202054243|1|
 Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MS|||
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 42 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1967.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	11.21050	% Moisture

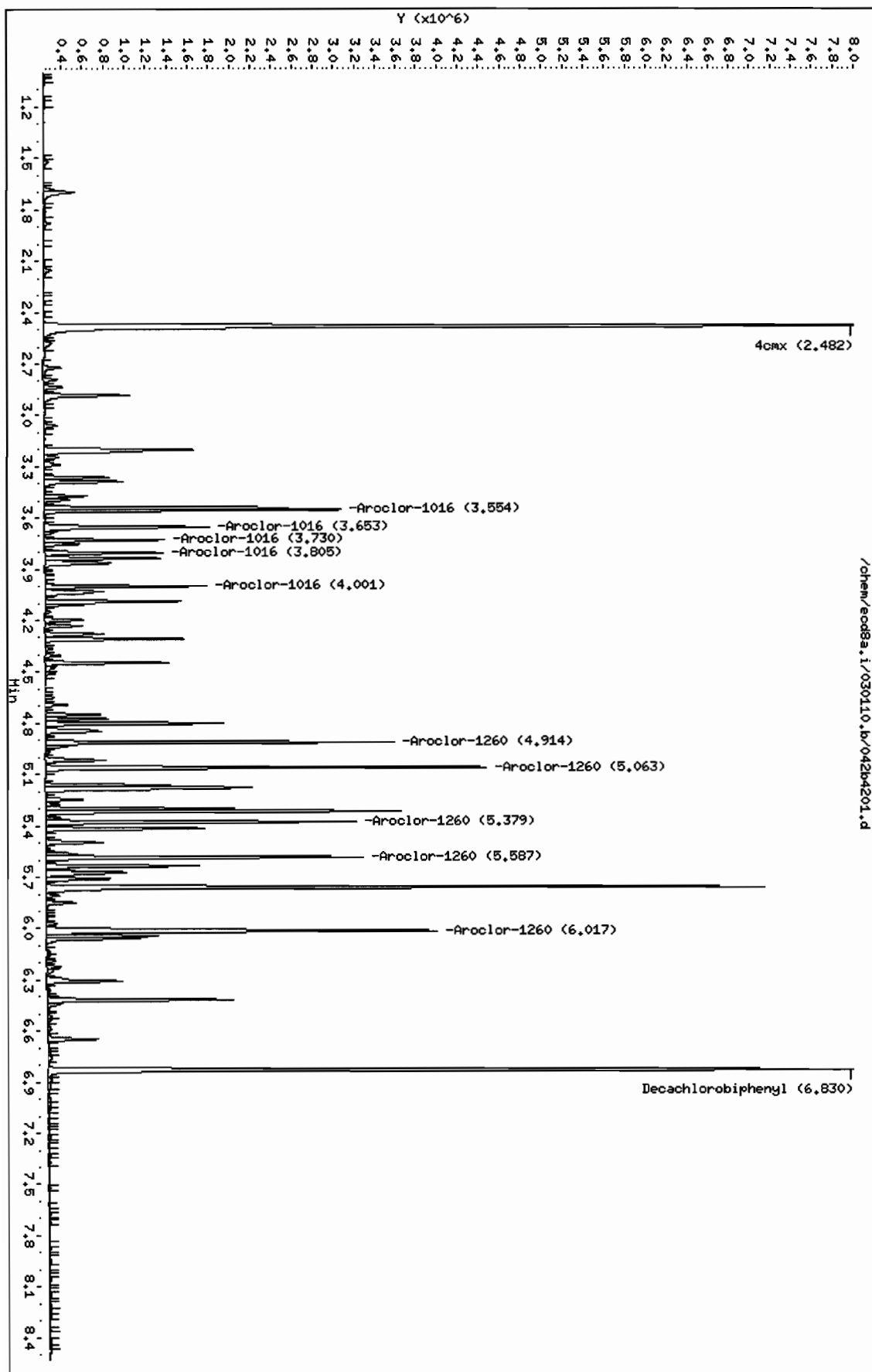
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL (ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.482	2.482	0.000	9400068 113.975	4.3	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.830	6.830	0.000	7590745 123.151	4.6	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
3.554	3.554	0.000	2361178 652.357	24.5	80.00- 120.00	100.00	
3.653	3.653	0.000	1505314 624.574	23.4	42.92- 82.92	63.75	
3.730	3.729	0.001	902310 620.947	23.3	18.30- 58.30	38.21	
3.805	3.804	0.001	905719 631.700	23.7	16.98- 56.98	38.36	
4.001	4.001	0.000	1237789 632.075	23.7	30.86- 70.86	52.42	
Average of Peak Concentrations =				23.7			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.913	0.001	2724722	686.917	25.8	80.00-	120.00	100.00
5.063	5.062	0.001	3352524	697.129	26.2	102.31-	142.31	123.04
5.379	5.379	0.000	2488927	676.377	25.4	72.92-	112.92	91.35
5.587	5.586	0.001	2558125	668.651	25.1	76.79-	116.79	93.89
6.017	6.017	0.000	4030678	672.474	25.2	132.37-	172.37	147.93
Average of Peak Concentrations =					25.5			

Data File: /chem/eod8a.i/030110.b/042b4201.d
Date : 01-MAR-2010 17:16
Client ID: RE46-10-12662MS
Sample Info: 1120205424311
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod8a.i
Operator: JADC
Column diameter: 0.25



Data File: /chem/ecd8a.i/030110.b/042f4201.d
Report Date: 02-Mar-2010 09:50

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/030110.b/042f4201.d

Lab Smp Id: 1202054243

Client Smp ID: RE46-10-12662MS

Inj Date : 01-MAR-2010 17:16

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202054243|1|

Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MS|

Comment :

Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m

Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 42

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1967.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	11.21050	% Moisture

Cpnd Variable

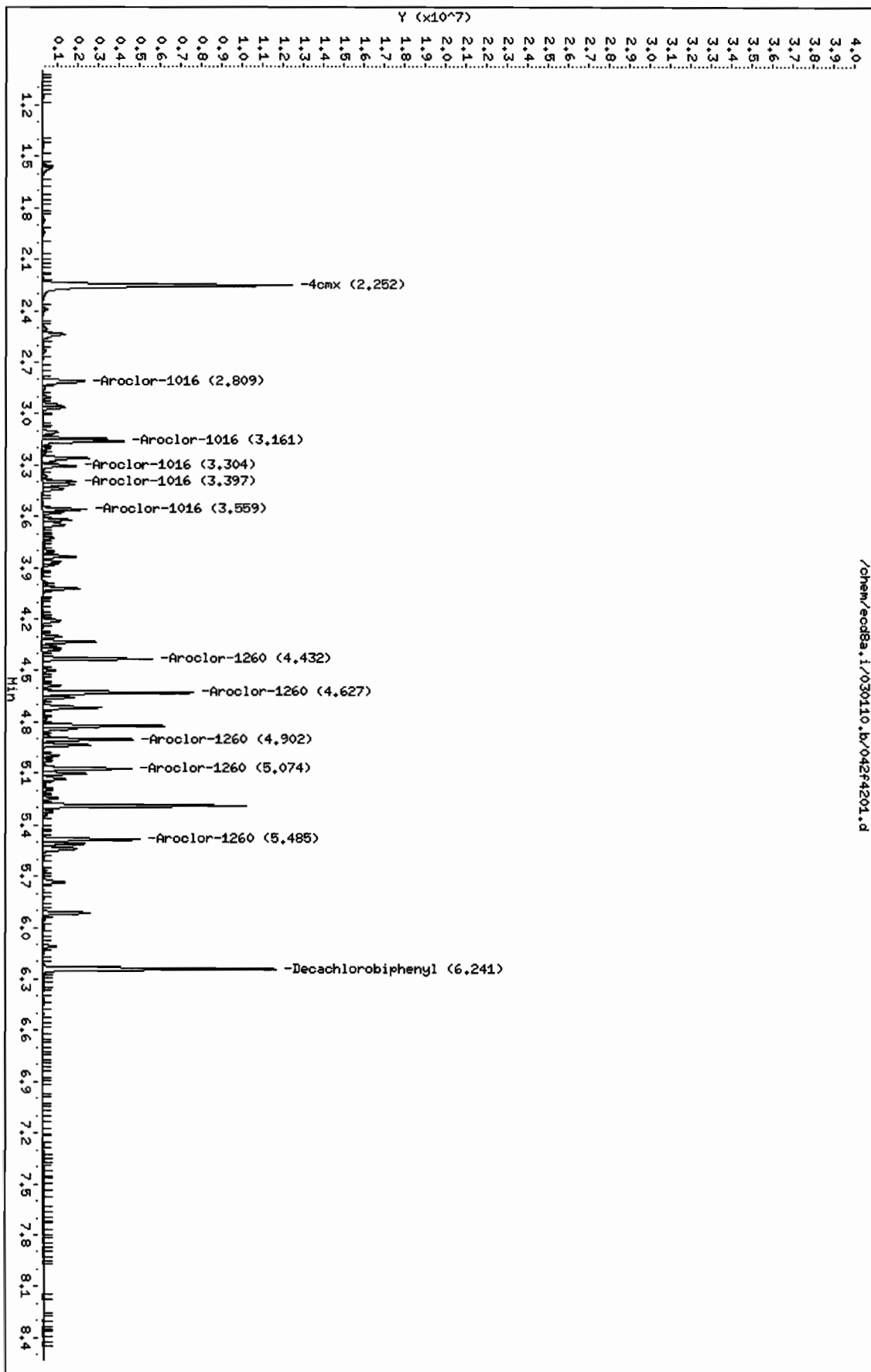
Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.252	2.251	0.001	13865280 110.034	4.1	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.241	6.242	-0.001	10046227 111.232	4.2	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.809	2.808	0.001	2650932 582.459	21.9	80.00-	120.00	100.00
3.161	3.160	0.001	3584373 638.919	24.0	107.79-	147.79	135.21
3.304	3.303	0.001	1452594 607.196	22.8	33.90-	73.90	54.80
3.397	3.397	0.000	1353137 632.124	23.7	26.91-	66.91	51.04
3.559	3.558	0.001	1865724 602.009	22.6	48.93-	88.93	70.38
Average of Peak Concentrations =				23.0			

CONCENTRATIONS							
			ON-COL		FINAL		
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5				
4.432	4.432	0.000	4300669	664.139	24.9	80.00- 120.00	100.00
4.627	4.627	0.000	6435461	673.993	25.3	130.79- 170.79	149.64
4.902	4.902	0.000	3623429	639.541	24.0	69.42- 109.42	84.25
5.074	5.075	-0.001	3666253	620.975	23.3	72.49- 112.49	85.25
5.485	5.487	-0.002	3948838	633.962	23.8	79.29- 119.29	91.82
Average of Peak Concentrations =					24.3		

Data File: /chem/ecdba.i/030110.b/0424201.d
Date: 01-MAR-2010 17:16
Client ID: RE46-10-1262HS
Sample Info: 11202054243111
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: ecdba.i
Operator: JROC
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/043b4301.d
 Lab Smp Id: 1202054244 Client Smp ID: RE46-10-12662MSD
 Inj Date : 01-MAR-2010 17:29
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202054244|1|
 Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MSD|
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-B-8082-020310a.m
 Meth Date : 02-Mar-2010 08:21 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d
 Als bottle: 43 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1967.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	11.21050	% 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			
2.482	2.482	0.000	9188082	111.404	4.2	80.00-	120.00	100.00

\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.830	6.830	0.000	7506187	121.779	4.6	80.00-	120.00	100.00

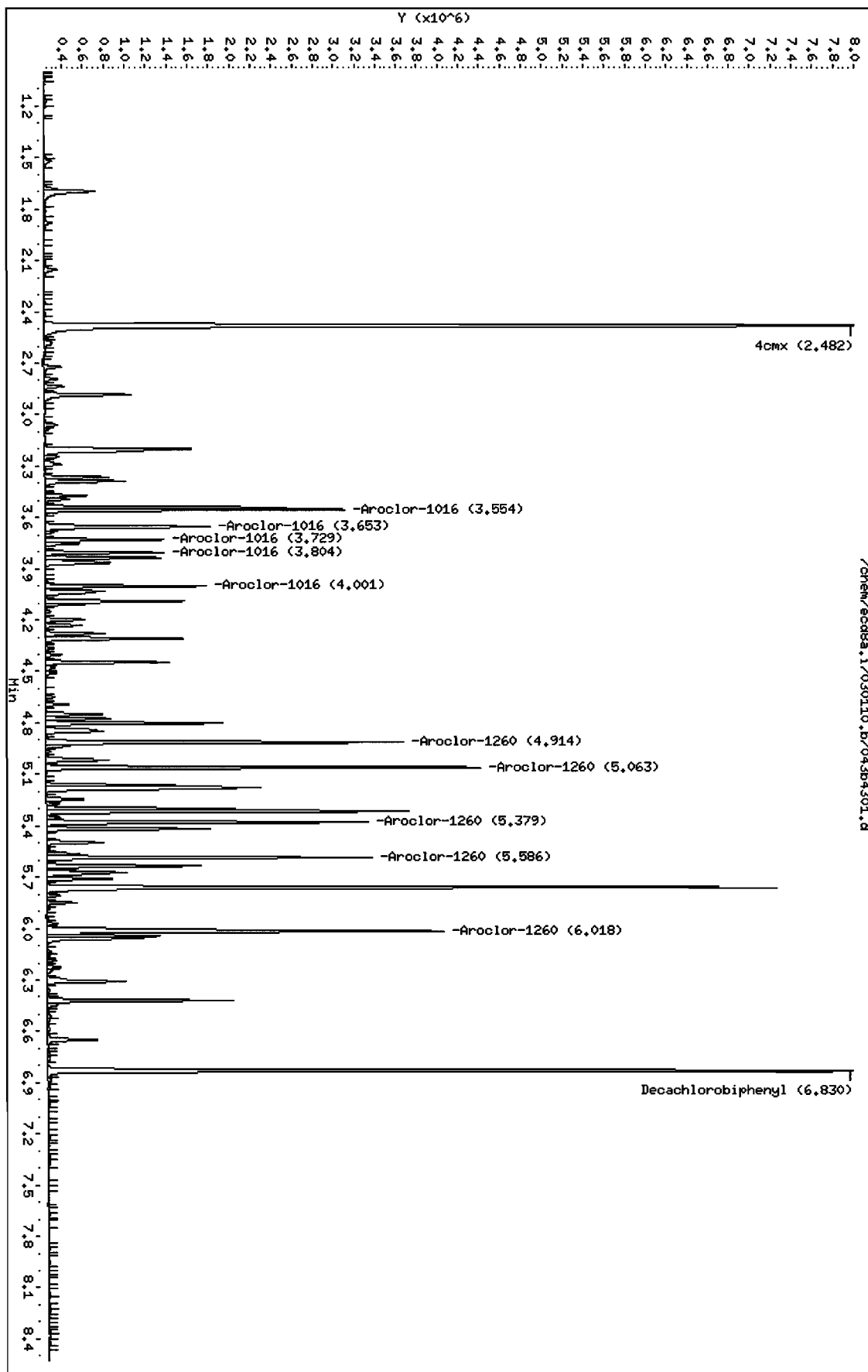
1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.554	0.000	2379683	657.470	24.7	80.00-	120.00	100.00
3.653	3.653	0.000	1522820	631.837	23.7	42.92-	82.92	63.99
3.729	3.729	0.000	913129	628.392	23.6	18.30-	58.30	38.37
3.804	3.804	0.000	922875	643.665	24.2	16.98-	56.98	38.78
4.001	4.001	0.000	1260286	643.563	24.2	30.86-	70.86	52.96
Average of Peak Concentrations =					24.1			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260					CAS #: 11096-82-5			
4.914	4.913	0.001	2795185	704.681	26.4	80.00- 120.00	100.00	
5.063	5.062	0.001	3430014	713.242	26.8	102.31- 142.31	122.71	
5.379	5.379	0.000	2544866	691.579	26.0	72.92- 112.92	91.04	
5.586	5.586	0.000	2602611	680.279	25.5	76.79- 116.79	93.11	
6.018	6.017	0.001	4102646	684.481	25.7	132.37- 172.37	146.78	
Average of Peak Concentrations =					26.1			

Data File: /chem/eod8a.i/030110.b/043b4301.d
Date : 01-MAR-2010 17:29
Client ID: RE46-10-1262MSD
Sample Info: 1120205424411
Volume Injected (uL): 1.0
Column phase: CLP2

Instrument: eod8a.i
Operator: JROC
Column diameter: 0.25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL
 Data file : /chem/ecd8a.i/030110.b/043f4301.d
 Lab Smp Id: 1202054244 Client Smp ID: RE46-10-12662MSD
 Inj Date : 01-MAR-2010 17:29
 Operator : JAOC Inst ID: ecd8a.i
 Smp Info : |1202054244|1|
 Misc Info : |ECD82P_1S|957955|SVA|QC A|SOIL|MSD|||
 Comment :
 Method : /chem/ecd8a.i/030110.b/ECD8-F-8082-020310a.m
 Meth Date : 02-Mar-2010 08:27 jen01212 Quant Type: ESTD
 Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d
 Als bottle: 43 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 10-1967.sub
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	11.21050	% Moisture

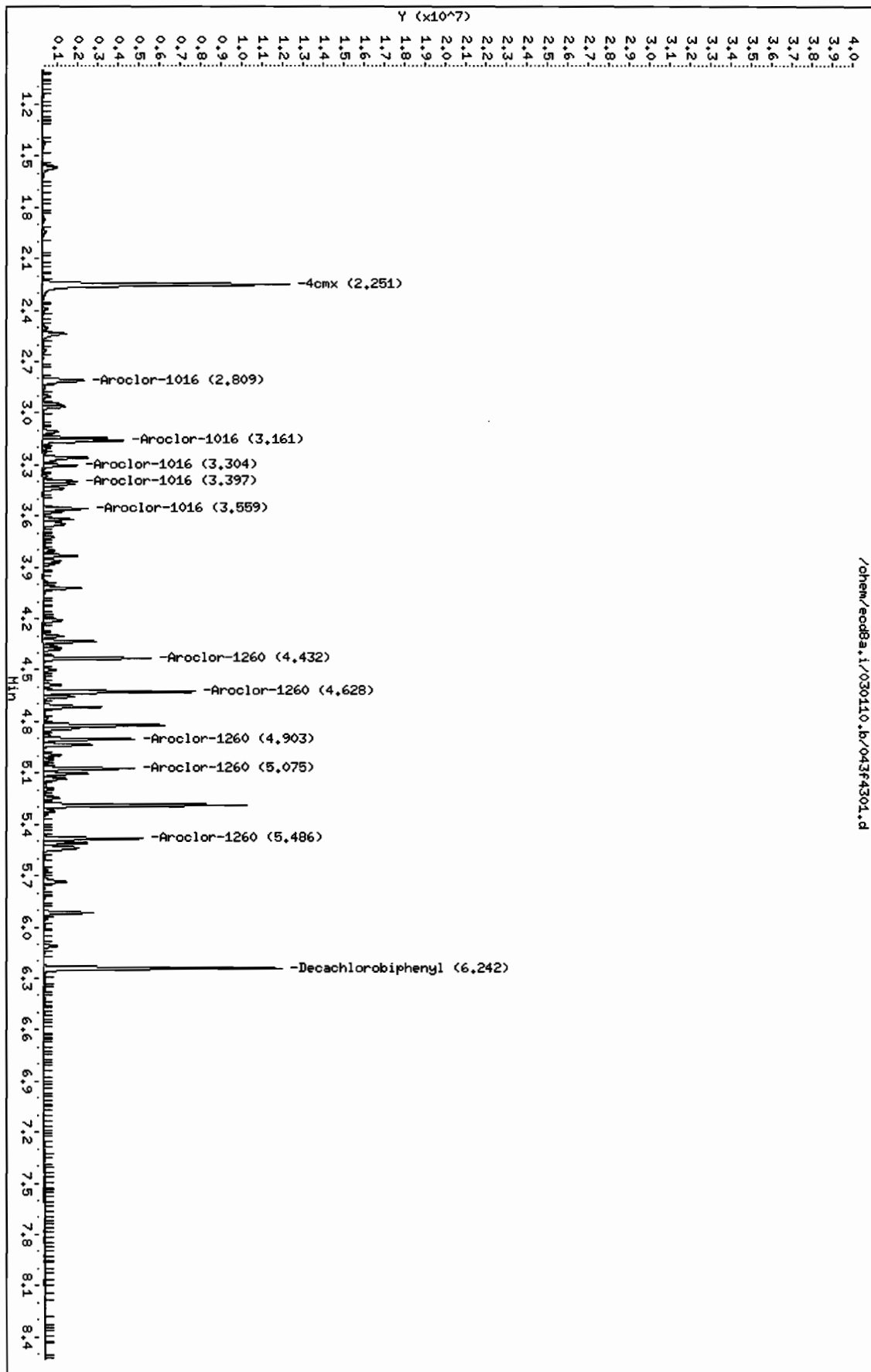
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE (ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.251	2.251	0.000	13384613 106.219	4.0	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.242	6.242	0.000	10068587 111.479	4.2	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.809	2.808	0.001	2656611 583.707	21.9	80.00-	120.00	100.00
3.161	3.160	0.001	3533858 629.914	23.6	107.79-	147.79	133.02
3.304	3.303	0.001	1452987 607.360	22.8	33.90-	73.90	54.69
3.397	3.397	0.000	1324463 618.729	23.2	26.91-	66.91	49.86
3.559	3.558	0.001	1877524 605.817	22.7	48.93-	88.93	70.67
Average of Peak Concentrations =				22.8			

CONCENTRATIONS						
			ON-COL		FINAL	
RT	EXP RT	DLT RT	RESPONSE (ug/L)		(ug/Kg)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5			
4.432	4.432	0.000	4394854	678.684	25.5 80.00- 120.00	100.00
4.628	4.627	0.001	6473636	677.991	25.4 130.79- 170.79	147.30
4.903	4.902	0.001	3731248	658.571	24.7 69.42- 109.42	84.90
5.075	5.075	0.000	3754069	635.849	23.9 72.49- 112.49	85.42
5.486	5.487	-0.001	4060767	651.932	24.5 79.29- 119.29	92.40
Average of Peak Concentrations =			24.8			

Data File: /chem/eod8a.i/030110.b/043f4301.d
Date: 01-MAR-2010 17:29
Client ID: RE46-10-12662MSD
Sample Info: 1120205424411
Volume Injected (uL): 1.0
Column phase: CLP1

Instrument: eod8a.i
Operator: JHOC
Column diameter: 0.25



Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 957952
 Analyst: Robin Hunt
 Method: SW846 3550B

Verified by: _____

Lab SOP: GL-OA-E-010 REV# 18
 Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202054241 MB	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
1202054242 LCS	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247544001	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247544002	26-FEB-2010 10:21:00	30.09	H2SO4/KMnI	1	8	1	0.03323	
247544003	26-FEB-2010 10:21:00	30.03	H2SO4/KMnI	1	8	1	0.0333	
247544004	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247545001	26-FEB-2010 10:21:00	30.02	H2SO4/KMnI	1	8	1	0.03331	
247545002	26-FEB-2010 10:21:00	30.02	H2SO4/KMnI	1	8	1	0.03331	
247545003	26-FEB-2010 10:21:00	30.02	H2SO4/KMnI	1	8	1	0.03331	
247545005	26-FEB-2010 10:21:00	30.02	H2SO4/KMnI	1	8	1	0.03331	
247550001	26-FEB-2010 10:21:00	30.04	H2SO4/KMnI	1	8	1	0.03329	
1202054243 MS (247550001)	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
1202054244 MSD (247550001)	26-FEB-2010 10:21:00	30.01	H2SO4/KMnI	1	8	1	0.03332	
247565001	26-FEB-2010 10:21:00	30.08	H2SO4/KMnI	1	8	1	0.03324	
247565002	26-FEB-2010 10:21:00	30.07	H2SO4/KMnI	1	8	1	0.03326	
247565003	26-FEB-2010 10:21:00	30.09	H2SO4/KMnI	1	8	1	0.03323	
247565004	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247565005	26-FEB-2010 10:21:00	30.05	H2SO4/KMnI	1	8	1	0.03328	
247565006	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247565007	26-FEB-2010 10:21:00	30	H2SO4/KMnI	1	8	1	0.03333	
247565008	26-FEB-2010 10:21:00	30.03	H2SO4/KMnI	1	8	1	0.0333	
247565009	26-FEB-2010 10:21:00	30.09	H2SO4/KMnI	1	8	1	0.03323	
247565010	26-FEB-2010 10:21:00	30.08	H2SO4/KMnI	1	8	1	0.03324	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202054242	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Date: 02/26/2010		
MS	1202054243	PCB Laboratory Control	WEI00210-07	1	mL	Clean up Initials: RWH		
MSD	1202054244	PCB Laboratory Control	WEI00210-07	1	mL	Verified By: JAM		
SURR	All	PEST LOW LEVEL SURROGATE 200 UG/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT	All	Acetone	100211-B1	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	All	1:1 sulfuric acid	1260695a	5	mL			
REGNT	All	Hexane	127340-B2	150	mL			
REGNT	All	5% Potassium Permanganate	B1275177-F	5	mL			
SOURC	All	SODIUM SULFATE	1274910	30	g			