

Wednesday, February 17, 2010

REQUEST NUMBER: 10-1908

Page 1 of 2

**LOS ALAMOS  
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1908

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/17/2010

TURNAROUND/REPORT DUE: 3/19/2010

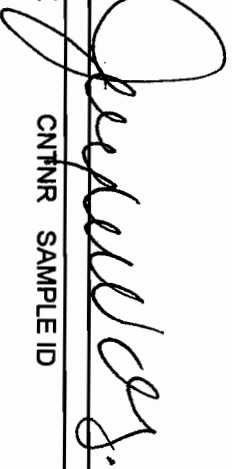
TURNAROUND REQ'D: 30 Days

**RAD SCREENING: Yes, Below Background**

**LAB REQUEST COMMENTS:**

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082		1	RE15-10-8202	R	2/12/2010	
		1	RE15-10-8203	R	2/12/2010	
		1	RE15-10-8204	R	2/12/2010	
		1	RE15-10-8205	R	2/12/2010	
		1	RE15-10-8206	R	2/12/2010	
		1	RE15-10-8207	R	2/12/2010	
		1	RE15-10-8208	R	2/12/2010	
		1	RE15-10-8209	R	2/12/2010	
		1	RE15-10-8212	R	2/12/2010	

Wednesday, February 17, 2010

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REQUEST NUMBER: 10-1908

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8321A_MOD		1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	
		1	RE15-10-8202	R	2/12/2010	
		1	RE15-10-8203	R	2/12/2010	
		1	RE15-10-8204	R	2/12/2010	
		1	RE15-10-8205	R	2/12/2010	
		1	RE15-10-8206	R	2/12/2010	
		1	RE15-10-8207	R	2/12/2010	
		1	RE15-10-8208	R	2/12/2010	
		1	RE15-10-8209	R	2/12/2010	
		1	RE15-10-8212	R	2/12/2010	
		1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	

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Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1908

LOS ALAMOS

REQUEST NUMBER: 10-1908

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

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
RE15-10-8208	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8203	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8206	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8207	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8204	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8202	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8209	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8205	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8227	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8228	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8212	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: 2503

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

SAMPLE ID: RE15-10-8202

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3	OK	
TIME COLLECTED(HH:MM)		08:35		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA	CB5	
LOCATION ID:	15-610818			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	63.5		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	65.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	YES			WATER FLOWING: YES/NO/NA	NO		
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		
1		Metals+ClO4+CN	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

## SAMPLE DESC:

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

## SAMPLE COMMENTS:

NA

## LOCATION DESC:

7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 19 dpm

Beta/Gamma = 420 dpm

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

## COLLECTED BY (PRINT)

R. Saunders

## REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/12/10 1646	RECEIVED BY (Printed Name) J. MARIN (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8203

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		09:06		SUB-MEDIA:		TUFF 1	
PRS ID: 15-007(c)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610818				FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC				FIELD PREP:		NA	
TOP DEPTH: 0		79.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		80.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	PRM 2/10 882+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice		
1		Metals+ClO4+CN	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

## SAMPLE DESC:

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

## SAMPLE COMMENTS:

NA

## LOCATION DESC:

7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 22 dpm  
Beta/Gamma = 282 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 02/12/10 1646	RECEIVED BY (Printed Name) G. MARCAY (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8204

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		OK
TIME COLLECTED(HH:MM)		09:28.5		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK	2/12/10	SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610818			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	94.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	95.0 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	PRM 2/12/10 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 gray, nonindurated, non welded, devitrified, dry, ark flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 6.5 dpm

Beta/Gamma = 257 dpm

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

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

B. Saunders

PRM 2/12/10

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/12/10 1646	RECEIVED BY (Printed Name) S. MARCZAY (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8205

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		09:55		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CRS
LOCATION ID:	15-610818			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	109.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	110.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	ARM 2/12/10 3082+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, dehydrified, dry,  
ash flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC: 7c-27

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 29 dpm  
Beta/Gamma = 258 dpm

PID  $\frac{\text{Ambient Reading}}{2/12/10} = \text{ppm}$

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) J. R. Marin	Date/Time 02/12/10 16:46	RECEIVED BY (Printed Name) S. MARCZAY (Signature) [Signature]	Date/Time 2/12/10 16:46
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8206

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		10:25		SUB-MEDIA:		TUFF 1	
PRS ID: 15-007(c)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610818				FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC				FIELD PREP:		NA	
TOP DEPTH: 0		124.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		130.0 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	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 reddish gray, moderately indurated, moderately welded, devitrified, dry, ash flow tuff.

## SAMPLE COMMENTS:

3 runs to collect enough material to sample

## LOCATION DESC:

7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5268 dpm  
Beta/Gamma = 280 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 2/12/10 1646	RECEIVED BY (Printed Name) S. MAR 22 AY (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8207

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		QBT 2
TIME COLLECTED(HH:MM)		11:46		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610818			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	137.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	140.0 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
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 reddish brown, moderately indurate, slightly welded, devitrified, in ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 59 dpm  
Beta/Gamma = 640 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/12/10	(Printed Name) J. MARIN	2/12/10
(Signature) Jon R. Marin	1646	(Signature) [Signature]	1646
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8208

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3	QBT2	QBT2
TIME COLLECTED(HH:MM)		12:25		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA	CB5	
LOCATION ID:	15-610818			FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	154.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	155.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES (NO) NA				WATER FLOWING: YES (NO) NA			
BOREHOLE DECLINATION:	-90°			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8062+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, non welded, de-teritrified, dr,  
ark flow tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

7c-27

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 32 dpm

Beta/Gamma = 275 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/12/10	(Printed Name) J. MARIN	2/12/10
(Signature) Jon R. Marin	16:46	(Signature) [Signature]	16:46
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8209

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		QBT 1
TIME COLLECTED(HH:MM)		13:15		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CB5
LOCATION ID:	15-610818			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		1
TOP DEPTH:	0	169.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	170.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	-90°	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	ARM 2/12/10 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:

slightly  
Light gray, ~~ston~~ indurated, non welded, devitrified, dry, ash flow tuff  
ARM 2/12/10

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 5.9 dpm

Beta/Gamma = 275 dpm

ARM 2/12/10  
PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

R. Samuels

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/12/10 1646	RECEIVED BY (Printed Name) S. MARCZAK (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8212

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3	QBT1	
TIME COLLECTED (HH:MM)		13:50		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA	CBS	
LOCATION ID:	UNK	15-610818		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	180.0 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		
BOREHOLE: YES/NO/NA				WATER FLOWING: 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:

7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 71 dpm

Beta/Gamma = 264 dpm

ARM 2/12/10

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) J. Marin	Date/Time 2/12/10 16:46	RECEIVED BY (Printed Name) S. MARCZAY (Signature) [Signature]	Date/Time 2/12/10 16:46
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8227

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:		OBT3	
TIME COLLECTED(HH:MM)		08:35		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK			FIELD QC TYPE:		FD	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	635 64.0 ft		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0	65.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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+CIO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-8202

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

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 19 dpm  
Beta/Gamma = 420 dpm

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

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	2/12/10	(Printed Name) S. MARCAY	2/12/10
(Signature) Larry A. Lopez	1646	(Signature) [Signature]	1646
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8228

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010	MEDIA:	QBT3		QBT 1	
TIME COLLECTED (HH:MM)		13:50	SUB-MEDIA:	TUFF 1		OK	
PRS ID:	15-007(c)	OK	SAMPLE TECH CODE:	HA		CBS	
LOCATION ID:	UNK	15-610818	FIELD QC TYPE:	FD		OK	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA			
TOP DEPTH:	0	180.0 ft	SAMPLE USAGE:	QC			
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: QC Sample of RE15-10-8212

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 71 dpm

Beta/Gamma = 264 dpm

PRM  
2/12/10  
PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

R. Saunders

J. MYA RIN

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 02/12/10 16:46	RECEIVED BY (Printed Name) S. W. R. R. R. (Signature) [Signature]	Date/Time 2/12/10 16:46
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8236

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	NA		OK
TIME COLLECTED(HH:MM)		12:10		SUB-MEDIA:	OTHER		
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610818		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	W	OK		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES/NO/NA	YES			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	1	SW-846:6850	250 ML POLY	Ice	Y	
1	1	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-8207

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha =        dpm <sup>T<sub>2m</sub></sup>  
 Beta/Gamma =        dpm <sup>2/12/10</sup>

PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$  <sup>T<sub>2m</sub> 2/12/10</sup>

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

R. Saunders

J. Marin

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/12/10 1646	RECEIVED BY (Printed Name) S. MARY (Signature) [Signature]	Date/Time 2/12/10 1646
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

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

SAMPLE ID: RE15-10-8237

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		13:30		SUB-MEDIA:	OTHER		
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610818		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	W	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	METALS-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 RE15-10-8209

SAMPLE COMMENTS: NA

LOCATION DESC: 7c-27

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = ~~\_\_\_\_\_~~ dpmBeta/Gamma = ~~\_\_\_\_\_~~ dpm

1 AM 2/12/10

PID ~~Ambient~~ ~~Reading~~ = ppm

1 AM 2/12/10

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/12/10	J. MARIN	2/12/10
(Signature) Jon R. Marin	16:46		16:46
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

## Rad Screening Data Release Form

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

RE15-10-8228  
↓  
8212  
8257  
8209  
8208  
8236  
8207  
8206  
8208  
8204  
8203  
8227  
↓  
RE15-10 8202

RE36-10-7423  
↓  
7424  
7427  
↓  
RE36-10 7428

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

.....  
The following samples do not require rad screening data for the reasons stated (list sample numbers): RE15-10-8237(FR)

Reason: Field Reinsate

.....  
Print Last Name Lopez

Signature

Larry M. Lopez

Date 02/12/10

## Rad Screening Data Release Form

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

RE15-10-8228  
↓  
8212  
8257  
8209  
8208  
8236  
8207  
8206  
8205  
8204  
8203  
8227  
↓  
RE15-10 8202

RE36-10-7423  
↓  
7424  
7427  
↓  
RE36-10 7428

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

.....

The following samples do not require rad screening data for the reasons stated (list sample numbers): RE15-10-8237(FR)

Reason: Field Rinsate

.....

Print Last Name Lopez

Signature

Larry A. Lopez

Date

02/12/10

## DATA VALIDATION COVER SHEET

5122-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-1908 VALIDATION DATE: 4/20/10 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. 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 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. All associated samples were analyzed beyond but within 2X the prescribed HT for the primary analytes. All sample results were NDs and, thus, were qualified UJ,HE9.
2. The ICAL RRF value for p-nitrotoluene was  $<0.05$  but  $\geq 0.01$ . All associated sample results were NDs and, thus, were qualified UJ,HE7b.
3. The ICV and CCV %Ds for RDX were  $>20\%$  with positive bias. All associated sample results were NDs and, thus, were not qualified. The ICV and/or CCV %Ds for m-nitrotoluene; 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene associated with all samples were  $>20\%$  but  $\leq 40\%$  with negative bias. All associated sample results were NDs and, thus, were qualified UJ,HE7c.
4. The LCS %R for tetryl was  $<$  the laboratory LAL but  $\geq 10\%$ . All associated sample results were NDs and, thus, were qualified UJ,HE12a.
5. The MS and MSD %Rs for TATB were  $>$  the laboratory UAL. All associated sample results were NDs and, thus were not qualified.
6. 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.

Reviewed by: Mary Donovan


Level: I

Date: 04/21/10


VALIDATOR'S SIGNATURE:

A handwritten signature of Eyda Hergenreder in cursive script.


DATE: 4/20/10

DATA VALIDATION COVER SHEET	
<b>5122-1</b>  <b>Data Validation Cover Sheet</b>	Records Use only   ..... ECL 3165 .....
Form 5122-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project




LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	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	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	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 $\leq 5$ 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 $\leq 5$ 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	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	Records Use only  

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

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

Records Use only



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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412027a

Date Analyzed: 13-APR-10 04:27

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100145.wiff

Date Analyzed: 12-MAR-10 05:12

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8203

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343002

Sample Amount 2

Moisture: 1.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412028a

Date Analyzed: 13-APR-10 04:56

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8203

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343002

Sample Amount 2

Moisture: 1.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100146.wiff

Date Analyzed: 12-MAR-10 05:28

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412029a

Date Analyzed: 13-APR-10 05:26

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100147.wiff

Date Analyzed: 12-MAR-10 05:44

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412030a

Date Analyzed: 13-APR-10 05:55

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100148.wiff

Date Analyzed: 12-MAR-10 05:59

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrx: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412031a

Date Analyzed: 13-APR-10 06:25

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100149.wiff

Date Analyzed: 12-MAR-10 06:15

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412032a

Date Analyzed: 13-APR-10 06:54

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene UJ,HE9	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100150.wiff

Date Analyzed: 12-MAR-10 06:31

Units: ug/kg

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

\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

EH  
4/20/10



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412033a

Date Analyzed: 13-APR-10 07:24

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene UJ.HE9	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100151.wiff

Date Analyzed: 12-MAR-10 06:47

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412034a

Date Analyzed: 13-APR-10 07:53

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJ,HE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100152.wiff

Date Analyzed: 12-MAR-10 07:02

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene UJ,HE7c	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene UJ,HE7c	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: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412035a

Date Analyzed: 13-APR-10 08:23

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene UJHE9	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100153.wiff

Date Analyzed: 12-MAR-10 07:18

Units: ug/kg

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8228

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343010

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412039a

Date Analyzed: 13-APR-10 10:21

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8228

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343010

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100157.wiff

Date Analyzed: 12-MAR-10 08:21

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8212

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343011

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412040a

Date Analyzed: 13-APR-10 10:50

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene <u>UJHE9</u>	500	HU
121-14-2	2,4-Dinitrotoluene	500	HU
121-82-4	RDX	500	HU
19406-51-0	4-Amino-2,6-dinitrotoluene	500	HU
2691-41-0	HMX	500	HU
35572-78-2	2-Amino-4,6-dinitrotoluene	500	HU
479-45-8	Tetryl	500	HU
606-20-2	2,6-Dinitrotoluene	500	HU
78-11-5	PETN	1000	HU
88-72-2	o-Nitrotoluene	500	HU
98-95-3	Nitrobenzene	500	HU
99-08-1	m-Nitrotoluene	500	HU
99-35-4	1,3,5-Trinitrobenzene	500	HU
99-65-0	m-Dinitrobenzene	500	HU
99-99-0	p-Nitrotoluene	500	HU

\*Concentration =

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

EH  
4/20/10

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8212

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343011

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100158.wiff

Date Analyzed: 12-MAR-10 08:37

Units: ug/kg

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

\*Concentration =

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

EH  
4/20/10

## DATA VALIDATION COVER SHEET

5116-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-1908 VALIDATION DATE: 4/20/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: 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): <u>PCBs</u> |  |   |  |

## Section II. Completeness Check

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

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


1. 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 DonovanLevel: IDate: 04/21/10


VALIDATOR'S SIGNATURE: \_\_\_\_\_

A handwritten signature of Eyda Hergenreder in blue ink.


DATE: 4/20/10

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


Yes   No   N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input 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	
<b>5116-2</b>  <b>Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist</b>	Records Use only  

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

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

Yes   No   N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but ≥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	
<b>5116-2</b>  <b>Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist</b>	Records Use only _____  

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

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343006

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.09 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 2  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8202  
Batch ID: 957590  
Run Date: 02/26/2010 12:02  
Prep Date: 02/25/2010 21:15  
Data File: 031f3101.d  
031b3101.d

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

EH  
4/20/10



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343002

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.15 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 1.1  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.35	ug/kg	1.12	3.35	1
11104-28-2	Aroclor-1221	U	3.35	ug/kg	1.12	3.35	1
11141-16-5	Aroclor-1232	U	3.35	ug/kg	1.12	3.35	1
53469-21-9	Aroclor-1242	U	3.35	ug/kg	1.12	3.35	1
12672-29-6	Aroclor-1248	U	3.35	ug/kg	1.12	3.35	1
11097-69-1	Aroclor-1254	U	3.35	ug/kg	1.12	3.35	1
11096-82-5	Aroclor-1260	U	3.35	ug/kg	1.12	3.35	1

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343005

Client ID: RE15-10-8204  
Batch ID: 957590  
Run Date: 02/26/2010 11:50  
Prep Date: 02/25/2010 21:15  
Data File: 030f3001.d  
030b3001.d

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Allquot: 30.09 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 1.8  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Paramname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	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

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343008

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8AJ  
Analyst: JAOC  
Aliquot: 30.07 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.	Parname	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

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343003

Client ID: RE15-10-8206  
Batch ID: 957590  
Run Date: 02/26/2010 11:25  
Prep Date: 02/25/2010 21:15  
Data File: 028f2801.d  
028b2801.d

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.01 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

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343004

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8AJ  
Analyst: JAOC  
Aliquot: 30.19 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 2.4  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	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

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343001

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8AJ  
Analyst: JAOC  
Aliquot: 30.03 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 3.1  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.44	ug/kg	1.14	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.14	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.14	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.14	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.14	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.14	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.14	3.44	1

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343007

Client ID: RE15-10-8209  
Batch ID: 957590  
Run Date: 02/26/2010 12:39  
Prep Date: 02/25/2010 21:15  
Data File: 034f3401.d  
034b3401.d

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.14 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	3.38	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

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343011

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.19 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 1.5  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

EH  
4/20/10



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343009

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.02 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.	Parname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.13	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.13	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.13	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.13	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.13	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.13	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.13	3.41	1

EH  
4/20/10

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343010

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8AJ  
Analyst: JAOC  
Aliquot: 30.01 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 1.6  
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	3.39	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

EH  
4/20/10

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1908

LOS ALAMOS

REQUEST NUMBER: 10-1908

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,  
Charleston, SC,

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2473437.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8208	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8203	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8206	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8207	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8204	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8202	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8209	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8205	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8227	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8228	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8212	1	AMBER GLASS	8082+NMED-HEXP	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

*Geoffrey S* 2/17/10 1400  
Printed Name Signature

*Greg Tyler* 2-18-10 0845  
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

Wednesday, February 17, 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: 10-1908

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

**SHIP DATE: 2/17/2010**

**TURNAROUND/REPORT DUE: 3/19/2010**

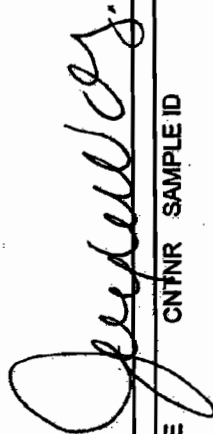
**TURNAROUND REQ'D: 30 Days**

**RAD SCREENING: Yes, Below Background**

**LAB REQUEST COMMENTS:**

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CN/PNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:8082						
1	RE15-10-8202	1	RE15-10-8202	R	2/12/2010	
1	RE15-10-8203	1	RE15-10-8203	R	2/12/2010	
1	RE15-10-8204	1	RE15-10-8204	R	2/12/2010	
1	RE15-10-8205	1	RE15-10-8205	R	2/12/2010	
1	RE15-10-8206	1	RE15-10-8206	R	2/12/2010	
1	RE15-10-8207	1	RE15-10-8207	R	2/12/2010	
1	RE15-10-8208	1	RE15-10-8208	R	2/12/2010	
1	RE15-10-8209	1	RE15-10-8209	R	2/12/2010	
1	RE15-10-8212	1	RE15-10-8212	R	2/12/2010	

REQUEST NUMBER: 10-1908

Wednesday, February 17, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	
	SW-846:8321A_MOD	1	RE15-10-8202	R	2/12/2010	
		1	RE15-10-8203	R	2/12/2010	
		1	RE15-10-8204	R	2/12/2010	
		1	RE15-10-8205	R	2/12/2010	
		1	RE15-10-8206	R	2/12/2010	
		1	RE15-10-8207	R	2/12/2010	
		1	RE15-10-8208	R	2/12/2010	
		1	RE15-10-8209	R	2/12/2010	
		1	RE15-10-8212	R	2/12/2010	
		1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1908



February 22, 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: 247343  
SDG: 10-1908

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 18, 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: 10-1908  
Enclosures

**Los Alamos National Laboratory (72733-001-09)**  
**LANL ER Project**  
**Work Order #: 247343**  
**SDG: 10-1908**

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# Case Narrative

**Case Narrative for  
Los Alamos National Laboratory (72733-001-09)  
LANL ER Project  
Workorder #: 247343  
SDG # : 10-1908**

**February 22, 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 18, 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:


<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
247343001	RE15-10-8208
247343002	RE15-10-8203
247343003	RE15-10-8206
247343004	RE15-10-8207
247343005	RE15-10-8204
247343006	RE15-10-8202
247343007	RE15-10-8209
247343008	RE15-10-8205
247343009	RE15-10-8227
247343010	RE15-10-8228
247343011	RE15-10-8212

**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.

A handwritten signature in black ink, appearing to read "for Davis", written over the printed name.

Valerie Davis

Project Manager

**List of current GEL Certifications as of 22 February 2010**

<b>State</b>	<b>Certification</b>
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**

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1908

LOS ALAMOS

REQUEST NUMBER: 10-1908

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247343%.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8208	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8203	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8206	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8207	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8204	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8202	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8209	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8205	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8227	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8228	1	AMBER GLASS	8082+NMED-HEXP	Ice	R
RE15-10-8212	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

Wednesday, February 17, 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:10-1908

Per Agreement Number:126310011

**Project Cost Code: MR3A05529E00**

**Please analyse the enclosed samples according to the schedule indicated:**

SHIP DATE: 2/17/2010

**TURNAROUND/REPORT DUE: 3/19/2010**

**TURNAROUND REQ'D: 30 Days**

## RAD SCREENING: Yes, Below Background

**LAB REQUEST COMMENTS:**

**LANL ER SMO CONTACT:**

**Signature:**

*Frederick*

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8202	R	2/12/2010	
		1	RE15-10-8203	R	2/12/2010	
		1	RE15-10-8204	R	2/12/2010	
		1	RE15-10-8205	R	2/12/2010	
		1	RE15-10-8206	R	2/12/2010	
		1	RE15-10-8207	R	2/12/2010	
		1	RE15-10-8208	R	2/12/2010	
		1	RE15-10-8209	R	2/12/2010	
		1	RE15-10-8212	R	2/12/2010	

Wednesday, February 17, 2010

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REQUEST NUMBER: 10-1908

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	
	SW-846:8321A_MOD	1	RE15-10-8202	R	2/12/2010	
		1	RE15-10-8203	R	2/12/2010	
		1	RE15-10-8204	R	2/12/2010	
		1	RE15-10-8205	R	2/12/2010	
		1	RE15-10-8206	R	2/12/2010	
		1	RE15-10-8207	R	2/12/2010	
		1	RE15-10-8208	R	2/12/2010	
		1	RE15-10-8209	R	2/12/2010	
		1	RE15-10-8212	R	2/12/2010	
		1	RE15-10-8227	R	2/12/2010	
		1	RE15-10-8228	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1908





Laboratories LLC

## SAMPLE RECEIPT &amp; REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-1908		
Received By: Greg Tyler			Date Received: 2/18/10		
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.		
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm		
Classified Radioactive II by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken    damaged container    leaking container    other (describe)
2	Samples requiring cold preservation within $0 \leq 6$ deg. C?	X			Preservation Method: ice bags    blue ice    dry ice    none    other 1,2    10C
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: <b>No time on Chain of Custody.</b>
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

## Comments:

## Fed Ex Tracking Numbers:

7209 7850 1047 1C  
 7209 7850 1014 2C  
 7209 7850 1036 2C  
 7209 7850 1025 2C  
 7209 7850 0990 10C  
 7209 7850 1003 10C

Page 10 of 10



ORIGIN ID: SAFA (505) 685-9989  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DRU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 17FEB10  
ACTNGT: 67.0 LB MAN  
CAD: 0014175/CAFE2450

BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 68010AMR2A0515BYDO

10°

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



FedEx  
Express



J08200811302223

2 of 3  
NPS# 7209 7850 0990  
0263

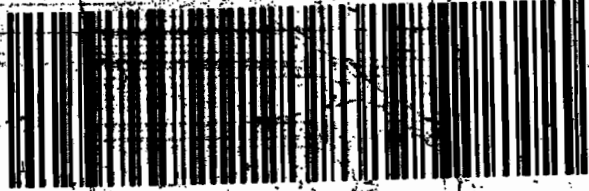
THU - 18FEB A1  
PRIORITY OVERNIGHT

Matr# 7209 7850 0989 0201

29407  
SC-US  
CHS

XX CHSA

Part # 150148-434 NRIT V3 09-08



ORIGIN ID: SAFA (505) 685-9989  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DRU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 17FEB10  
ACTNGT: 42.0 LB MAN  
CAD: 0014175/CAFE2450

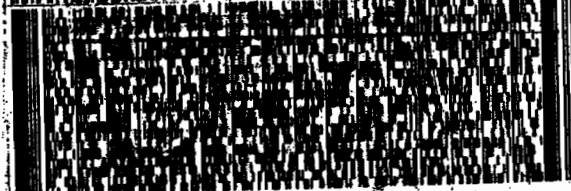
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 68010AMR2A0515BYDO

10°

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



FedEx  
Express



J08200811302223

3 of 3  
NPS# 7209 7850 1003  
0263

THU - 18FEB A1  
PRIORITY OVERNIGHT

Matr# 7209 7850 0989 0201

29407  
SC-US  
CHS

XX CHSA

# **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 10-1908**

**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: 955063

Prep Batch Number: 955062

**Sample Analysis**

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

<b>Sample ID</b>	<b>Client ID</b>
247343001	RE15-10-8208
247343002	RE15-10-8203
247343003	RE15-10-8206
247343004	RE15-10-8207
247343005	RE15-10-8204
247343006	RE15-10-8202
247343007	RE15-10-8209
247343008	RE15-10-8205
247343009	RE15-10-8227
247343010	RE15-10-8228
247343011	RE15-10-8212
1202047525	Method Blank (MB)
1202047526	Laboratory Control Sample (LCS)
1202047527	247332002(RE15-10-8346) Matrix Spike (MS)
1202047528	247332002(RE15-10-8346) Matrix Spike Duplicate (MSD)

**Preparation/Analytical Method Verification**

**SOP Reference**

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

**Primary Analyte Analysis**

**Calibration Information**

**Initial Calibration**

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

**Calibration Verification Standard Requirements**

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

**Calibration Blank Requirements**

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

**CRI Requirements**

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

**Quality Control (QC) Information****Method Blank (MB) Statement**

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

**Surrogate Recoveries**

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

**Laboratory Control Sample (LCS) Recovery**

The LCS recovered Tetryl at 20.4%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported. Please see data exception report 817078.

**QC Sample Designation**

Client sample 247332002 (RE15-10-8346) from SDG 10-1905 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

**Matrix Spike (MS) Recovery Statement**

The MS spike recoveries were within the established acceptance limits.

**Matrix Spike Duplicate (MSD) Recovery Statement**

The MSD spike recoveries were within the established acceptance limits.

**MS/MSD Relative Percent Difference (RPD) Statement**

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

**Internal Standard (ISTD) Acceptance**

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



## **Technical Information**

### **Holding Time Specifications**

Samples 247343001(RE15-10-8208), 247343002(RE15-10-8203), 247343003(RE15-10-8206), 247343004(RE15-10-8207), 247343005(RE15-10-8204), 247343006(RE15-10-8202), 247343007(RE15-10-8209), 247343008(RE15-10-8205), 247343009(RE15-10-8227), 247343010(RE15-10-8228) and 247343011(RE15-10-8212) were analyzed out of holding for the Primary analyte analysis. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported. Please see data exception report 817078. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

### **Preparation/Analytical Method Verification**

All procedures were performed as stated in the SOP.

### **Sample Dilutions**

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

### **Sample Re-extraction/Re-analysis**

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

### **Secondary Analyte Analysis**

## **Calibration Information**

### **Initial Calibration**

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

### **Calibration Verification Standard Requirements**

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

### **Calibration Blank Requirements**

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

### **CRI Requirements**

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

## **Quality Control (QC) Information**

### **Method Blank (MB) Statement**

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

### **Surrogate Recoveries**

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

**Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries were within the established acceptance limits.

**QC Sample Designation**

Client sample 247332002 (RE15-10-8346) from SDG 10-1905 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 recovered TATB at 206%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 817078.

**Matrix Spike Duplicate (MSD) Recovery Statement**

The MSD recovered TATB at 177%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported. Please see data exception report 817078.

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

**Preparation/Analytical Method Verification**

All procedures were performed as stated in the SOP.

**Sample Dilutions**

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

**Sample Re-extraction/Re-analysis**

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

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

Data exception report 817078 was generated for this SDG.

The LCS recovered Tetraol at 20.4%. The recovery limits are 51-112%. Since both the MS and MSD met acceptance limits for Tetraol, the data are reported.

The MS recovered TATB at 206%. The MSD recovered TATB at 177%. The recovery limits are 29-155%. Since the LCS met acceptance limits for TATB, the noted exception is attributed to vagaries in the extraction process. The data are reported.

The internal standard responses were outside of the acceptance criteria in QC samples 1202047527 (RE15-10-8346MS) and 1202047528 (RE15-10-8346MSD). Please see the Form 8 in the data package for the exact recoveries. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. Sample re-analysis was not required. The data are reported.

Samples 247343001(RE15-10-8208), 247343002(RE15-10-8203), 247343003(RE15-10-8206), 247343004(RE15-10-8207), 247343005(RE15-10-8204), 247343006(RE15-10-8202), 247343007(RE15-10-8209), 247343008(RE15-10-8205), 247343009(RE15-10-8227), 247343010(RE15-10-8228) and 247343011(RE15-10-8212) were analyzed out of holding for the Primary analyte analysis. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported.

#### **Manual Integrations**

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

#### **Flagging Convention**

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

#### **Additional Comments**

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

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

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

#### **System Configuration**

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

### **Chromatographic Columns**

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

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

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

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

### **Certification Statement**

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

### **Review Validation:**

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

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

Reviewer: *Robert N. Mauer* Date: 04/15/10

# SAMPLE DATA SUMMARY

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412027a

Date Analyzed: 13-APR-10 04:27

Units: ug/kg

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

\*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: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100145.wiff

Date Analyzed: 12-MAR-10 05:12

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: RE15-10-8203

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343002

Sample Amount 2

Moisture: 1.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412028a

Date Analyzed: 13-APR-10 04:56

Units: ug/kg

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

\*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: RE15-10-8203

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343002

Sample Amount 2

Moisture: 1.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100146.wiff

Date Analyzed: 12-MAR-10 05:28

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: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412029a

Date Analyzed: 13-APR-10 05:26

Units: ug/kg

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

\*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: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100147.wiff

Date Analyzed: 12-MAR-10 05:44

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: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412030a

Date Analyzed: 13-APR-10 05:55

Units: ug/kg

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

\*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: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100148.wiff

Date Analyzed: 12-MAR-10 05:59

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412031a

Date Analyzed: 13-APR-10 06:25

Units: ug/kg

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

\*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: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100149.wiff

Date Analyzed: 12-MAR-10 06:15

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: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412032a

Date Analyzed: 13-APR-10 06:54

Units: ug/kg

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

\*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: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100150.wiff

Date Analyzed: 12-MAR-10 06:31

Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412033a

Date Analyzed: 13-APR-10 07:24

Units: ug/kg

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

\*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: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100151.wiff

Date Analyzed: 12-MAR-10 06:47

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: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412034a

Date Analyzed: 13-APR-10 07:53

Units: ug/kg

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

\*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: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100152.wiff

Date Analyzed: 12-MAR-10 07:02

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: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412035a

Date Analyzed: 13-APR-10 08:23

Units: ug/kg

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

\*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: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100153.wiff

Date Analyzed: 12-MAR-10 07:18

Units: ug/kg

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

\*Concentration =

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

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8228

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343010

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412039a

Date Analyzed: 13-APR-10 10:21

Units: ug/kg

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

\*Concentration =

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



## High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLCClient Sample ID: RE15-10-8228Lab Code: GELGEL Job No (SDG) 10-1908Matrix: SOILGEL Sample ID: 247343010Sample Amount 2Moisture: 1.6Amount Units gDate Received: 18-FEB-10Extraction Type SonicationExtraction Batch ID: 955062Concentrated Extract Volume (mL) 10Date Extracted: 24-FEB-10Dilution Factor: 2Injection Volume (uL): 50GEL data file: EXS03100157.wiffDate Analyzed: 12-MAR-10 08:21Units: ug/kg

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

\*Concentration =

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

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8212

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343011

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412040a

Date Analyzed: 13-APR-10 10:50

Units: ug/kg

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

\*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:** RE15-10-8212

**Lab Code:** GEL

**GEL Job No (SDG)** 10-1908

**Matrix:** SOIL

**GEL Sample ID:** 247343011

**Sample Amount** 2

**Moisture:** 1.5

**Amount Units** g

**Date Received:** 18-FEB-10

**Extraction Type** Sonication

**Extraction Batch ID:** 955062

**Concentrated Extract Volume (mL)** 10

**Date Extracted:** 24-FEB-10

**Dilution Factor:** 2

**Injection Volume (uL):** 50

**GEL data file:** EXS03100158.wiff

**Date Analyzed:** 12-MAR-10 08:37

**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):** 10-1908

**Lab Code:** GEL

**HPLC Column:** Phenomenex Ultracarb 5u ODS(20)

Lab Sample ID	Client Sample ID	DNT	QC Limits	Flg
247343001	RE15-10-8208	93.1	70 - 144	
247343001	RE15-10-8208	107	70 - 144	
247343002	RE15-10-8203	98.9	70 - 144	
247343002	RE15-10-8203	113	70 - 144	
247343003	RE15-10-8206	117	70 - 144	
247343003	RE15-10-8206	110	70 - 144	
247343004	RE15-10-8207	95.3	70 - 144	
247343004	RE15-10-8207	112	70 - 144	
247343005	RE15-10-8204	97.6	70 - 144	
247343005	RE15-10-8204	112	70 - 144	
247343006	RE15-10-8202	95.1	70 - 144	
247343006	RE15-10-8202	116	70 - 144	
247343007	RE15-10-8209	97.8	70 - 144	
247343007	RE15-10-8209	118	70 - 144	
247343008	RE15-10-8205	97.5	70 - 144	
247343008	RE15-10-8205	110	70 - 144	
247343009	RE15-10-8227	99.2	70 - 144	
247343009	RE15-10-8227	115	70 - 144	
247343010	RE15-10-8228	106	70 - 144	
247343010	RE15-10-8228	121	70 - 144	
247343011	RE15-10-8212	95.8	70 - 144	
247343011	RE15-10-8212	120	70 - 144	
1202047525	MB for batch 955062	97.5	70 - 144	
1202047525	MB for batch 955062	112	70 - 144	
1202047526	LCS for batch 955062	99.6	70 - 144	
1202047526	LCS for batch 955062	106	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)** 10-1908

**Extract Batch Code:** 955062

**Date Extracted:** 24-FEB-10

**GEL LCS ID:** 1202047526

**GEL LCSDUP ID:**

**Analysis Date/Time:** 12-APR-10 22:04

**DUP Analysis Date/Time:**

**Reporting Units:** ug/kg

**QC Type:** LCS/LCSD

Compound	Spike Added	LCS Conc	LCS Rec #	LCSD Conc	LCSD Rec #	RPD #	RPD	Recovery Limits
1,3,5-Trinitrobenzene	5000	3890	77.7					69 – 126
2,4,6-Trinitrotoluene	5000	4600	92					73 – 149
2,4-Dinitrotoluene	5000	5190	104					87 – 137
2,6-Dinitrotoluene	5000	4910	98.2					89 – 120
2-Amino-4,6-dinitrotoluene	5000	4980	99.6					90 – 130
4-Amino-2,6-dinitrotoluene	5000	4810	96.3					84 – 130
HMX	5000	4460	89.2					58 – 138
Nitrobenzene	5000	5130	103					71 – 122
PETN	5000	4690	93.8					64 – 137
RDX	5000	5400	108					81 – 137
Tetryl	5000	1020	20.4 *					51 – 112
m-Dinitrobenzene	5000	5000	99.9					83 – 122
m-Nitrotoluene	5000	4440	88.8					73 – 118
o-Nitrotoluene	5000	4400	87.9					72 – 119
p-Nitrotoluene	5000	4970	99.4					67 – 131

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

\* Values outside of QC limits

**3B**  
**High Explosives LCS/LCS Duplicate Summary**

**Lab Name:** GEL Laboratories LLC

**Client ID:** LCS

**Lab Code:** GEL

**GEL Job No (SDG)** 10-1908

**Extract Batch Code:** 955062

**Date Extracted:** 24-FEB-10

**GEL LCS ID:** 1202047526

**GEL LCSDUP ID:**

**Analysis Date/Time:** 12-MAR-10 01:48

**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	5010	100					52 - 114
2,6-Diamino-4-nitrotoluene	5000	5310	106					64 - 122
3,5-Dinitroaniline	5000	5260	105					70 - 127
tris(o-cresyl) phosphate	5000	4740	94.8					84 - 119
TATB	5000	4960	99.2					28 - 162

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

\* Values outside of QC limits

3  
High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1908

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047527

GEL SpikeDup ID: 1202047528

Analysis Date/Time: 12-APR-10 23:02

MSD Analysis Date/Time:

Reporting Units: ug/kg

QC Type: MS/MSD

Compound	Spike Added	Sample Conc	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Rec Limits
1,3,5-Trinitrobenzene	5000	0	3790	75.9	4770	95.3	22.8	30	50 – 140
2,4,6-Trinitrotoluene	5000	0	4510	90.2	4640	92.8	2.81	30	76 – 144
2,4-Dinitrotoluene	5000	0	5400	108	5300	106	1.91	30	86 – 135
2,6-Dinitrotoluene	5000	0	4990	99.7	4840	96.9	2.86	30	90 – 118
2-Amino-4,6-dinitrotoluene	5000	0	5180	104	4790	95.8	7.78	30	85 – 137
4-Amino-2,6-dinitrotoluene	5000	0	4610	92.2	4760	95.2	3.18	30	72 – 143
HMX	5000	0	3730	74.7	4480	89.6	18.1	30	51 – 144
Nitrobenzene	5000	0	4060	81.1	4990	99.8	20.7	30	70 – 122
PETN	5000	0	4980	99.6	4150	83	18.1	30	60 – 140
RDX	5000	0	4300	86.1	5520	110	24.8	30	59 – 152
Tetryl	5000	0	2380	47.7	3110	62.2	26.5	30	36 – 124
m-Dinitrobenzene	5000	0	4680	93.7	4650	93	7.53	30	85 – 118
m-Nitrotoluene	5000	0	4330	86.6	4060	81.1	6.5	30	70 – 120
o-Nitrotoluene	5000	0	4440	88.8	3850	77	14.3	30	69 – 123
p-Nitrotoluene	5000	0	4860	97.1	4070	81.5	17.5	30	65 – 133

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



3  
High Explosives MS/MSD Summary

Lab Name: GEL Laboratories LLC

Client ID: RE15-10-8346

Lab Code: GEL

GEL Job No (SDG) 10-1908

Extract Batch Code: 955062

Date Extracted: 24-FEB-10

GEL Spike ID: 1202047527

GEL SpikeDup ID: 1202047528

Analysis Date/Time: 12-MAR-10 02:20

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	4500	90	4840	96.8	7.28	26	34 - 135
2,6-Diamino-4-nitrotoluene	5000	0	4760	95.2	5000	100	4.92	30	55 - 130
3,5-Dinitroaniline	5000	0	5110	102	5280	106	3.27	30	73 - 129
tris(o-cresyl) phosphate	5000	0	4720	94.4	4830	96.6	2.3	30	72 - 127
TATB	5000	0	10300	206 *	8850	177 *	15.1	30	29 - 155

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

4  
**Explosives Initial Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK01

**Analysis Date:** 12-APR-10 15:40

**GEL Data File:** EXP0412001a

**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	440.355
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	475.584
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

Printed: Tue Apr 13 11:14:26 2010, Page 1 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Method: C:\MASSLYNX\New\_Exp.PRO\MethDB\041210expa.mdb, Time: Tue Apr 13 09:03:30 2010

Calibration: Untitled, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412001a

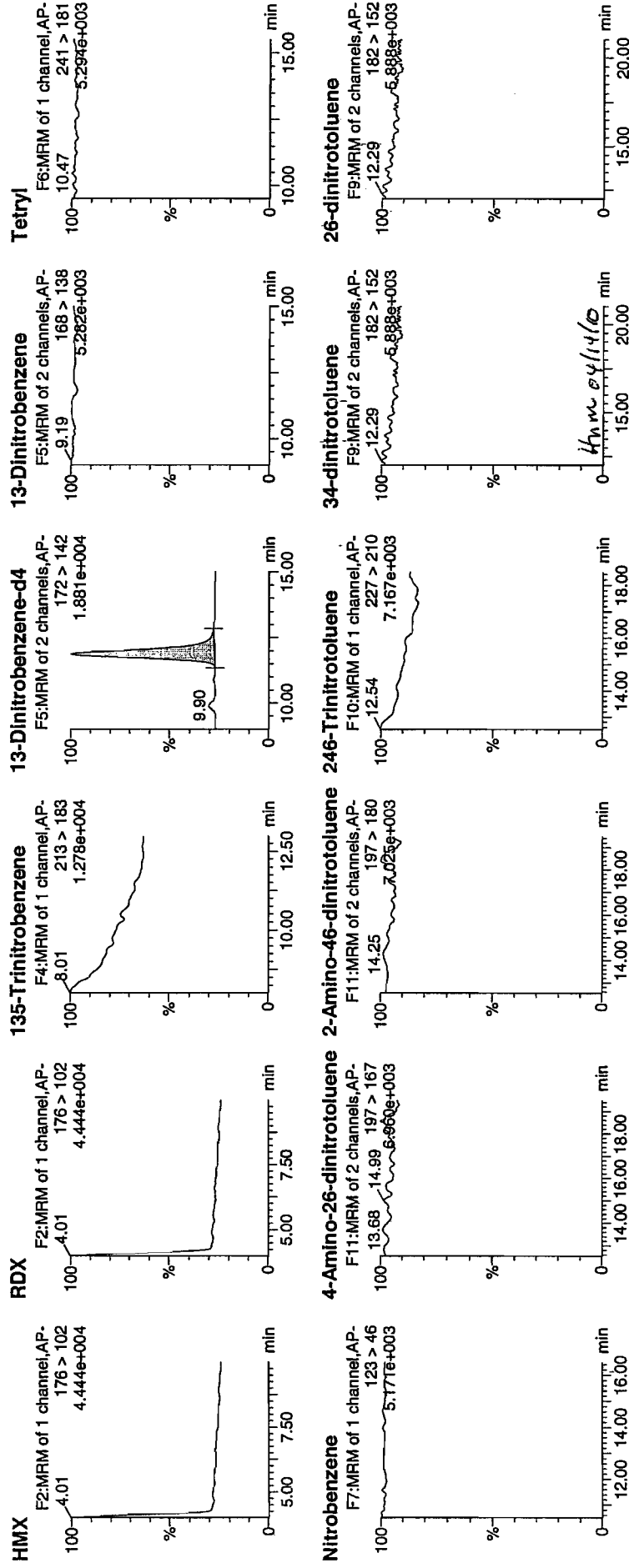
Date: 12-Apr-2010

Time: 15:40:40

ID: XIBLK01

Val: 1:1.A

11/13/10

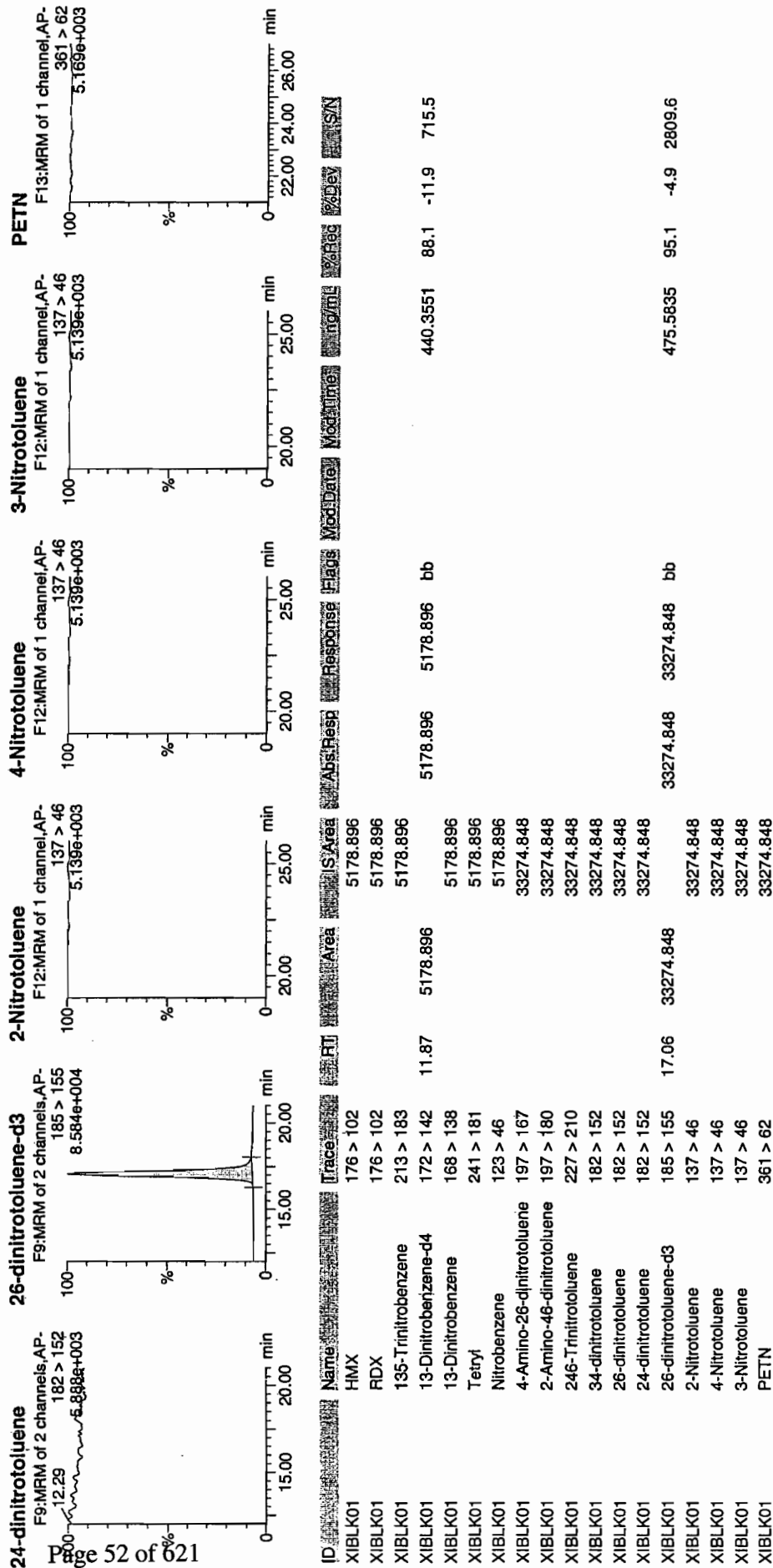


# Quantity Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 2 of 77

Dataset: C:\MASSLYNX\New\_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



## Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1908Lab Code: GELLab Sample ID: XIBLK01Analysis Date: 12-APR-10 16:10GEL Data File: EXP0412002aInstrument ID: LCMSMSColumn: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	473.054
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	498.176
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: Tue Apr 13 11:14:26 2010, Page 3 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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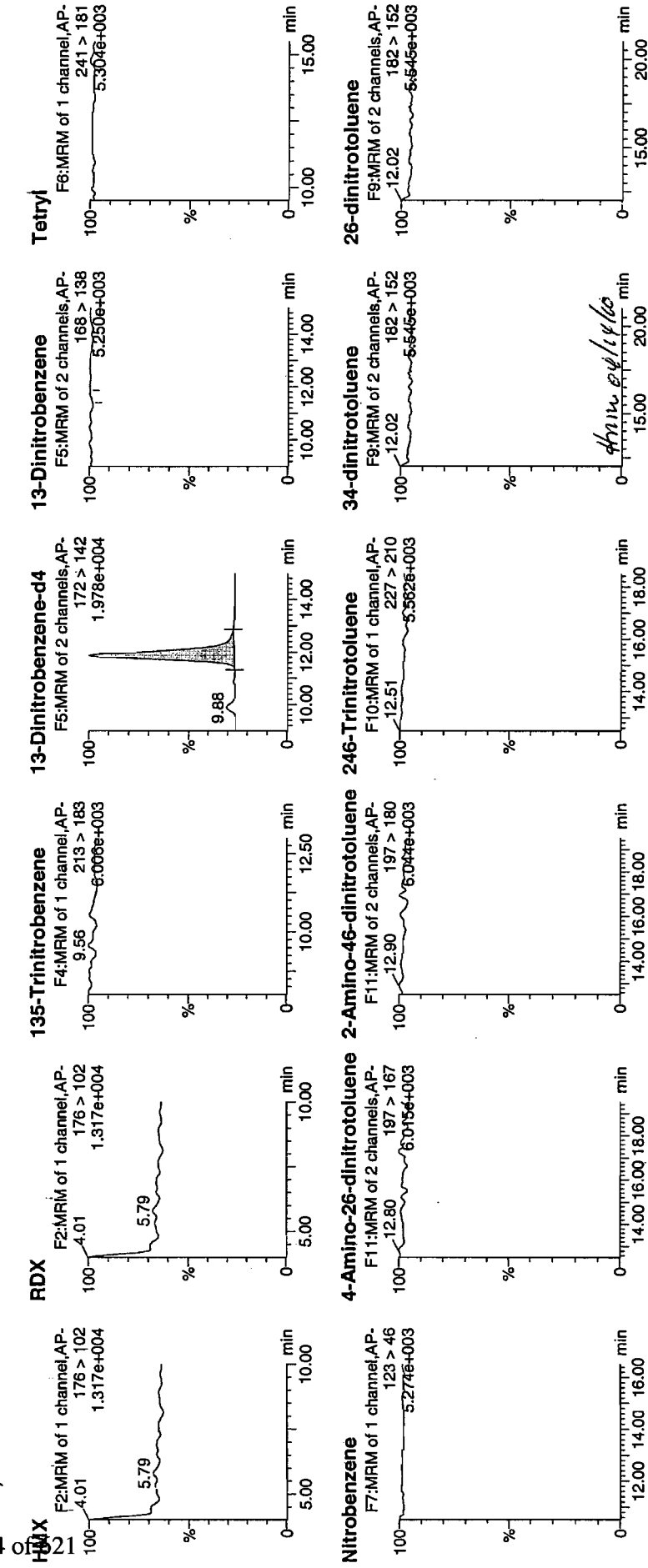
Date: 12-Apr-2010

Time: 16:10:12

ID: XIBLK01

Vol: 1:1,A

pur  
4/13/10

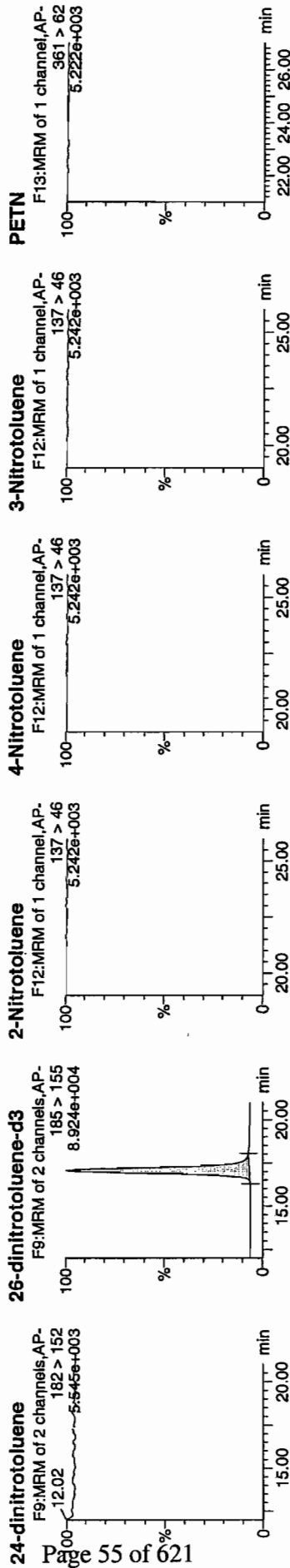


# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 4 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc/mL	% Rec	% Dev	S/N
XIBLK01	HMX	176 > 102		5563.454	5563.454									
XIBLK01	RDX	176 > 102		5563.454	5563.454									
XIBLK01	135-Trinitrobenzene	213 > 183		5563.454	5563.454									
XIBLK01	13-Dinitrobenzene-d4	172 > 142	11.87	5563.454	5563.454	5563.454	5563.454	bb	MM-	13-Apr-10	10:59:24	473.0536	94.6	-5.4
XIBLK01	13-Dinitrobenzene	168 > 138		5563.454	5563.454									108.0
XIBLK01	Tetryl	241 > 181		5563.454	5563.454									
XIBLK01	Nitrobenzene	123 > 46		34855.578	34855.578									
XIBLK01	4-Amino-26-dinitrotoluene	197 > 167		34855.578	34855.578									
XIBLK01	2-Amino-46-dinitrotoluene	197 > 180		34855.578	34855.578									
XIBLK01	246-Trinitrotoluene	227 > 210		34855.578	34855.578									
XIBLK01	34-dinitrotoluene	182 > 152		34855.578	34855.578									
XIBLK01	26-dinitrotoluene	182 > 152		34855.578	34855.578									
XIBLK01	24-dinitrotoluene	182 > 152		34855.578	34855.578									
XIBLK01	26-dinitrotoluene-d3	185 > 155	17.05	34855.578	34855.578	34855.578	34855.578	bb				498.1763	99.6	-0.4
XIBLK01	2-Nitrotoluene	137 > 46		34855.578	34855.578									2742.7
XIBLK01	4-Nitrotoluene	137 > 46		34855.578	34855.578									
XIBLK01	3-Nitrotoluene	137 > 46		34855.578	34855.578									
XIBLK01	PETN	361 > 62		34855.578	34855.578									

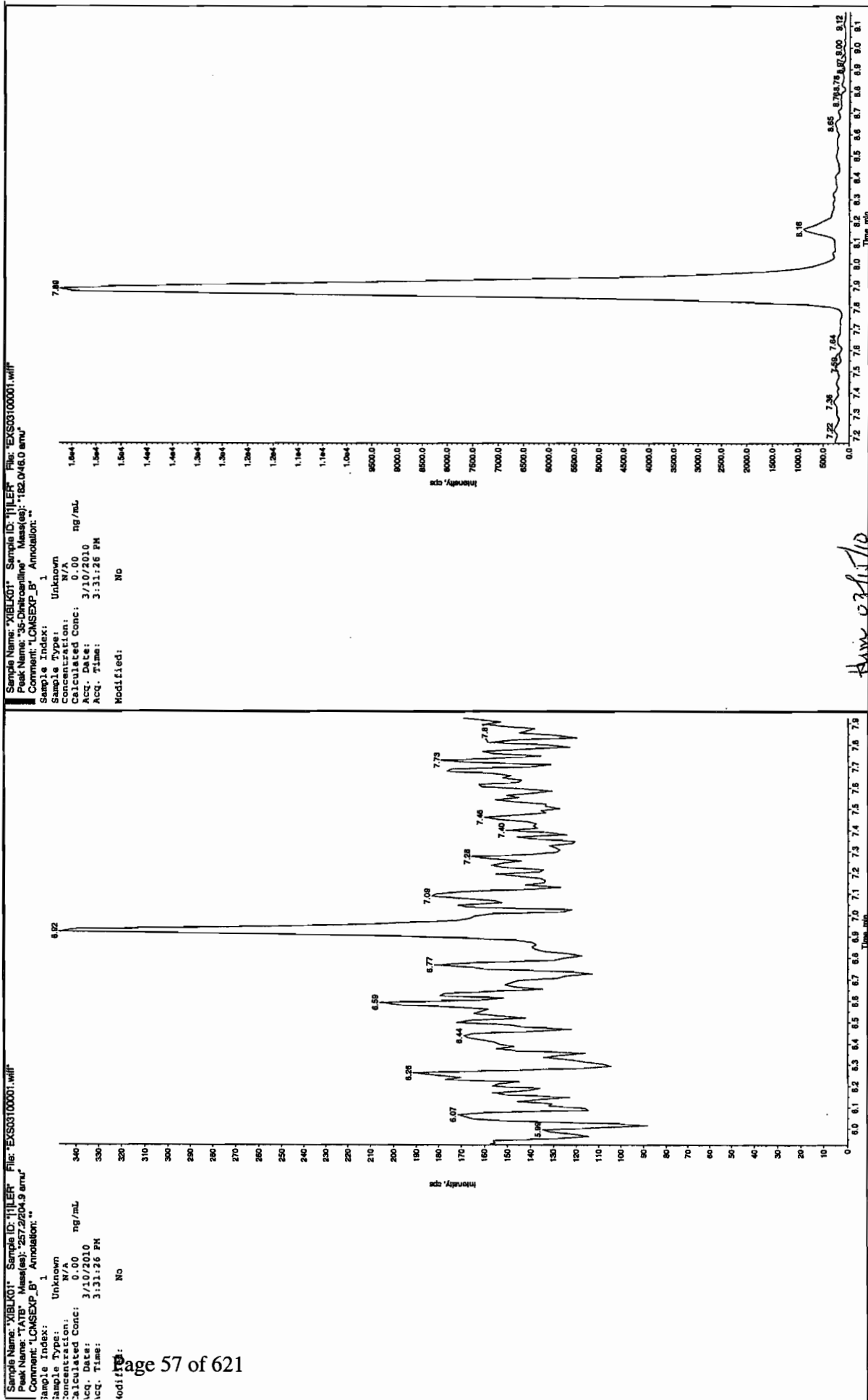
## Explosives Initial Calibration Blank

Lab Name: GEL Laboratories LLCGEL Job No(SDG): 10-1908Lab Code: GELLab Sample ID: XIBLK01Analysis Date: 10-MAR-10 15:31GEL Data File: EXS03100001.wiffInstrument ID: LCMSMSColumn: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	98.2
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	14.6
2,6-Diamino-4-nitrotoluene	0	0



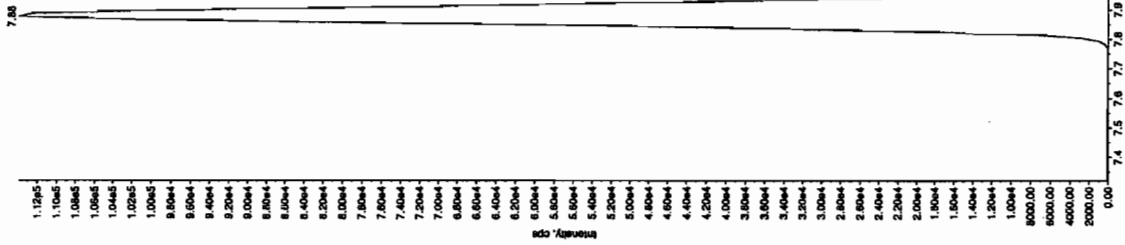
Ken 3/13/10



Ken 3/13/10

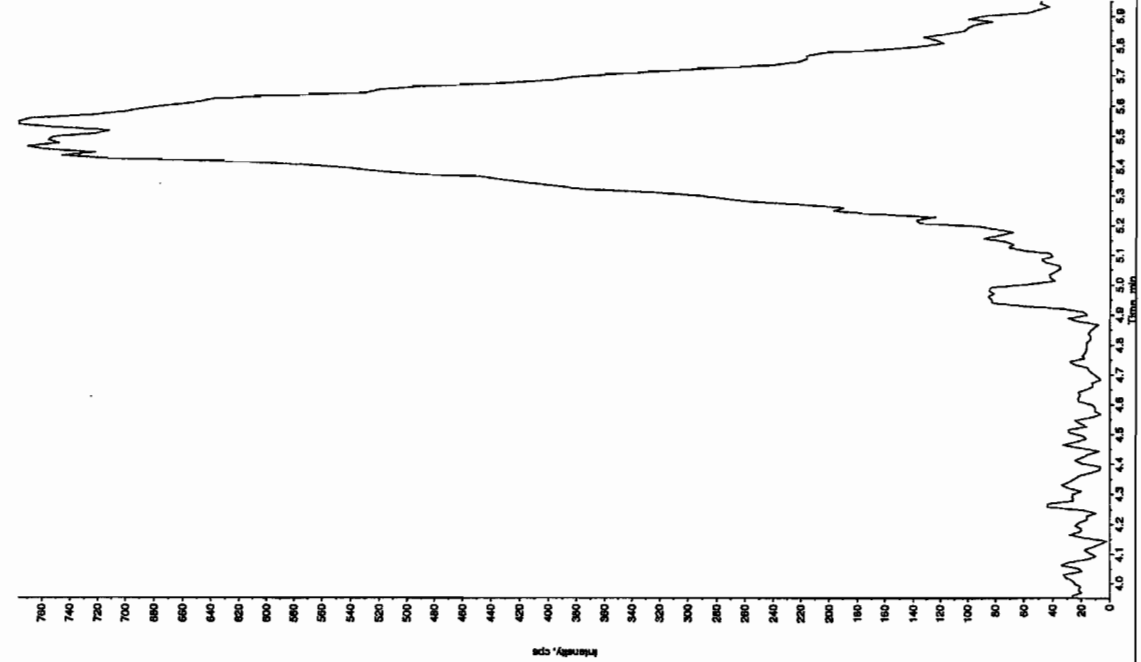
Sample Name: "XIBLK01" Sample ID: "11LER" File: "EX30310001.wif"  
Peak Name: "34-Chlorobutene" Mass(es): "182.1751.9 amu"  
Comment: "LONEXP\_3" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:31:26 PM  
Modified: No



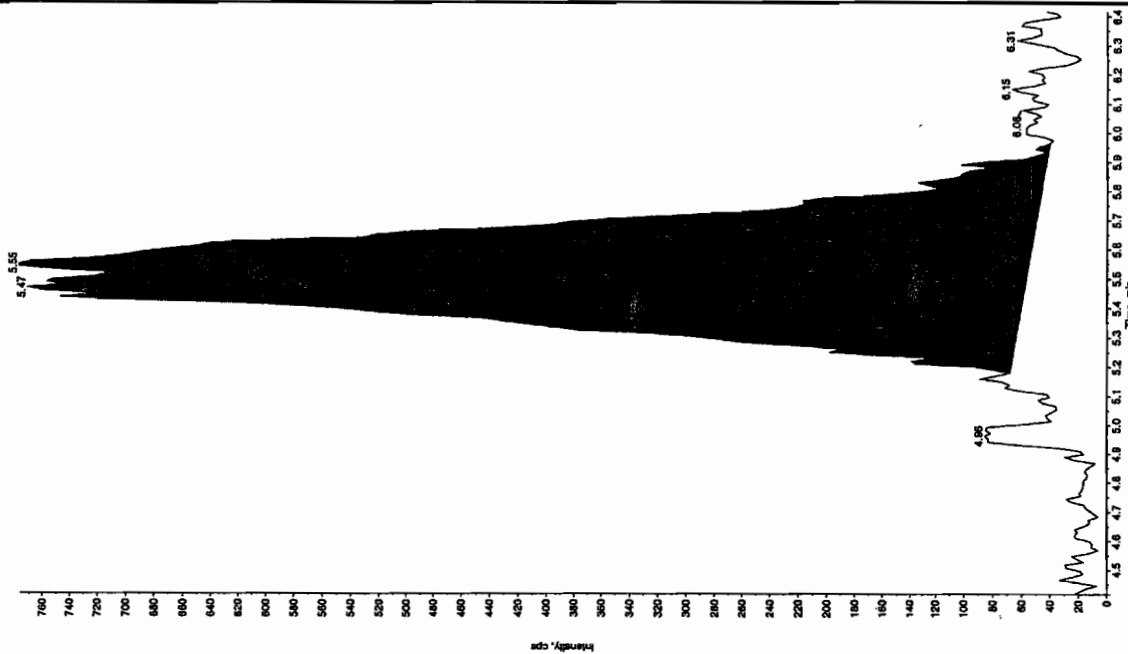
Sample Name: "XIBLK01" Sample ID: "11LER" File: "EX30310001.wif"  
Peak Name: "2,3-Dimethyl-2-butene" Mass(es): "106.046.0 amu"  
Comment: "LONEXP\_3" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:31:26 PM  
Modified: No



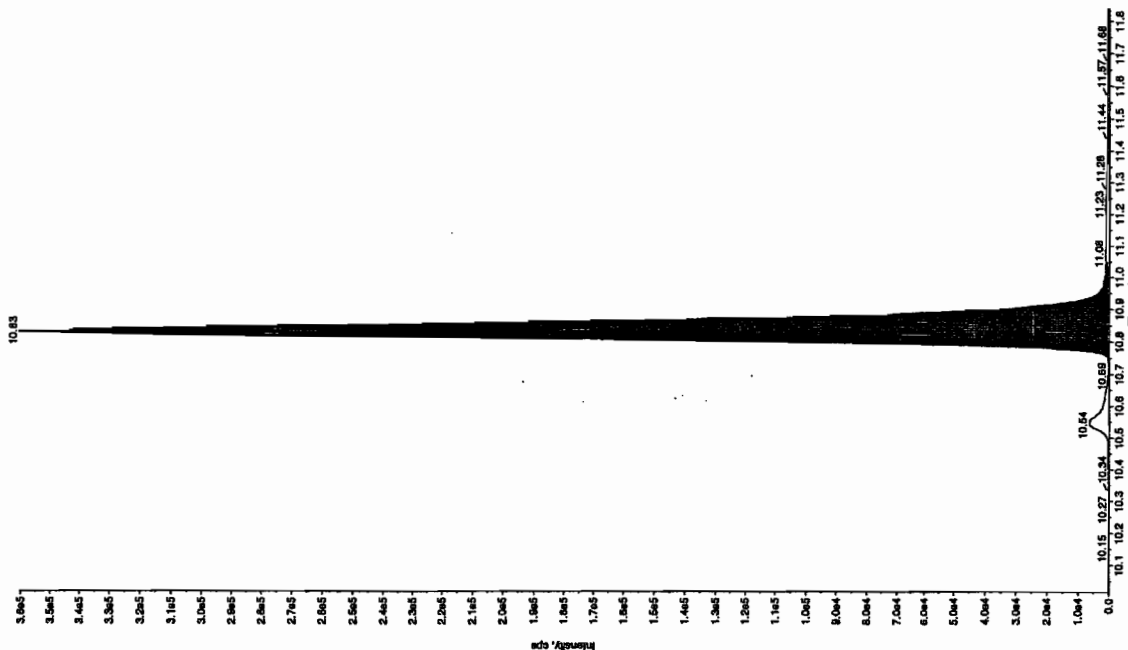
Sample Name: "XIBLK01" Sample ID: "11LER" File: "EX503100001.wif"  
 Peak Name: "24-Diamino-8-nitrofluorene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 14.6 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 3:31:26 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: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.55 min  
 Area: 1.54e+004 counts  
 Height: 721.263 cps  
 Start Time: 5.18 min  
 End Time: 5.96 min



Sample Name: "XIBLK01" Sample ID: "11LER" File: "EX503100001.wif"  
 Peak Name: "tri-(n-octyl) phosphate" Mass(es): "386.191.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 98.2 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 3:31:26 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: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 1.36e+006 counts  
 Height: 360022.461 cps  
 Start Time: 10.7 min  
 End Time: 11.0 min



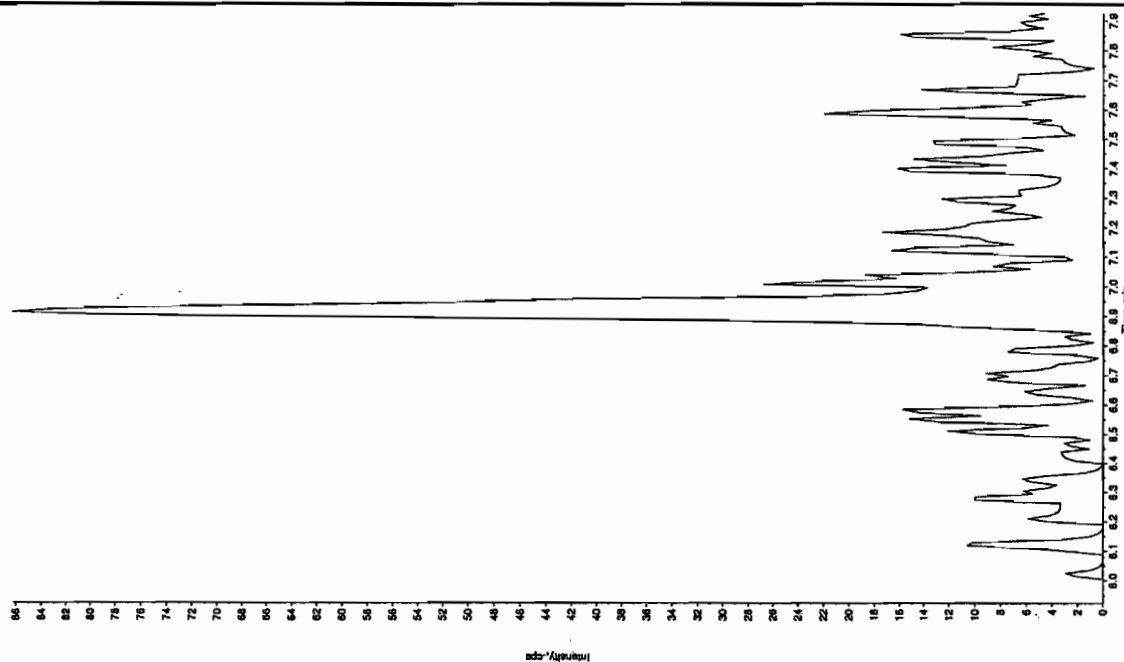
**Explosives Initial Calibration Blank****Lab Name:** GEL Laboratories LLC**GEL Job No(SDG):** 10-1908**Lab Code:** GEL**Lab Sample ID:** XIBLK01**Analysis Date:** 10-MAR-10 15:47**GEL Data File:** EXS03100002.wiff**Instrument ID:** LCMSMS**Column:** Phenomenex Ultracarb 5u ODS(20)

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

Jan 3/2/10

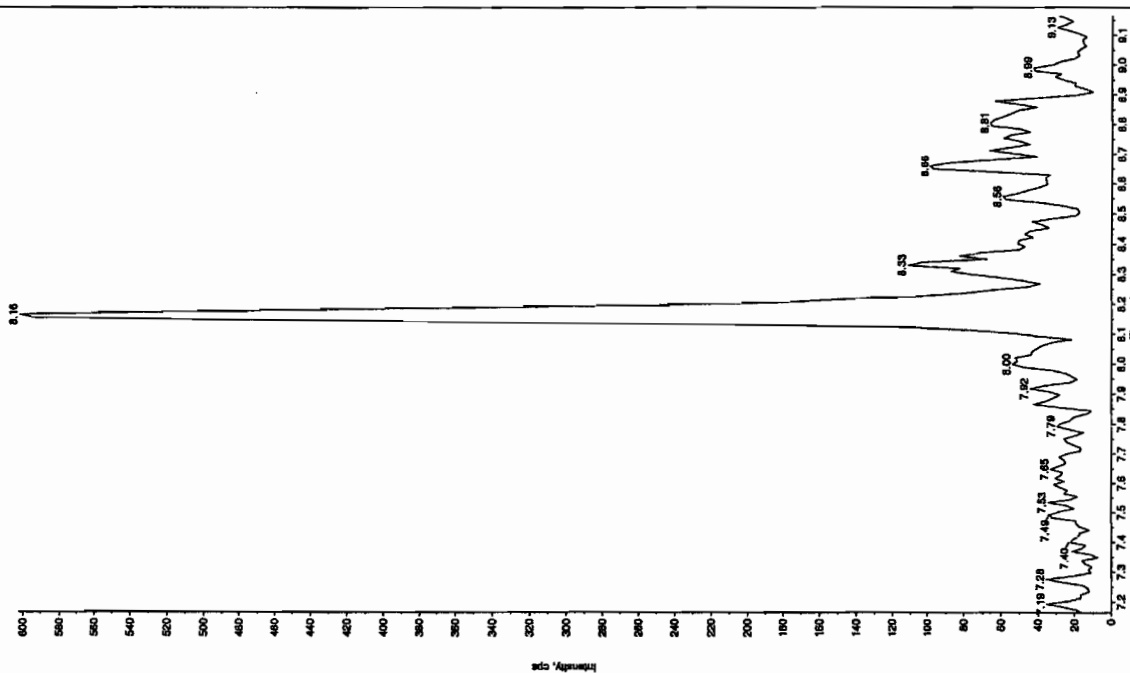
Sample Name: "VIELX01" Sample ID: "VIELX" File: "EXS0310002.wif"  
Peak Name: "VIELX" Mass(es): "257.204.9 amu"  
Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:47:13 PM  
Modified: No



Sample Name: "VIELX01" Sample ID: "VIELX" File: "EXS0310002.wif"  
Peak Name: "VIELX" Mass(es): "182.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: "

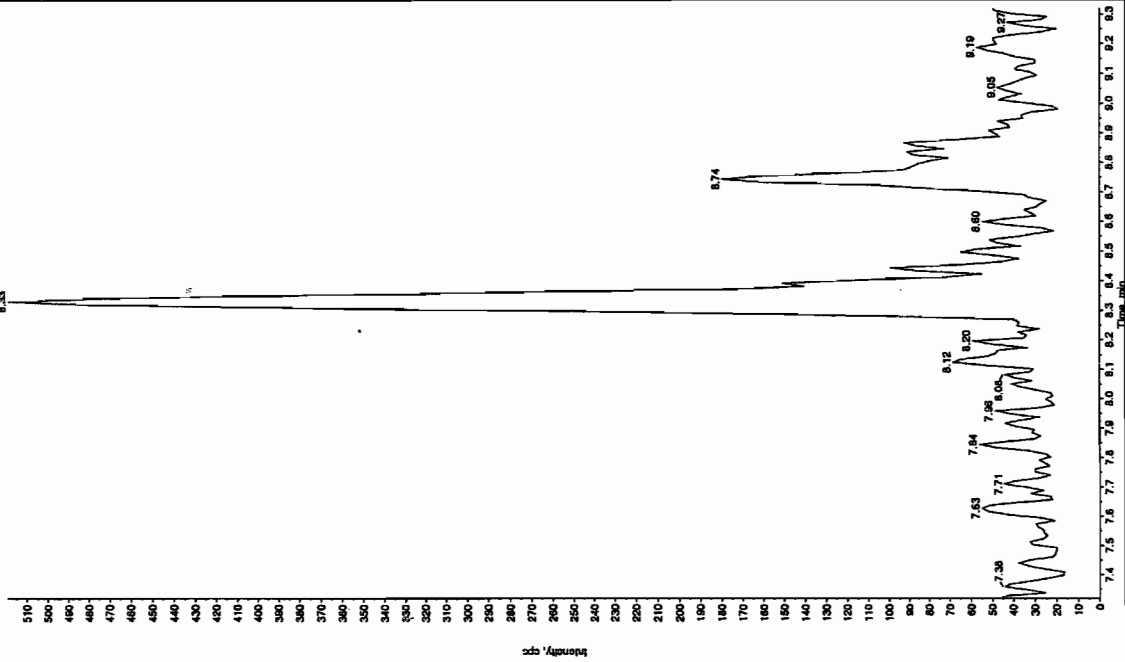
Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:47:13 PM  
Modified: No



Jan 03/15/10

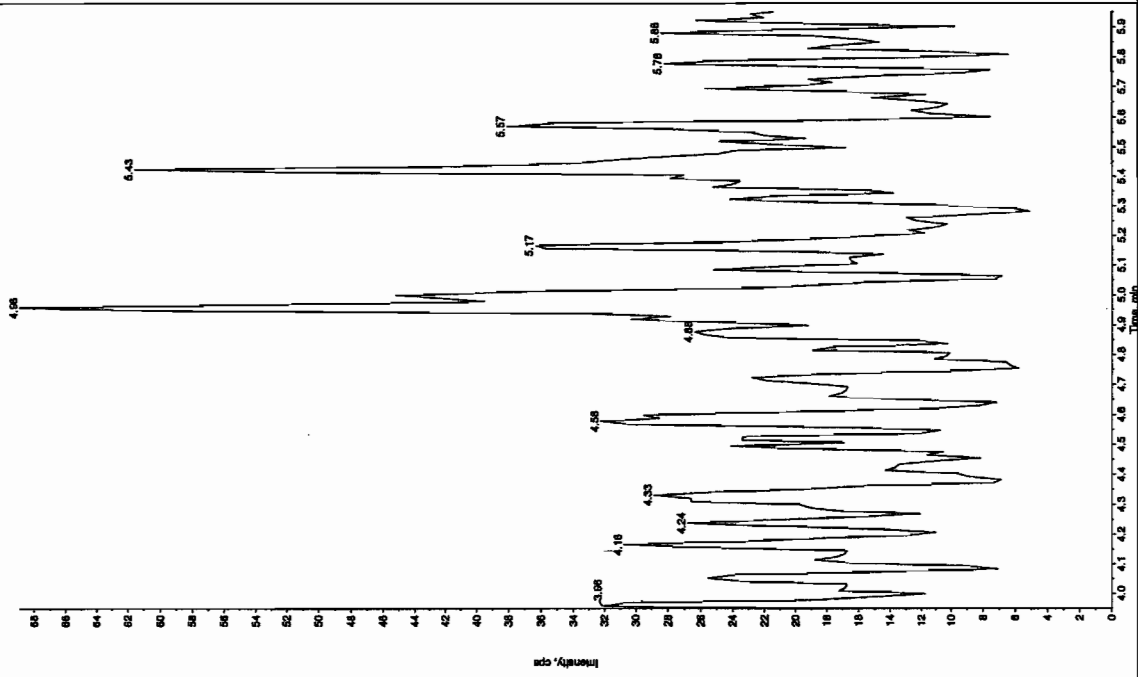
Sample Name: "XBLX01" Sample ID: "11LEF" File: "EX50310002.wif"  
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "182.1/181.2 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:47:13 PM  
Modified: No



Sample Name: "XBLX01" Sample ID: "11LEF" File: "EX50310002.wif"  
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "186.0/186.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

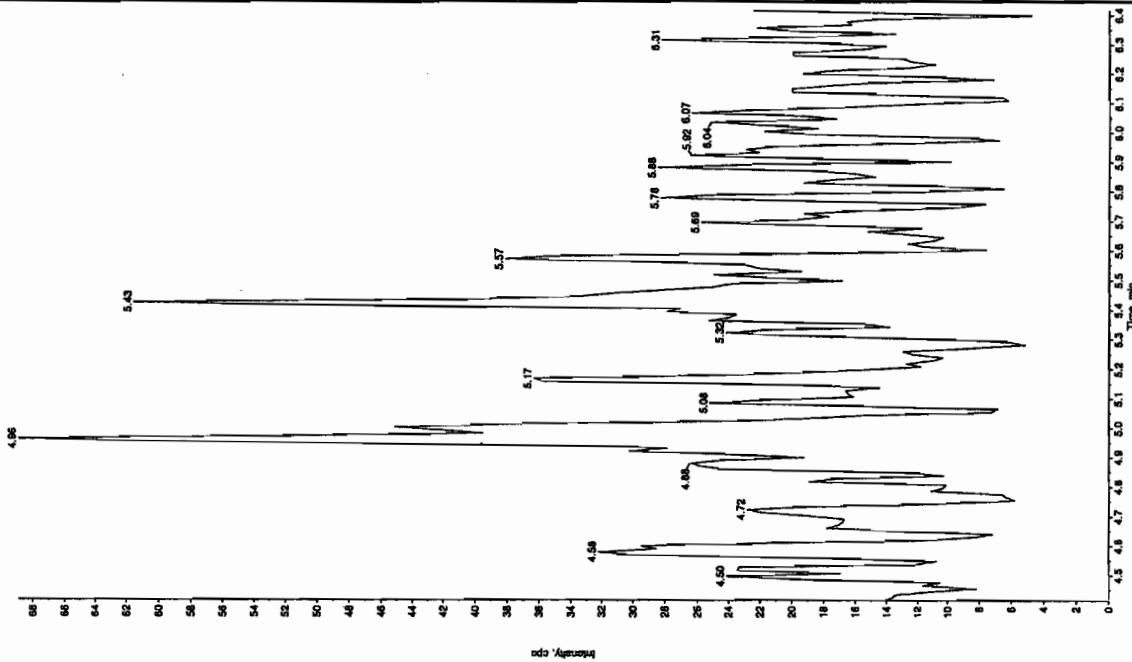
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 3:47:13 PM  
Modified: No



Sample Name: "XBLK01" Sample ID: "JL1ER" File: "E:\503100002.wif"  
 Peak Name: "24-Diamino-6-nitroindole" Mass(es): "162.046.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

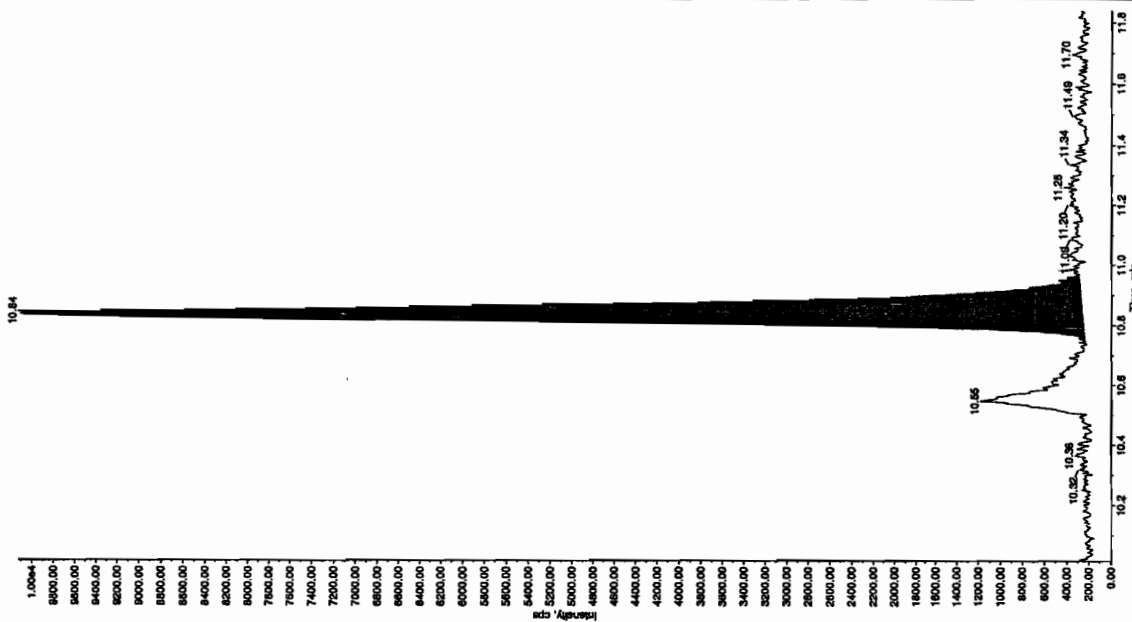
Sample Index: 1  
 Sample Type: Unknown  
 Sample Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 3:47:13 PM  
 Modified: No

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Sample Name: "XBLK01" Sample ID: "JL1ER" File: "E:\503100002.wif"  
 Peak Name: "bis(C-oxenyl) phosphate" Mass(es): "385.1791.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Sample Concentration: N/A  
 Calculated Conc: No Intercept  
 Acq. Date: 3/10/2010  
 Acq. Time: 3:47:13 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: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Peak: 3.81e+06 counts  
 Height: 5851.61 cps  
 Start Time: 10.7 min  
 End Time: 11.0 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK02

**Analysis Date:** 12-APR-10 19:36

**GEL Data File:** EXP0412009a

**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	566.025
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	597.817
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\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

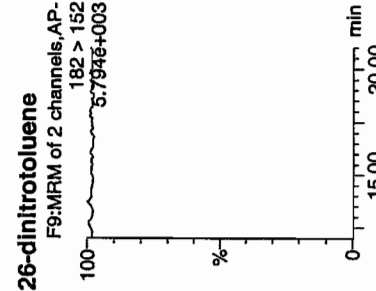
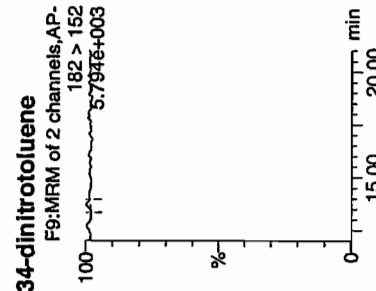
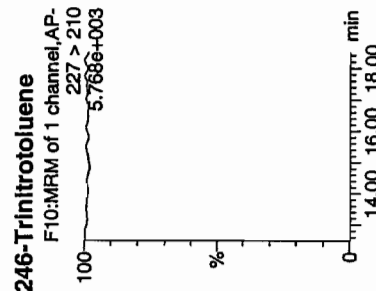
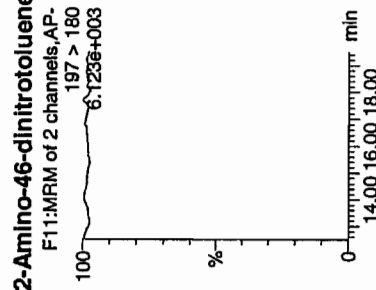
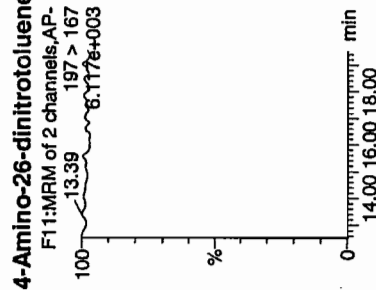
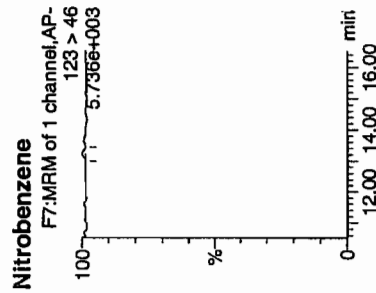
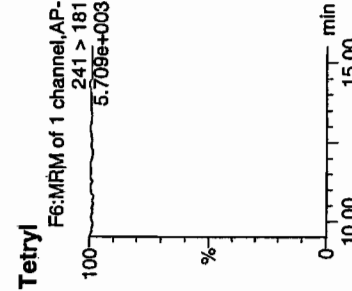
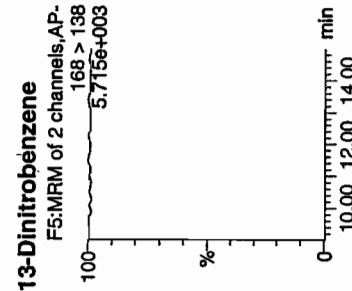
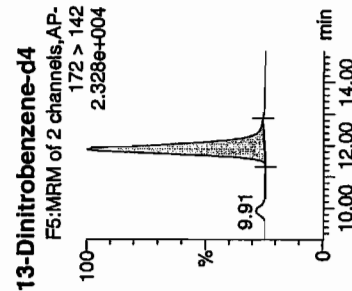
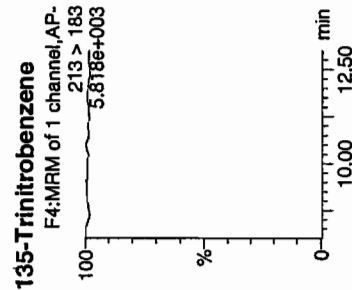
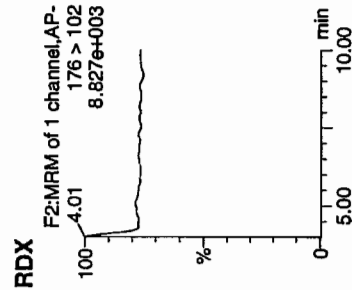
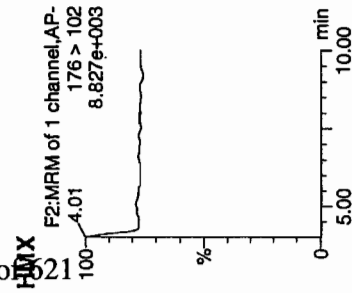
Name: C:\MASSLYNX\NEW\_EXP.PRO\DATA\EXP0412009a

**Date: 12-Apr-2016**

Time: 19:36:32

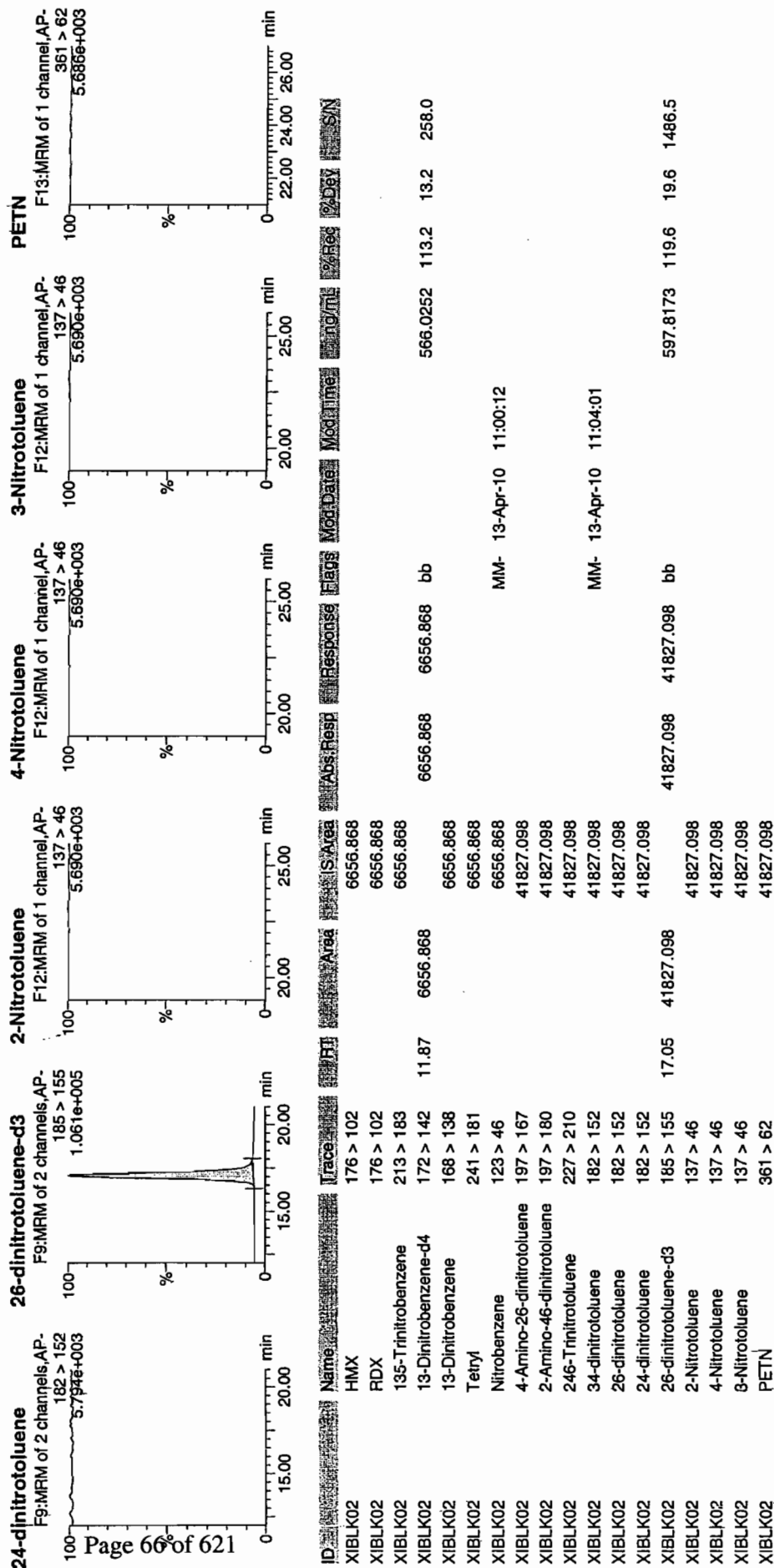
**IB: XIBLK02**

Vfal: 1:1,A



Am 04/04/00

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qtd, Time: Tue Apr 13 11:12:22 2010



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK03

**Analysis Date:** 12-APR-10 20:35

**GEL Data File:** EXP0412011a

**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	547.706
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	578.822
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\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412011a

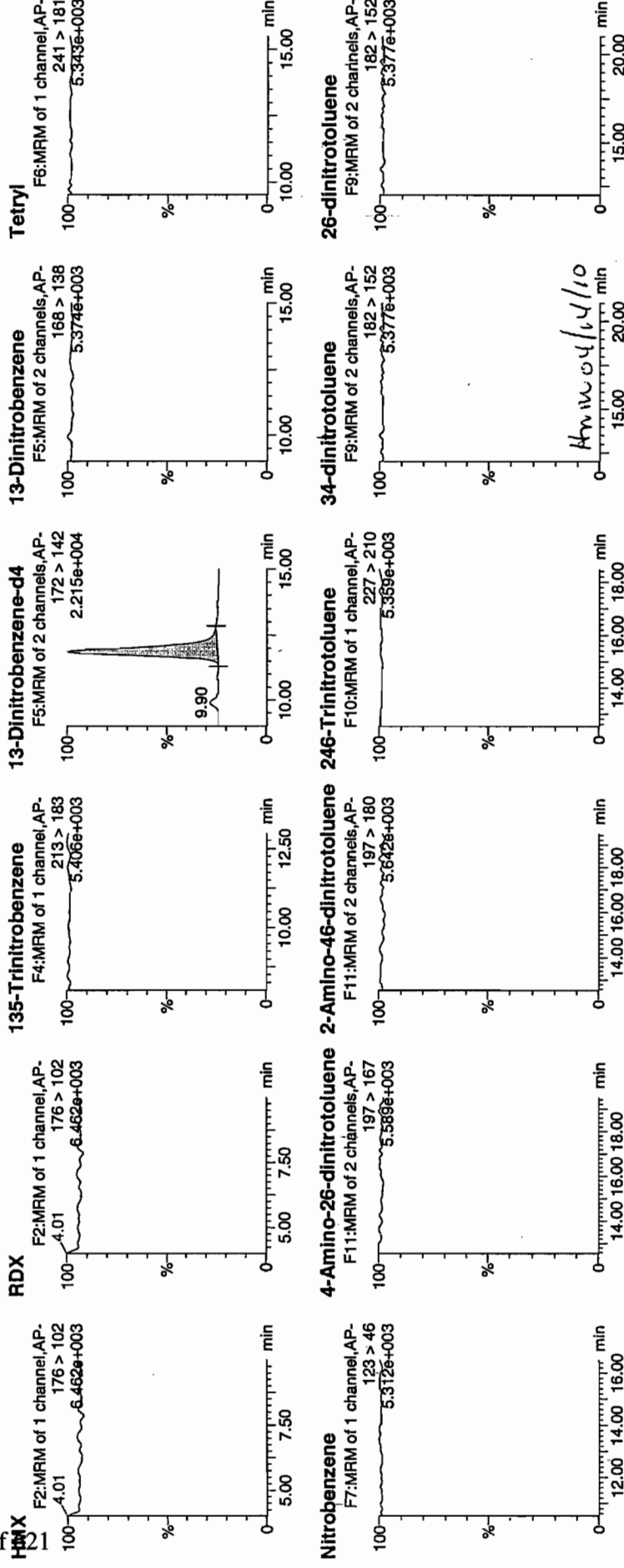
Date: 12-Apr-2010

Time: 20:35:28

ID: XIBLK03

Val: 1:1,A

9/13/10

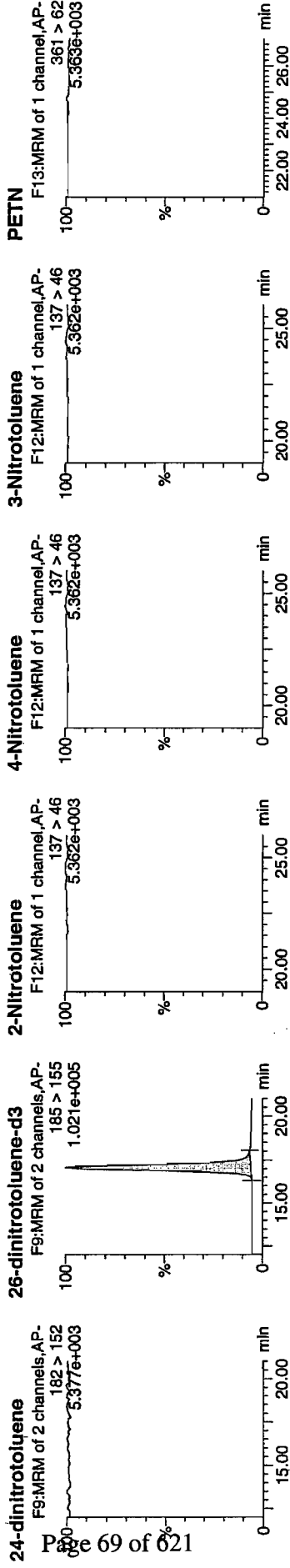


# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Rec	% Day	S/N
XIBLK03	HMX	176 > 102			6441.423								
XIBLK03	RDX	176 > 102			6441.423								
XIBLK03	135-Trinitrobenzene	213 > 183			6441.423								
XIBLK03	13-Dinitrobenzene-d4	172 > 142	11.87	6441.423		6441.423	6441.423	bb		547.7062	109.5	9.5	345.7
XIBLK03	13-Dinitrobenzene	168 > 138			6441.423								
XIBLK03	Tetryl	241 > 181			6441.423								
XIBLK03	Nitrobenzene	123 > 46			6441.423								
XIBLK03	4-Amino-26-dinitrotoluene	197 > 167			40498.094								
XIBLK03	2-Amino-46-dinitrotoluene	197 > 180			40498.094								
XIBLK03	246-Trinitrotoluene	227 > 210			40498.094								
XIBLK03	34-dinitrotoluene	182 > 152			40498.094								
XIBLK03	26-dinitrotoluene	182 > 152			40498.094								
XIBLK03	24-dinitrotoluene	182 > 152			40498.094								
XIBLK03	26-dinitrotoluene-d3	185 > 155	17.06	40498.094		40498.094	40498.094	bb		578.8224	115.8	15.8	2241.2
XIBLK03	2-Nitrotoluene	137 > 46			40498.094								
XIBLK03	4-Nitrotoluene	137 > 46			40498.094								
XIBLK03	3-Nitrotoluene	137 > 46			40498.094								
XIBLK03	PETN	361 > 62			40498.094								

**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK04

**Analysis Date:** 13-APR-10 02:58

**GEL Data File:** EXP0412024a

**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	493.141
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	499.061
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\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412024a

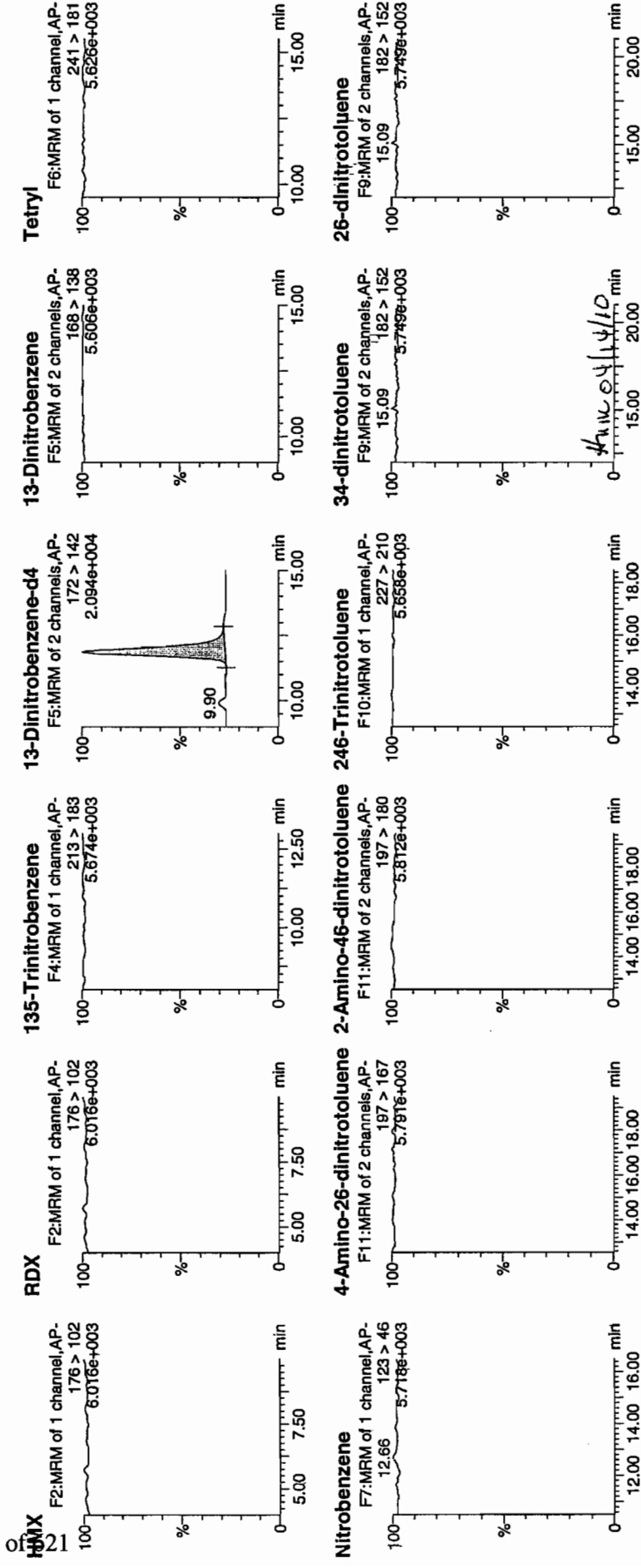
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Time: 02:58:51

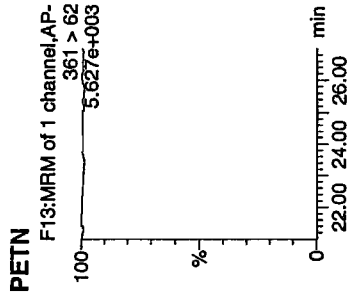
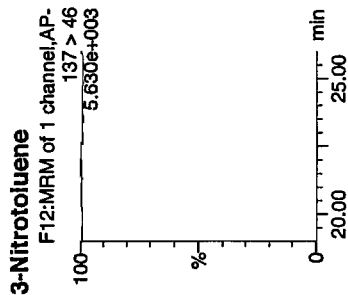
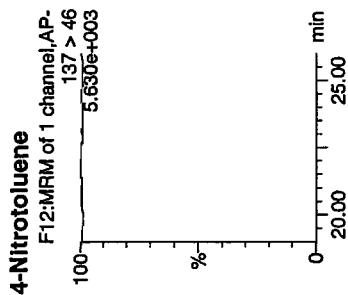
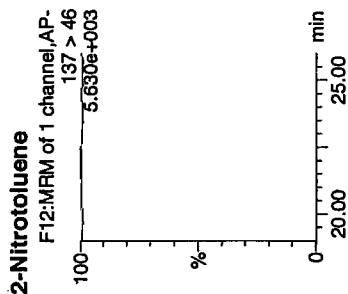
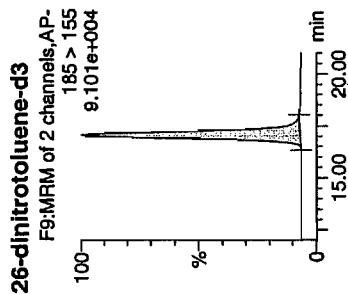
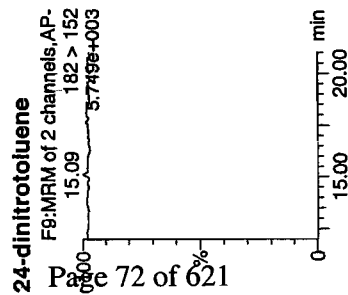
ID: XIBLK04

Val: 1:1,A

10/17  
4/13/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	S Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Norm	% Rec	% Dev	S/N
XIBLK04	HMX	176 > 102			5799.697									
XIBLK04	RDX	176 > 102			5799.697									
XIBLK04	135-Trinitrobenzene	213 > 183			5799.697									
XIBLK04	13-Dinitrobenzene-d4	172 > 142	11.86	5799.697		5799.697	5799.697	bb			493.1410	98.6	-1.4	818.6
XIBLK04	13-Dinitrobenzene	168 > 138			5799.697									
XIBLK04	Teiry	241 > 181			5799.697									
XIBLK04	Nitrobenzene	123 > 46			5799.697									
XIBLK04	4-Amino-26-dinitrotoluene	197 > 167			34917.508									
XIBLK04	2-Amino-46-dinitrotoluene	197 > 180			34917.508									
XIBLK04	246-Trinitrotoluene	227 > 210			34917.508									
XIBLK04	34-dinitrotoluene	182 > 152			34917.508									
XIBLK04	26-dinitrotoluene	182 > 152			34917.508									
XIBLK04	24-dinitrotoluene	182 > 152			34917.508									
XIBLK04	26-dinitrotoluene-d3	185 > 155	17.06	34917.508		34917.508	34917.508	bb			499.0614	99.8	-0.2	4328.2
XIBLK04	2-Nitrotoluene	137 > 46			34917.508									
XIBLK04	4-Nitrotoluene	137 > 46			34917.508									
XIBLK04	3-Nitrotoluene	137 > 46			34917.508									
XIBLK04	PETN	361 > 62			34917.508									



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK05

**Analysis Date:** 13-APR-10 09:22

**GEL Data File:** EXP0412037a

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	510.743
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	501.204
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\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412037a

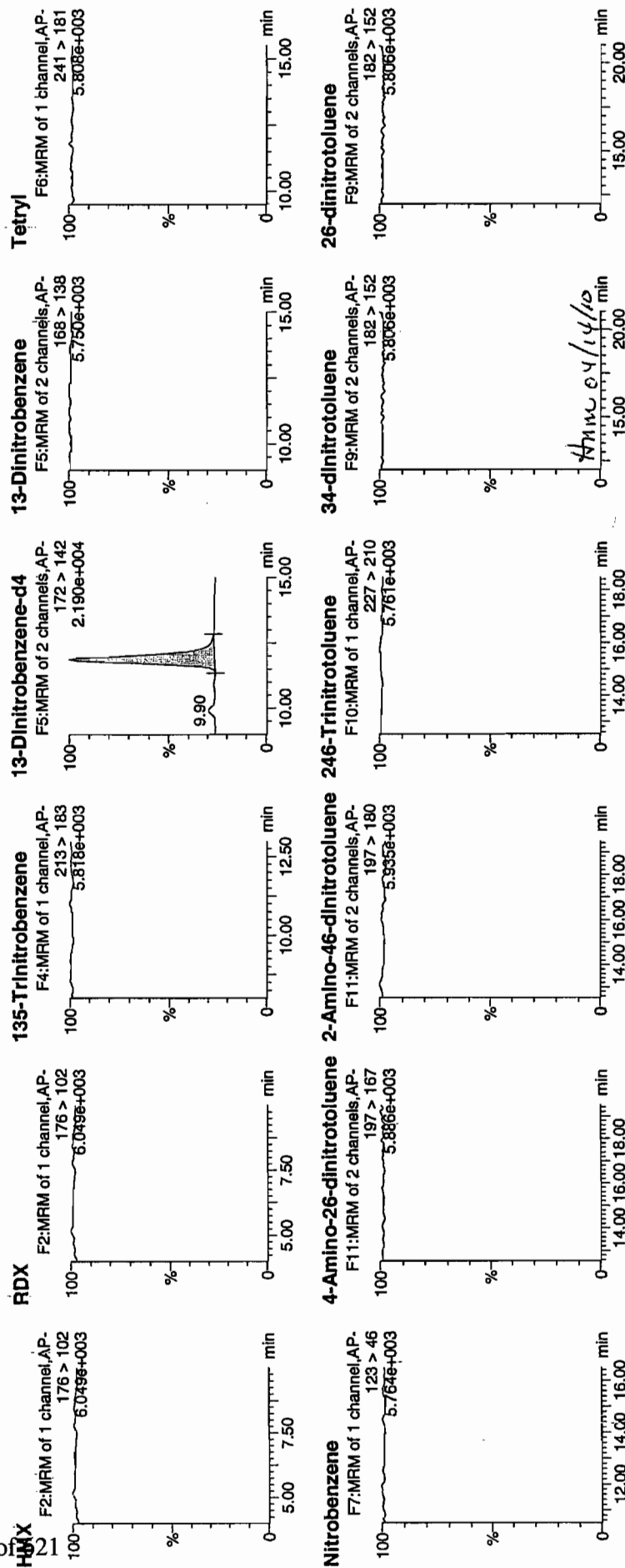
Date: 13-Apr-2010

Time: 09:22:18

ID: XIBLK05

Val: 1:1,A

4/13/10  
MMP



# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

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Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

## 24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 > 152

5.806e+003

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

## 26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 > 155

9.153e+004

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

## 2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.744e+003

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

## 4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.744e+003

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

## 3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 > 46

5.744e+003

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

## PETN

F13:MRM of 1 channel,AP-

361 > 62

5.747e+003

100

%

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

min

20.00

15.00

0

ID	Name	Trace	RT	Area	S Area	Abs. Resp	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N
XIBLK05	HMX		176 > 102			6006.704								
XIBLK05	RDX		176 > 102			6006.704								
XIBLK05	135-Trinitrobenzene		213 > 183			6006.704								
XIBLK05	13-Dinitrobenzene-d4		172 > 142	11.87	6006.704	6006.704	6006.704	bb			510.7425	102.1	2.1	513.6
XIBLK05	13-Dinitrobenzene		168 > 138			6006.704								
XIBLK05	Tetryl		241 > 181			6006.704								
XIBLK05	Nitrobenzene		123 > 46			35067.418								

**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK06

**Analysis Date:** 13-APR-10 11:20

**GEL Data File:** EXP0412041a

**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	648.08
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	519.054
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 Apr 14 09:18:04 2010, Page 5 of 75

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412041a

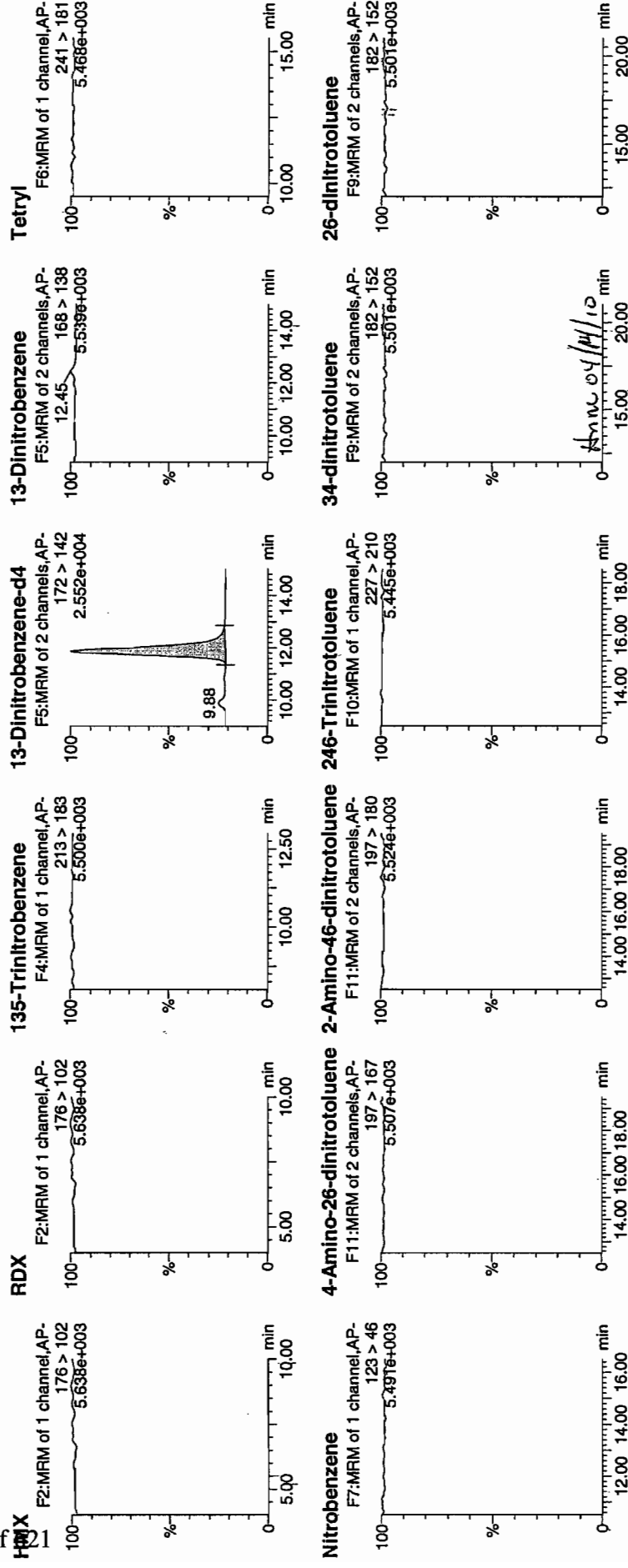
Date: 13-Apr-2010

Time: 11:20:19

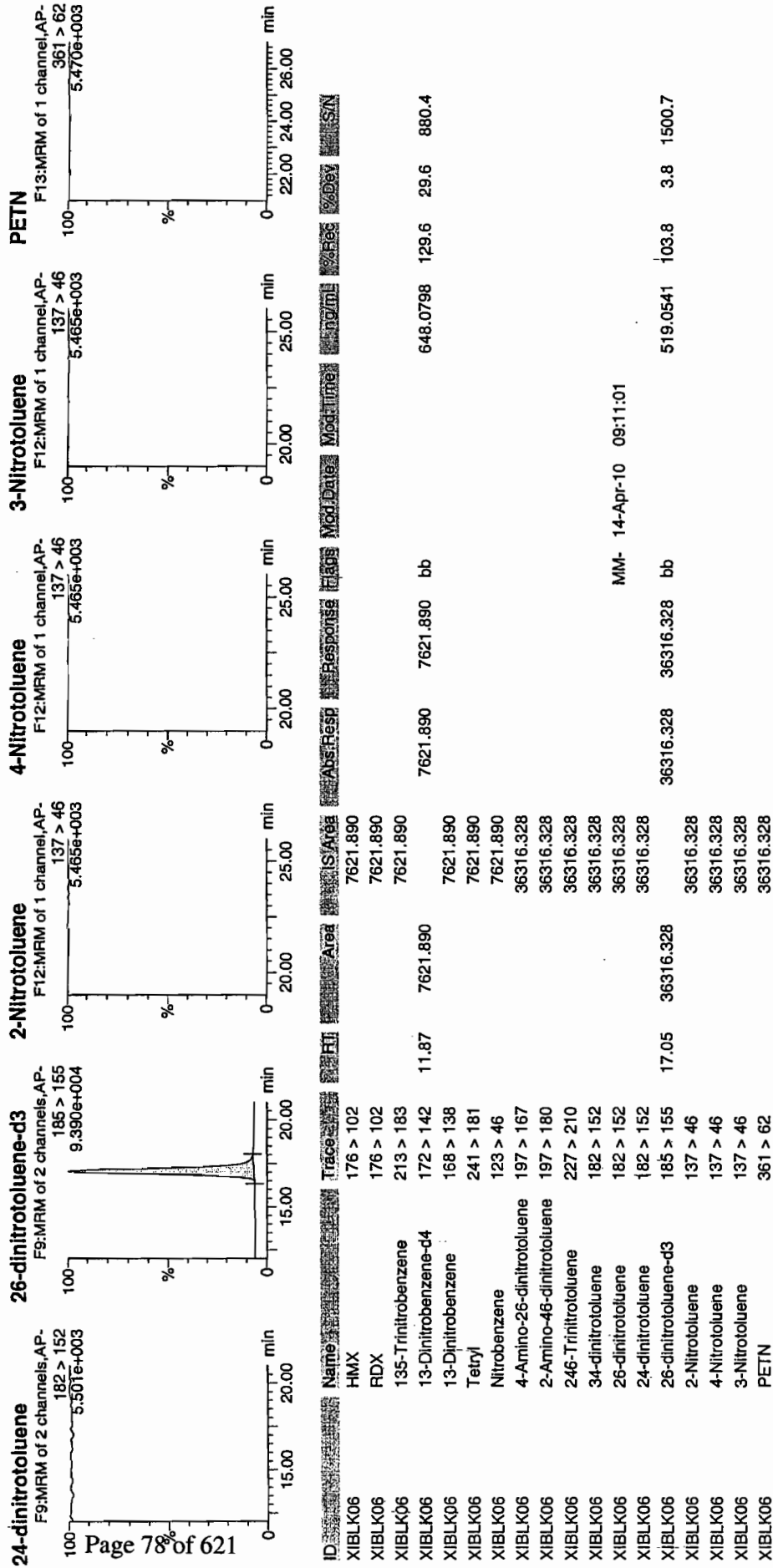
ID: XIBLK06

Vial: 1:1,A

WAT  
d/d/w



Dataset: C:\MASSLYNX\New\_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK07

**Analysis Date:** 13-APR-10 15:46

**GEL Data File:** EXP0412050a

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
1,3,5-Trinitrobenzene	0	0
1,3-Dinitrobenzene-d4	500	555.622
2,4,6-Trinitrotoluene	0	0
2,4-Dinitrotoluene	0	0
2,6-Dinitrotoluene	0	0
2,6-Dinitrotoluene-d3	500	595.796
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\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412050a

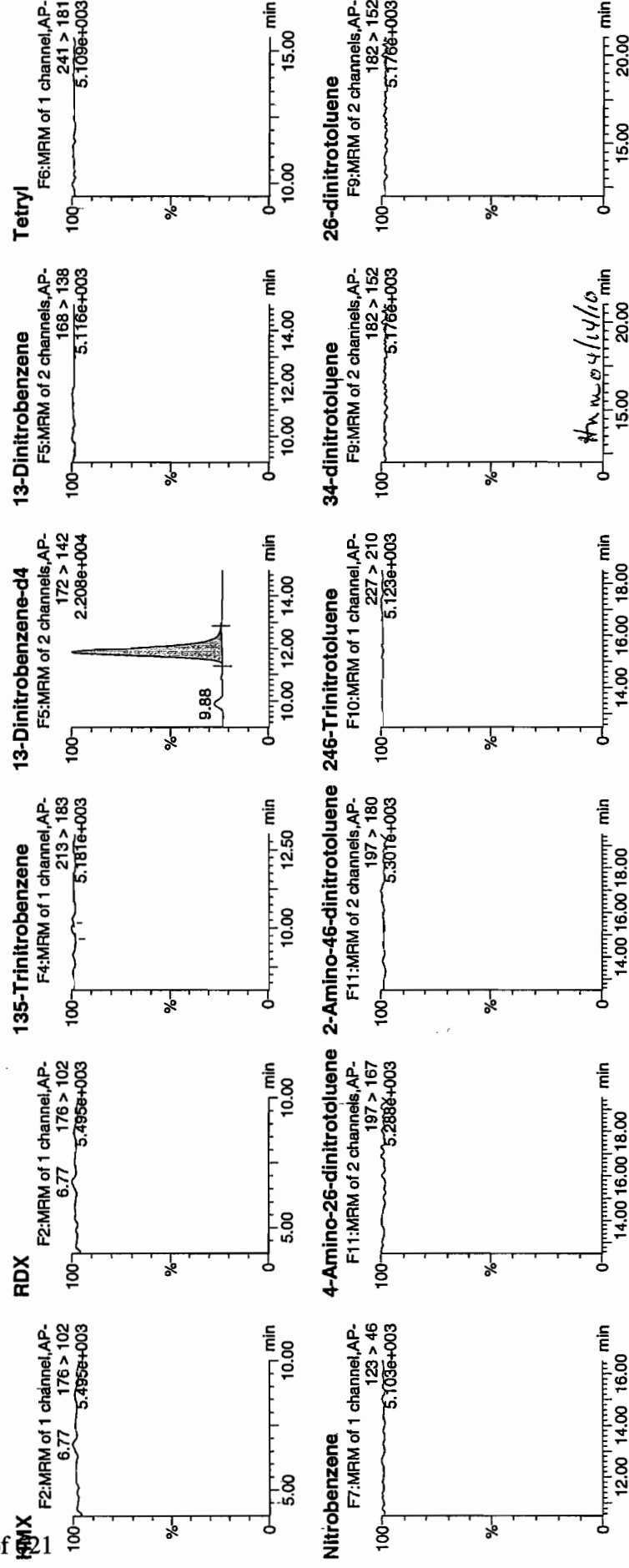
Date: 13-Apr-2010

Time: 15:46:11

ID: XIBLK07

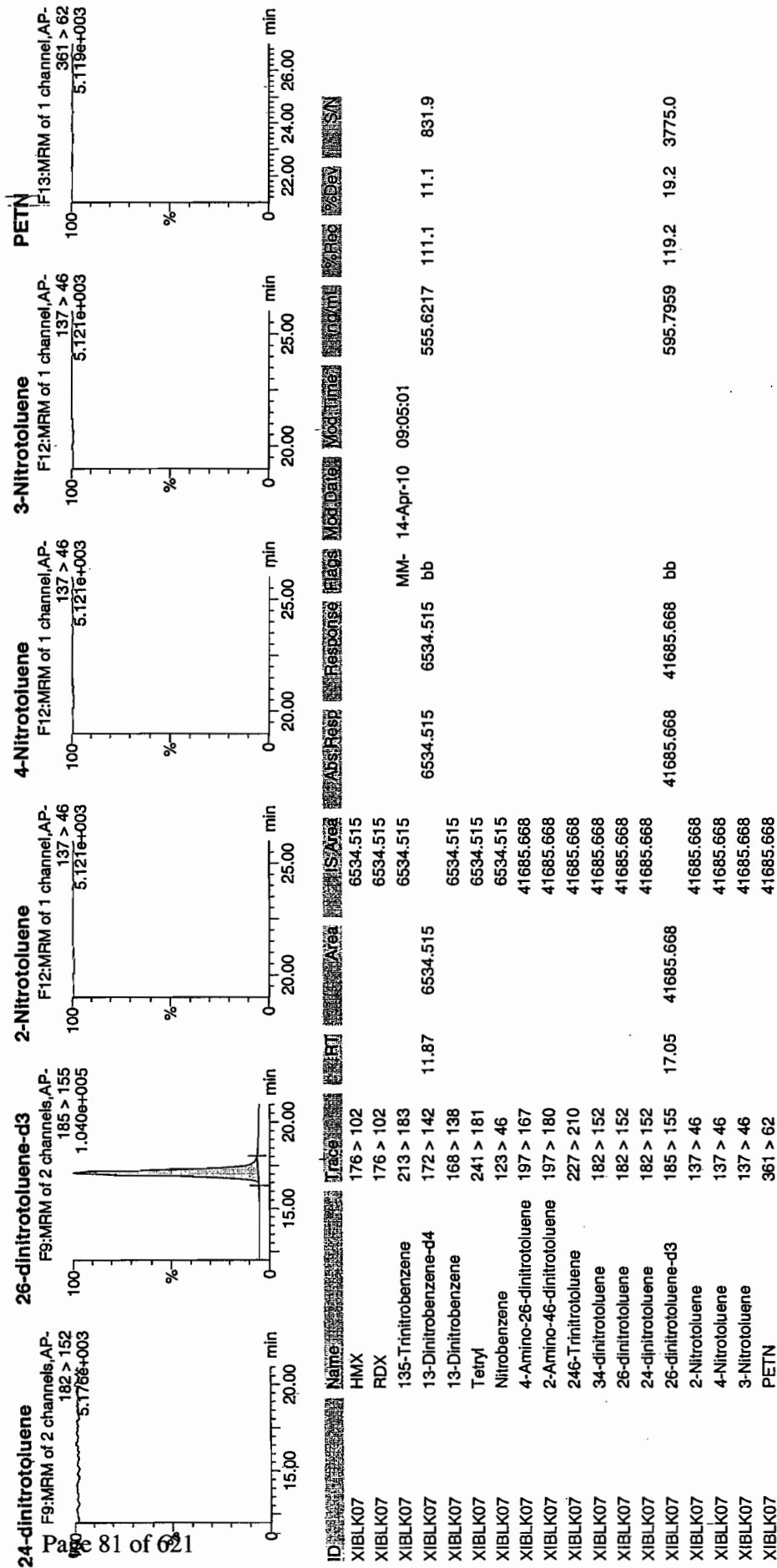
Val: 1:1,A

MTT  
4/14/10





Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK02

**Analysis Date:** 10-MAR-10 17:52

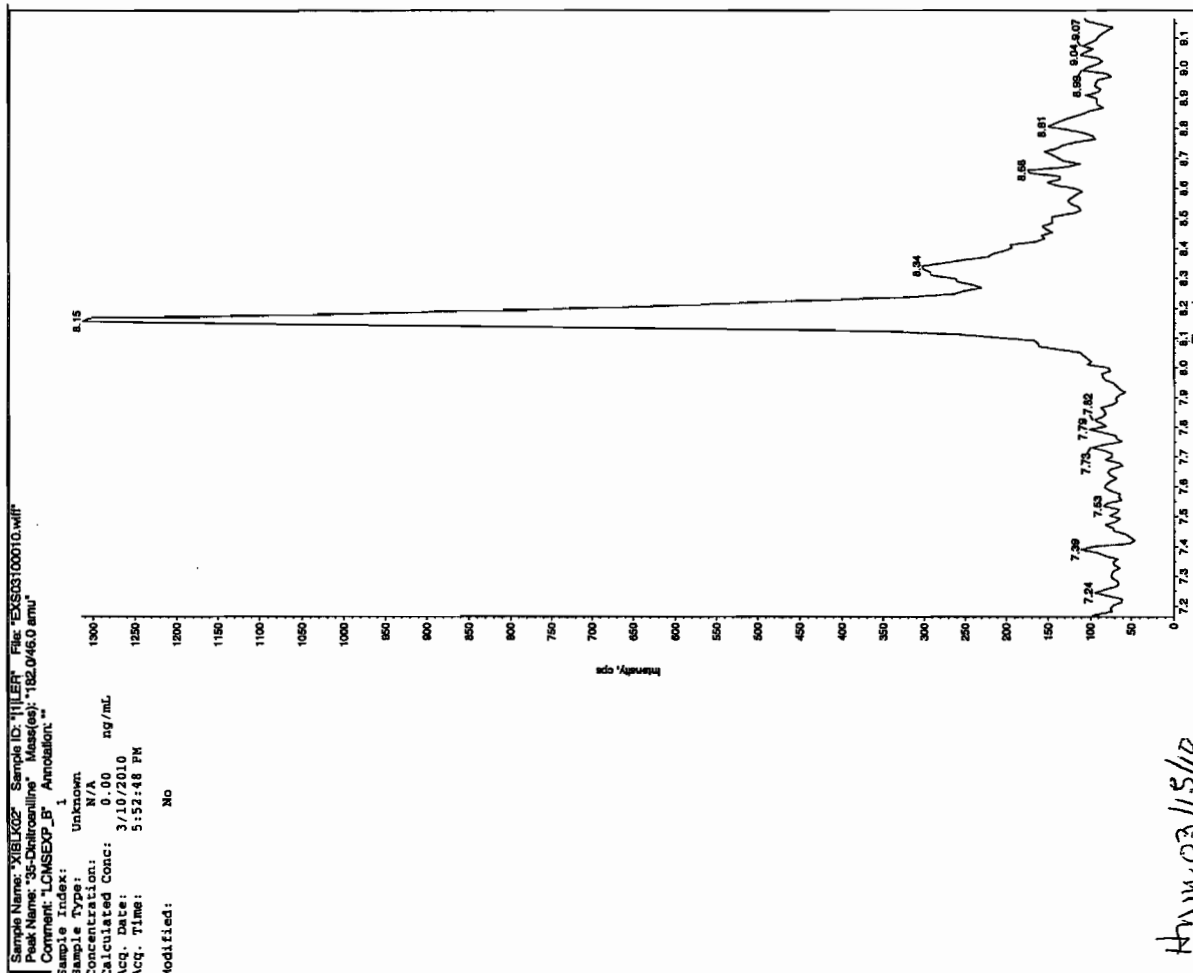
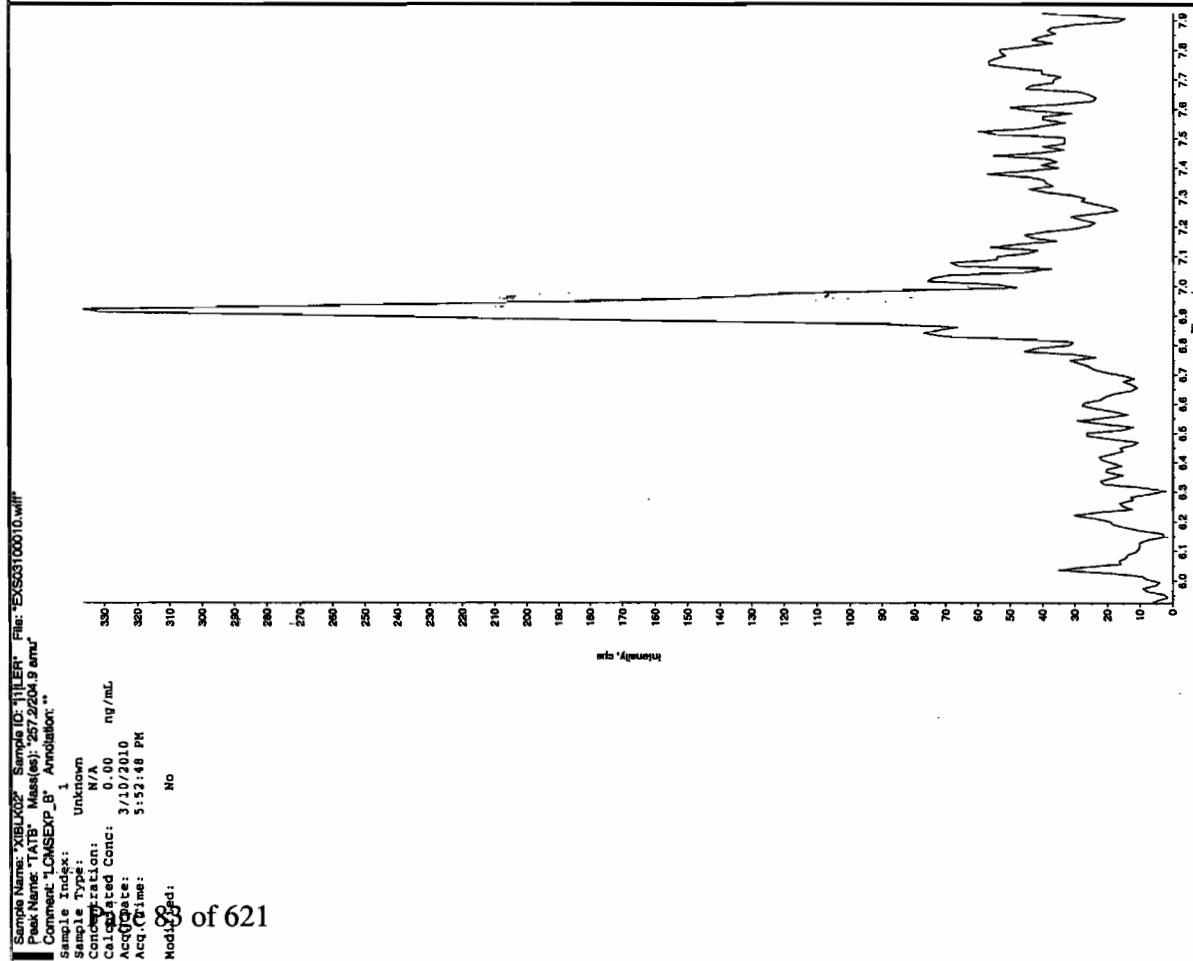
**GEL Data File:** EXS03100010.wiff

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	3.61
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

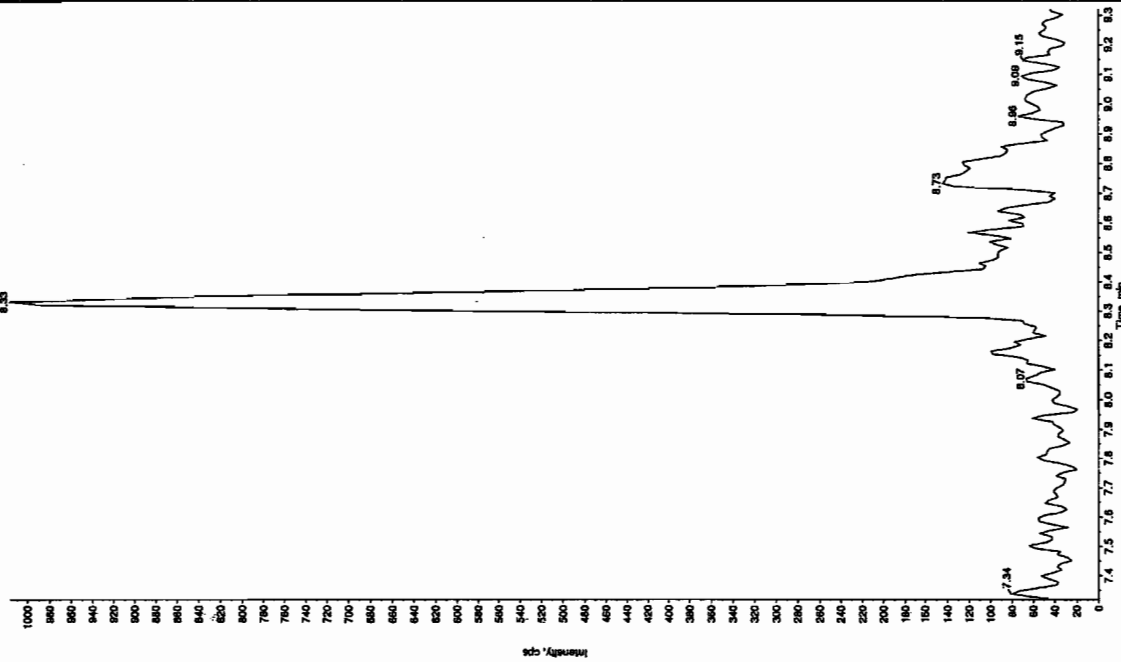
San 3/13/10



HW 03/15/10

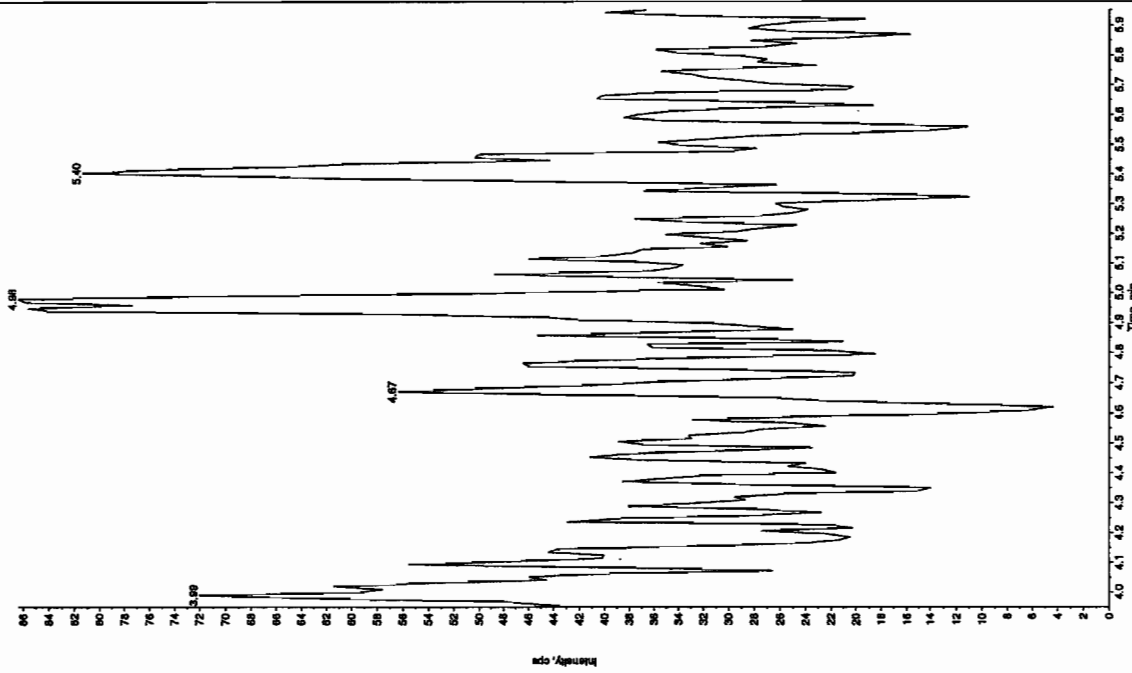
Sample Name: "XBLX02" Sample ID: "11LER" File: "EX030100010.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 5:52:48 PM  
Modified: No



Sample Name: "XBLX02" Sample ID: "11LER" File: "EX030100010.wif"  
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "166.048.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

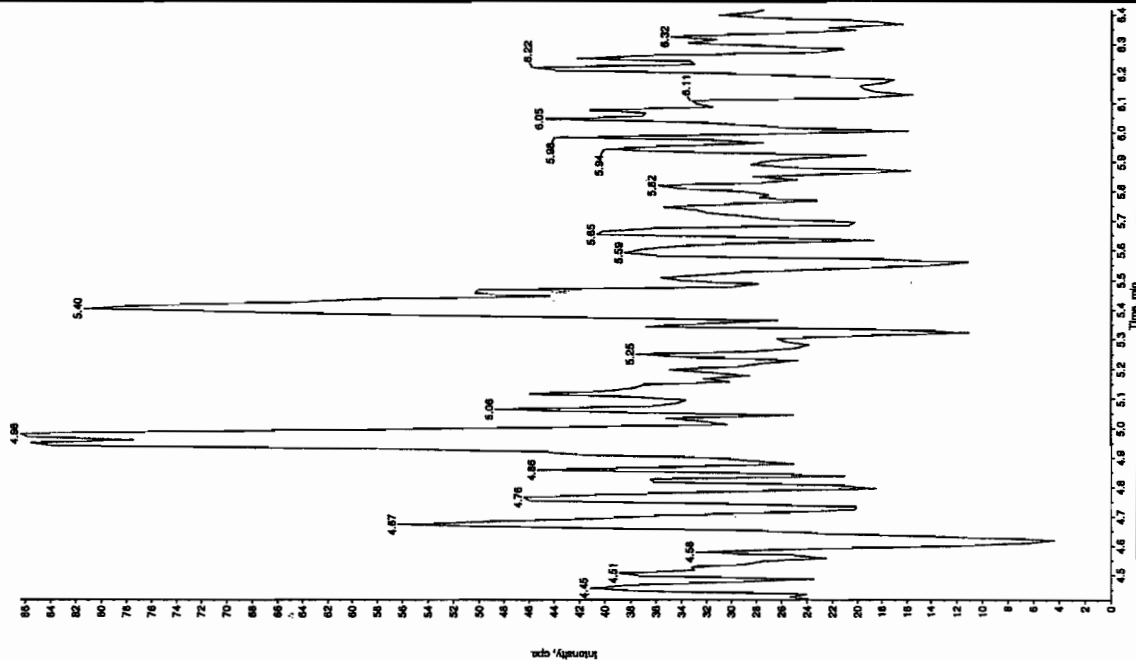
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 5:52:48 PM  
Modified: No



Sample Name: "XIBLX02" Sample ID: "JILLER" File: "EXS03100010.will"  
Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: "

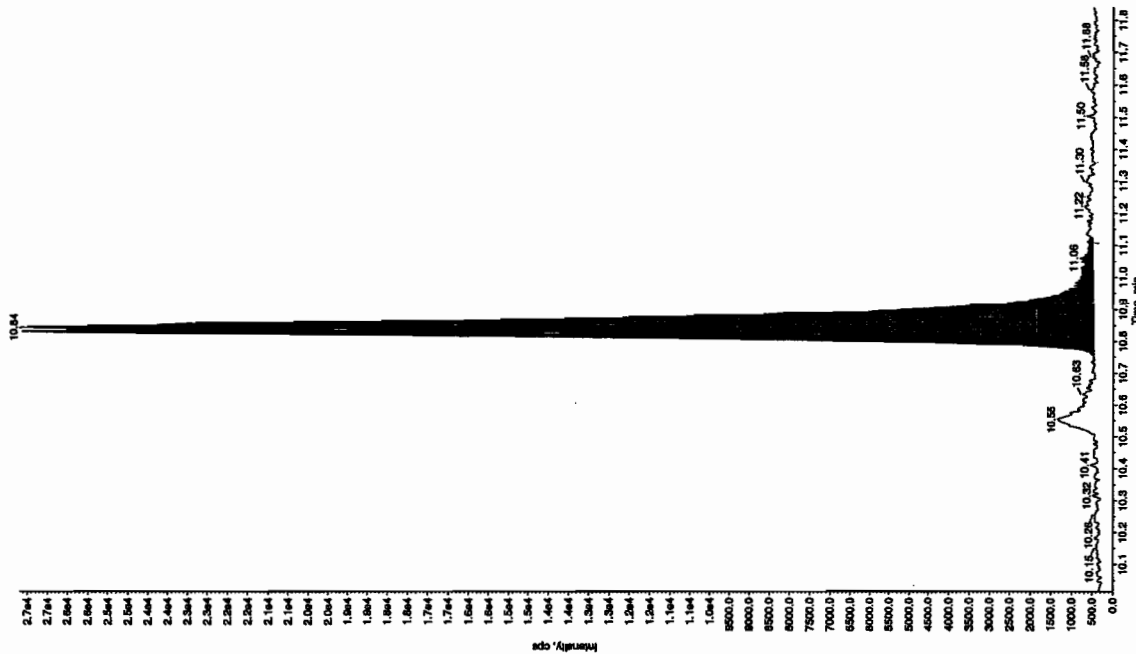
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3/10/2010  
Acq. Date: 5/12/18 PM  
Acq. Time: 5:52:48 PM  
Modified: No

QC3:



Sample Name: "XIBLX02" Sample ID: "JILLER" File: "EXS03100010.will"  
Peak Name: "tri(o-cresyl) phosphate" Mass(es): "350.191.0 amu"  
Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3/10/2010  
Acq. Date: 5/12/18 PM  
Acq. Time: 5:52:48 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 1.13e+005 counts  
Height: 26720.905 cps  
Start Time: 10.7 min  
End Time: 11.1 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK03

**Analysis Date:** 10-MAR-10 18:24

**GEL Data File:** EXS03100012.wiff

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.32
TATB	0	0
3,5-Dinitroaniline	0	0

Jan 2/13/10

Sample Name: "XBLK03" Sample ID: "111ER" File: "EXS03100012.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

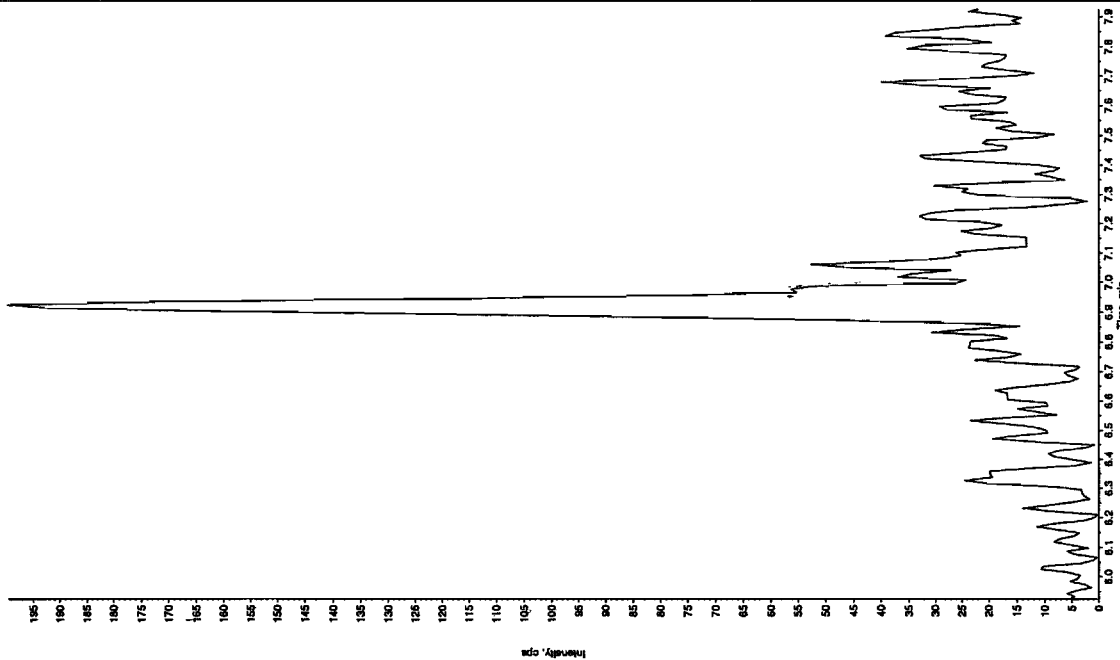
Concentration: N/A ng/mL

Calculated Conc: 0.00

Acq. Date: 3/10/2010

Acq. Time: 6:24:12 PM

Modified: No



Sample Name: "XBLK03" Sample ID: "111ER" File: "EXS03100012.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

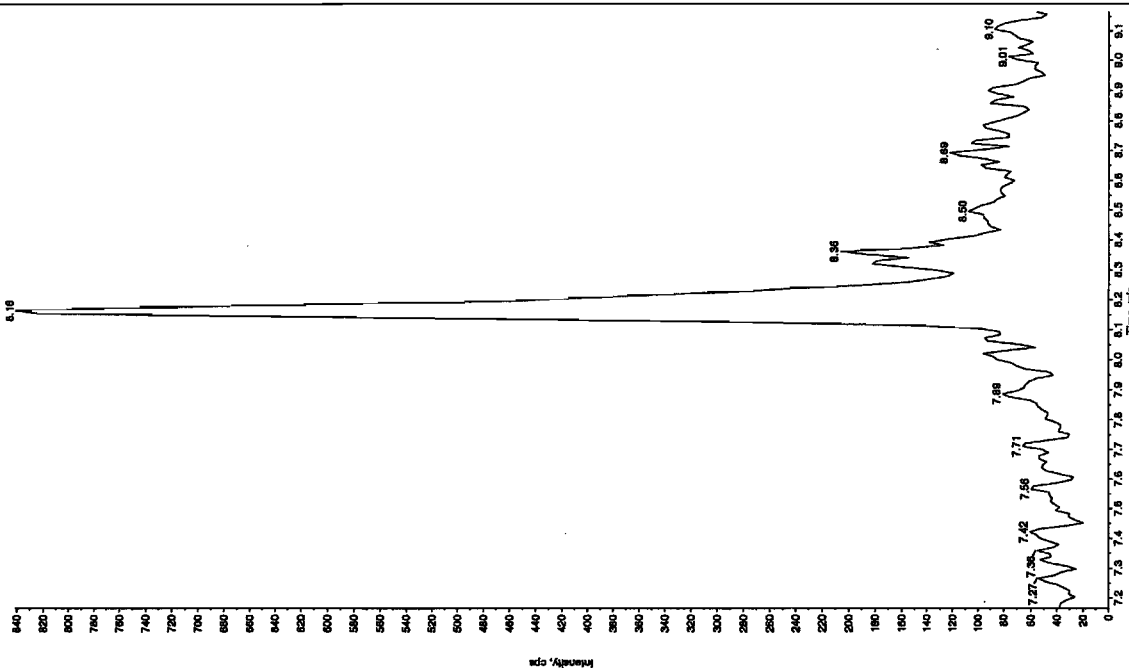
Concentration: N/A ng/mL

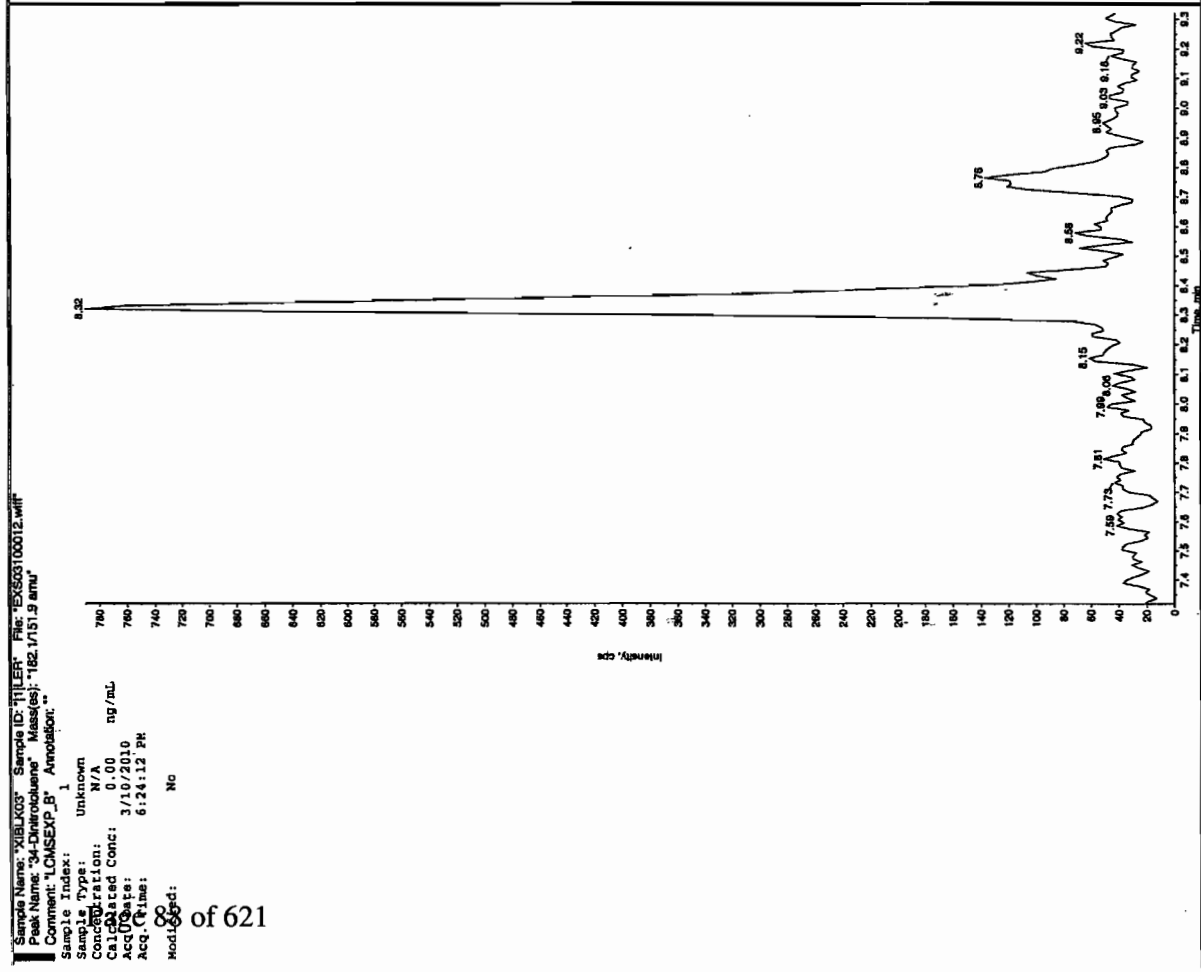
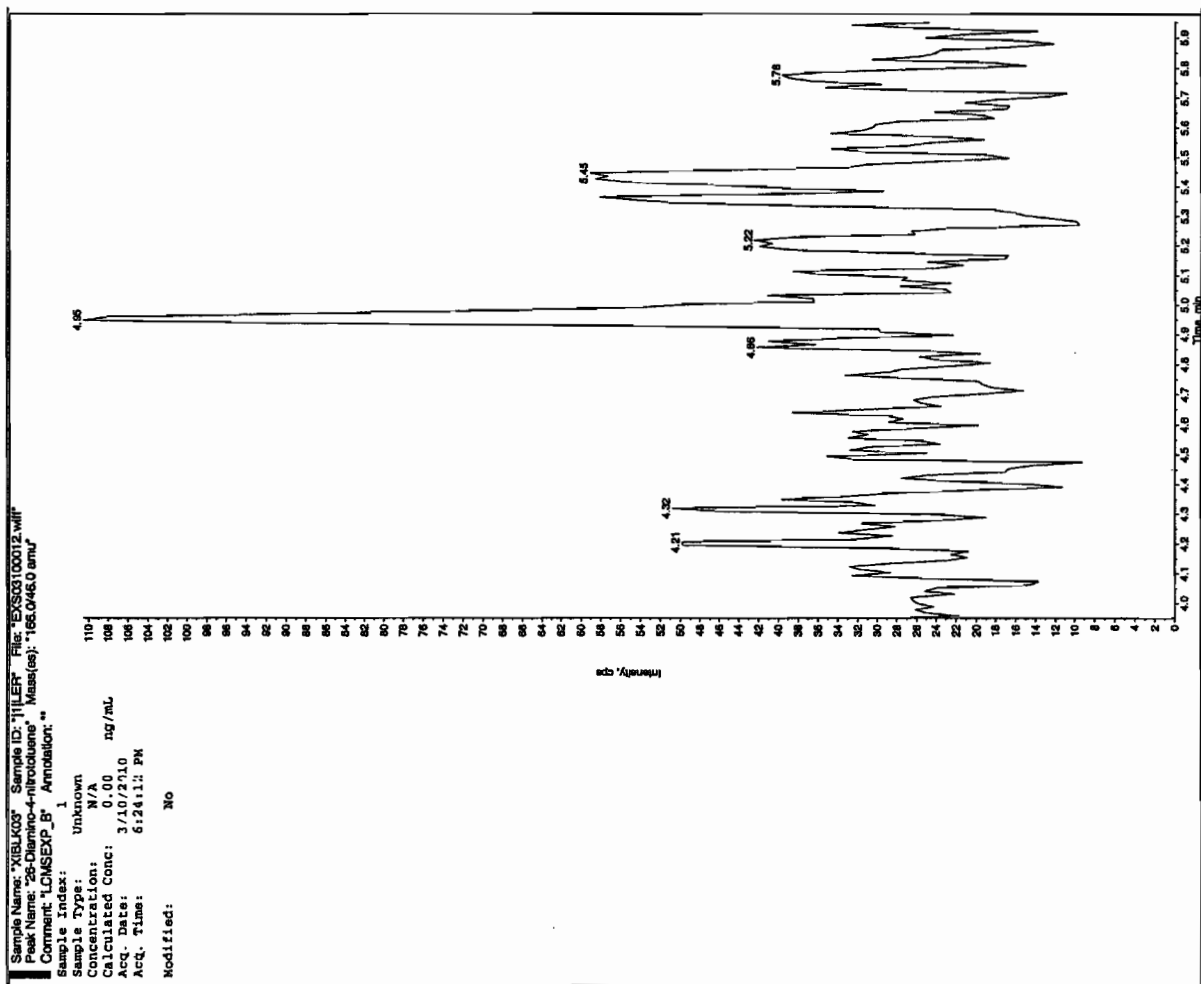
Calculated Conc: 0.00

Acq. Date: 3/10/2010

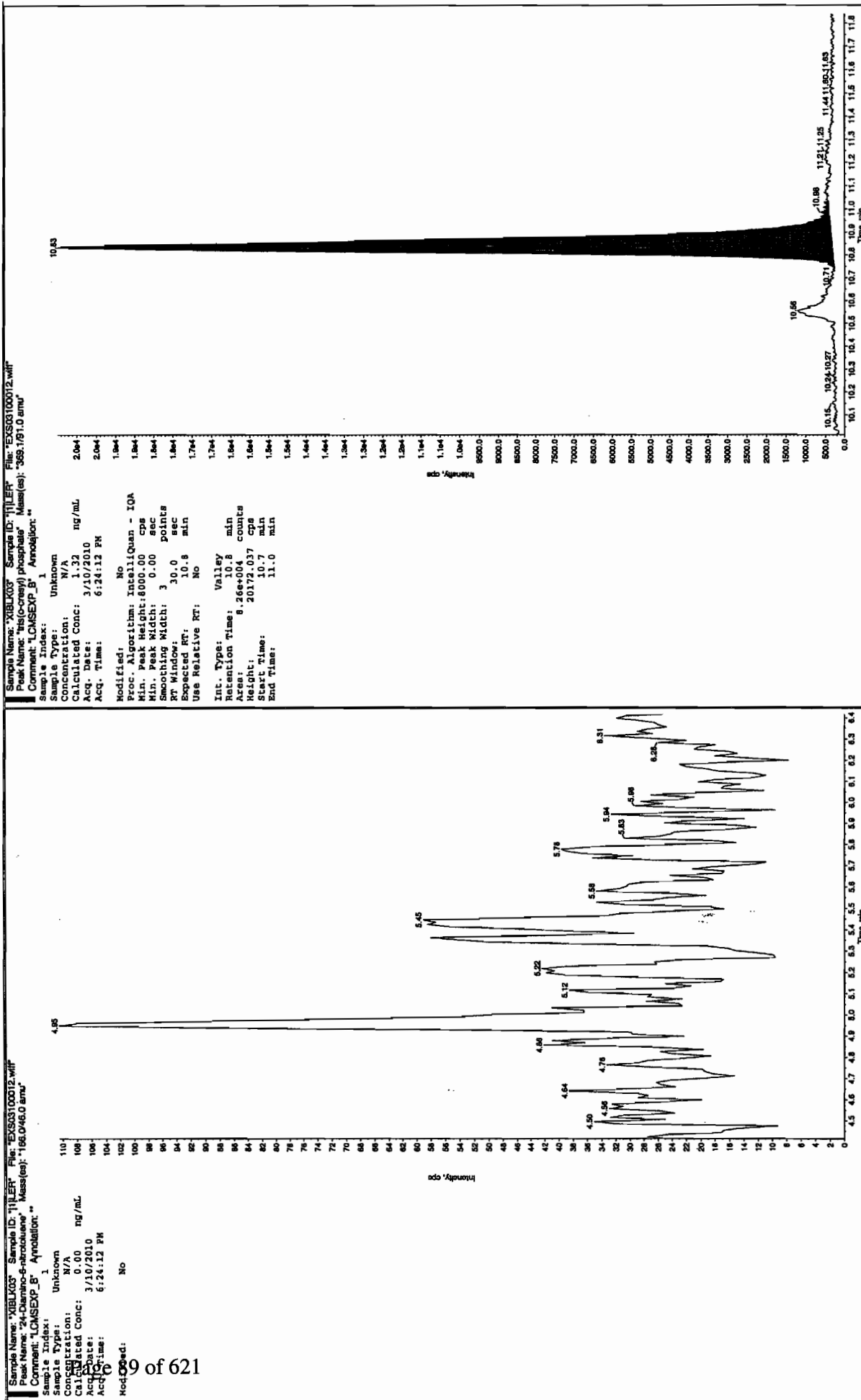
Acq. Time: 6:24:12 PM

Modified: No









**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK04

**Analysis Date:** 10-MAR-10 21:48

**GEL Data File:** EXS03100025.wiff

**Instrument ID:** LCMSMS

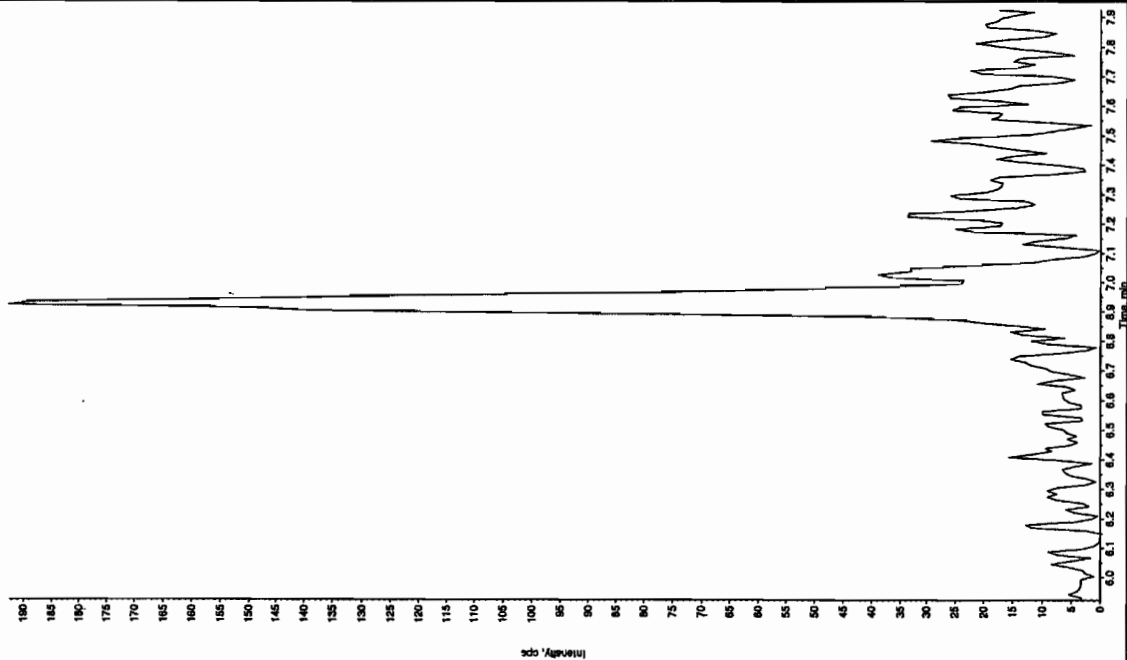
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.283
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Jan 3/13/10

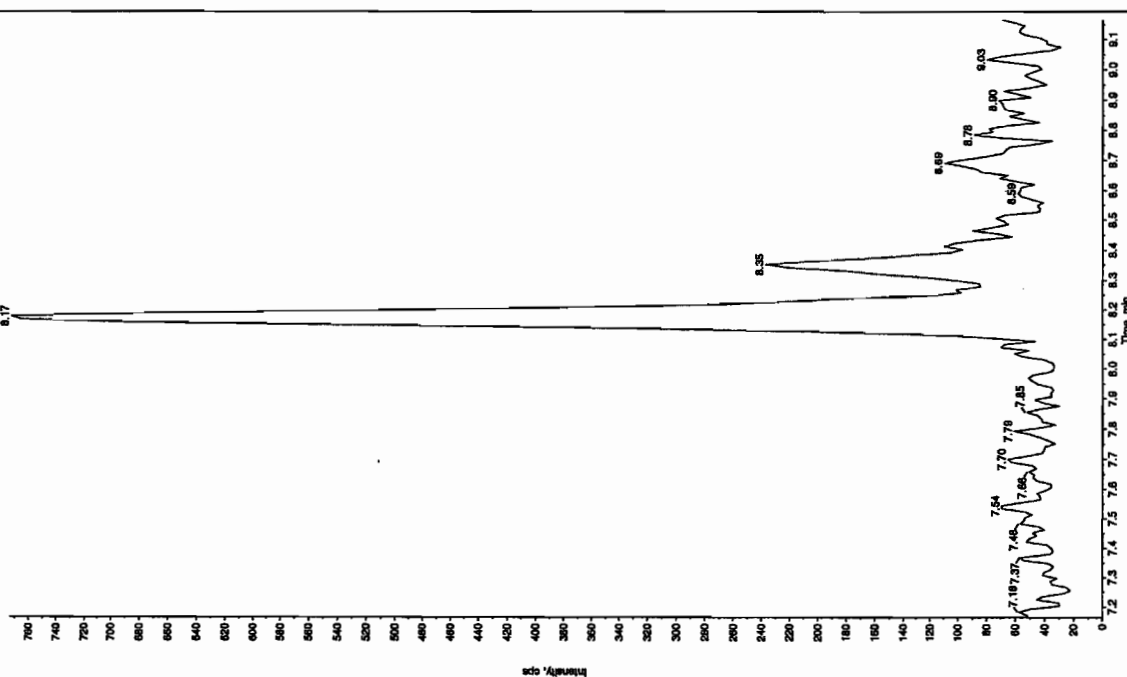
Sample Name: 'YIELX04' Sample ID: 'JILER' File: 'EX50310025.wif'  
 Peak Name: '257.204.9 amu' Mass(es): '182.040.0 amu'  
 Comment: 'LCMSXP\_B' Annotation: '1'

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 0.00  
 Acq. Date: 3/10/2010  
 Acq. Time: 9:48:18 PM  
 Modified: No



Sample Name: 'YIELX04' Sample ID: 'JILER' File: 'EX50310025.wif'  
 Peak Name: '257.204.9 amu' Mass(es): '182.040.0 amu'  
 Comment: 'LCMSXP\_B' Annotation: '1'

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 0.00 ng/mL  
 Calculated Conc: 0.00  
 Acq. Date: 3/10/2010  
 Acq. Time: 9:48:18 PM  
 Modified: No



Jan 03/15/10

Sample Name: "XIBLX04" Sample ID: "11LER" File: "EXS03100025.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

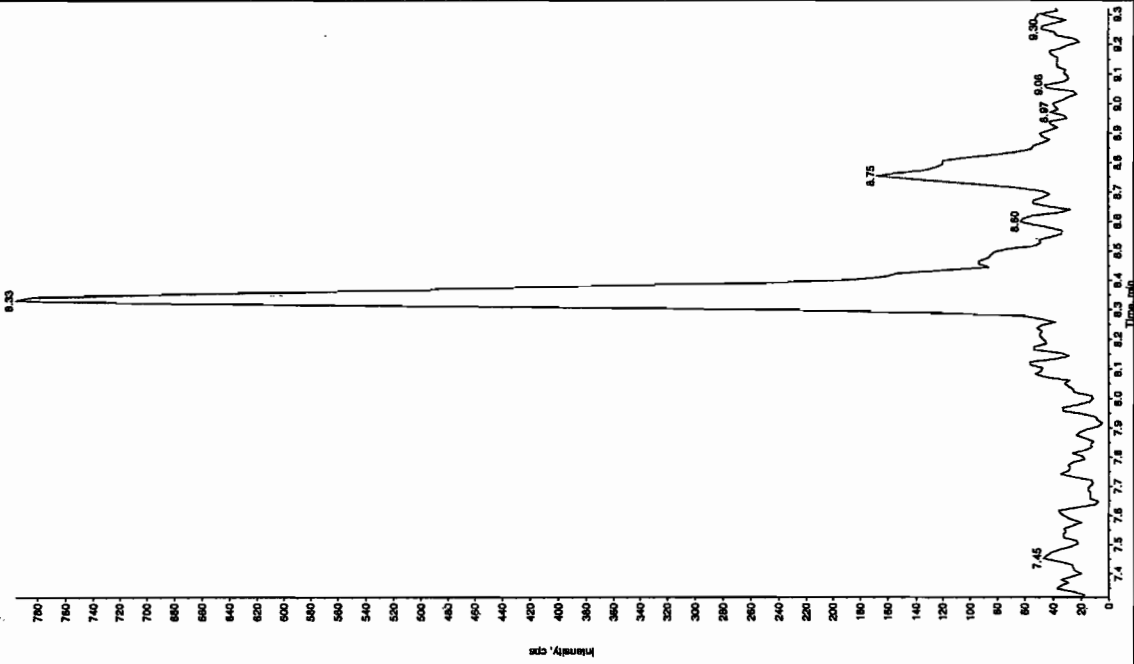
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/10/2010

Acq. Time: 9:48:18 PM

Modified: No



Sample Name: "XIBLX04" Sample ID: "11LER" File: "EXS03100025.wif"

Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "186.046.0 amu"

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

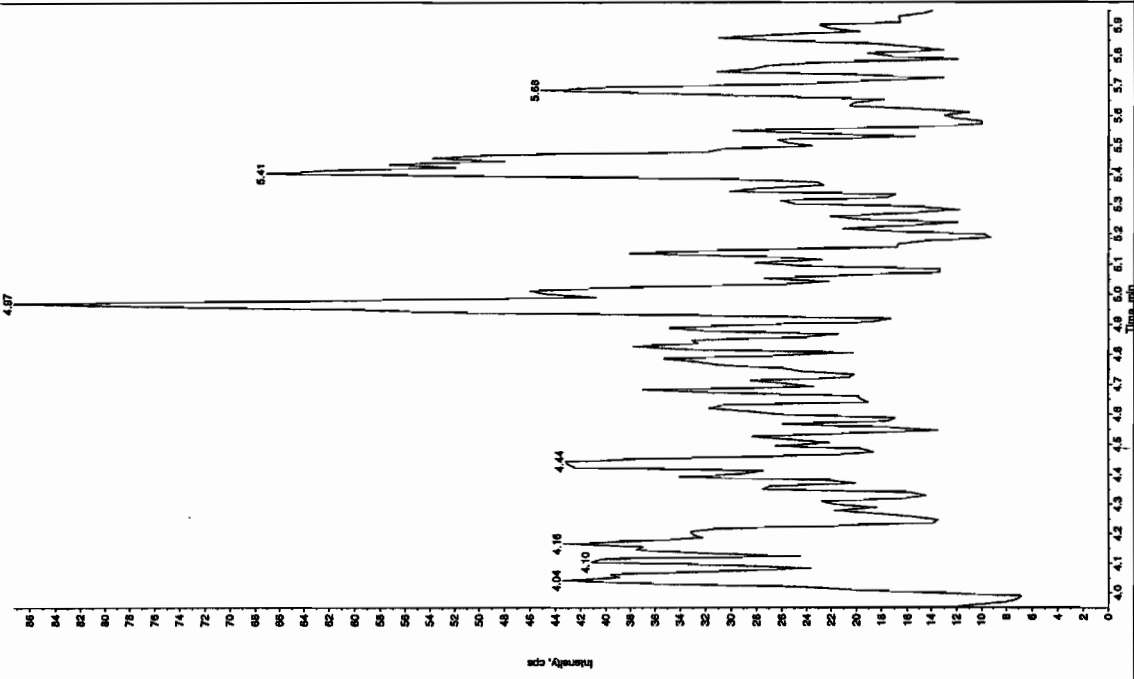
Concentration: N/A

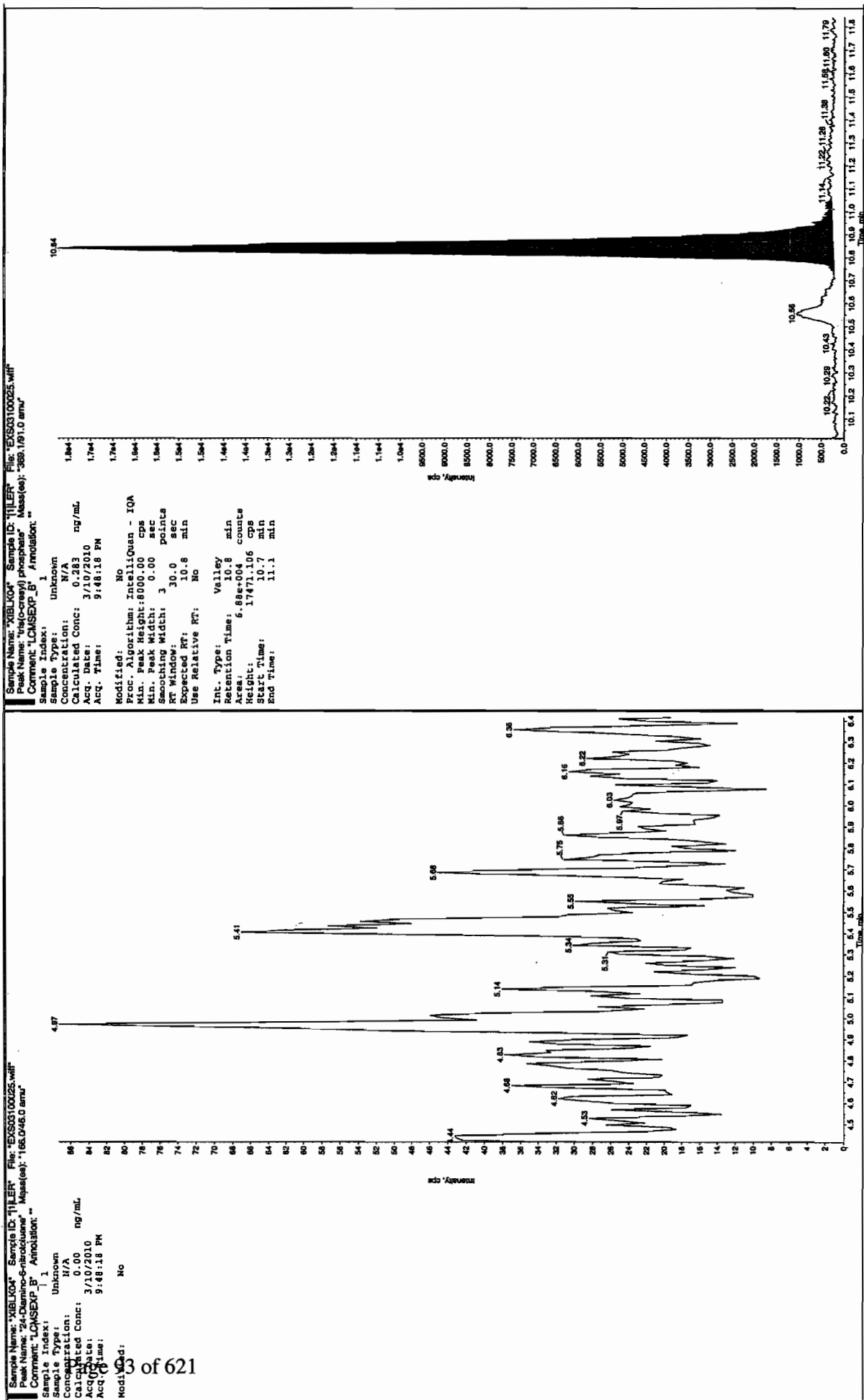
Calculated Conc: 0.00 ng/mL

Acq. Date: 3/10/2010

Acq. Time: 9:48:18 PM

Modified: No





Method 8321A-Modified LCMSMS#4

**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK05

**Analysis Date:** 11-MAR-10 01:12

**GEL Data File:** EXS03100038.wiff

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.104
TATB	0	0

den 3/13/10

Sample Name: "XBLK05" Sample ID: "HILRY" File: "EXS03100038.wif"

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

Comment: "LCMSXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

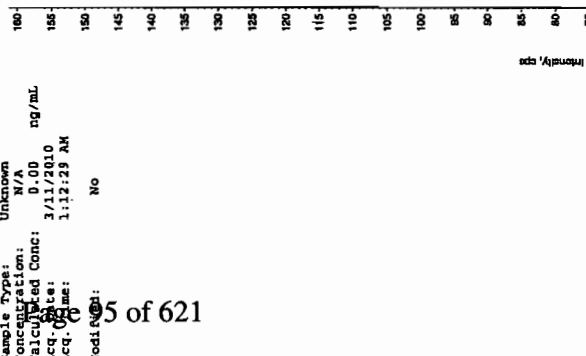
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 1:12:29 AM

Modified: No



Sample Name: "XBLK05" Sample ID: "HILRY" File: "EXS03100038.wif"

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

Comment: "LCMSXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

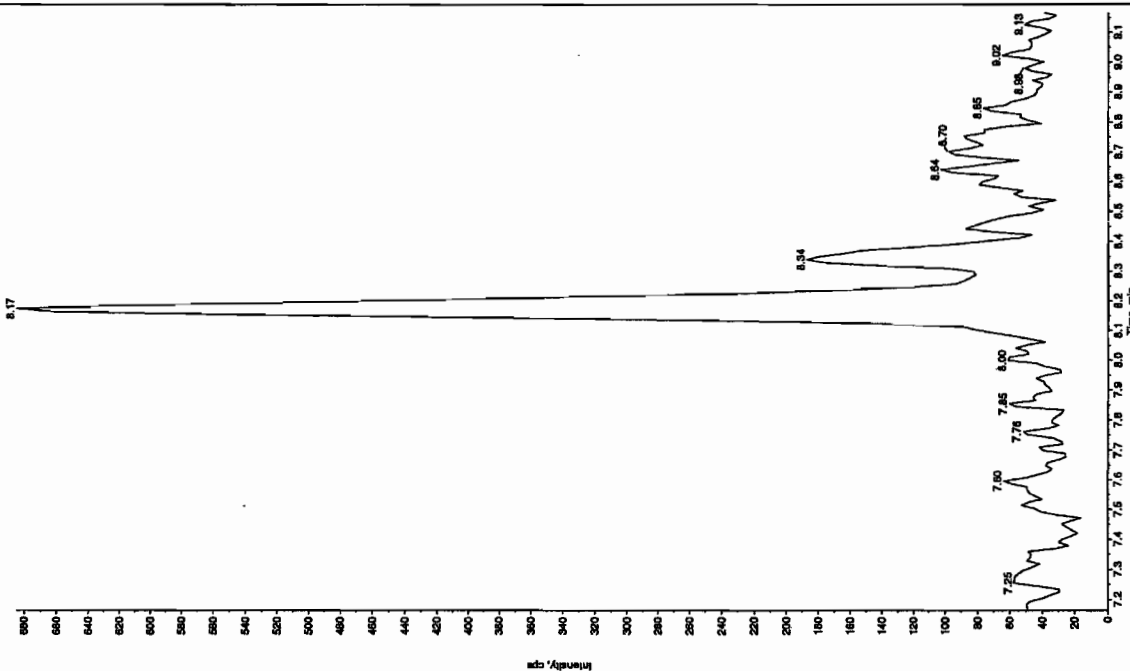
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 1:12:29 AM

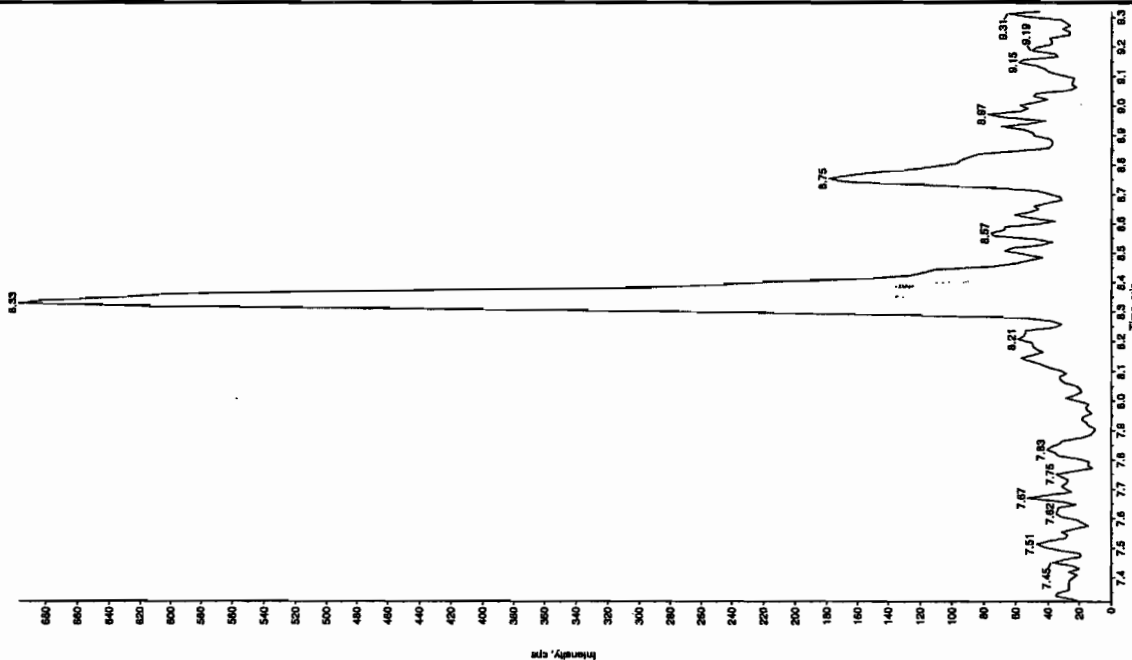
Modified: No



den 03/13/10

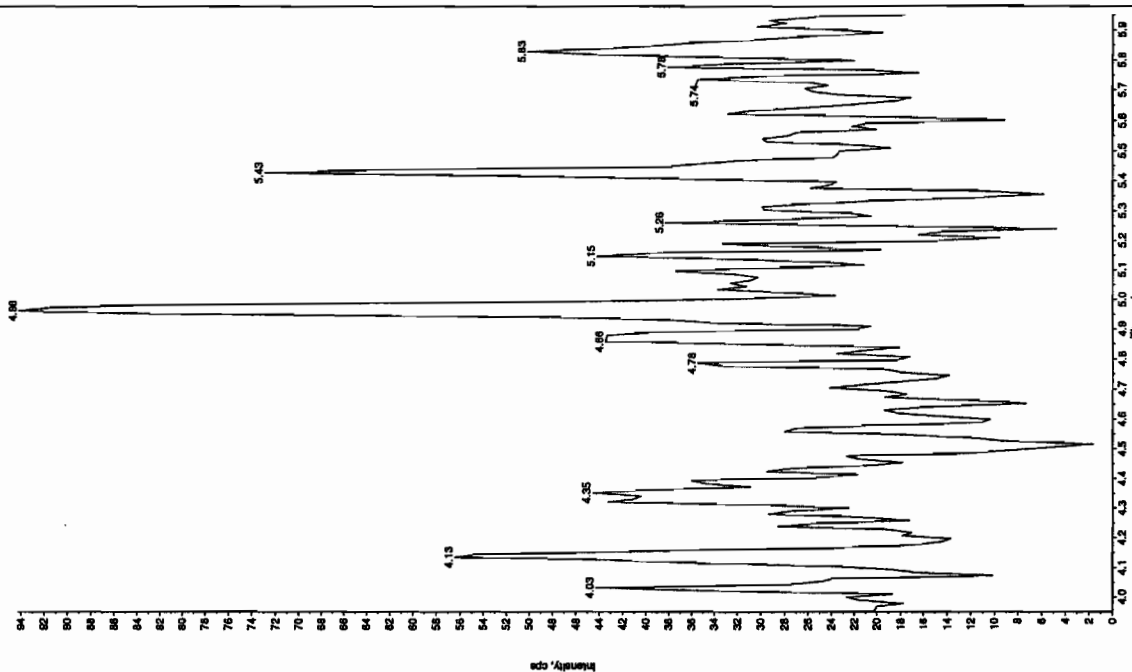
Sample Name: "XBLX05" Sample ID: "111ER" File: "EX503100038.wif"  
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/11/2010  
Acq. Time: 1:12:29 AM  
Modified: No



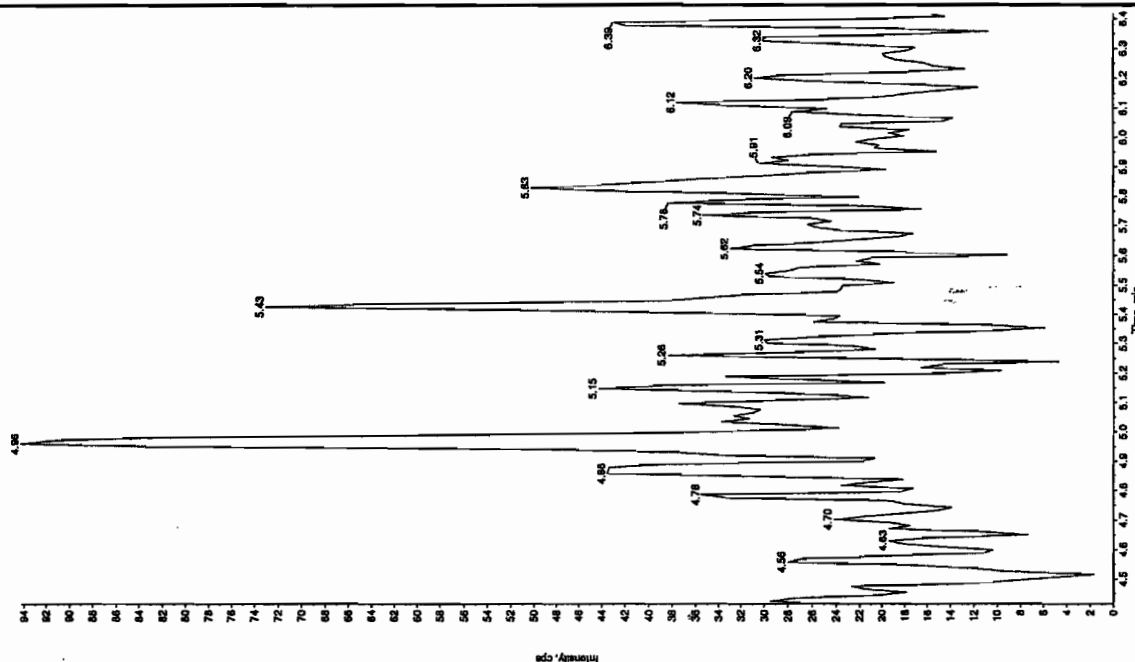
Sample Name: "XBLX05" Sample ID: "111ER" File: "EX503100038.wif"  
Peak Name: "25-Dinitro-4-nitrotoluene" Mass(es): "186.0/166.0 amu"  
Comment: "LCMSXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/11/2010  
Acq. Time: 1:12:29 AM  
Modified: No

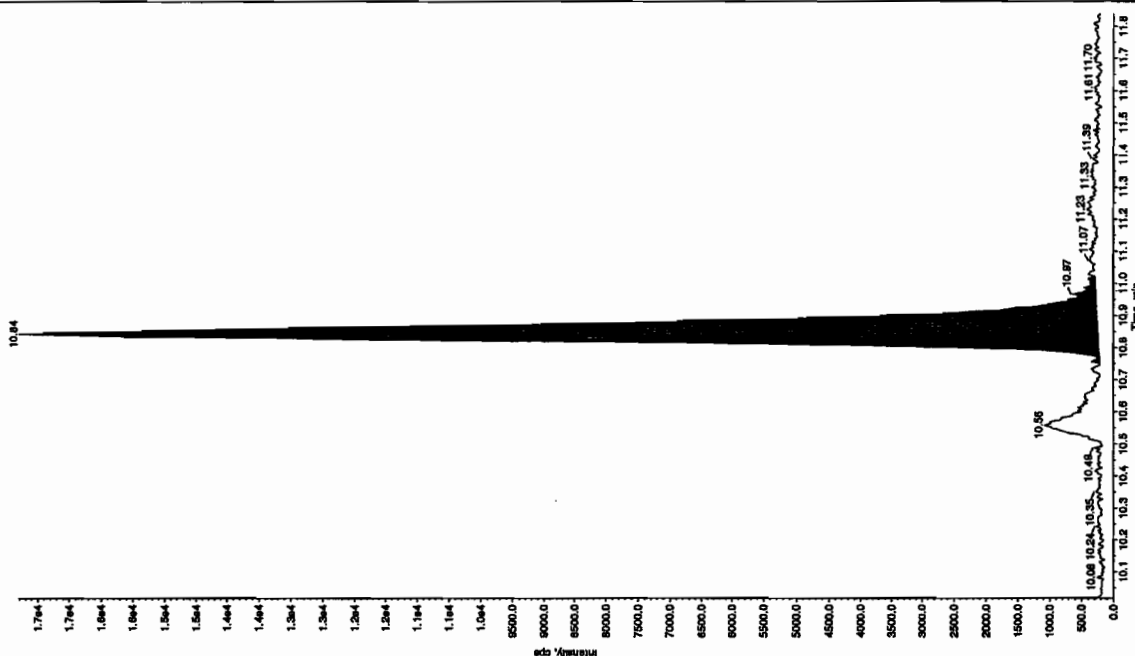




Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	3/11/2010	
Acq. Time:	1:12:29 AM	
Modified:	No	



Sample Name: "XIBLK05" Sample ID: "JILER" File: "EXS03100038.wiff"  
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "366.1/91.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

[illegible]

**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK06

**Analysis Date:** 11-MAR-10 03:02

**GEL Data File:** EXS03100045.wiff

**Instrument ID:** LCMSMS

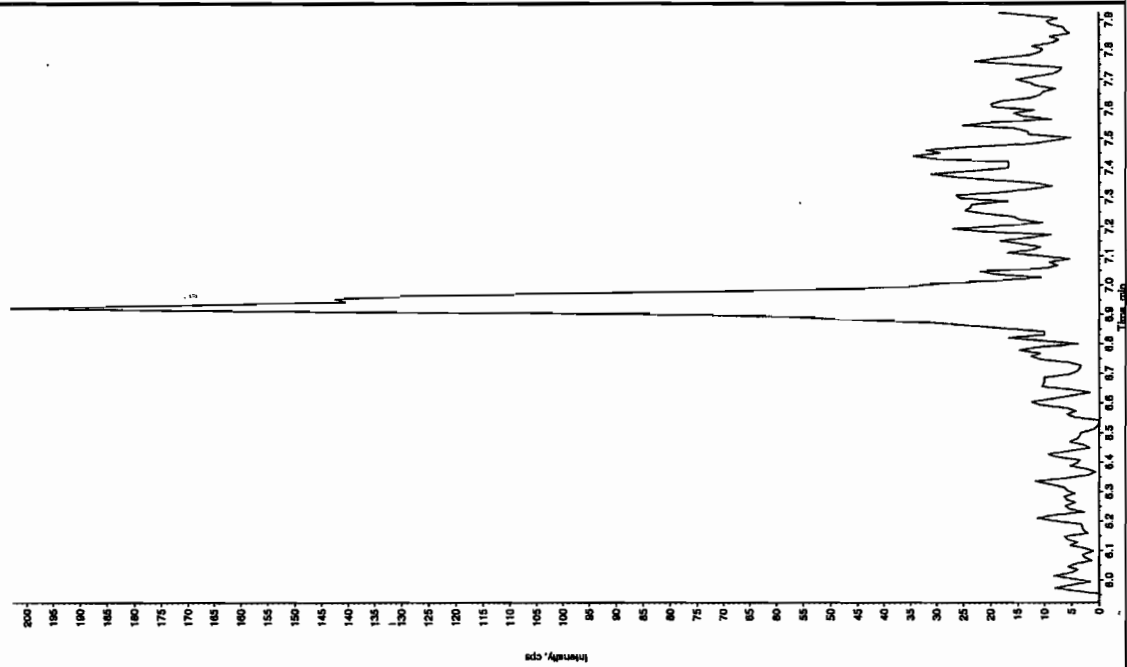
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.271
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/14/10

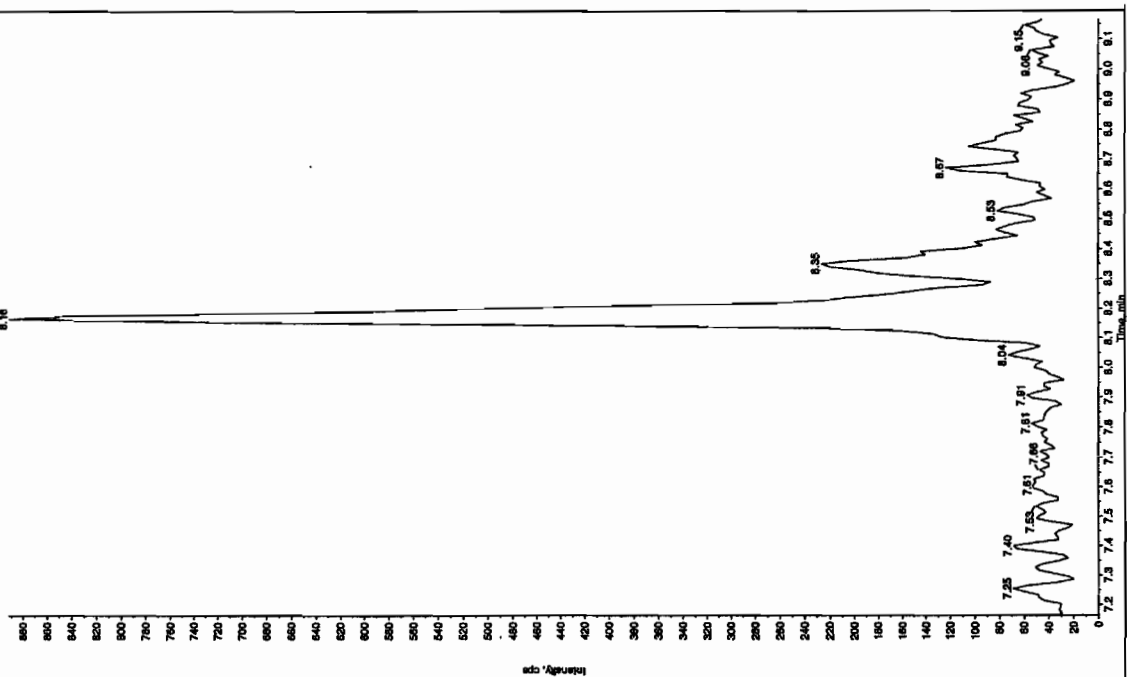
Sample Name: "XIBLK06" Sample ID: "JILLER" File: "EXS03100045.wif"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:02:28 AM  
Modified: No



Sample Name: "XIBLK06" Sample ID: "JILLER" File: "EXS03100045.wif"  
Peak Name: "3S-Contaminant" Mass(es): "162.0450 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

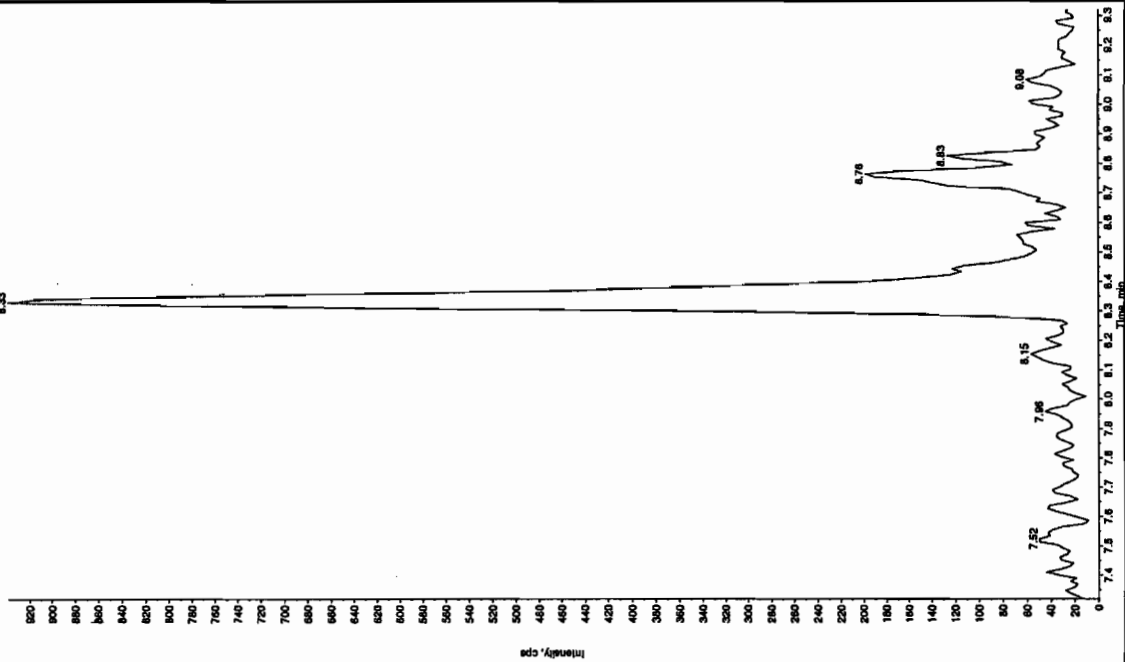
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:02:28 AM  
Modified: No



Run 03/13/10

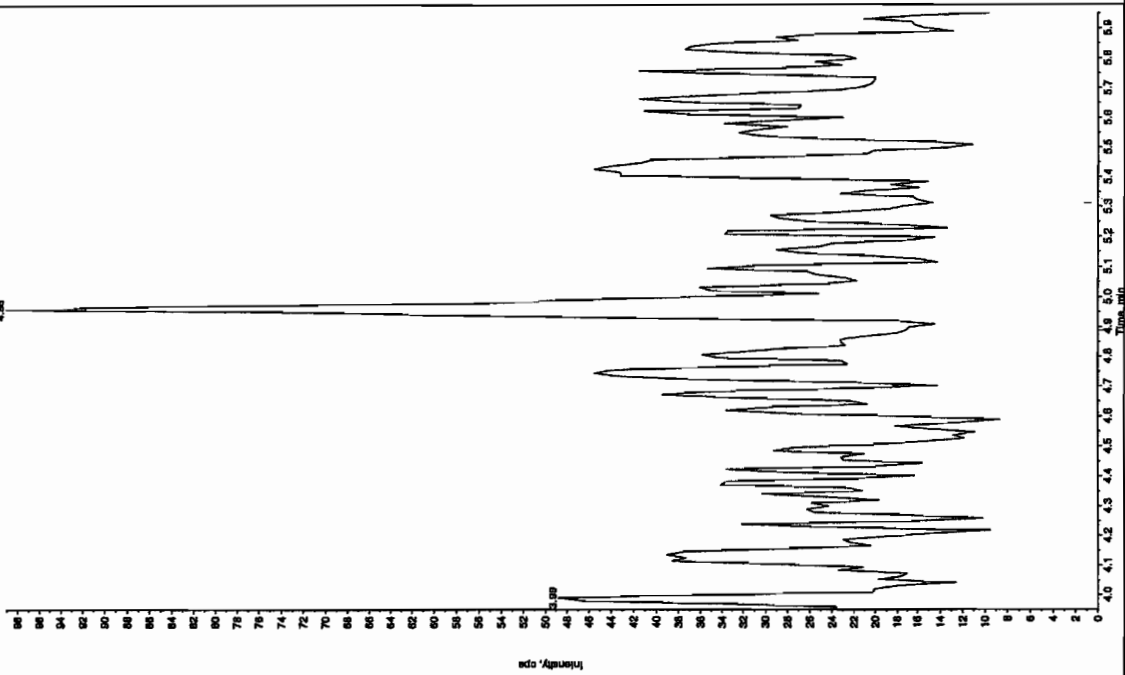
Sample Name: "XBL1005" Sample ID: "111111" File: "EX503100045.wiff"  
Peak Name: "34-Diamino-4-nitrobenzene" Mass(es): "182.1/151.2 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:02:28 AM  
Modified: No

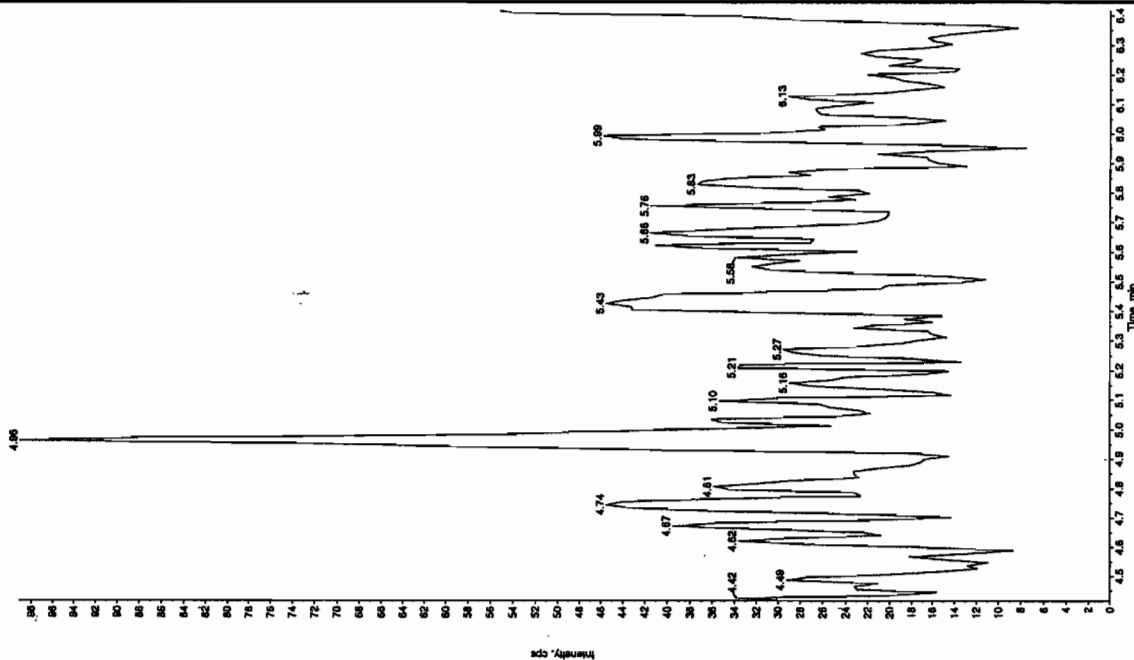


Sample Name: "XBL1005" Sample ID: "111111" File: "EX503100045.wiff"  
Peak Name: "26-Diamino-4-nitrobenzene" Mass(es): "156.0/46.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

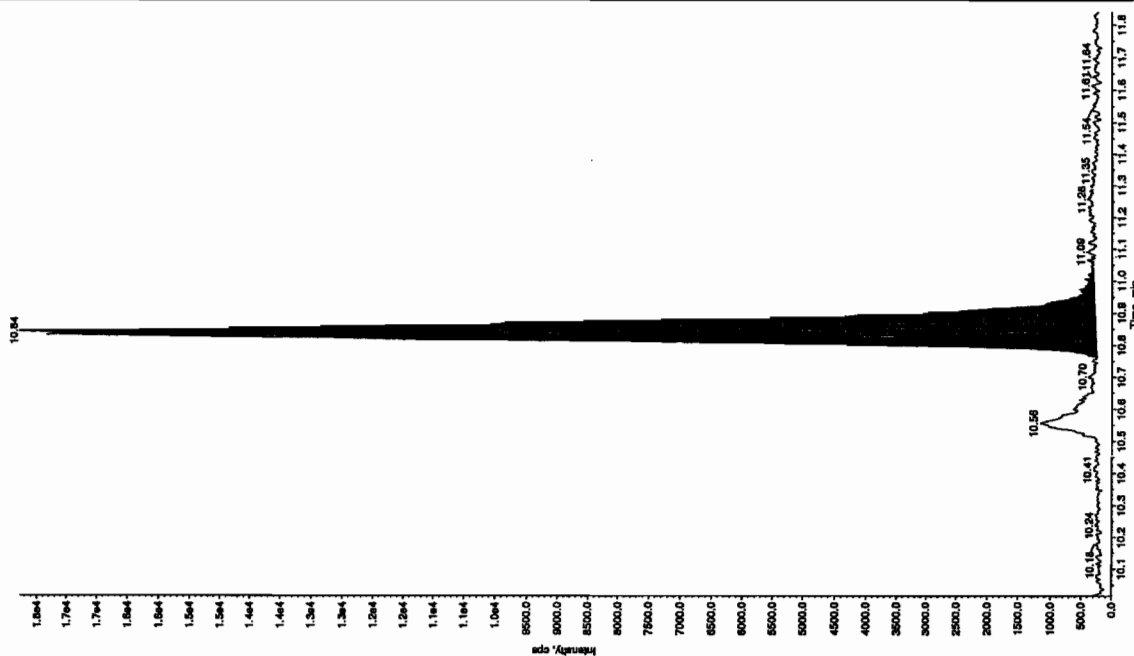
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:02:28 AM  
Modified: No



Sample Name: "XIBLK05" Sample ID: "111LRY" File: "EX503100045.wif"  
 Peak Name: "24-Diamino-6-nitrocholine" 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: 3/11/2010  
 Acq. Time: 3:02:28 AM  
 Modified: No  
 Proc. Algorithm: InterpolQuant - IQA  
 Min. Peak Height: 8000 cps  
 Min. Peak Width: 30.00 sec  
 Smoothing Width: 30.00 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 6.86e+004 counts  
 Height: 17511.333 cps  
 Start Time: 10.8 min  
 End Time: 11.0 min



Sample Name: "XIBLK05" Sample ID: "111LRY" File: "EX503100045.wif"  
 Peak Name: "bis(o-cresyl) phosphate" Mass(es): "388.181.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""  
 Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.271 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 3:02:28 AM  
 Modified: No  
 Proc. Algorithm: InterpolQuant - IQA  
 Min. Peak Height: 8000 cps  
 Min. Peak Width: 30.00 sec  
 Smoothing Width: 30.00 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 6.86e+004 counts  
 Height: 17511.333 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):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK07

**Analysis Date:** 11-MAR-10 05:55

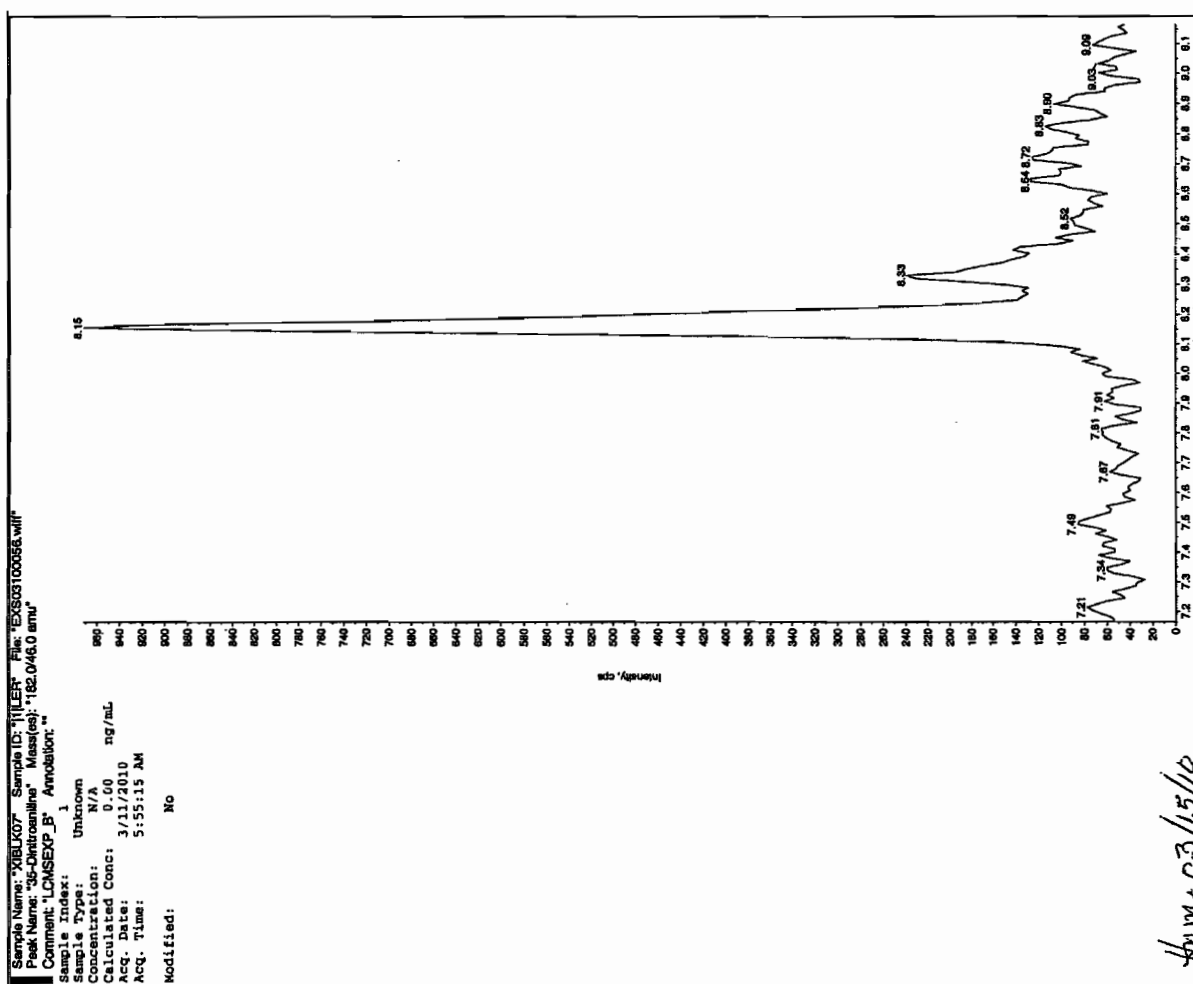
**GEL Data File:** EXS03100056.wiff

**Instrument ID:** LCMSMS

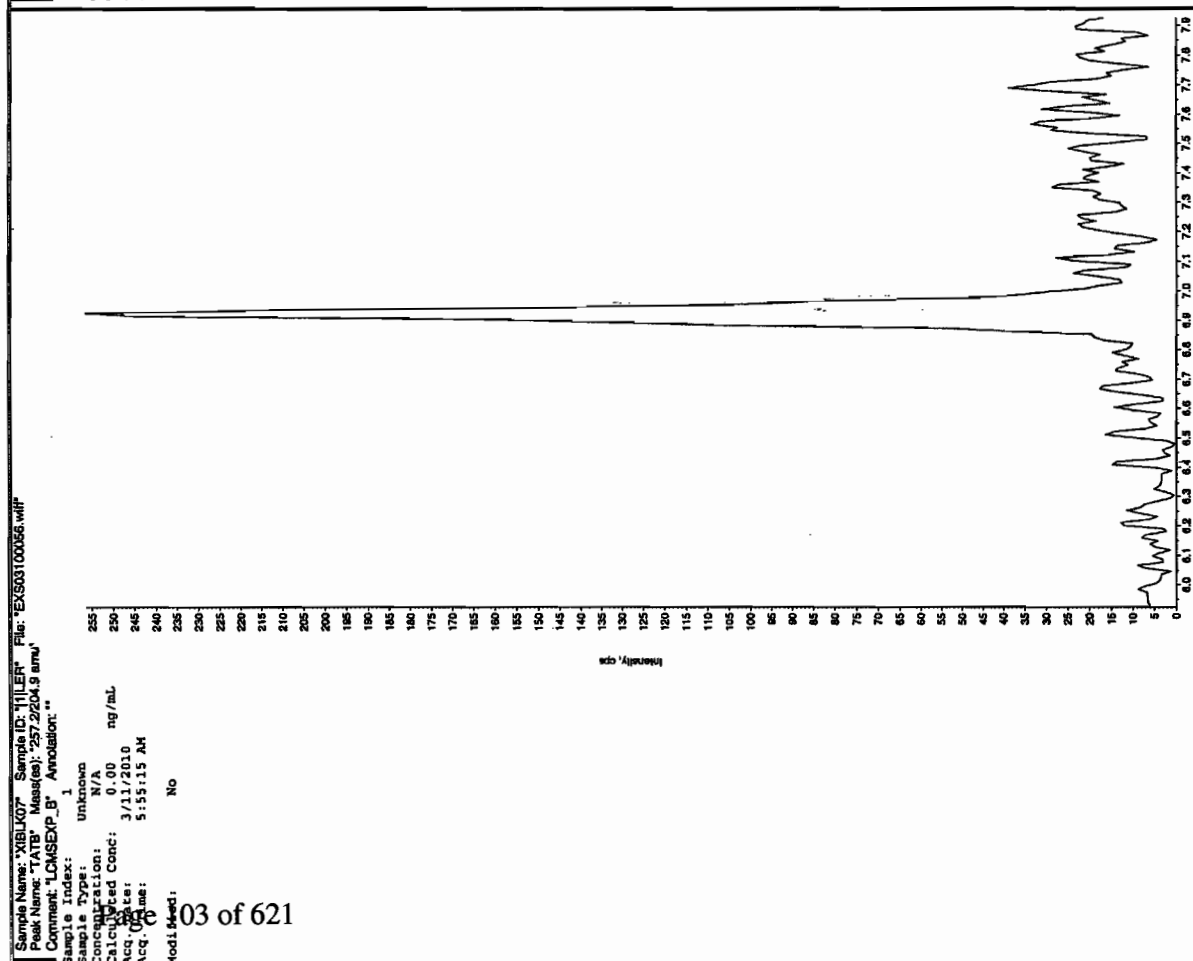
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0
TATB	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.586

len 3/14/10



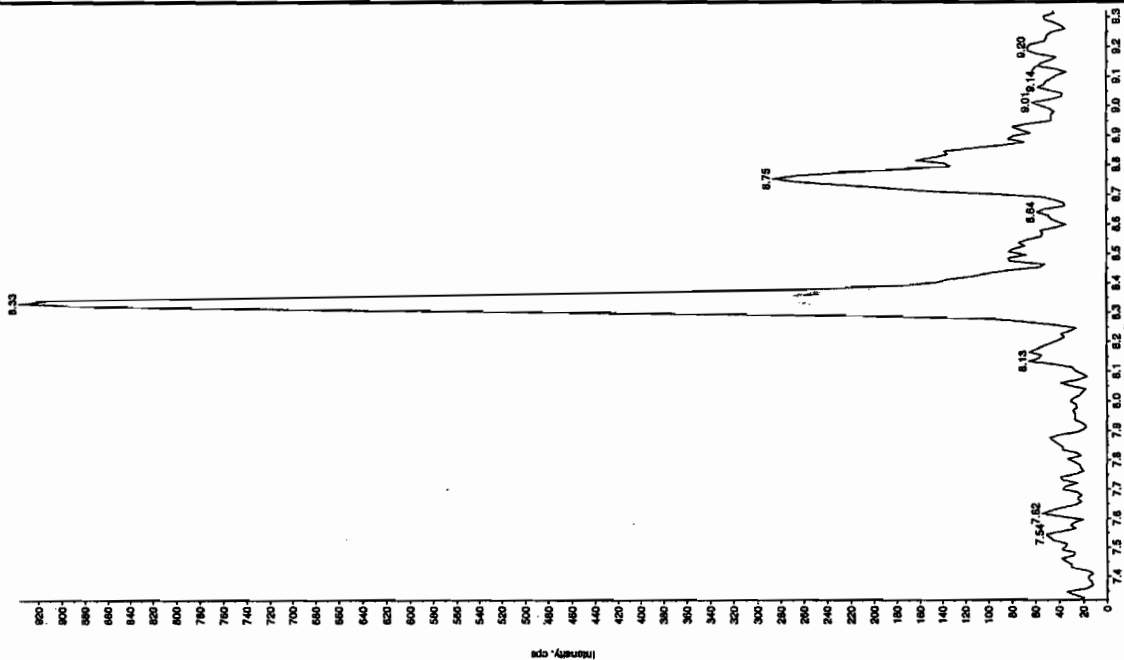
4/11/10 03/15/10



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

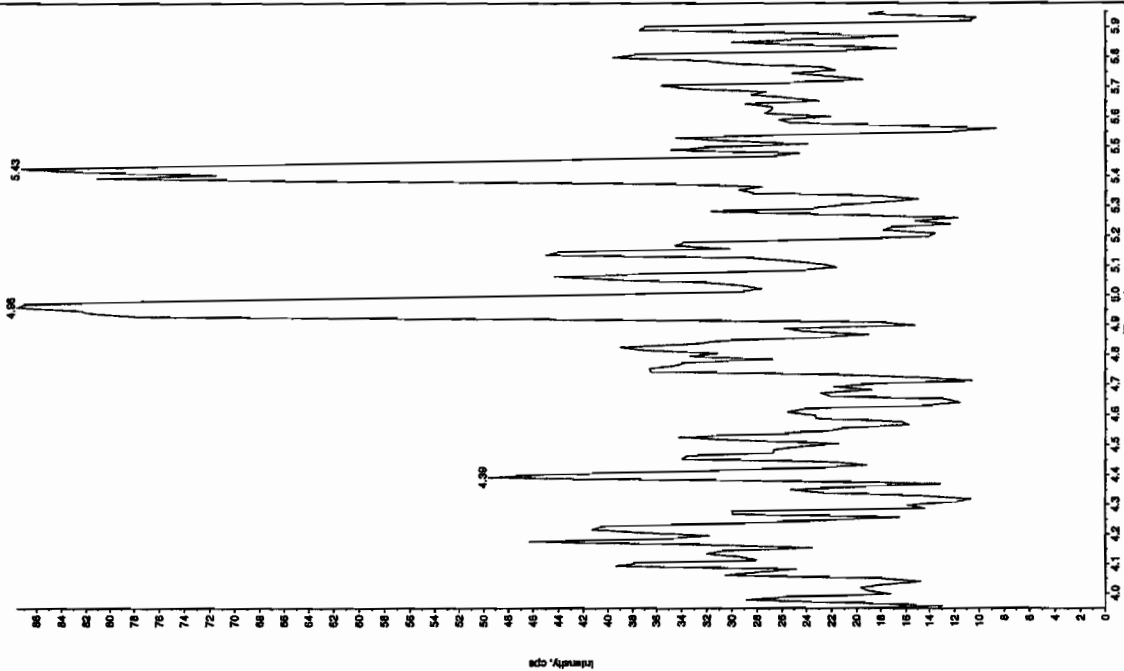
Sample Name: "XBLK07" Sample ID: "11LER" File: "EX03010056.wif"  
Peak Name: "34-Dinitrobenzene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 5:55:15 AM  
Modified: No



Sample Name: "XBLK07" Sample ID: "11LER" File: "EX03010056.wif"  
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.0/148.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3/11/2010 ng/mL  
Acq. Date: 5:55:15 AM  
Acq. Time: 5:55:15 AM  
Modified: No

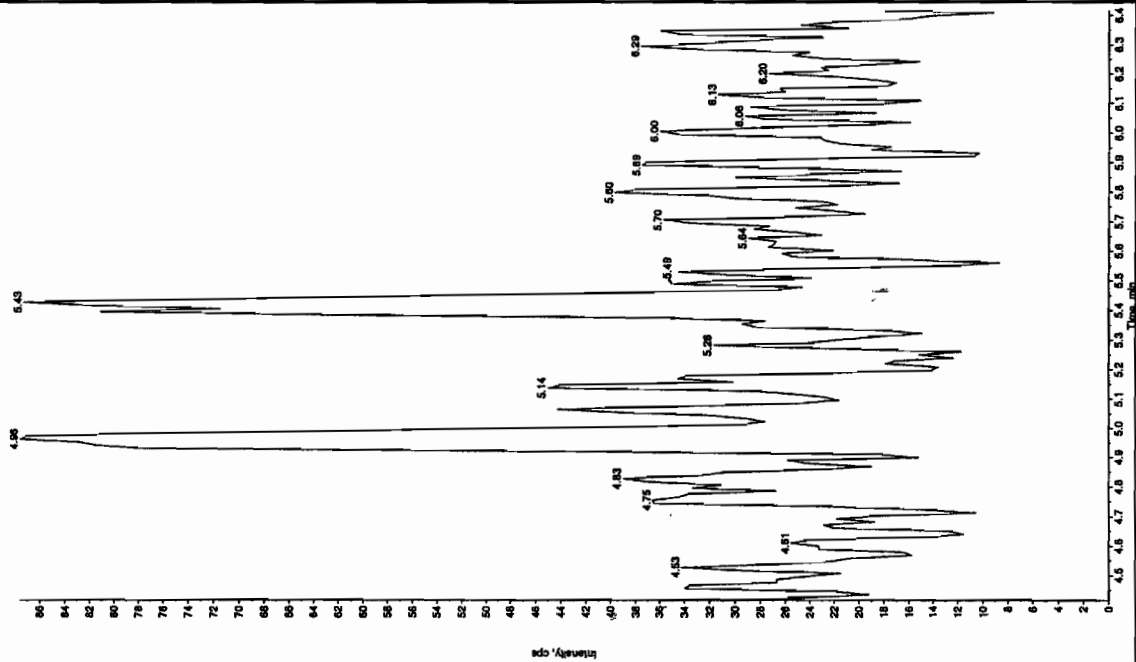




Sample Name: "XBLK07" Sample ID: "111ER" File: "EX503100056.wiff"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "186.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

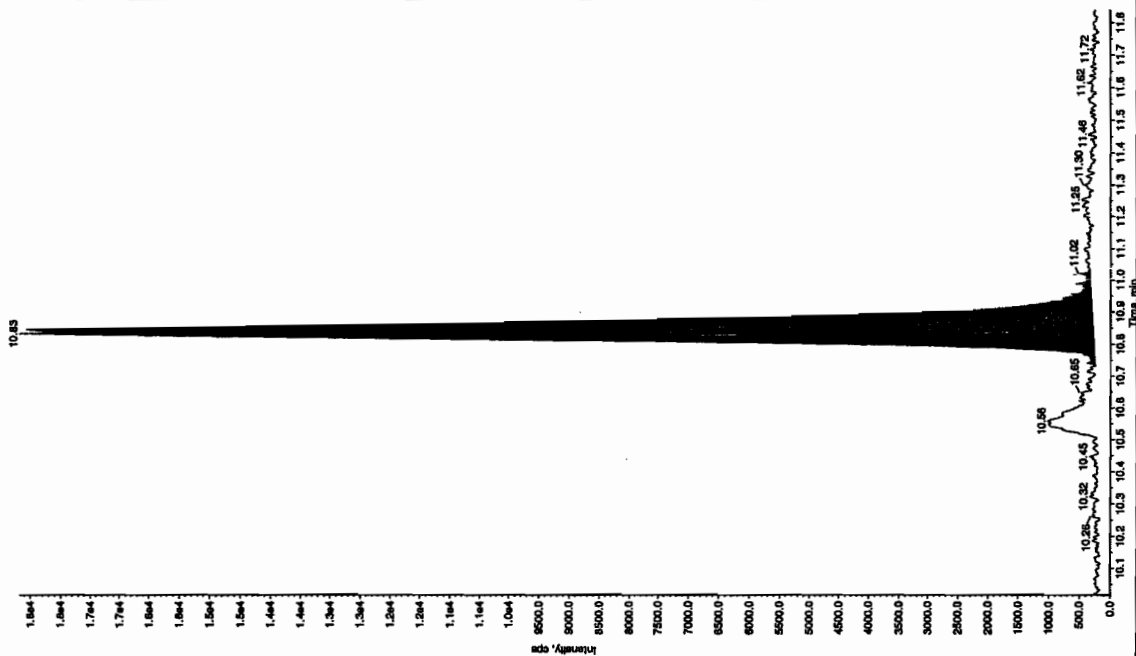
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 5:55:15 AM  
Modified: No

Modi Lead:



Sample Name: "XBLK07" Sample ID: "111ER" File: "EX503100056.wiff"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.586 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 5:55:15 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 3.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 7.28e+004 counts  
Height: 17901.289 cps  
Start Time: 10.7 min  
End Time: 11.0 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK08

**Analysis Date:** 11-MAR-10 08:48

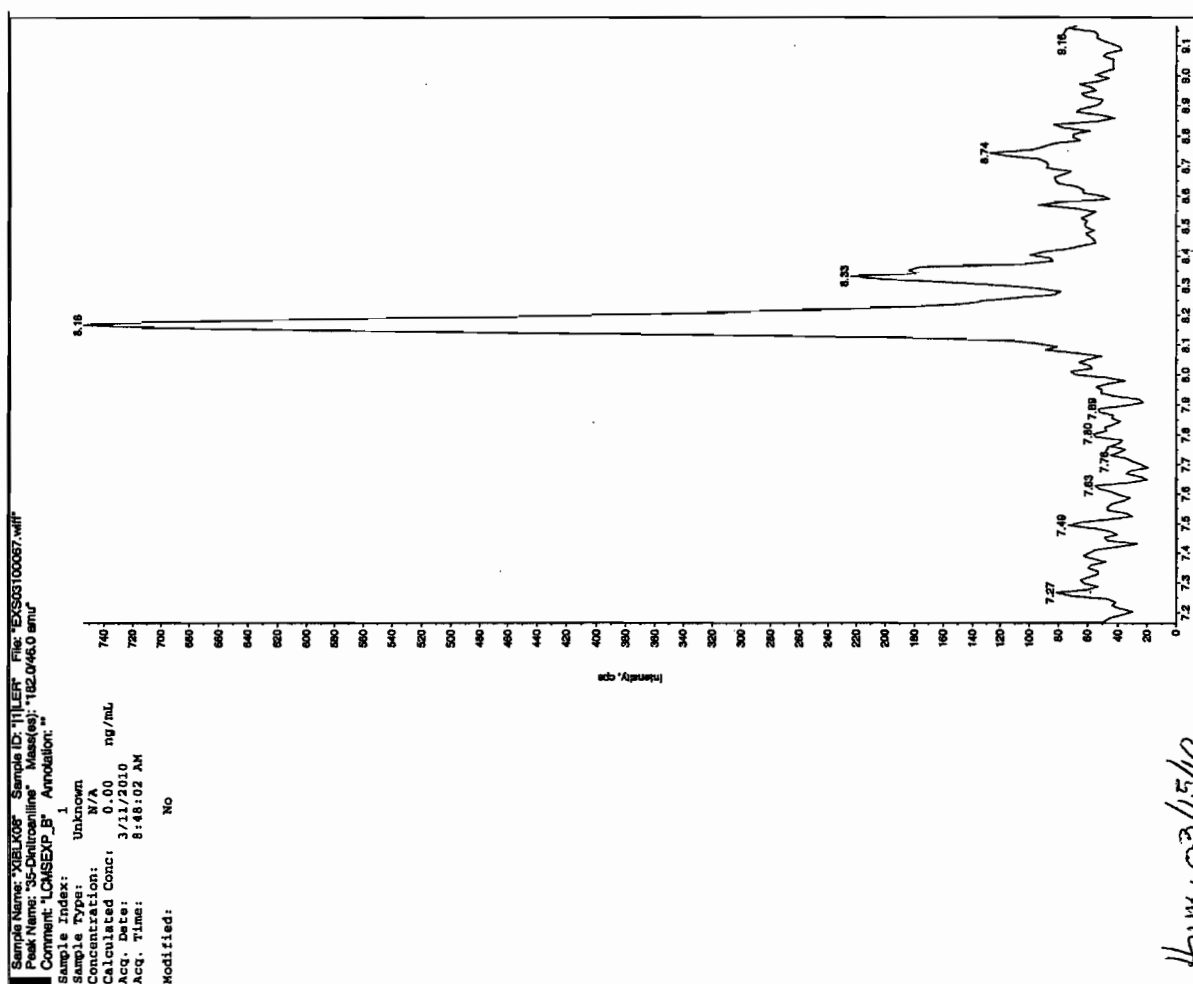
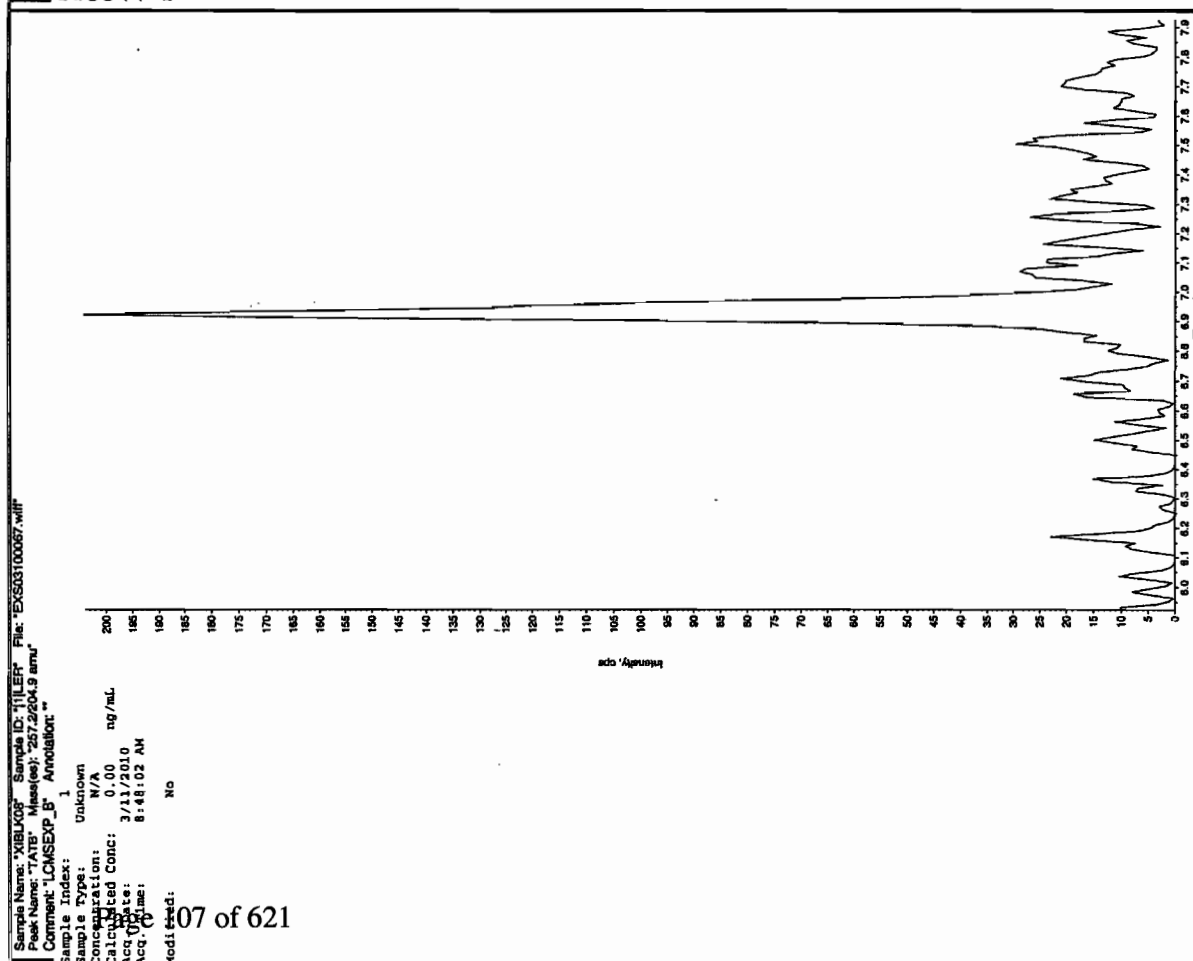
**GEL Data File:** EXS03100067.wiff

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.418
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

for 3/14/10

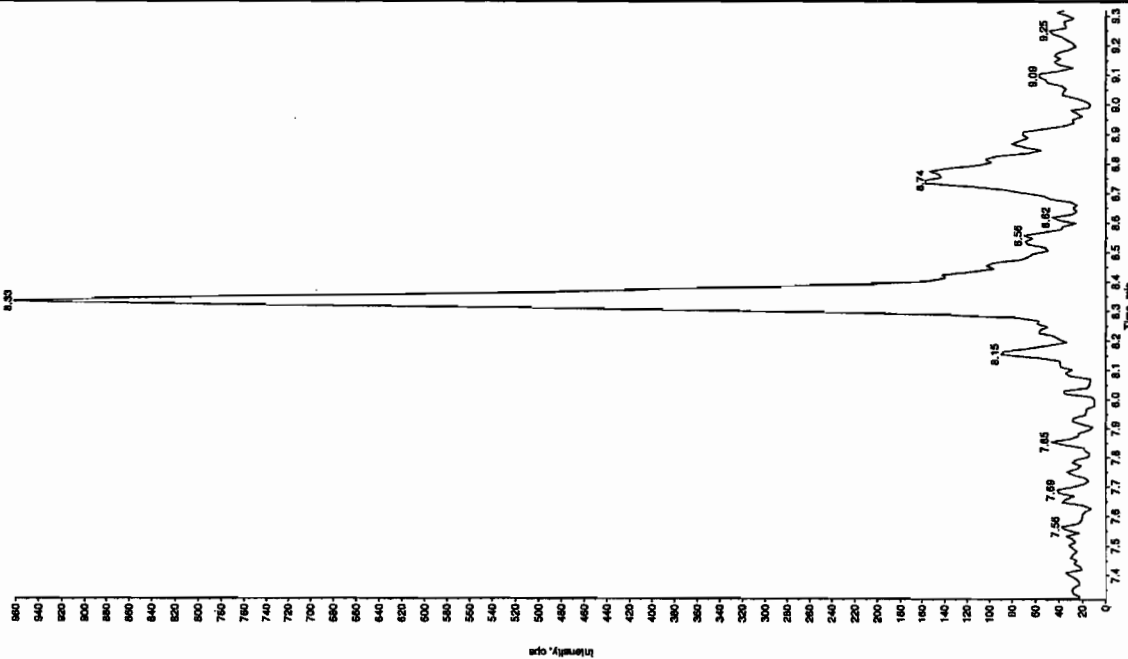


for 3/15/10

Sample Name: "XIBLK08" Sample ID: "111ER" File: "EX903100057.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "162.17151.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

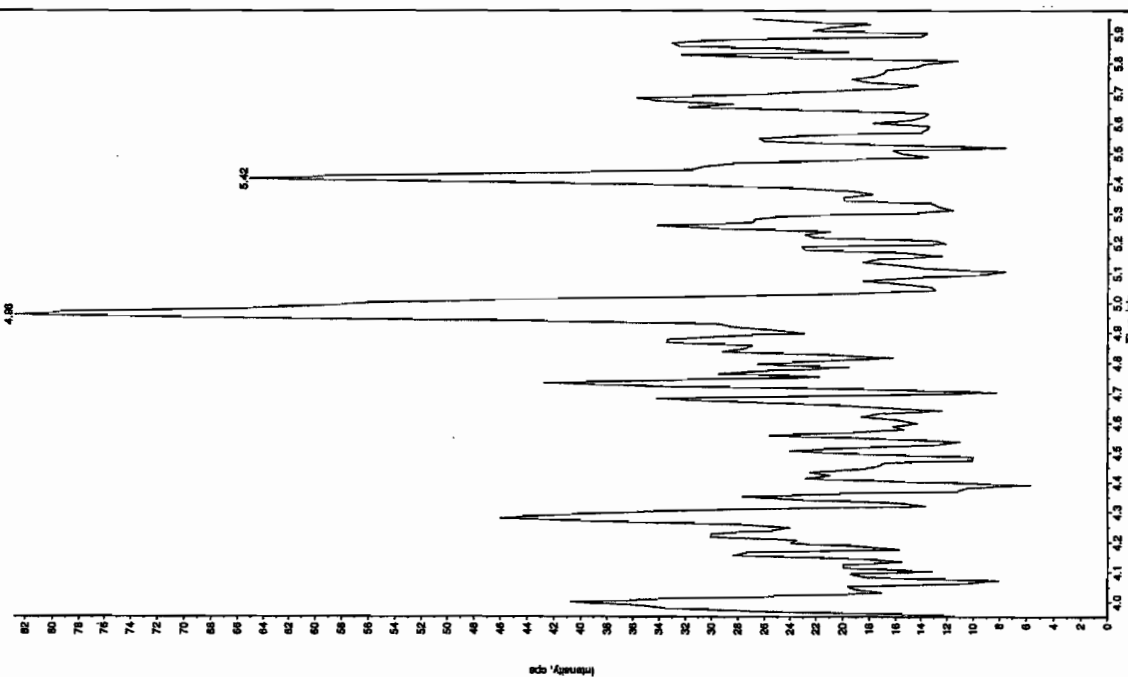
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:48:02 AM  
Modified: No



Sample Name: "XIBLK08" Sample ID: "111ER" File: "EX903100057.wif"  
Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

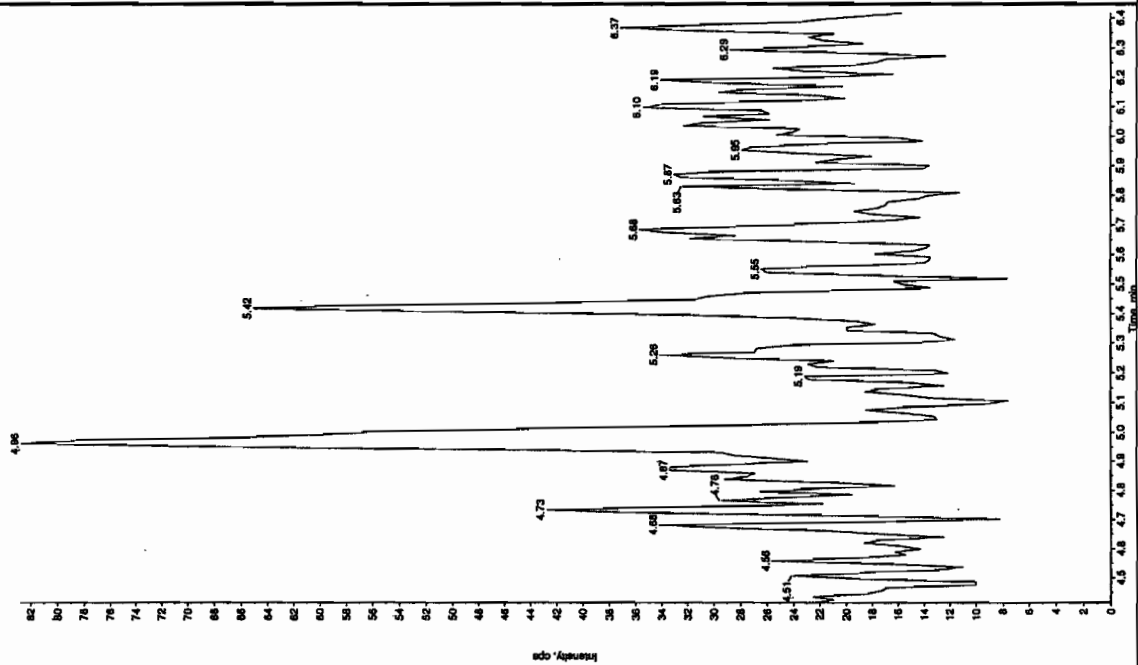
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:48:02 AM  
Modified: No



Sample Name: "XBLK08" Sample ID: "TILER" File: "EX503100057.wiff"  
Peak Name: "24-Diamino-6-nitrothiophene" 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: 3/11/2010  
Acq. Time: 8:48:02 AM  
Mod. File: C

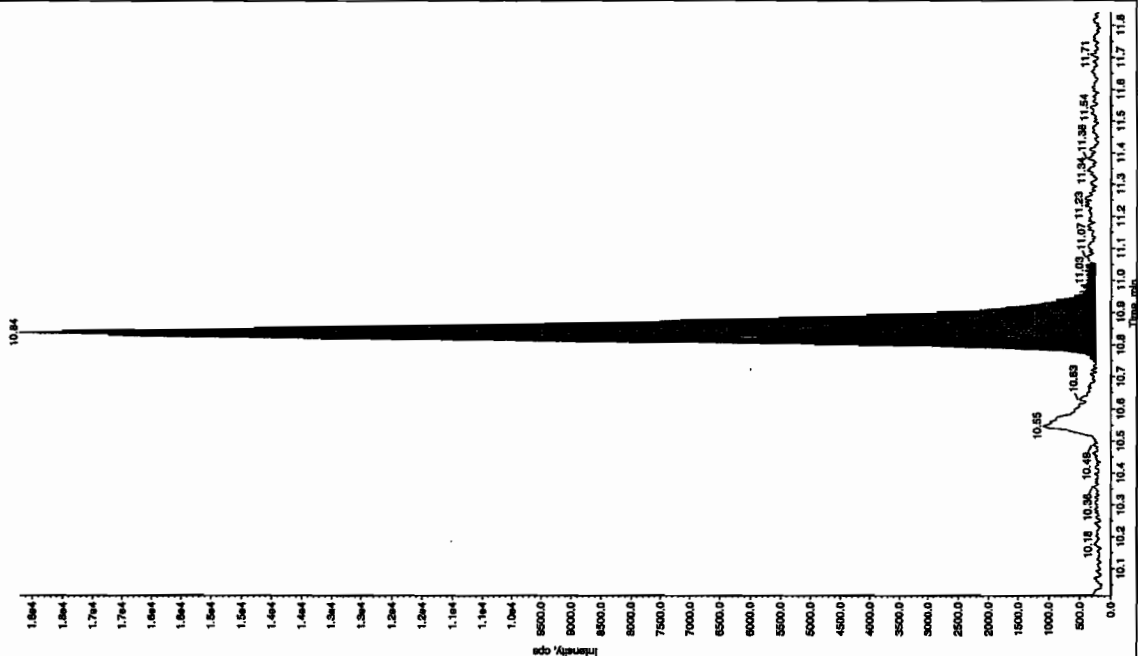
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Sample Name: "XBLK08" Sample ID: "TILER" File: "EX503100057.wiff"  
Peak Name: "tri-(o-cresyl) phosphite" Mass(es): "359.161.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.418 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:48:02 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 7.06e+004 counts  
Height: 17952.213 cps  
Start Time: 10.7 min  
End Time: 11.1 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK09

**Analysis Date:** 11-MAR-10 12:12

**GEL Data File:** EXS03100080.wiff

**Instrument ID:** LCMSMS

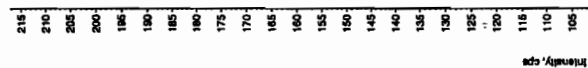
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.467
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

det 3/14/10

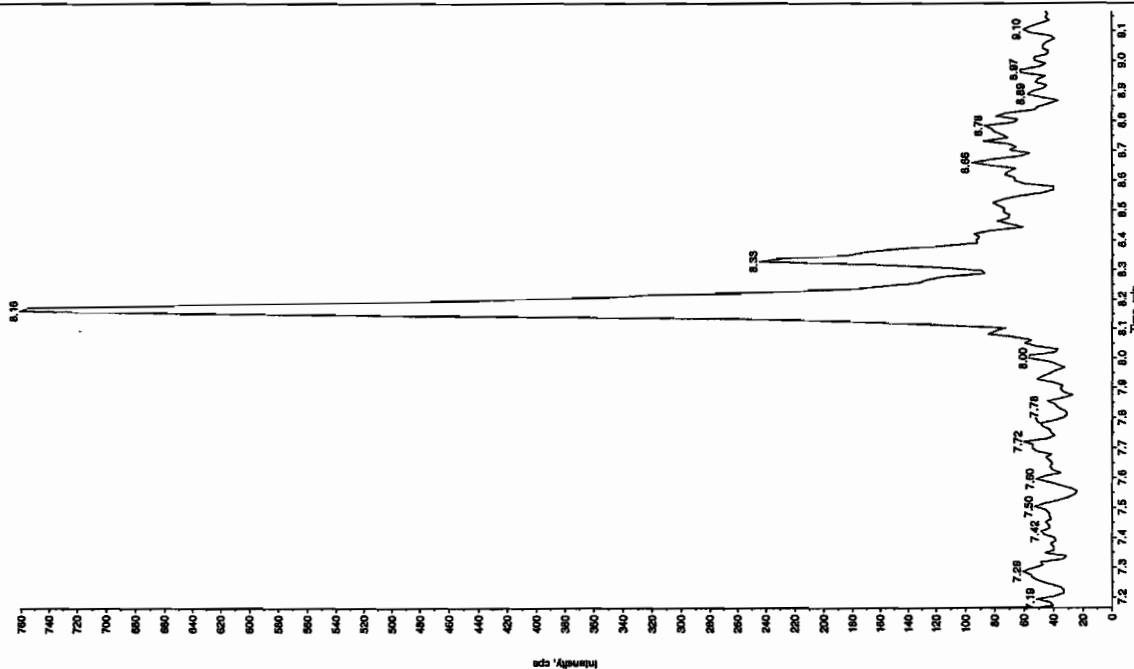
Sample Name: "XBLK09" Sample ID: "J1LER" File: "EXS03100080.wiff"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 PM  
Modified: No



Sample Name: "XBLK09" Sample ID: "J1LER" File: "EXS03100080.wiff"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ug/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 PM  
Modified: No

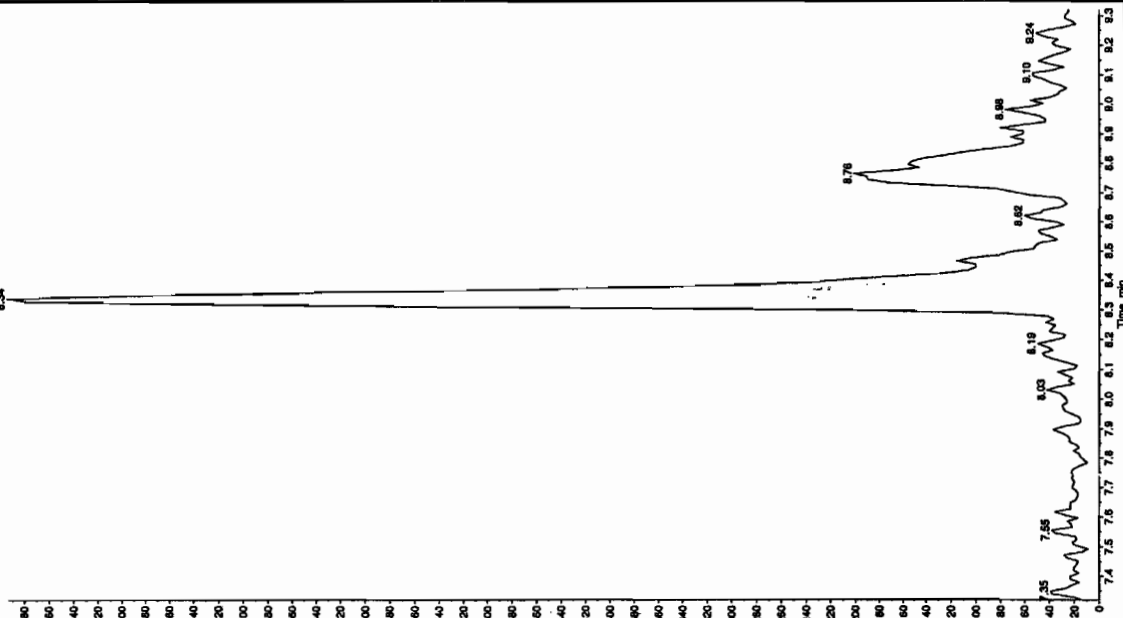


Amw 3/15/10

Sample Name: "XBLK09" Sample ID: "11LEF" File: "EX503100080.wif"  
Peak Name: "34-Dinitrobenz" Mass(es): "102.1/151.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 PM  
Modified: NO

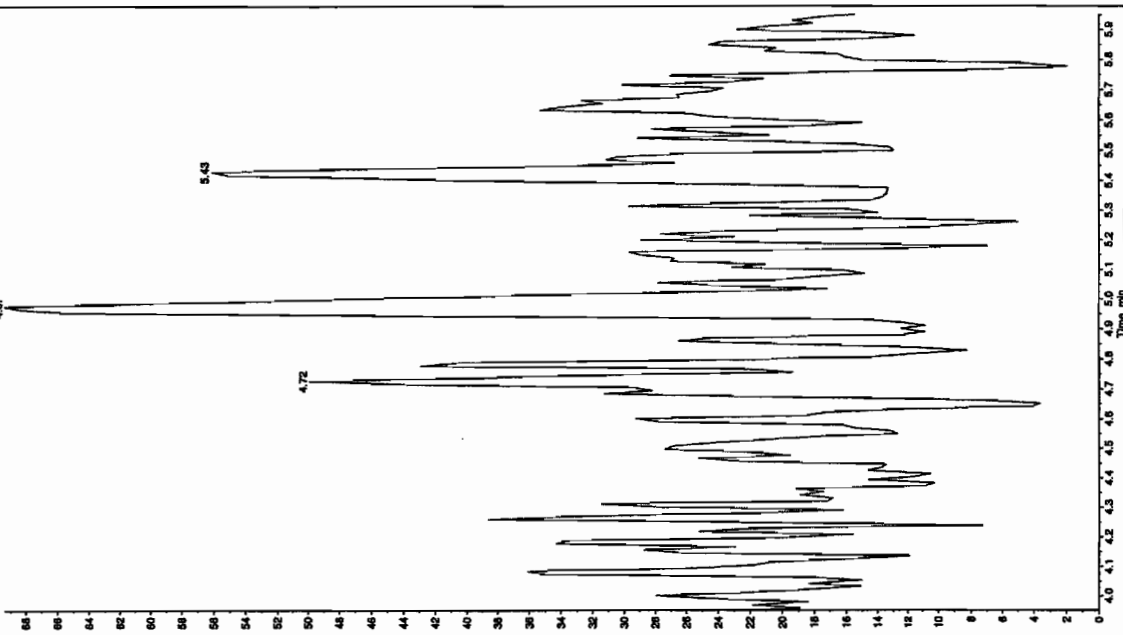
Intensity, cps



Sample Name: "XBLK09" Sample ID: "11LEF" File: "EX503100080.wif"  
Peak Name: "26-Dinitro-4-nitrobenz" Mass(es): "165.0/165.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 PM  
Modified: NO

Intensity, cps

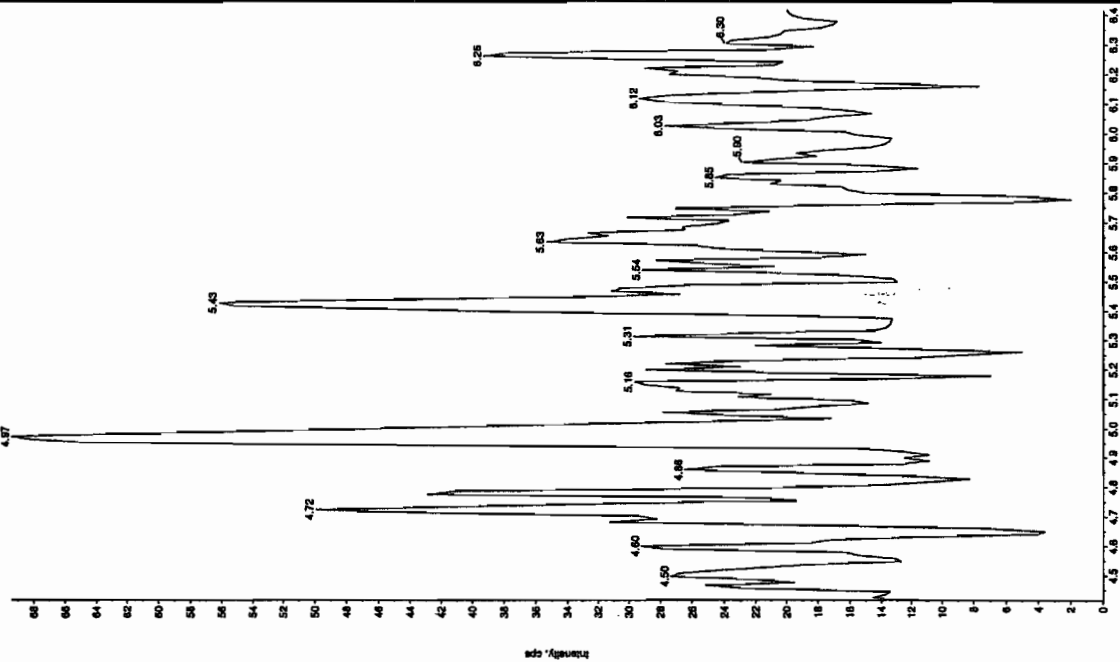




Sample Name: "XBL009" Sample ID: "11LEF" File: "EXS03100080.wiff"  
Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCMS0P\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 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: 10.8 min  
Use Relative RT: No

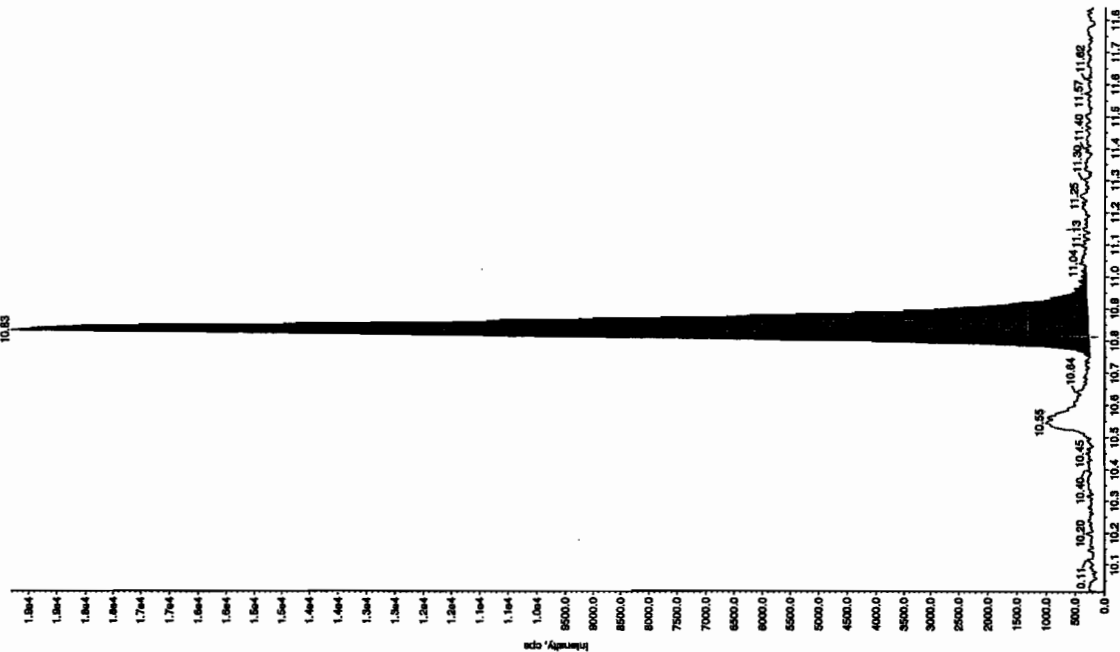
Int. Type: Valley  
Retention Time: 10.8 min  
Peak Height: 19043.472 counts  
Start Time: 10.7 min  
End Time: 11.0 min



Sample Name: "XBL009" Sample ID: "11LEF" File: "EXS03100080.wiff"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "352.191.0 amu"  
Comment: "LCMS0P\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.467 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:12:09 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: 10.8 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 10.8 min  
Peak Height: 19043.472 counts  
Start Time: 10.7 min  
End Time: 11.0 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK10

**Analysis Date:** 11-MAR-10 15:36

**GEL Data File:** EXS03100093.wiff

**Instrument ID:** LCMSMS

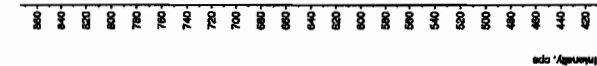
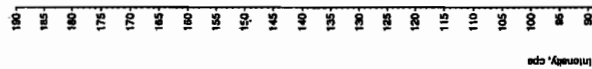
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.369
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/14/10

Sample Name: \*XBLK10\* Sample ID: \*11LER\* File: EX503100083.wif  
Peak Name: \*TAIB\* Mass(es): 257.2204.9 amu  
Comment: \*LCMSEXP\_B\* Annotation: ?

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:36:17 PM  
Modified: No

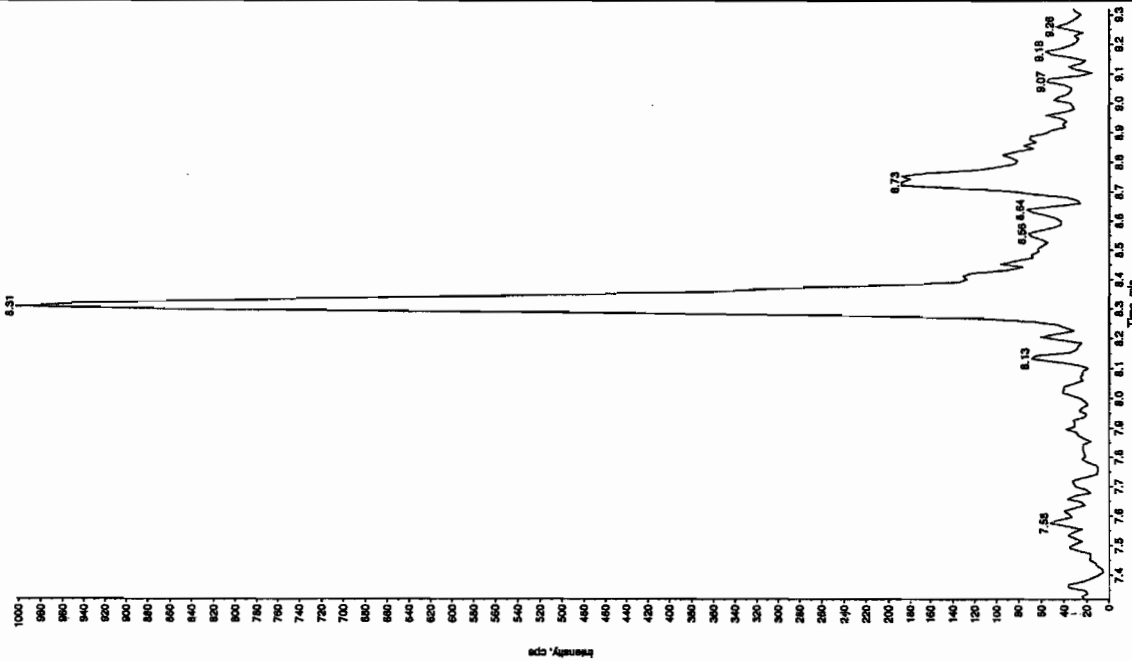


Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:36:17 PM  
Modified: No

Run 03/15/10

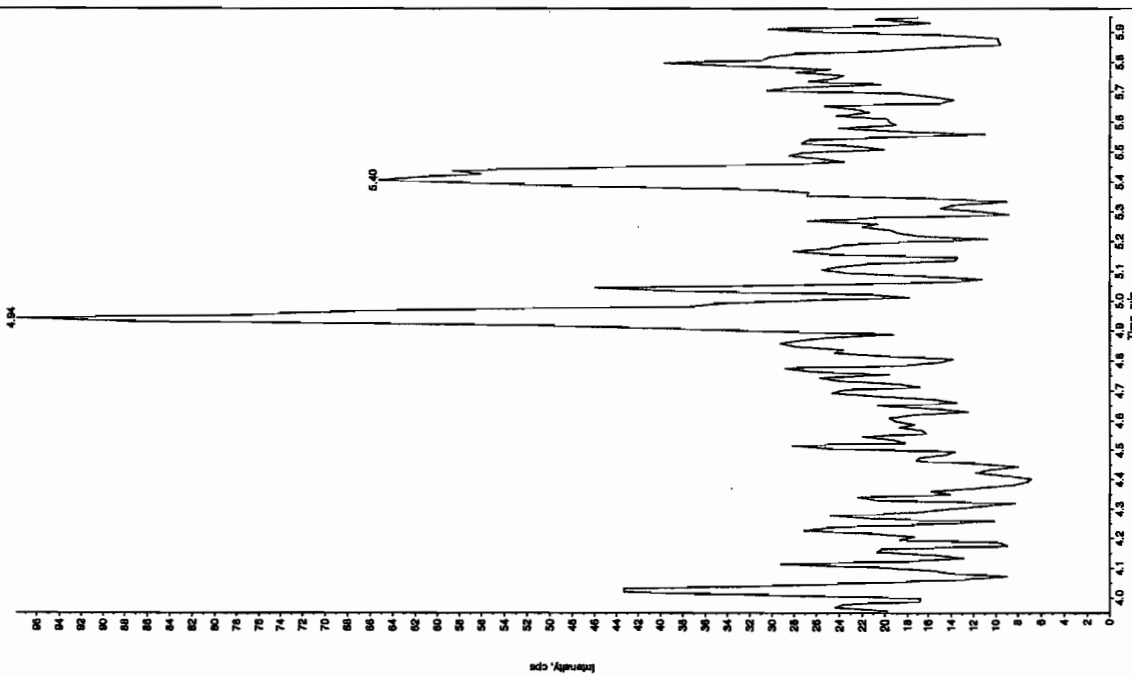
Sample Name: "XBLK10" Sample ID: "111ER" File: "EX503100093.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1751.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Batched Conc: 3/13/2010  
Acq. Date: 3:36:17 PM  
Acq. Time: 3:36:17 PM  
Modified: No



Sample Name: "XBLK10" Sample ID: "111ER" File: "EX503100093.wif"  
Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "186.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Batched Conc: 3/13/2010  
Acq. Date: 3:36:17 PM  
Acq. Time: 3:36:17 PM  
Modified: No

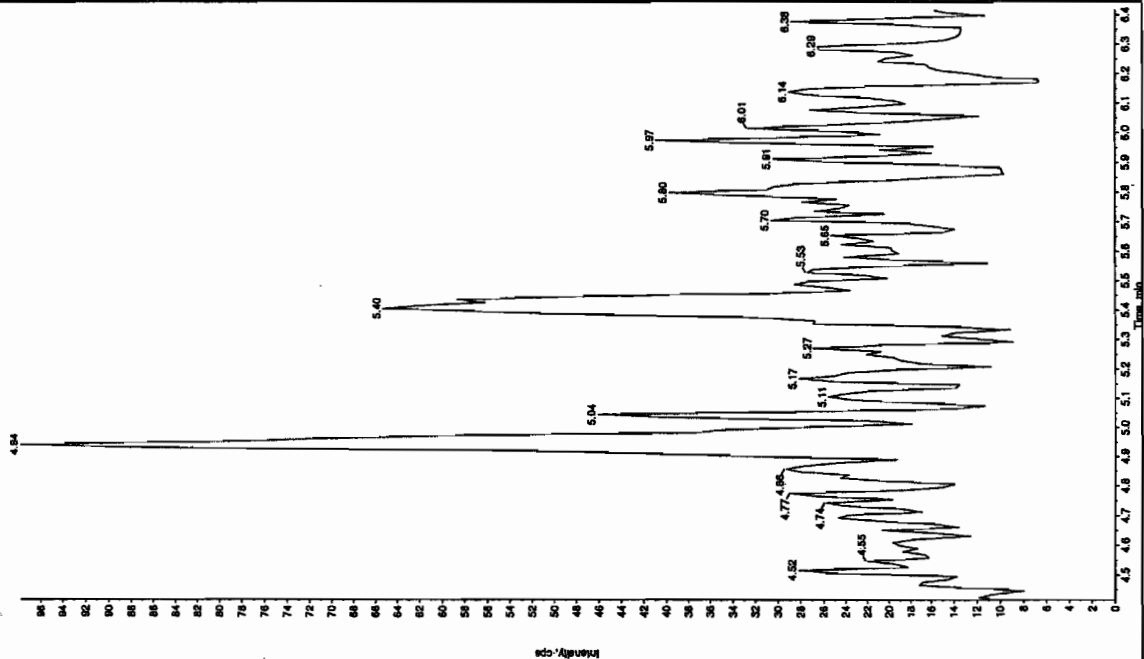


Sample Name: "XIBLK10" Sample ID: "JILFER" File: "EX303100093.wif"  
Peak Name: "24-Diamino-6-nitroclouene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:36:17 PM  
Modified: No

Proc. Algorithm: IntelliQuan - ION  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 10.8 min  
Area: 6.99e+004 counts  
Height: 17246.531 cps  
Start Time: 10.8 min  
End Time: 11.0 min

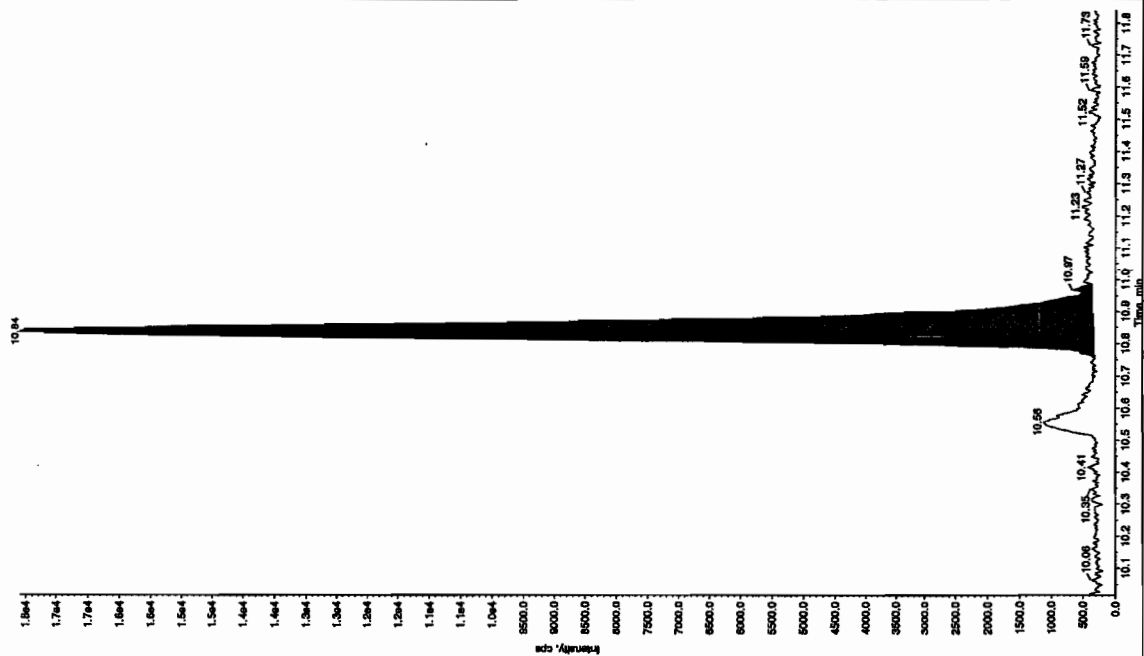


Sample Name: "XIBLK10" Sample ID: "JILFER" File: "EX303100093.wif"  
Peak Name: "Isio-cresyl phosphate" Mass(es): "359.191.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.369 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:36:17 PM  
Modified: No

Proc. Algorithm: IntelliQuan - ION  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 10.8 min  
Area: 6.99e+004 counts  
Height: 17246.531 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):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK11

**Analysis Date:** 11-MAR-10 18:28

**GEL Data File:** EXS03100104.wiff

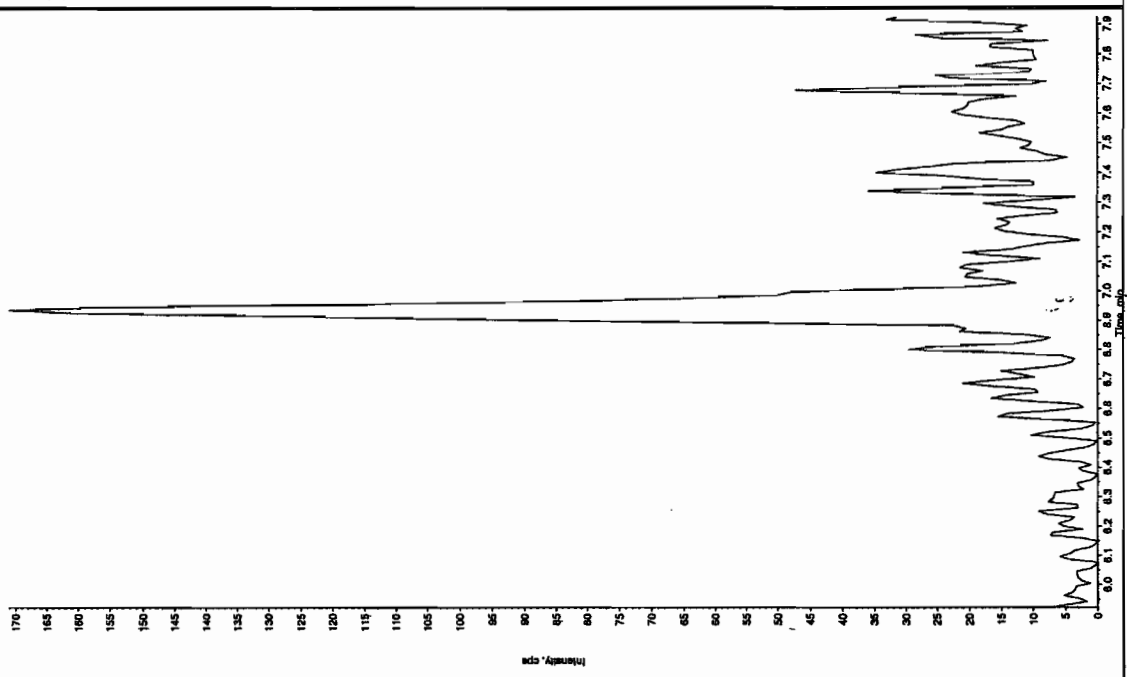
**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

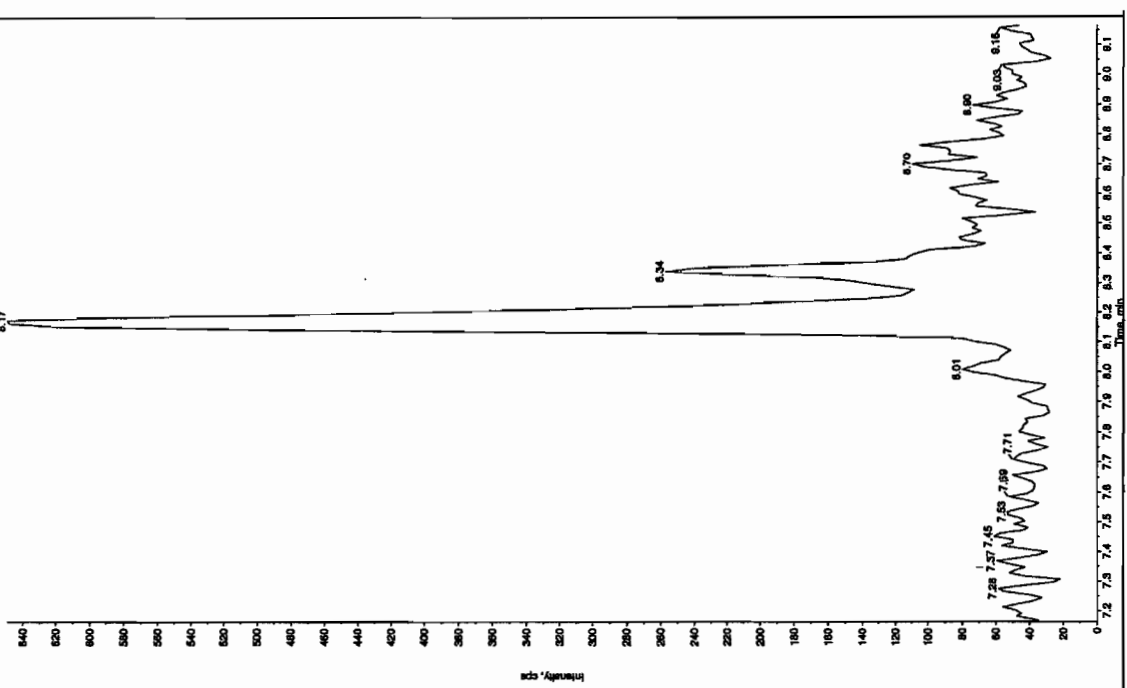
Compound	True	Found (ug/L)
2,6-Diamino-4-nitrotoluene	0	0
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.433
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0

Run 3/14/10

Sample Name: "XIBLK11" Sample ID: "HILF" File: "EXS03100104.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: 3/11/2010  
Acq. Time: 6:28:58 PM  
Modified: No



Sample Name: "XIBLK11" Sample ID: "HILF" File: "EXS03100104.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: 3/11/2010  
Acq. Time: 6:28:58 PM  
Modified: No



4/11/10 3/14/10

Sample Name: "XBLK11" Sample ID: "11LER" File: "EX503100104.wdf"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

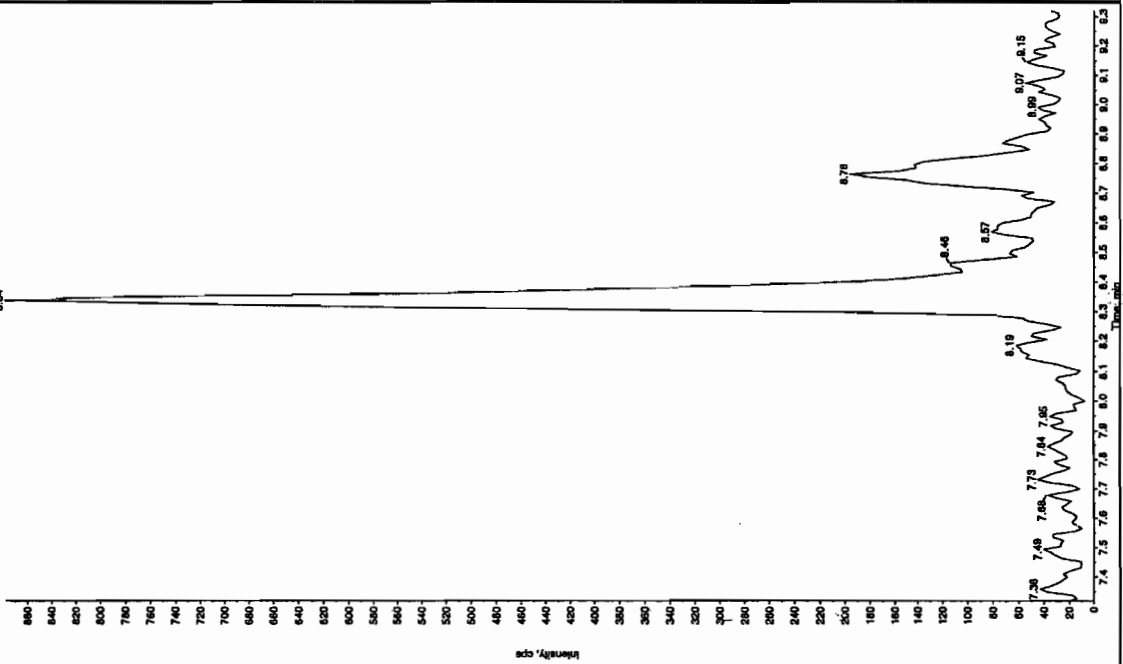
Concentration: 0.00 ng/mL

Calculated Conc: 3/11/2010

Acq. Date: 6:28:58 PM

Acq. Time: No

Modified: No



Sample Name: "XBLK11" Sample ID: "11LER" File: "EX503100104.wdf"

Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0/46.0 amu"

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

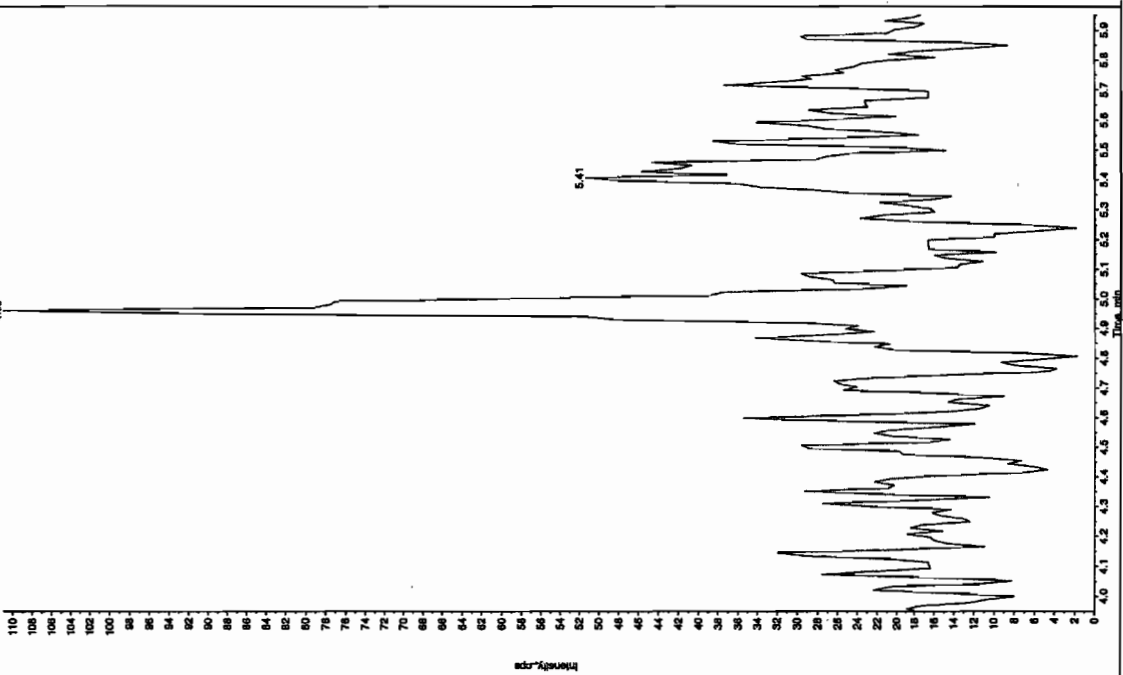
Concentration: 0.00 ng/mL

Calculated Conc: 3/11/2010

Acq. Date: 6:28:58 PM

Acq. Time: No

Modified: No

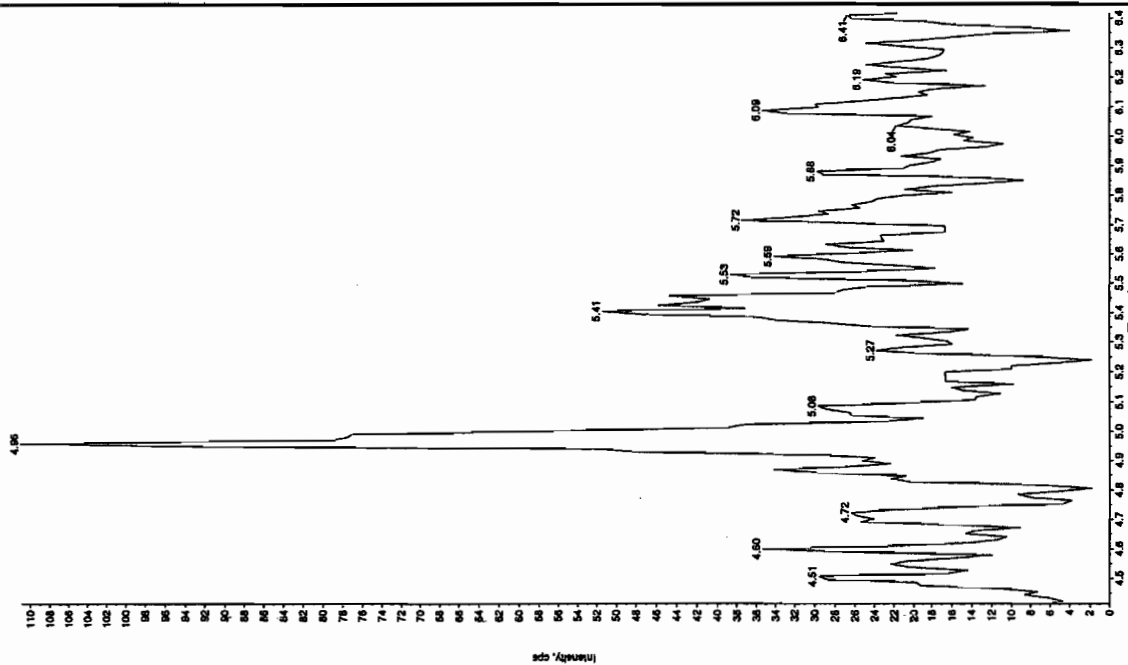




Sample Name: "XBLK11" Sample ID: "11LER" File: "EXS03100104.wiff"  
 Peak Name: "24-Diamino-6-nitroclausu" Mass(es): "160.0/46.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

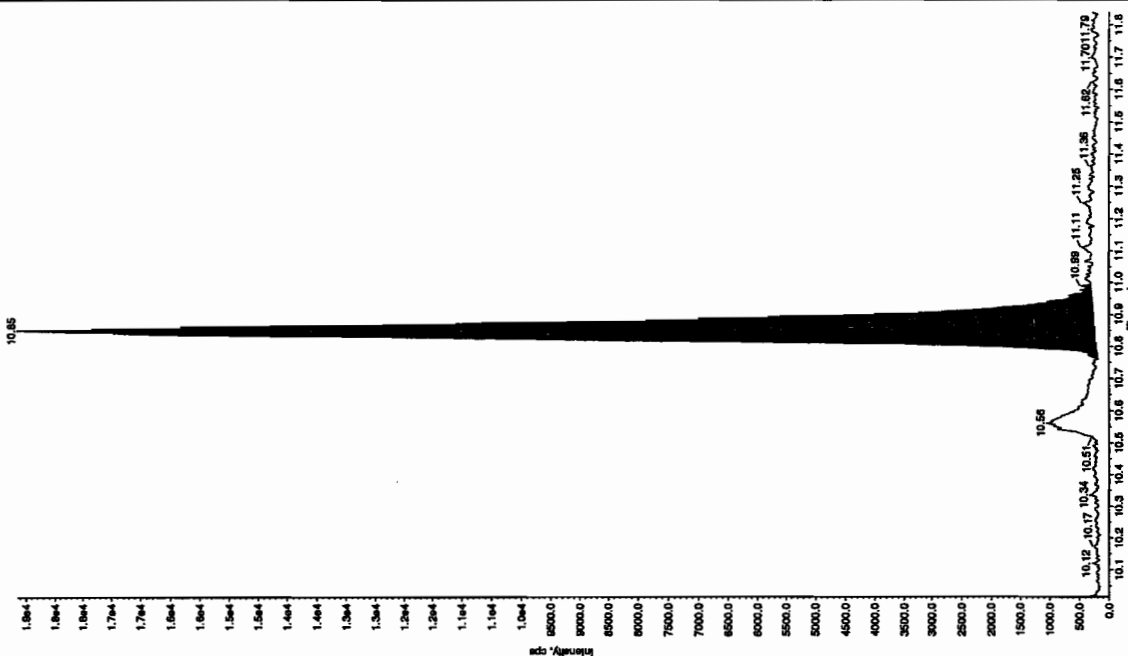
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 6:28:58 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 10.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No

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Sample Name: "XBLK11" Sample ID: "11LER" File: "EXS03100104.wiff"  
 Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "359.18/11.0 amu"  
 Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.433 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 6:28:58 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 10.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 7.08e+004 counts  
 Height: 18405.758 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):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK12

**Analysis Date:** 11-MAR-10 21:53

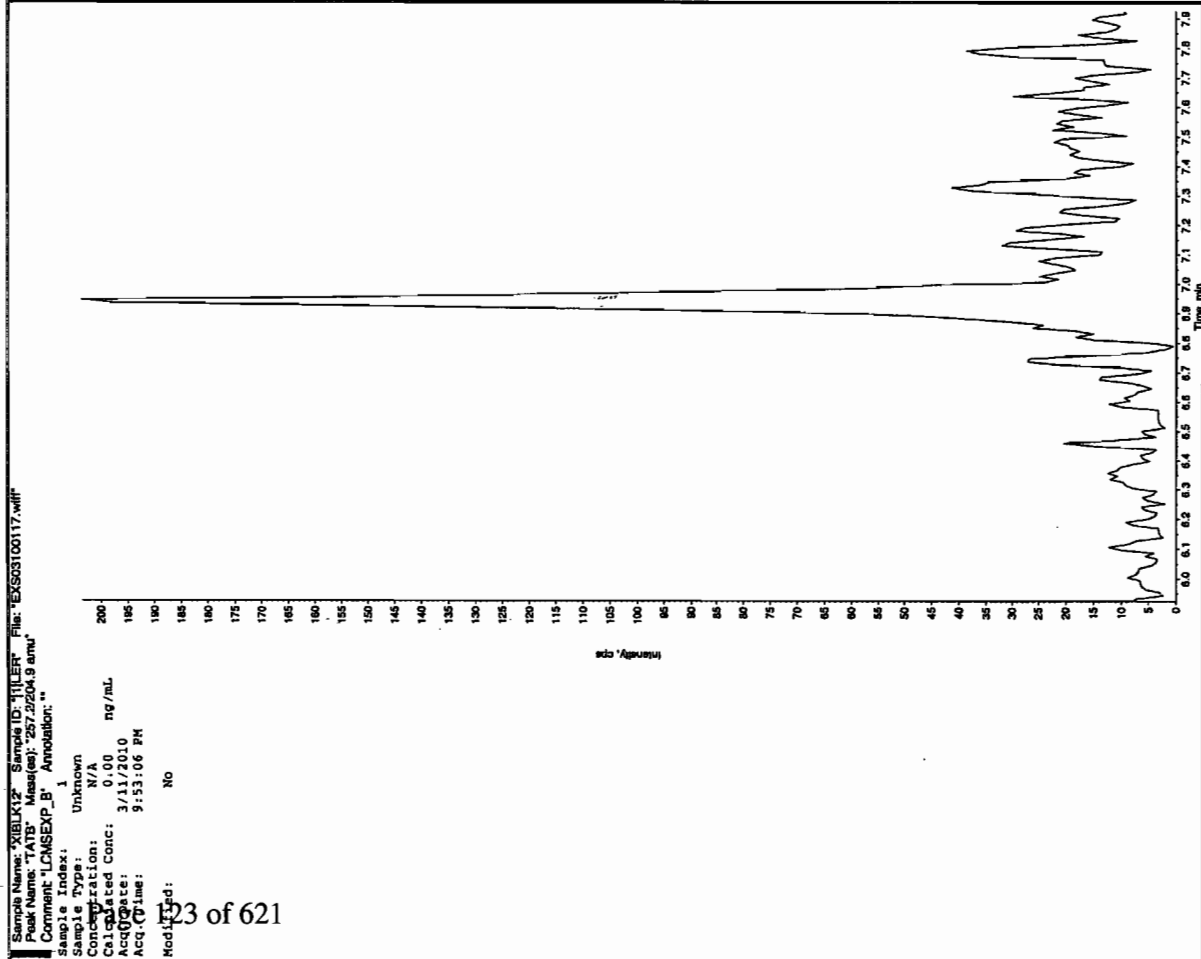
**GEL Data File:** EXS03100117.wiff

**Instrument ID:** LCMSMS

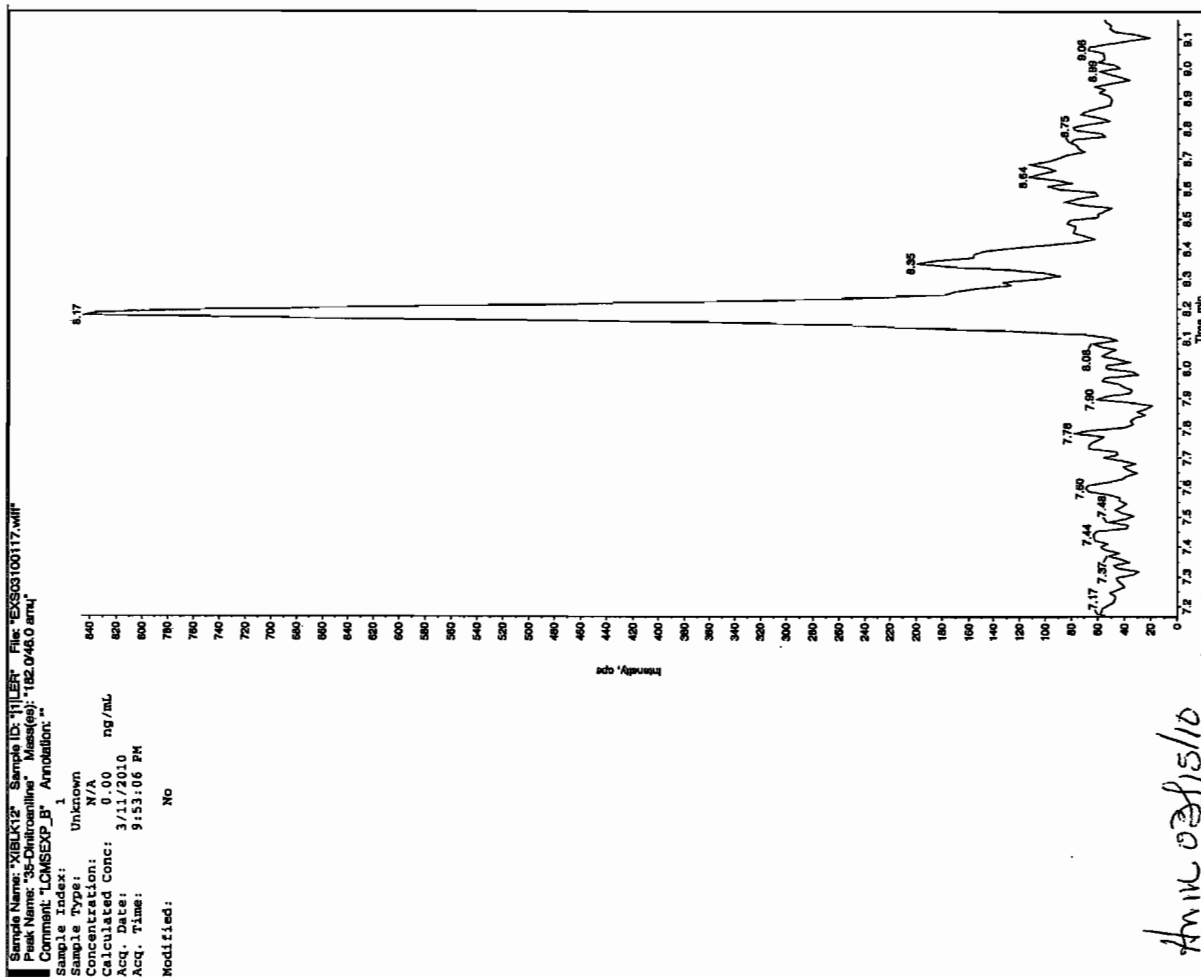
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.571
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

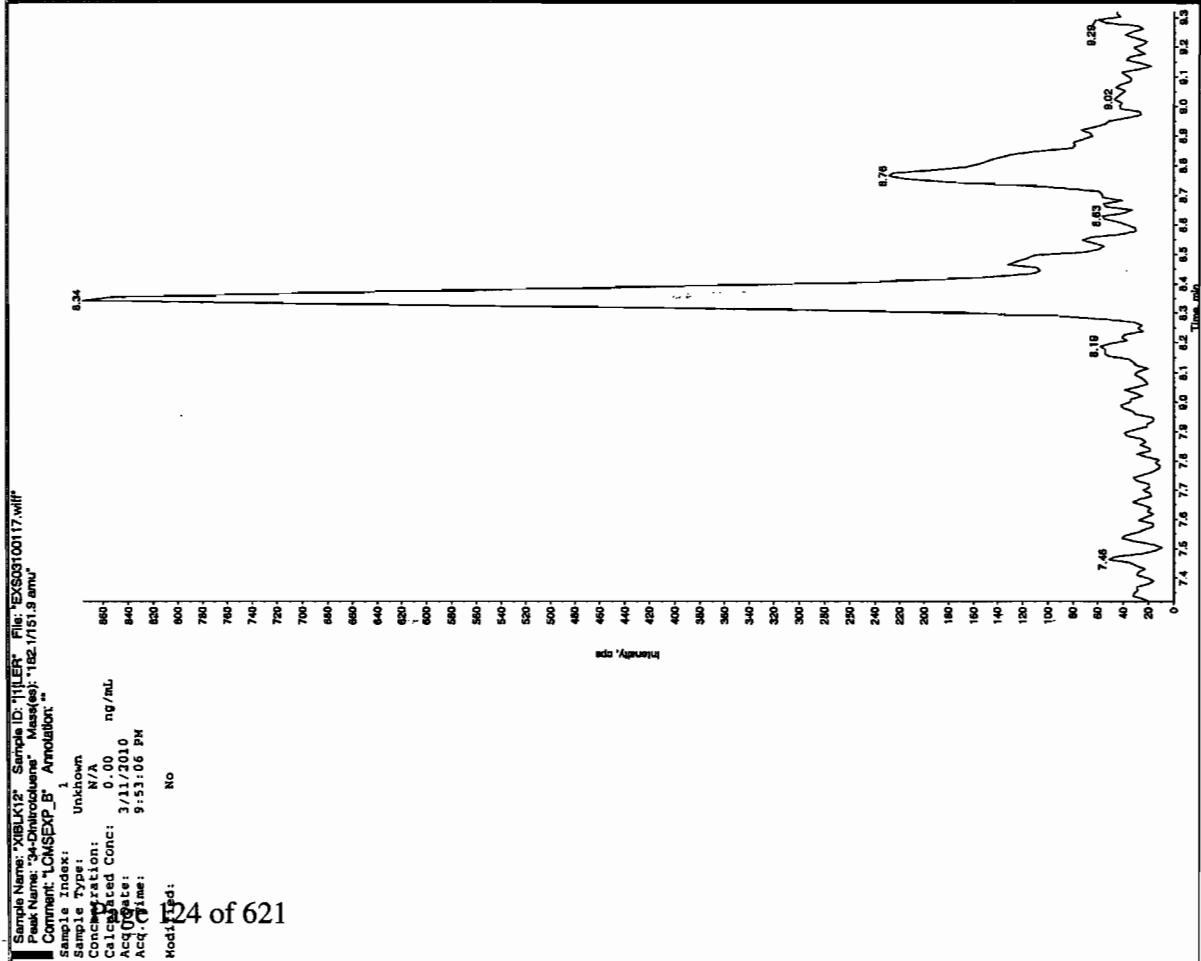
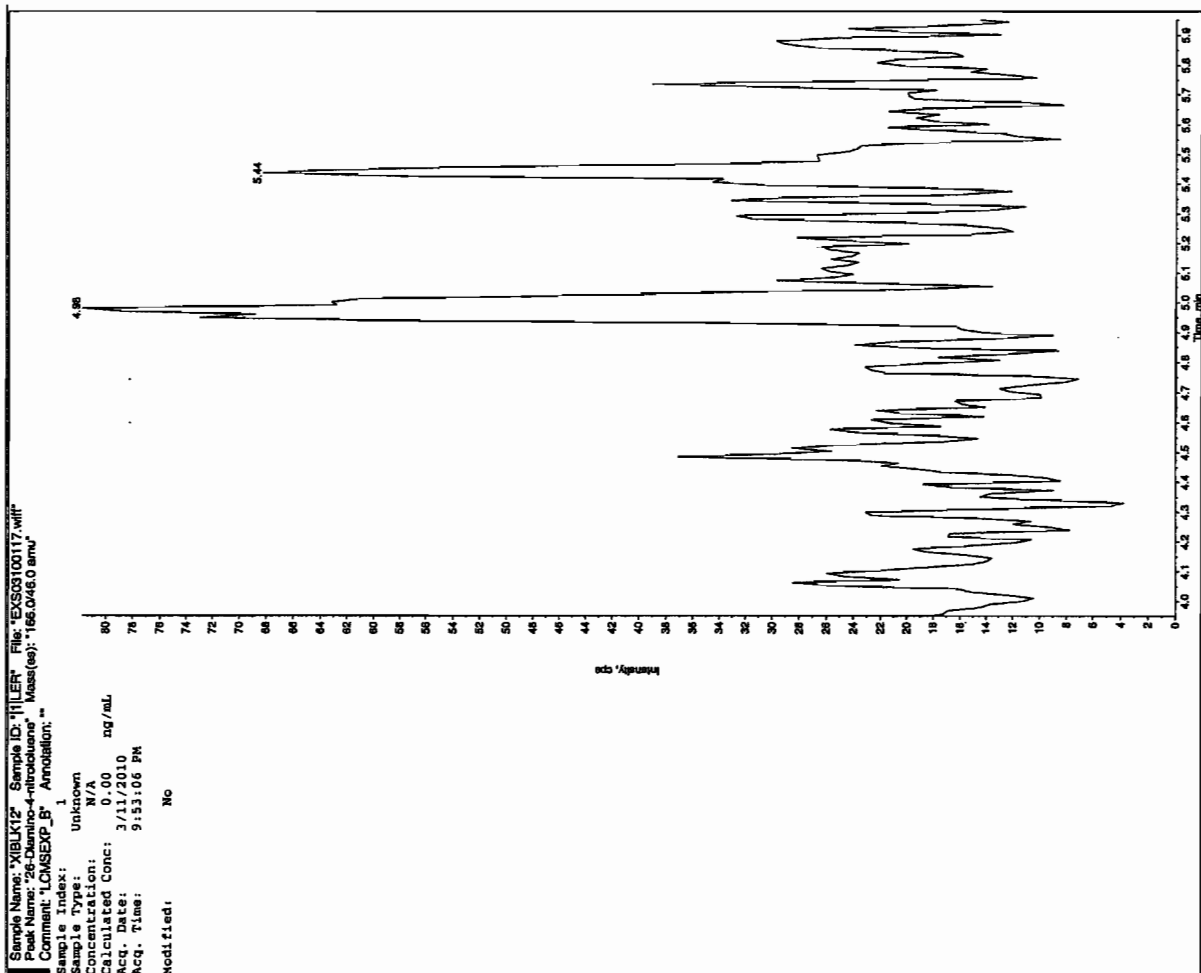
Don 3/14/10



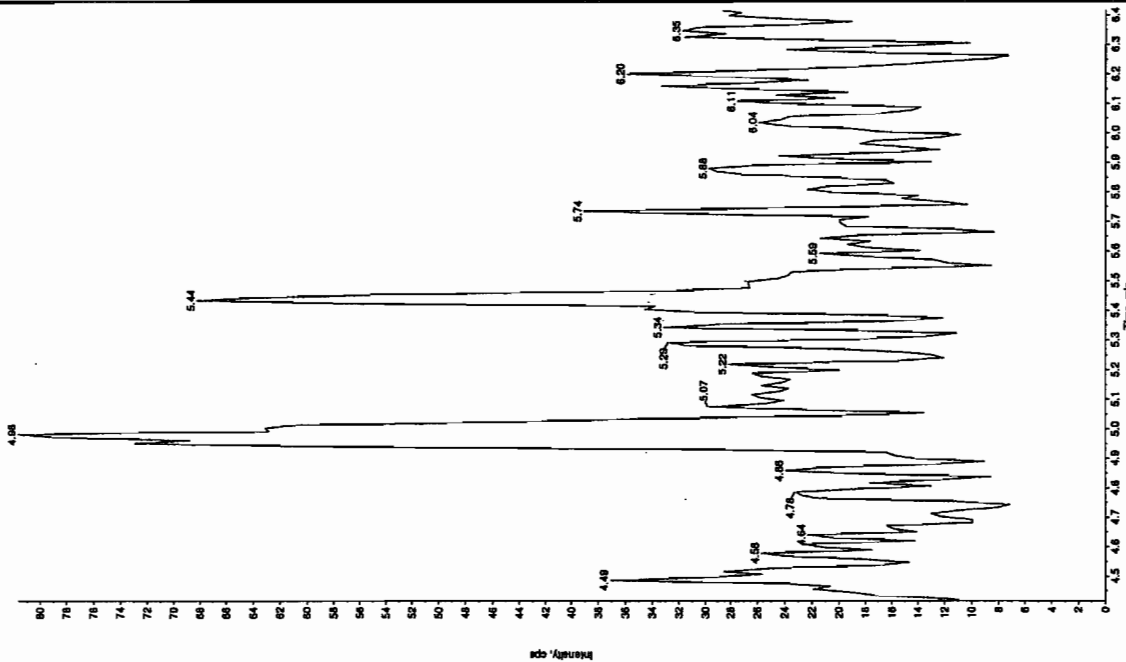
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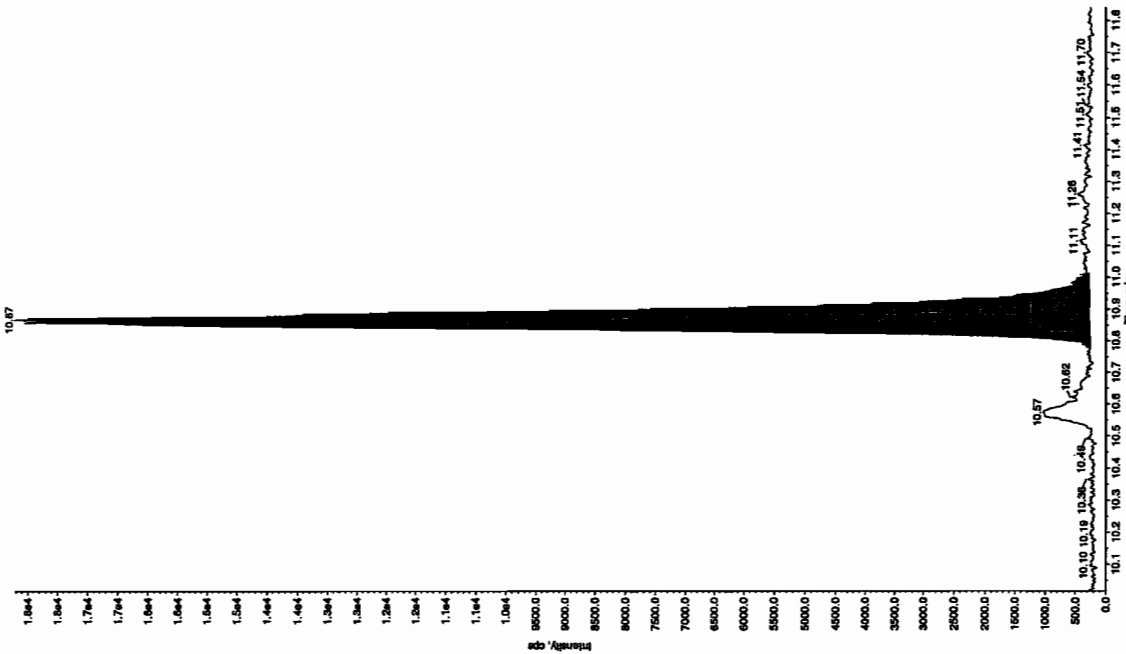
Don 03/15/10



Sample Name: "XIBLK12" Sample ID: "11LER" File: "EXS03100117.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.0/46.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""  
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 9:53:06 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 7.26e+004 counts  
Height: 17950.502 cps  
Start Time: 10.8 min  
End Time: 11.0 min



Sample Name: "XIBLK12" Sample ID: "11LER" File: "EXS03100117.wif"  
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "369.1/91.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""  
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.571 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 9:53:06 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 7.26e+004 counts  
Height: 17950.502 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):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK13

**Analysis Date:** 12-MAR-10 01:01

**GEL Data File:** EXS03100129.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	.603
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

dan 3/14/10

Sample Name: "XIBLK13" Sample ID: "TILER" File: "EXS03100123.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

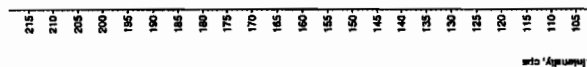
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 1:01:31 AM

Modified: No



Sample Name: "XIBLK13" Sample ID: "TILER" File: "EXS03100123.wif"

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

Comment: "LCMSEXP\_B" Annotation: "

Sample Index: 1

Sample Type: Unknown

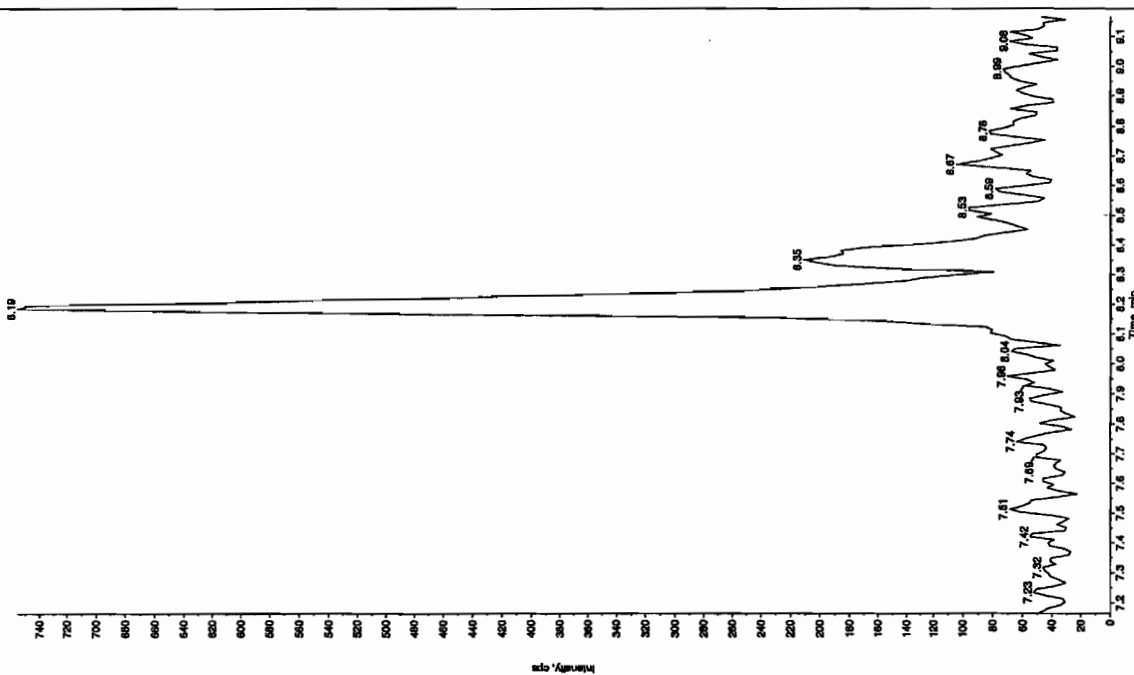
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

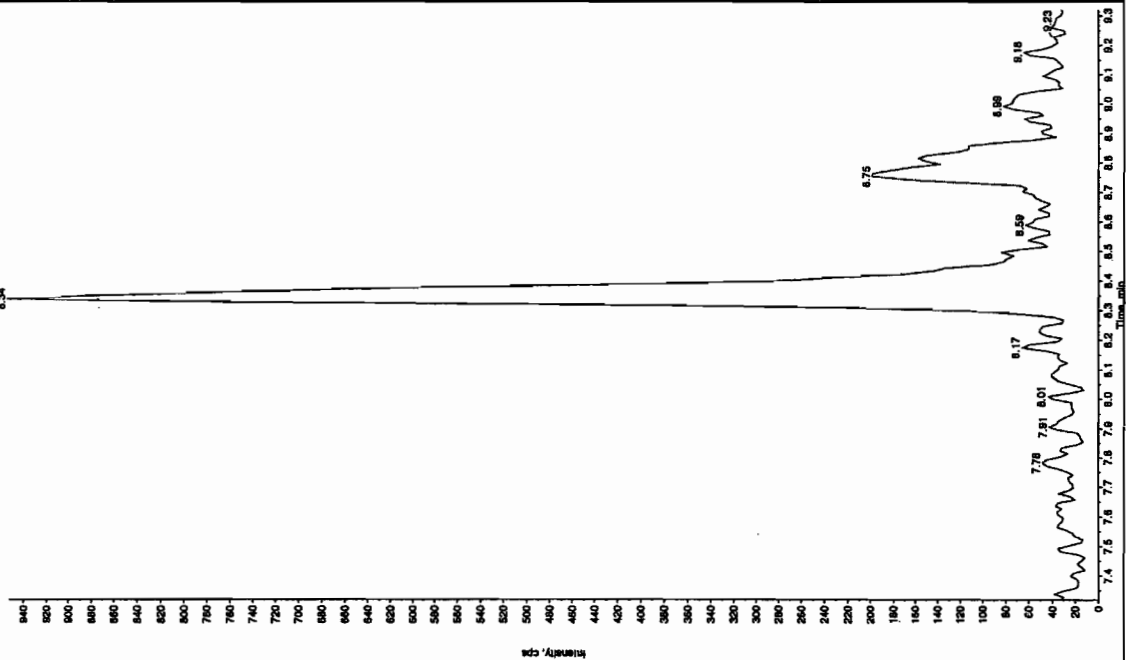
Acq. Time: 1:01:31 AM

Modified: No



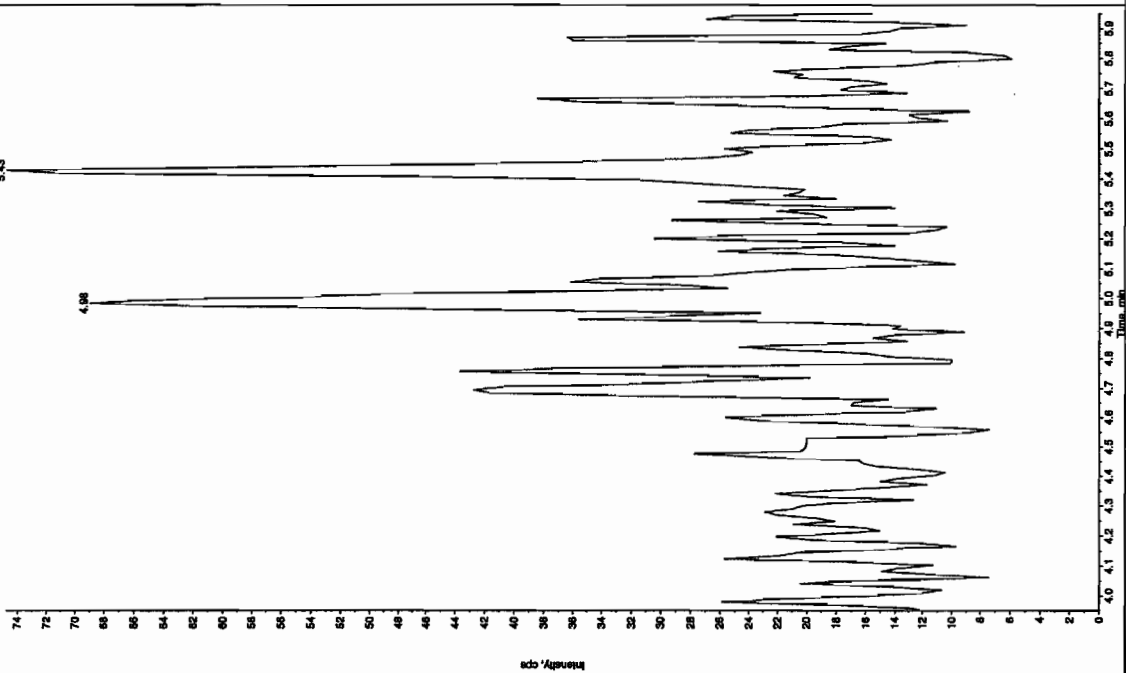
Sample Name: "VBLK13" Sample ID: "HILER" File: "EXS03100129.wiff"  
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "182.151.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:01:31 AM  
Modified: No



Sample Name: "VBLK13" Sample ID: "HILER" File: "EXS03100129.wiff"  
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "165.046.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:01:31 AM  
Modified: No

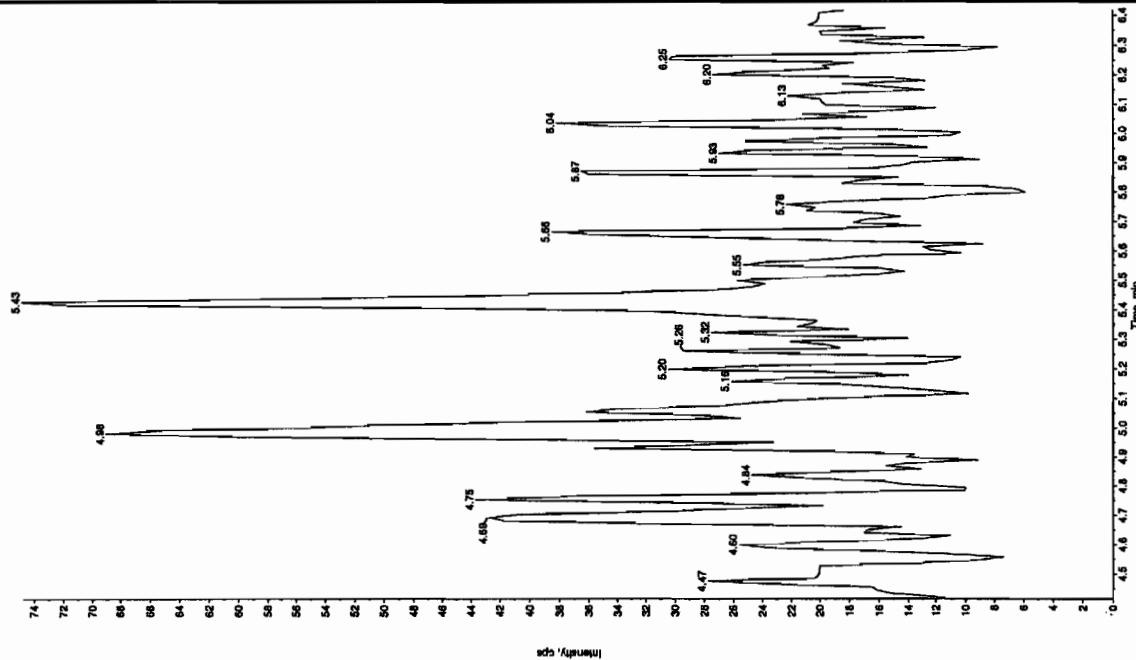




Sample Name: "XBLK13" Sample ID: "111LER" File: "EX030100129.will"  
Peak Name: "24-Diamino-6-nitrofluorene" Mass(es): "168.0/46.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

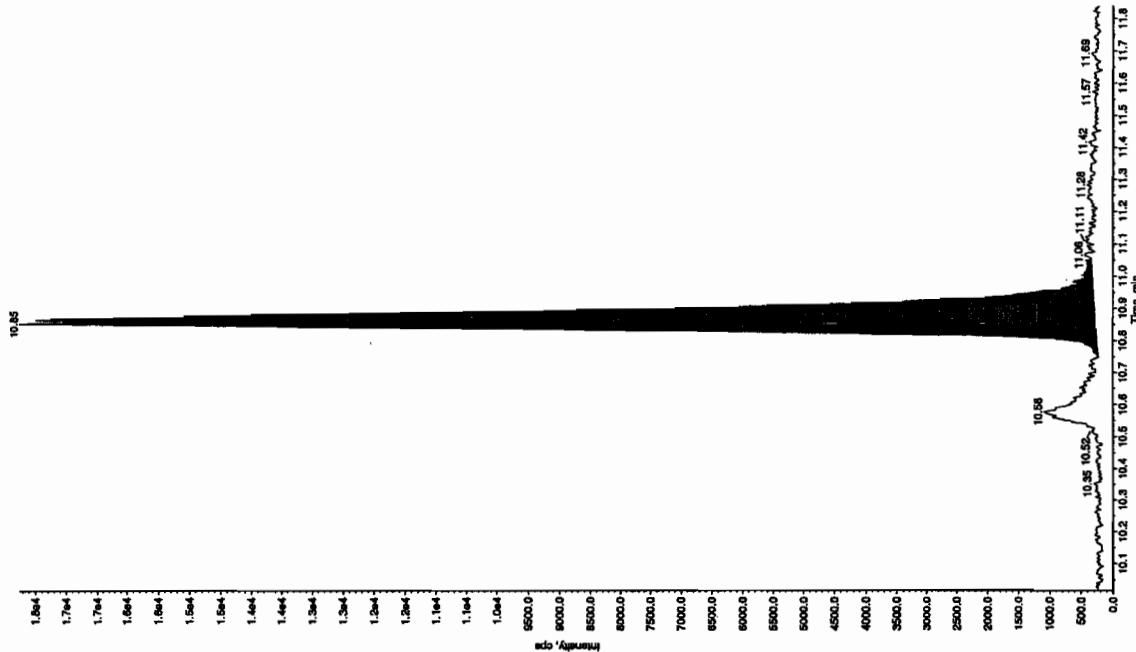
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:01:31 AM  
Modified: No

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Sample Name: "XBLK13" Sample ID: "111LER" File: "EX030100129.will"  
Peak Name: "nicot-cresyl phosphate" Mass(es): "359.1/91.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:01:31 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 7.30e+004 counts  
Height: 17480.671 cps  
Start Time: 10.6 min  
End Time: 11.1 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK14

**Analysis Date:** 12-MAR-10 04:25

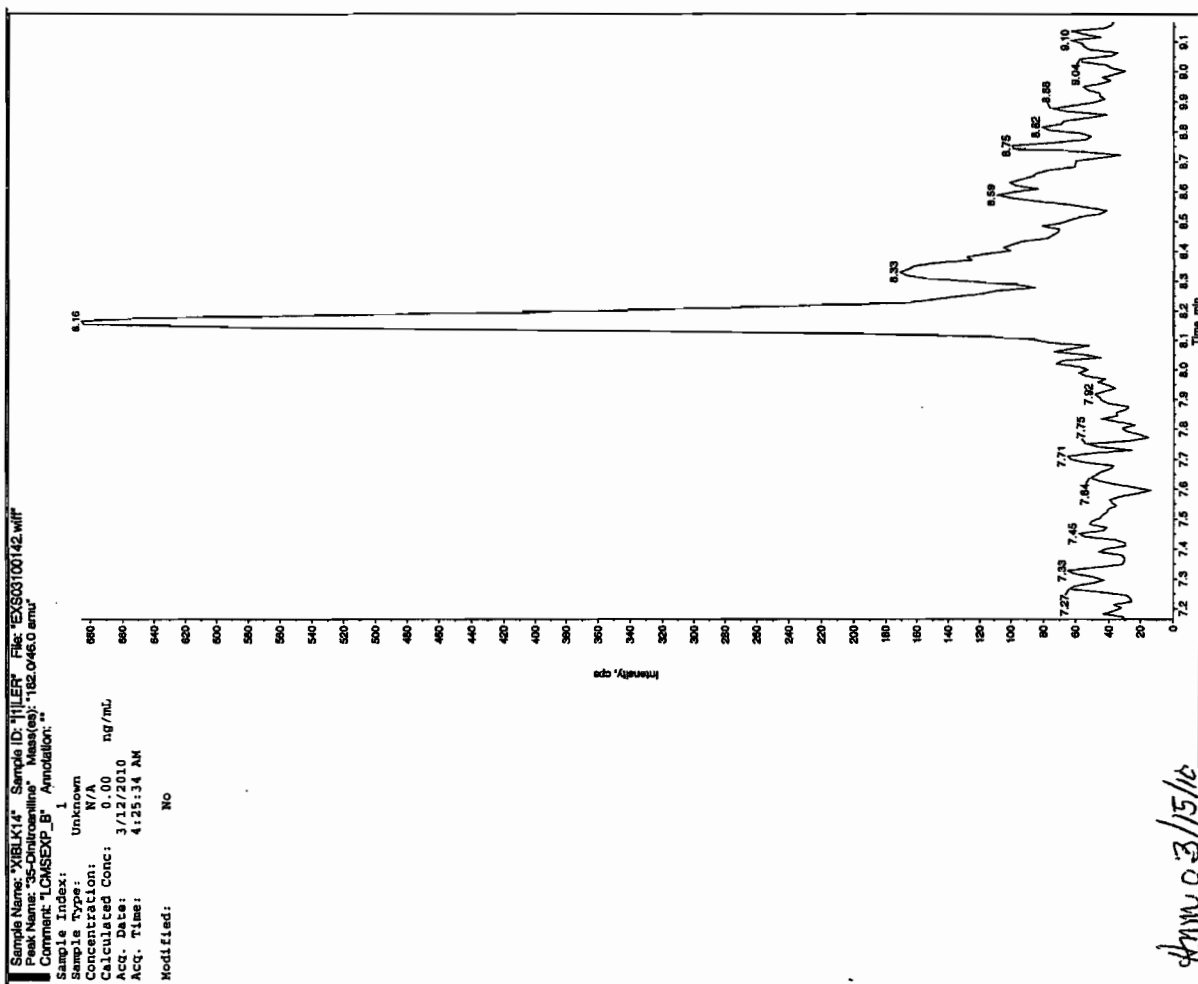
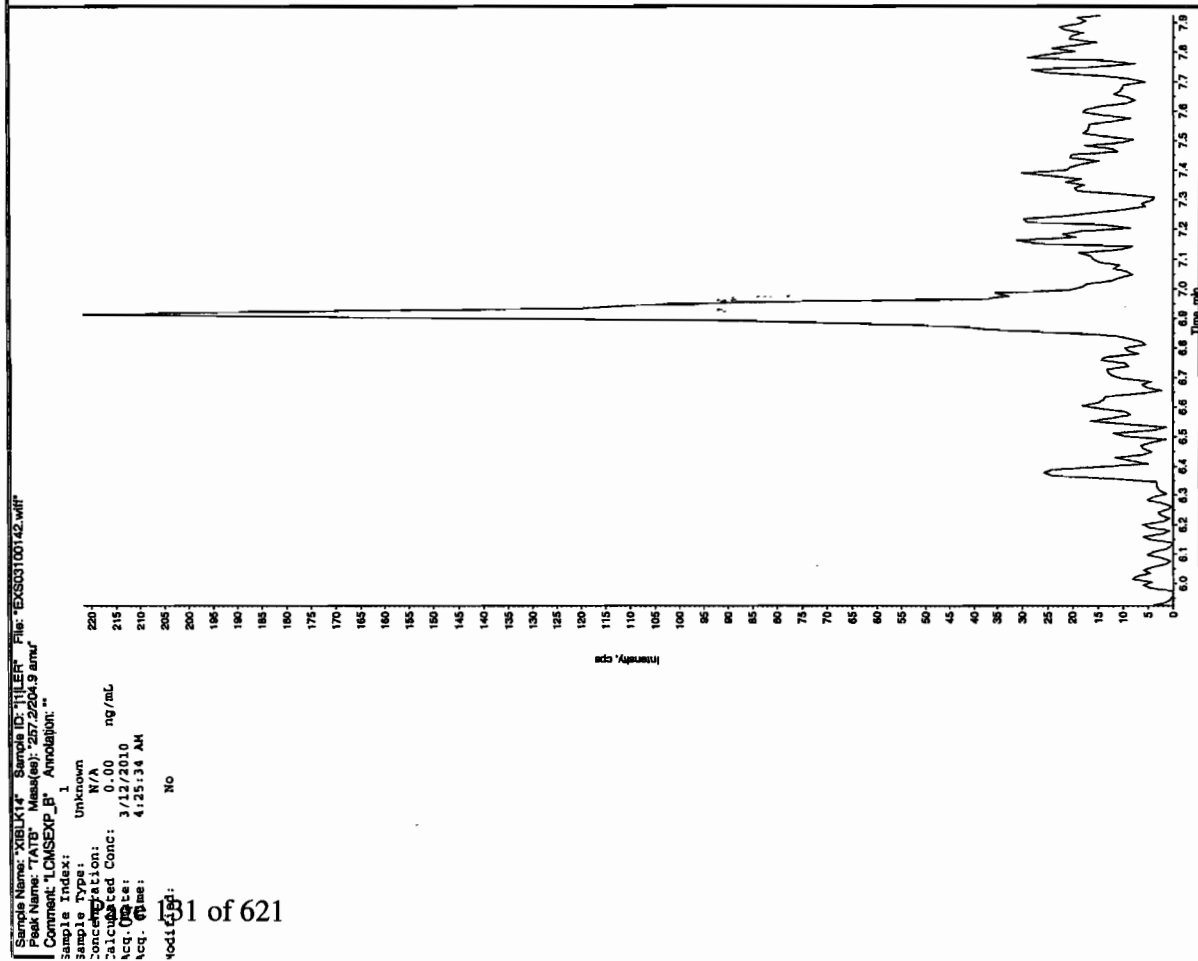
**GEL Data File:** EXS03100142.wiff

**Instrument ID:** LCMSMS

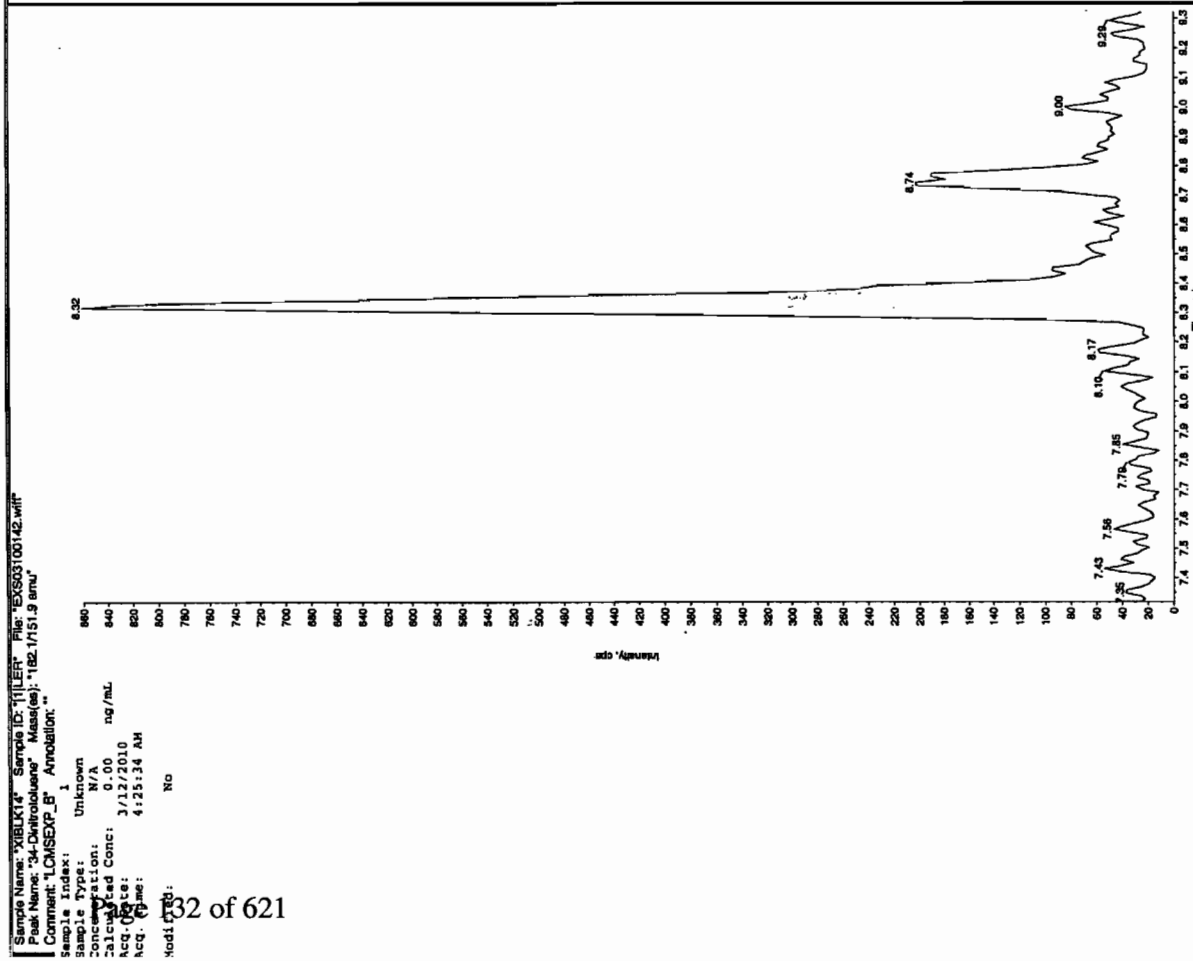
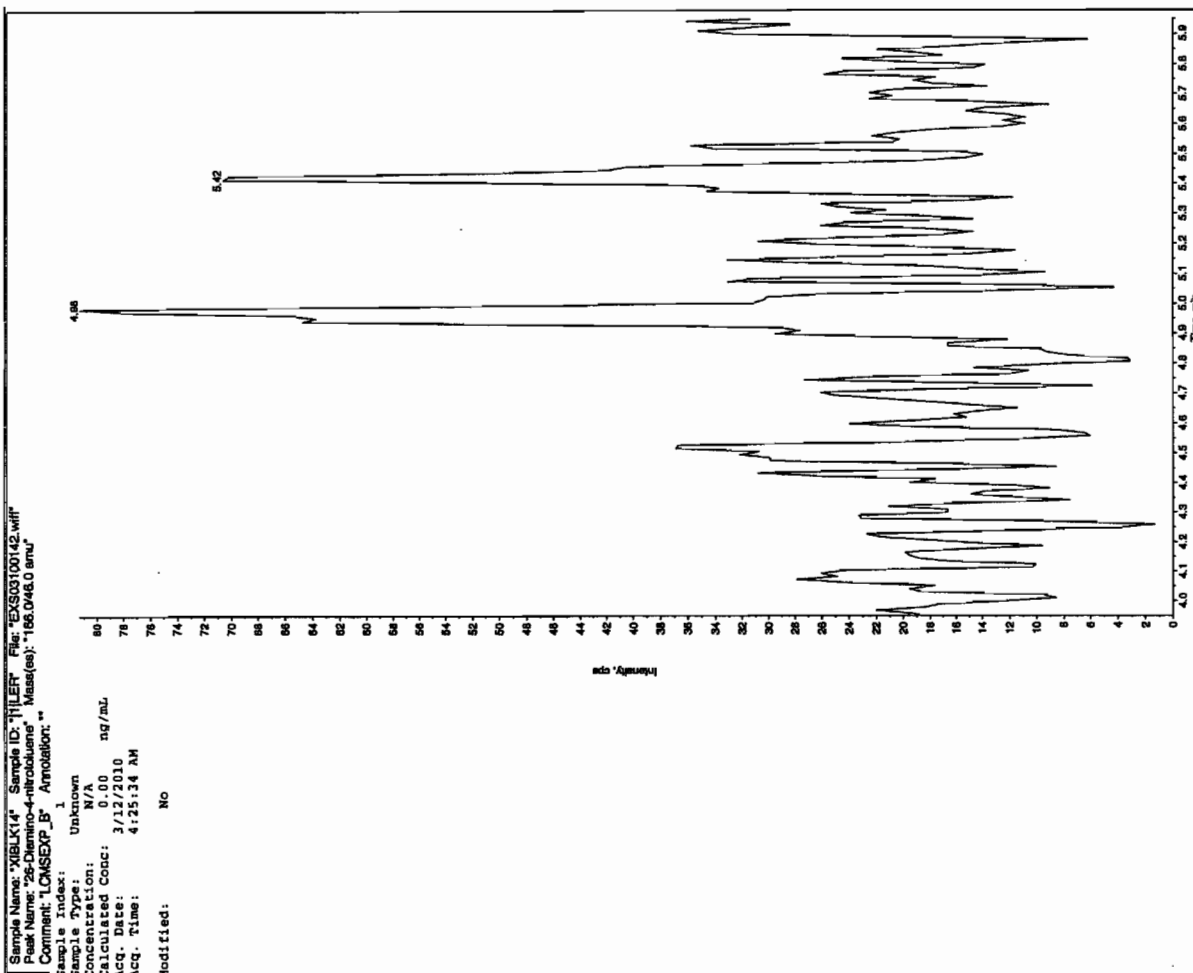
**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	.975
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

See 3/14/10



4/11/10 03/15/10



Sample Name: "XBLK14" Sample ID: "11LER" File: "EXS03100142.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: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 4:25:34 AM  
Modified: No

Proc Algorithm: IntelliQuan - IOA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No

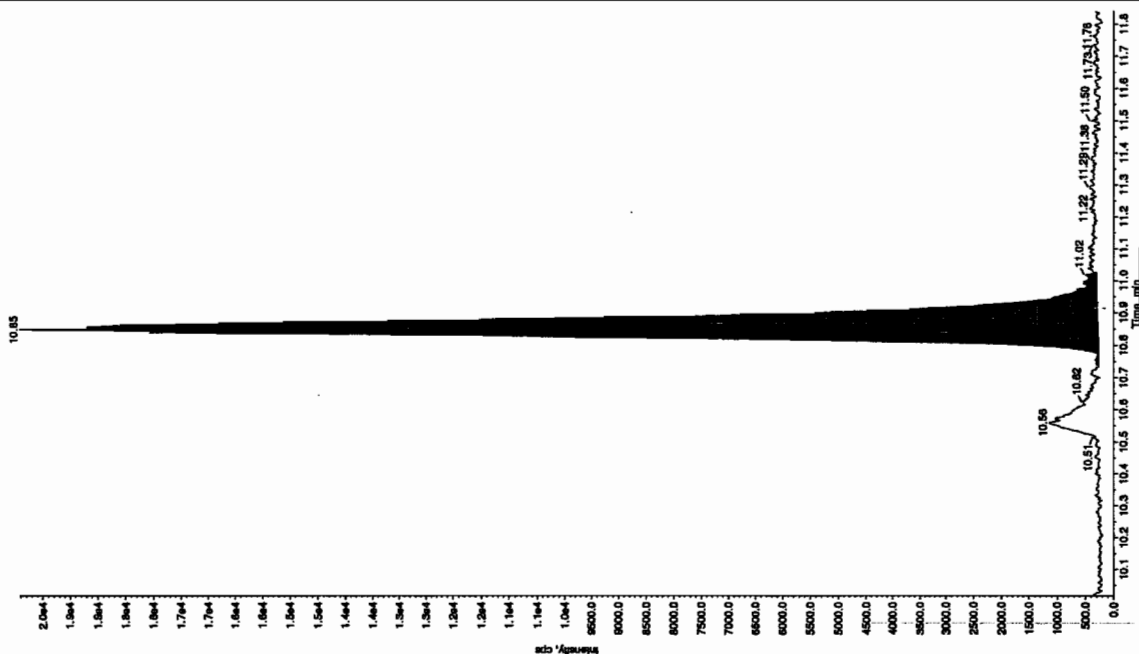
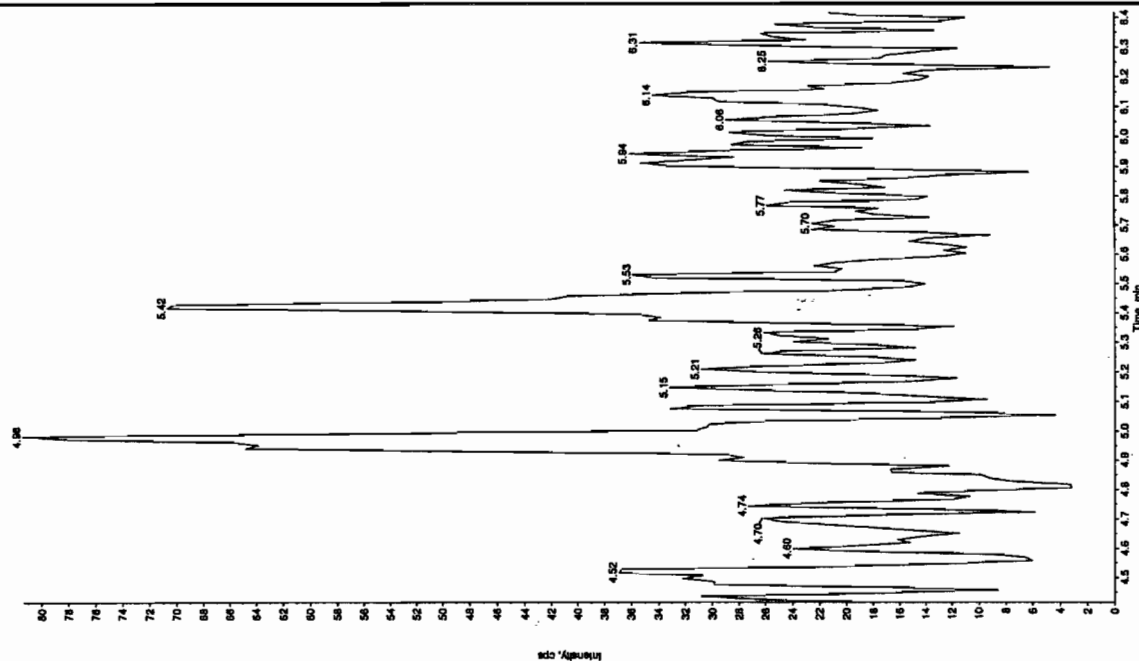
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 7.80e+004 counts  
Height: 19655.729 cps  
Start Time: 10.7 min  
End Time: 11.0 min

Sample Name: "XBLK14" Sample ID: "11LER" File: "EXS03100142.wif"  
Peak Name: "tris(o-cresyl) phosphate" Mass(es): "389.181.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.975 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 4:25:34 AM  
Modified: No

Proc Algorithm: IntelliQuan - IOA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 10.8 min  
Area: 7.80e+004 counts  
Height: 19655.729 cps  
Start Time: 10.7 min  
End Time: 11.0 min



**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK15

**Analysis Date:** 12-MAR-10 07:50

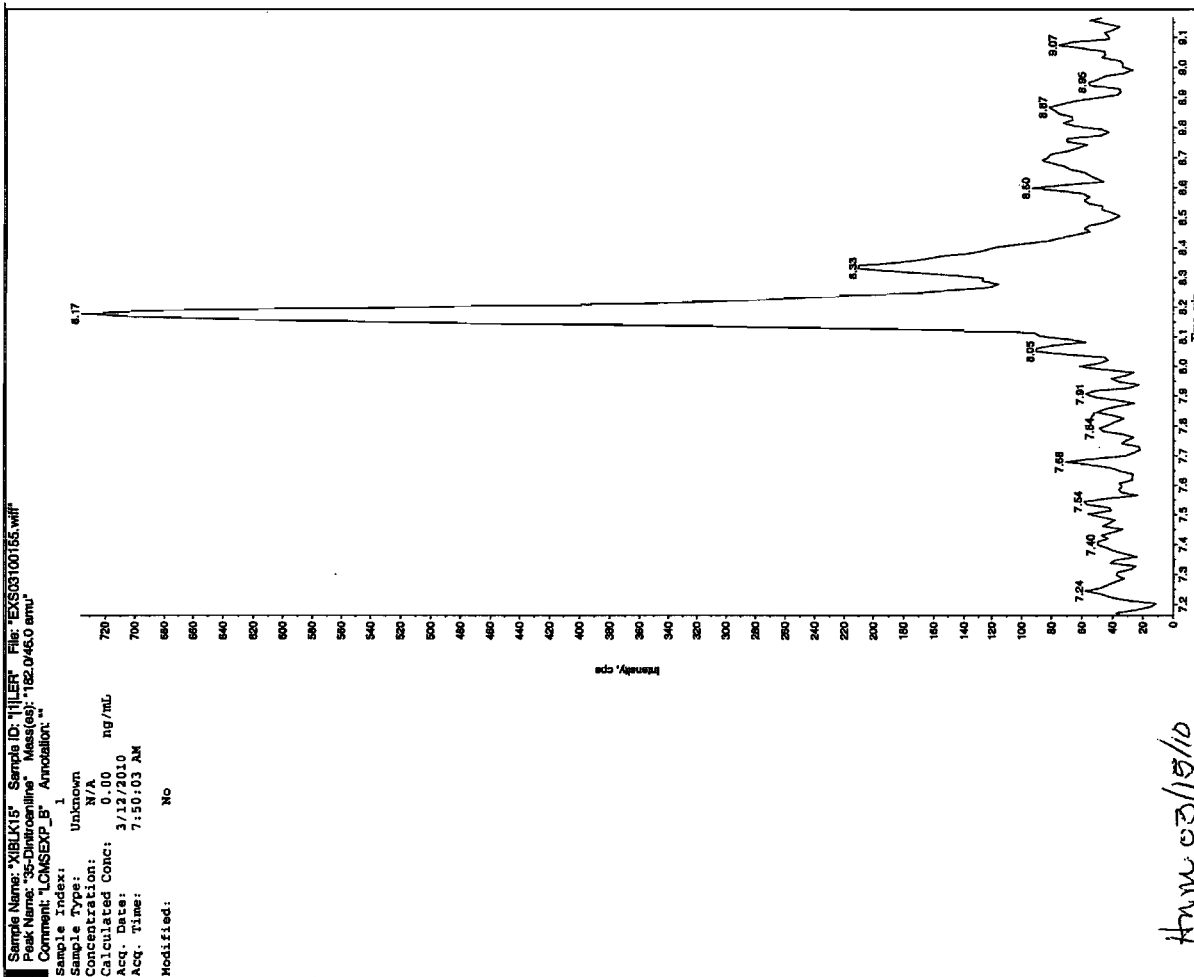
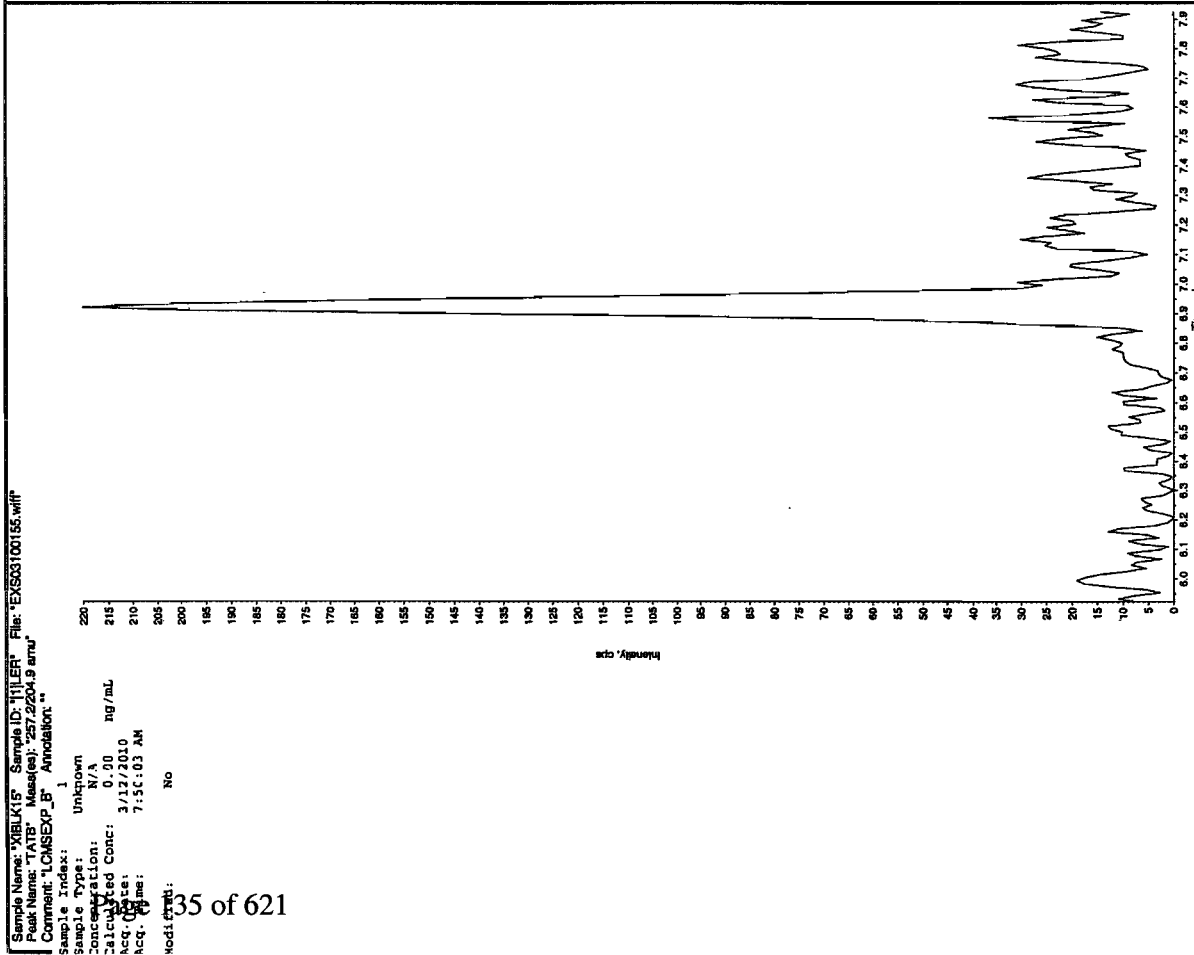
**GEL Data File:** EXS03100155.wiff

**Instrument ID:** LCMSMS

**Column:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found (ug/L)
3,4-Dinitrotoluene	0	0
tris(o-cresyl) phosphate	0	1.43
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

Run 3/14/10



Run 03/15/10

Sample Name: "XIBLK15" Sample ID: "111LER" File: "EX303100155.wif"  
Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

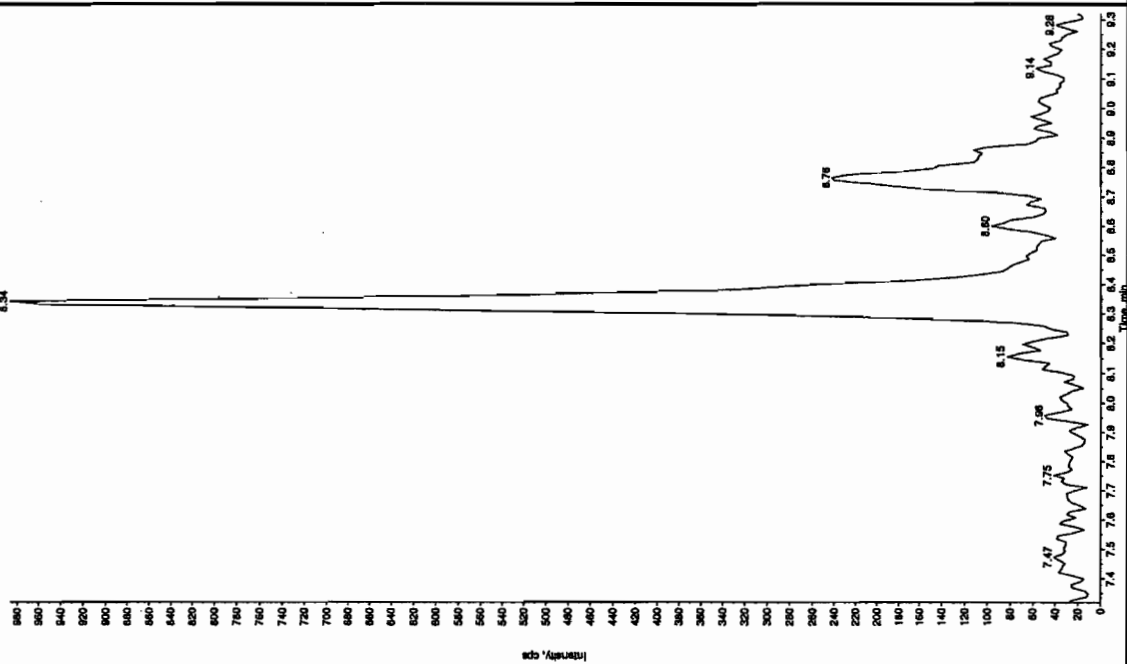
Concentration: N/A ng/mL

Calculated Conc: 3/12/2010

Acq. Date: 7/15/03 AM

Acq. Time: 7:50:03 AM

Modified: No



Sample Name: "XIBLK15" Sample ID: "111LER" File: "EX303100155.wif"  
Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "186.0/160.0 amu"  
Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

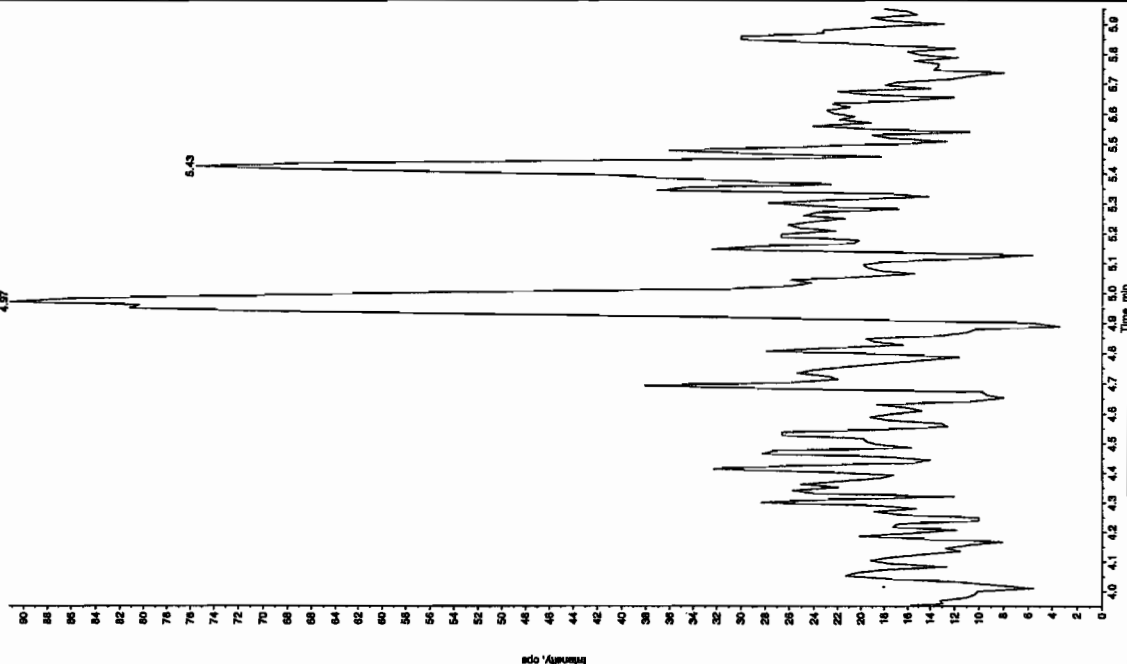
Concentration: N/A ng/mL

Calculated Conc: 3/12/2010

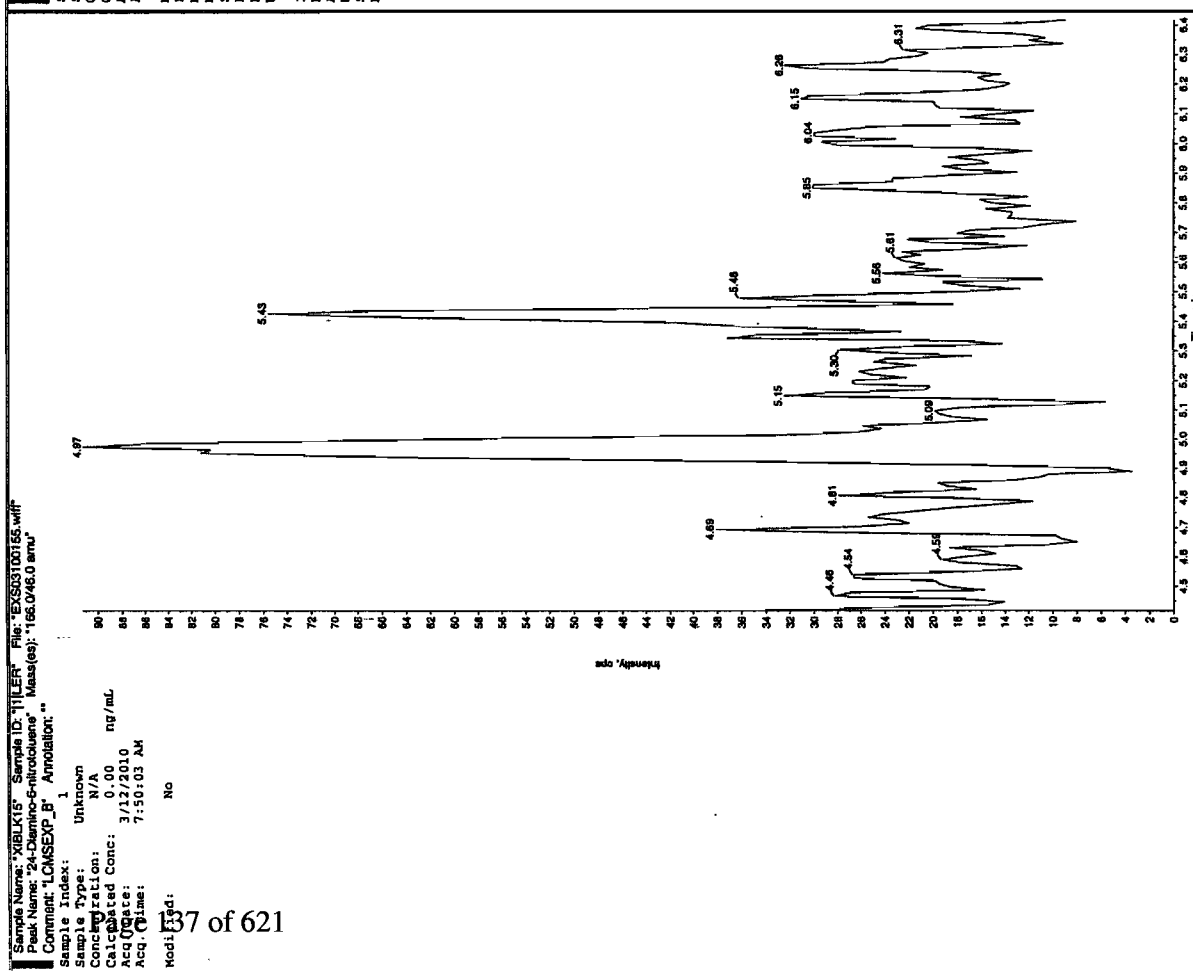
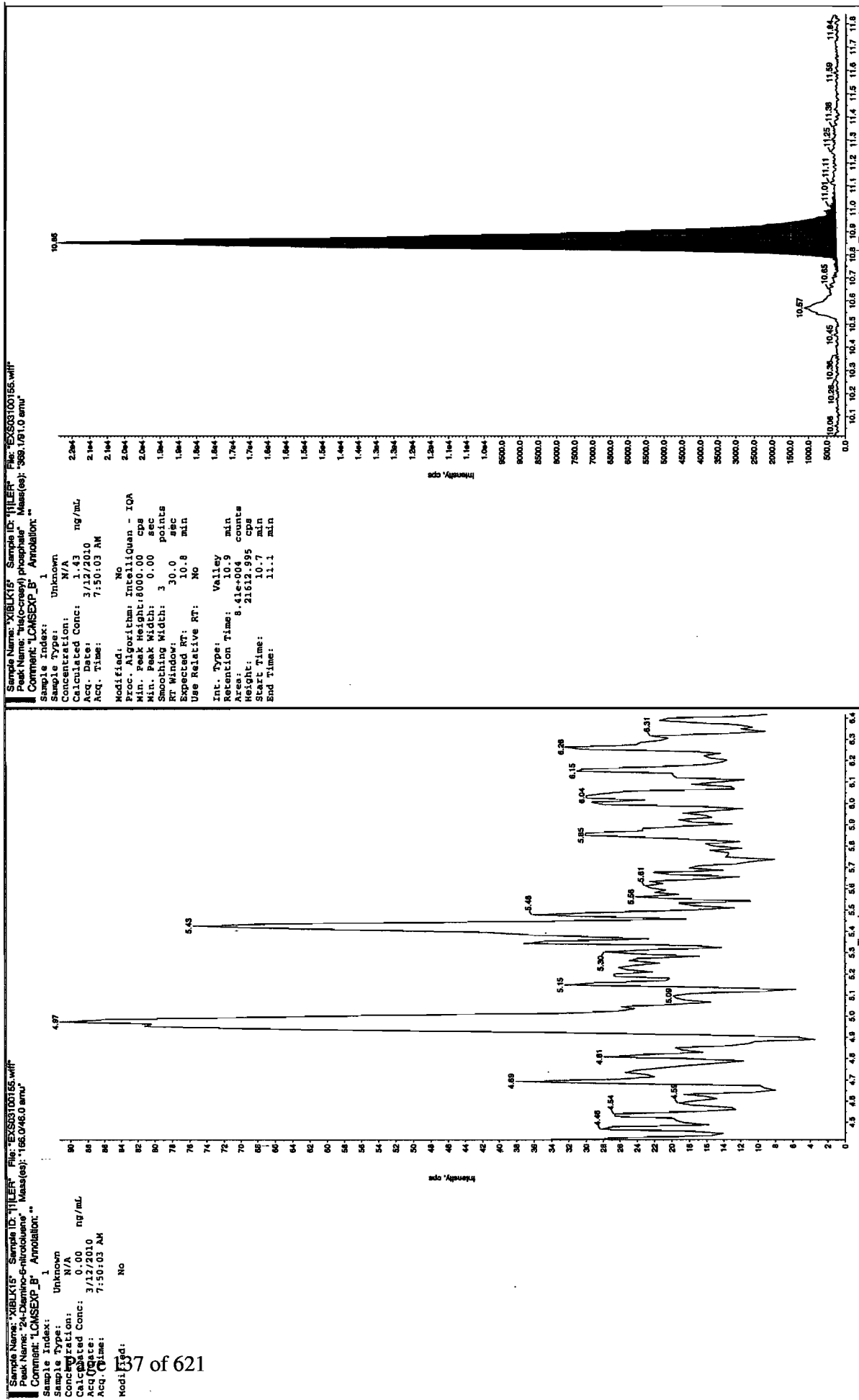
Acq. Date: 7/15/03 AM

Acq. Time: 7:50:03 AM

Modified: No







**4A**  
**Explosives Continuing Calibration Blank**

**Lab Name:** GEL Laboratories LLC

**GEL Job No(SDG):** 10-1908

**Lab Code:** GEL

**Lab Sample ID:** XIBLK16

**Analysis Date:** 12-MAR-10 09:08

**GEL Data File:** EXS03100160.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	1.65
TATB	0	0
3,5-Dinitroaniline	0	0
2,4-Diamino-6-nitrotoluene	0	0
2,6-Diamino-4-nitrotoluene	0	0

LCN 31410

Sample Name: "XBLX16" Sample ID: "111ER" File: "EX03100160.wif"

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

Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

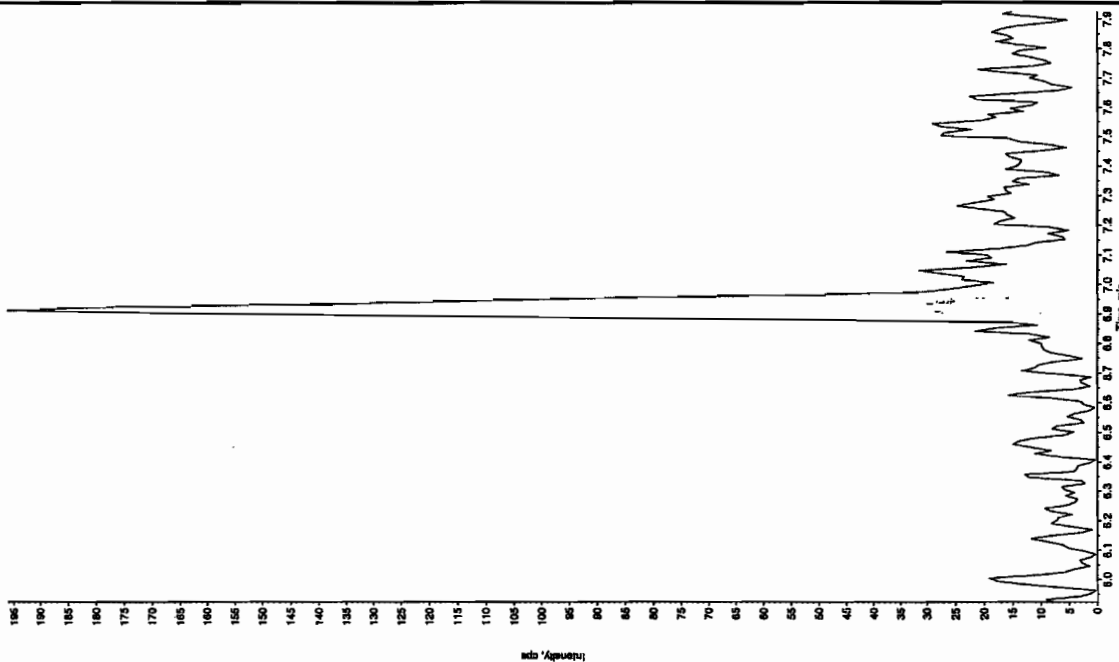
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 9:08:51 AM

Modified: No



Sample Name: "XBLX16" Sample ID: "111ER" File: "EX03100160.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460 amu"

Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

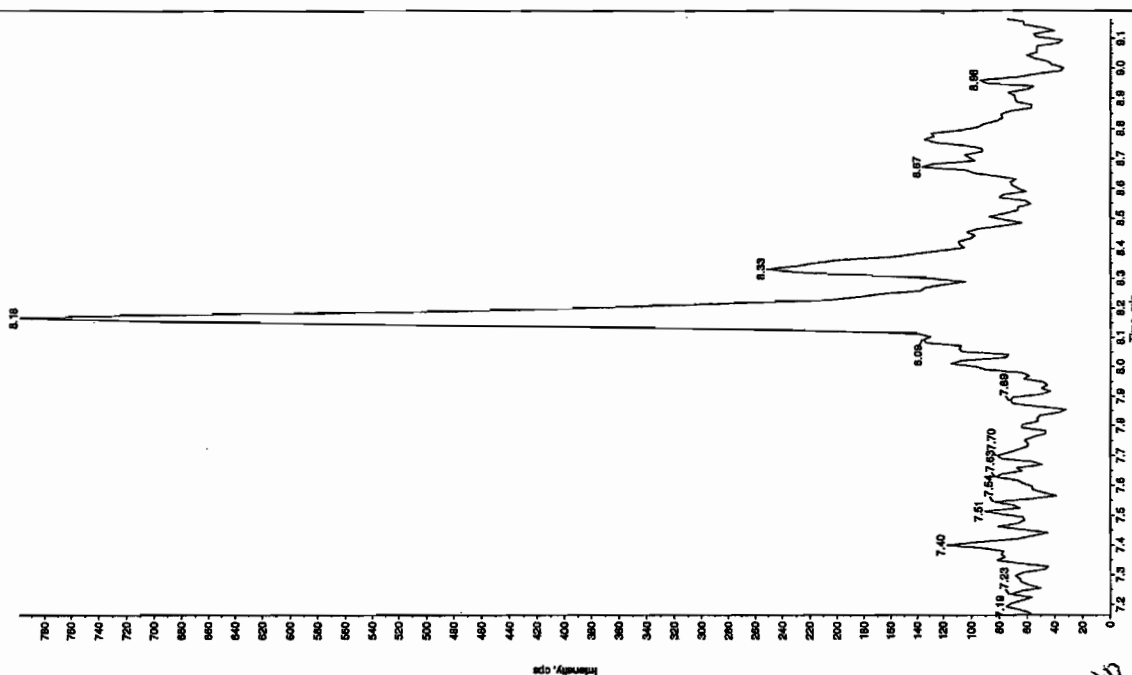
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 9:08:51 AM

Modified: No



Time 03/15/10

Sample Name: "XBLK16" Sample ID: "111ER" File: "EXS03100160.will"

Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

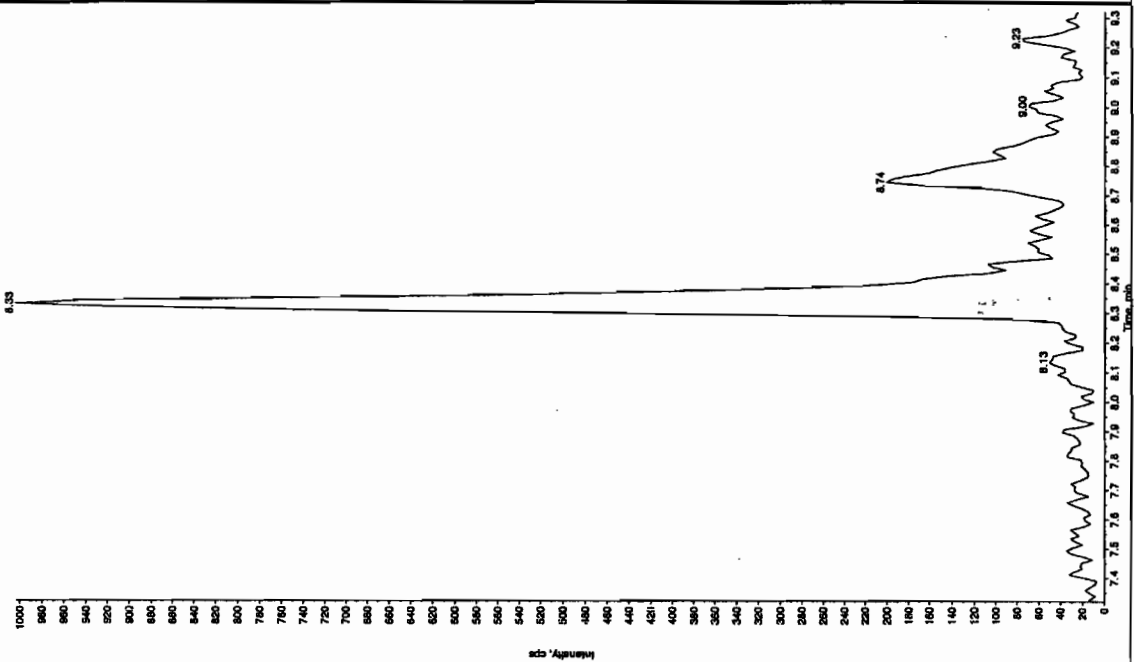
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 9:08:51 AM

Modified: No



Sample Name: "XBLK16" Sample ID: "111ER" File: "EXS03100160.will"

Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "168.0/168.0 amu"

Comment: "LCMSEXP\_B" Annotation: ""

Sample Index: 1

Sample Type: Unknown

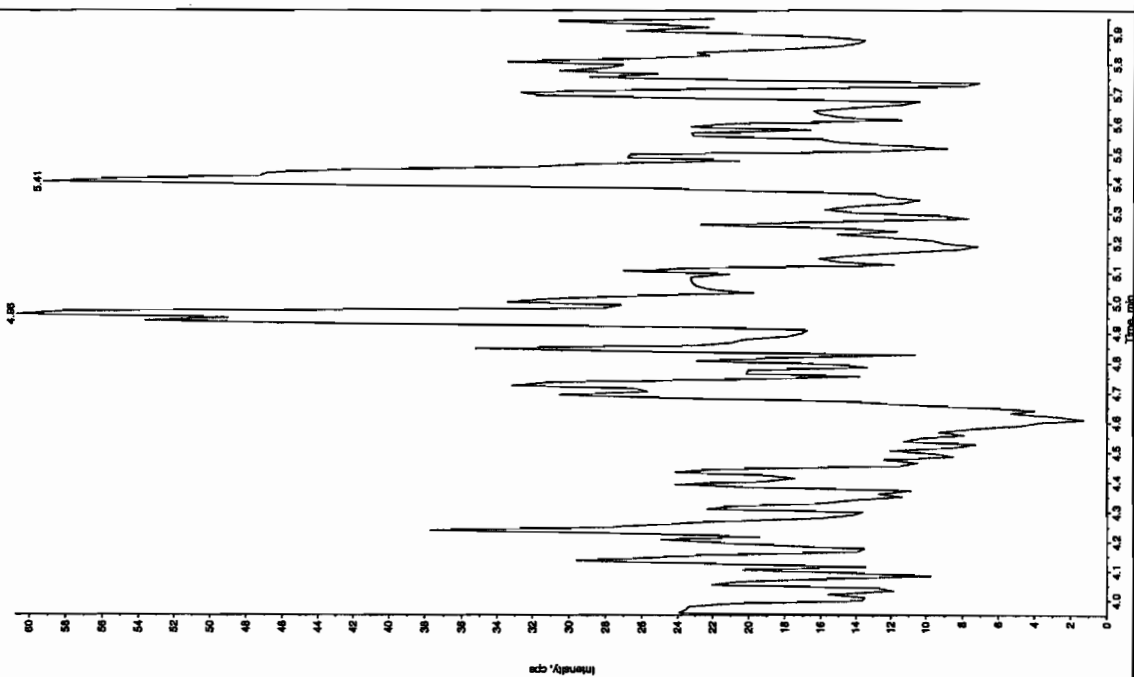
Concentration: N/A

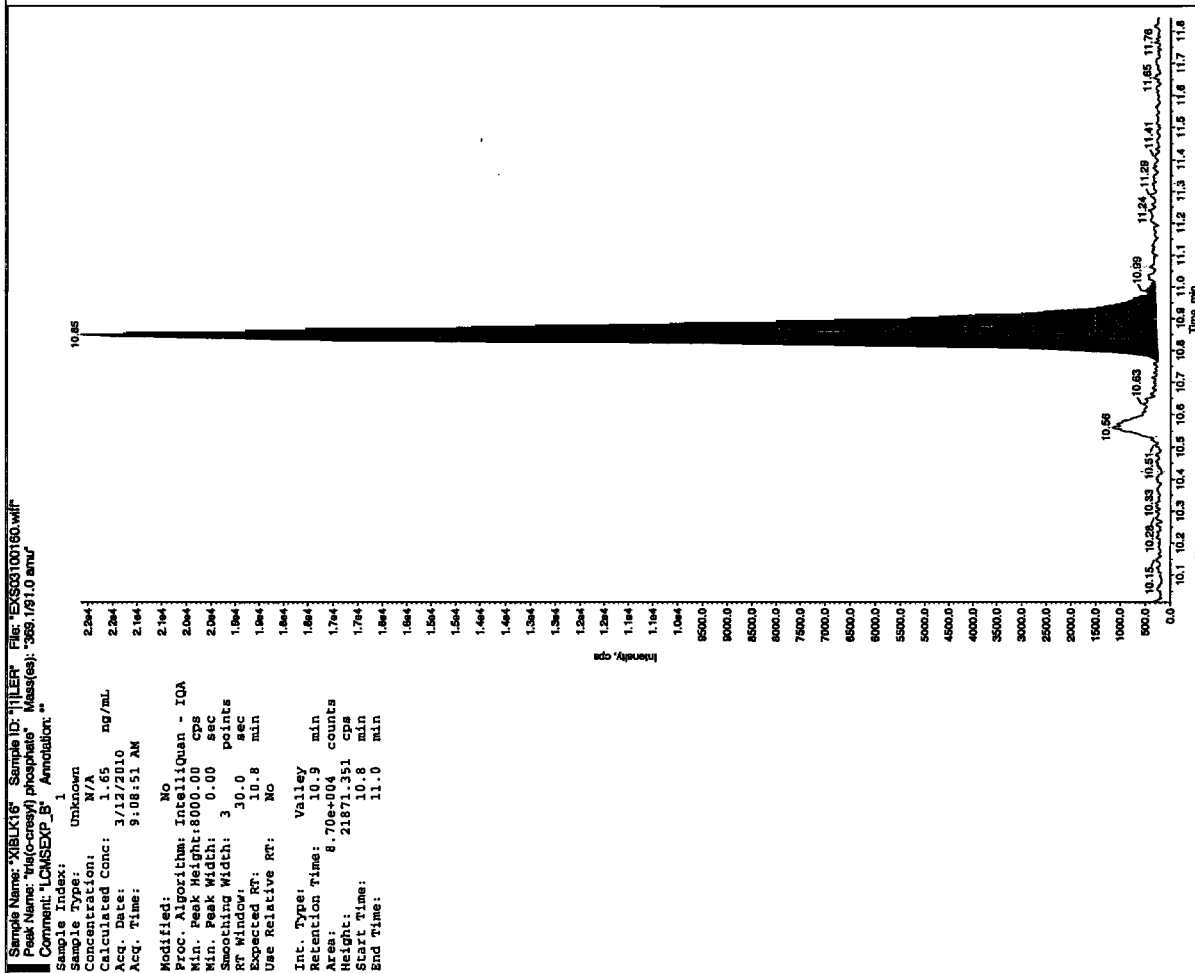
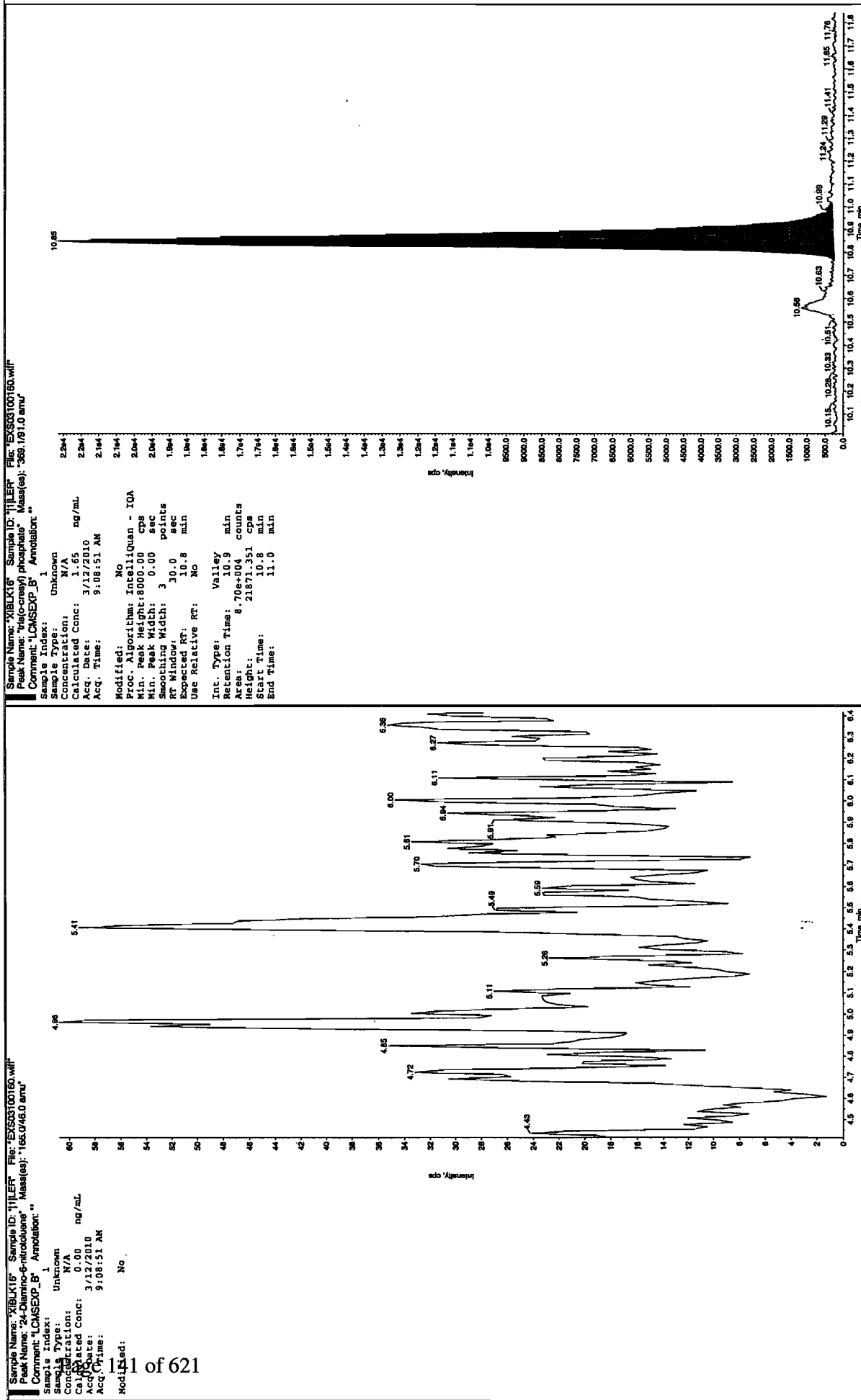
Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 9:08:51 AM

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

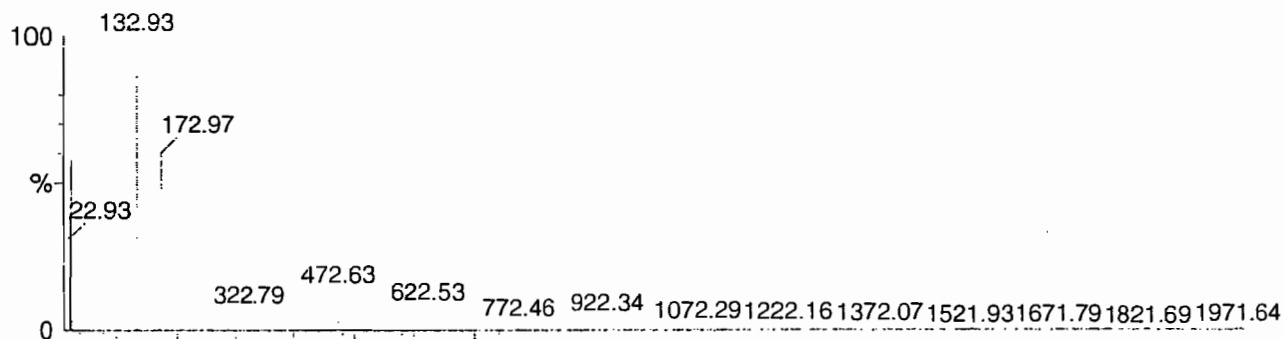
Calibration Report - MS1 Static

Page 1 of 1

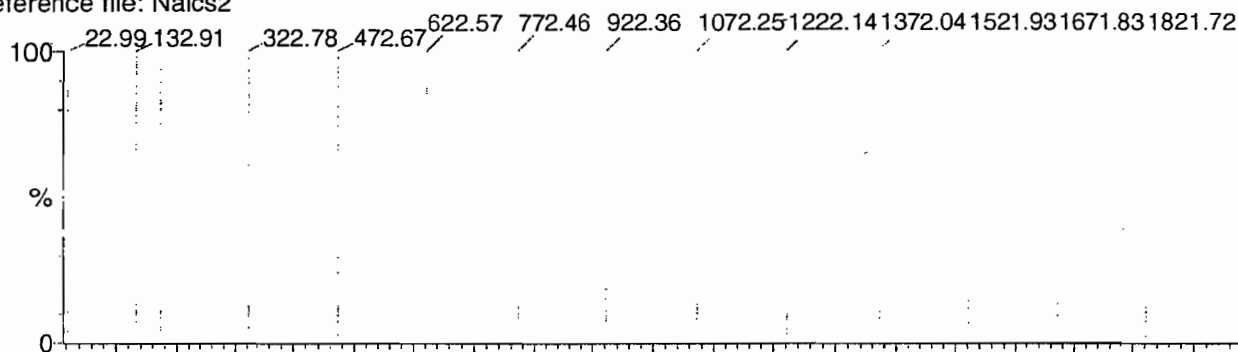
Printed: Fri Aug 25 10:50:01 2006

Data file: STATMS1 - Calibrated

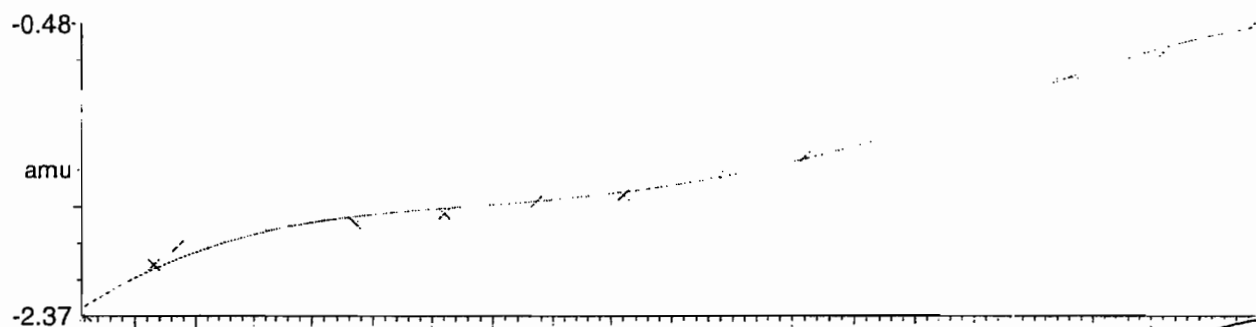
15 matches of 15 tested references



Reference file: Naics2

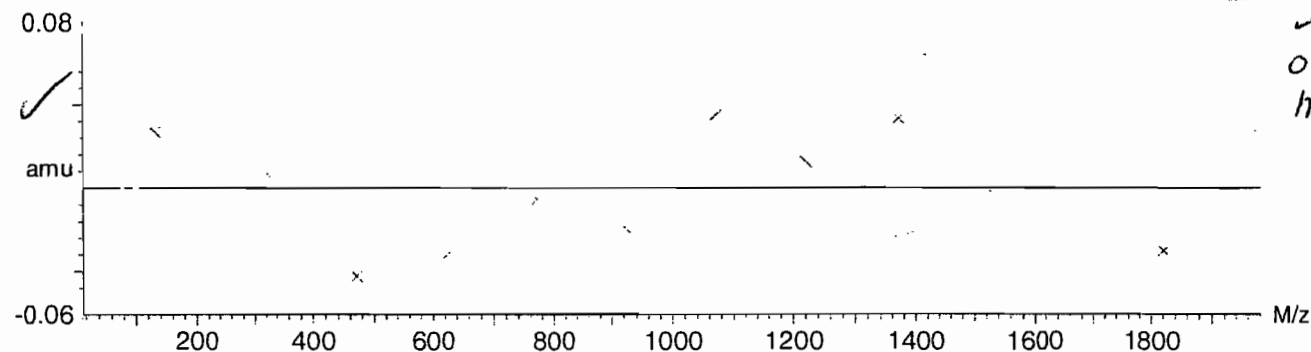


Mass difference (Raw - Ref mass)



Residuals

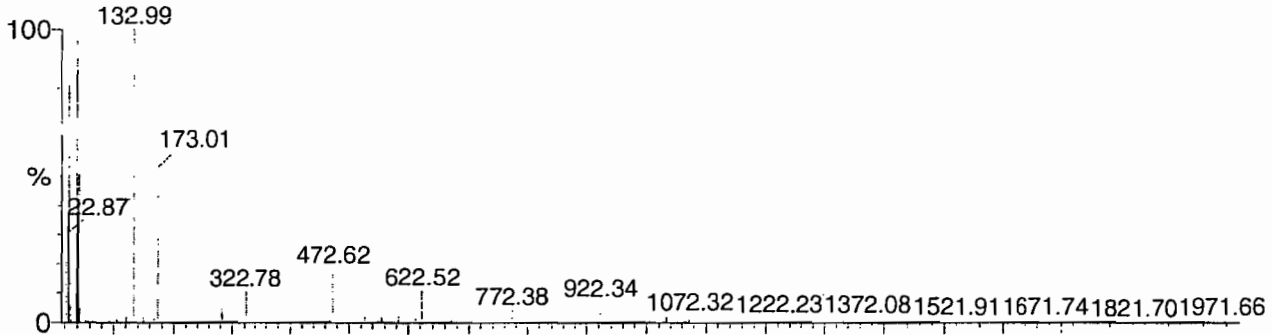
Mean residual =  $-1.673470 \times 10^{-9} \pm 0.036953$



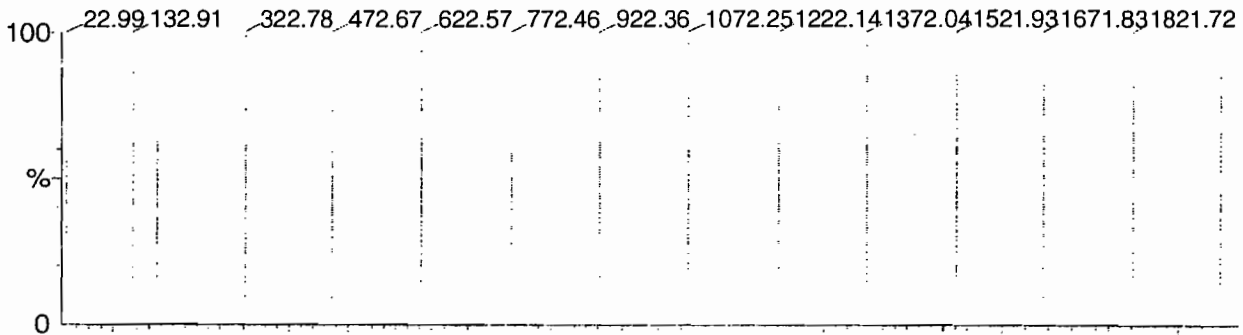
Printed: Fri Aug 25 10:51:06 2006

Data file: SCNMS1 - Calibrated

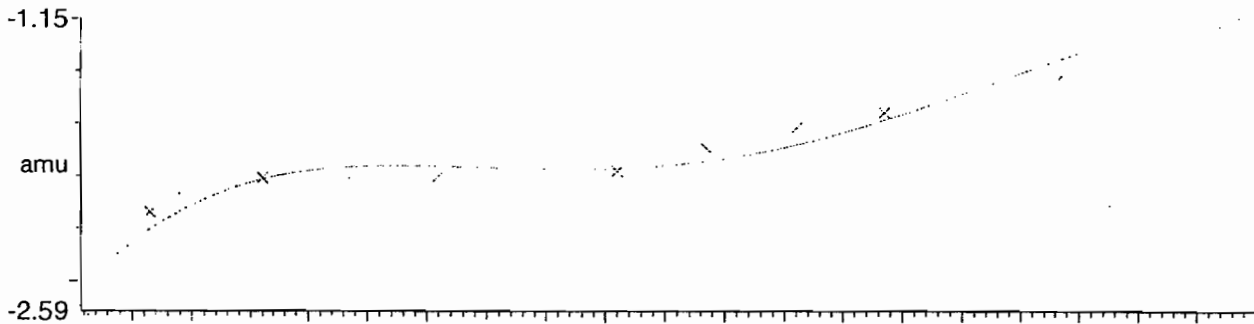
15 matches of 15 tested references



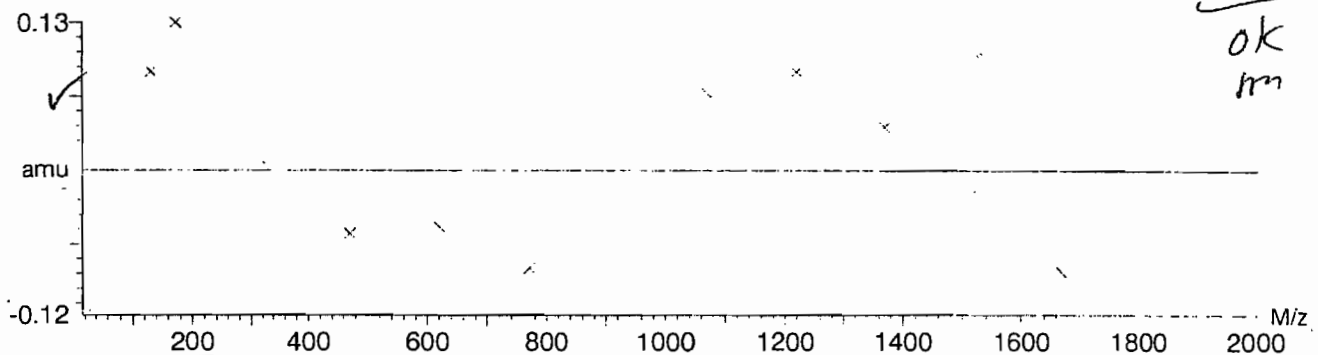
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals

Mean residual =  $-5.432715e-9 \pm 0.069858$ ok  
m



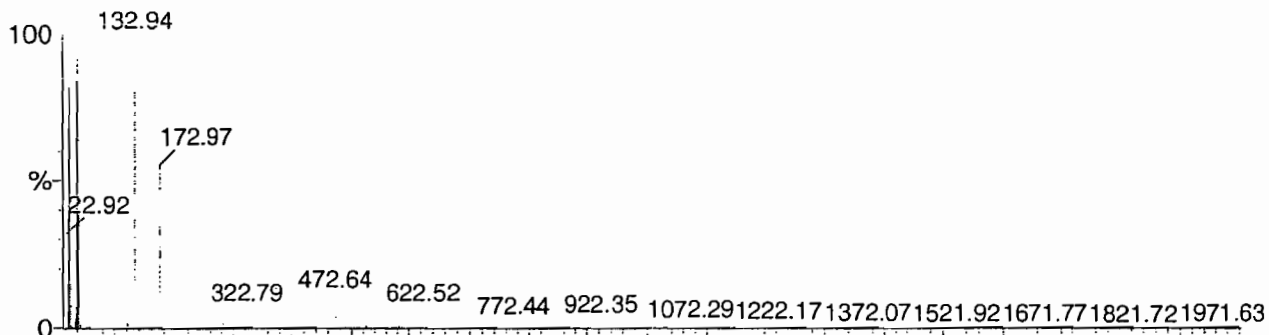
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

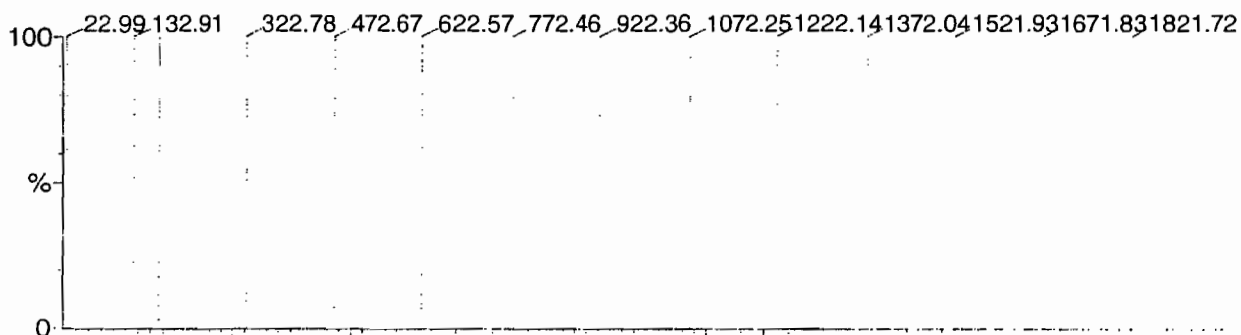
Printed: Fri Aug 25 10:52:01 2006

Data file: FASTMS1 - Calibrated

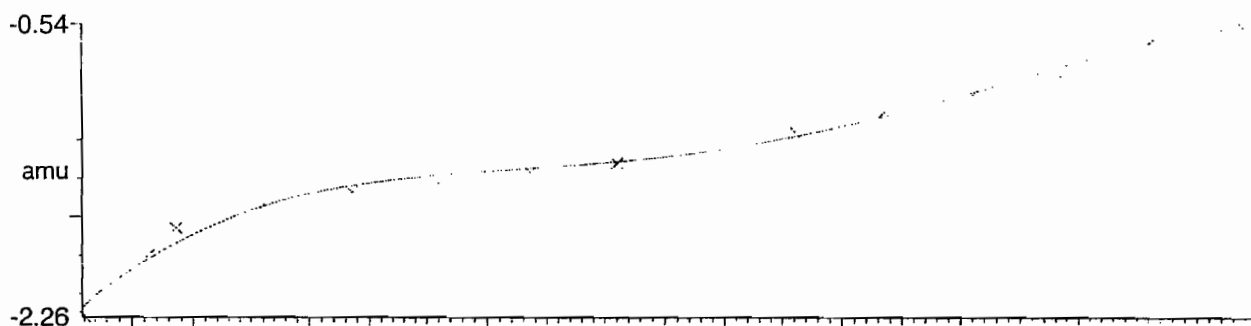
15 matches of 15 tested references



Reference file: Naics2

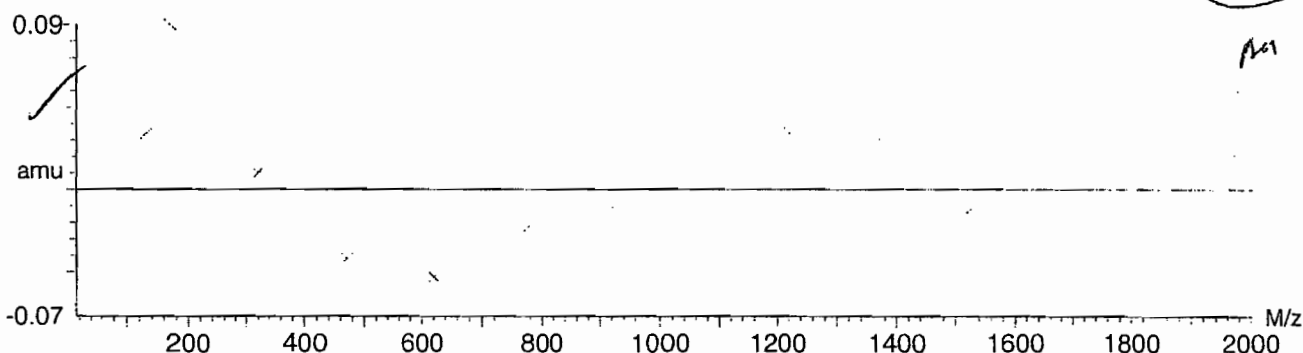


Mass difference (Raw - Ref mass)



Residuals

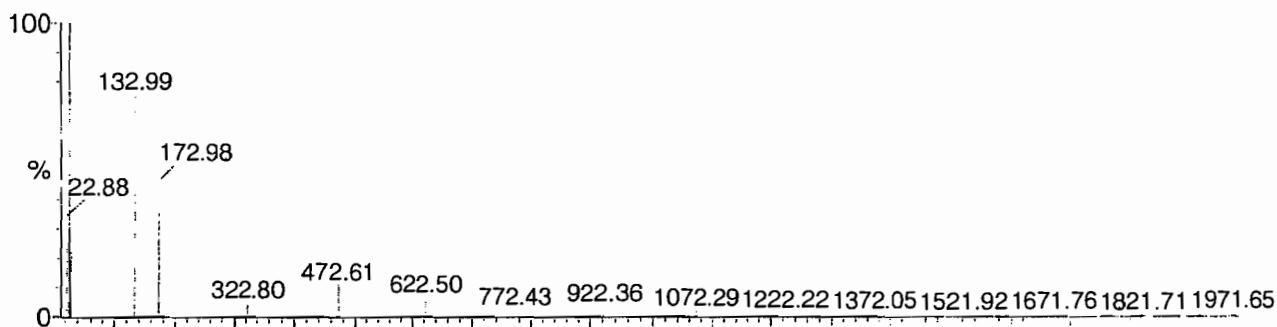
Mean residual =  $3.486639 \times 10^{-9} \pm 0.040487$



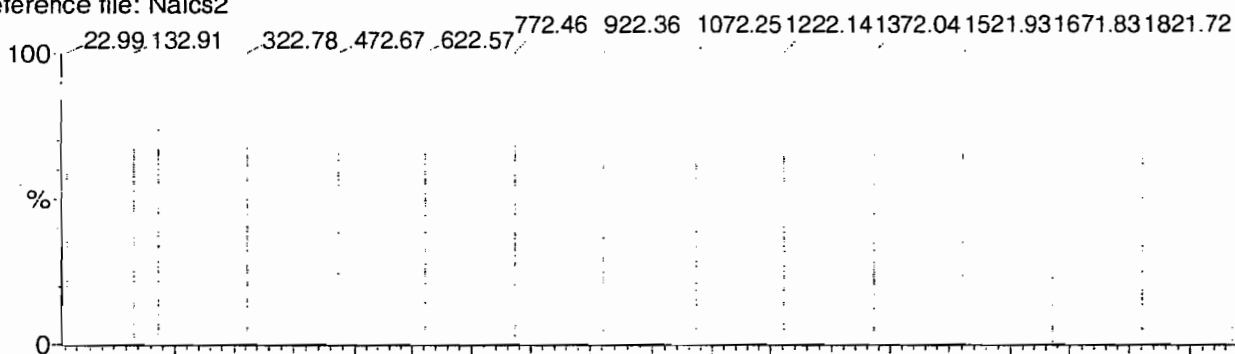
Printed: Fri Aug 25 10:52:54 2006

Data file: STATMS2 - Calibrated

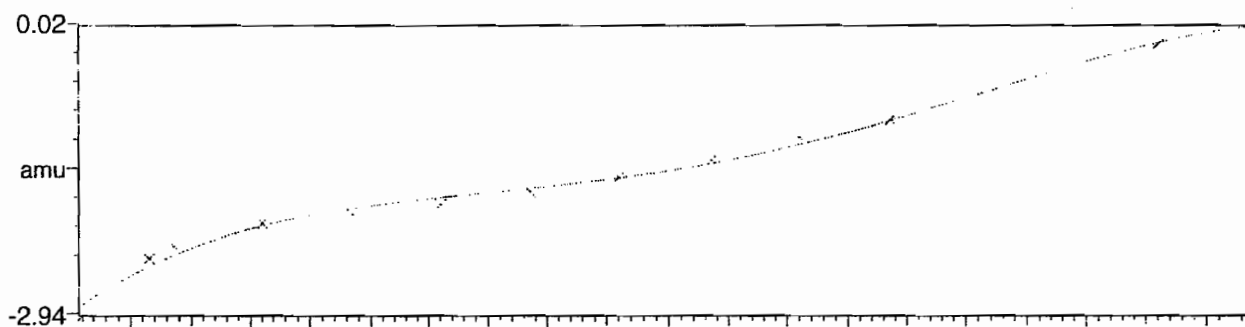
15 matches of 15 tested references



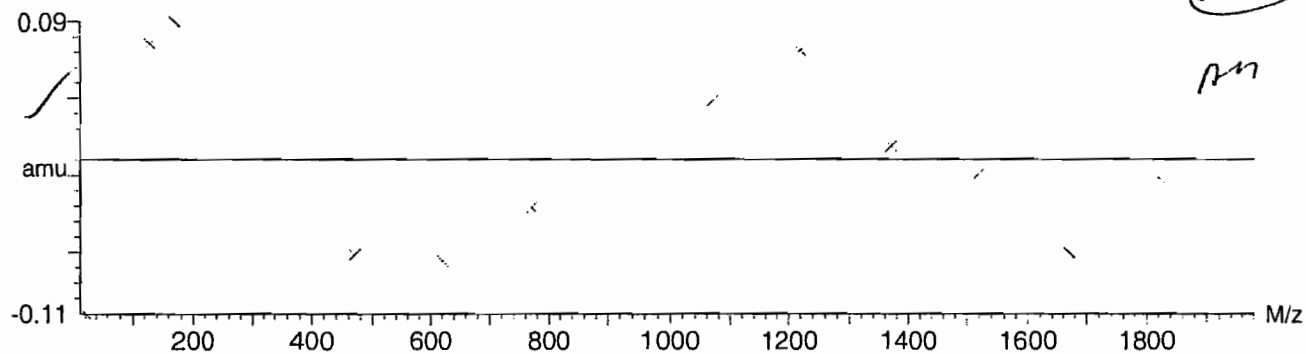
Reference file: Naics2



Mass difference (Raw - Ref mass)



Residuals

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

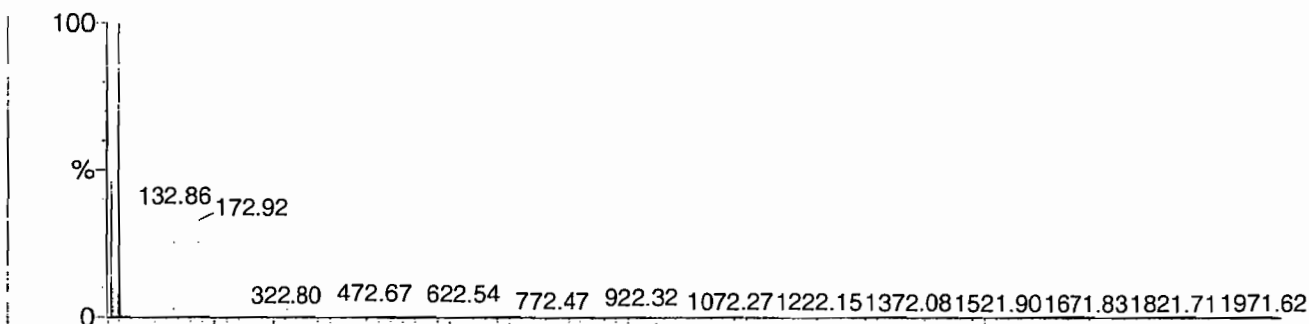
Calibration Report - MS2 Scanning

Page 1 of 1

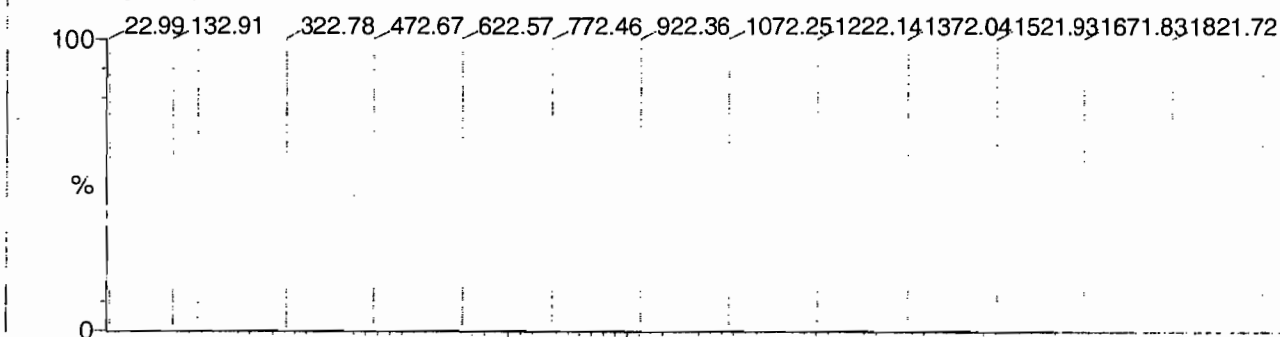
Printed: Fri Aug 25 10:54:00 2006

Data file: SCNMS2 - Calibrated

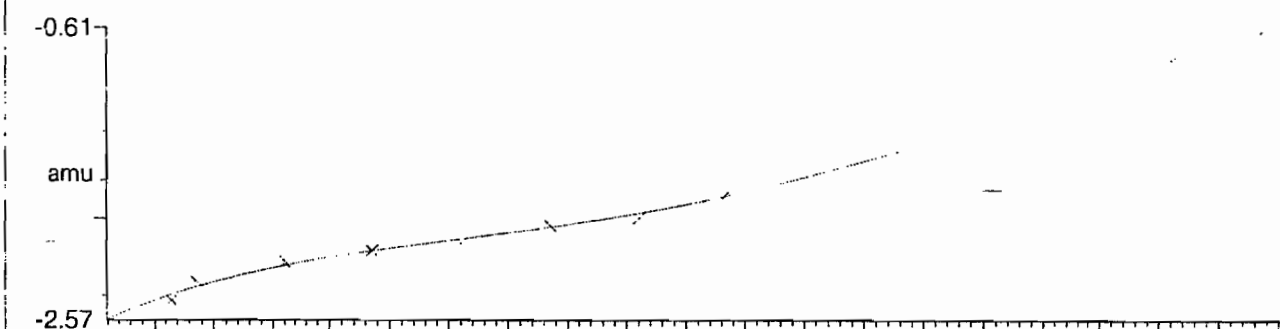
14 matches of 15 tested references



Reference file: Naics2

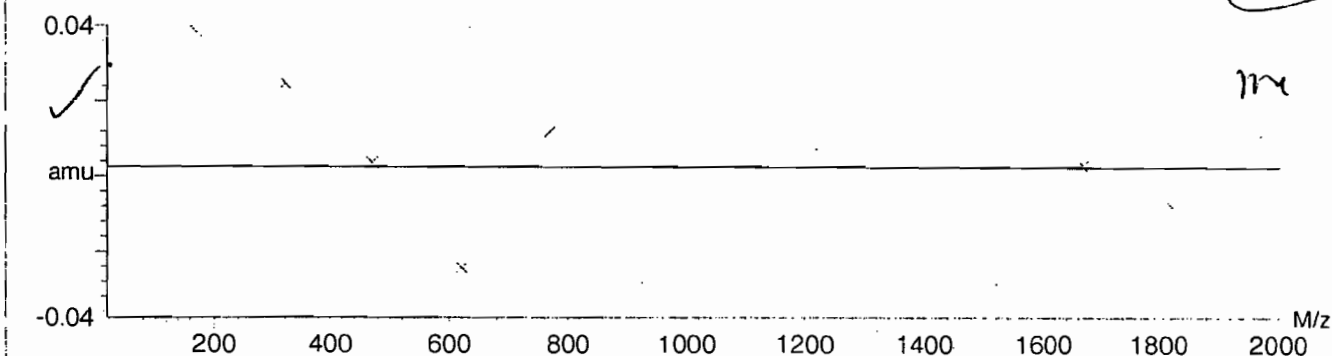


Mass difference (Raw - Ref mass)



Residuals

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



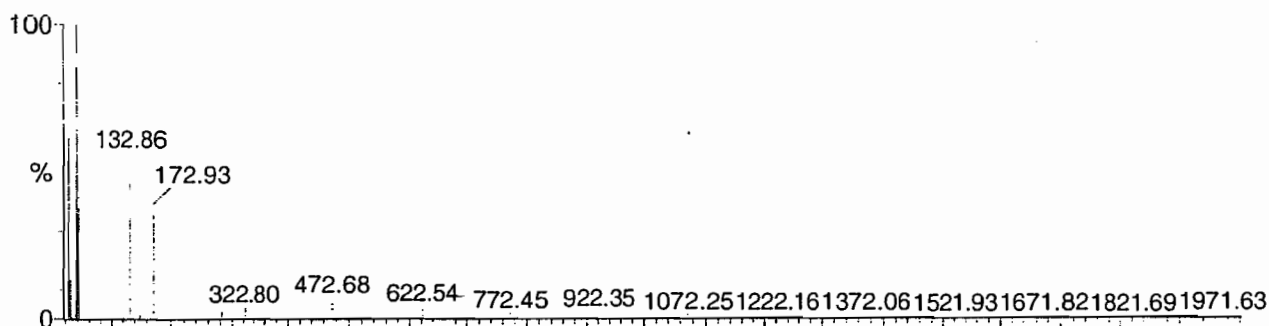
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

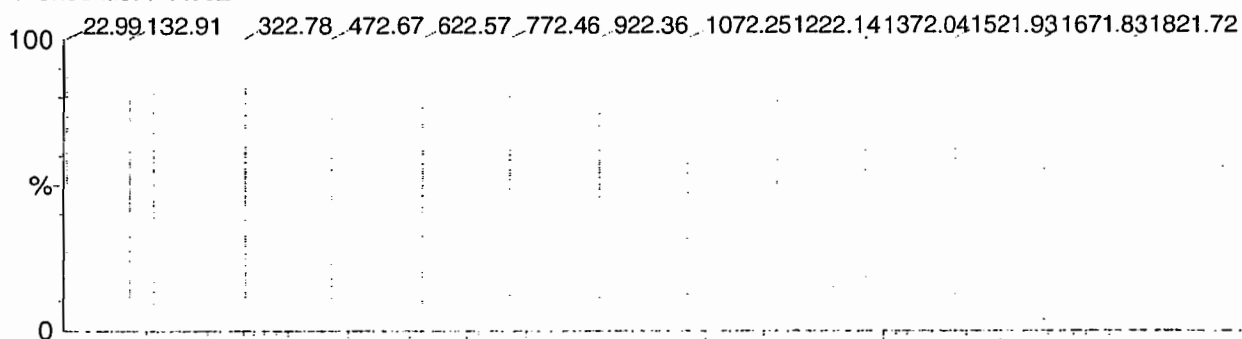
Printed: Fri Aug 25 10:54:54 2006

Data file: FASTMS2 - Calibrated

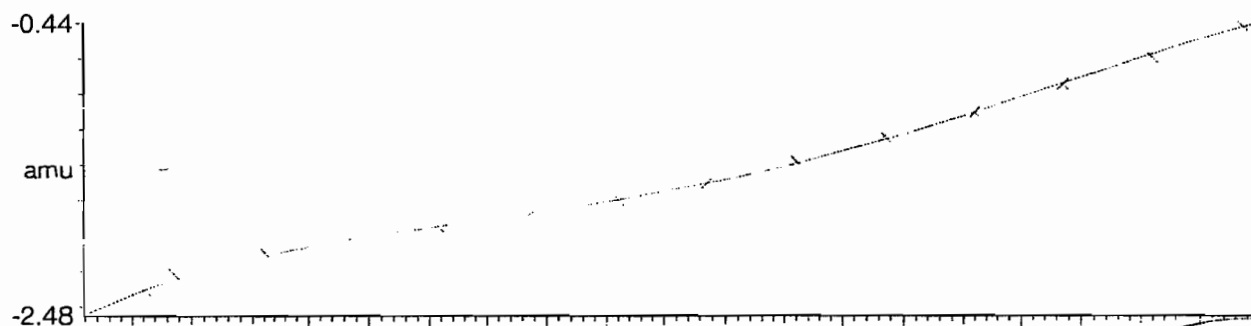
14 matches of 15 tested references



Reference file: Naics2

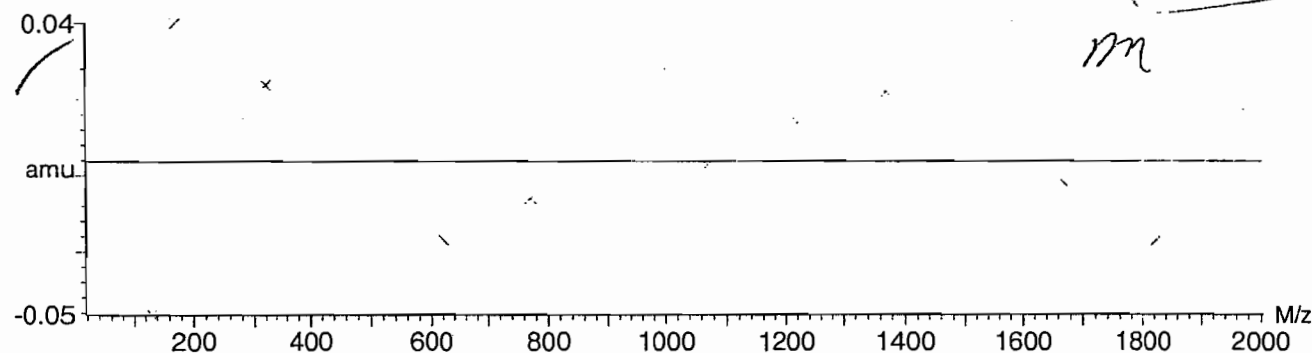


Mass difference (Raw - Ref mass)



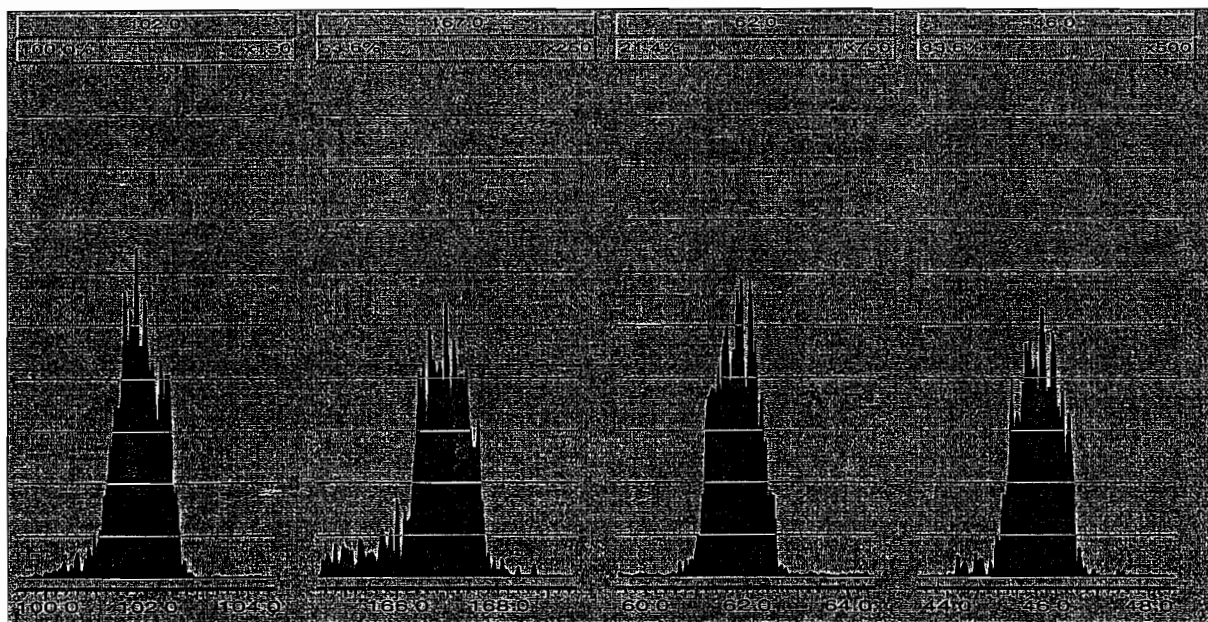
Residuals

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



## Page 1

Printed : Mon Apr 12 14:40:37 2010



## High Explosives Internal Standard Summary

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1908Lab Code: GELHPLC Column: Phenomenex Ultracarb 5u ODS(20)Instrument ID: LCMSMS

	Analysis Date/Time	GEL Data File	IS1 (DNB) (Area) #	RT (min) #	IS2 (DNT) (Area) #	RT2 (min) #
			5880.363	11.868	34983.183	17.054
Upper Limit			7644.4719	12.368	45478.1379	17.554
Lower Limit			4116.2541	11.368	24488.2281	16.554
MB for batch 955062	12-apr-10 21:34	EXP0412013a	6169.82	11.92	37873.2	17.094
LCS for batch 955062	12-apr-10 22:04	EXP0412014a	6567.72	11.867	40283.7	17.05
RE15-10-8208	13-apr-10 04:27	EXP0412027a	5717.05	11.865	35825.1	17.061
RE15-10-8203	13-apr-10 04:56	EXP0412028a	5927.34	11.868	35231.5	17.05
RE15-10-8206	13-apr-10 05:26	EXP0412029a	6389.8	11.868	35088.7	17.05
RE15-10-8207	13-apr-10 05:55	EXP0412030a	5956.25	11.868	36735.2	17.051
RE15-10-8204	13-apr-10 06:25	EXP0412031a	5708.12	11.865	33749.9	17.061
RE15-10-8202	13-apr-10 06:54	EXP0412032a	5727.02	11.868	34688.7	17.05
RE15-10-8209	13-apr-10 07:24	EXP0412033a	5634.68	11.867	33178.5	17.05
RE15-10-8205	13-apr-10 07:53	EXP0412034a	5500.45	11.868	34723.3	17.05
RE15-10-8227	13-apr-10 08:23	EXP0412035a	6047.95	11.868	36944.3	17.05
RE15-10-8228	13-apr-10 10:21	EXP0412039a	5973.91	11.868	35648.7	17.05
RE15-10-8212	13-apr-10 10:50	EXP0412040a	6846.34	11.865	40061.3	17.061

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: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412027a

Date Analyzed: 13-APR-10 04:27

Units: ug/kg

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

\*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\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\data\EXP0412027a

Date: 13-Apr-2010

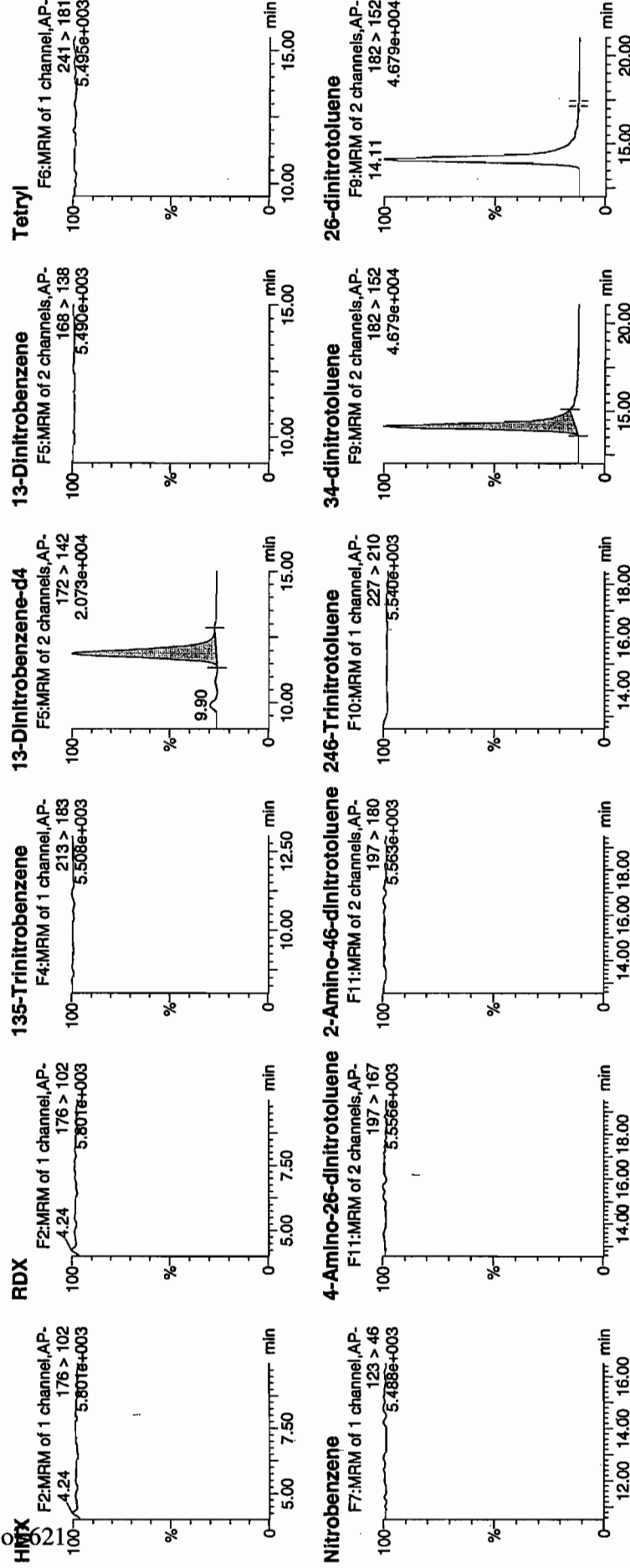
Time: 04:27:20

ID: 247343001

View: 2:2,F

1477  
4/13/10

WAV 955063 / 8022 / 21



4/14/10

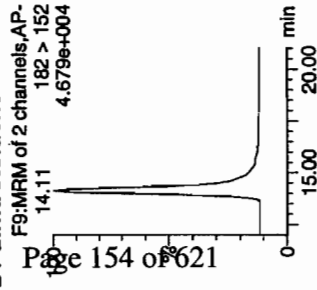
# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

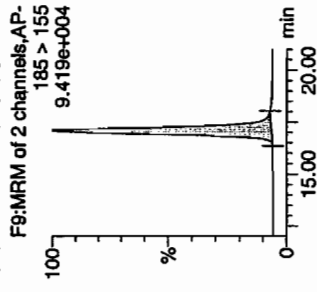
Printed: Tue Apr 13 11:14:26 2010, Page 54 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

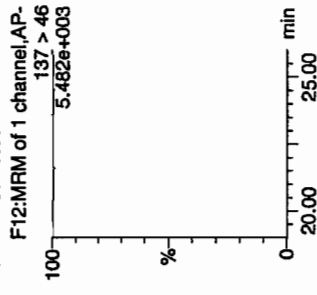
## 24-dinitrotoluene



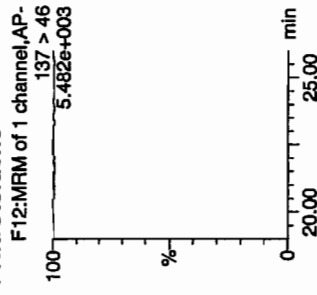
## 26-dinitrotoluene-d3



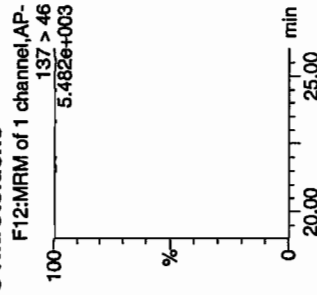
## 2-Nitrotoluene



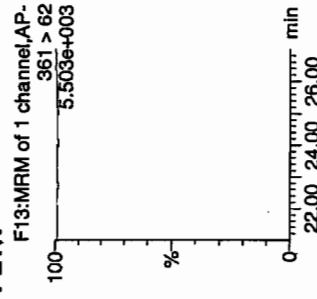
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	RT	Area	SI Area	Abs Resp	Response	Flags	Mod Date	Mod Time	% Norm	% Rec	% Dev	SN
247343001	HMX	176 > 102			5717.046									
247343001	RDX	176 > 102			5717.046									
247343001	135-Trinitrobenzene	213 > 183			5717.046									
247343001	13-Dinitrobenzene-d4	172 > 142	11.86	5717.046		5717.046	5717.046	bb			486.1133	97.2	-2.8	554.9
247343001	13-Dinitrobenzene	168 > 138			5717.046									
247343001	Tetryl	241 > 181			5717.046									
247343001	Nitrobenzene	123 > 46			5717.046									
247343001	4-Amino-26-dinitrotoluene	197 > 167			35825.094									
247343001	2-Amino-46-dinitrotoluene	197 > 180			35825.094									
247343001	246-Trinitrotoluene	227 > 210			35825.094									
247343001	34-dinitrotoluene	182 > 152	14.11	17191.621	35825.094	17191.621	239.938	bb			232.6950	93.1	-6.9	1056.0
247343001	26-dinitrotoluene	182 > 152			35825.094									
247343001	24-dinitrotoluene	182 > 152			35825.094									
247343001	26-dinitrotoluene-d3	185 > 155	17.06	35825.094	35825.094	35825.094	35825.094	bb			512.0331	102.4	2.4	4619.8
247343001	2-Nitrotoluene	137 > 46			35825.094									
247343001	4-Nitrotoluene	137 > 46			35825.094									
247343001	3-Nitrotoluene	137 > 46			35825.094									
247343001	PETN	361 > 62			35825.094									

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8208

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343001

Sample Amount 2

Moisture: 3.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100145.wiff

Date Analyzed: 12-MAR-10 05:12

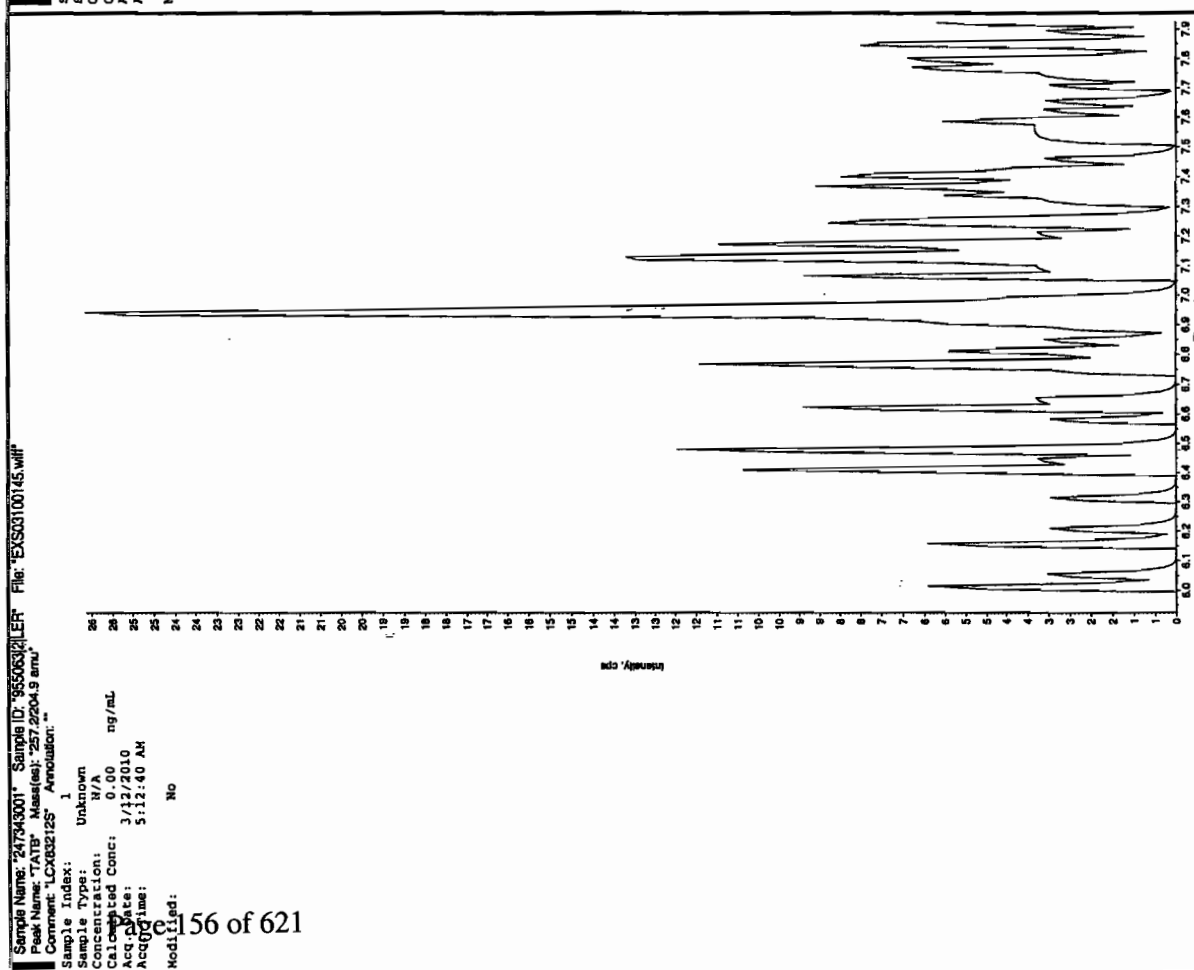
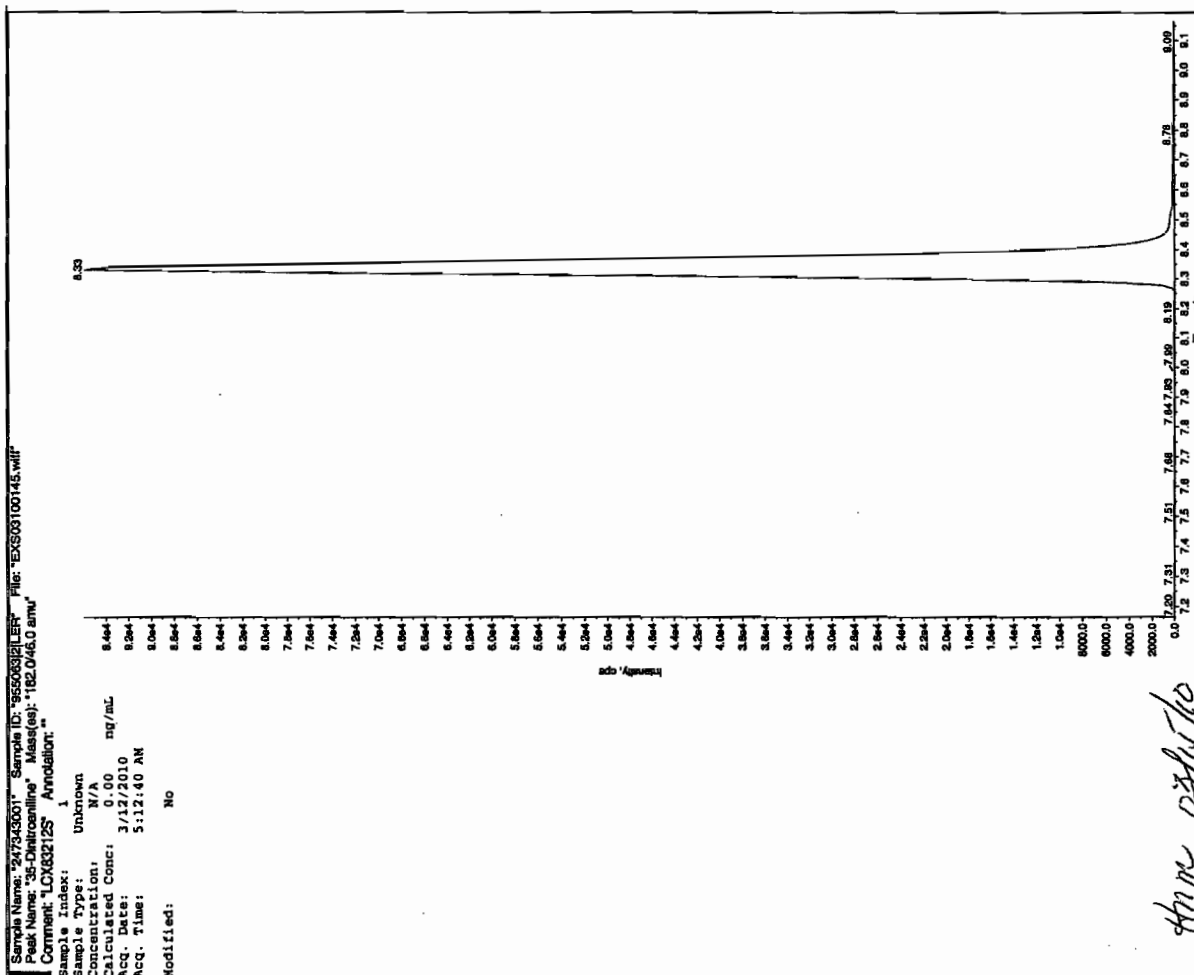
Units: ug/kg

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 =

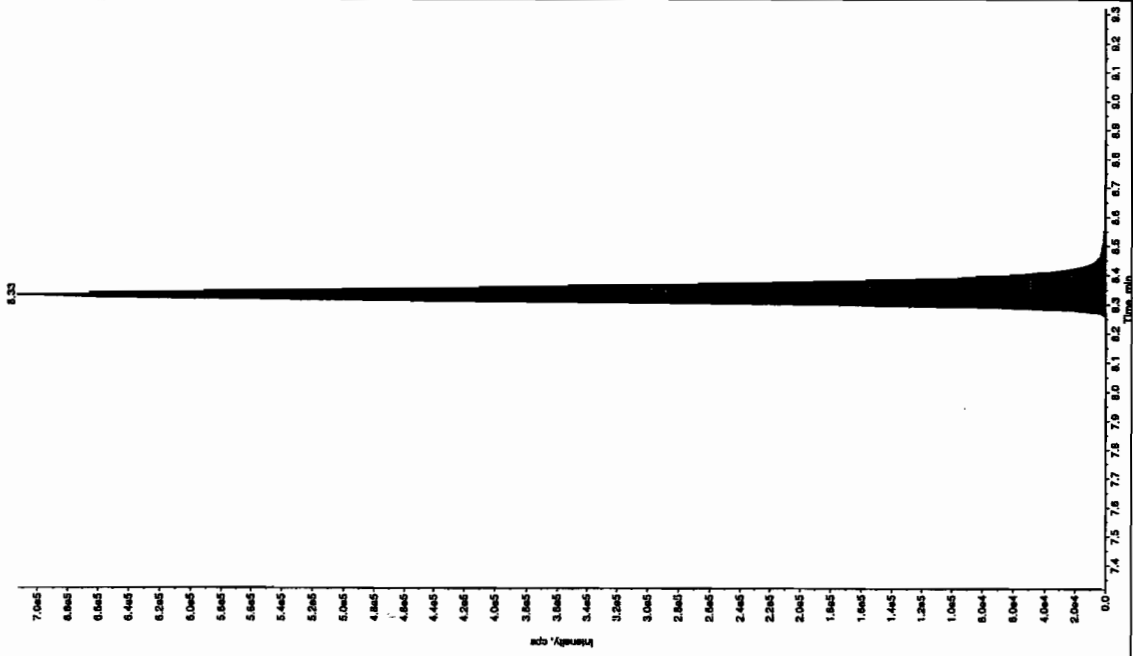
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$  X Dilution Factor

See 3/14/10



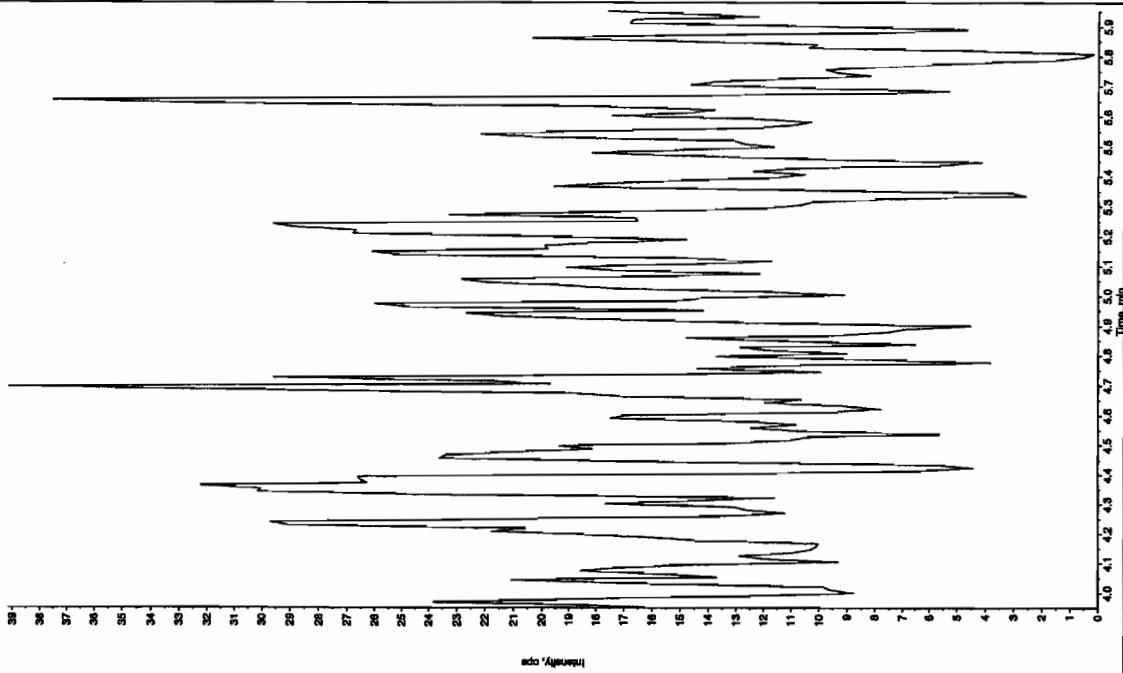
Sample Name: "247343001" Sample ID: "555032125" File: "EVS03100145.wiff"  
Peak Name: "54-Dihydrochlova" Mass(es): "182.1/151.9 amu"  
Comment: "LCX632125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 268. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 5:12:40 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 1460.00 cps  
Min. Peak Width: 3.00 sec  
Smoothing Width: 3 points  
ST Window: 15.0 sec  
Expected RT: 8.32 min  
Use Ret. Time: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 2.70e+006 counts  
Height: 713153.076 cps  
Start Time: 8.21 min  
End Time: 8.69 min



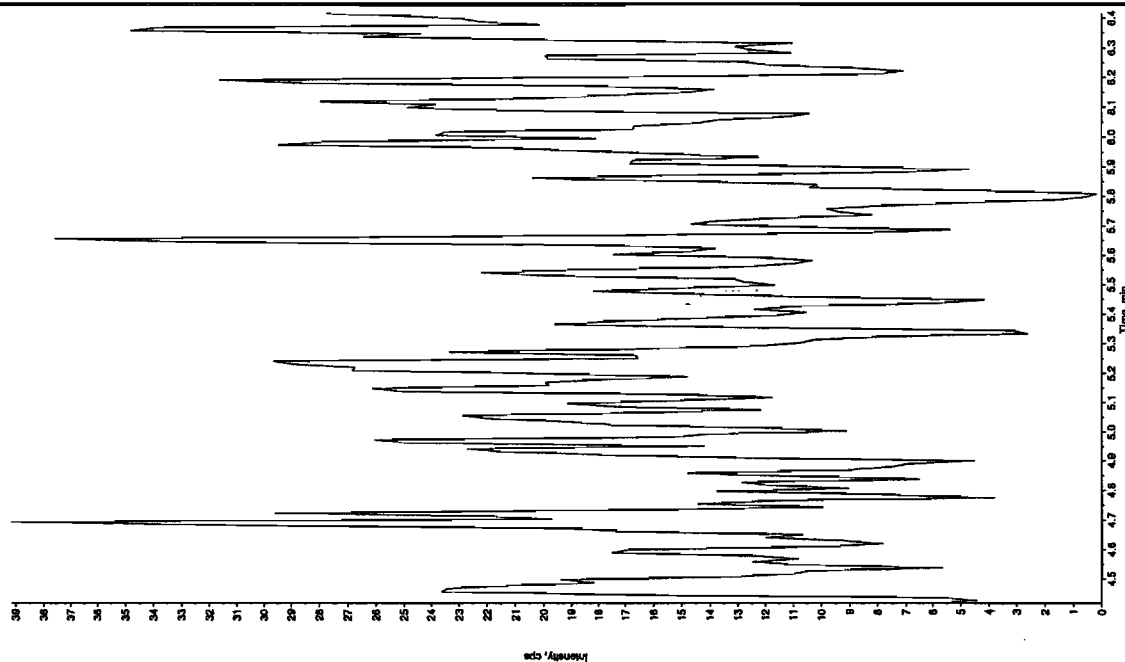
Sample Name: "247343001" Sample ID: "555032125" File: "EVS03100145.wiff"  
Peak Name: "26-Dichloro-4-nitrobenzot" Mass(es): "166.0/46.0 amu"  
Comment: "LCX632125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 5:12:40 AM  
Modified: No



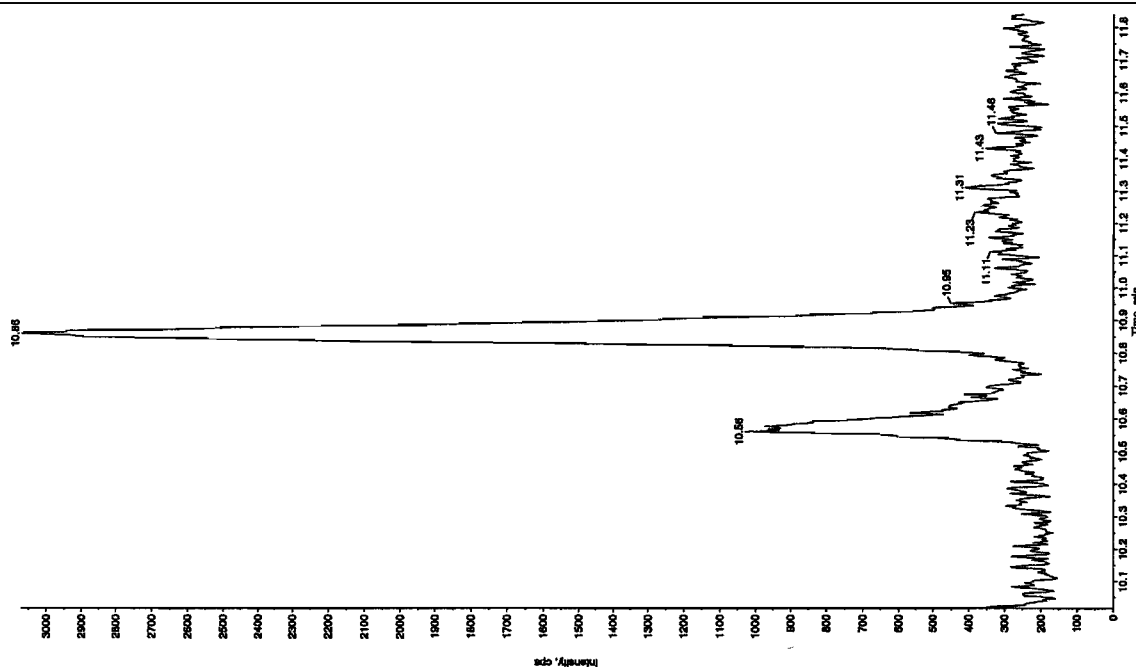
Sample Name: "247343001" Sample ID: "955063212" File: "EXS03100145.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 5:12:40 AM  
Modified: No



Sample Name: "247343001" Sample ID: "955063212" File: "EXS03100145.wif"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "369.191.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 5:12:40 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8203

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343002

Sample Amount 2

Moisture: 1.1

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412028a

Date Analyzed: 13-APR-10 04:56

Units: ug/kg

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

\*Concentration =

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

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 55 of 77

Dataset: C:\MASSLYNX\New\_Exp\PROJ041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP\PROJ041210expA\EXP0412028a

Date: 13-Apr-2010

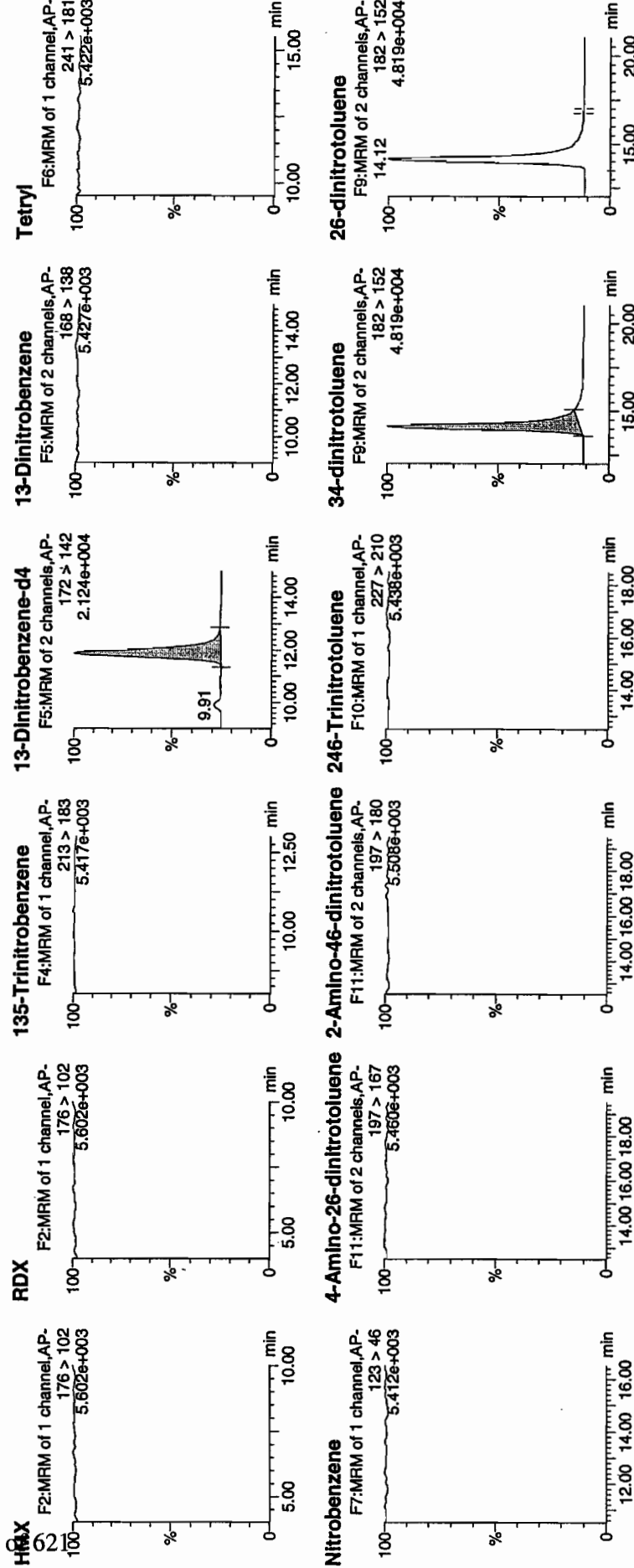
Time: 04:56:48

ID: 247343002

Vol: 2:3.A

u77  
4/13/10

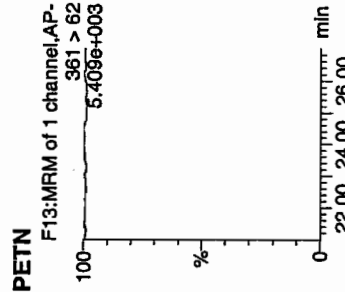
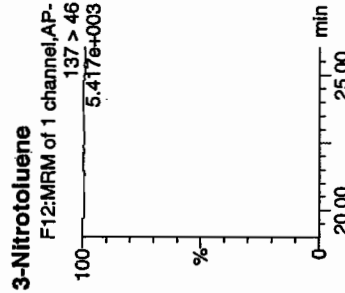
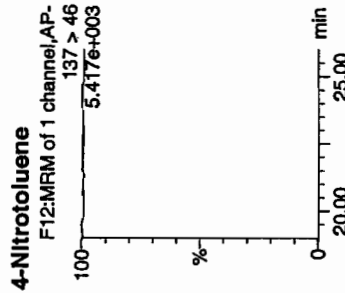
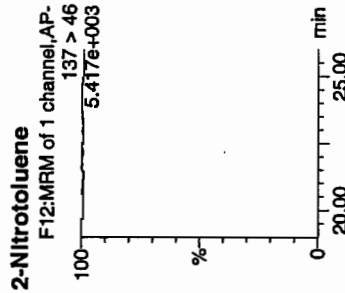
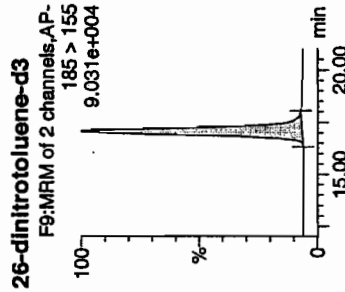
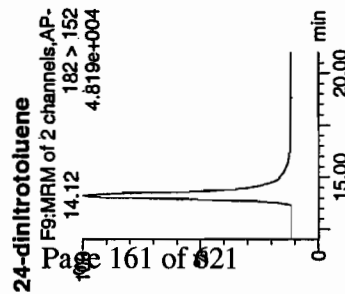
LANC 955063 / 21



Amw 04/14/10



Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	Area	IS Area	Absl Resp	Response	Flags	Mod Date	Mod Time	Inj Vol	% Rec	% Dev	SN
247343002	HMx	176 > 102		5927.343									
247343002	RDX	176 > 102		5927.343									
247343002	135-Trinitrobenzene	213 > 183		5927.343									
247343002	13-Dinitrobenzene-d4	172 > 142	11.87	5927.343	5927.343	5927.343	bb			503.9946	100.8	0.8	2507.5
247343002	13-Dinitrobenzene	168 > 138		5927.343									
247343002	TeiryI	241 > 181		5927.343									
247343002	Nitrobenzene	123 > 46		5927.343									
247343002	4-Amino-26-dinitrotoluene	197 > 167		35231.457									
247343002	2-Amino-46-dinitrotoluene	197 > 180		35231.457									
247343002	246-Trinitrotoluene	227 > 210		35231.457									
247343002	34-dinitrotoluene	182 > 152	14.12	17971.018	17971.018	255.042	bb			247.3430	98.9	-1.1	563.3
247343002	26-dinitrotoluene	182 > 152		35231.457			MM-	13-Apr-10	11:08:17				
247343002	24-dinitrotoluene	182 > 152		35231.457									
247343002	26-dinitrotoluene-d3	185 > 155	17.05	35231.457	35231.457	35231.457	bb			503.5485	100.7	0.7	2390.1
247343002	2-Nitrotoluene	137 > 46		35231.457									
247343002	4-Nitrotoluene	137 > 46		35231.457									
247343002	3-Nitrotoluene	137 > 46		35231.457									
247343002	PETN	361 > 62		35231.457									

**1**  
**High Explosives Analysis Data Sheet**

**Lab Name:** GEL Laboratories LLC

**Client Sample ID:** RE15-10-8203

**Lab Code:** GEL

**GEL Job No (SDG)** 10-1908

**Matrix:** SOIL

**GEL Sample ID:** 247343002

**Sample Amount** 2

**Moisture:** 1.1

**Amount Units** g

**Date Received:** 18-FEB-10

**Extraction Type** Sonication

**Extraction Batch ID:** 955062

**Concentrated Extract Volume (mL)** 10

**Date Extracted:** 24-FEB-10

**Dilution Factor:** 2

**Injection Volume (uL):** 50

**GEL data file:** EXS03100146.wiff

**Date Analyzed:** 12-MAR-10 05:28

**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		

Rev 3/14/10

Sample Name: "247343002" Sample ID: "555053121" File: "EX503100146.wif"

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

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

Concentration: 0.00 ng/mL

Calculated Conc: 3/12/2010

Acq. Date: 5:28:22 AM

Acq. Time: 5:28:22 AM

Modified: No

Sample Name: "247343002" Sample ID: "555053121" File: "EX503100146.wif"

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

Comment: "LCX832125" Annotation: ""

Sample Index: 1

Sample Type: Unknown

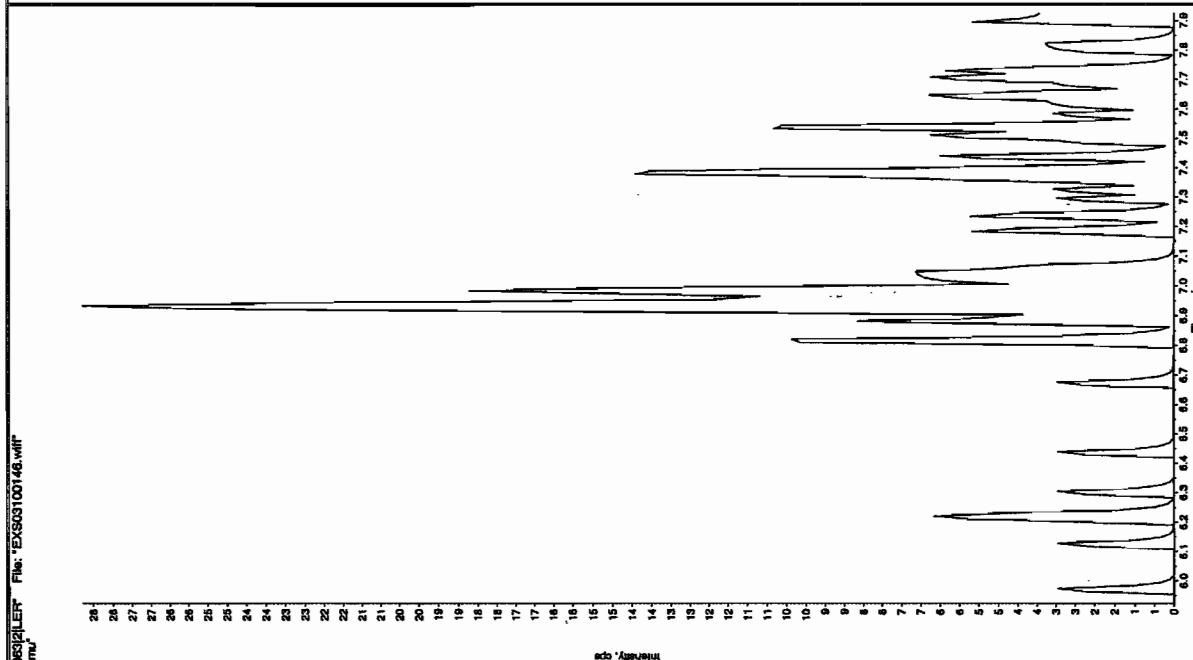
Concentration: 0.00 ng/mL

Calculated Conc: 3/12/2010

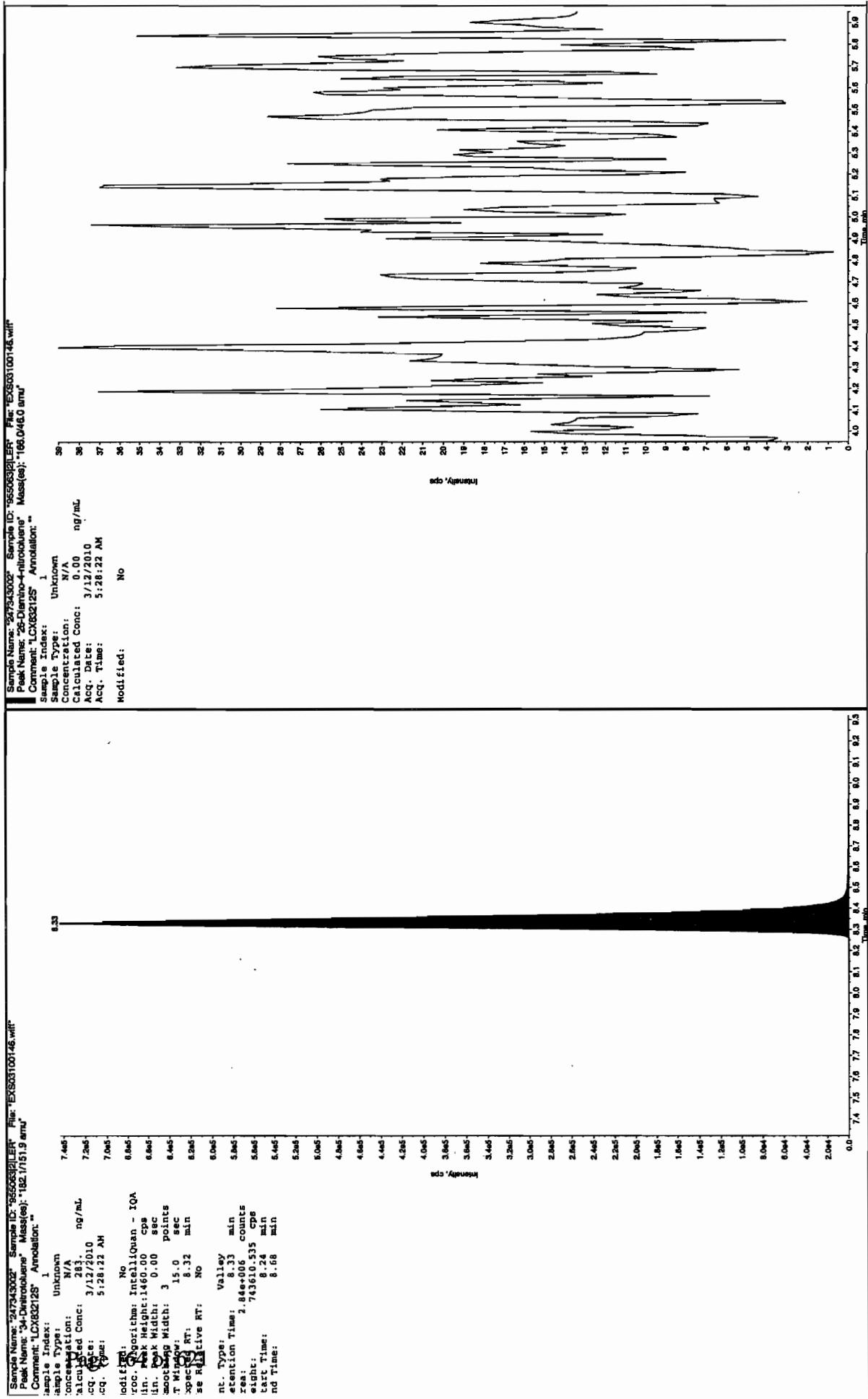
Acq. Date: 5:28:22 AM

Acq. Time: 5:28:22 AM

Modified: No

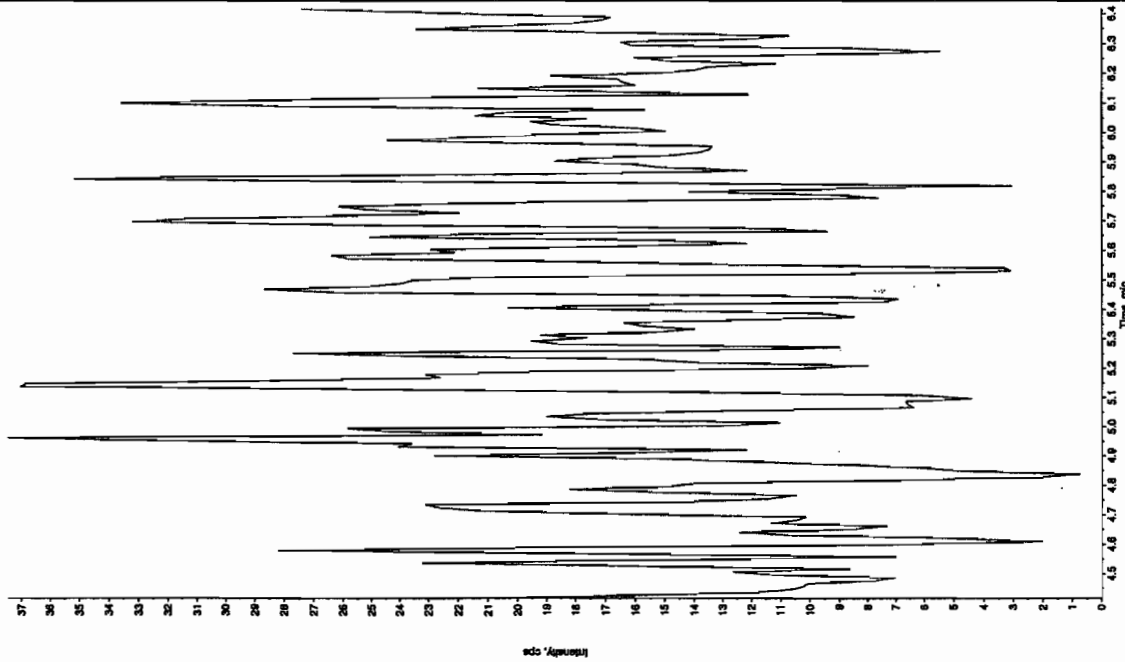


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



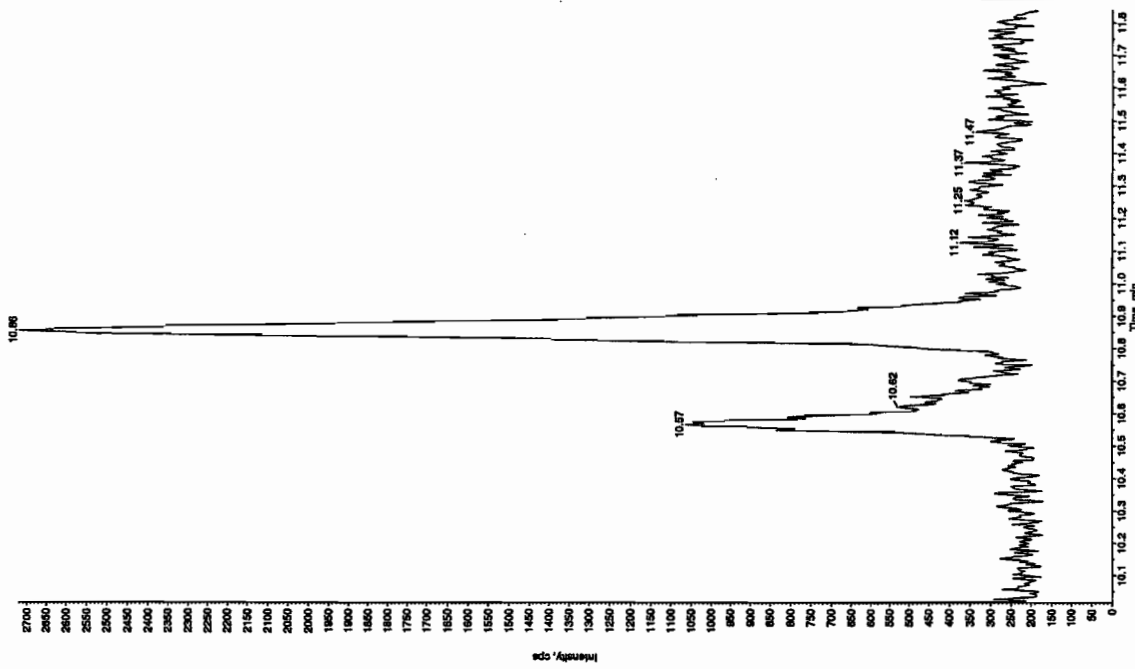
Sample Name: "247343002" Sample ID: "95506321.E" File: "EXS03100146.wif"  
Peak Name: "24-Diethyl-6-nitrofluorene" Mass(es): "166.0/46.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Injection: 3/12/2010  
Acq. Date: 5:28:22 AM  
Acq. Time: 5:28:22 AM  
Modified: No



Sample Name: "247343002" Sample ID: "95506321.E" File: "EXS03100146.wif"  
Peak Name: "tri(n-o-cresyl) phosphate" Mass(es): "368.1/91.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Injection: 3/12/2010  
Acq. Date: 5:28:22 AM  
Acq. Time: 5:28:22 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412029a

Date Analyzed: 13-APR-10 05:26

Units: ug/kg

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

\*Concentration =

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

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 57 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412029a

Date: 13-Apr-2010

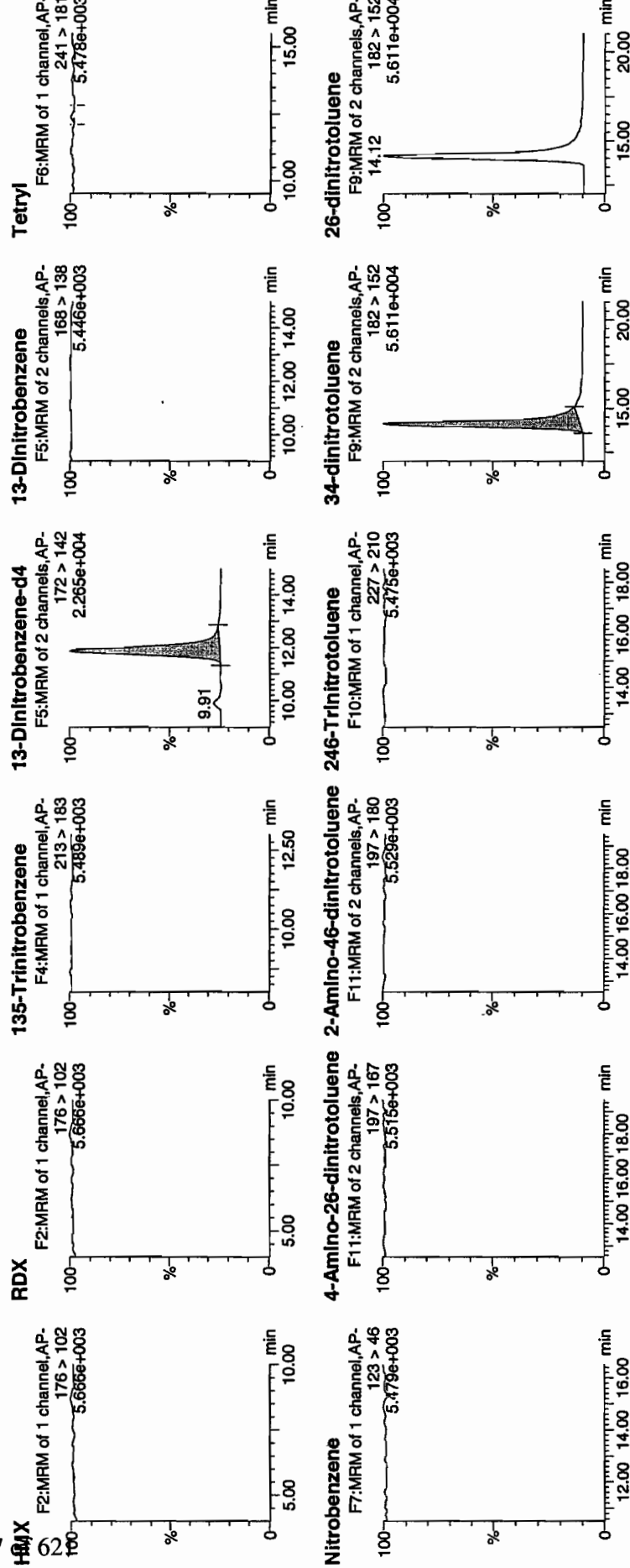
Time: 05:26:18

ID: 247343003

Val: 2:3,B

4/13/10

LAU 955063 / 8023 / 21



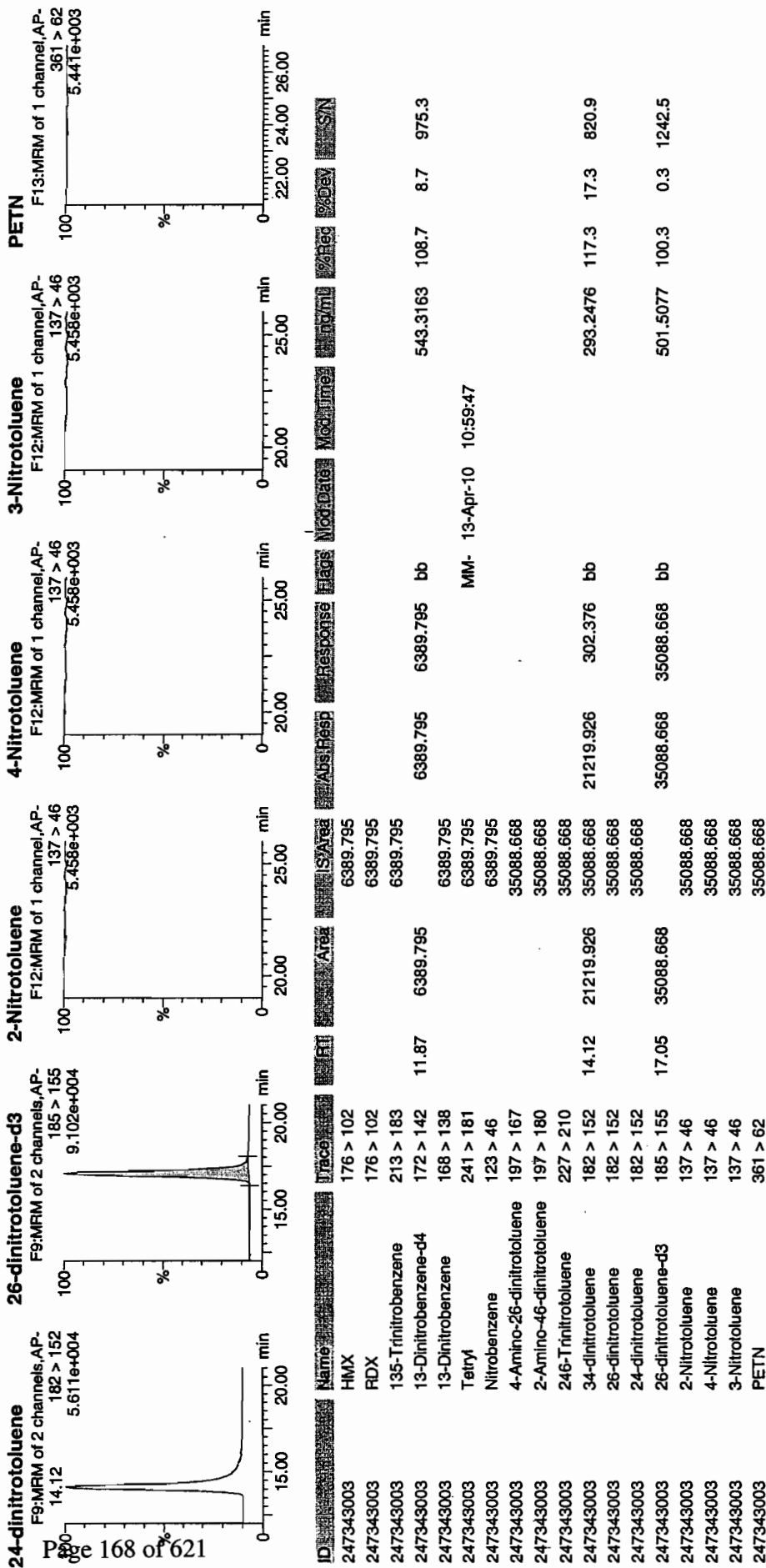
4/13/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

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Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8206

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343003

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100147.wiff

Date Analyzed: 12-MAR-10 05:44

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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Run 314110

Sample Name: "247243003" Sample ID: "955053212L" File: "EX503100147.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "257.2204.9 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

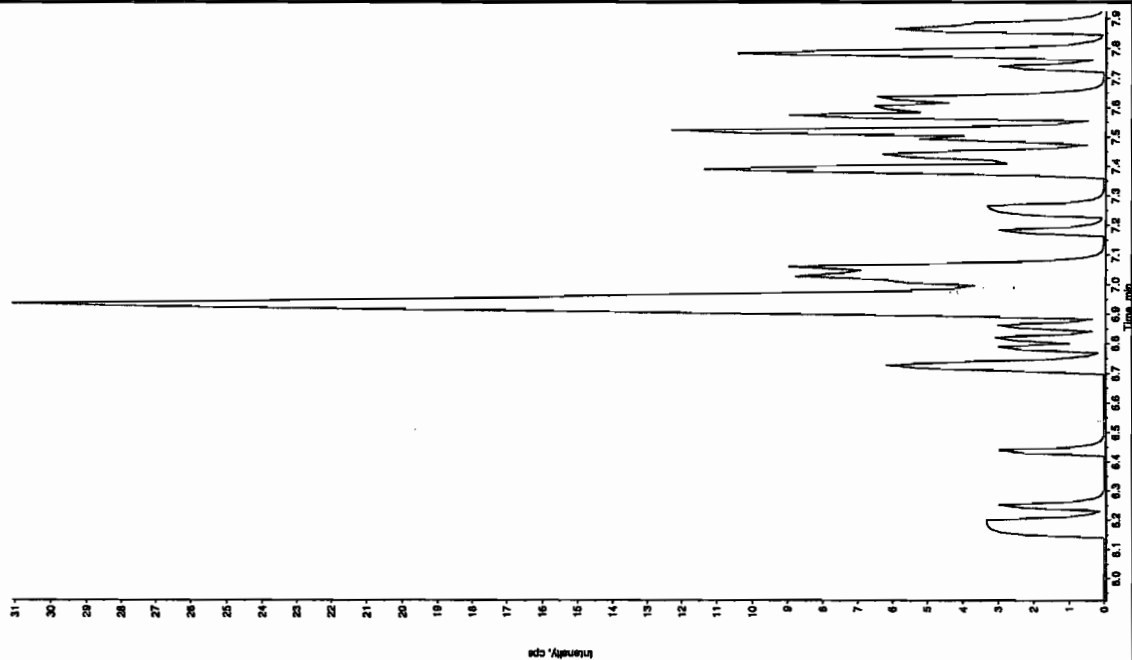
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 5:44:04 AM

Modified: No



Sample Name: "247243003" Sample ID: "955053212L" File: "EX503100147.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0460.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

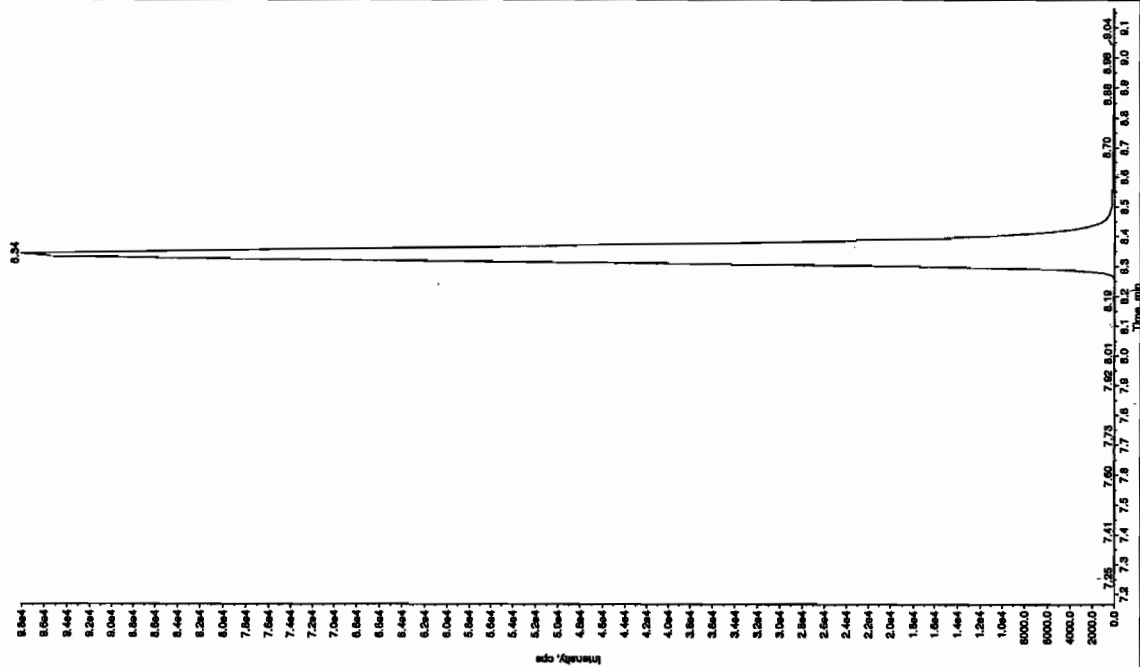
Concentration: N/A

Calculated Conc: 0.00 ng/mL

Acq. Date: 3/12/2010

Acq. Time: 5:44:04 AM

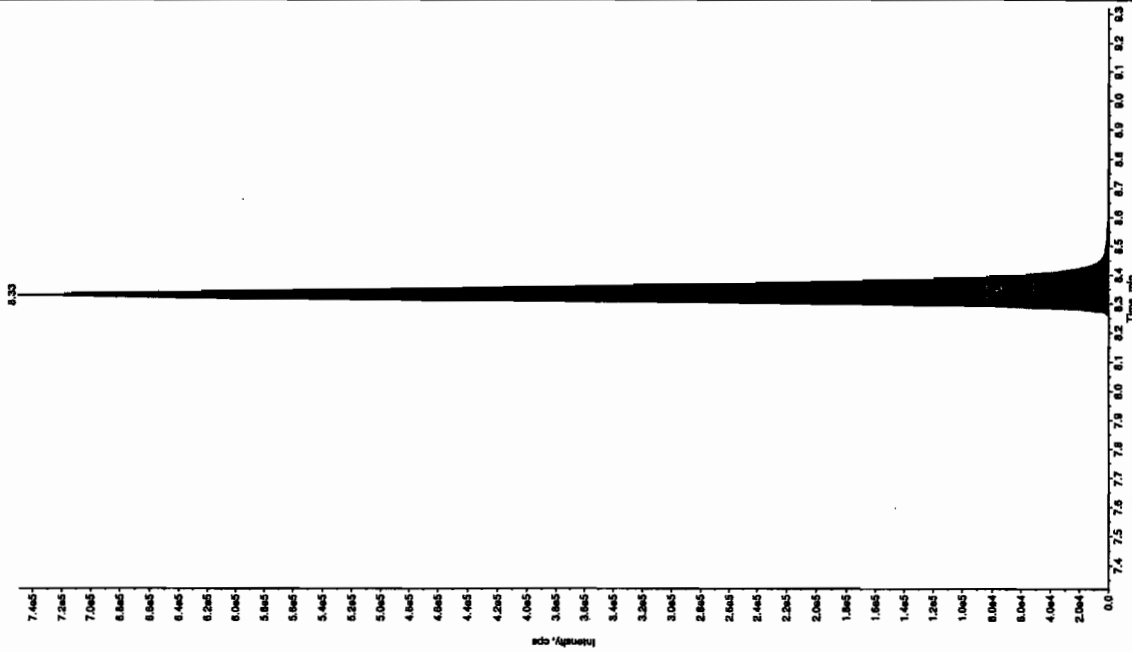
Modified: No



Run 314110

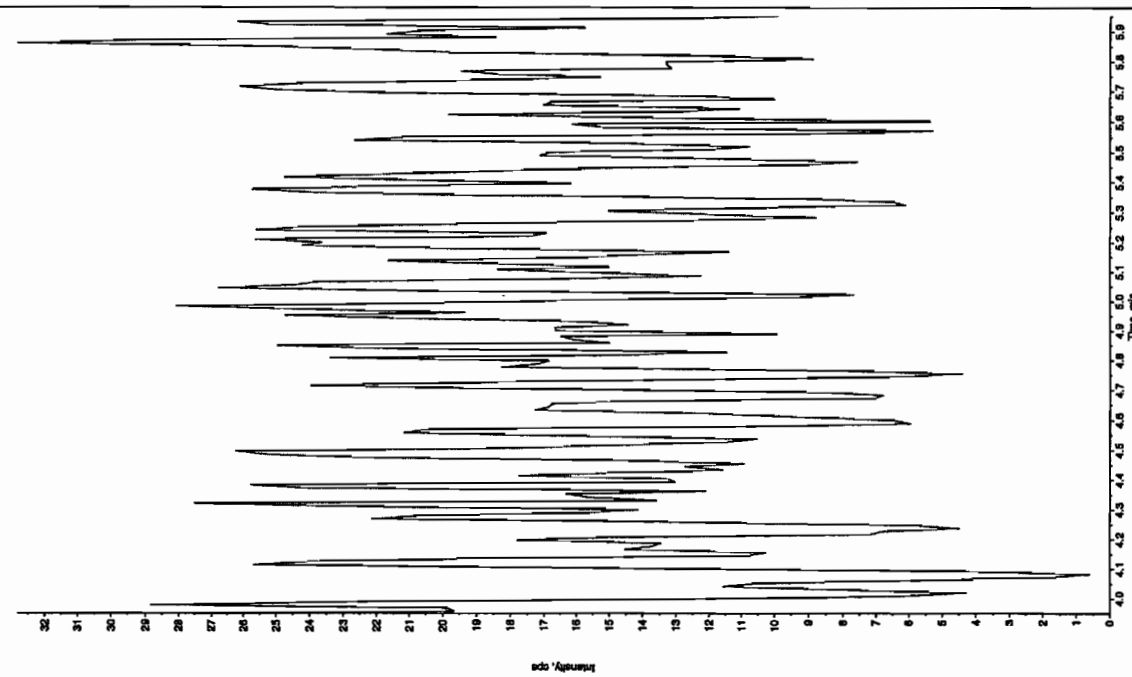
Sample Name: "27343003" Sample ID: "95503031" File: "EXS03100147.wif"  
 Peak Name: "34-Dihydroquinone" Mass(es): "162.1/161.9 amu"  
 Comment: "LCX832125" Annotation: "

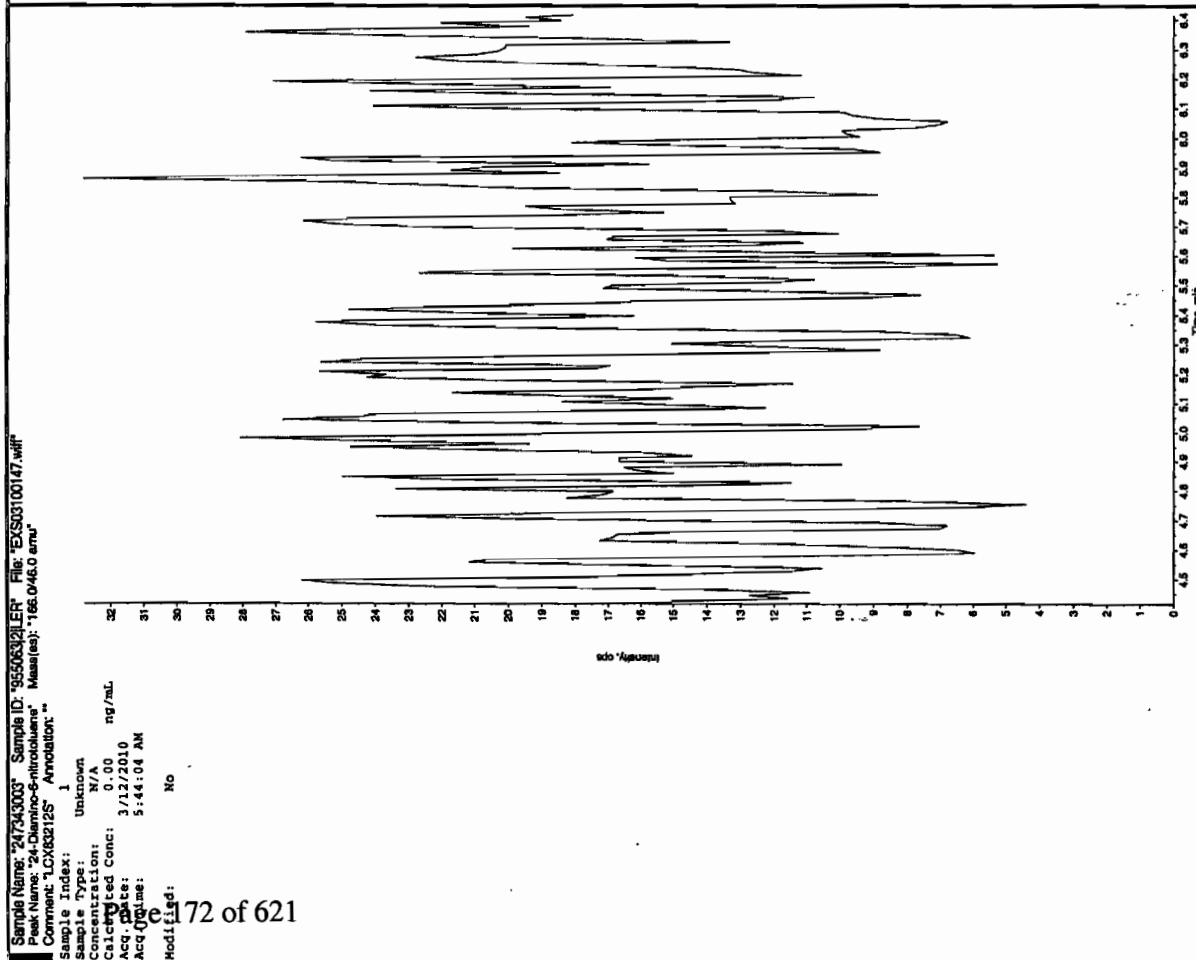
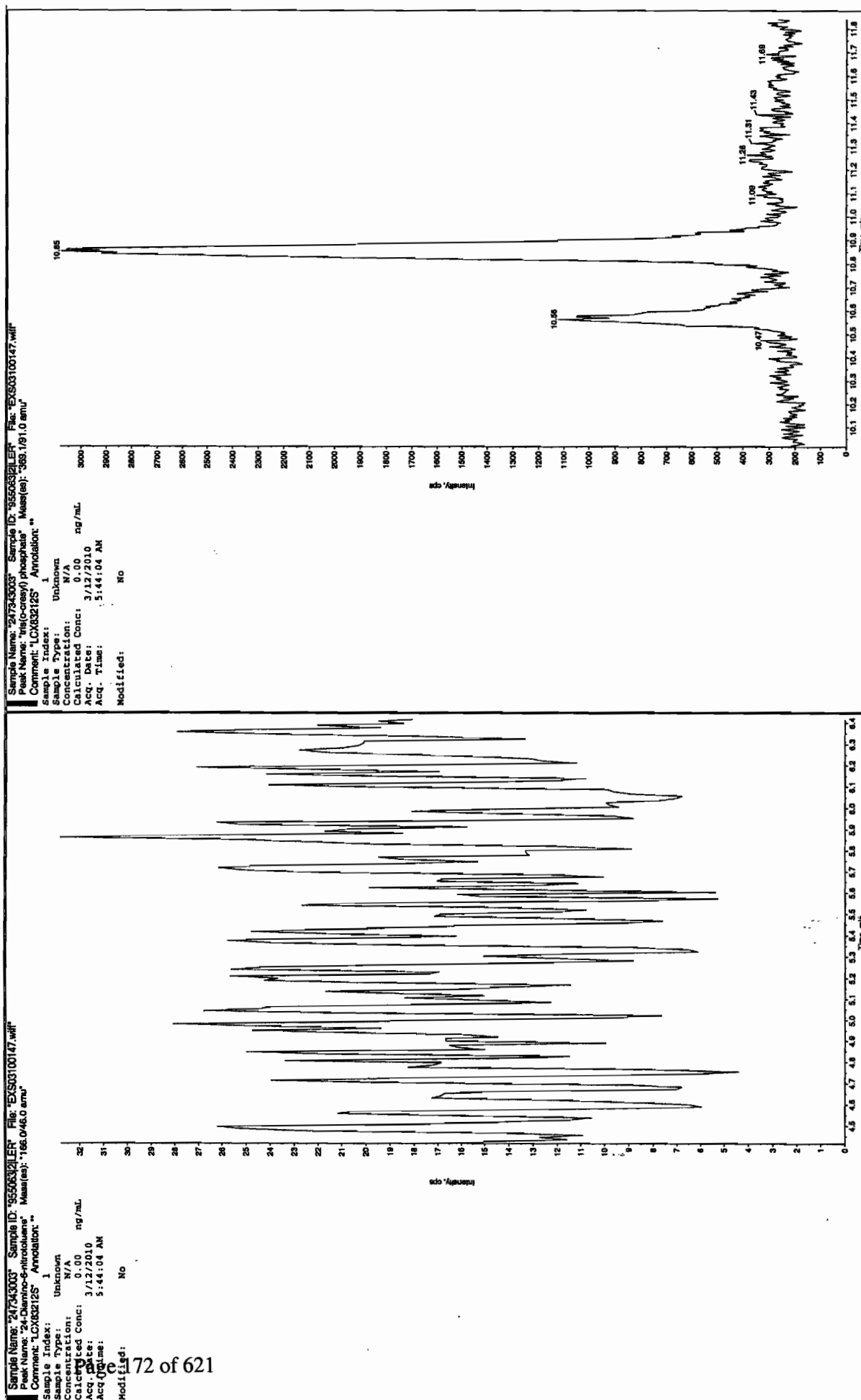
Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 275 ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 5:44:04 AM  
 Acq. Time: 5:44:04 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 In. Peak Height: 1460.00 cps  
 In. Peak Width: 0.00 sec  
 Smoothed Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.77e+06 counts  
 Height: 749413.00 cps  
 Width: 8.21 min  
 End Time: 8.71 min



Sample Name: "27343003" Sample ID: "95503031" File: "EXS03100147.wif"  
 Peak Name: "34-Dihydroquinone" Mass(es): "166.0/166.0 amu"  
 Comment: "LCX832125" Annotation: "

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 0.00 ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 5:44:04 AM  
 Modified: No





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412030a

Date Analyzed: 13-APR-10 05:55

Units: ug/kg

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

\*Concentration =

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412030a

Date: 13-Apr-2010

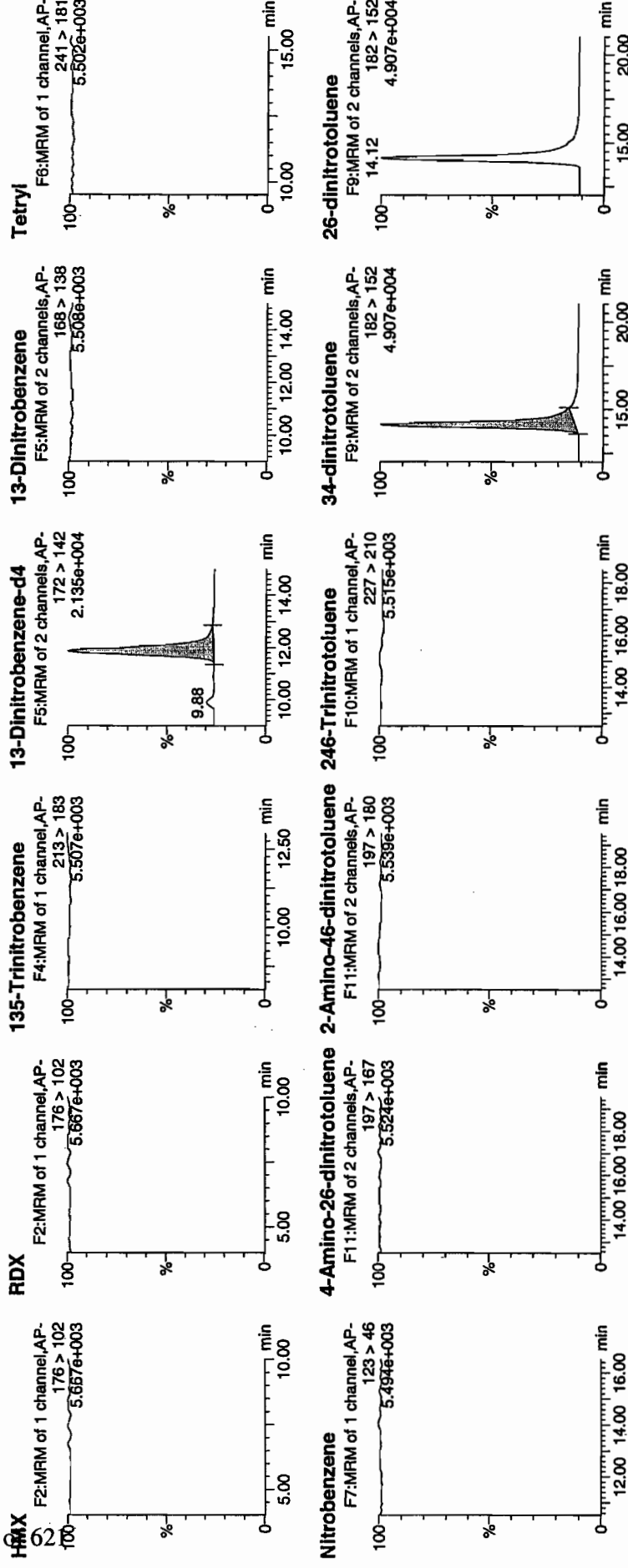
Time: 05:55:47

ID# 247343004

Vial: 2:3,C

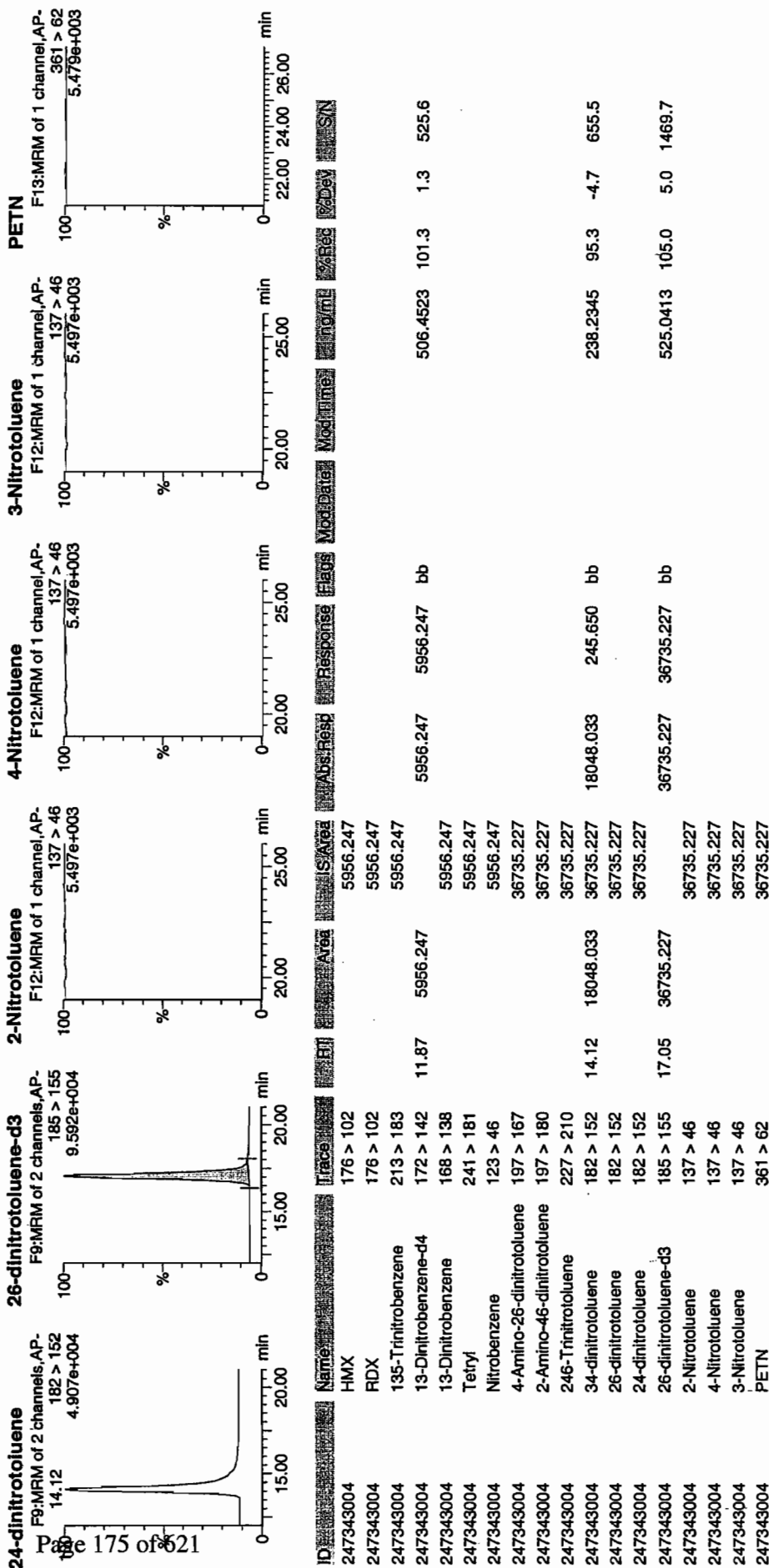
4/13/10

LANU 955063 / 8022 / 21



4/13/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8207

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343004

Sample Amount 2

Moisture: 2.4

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100148.wiff

Date Analyzed: 12-MAR-10 05:59

Units: ug/kg

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

\*Concentration =

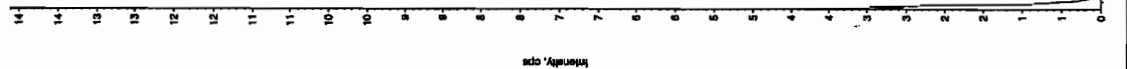
Instrument				
Value	X	<u>Concentrated Extract Volume</u>	X	Dilution
		Sample Amount		Factor



Scan 3/14/10

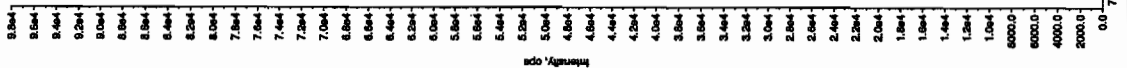
Sample Name: "247343004" Sample ID: "855063212" File: "EX03100148.wif"  
Peak Name: "TATB" Mass(es): "257.27204.9 amu"  
Comment: "LCMS03125" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 5:59:56 AM  
Acq. Time: 5:59:56 AM  
Modified: No



Sample Name: "247343004" Sample ID: "855063212" File: "EX03100148.wif"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"  
Comment: "LCMS03125" Annotation: "

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 5:59:56 AM  
Acq. Time: 5:59:56 AM  
Modified: No



Ann 03/14/10

Sample Name: "24743004" Sample ID: "955032125" File: "EXS0100148.wif"

Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "162.151.9 amu"

Comment: "LCX632125" Annotation: "

Sample Index: 1

Sample Type: Unknown

Concentration: 280 ng/mL

Calculated Conc: 0.00

Acq. Date: 3/12/2010

Acq. Time: 5:59:56 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: 8.32 min

Use Relative RT: No

Int. Type: Valley

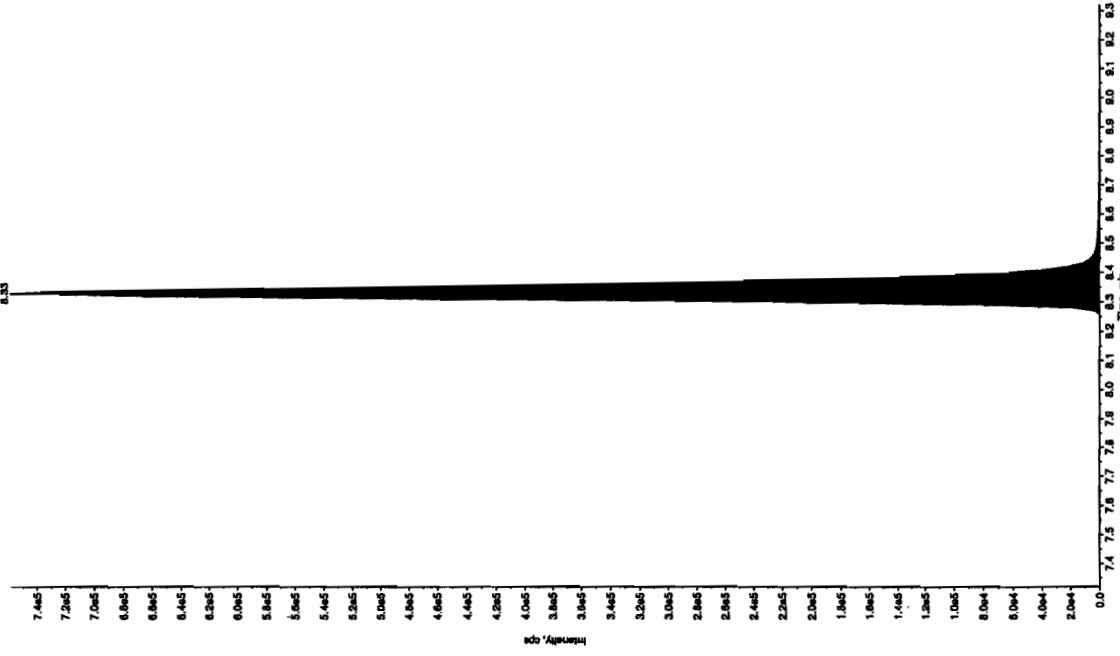
Retention Time: 8.33 min

Area: 2.81e+006 counts

Height: 758961.426 cps

Start Time: 8.19 min

End Time: 8.68 min



Sample Name: "24743004" Sample ID: "955032125" File: "EXS0100148.wif"

Peak Name: "25-Diamino-4-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX632125" Annotation: "

Sample Index: 1

Sample Type: Unknown

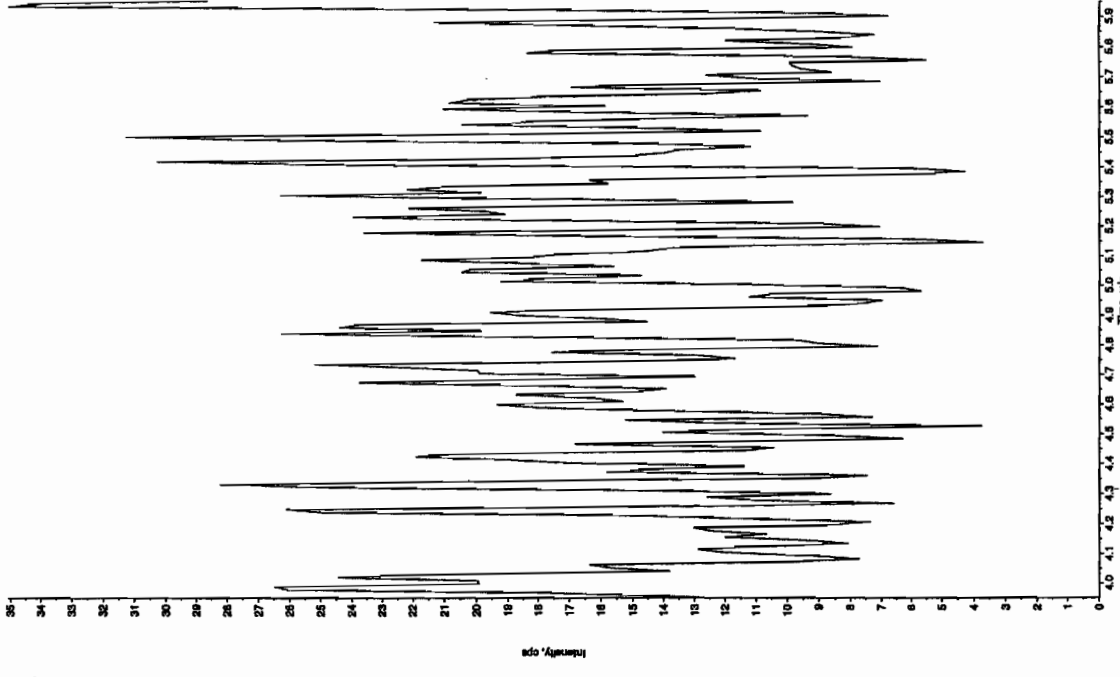
Concentration: 0.00 ng/mL

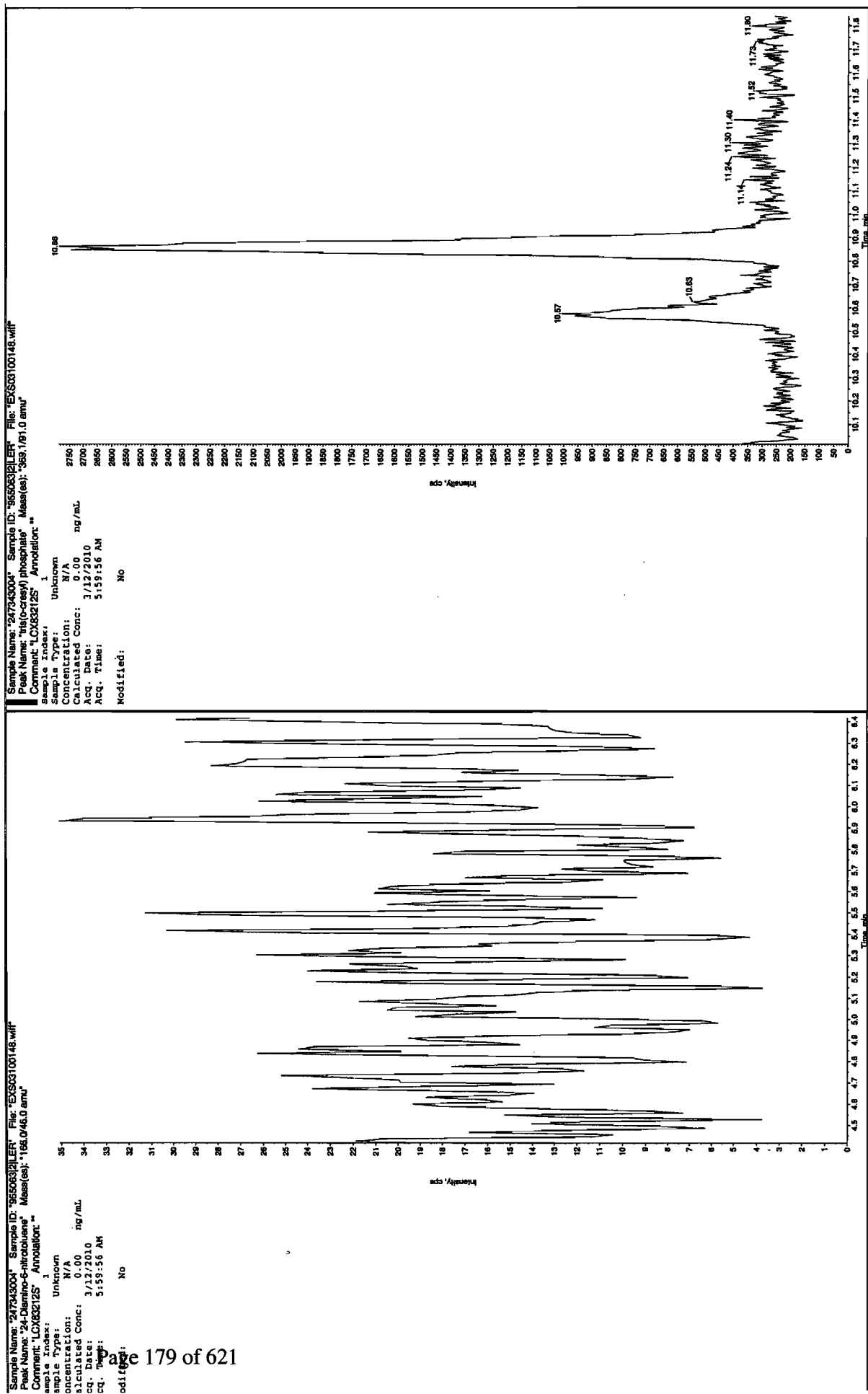
Calculated Conc: 0.00

Acq. Date: 3/12/2010

Acq. Time: 5:59:56 AM

Modified: No





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412031a

Date Analyzed: 13-APR-10 06:25

Units: ug/kg

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

\*Concentration =

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412031a

Date: 13-Apr-2010

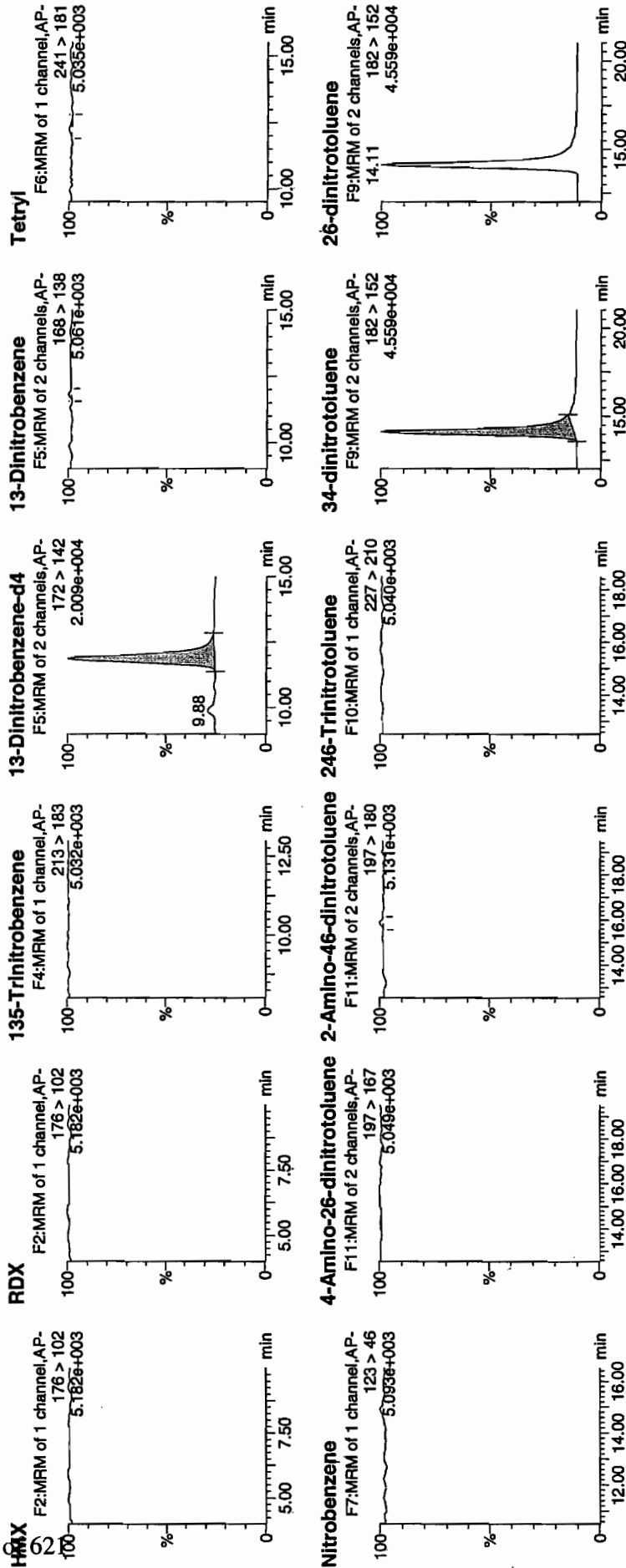
Time: 06:25:16

ID: 247343005

Vol: 2:3,D

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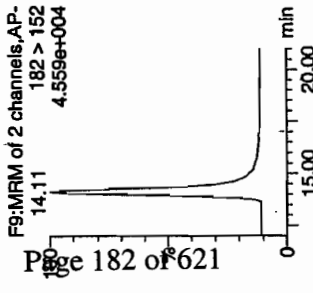
Law 955063 / 822 / 21



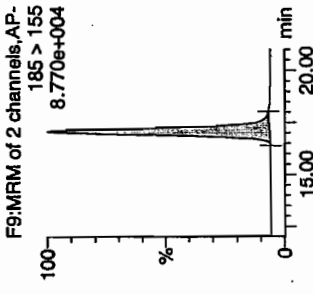
Amn 4/14/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

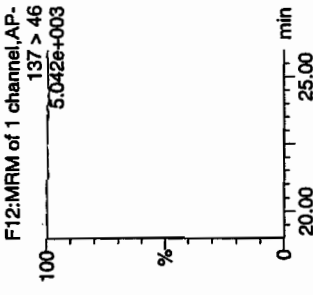
## 24-dinitrotoluene



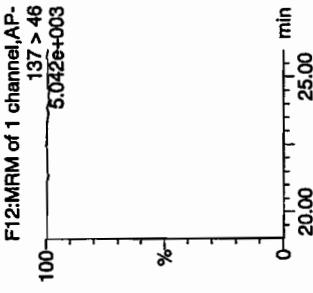
### 26-dinitrotoluene-d3



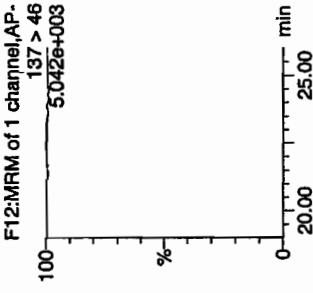
## 2-Nitrotoluene



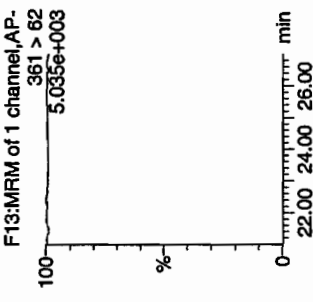
## 4-Nitrotoluene



### 3-Nitrotoluene



**PETN**



ID	Name	Trace	RI	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	S/N
247343005	HMX	176 > 102			5708.121									
247343005	RDX	176 > 102			5708.121									
247343005	135-Trinitrobenzene	213 > 183			5708.121									
247343005	13-Dinitrobenzene-d4	172 > 142	11.86	5708.121		5708.121	5708.121	bb	13-Apr-10	10:59:30	485.3544	97.1	-2.9	360.6
247343005	13-Dinitrobenzene	168 > 138			5708.121			MM-	13-Apr-10	10:59:43				
247343005	Tetryl	241 > 181			5708.121			MM-	13-Apr-10	10:59:43				
247343005	Nitrobenzene	123 > 46			5708.121									
247343005	4-Amino-26-dinitrotoluene	197 > 167			33749.941									
247343005	2-Amino-46-dinitrotoluene	197 > 180			33749.941			MM-	13-Apr-10	11:03:24				
247343005	246-Trinitrotoluene	227 > 210			33749.941									
247343005	34-dinitrotoluene	182 > 152	14.11	16990.742	33749.941	16990.742	251.715	bb			244.1163	97.6	-2.4	816.8
247343005	26-dinitrotoluene	182 > 152			33749.941									
247343005	24-dinitrotoluene	182 > 152			33749.941									
247343005	26-dinitrotoluene-d3	185 > 155	17.06	33749.941		33749.941	33749.941	bb			482.3738	96.5	-3.5	3292.3
247343005	2-Nitrotoluene	137 > 46			33749.941									
247343005	4-Nitrotoluene	137 > 46			33749.941									
247343005	3-Nitrotoluene	137 > 46			33749.941									
247343005	PETN	361 > 62			33749.941									

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8204

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343005

Sample Amount 2

Moisture: 1.8

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100149.wiff

Date Analyzed: 12-MAR-10 06:15

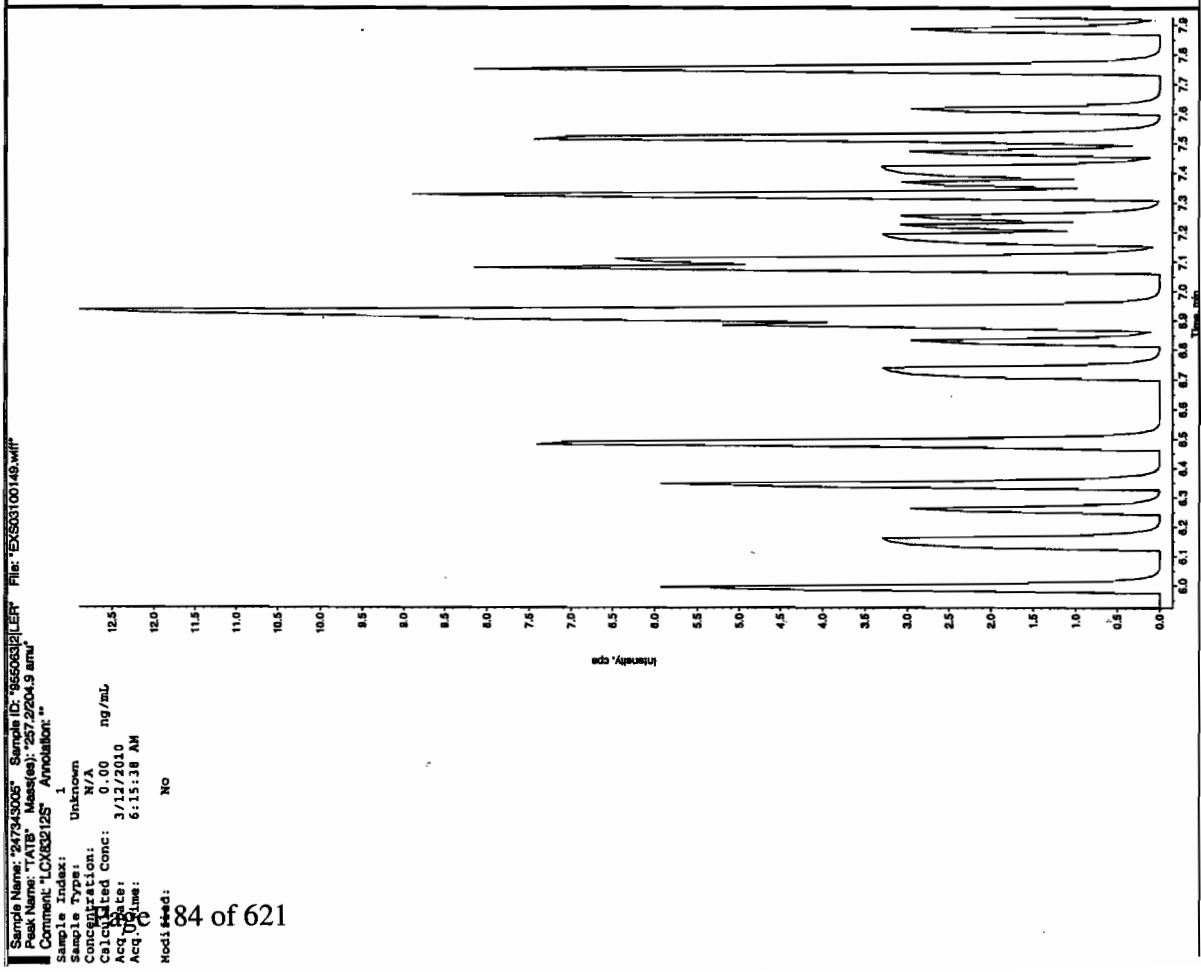
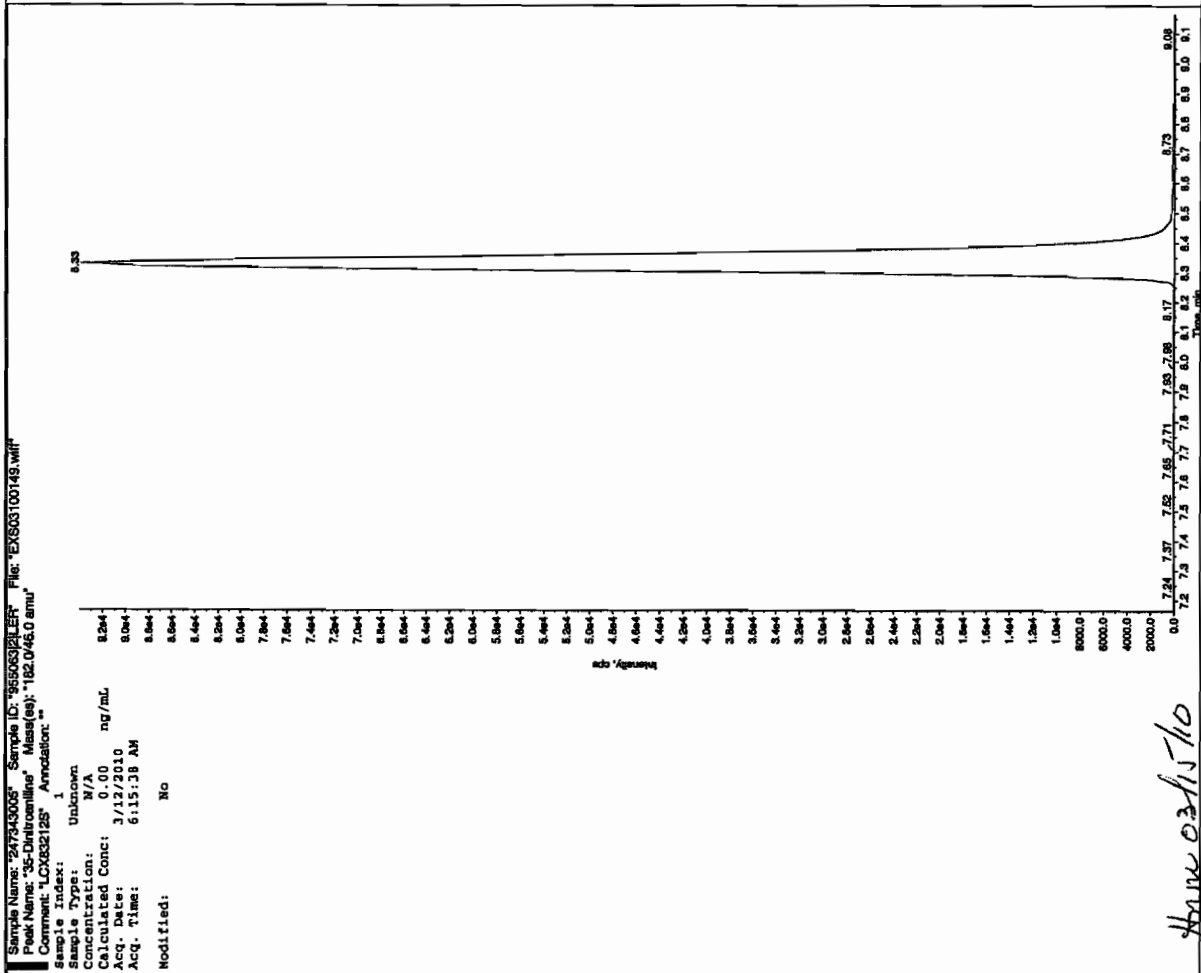
Units: ug/kg

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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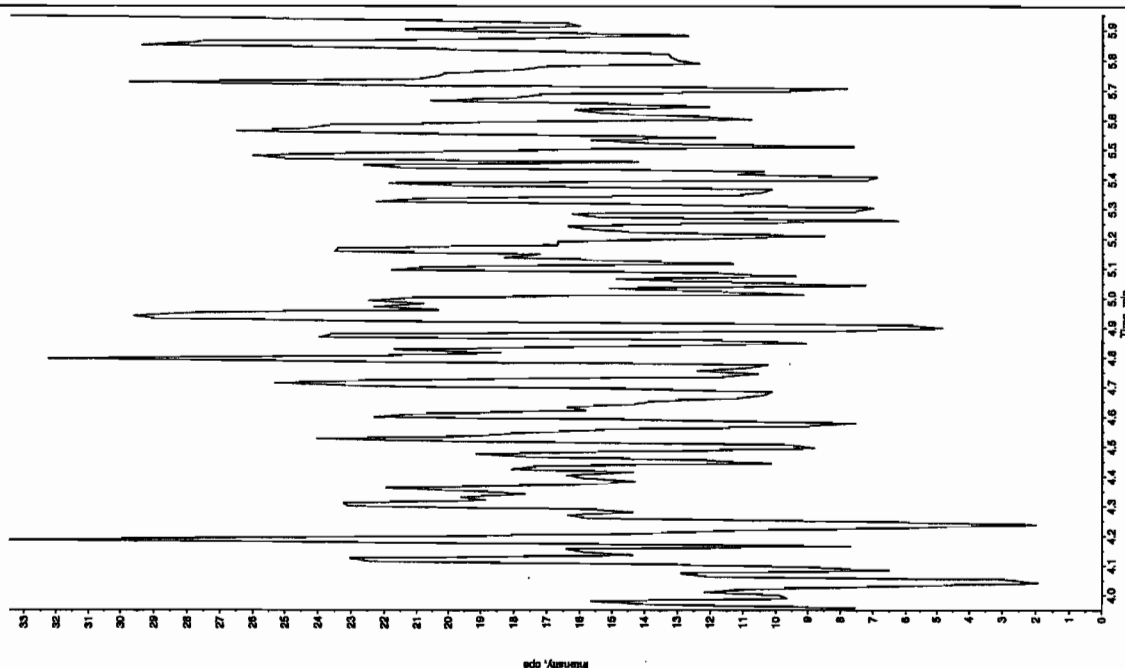
Run 3/14/10





Sample Name: "247343005" Sample ID: "855063212" File: "EVS03100149.wif"  
Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"  
Comment: "LCX832125" Annotation: "

Sample Index:	1	
Sample Type:	Unknown	
Concentration:	N/A	
Calculated Conc:	0.00	ng/mL
Acq. Date:	3/12/2010	
Acq. Time:	6:15:38 AM	
Modified:	No	

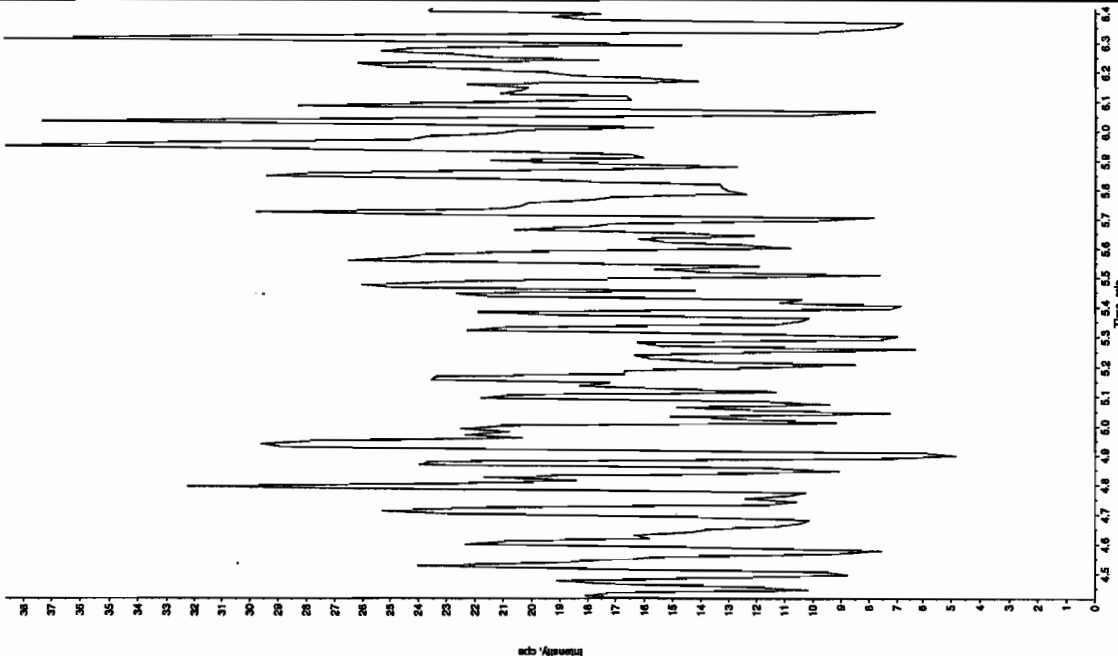


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247343005" Sample ID: "9550832125" File: "EX503100148.will"  
Peak Name: "24-Dinitro-5-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCX832125" Annotation: "

Sample Index: 1

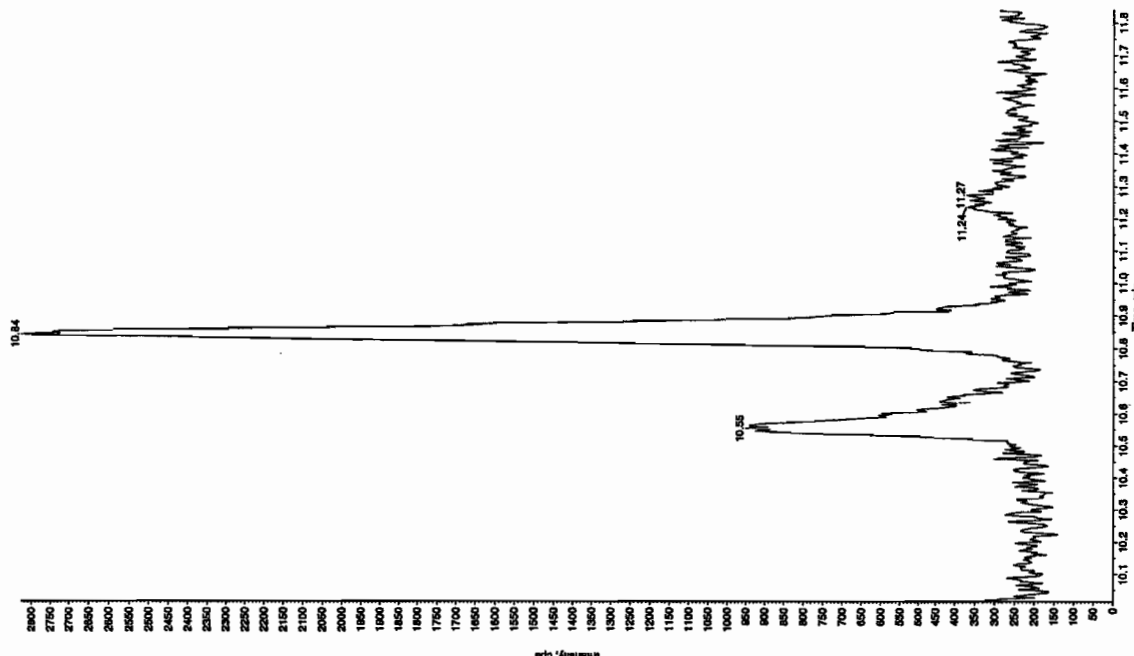
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3/12/2010 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:15:38 AM  
Modified: No



Sample Name: "247343005" Sample ID: "9550832125" File: "EX503100148.will"  
Peak Name: "bis(o-cresyl) phosphite" Mass(es): "363.191.0 amu"  
Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3/12/2010 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:15:38 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412032a

Date Analyzed: 13-APR-10 06:54

Units: ug/kg

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

\*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amount		

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\data\EXP0412032a

Date: 13-Apr-2010

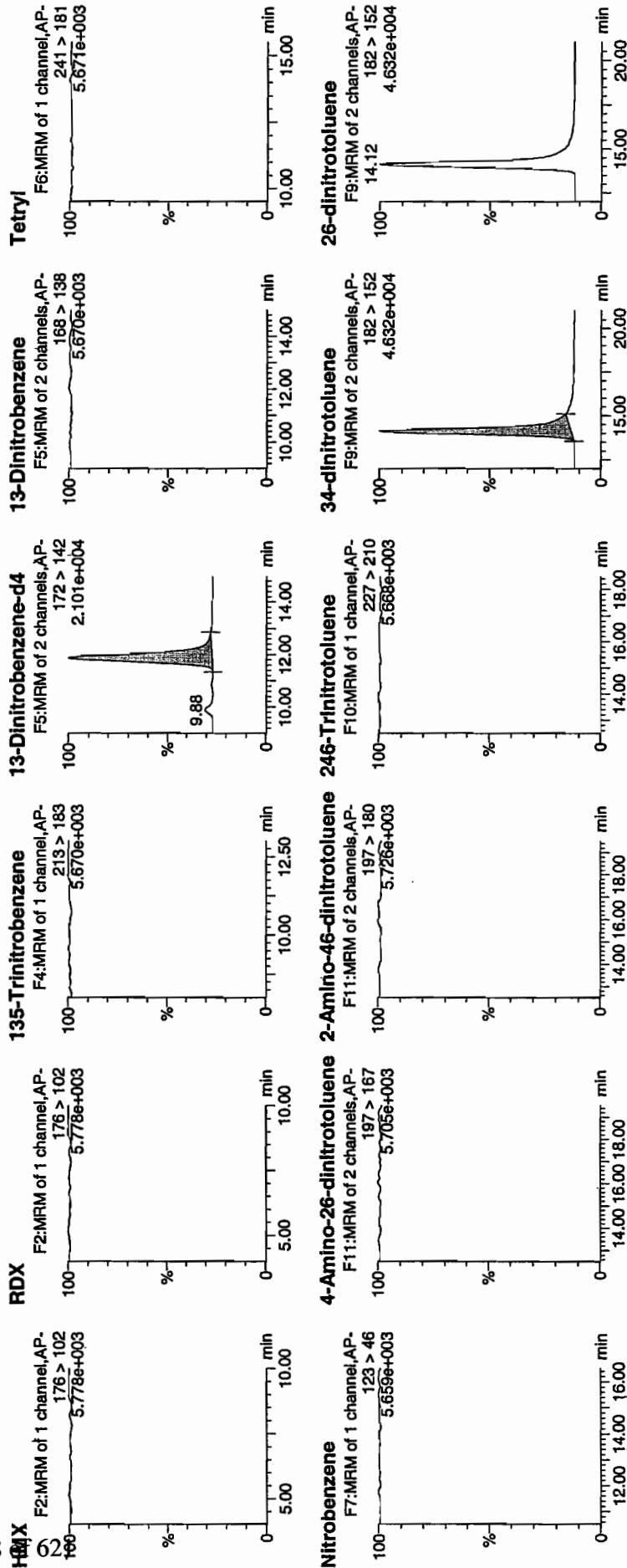
Time: 06:54:45

ID: 247343006

Val: 2:3,E

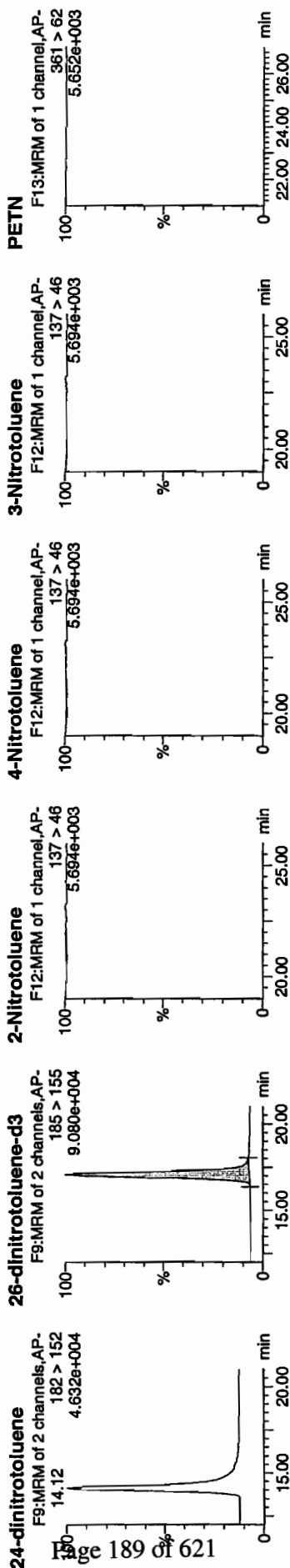
4/13/10

955063 / 8022 / 21



Amw 4/14/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



ID	Name	Trace	RT	Area	SArea	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	SN
247343006	HMX	176 > 102			5727.023								
247343006	RDX	176 > 102			5727.023								
247343006	135-Trinitrobenzene	213 > 183			5727.023								
247343006	13-Dinitrobenzene-d4	172 > 142	11.87	5727.023			5727.023	bb			486.9616	97.4	-2.6 371.7
247343006	13-Dinitrobenzene	168 > 138			5727.023								
247343006	Tetryl	241 > 181			5727.023								
247343006	Nitrobenzene	123 > 46			5727.023								
247343006	4-Amino-26-dinitrotoluene	197 > 167			34688.715								
247343006	2-Amino-46-dinitrotoluene	187 > 180			34688.715								
247343006	246-Trinitrotoluene	227 > 210			34688.715								
247343006	34-dinitrotoluene	182 > 152	14.12	17012.154			17012.154	bb			237.8092	95.1	-4.9 595.0
247343006	26-dinitrotoluene	182 > 152			34688.715								
247343006	24-dinitrotoluene	182 > 152			34688.715								
247343006	26-dinitrotoluene-d3	185 > 155	17.05	34688.715			34688.715	bb			495.7914	99.2	-0.8 1873.2
247343006	2-Nitrotoluene	137 > 46			34688.715								
247343006	4-Nitrotoluene	137 > 46			34688.715								
247343006	3-Nitrotoluene	137 > 46			34688.715								
247343006	PETN	361 > 62			34688.715								

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8202

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343006

Sample Amount 2

Moisture: 2.0

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100150.wiff

Date Analyzed: 12-MAR-10 06:31

Units: ug/kg

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

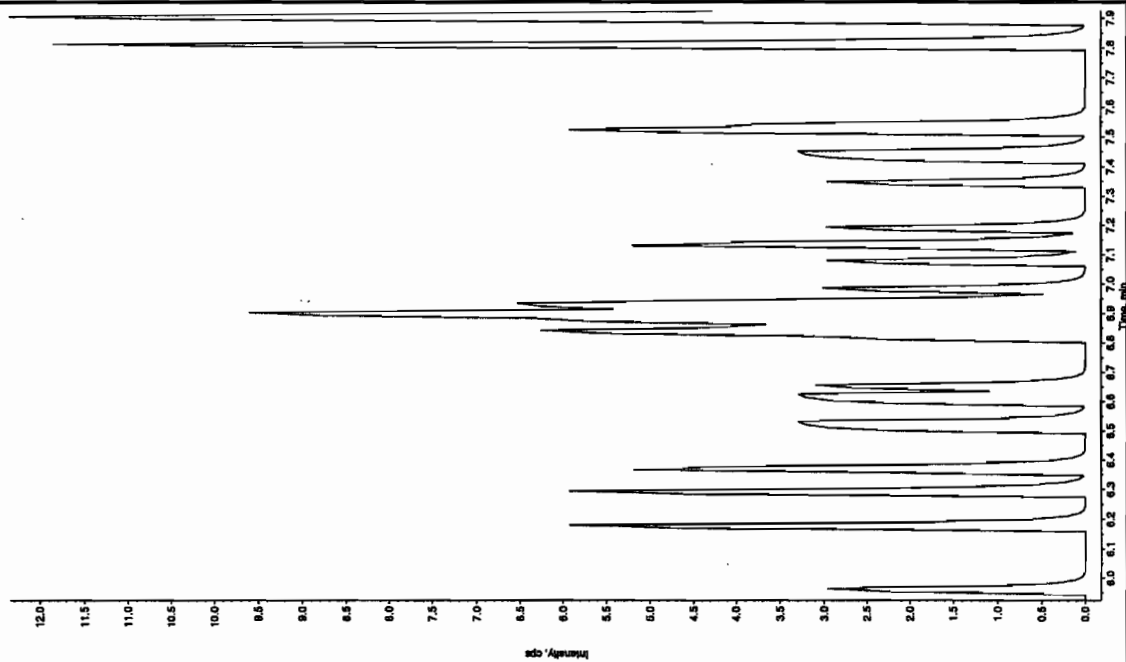
\*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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Run 3/14/10

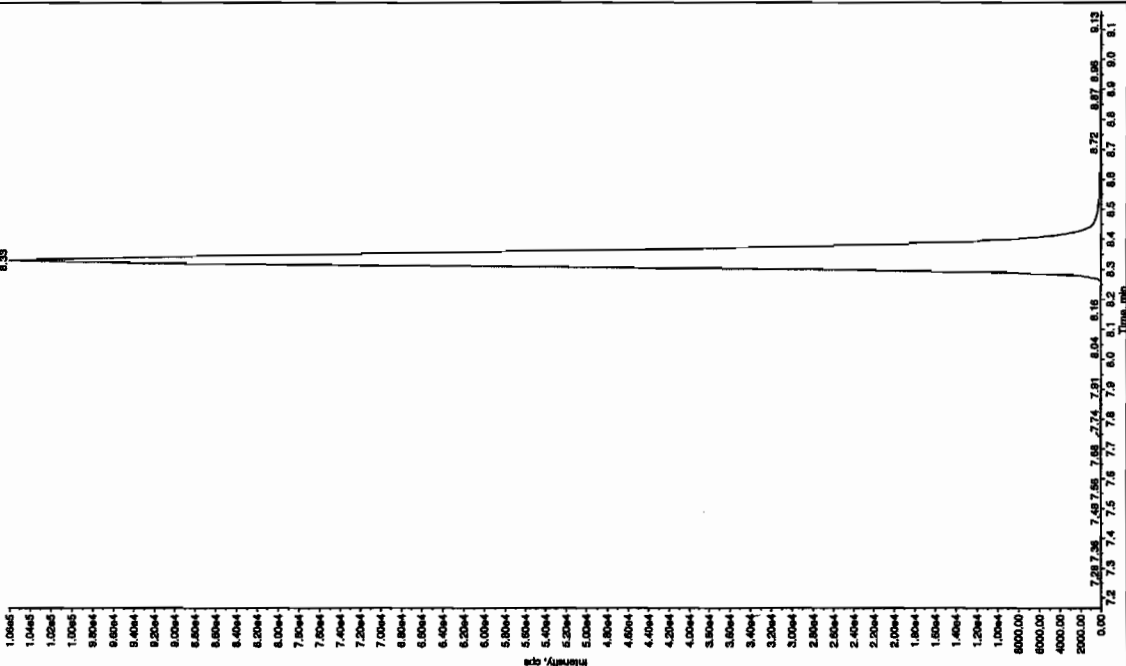
Sample Name: "247343005" Sample ID: "9550321" File: "EX503100150.wif"  
Peak Name: "TATE" Mass(es): "257.2204.9 amu"  
Comment: "LCX832125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No



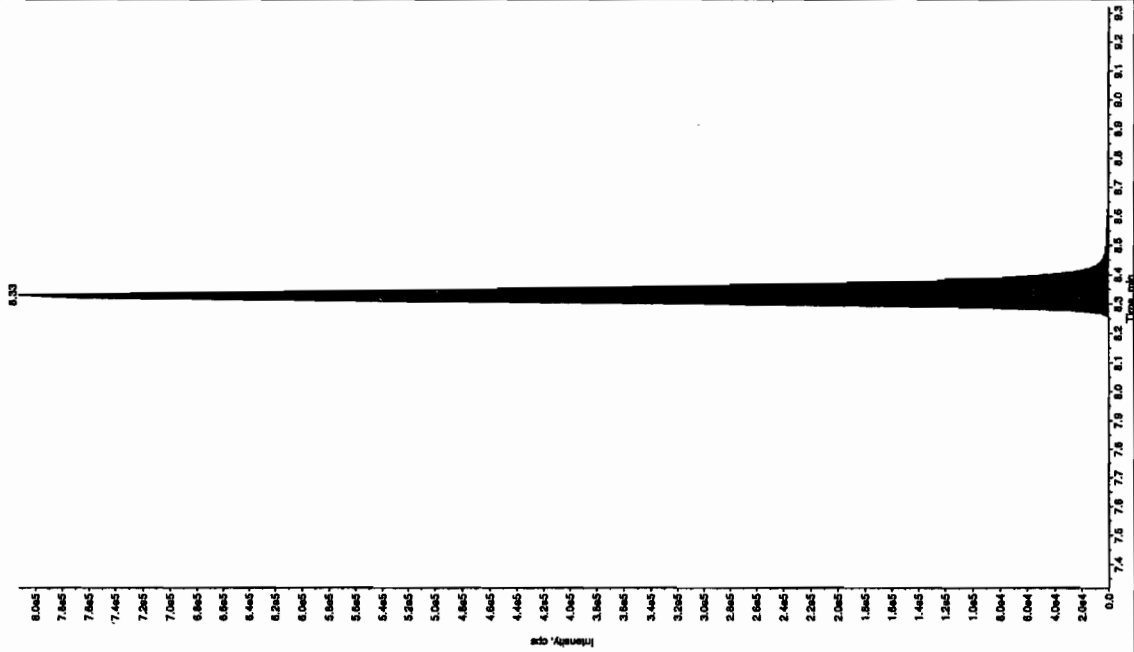
Sample Name: "247343005" Sample ID: "9550321" File: "EX503100150.wif"  
Peak Name: "TATE" Mass(es): "182.046.0 amu"  
Comment: "LCX832125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No



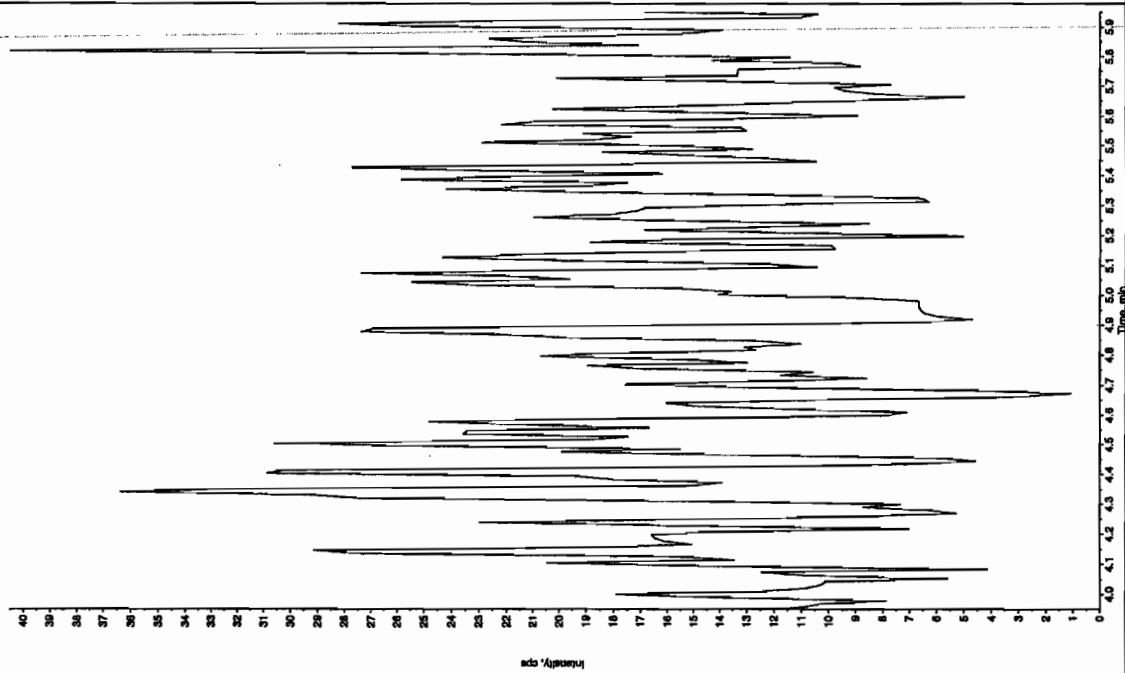
Sample Name: "247343005" Sample ID: "95505321" File: "EX503100150.wiff"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/181.9 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 291.  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No  
Processing: IntelliQuan - IQA  
Min Peak Height: 1460.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3.00 points  
Min. Ret. Time: 15.0 sec  
Max. Ret. Time: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 2.92e+006 counts  
Height: 812672.852 cps  
Start Time: 8.23 min  
End Time: 8.66 min



Sample Name: "247343005" Sample ID: "95505321" File: "EX503100150.wiff"  
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/165.0 amu"  
Comment: "LCX832125" Annotation: ""

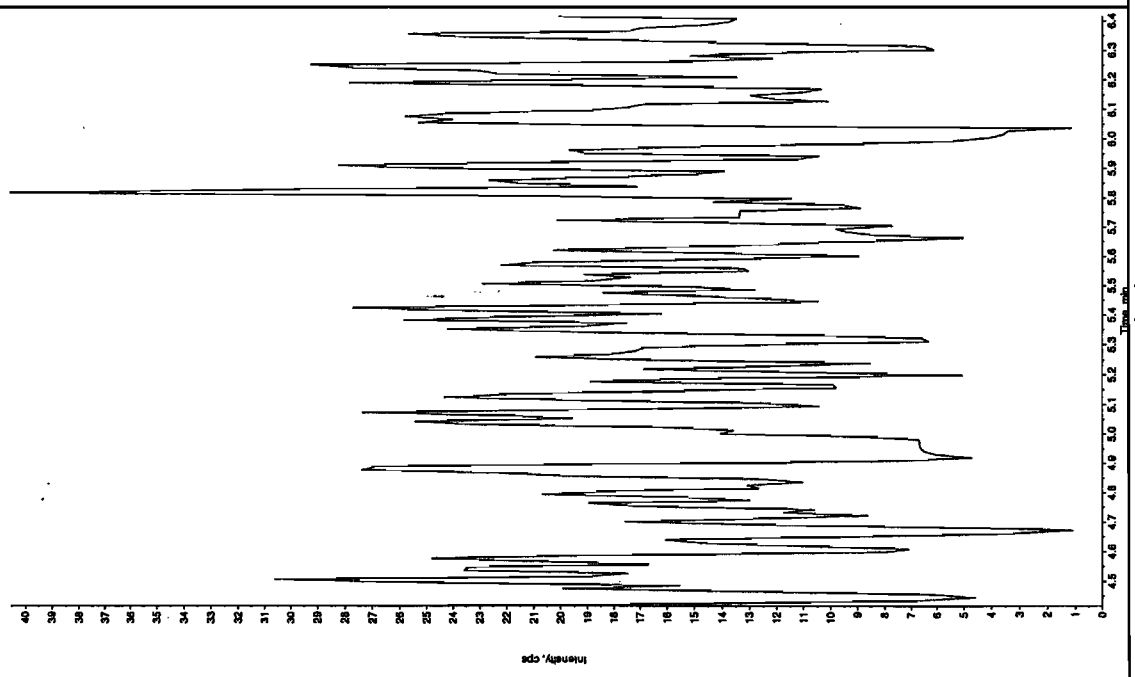
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No





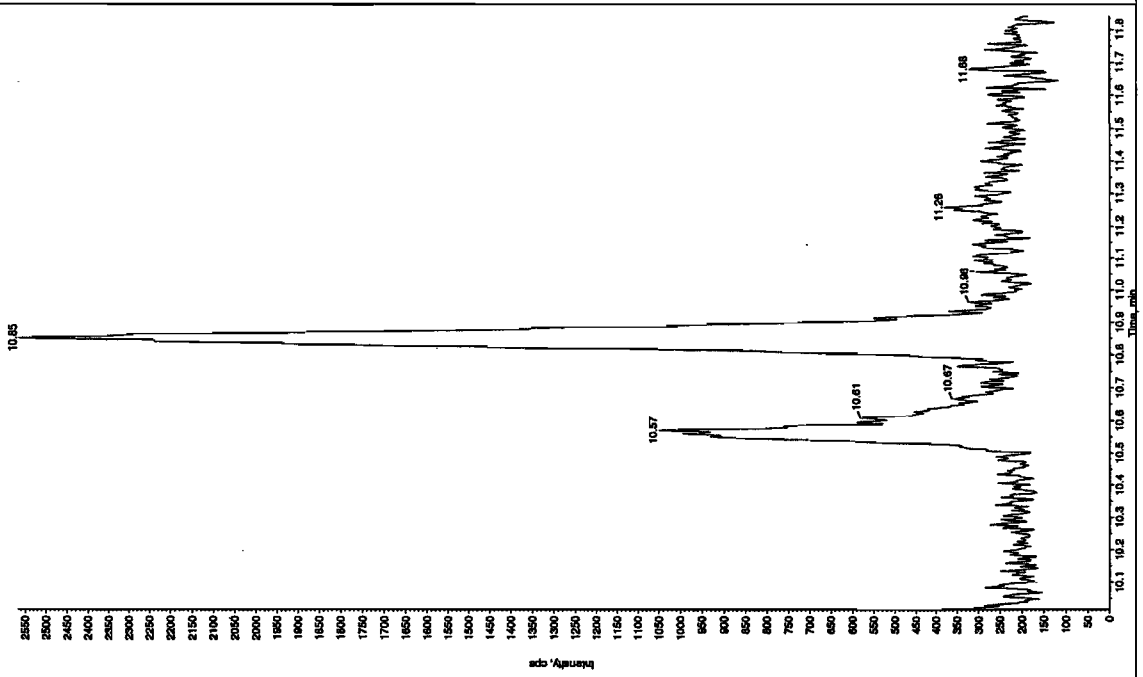
Sample Name: "247343005" Sample ID: "955032125" File: "EXS03100150.wif"  
Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""  
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No



Sample Name: "247343005" Sample ID: "955032125" File: "EXS03100150.wif"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "359.191.0 amu"

Comment: "LCX832125" Annotation: ""  
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 6:31:21 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412033a

Date Analyzed: 13-APR-10 07:24

Units: ug/kg

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

\*Concentration =

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

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 65 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412033a

Date: 13-Apr-2010

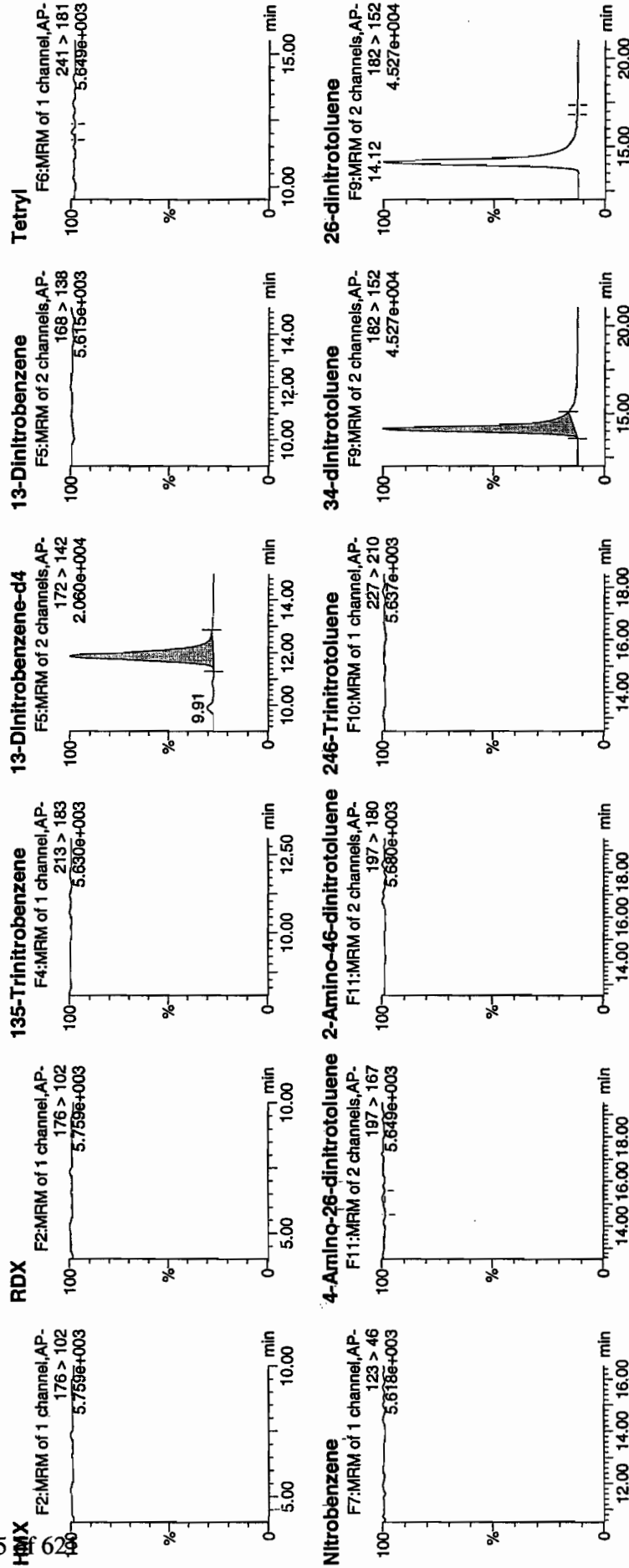
Time: 07:24:14

ID: 247343007

Vel: 2:3,F

5

LAU 955063 / 8022 / 21



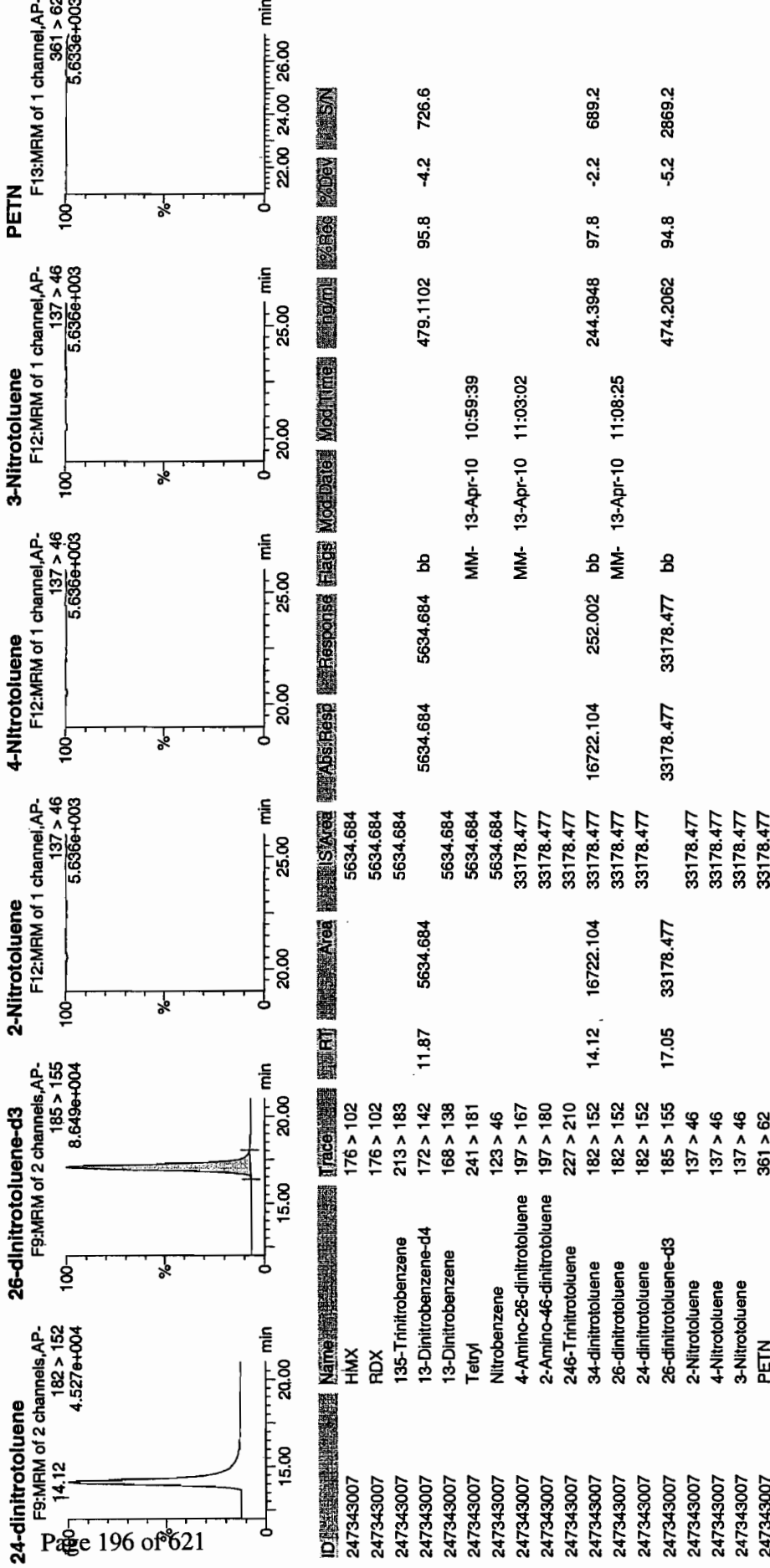
HM 04/14/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 66 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8209

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343007

Sample Amount 2

Moisture: 1.9

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100151.wiff

Date Analyzed: 12-MAR-10 06:47

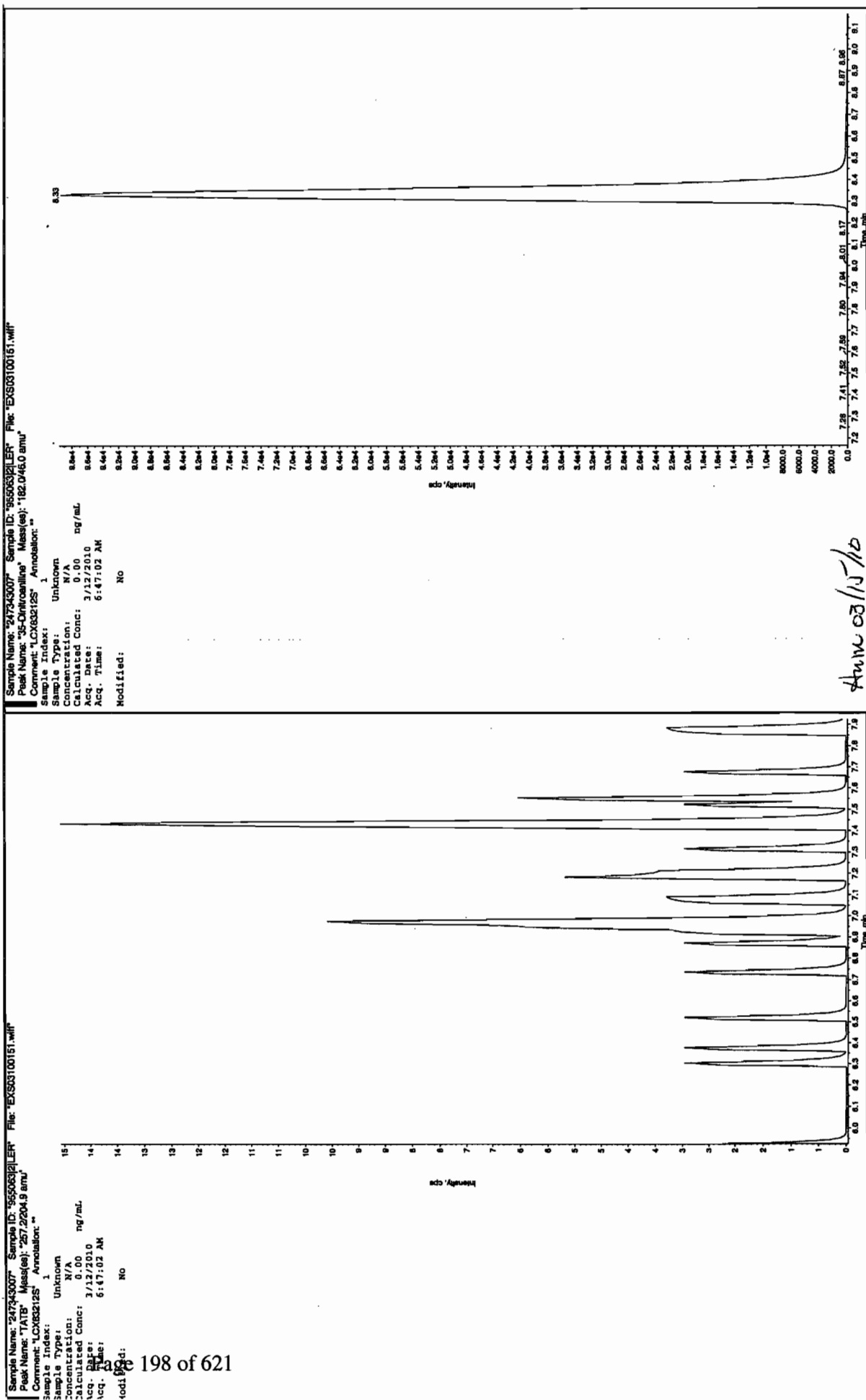
Units: ug/kg

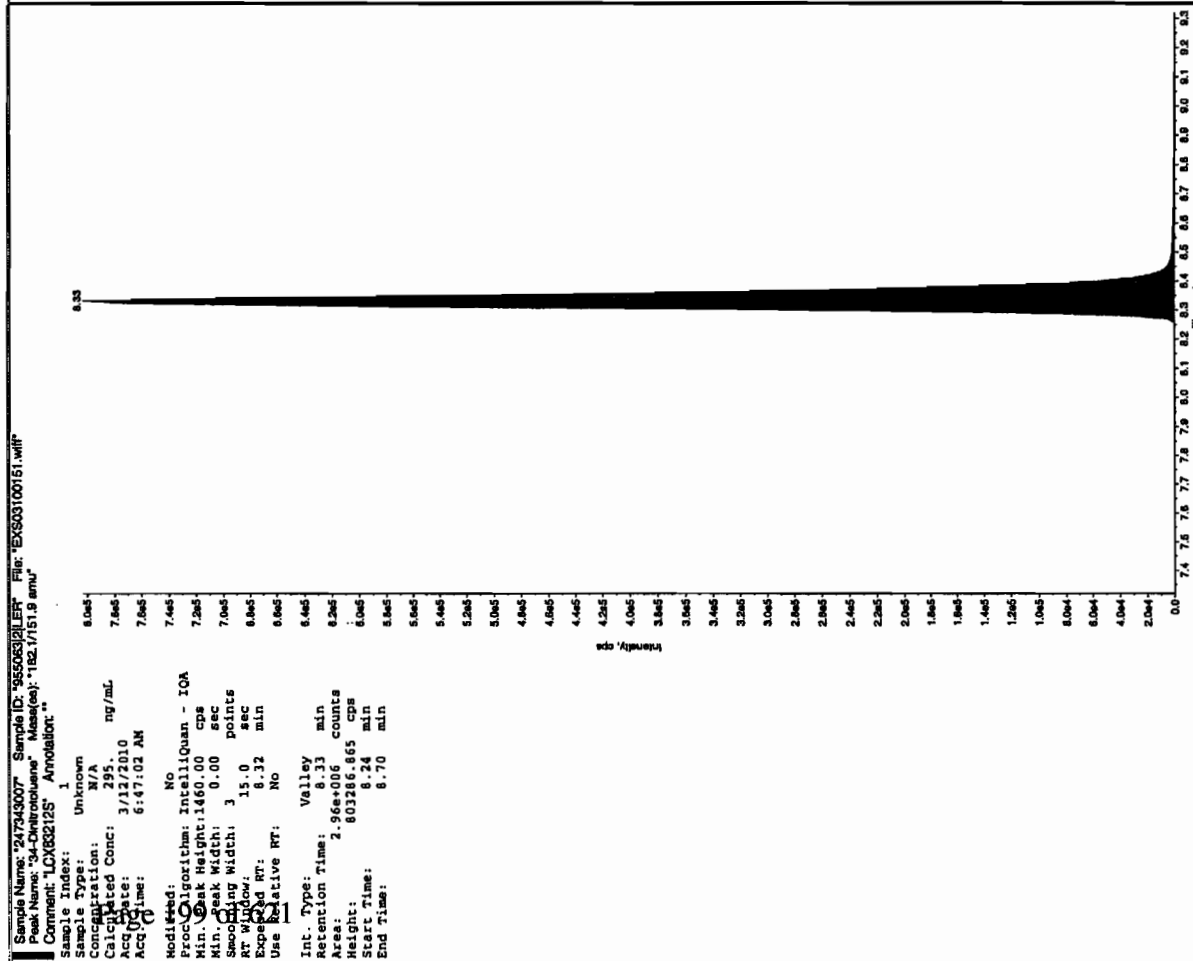
Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	1000	U
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
618-87-1	3,5-Dinitroaniline	1000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U
78-30-8	tris(o-cresyl) phosphate	1000	U

\*Concentration =

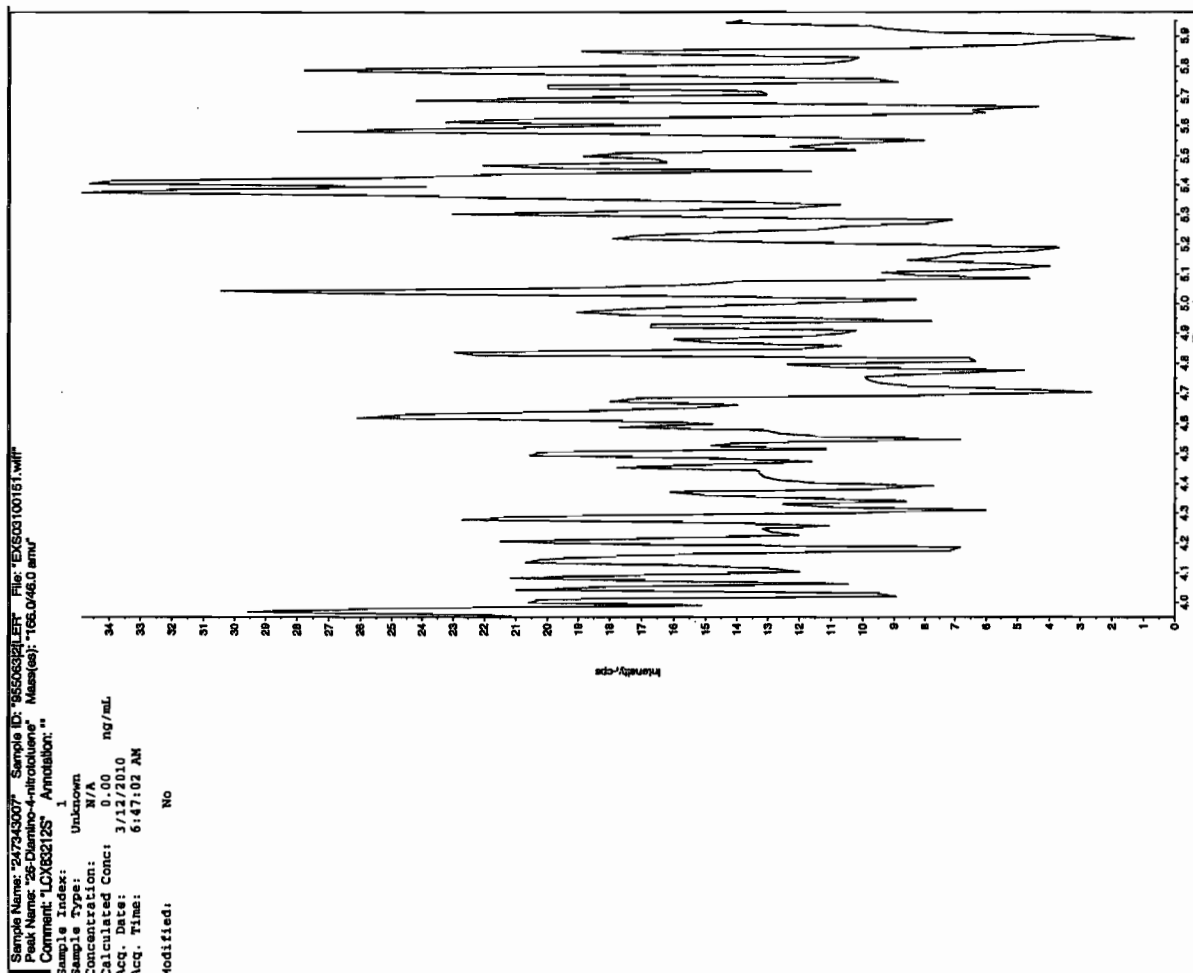
Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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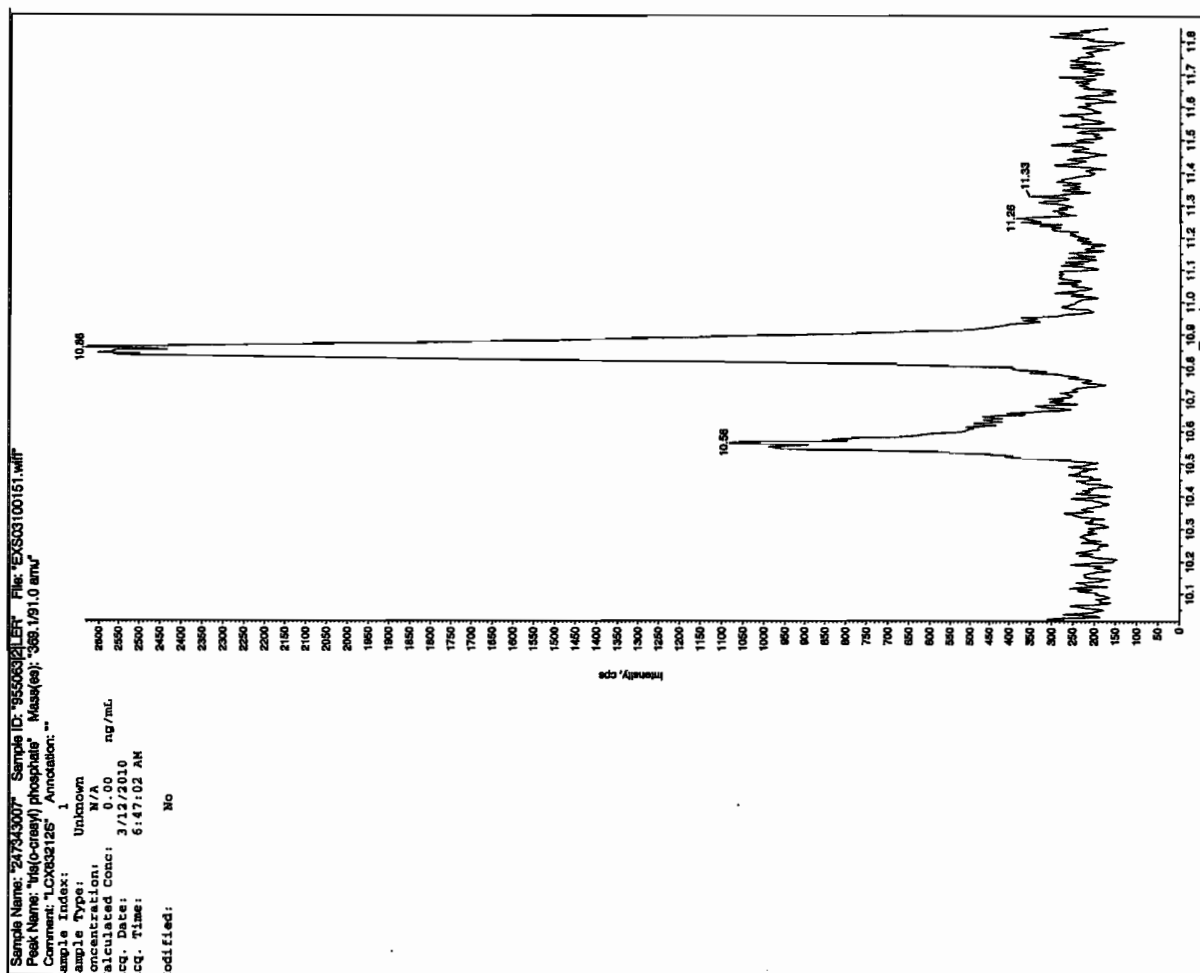
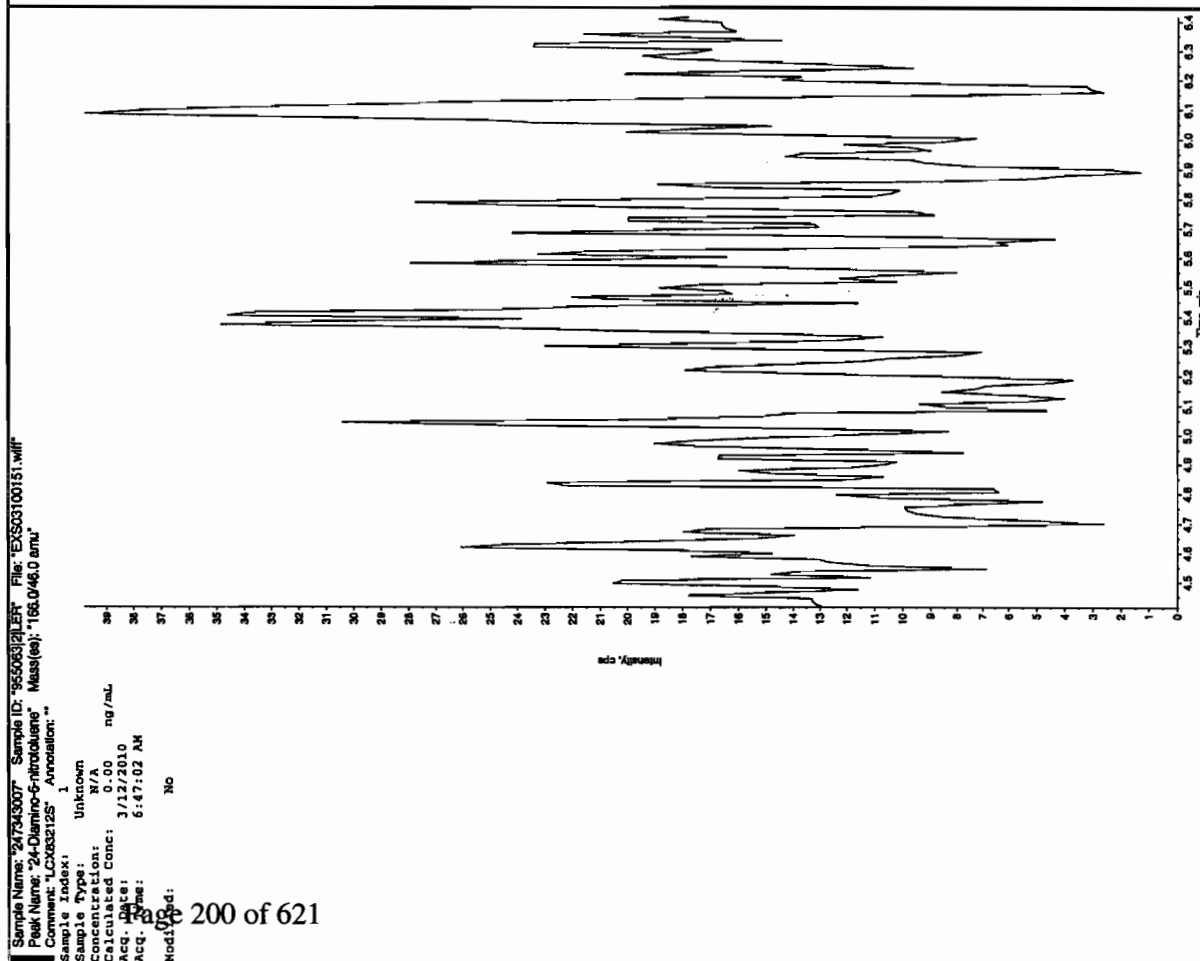
Ken 3/14/10





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







1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412034a

Date Analyzed: 13-APR-10 07:53

Units: ug/kg

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

\*Concentration =

Instrument	X	Concentrated Extract Volume	X	Dilution
Value		Sample Amount		Factor

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 67 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412034a

Date: 13-Apr-2010

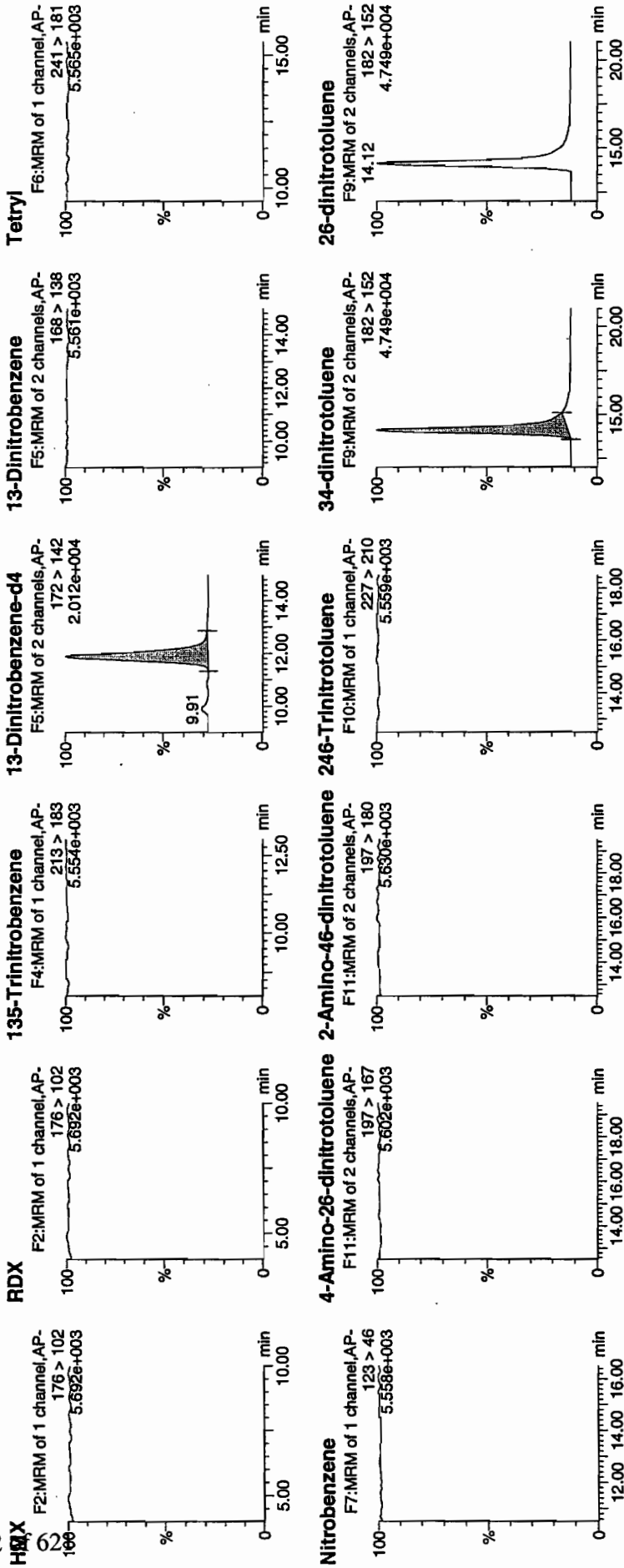
Time: 07:53:42

ID# 247343008

Vial: 2:4,A

4/13/10

LANU 955063 / 8022 / 21



Amu 04/14/10

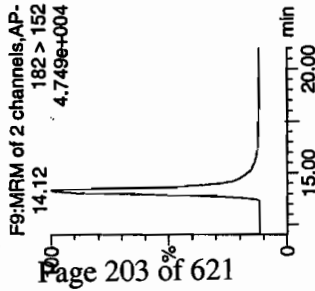
# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penry

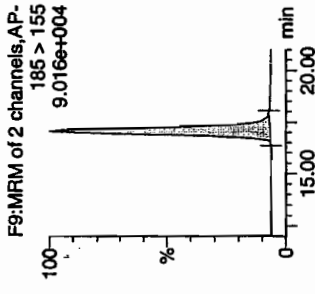
Printed: Tue Apr 13 11:14:26 2010, Page 68 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

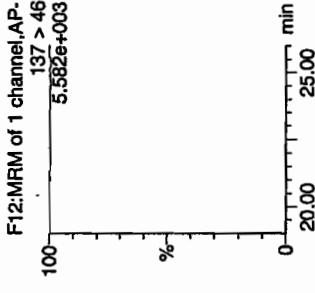
## 24-dinitrotoluene



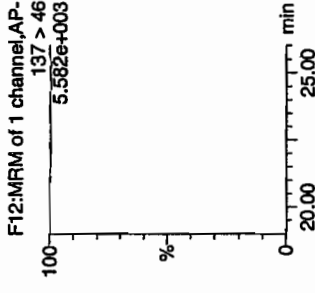
## 26-dinitrotoluene-d3



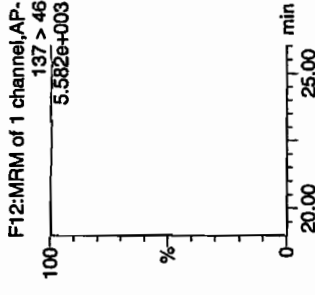
## 2-Nitrotoluene



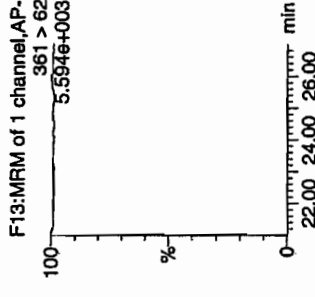
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	%Rec	%Dev	S/N
247343008	HMZ	176 > 102			5500.453								
247343008	RDX	176 > 102			5500.453								
247343008	135-Trinitrobenzene	213 > 183			5500.453								
247343008	13-Dinitrobenzene-d4	172 > 142	11.87		5500.453								
247343008	13-Dinitrobenzene	168 > 138			5500.453								
247343008	Tetryl	241 > 181			5500.453								
247343008	Nitrobenzene	123 > 46			5500.453								
247343008	4-Amino-26-dinitrotoluene	197 > 167			5500.453								
247343008	2-Amino-46-dinitrotoluene	197 > 180			5500.453								
247343008	246-Trinitrotoluene	227 > 210			5500.453								
247343008	34-dinitrotoluene	182 > 152	14.12	17453.949	34723.309	17453.949	251.329	bb			243.7418	97.5	-2.5
247343008	26-dinitrotoluene	182 > 152			34723.309								
247343008	24-dinitrotoluene	182 > 152			34723.309								
247343008	26-dinitrotoluene-d3	185 > 155	17.05	34723.309	34723.309	34723.309	34723.309	bb			496.2858	99.3	-0.7
247343008	2-Nitrotoluene	137 > 46			34723.309								
247343008	4-Nitrotoluene	137 > 46			34723.309								
247343008	3-Nitrotoluene	137 > 46			34723.309								
247343008	PETN	361 > 62			34723.309								

**1**  
**High Explosives Analysis Data Sheet**

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8205

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343008

Sample Amount 2

Moisture: 1.7

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100152.wiff

Date Analyzed: 12-MAR-10 07:02

Units: ug/kg

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

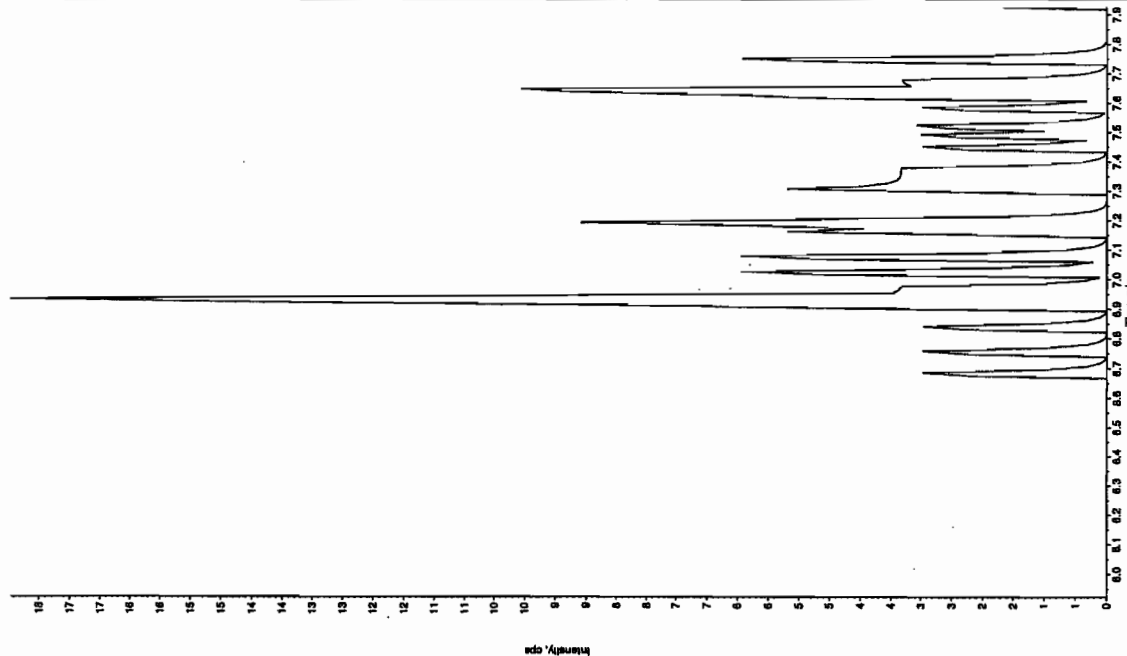
\*Concentration =

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

Jan 31/14/10

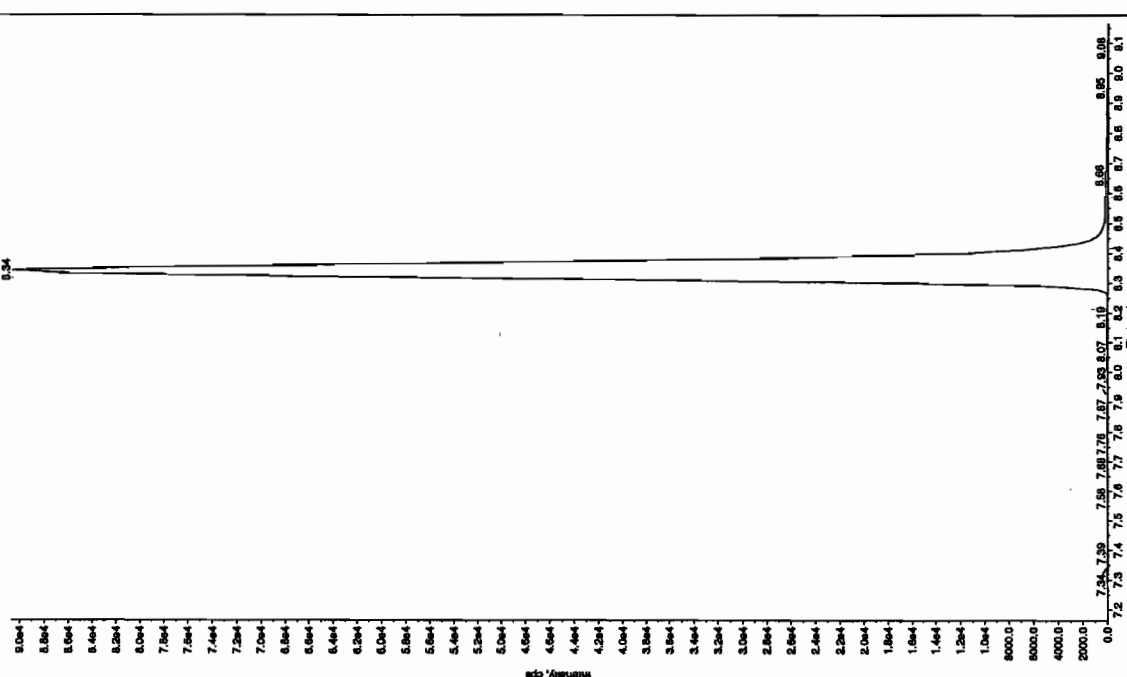
Sample Name: "247943008" Sample ID: "96508321ER" File: "EXS03100152.wif"  
Peak Name: "TATB" Mass(es): "257.2924.9 amu"  
Comment: "LCX832125" Annotation: "1"

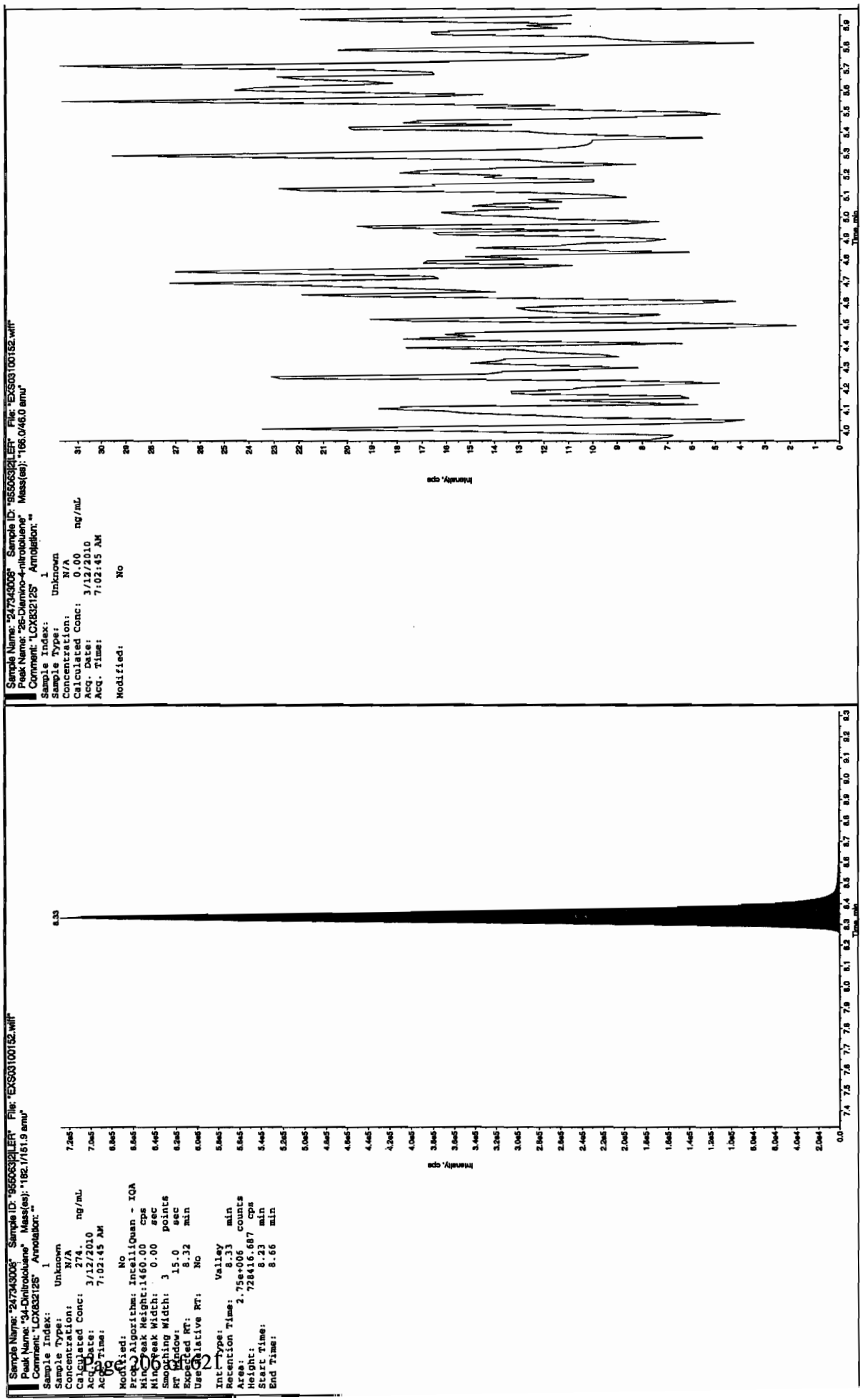
Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/12/2010  
Acq. Time: 7:02:45 AM  
Modified: No



Sample Name: "247943008" Sample ID: "96508321ER" File: "EXS03100152.wif"  
Peak Name: "3S-Dinitroaniline" Mass(es): "182.046.0 amu"  
Comment: "LCX832125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: 0.00 ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/12/2010  
Acq. Time: 7:02:45 AM  
Modified: No





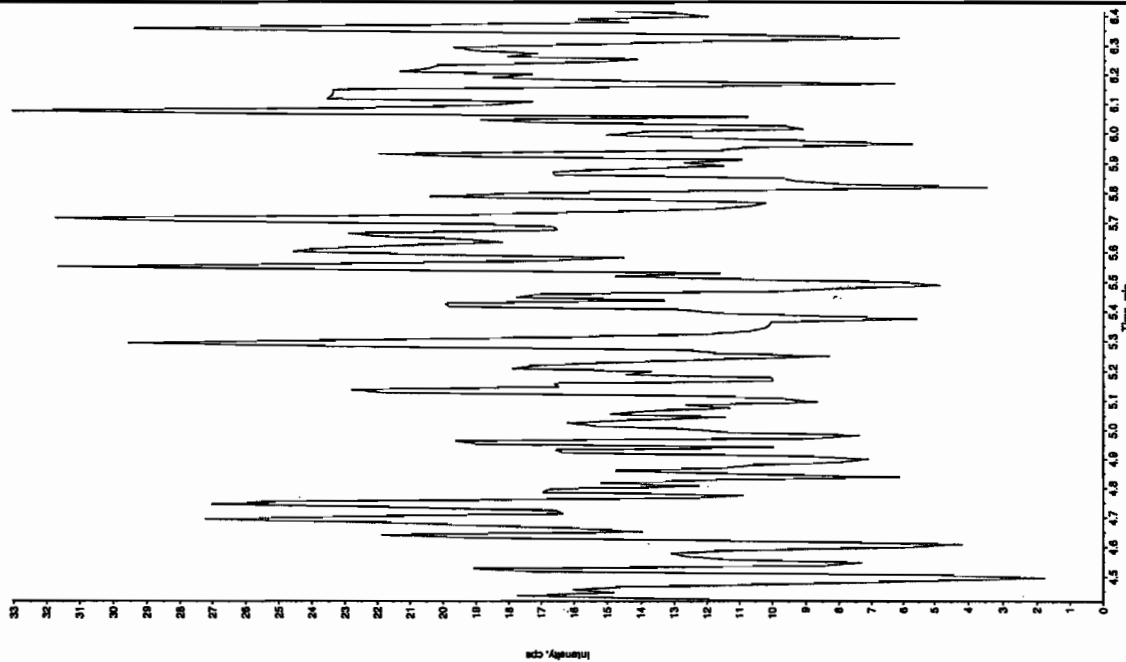
GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "247343008" Sample ID: "8550832125" File: "EX503100152.wif"  
Peak Name: "24-Diamine-5-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 7:02:45 AM  
Modified: No

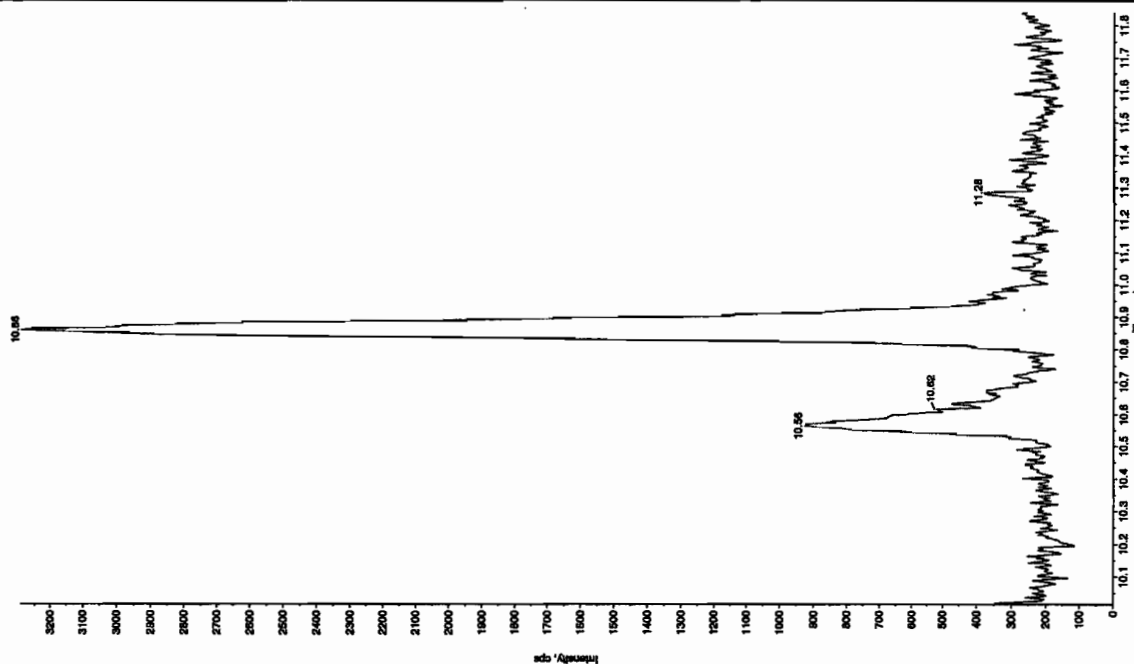


Sample Name: "247343008" Sample ID: "8550832125" File: "EX503100152.wif"  
Peak Name: "tris(o-cresyl) phosphite" Mass(es): "369.191.0 amu"

Comment: "LCX832125" Annotation: "

Sample Index: 1

Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 7:02:45 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412035a

Date Analyzed: 13-APR-10 08:23

Units: ug/kg

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

\*Concentration =

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



# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 69 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412035a

Date: 13-Apr-2010

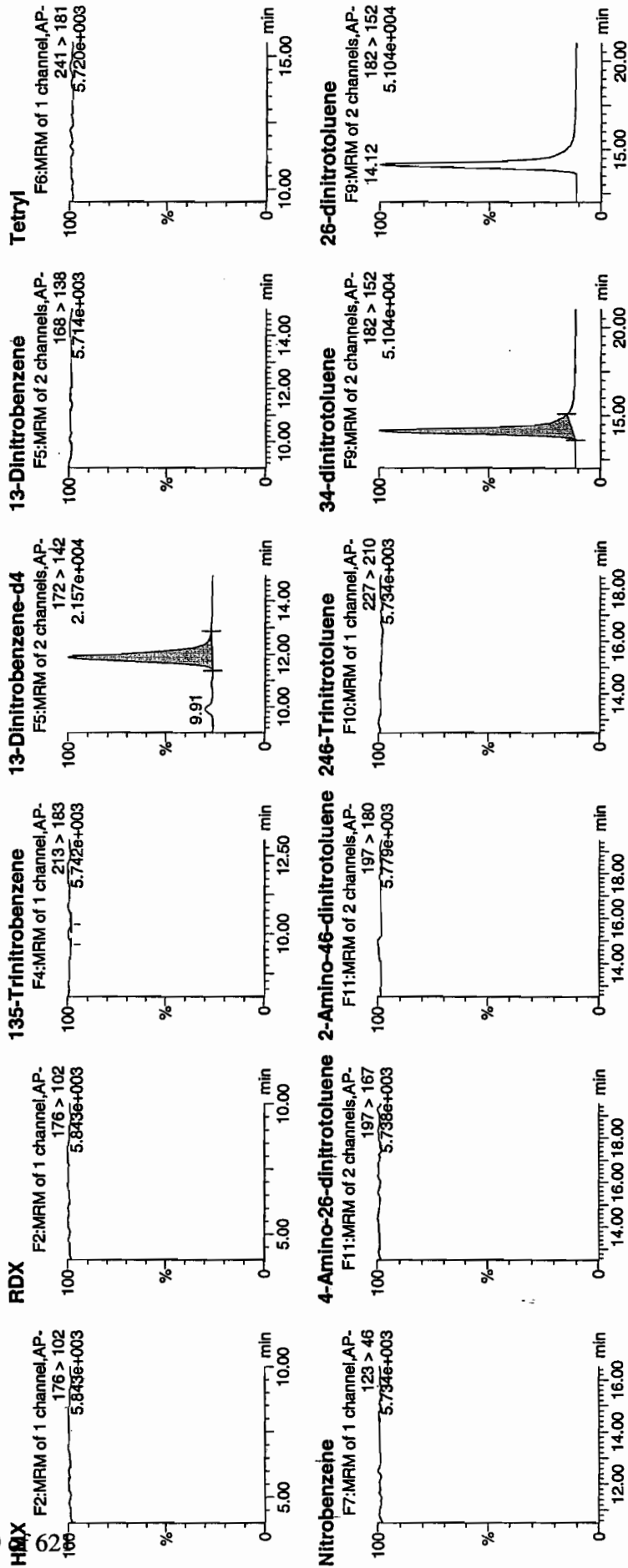
Time: 08:23:12

ID: 247343009

Vol: 2:4,B

1477  
4/13/10

WAV 955063 / 2 / 2



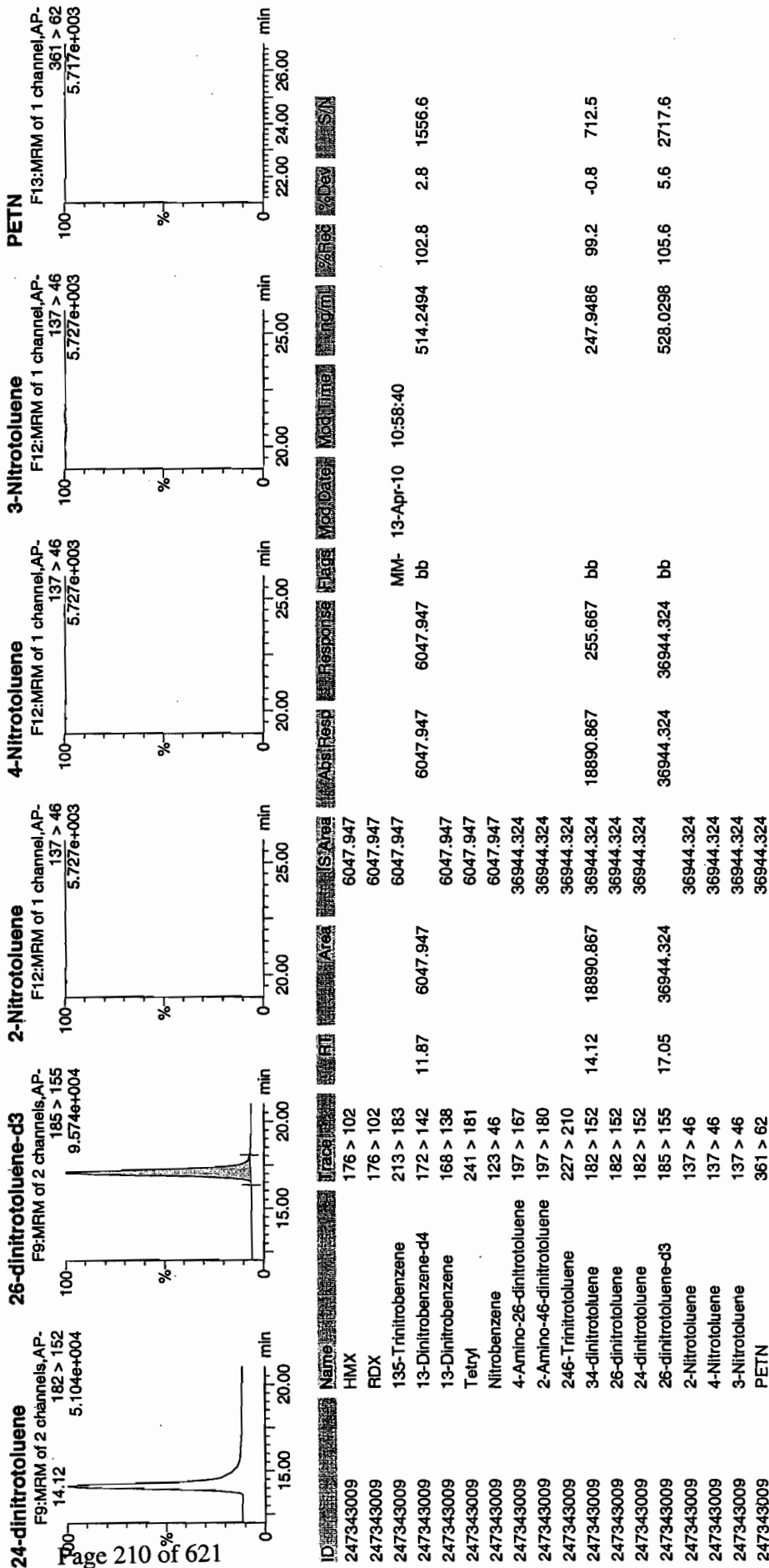
4/13/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 70 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8227

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343009

Sample Amount 2

Moisture: 2.2

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100153.wiff

Date Analyzed: 12-MAR-10 07:18

Units: ug/kg

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

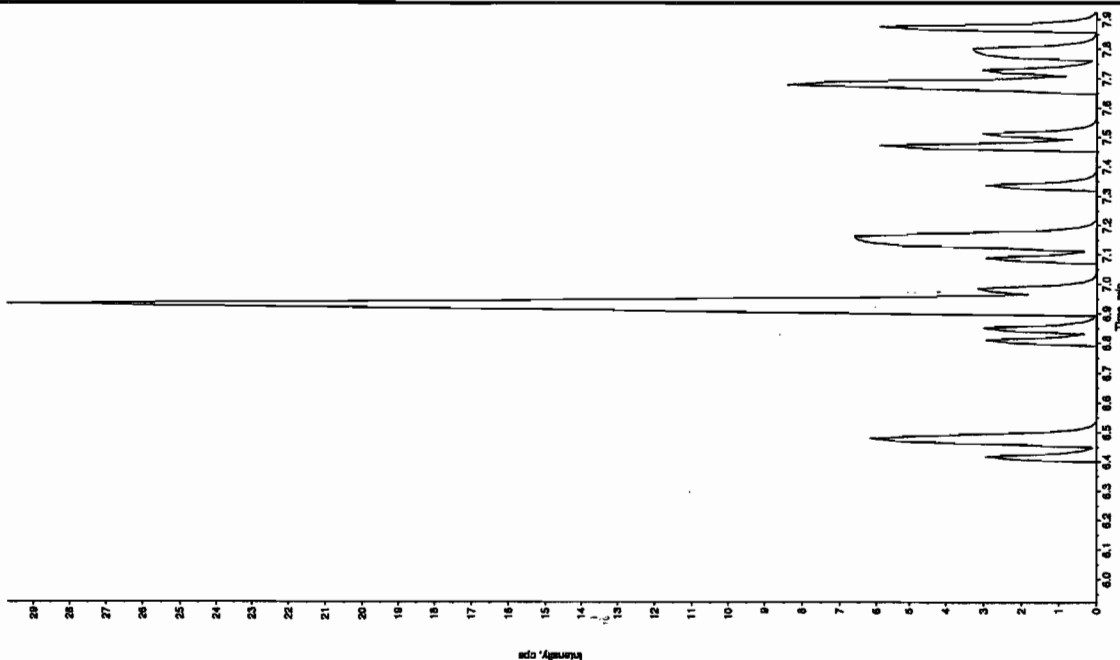
\*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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Run 3/14/10

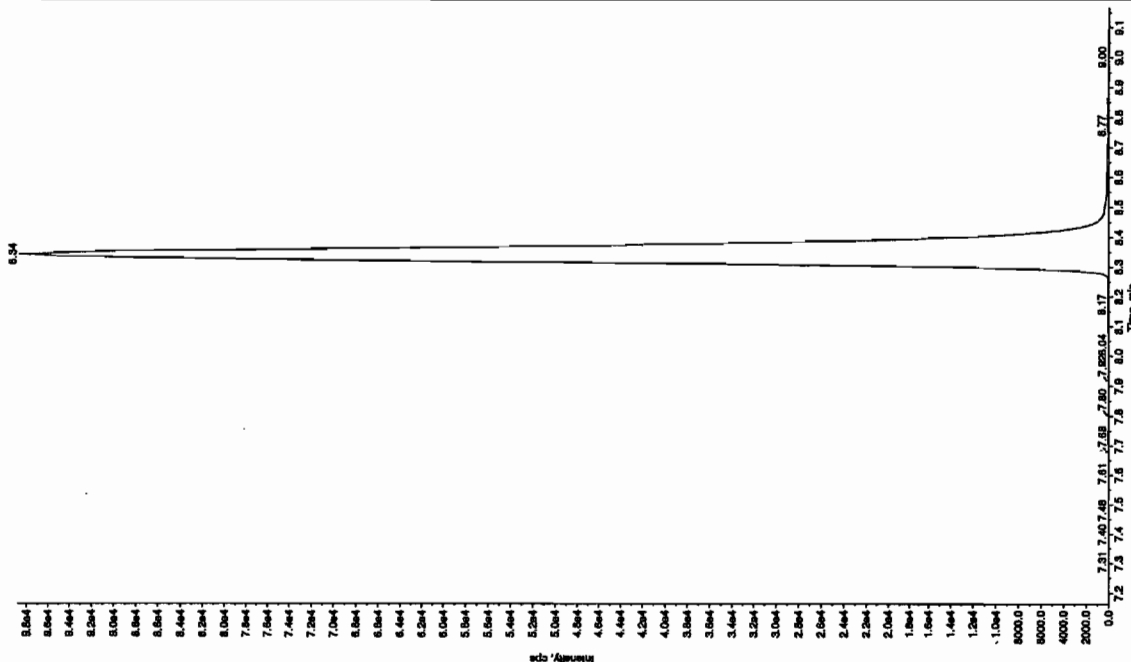
Sample Name: "247343009" Sample ID: "955063212" File: "EXS03100153.wif"  
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
Comment: "LCX83212S" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3.00 ng/mL  
Acq. Name: 3/12/2010  
Acq. Time: 7:18:29 AM  
Modified: No



Sample Name: "247343009" Sample ID: "955063212" File: "EXS03100153.wif"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/66.0 amu"  
Comment: "LCX83212S" Annotation: ""

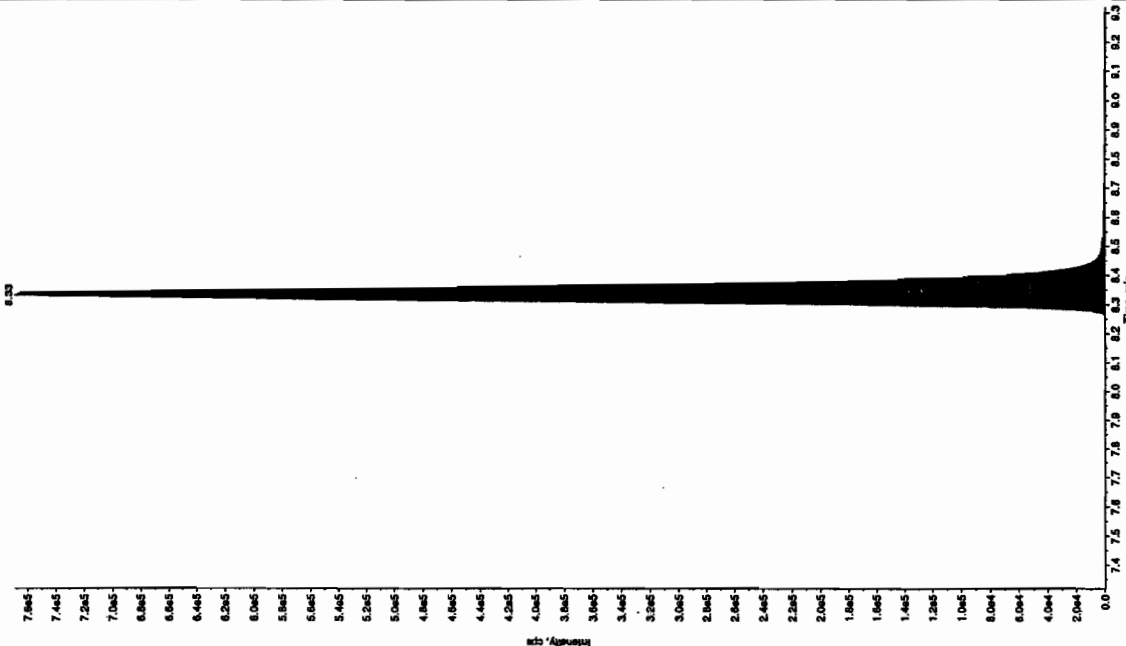
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 3.00 ng/mL  
Acq. Name: 3/12/2010  
Acq. Time: 7:18:29 AM  
Modified: No



Run 3/14/10

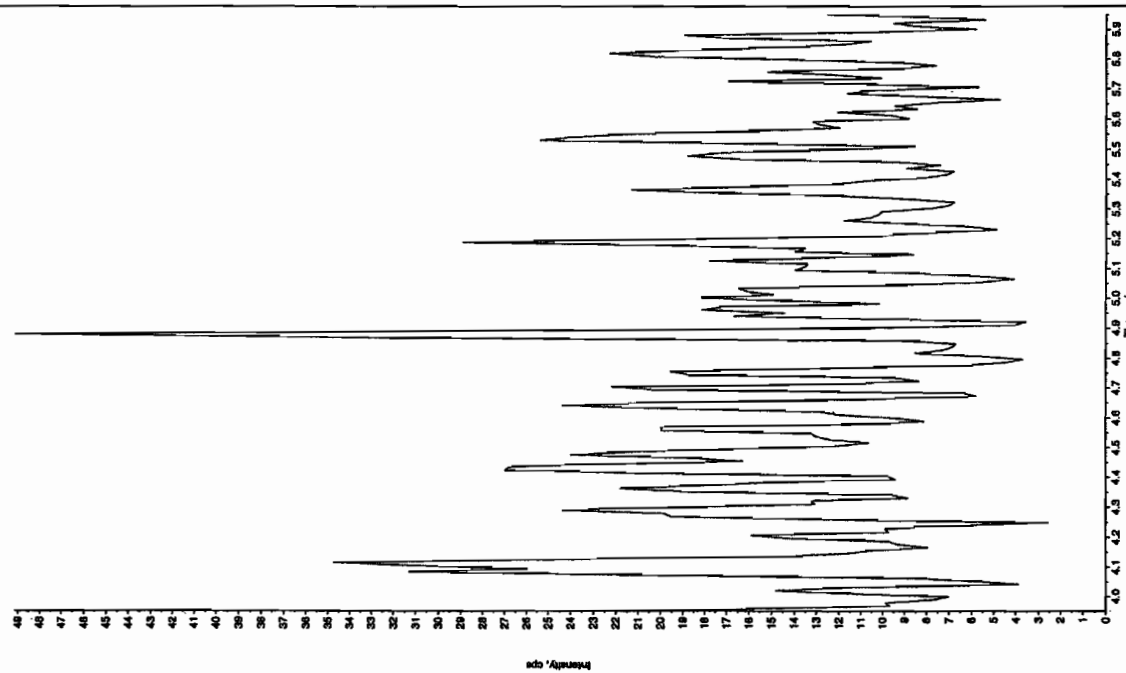
Sample Name: "247343009" Sample ID: "95506321ER" File: "EX503100153.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
Comment: "LCX832125" Annotation: ""

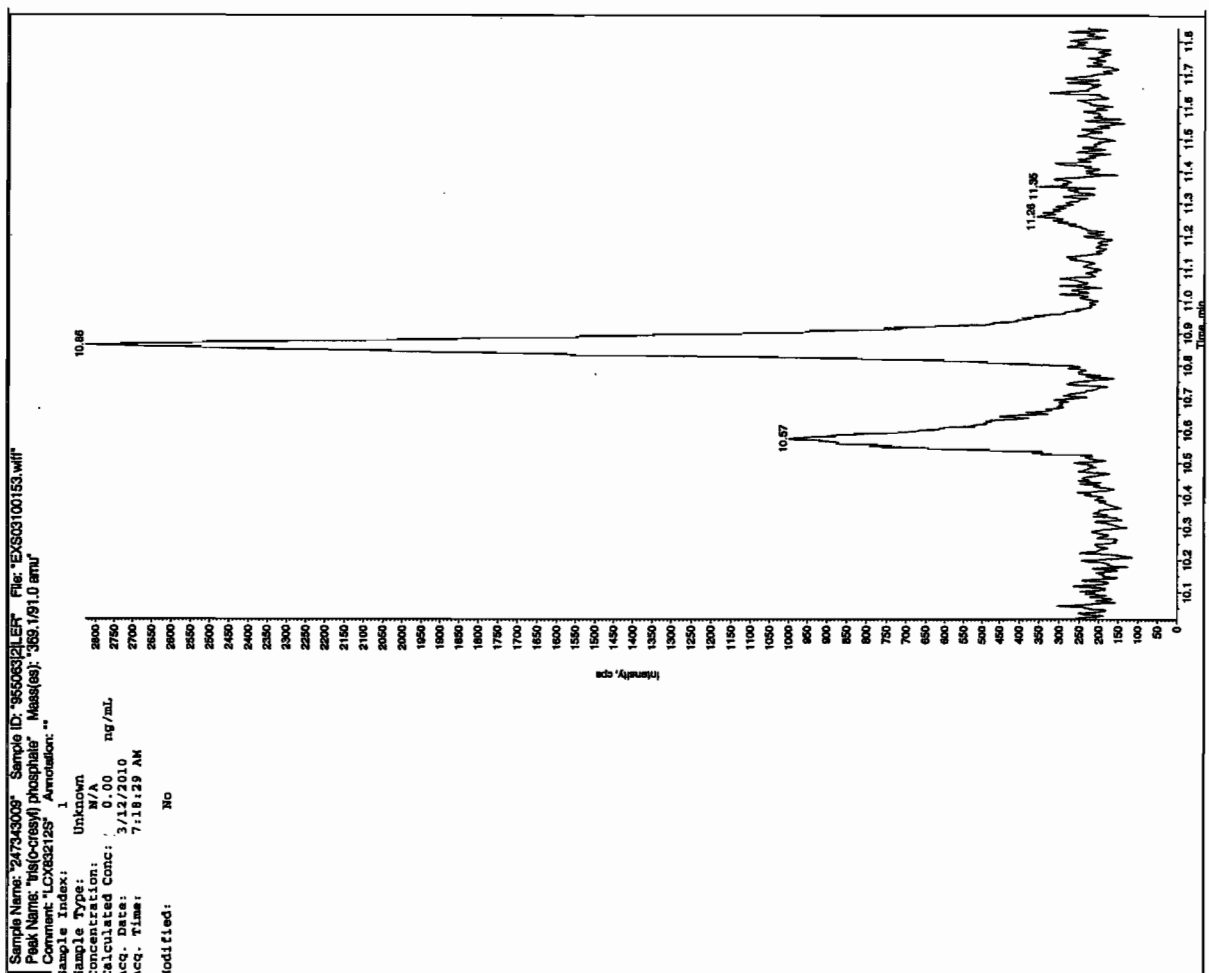
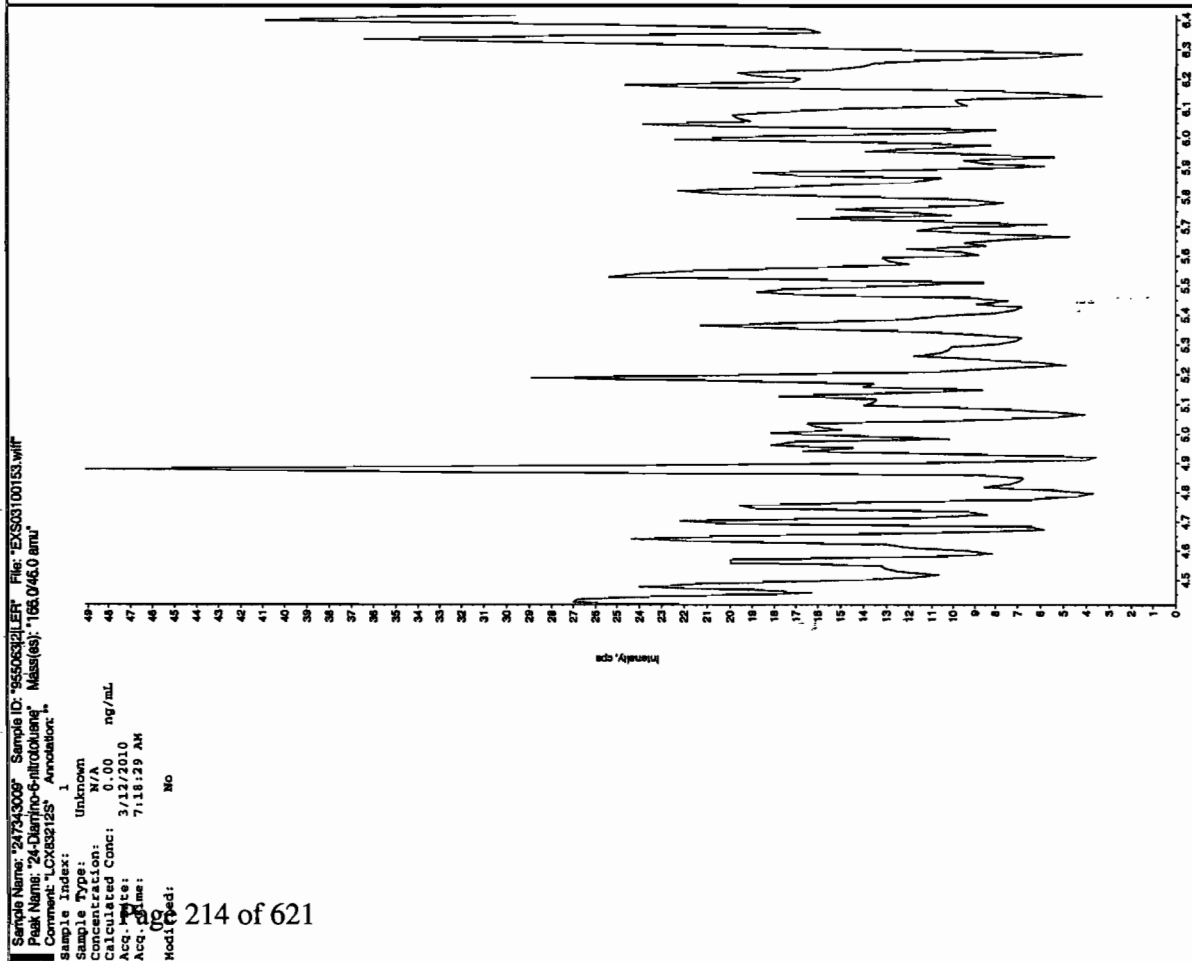
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 7/18/29 AM  
Acq. Time: 7:18:29 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Kin. Peak Height: 1460.00 cps  
Kin. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
Xt Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 2.89e+006 counts  
Height: 769293.030 cps  
Start Time: 8.22 min  
End Time: 8.66 min



Sample Name: "247343009" Sample ID: "95506321ER" File: "EX503100153.wif"  
Peak Name: "28-Diamino-4-nitrofluorene" Mass(es): "186.0/166.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 7/18/29 AM  
Acq. Time: 7:18:29 AM  
Modified: No





1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8228

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343010

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412039a

Date Analyzed: 13-APR-10 10:21

Units: ug/kg

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

\*Concentration =

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

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 1 of 75

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Method: C:\MASSLYNX\New\_Exp.PRO\MethDB\041210expa.mdb, Time: Tue Apr 13 09:03:30 2010  
Calibration: C:\MASSLYNX\New\_Exp.PRO\CurveDB\041210expa.cdb, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412039a

Date: 13-Apr-2010

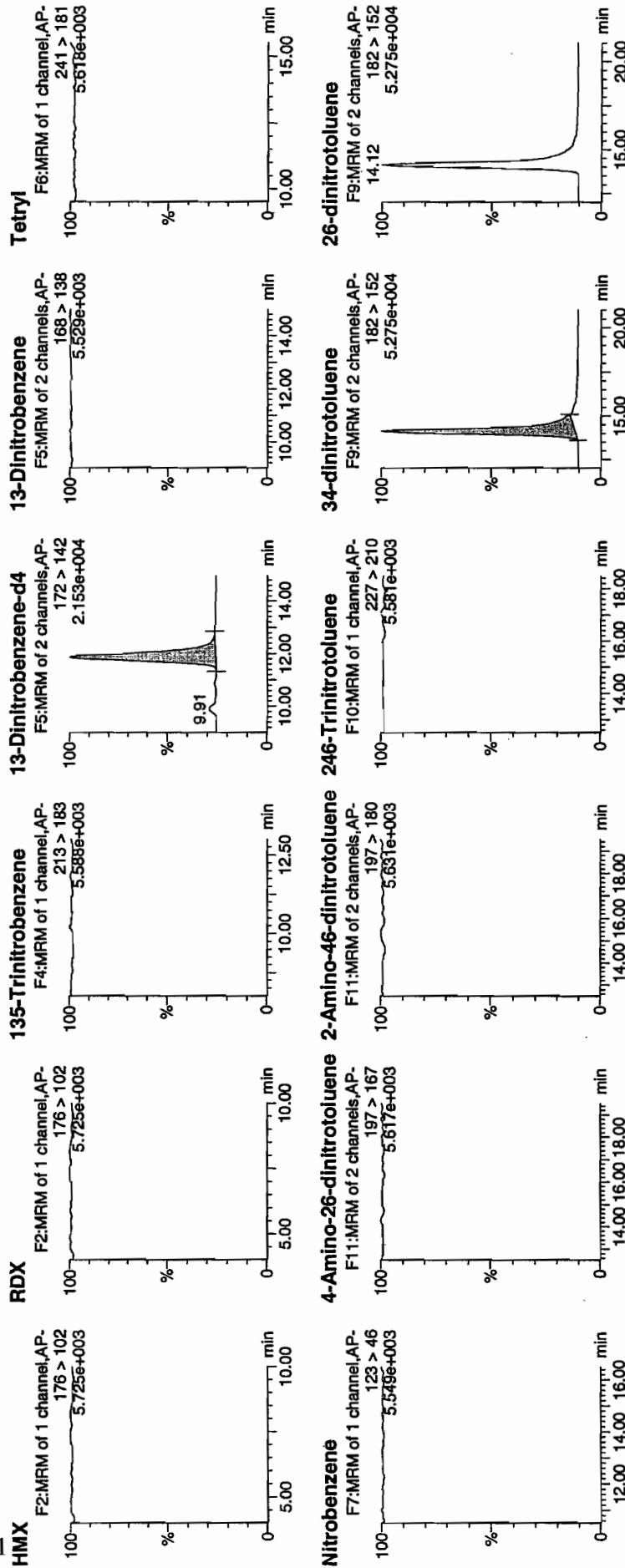
Time: 10:21:16

ID: 247343010

Val: 2:4,C

M77  
4/14/10

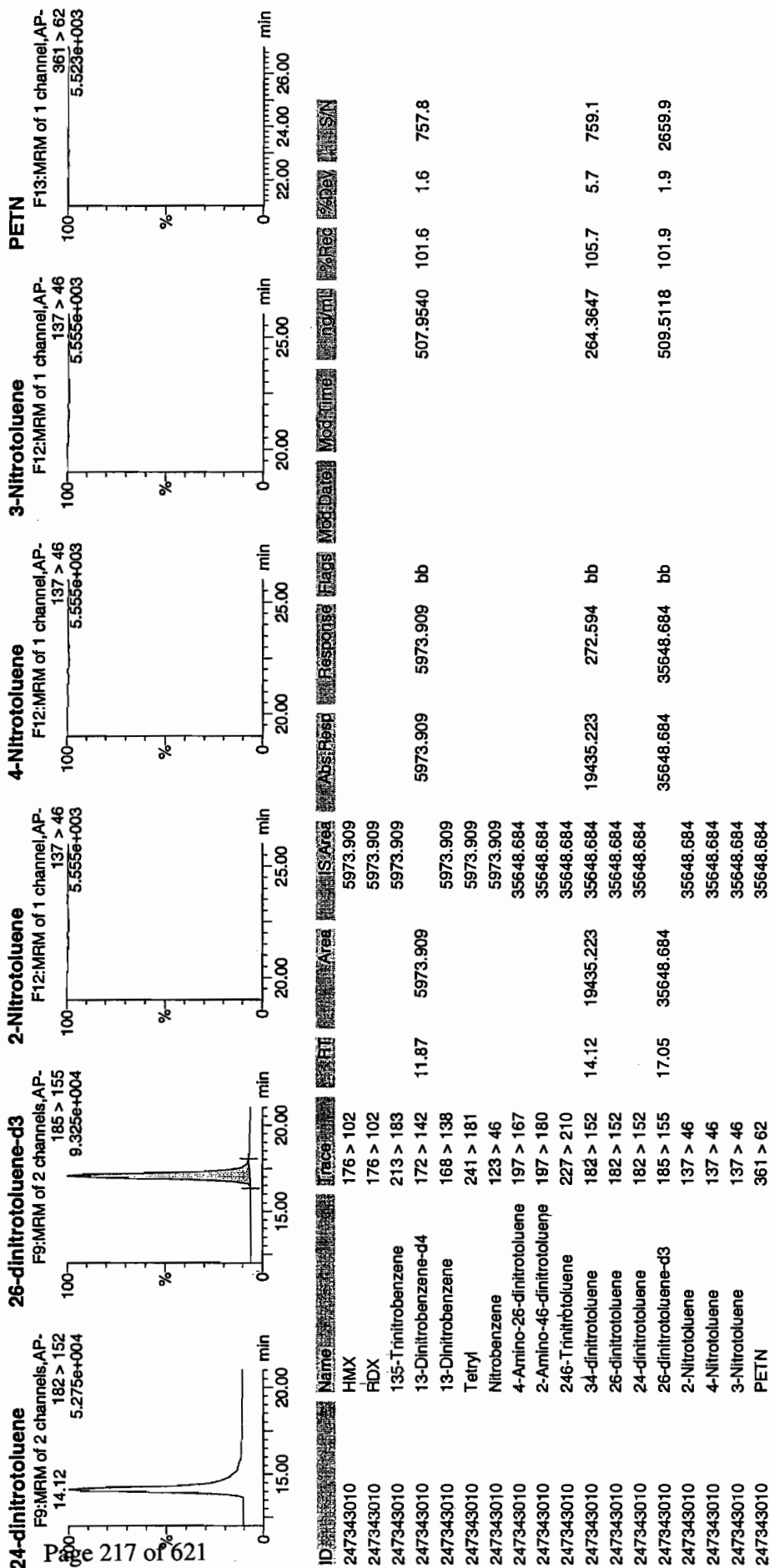
WAV/955063 / 8022 / 21



4/14/10



Dataset: C:\MASSLYNX\New\_Exp\_PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8228

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343010

Sample Amount 2

Moisture: 1.6

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100157.wiff

Date Analyzed: 12-MAR-10 08:21

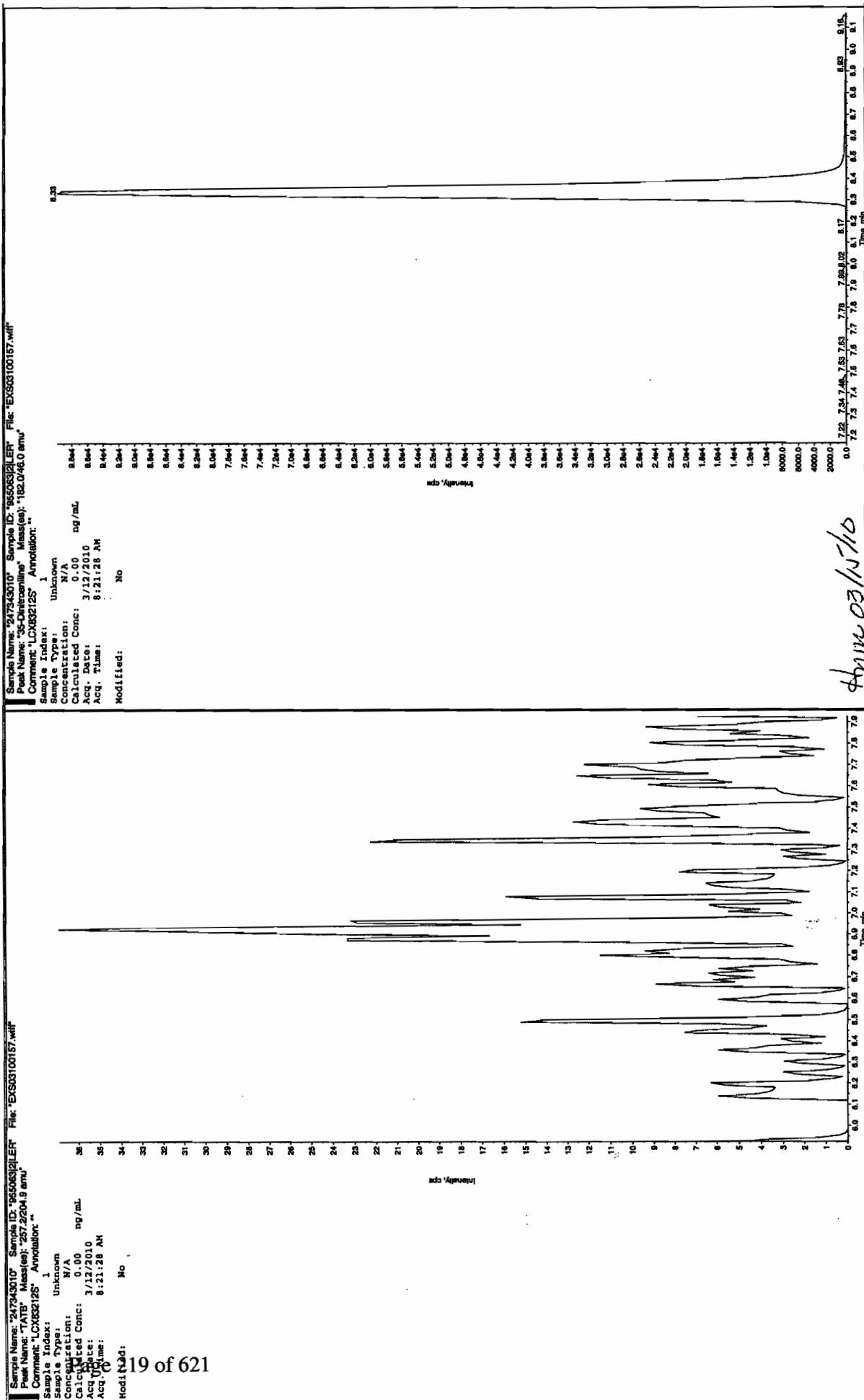
Units: ug/kg

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

\*Concentration =

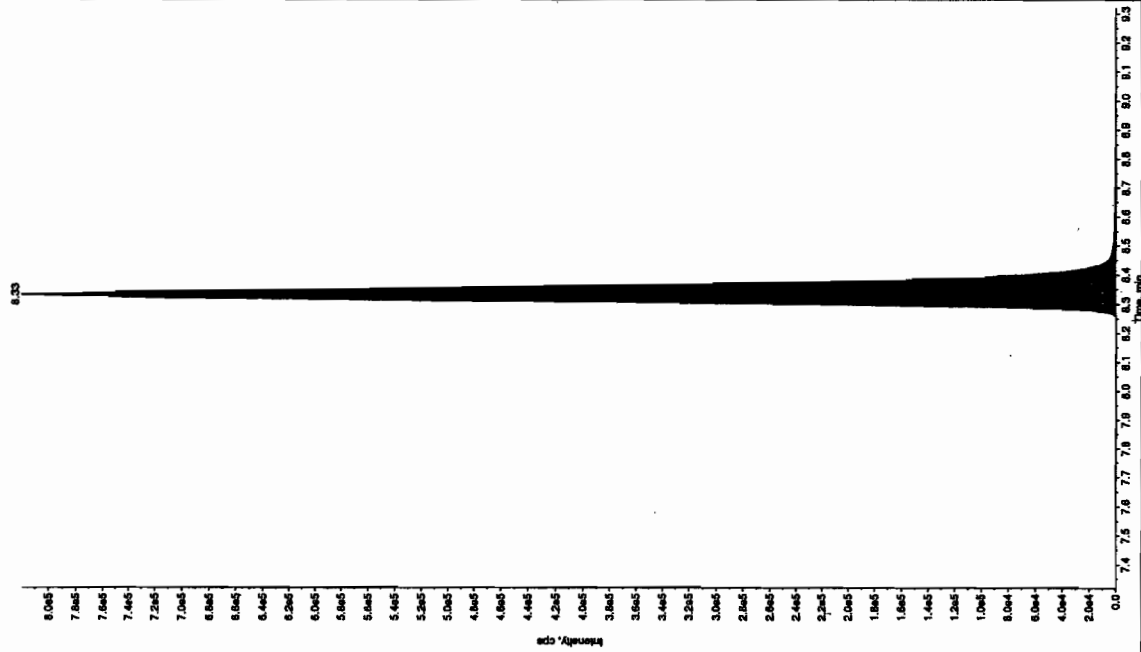
Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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Jan 3/14/10



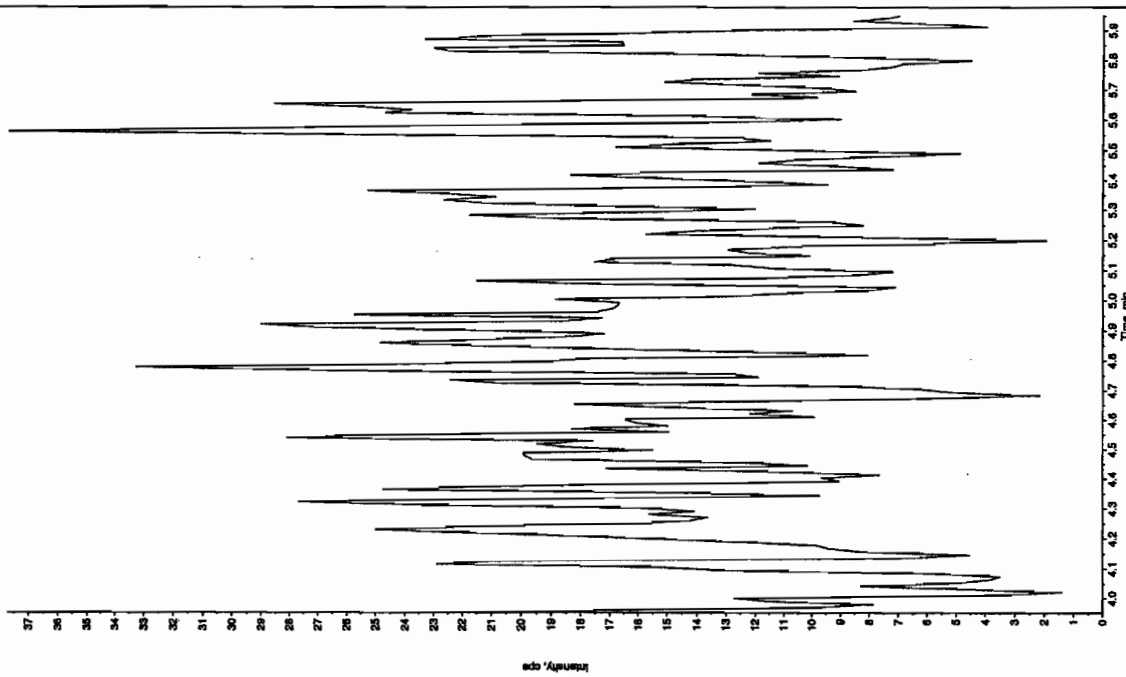
Sample Name: "97743010" Sample ID: "95503010157.wif" File: "EX503100157.wif"  
Peak Name: "24-Dinitrochlorobenzene" Mass(es): "162.151.9 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 303. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 8:21:28 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: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Peak Height: 3.03e+006 cps  
Start Time: 8.24 min  
End Time: 8.69 min



Sample Name: "97743010" Sample ID: "95503010157.wif" File: "EX503100157.wif"  
Peak Name: "26-Dinitro-4-nitrochlorobenzene" Mass(es): "166.046.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 8:21:28 AM  
Modified: No



Sample Name: "247343010" Sample ID: "95503100157.wif" File: "EX503100157.wif"

Peak Name: "24-Diamino-5-nitrotoluene" Mass(es): "166.046.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

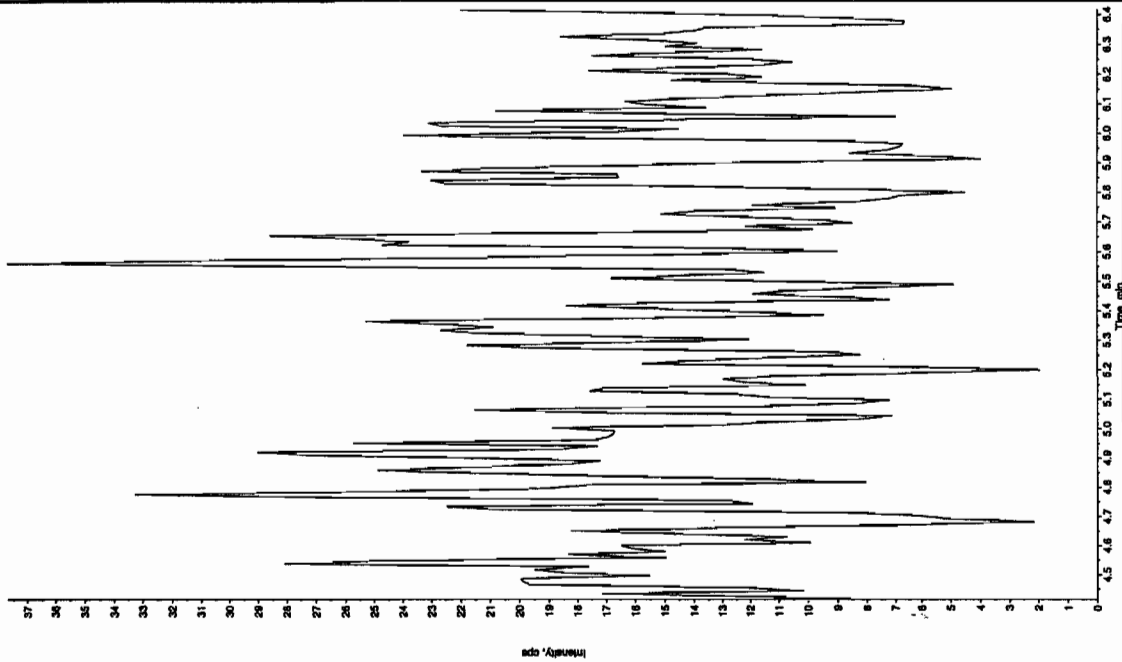
Concentration: 0.00 ng/mL

Calculated Conc: 3/12/2010

Acq. Date: 8/21/28 AM

Acq. Time: 8:21:28 AM

Modified: No



Sample Name: "247343010" Sample ID: "95503100157.wif" File: "EX503100157.wif"

Peak Name: "tris(o-cresyl) phosphite" Mass(es): "366.191.0 amu"

Comment: "LCX83212S" Annotation: ""

Sample Index: 1

Sample Type: Unknown

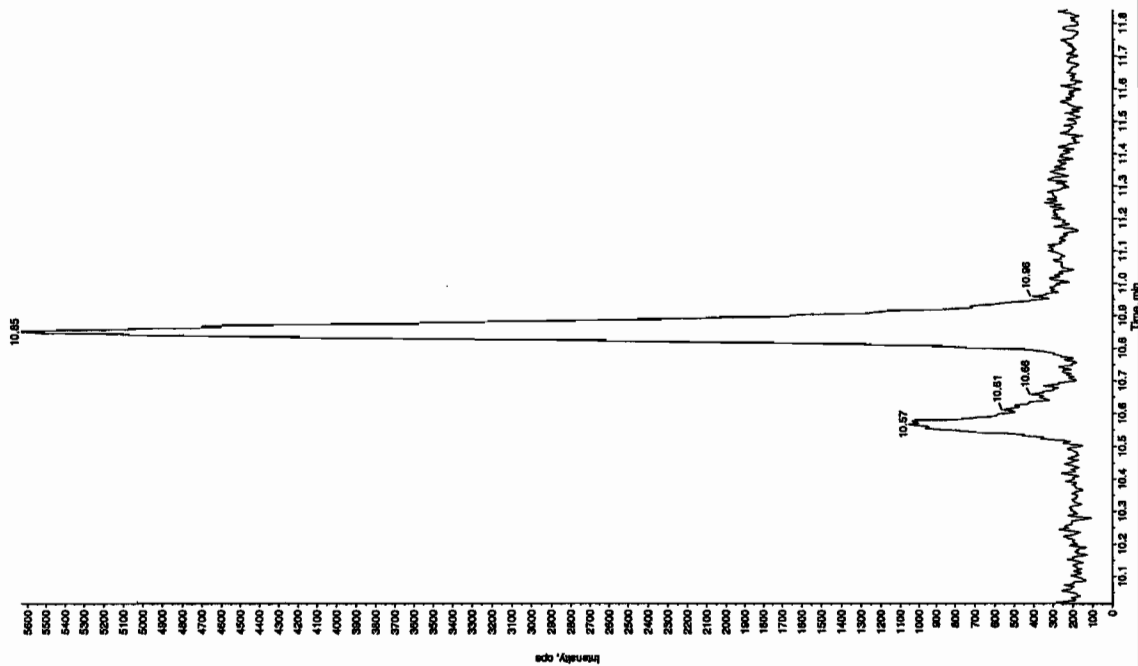
Concentration: 0.00 ng/mL

Calculated Conc: 3/12/2010

Acq. Date: 8/21/28 AM

Acq. Time: 8:21:28 AM

Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8212

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343011

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412040a

Date Analyzed: 13-APR-10 10:50

Units: ug/kg

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

\*Concentration =

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

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Wed Apr 14 09:18:04 2010, Page 3 of 75

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412040a

Date: 13-Apr-2010

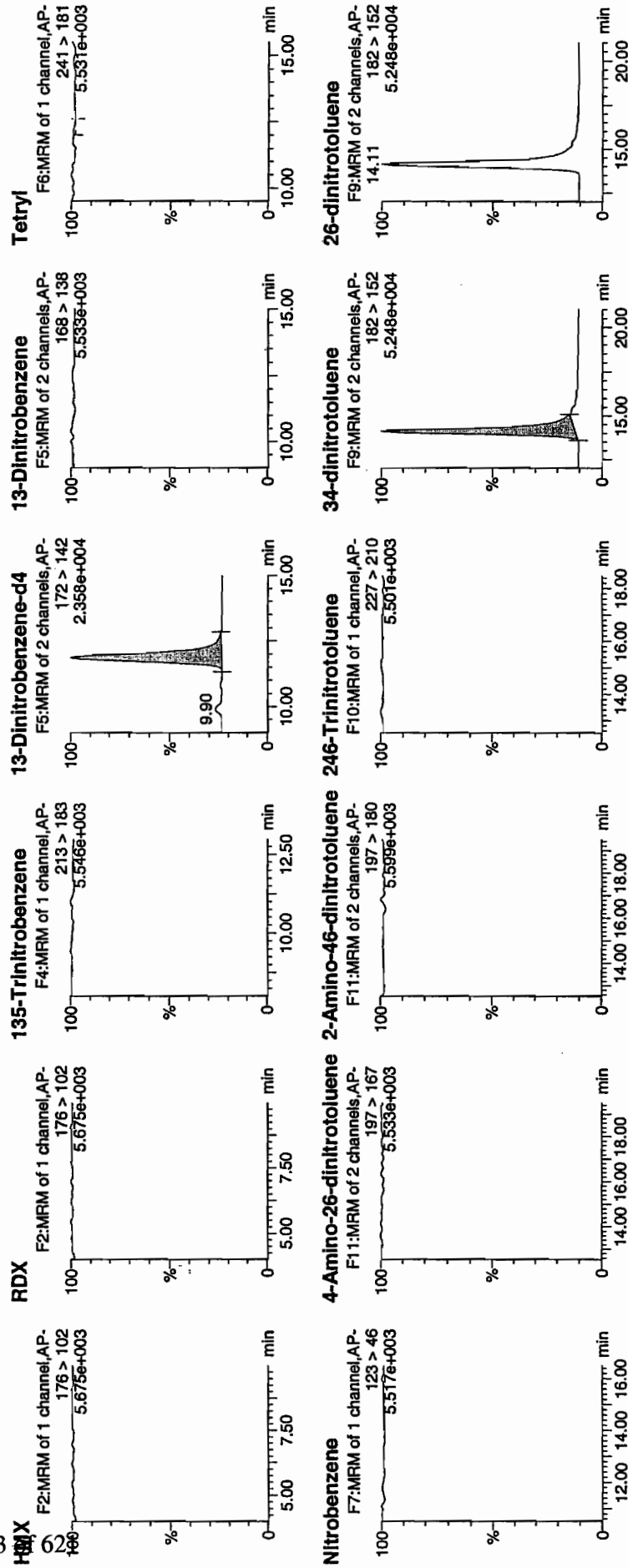
Time: 10:50:48

ID: 247343011

Vial: 2:4,D

1077  
4/14/10

21  
LAW/95063/Sol



4mm  
4/14/10

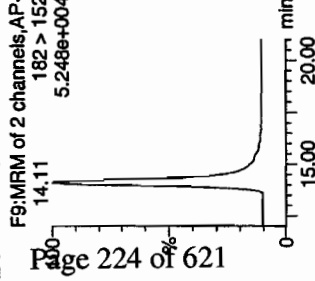
# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

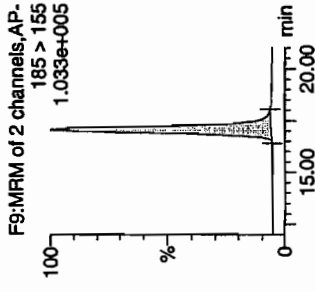
Printed: Wed Apr 14 09:18:04 2010, Page 4 of 75

Dataset: C:\MASSLYNX\New\_Exp\PROJ41210expA1.qld, Time: Wed Apr 14 09:16:31 2010

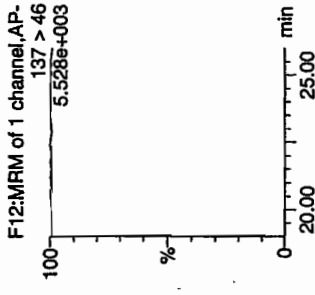
## 24-dinitrotoluene



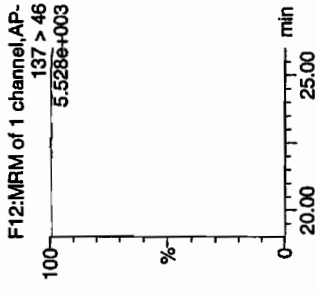
## 26-dinitrotoluene-d3



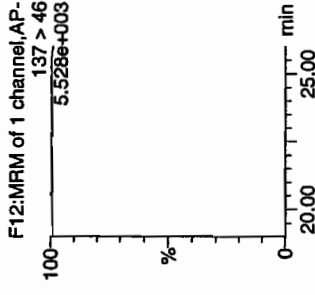
## 2-Nitrotoluene



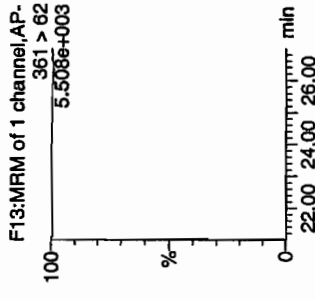
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	Area	IS Area	Abundance	Response	Flags	Mod	Time	%Area	%Dev	MSN
----	------	-------	------	---------	-----------	----------	-------	-----	------	-------	------	-----

247343011	HMX	176 > 102	6846.337	6846.337								
247343011	RDX	176 > 102	6846.337	6846.337								
247343011	135-Trinitrobenzene	213 > 183	6846.337	6846.337								
247343011	13-Dinitrobenzene-d4	172 > 142	11.86	6846.337	6846.337	6846.337	bb		582.1355	116.4	16.4	680.3
247343011	13-Dinitrobenzene	168 > 138										
247343011	Tetryl	241 > 181										
247343011	Nitrobenzene	123 > 46										
247343011	4-Amino-26-dinitrotoluene	197 > 167										
247343011	2-Amino-46-dinitrotoluene	197 > 180										
247343011	246-Trinitrotoluene	227 > 210										
247343011	34-dinitrotoluene	182 > 152	14.11	19795.902	40061.313	19795.902	bb		239.6115	95.8	-4.2	685.2
247343011	26-dinitrotoluene	182 > 152			40061.313							
247343011	24-dinitrotoluene	182 > 152			40061.313							
247343011	26-dinitrotoluene-d3	185 > 155	17.06	40061.313	40061.313	40061.313	bb		572.5797	114.5	14.5	2326.7
247343011	2-Nitrotoluene	137 > 46			40061.313							
247343011	4-Nitrotoluene	137 > 46			40061.313							
247343011	3-Nitrotoluene	137 > 46			40061.313							
247343011	PETN	361 > 62			40061.313							



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: RE15-10-8212

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 247343011

Sample Amount 2

Moisture: 1.5

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100158.wiff

Date Analyzed: 12-MAR-10 08:37

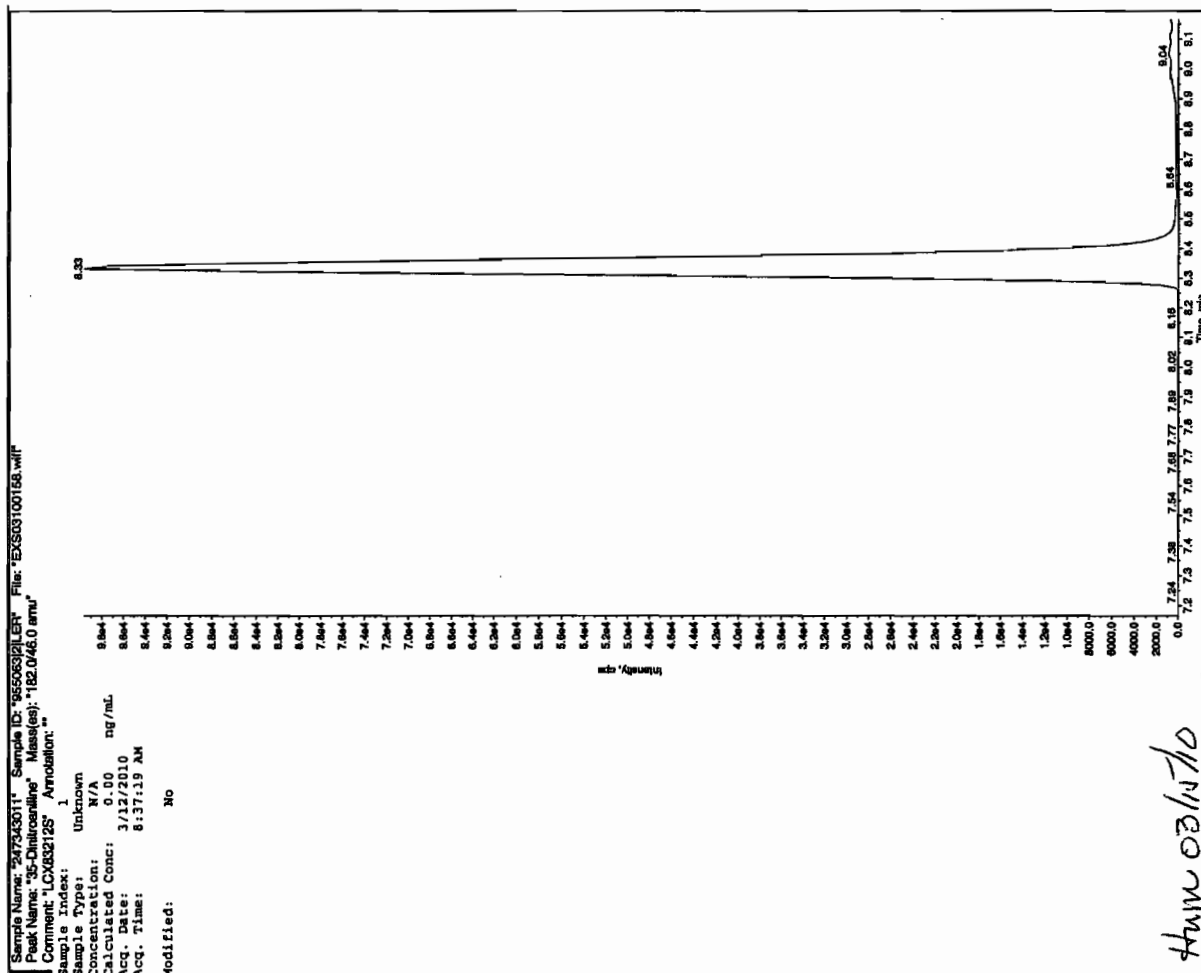
Units: ug/kg

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

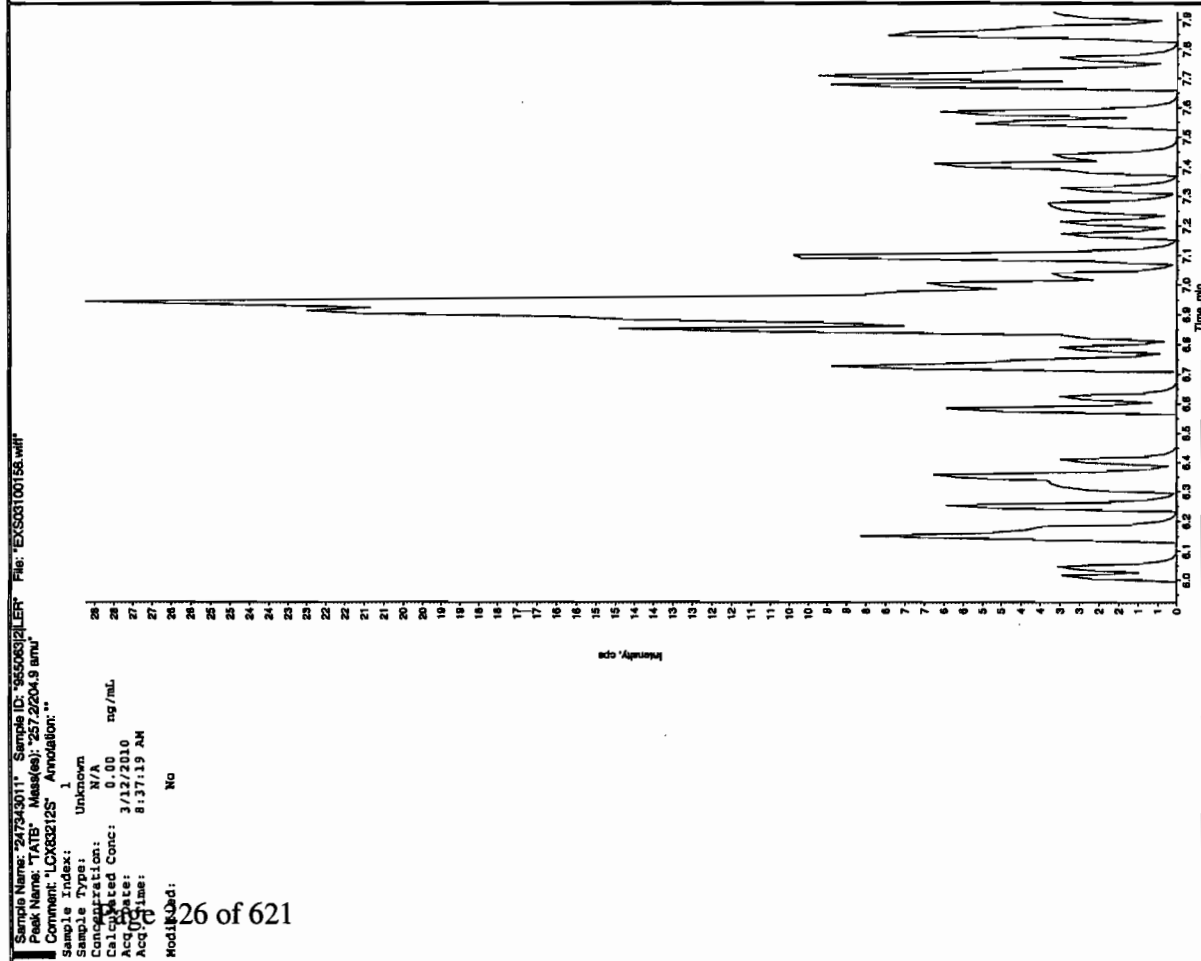
\*Concentration =

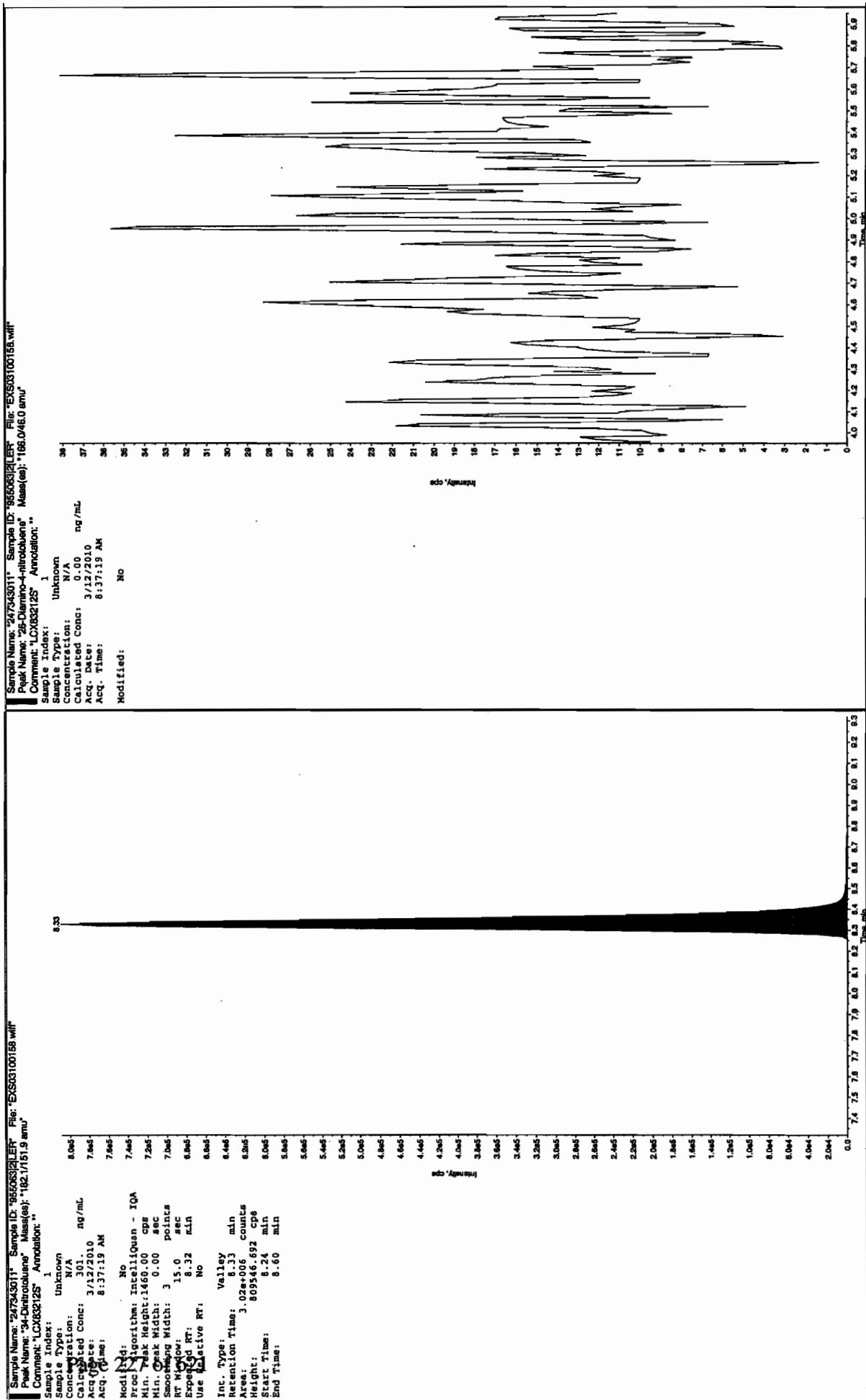
Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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See 3/14/10



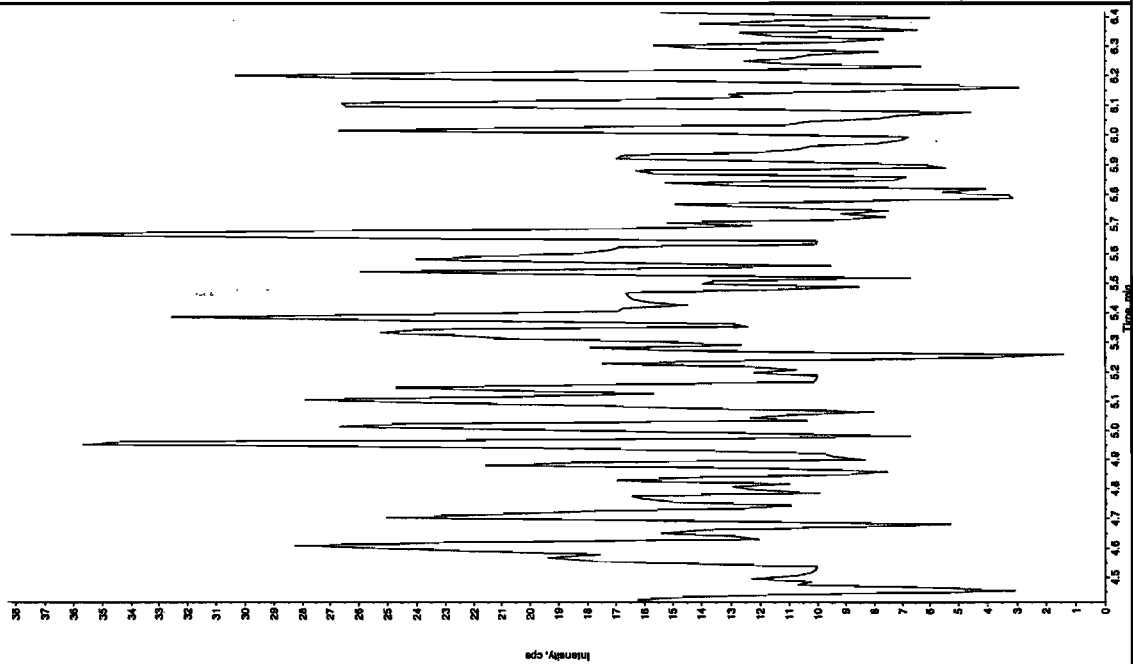
See 03/14/10





Sample Name: "247343011" Sample ID: "95503021ER" File: "EX503100158.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCX832125" Annotation: ""

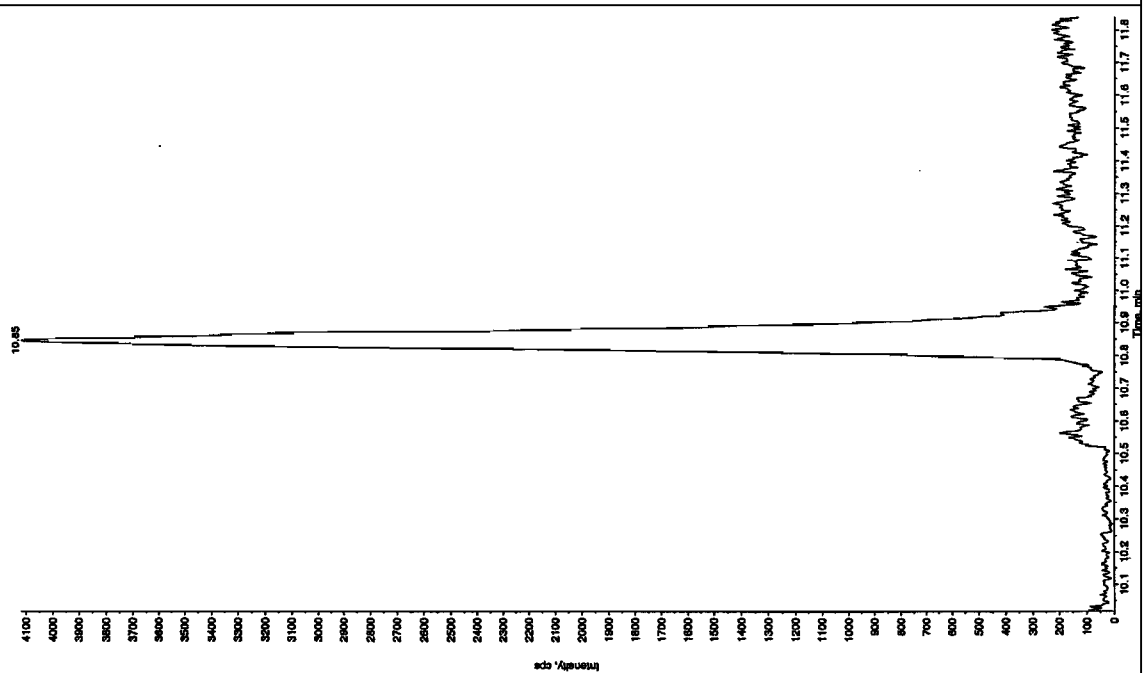
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/12/2010  
Acq. Time: 8:37:19 AM  
Modified: No



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

Sample Name: "247343011" Sample ID: "95503021ER" File: "EX503100158.wif"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "359.191.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A ng/mL  
Calculated Conc: 0.00  
Acq. Date: 3/12/2010  
Acq. Time: 8:37:19 AM  
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
	12.5	25	100	200	400	500		300
<b>3,4-Dinitrotoluene (Surrogate)</b>								
<b>Primary Analytes</b>								
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
<b>3,4-Dinitrotoluene (Surrogate)</b>								
<b>Secondary Analytes</b>								
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)

## Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1908

Lab Code: GEL

Run Date: 10-MAR-10.12-APR-10

LCMSMS Instrument ID: LCMSMS

Method: 8321A Modified

HPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: Average RF

Paramname	1	2	3	4	5	6	Ave RF	RSD	Q
Calibration Level:	EXP0412003a	EXP0412004a	EXP0412005a	EXP0412006a	EXP0412007a	EXP0412008a			
Data File:									
1,3,5-Trinitrobenzene	4.711	4.33	4.184	4.118	4.135	4.46	4.323	5.342	
1,3-Dinitrobenzene-d4	11.467	12.345	11.86	12.536	12.341	10.015	11.761	7.996	
2,4,6-Trinitrotoluene	.41	.394	.427	.449	.461	.469	0.435	6.752	
2,4-Dinitrotoluene	.262	.241	.266	.256	.262	.279	0.261	4.785	
2,6-Dinitrotoluene	1.228	1.123	1.137	1.19	1.203	1.22	1.184	3.683	
2,6-Dinitrotoluene-d3	63.991	74.817	73.595	74.921	70.943	61.531	69.966	8.311	
2-Amino-4,6-dinitrotoluene	.484	.481	.503	.515	.535	.556	0.512	5.686	
3,4-Dinitrotoluene	1.117	.974	.984	1.041	1.027	1.044	1.031	4.983	
4-Amino-2,6-dinitrotoluene	.361	.326	.32	.335	.34	.344	0.338	4.22	
HMX	3.896	4.064	4.283	4.375	4.325	4.489	4.239	5.149	
Nitrobenzene	.565	.604	.633	.662	.625	.674	0.627	6.339	
RDX	2.18	2.427	3.051	3.081	3.073	3.36	2.862	15.868	
Tetryl	1.226	1.243	1.421	1.278	1.24	1.37	1.296	6.198	
m-Dinitrobenzene	1.304	1.349	1.33	1.336	1.312	1.391	1.337	2.342	
m-Nitrotoluene	.055	.071	.054	.053	.061	.056	0.058	11.551	
o-Nitrotoluene	.105	.086	.078	.084	.079	.088	0.087	11.254	
p-Nitrotoluene	.042	.041	.038	.043	.042	.044	0.042	5.194	

Q column used to flag RSD values outside of Limit (&gt;20%)

\* Values outside of QC Limit

## Explosives Initial Calibration

Lab Name: GEL Laboratories LLCGEL Job No: 10-1908Lab Code: GELRun Date: 10-MAR-10.12-APR-10LCMSMS Instrument ID: LCMSMSMethod: 8321A ModifiedHPLC Column: Phenomenex Ultracarb 5 ODS(20)

Calibration Type: 2nd Order

	1	2	3	4	5	6	X	X^2	Intercept	COD	Q
Calibration Level:											
Data File:	EXP0412003a	EXP0412004a	EXP0412005a	EXP0412006a	EXP0412007a	EXP0412008a					
Parname:											
PETN	2009.76	4470.27	14910.6	28870.8	46927.1	49397.1	1.007	-0.00022	9.637	.9994	

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 (&lt;0.990)

\* Values outside of QC Limit



Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

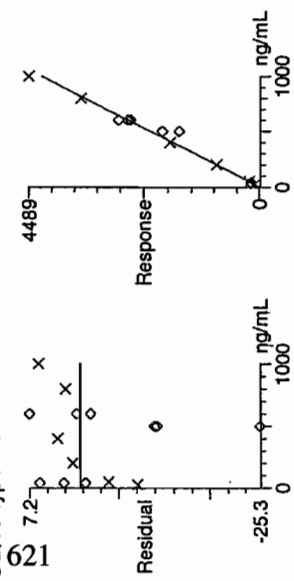
Printed: Tue Apr 13 11:14:26 2010, Page 1 of 9

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

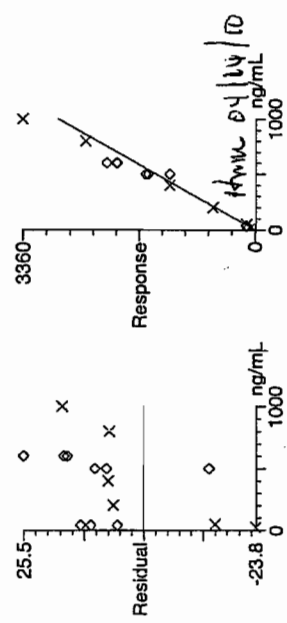
Method: C:\MASSLYNX\New\_Exp.PRO\IMethDB\041210expa.mdb, Time: Tue Apr 13 09:03:30 2010

Calibration: Untitled, Time: Tue Apr 13 11:12:22 2010

Compound name: HMX  
Response Factor: 4.23867  
RRF SD: 0.218263, % Relative SD: 5.14933  
Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

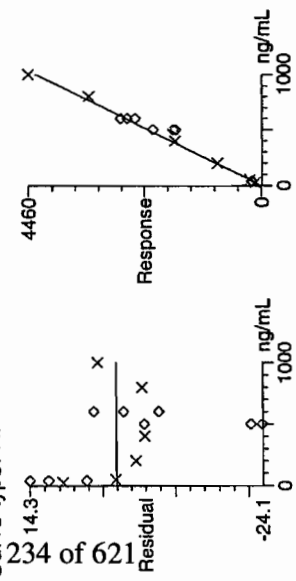


Compound name: RDX  
Response Factor: 2.8622  
RRF SD: 0.454164, % Relative SD: 15.8676  
Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

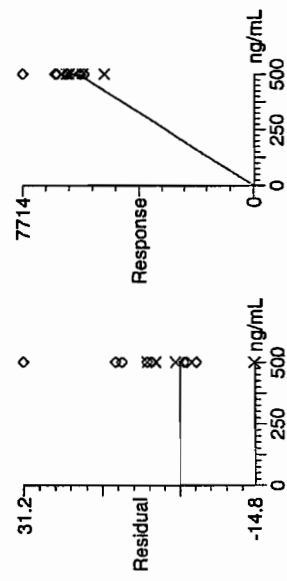


Dataset: C:\MASSLYNX\New\_Exp\PRO1041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 135-Trinitrobenzene  
Response Factor: 4.32298  
RRF SD: 0.230915, % Relative SD: 5.34157  
Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



Compound name: 13-Dinitrobenzene-d4  
Response Factor: 11.7607  
RRF SD: 0.940441, % Relative SD: 7.99645  
Response type: External Std, Area  
Curve type: RF



Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

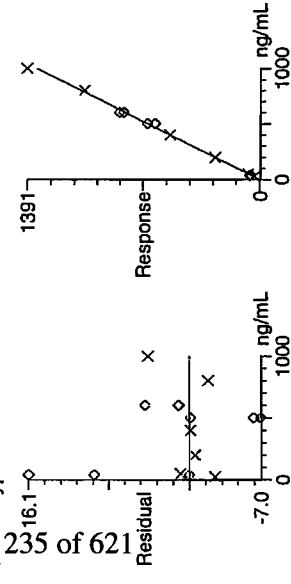
Compound name: 13-Dinitrobenzene

Response Factor: 1.33707

RRF SD: 0.0313205, % Relative SD: 2.34247

Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



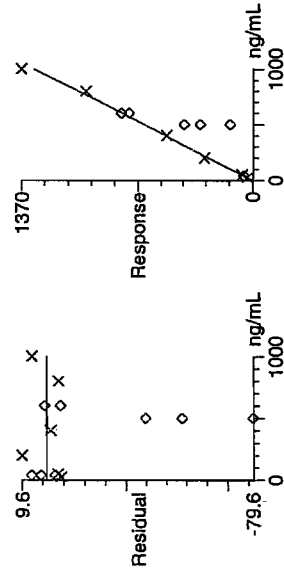
Compound name: Tetra

Response Factor: 1.29627

RRF SD: 0.0803478, % Relative SD: 6.19837

Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



# Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 4 of 9

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

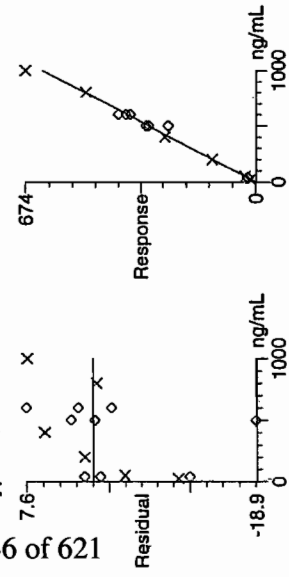
Compound name: Nitrobenzene

Response Factor: 0.627297

RRF SD: 0.0397666, % Relative SD: 6.33936

Response type: Internal Std ( Ref 4 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



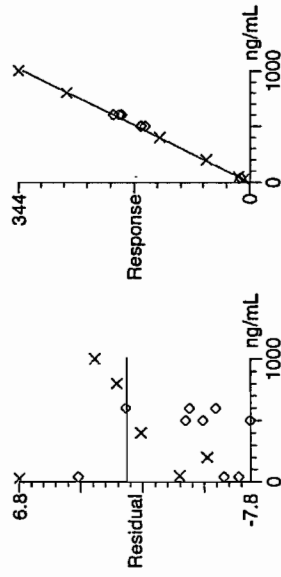
Compound name: 4-Amino-26-dinitrotoluene

Response Factor: 0.337763

RRF SD: 0.014254, % Relative SD: 4.22013

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



# Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 5 of 9

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

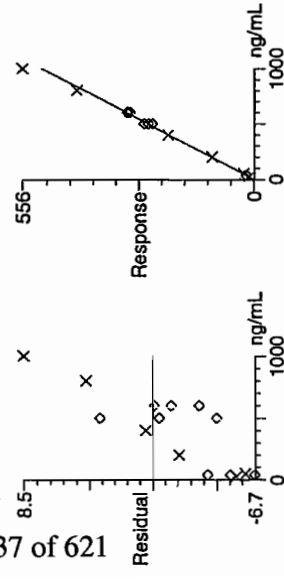
Compound name: 2-Amino-46-dinitrotoluene

Response Factor: 0.512197

RRF SD: 0.0291218, % Relative SD: 5.68567

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



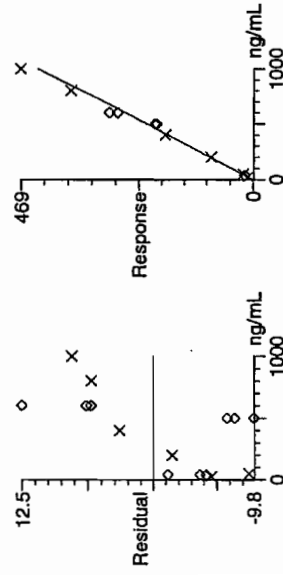
Compound name: 246-Trinitrotoluene

Response Factor: 0.435033

RRF SD: 0.0293746, % Relative SD: 6.75226

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



Quantify Calibration Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 6 of 9

Dataset: C:\MASSLYN\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

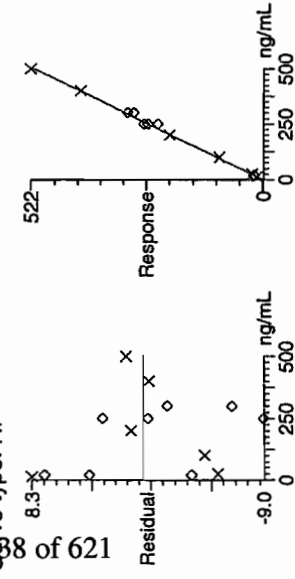
Compound name: 34-dinitrotoluene

Response Factor: 1.03113

RRF SD: 0.0513762, % Relative SD: 4.98253

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



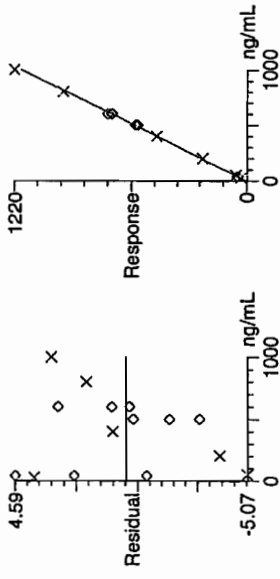
Compound name: 26-dinitrotoluene

Response Factor: 1.18354

RRF SD: 0.0435946, % Relative SD: 3.68342

Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



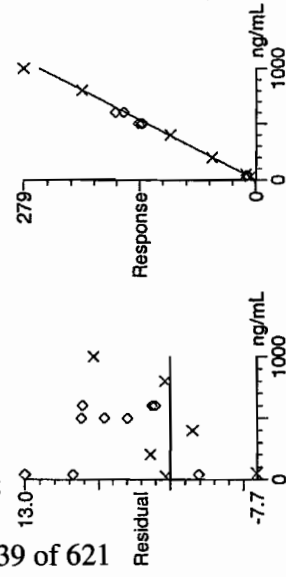
# Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

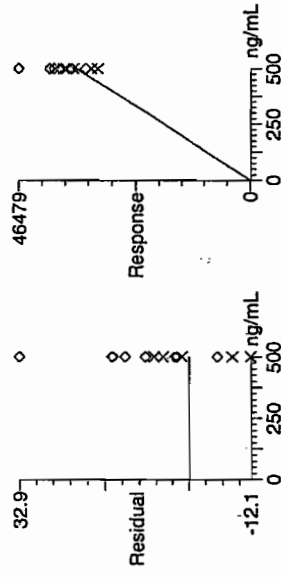
Printed: Tue Apr 13 11:14:26 2010, Page 7 of 9

Dataset: C:\MASSLYN\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 24-dinitrotoluene  
Response Factor: 0.261004  
RF SD: 0.0124888, % Relative SD: 4.7849  
Response type: Internal Std (Ref 14), Area \* (IS Conc. / IS Area)  
Curve type: RF



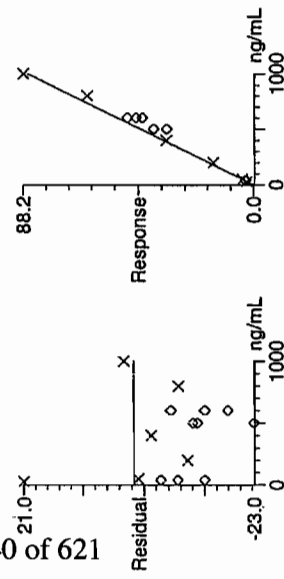
Compound name: 26-dinitrotoluene-d3  
Response Factor: 69.9664  
RF SD: 5.81467, % Relative SD: 8.31066  
Response type: External Std, Area  
Curve type: RF



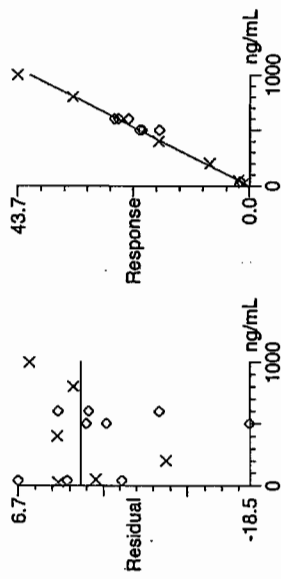
Quantify Calibration Report  
GEL Laboratories, LLC / Analyst : Michael A. Penny

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 2-Nitrotoluene  
Response Factor: 0.0865882  
RRF SD: 0.00974436, % Relative SD: 11.2537  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



Compound name: 4-Nitrotoluene  
Response Factor: 0.0414794  
RRF SD: 0.00215463, % Relative SD: 5.19445  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF





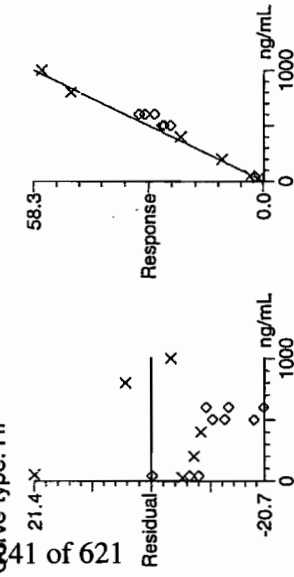
Quantify Calibration Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

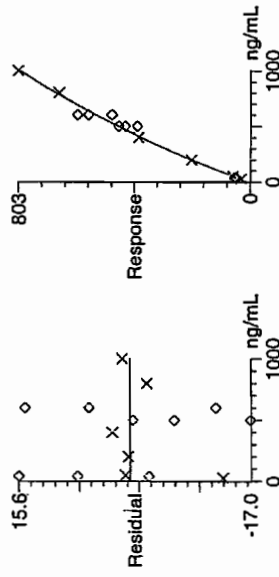
Printed: Tue Apr 13 11:14:26 2010, Page 9 of 9

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Compound name: 3-Nitrotoluene  
Response Factor: 0.058302  
RF SD: 0.00673426, % Relative SD: 11.5507  
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF



Compound name: PETN  
Coefficient of Determination: 0.999447  
Calibration curve:  $-0.000220026 \cdot x^2 + 1.0065 \cdot x + 9.6373$   
Response type: Internal Std ( Ref 14 ), Area \* ( IS Conc. / IS Area )  
Curve type: 2nd Order, Origin: Exclude, Weighting: Null, Axis trans: None



## Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1908Lab Code: GELGEL Sample ID: WXXICVGEL Data File EXP0412010aAnalysis Date: 12-APR-10 20:06LCMSMS ID: 903Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	593.013	99	
1,3-Dinitrobenzene-d4	500	528.009	106	
2,4,6-Trinitrotoluene	600	674.734	112	
2,4-Dinitrotoluene	600	608.204	101	
2,6-Dinitrotoluene	600	599.148	100	
2,6-Dinitrotoluene-d3	500	574.331	115	
2-Amino-4,6-dinitrotoluene	600	592.511	99	
3,4-Dinitrotoluene	300	280.228	93	
4-Amino-2,6-dinitrotoluene	600	600.345	100	
HMX	600	642.971	107	
Nitrobenzene	600	610.074	102	
PETN	600	527.609	88	
RDX	600	753.124	126	*
Tetryl	600	604.19	101	
m-Dinitrobenzene	600	606.979	101	
m-Nitrotoluene	600	475.553	79	*
o-Nitrotoluene	600	492.414	82	
p-Nitrotoluene	600	547.628	91	

## Recovery Limits:

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412010a

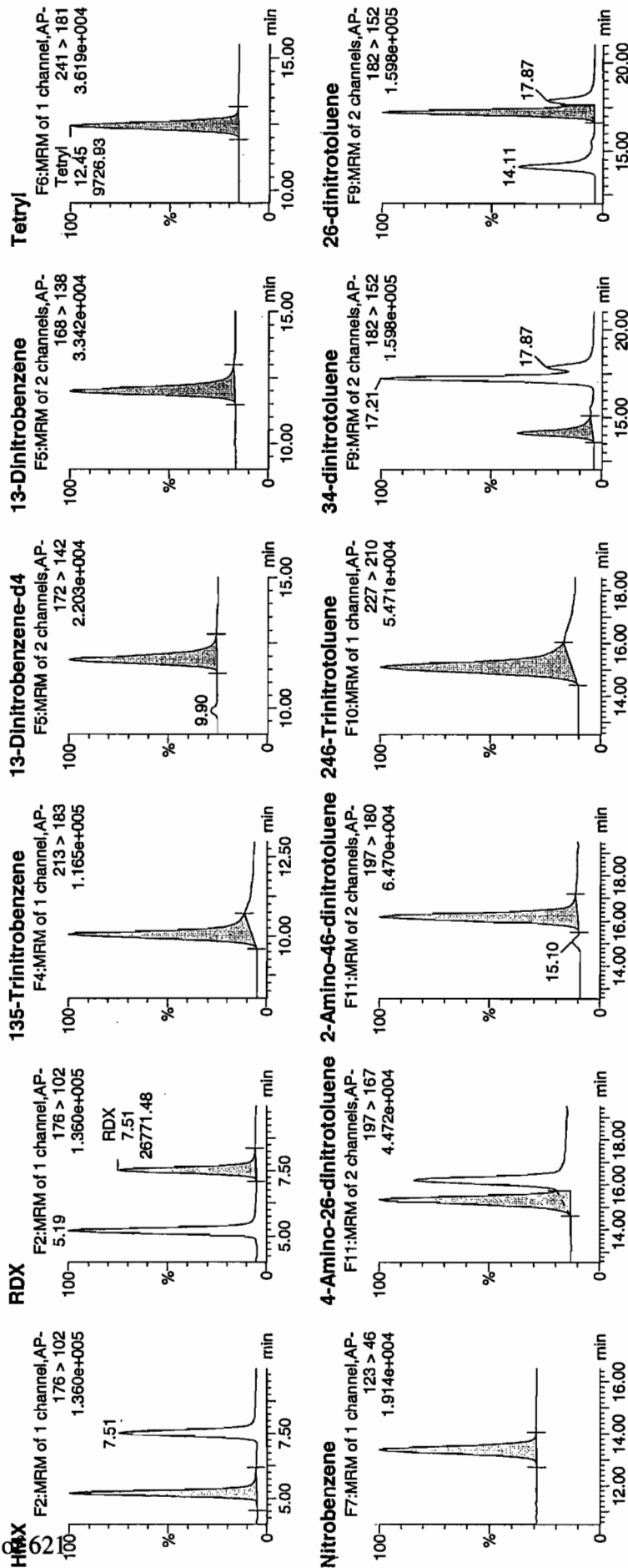
Date: 12-Apr-2010

Time: 20:06:00

ID: WXX100412-07ICV

Vol: 1:1,B

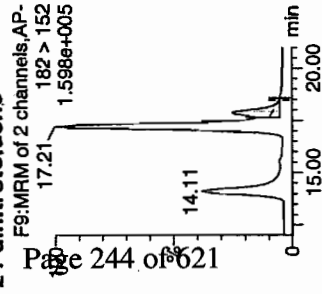
u13100



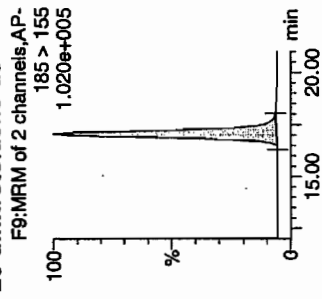
4/13/10

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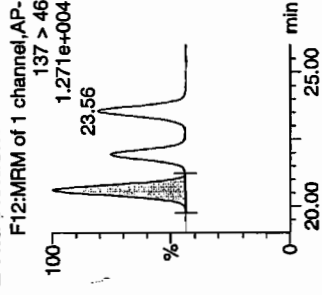
## 24-dinitrotoluene



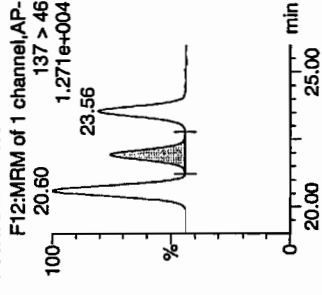
## 26-dinitrotoluene-d3



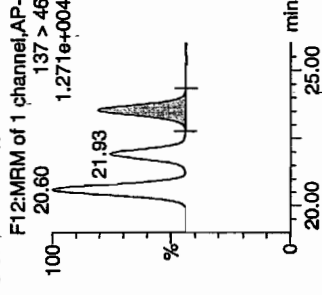
## 2-Nitrotoluene



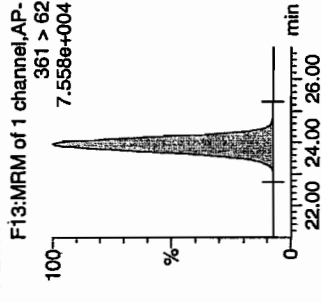
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	RT	Area	IS Area	Abs Resp	Response	Flags	Mod Date	Mod Time	Conc (ng/ml)	% Rec	% Dev	SN
WXX100412-07ICV	HMX	176 > 102	5.19	33847.480	6209.775	33847.480	2725.339	bb			642.9709	107.2	7.2	3326.4
WXX100412-07ICV	RDX	176 > 102	7.51	26771.480	6209.775	26771.480	2155.592	bb			753.1238	125.5	25.5	2433.7
WXX100412-07ICV	135-Trinitrobenzene	213 > 183	10.03	31838.539	6209.775	31838.539	2563.582	bb			593.0128	98.8	-1.2	1379.9
WXX100412-07ICV	13-Dinitrobenzene-d4	172 > 142	11.86	6209.775		6209.775	6209.775	bb			528.0094	105.6	5.6	836.0
WXX100412-07ICV	13-Dinitrobenzene	168 > 138	11.97	10079.378	6209.775	10079.378	811.574	bb			606.9793	101.2	1.2	1025.2
WXX100412-07ICV	Tetryl	241 > 181	12.45	9726.927	6209.775	9726.927	783.195	bb			604.1896	100.7	0.7	1063.3
WXX100412-07ICV	Nitrobenzene	123 > 46	13.39	4752.931	6209.775	4752.931	382.698	bb			610.0743	101.7	1.7	361.4
WXX100412-07ICV	4-Amino-26-dinitrotoluene	197 > 167	15.31	16296.482	40183.859	16296.482	202.774	MM	13-Apr-10	11:01:46	600.3448	100.1	0.1	397.8
WXX100412-07ICV	2-Amino-46-dinitrotoluene	197 > 180	16.18	24390.191	40183.859	24390.191	303.482	bb			592.5107	98.8	-1.2	968.8
WXX100412-07ICV	246-Trinitrotoluene	227 > 210	15.09	23590.451	40183.859	23590.451	293.531	bb			674.7339	112.5	12.5	1164.7
WXX100412-07ICV	34-dinitrotoluene	182 > 152	14.11	23222.357	40183.859	23222.357	288.951	bb			280.2284	93.4	-6.6	253.4
WXX100412-07ICV	26-dinitrotoluene	182 > 152	17.21	56989.934	40183.859	56989.934	709.115	MM	13-Apr-10	11:06:55	599.1482	99.9	-0.1	713.0
WXX100412-07ICV	24-dinitrotoluene	182 > 152	17.87	12757.857	40183.859	12757.857	158.744	MM	13-Apr-10	11:09:56	608.2038	101.4	1.4	150.4
WXX100412-07ICV	26-dinitrotoluene-d3	185 > 155	17.06	40183.859		40183.859	40183.859	bb			574.3312	114.9	14.9	5693.5
WXX100412-07ICV	2-Nitrotoluene	137 > 46	20.60	3426.659	40183.859	3426.659	42.637	bb			492.4141	82.1	-17.9	1017.5
WXX100412-07ICV	4-Nitrotoluene	137 > 46	21.93	1825.573	40183.859	1825.573	22.715	bb			547.6276	91.3	-8.7	574.9
WXX100412-07ICV	3-Nitrotoluene	137 > 46	23.56	2228.251	40183.859	2228.251	27.726	bb			475.5529	79.3	-20.7	669.8
WXX100412-07ICV	PETN	361 > 62	23.94	38530.590	40183.859	38530.590	479.429	bb			527.6090	87.9	-12.1	6724.3

# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 04/12/10  
 Time of Injection: 2006  
 Standard Number: WXX100412-07ICV  
 Data File: EXP0412010a

HMX	107.2
RDX	125.5
135-TNB	98.8
13-DNB	101.2
Tetryl	100.7
Nitrobenzene	101.7
4A-26-DNT	100.1
2A-46-DNT	98.8
246-TNT	112.5
34-DNT(surr)	93.4
26-DNT	99.9
24-DNT	101.4
2-NT	82.1
4-NT	91.3
3-NT	79.3
PETN	87.9

*Handwritten:* 100.7  
4/13/10

Total 1581.8

*Handwritten:* 04/14/10

Average

98.9

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:

10-1908

Lab Code: GEL

Run Date:

10-MAR-10.12-APR-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	25	Ave RF	RSD	Q
Data File:		EXS03100003.W	EXS03100004.W	EXS03100005.W	EXS03100006.W	EXS03100007.W	EXS03100009.W			
Parmname										
2,4-Diamino-6-nitrotoluene		1090	1070	1100	1030	1110	938	1056.333	6.07	
2,6-Diamino-4-nitrotoluene		1620	1550	1540	1570	1520	1380	1530.000	5.41	

Q column used to flag RSD values outside of Limit (&gt;20%)

\* Values outside of QC Limit

## Explosives Initial Calibration

Lab Name: GEL Laboratories LLC

GEL Job No: 10-1908

Lab Code: GEL

Run Date: 10-MAR-10.12-APR-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	25	X	X^2	Intercept	COD	Q
Data File:	EXS03100003.wiff	EXS03100004.wiff	EXS03100005.wiff	EXS03100006.wiff	EXS03100007.wiff	EXS03100009.wiff					
Paraname:											
3,4-Dinitrotoluene	269000	536000	1300000	2570000	3200000	9020000	22800	10300	-1.34	1	
3,5-Dinitroaniline	414000	823000	2000000	3900000	4810000	12200000	189000	6930	-.459	.9986	
TATB	64800	130000	329000	728000	1060000	2830000	-15900	1460	-.021	.9999	
tris(o-cresyl) phosphate	689000	1380000	3340000	6340000	9120000	20300000	65000	13300	-1.59	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 (&lt;0.990)

\* Values outside of QC Limit

031010ICAL

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

Fit	Quadratic	Weighting	None	Iterate No
a0	-1.59e+004			
a1	1.46e+003			
a2	-0.0212			

Correlation coefficient 0.9999  
 Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	1.89e+005			
a1	6.93e+003			
a2	-0.459			

Correlation coefficient 0.9986  
 Use Area

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

Fit	Quadratic	Weighting	None	Iterate No
a0	2.28e+004			
a1	1.03e+004			
a2	-1.34			

Correlation coefficient 1.0000  
 Use Area

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

Fit	Mean Response Factor	Weighting	None	Iterate No
Factor	1.53e+003			
Standard deviation	82.8			
%RSD	5.41			

Use Area

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

*Jan 3/13/10*

*4/11/10 03/15/10*



031010ICAL  
None Iterate No

Weighting

Mean Response Factor

Fit

Factor 1.06e+003

Standard deviation 64.2

%RSD 6.07

Use Area

Peak Name: tris(o-crèsy1) phosphate

No Internal Standard

Q1/Q3 Masses: 369.15/91.00 amu

None Iterate No

Weighting

Fit

Quadratic

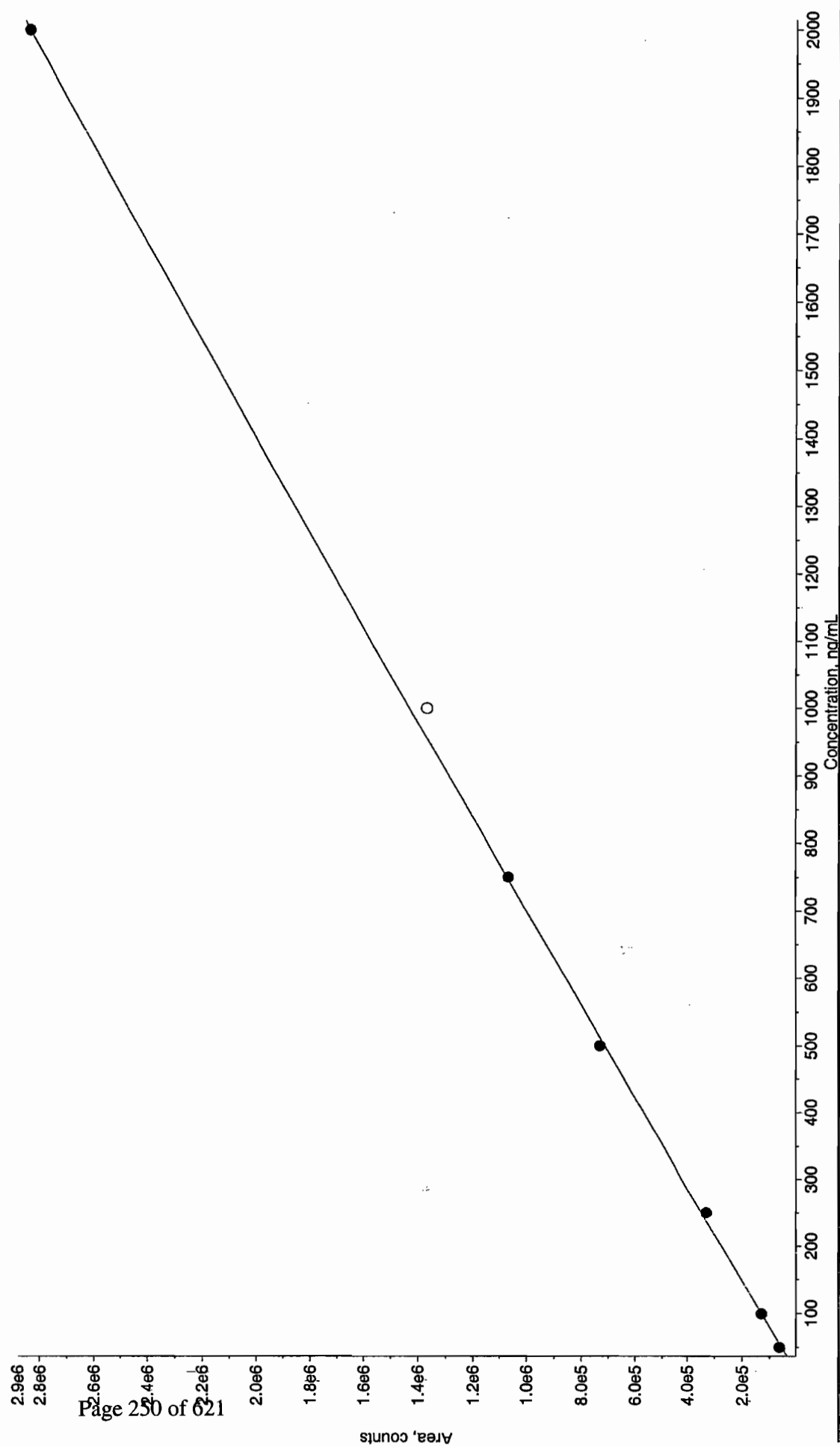
a0 6.5e+004

a1 1.33e+004

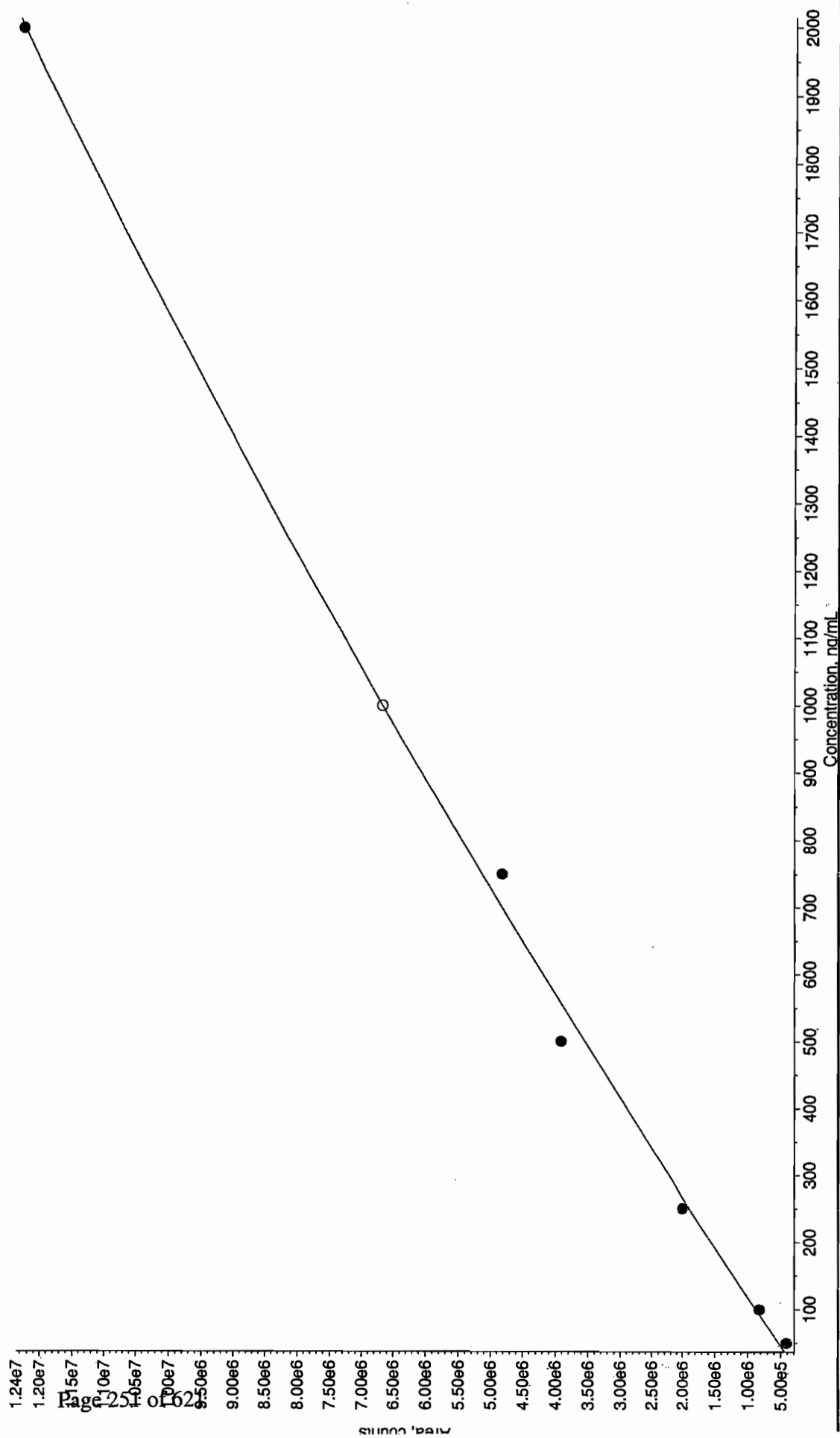
a2 -1.59

Correlation coefficient 1.0000

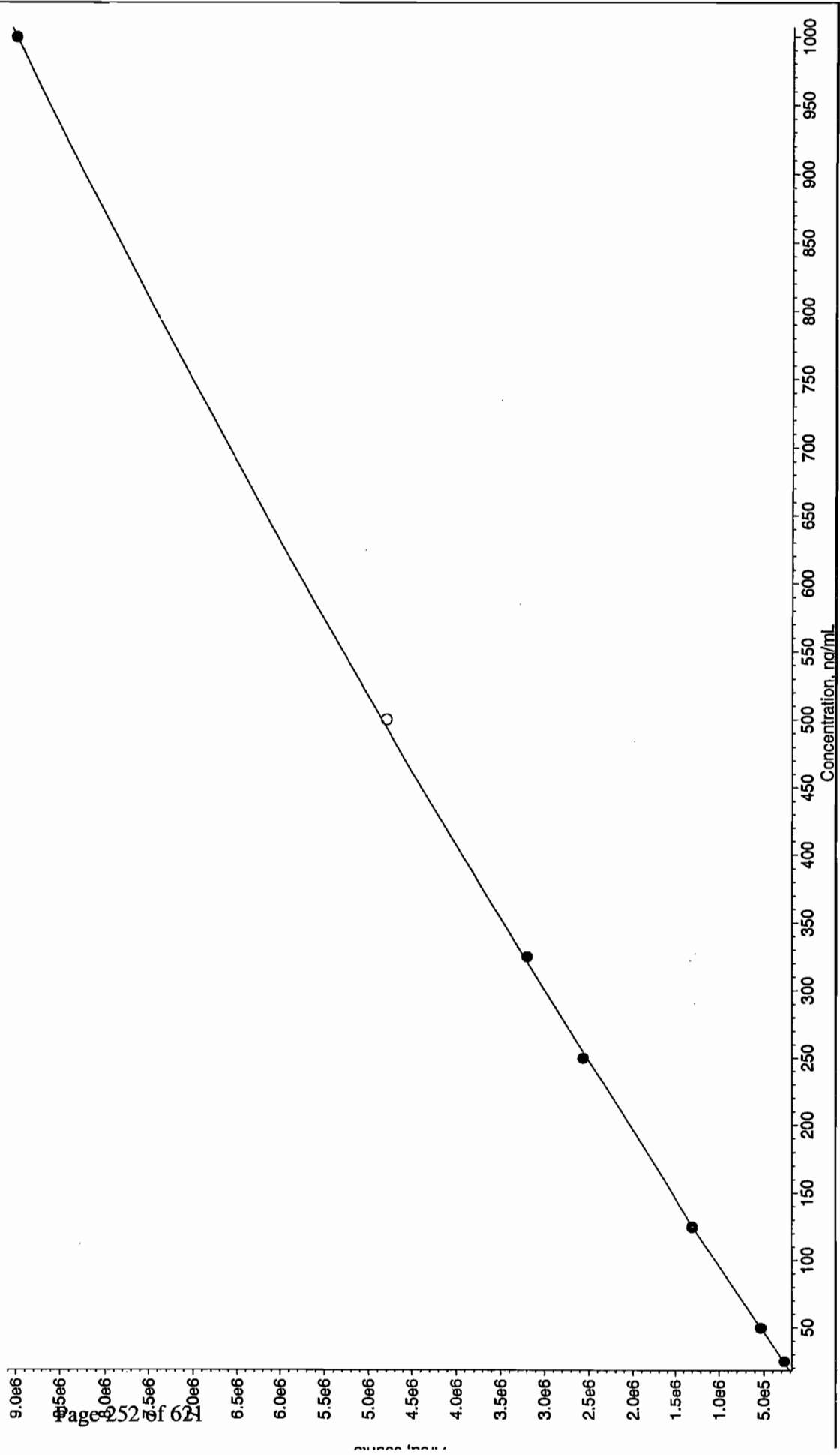
Use Area



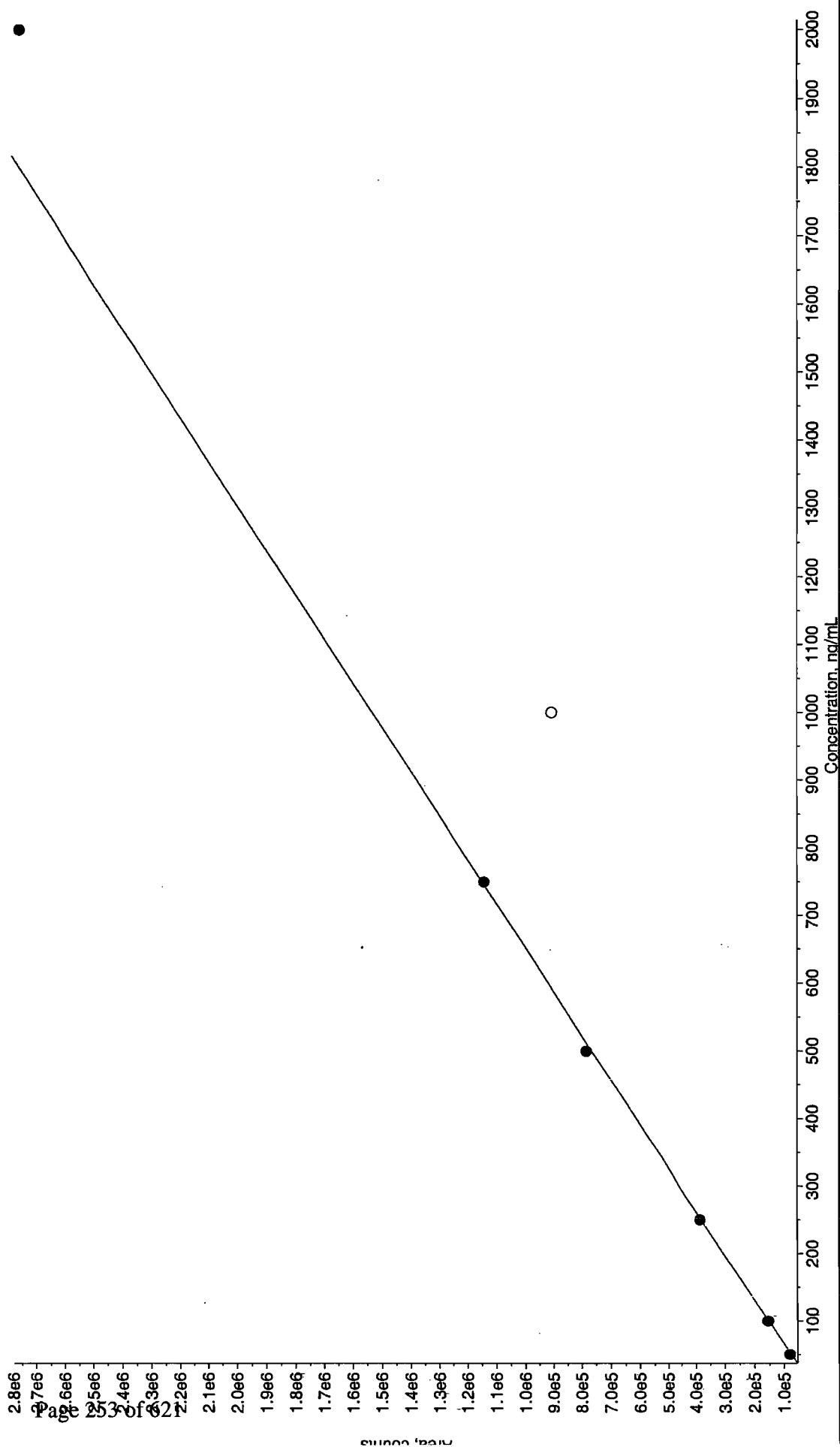
031010.rdb (35-Dinitroaniline): "Quadratic" Regression ("No" weighting):  $y = -0.459 x^2 + 6.93e+003 x + 1.89e+005$  ( $r = 0.9986$ )



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

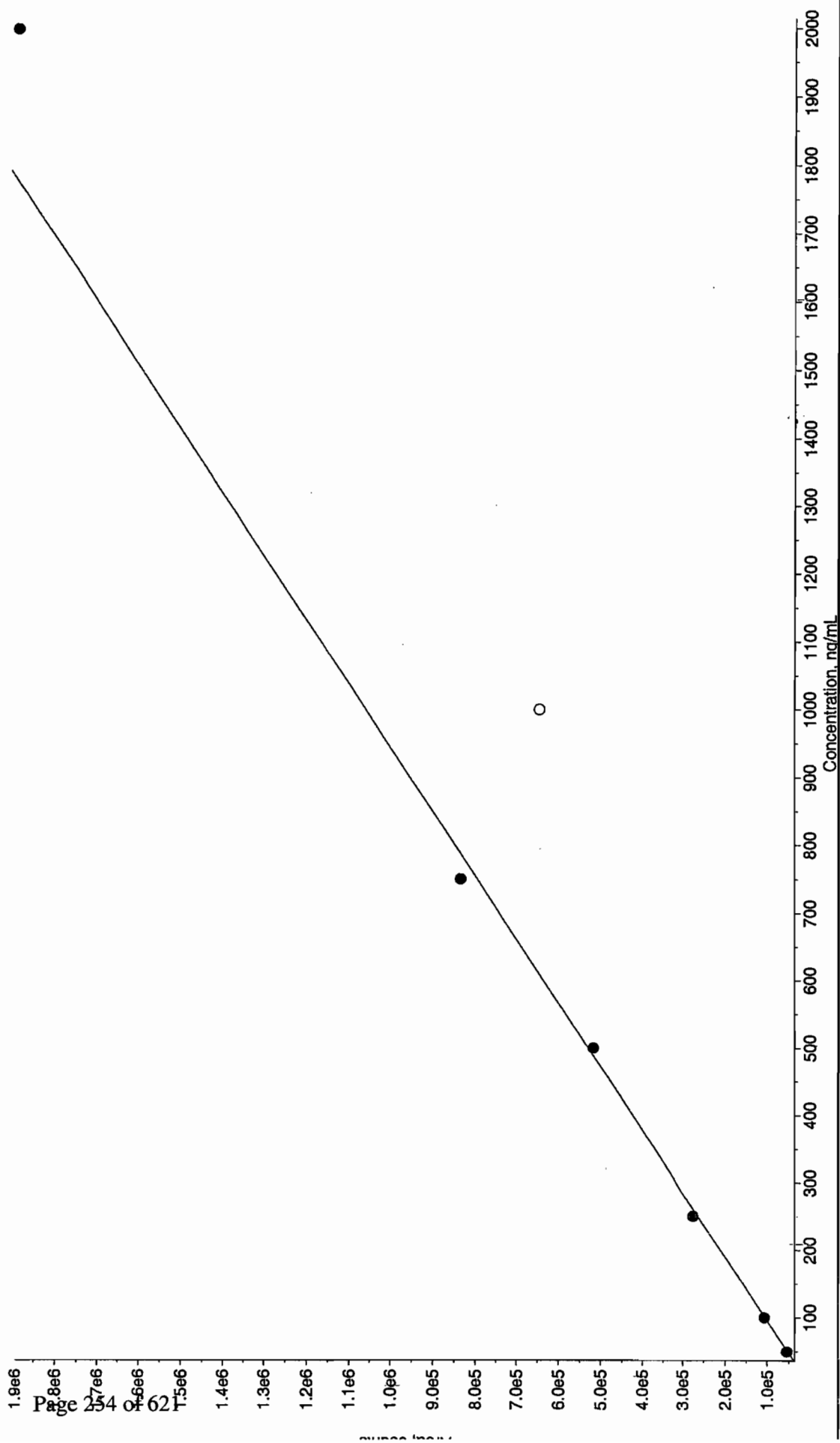


031010.rdb (26-Diamino-4-nitrotoluene): "Mean Response Factor" Regression ("No" weighting):  $y = 1.53e+003 x$  (std. dev. = 82.8)

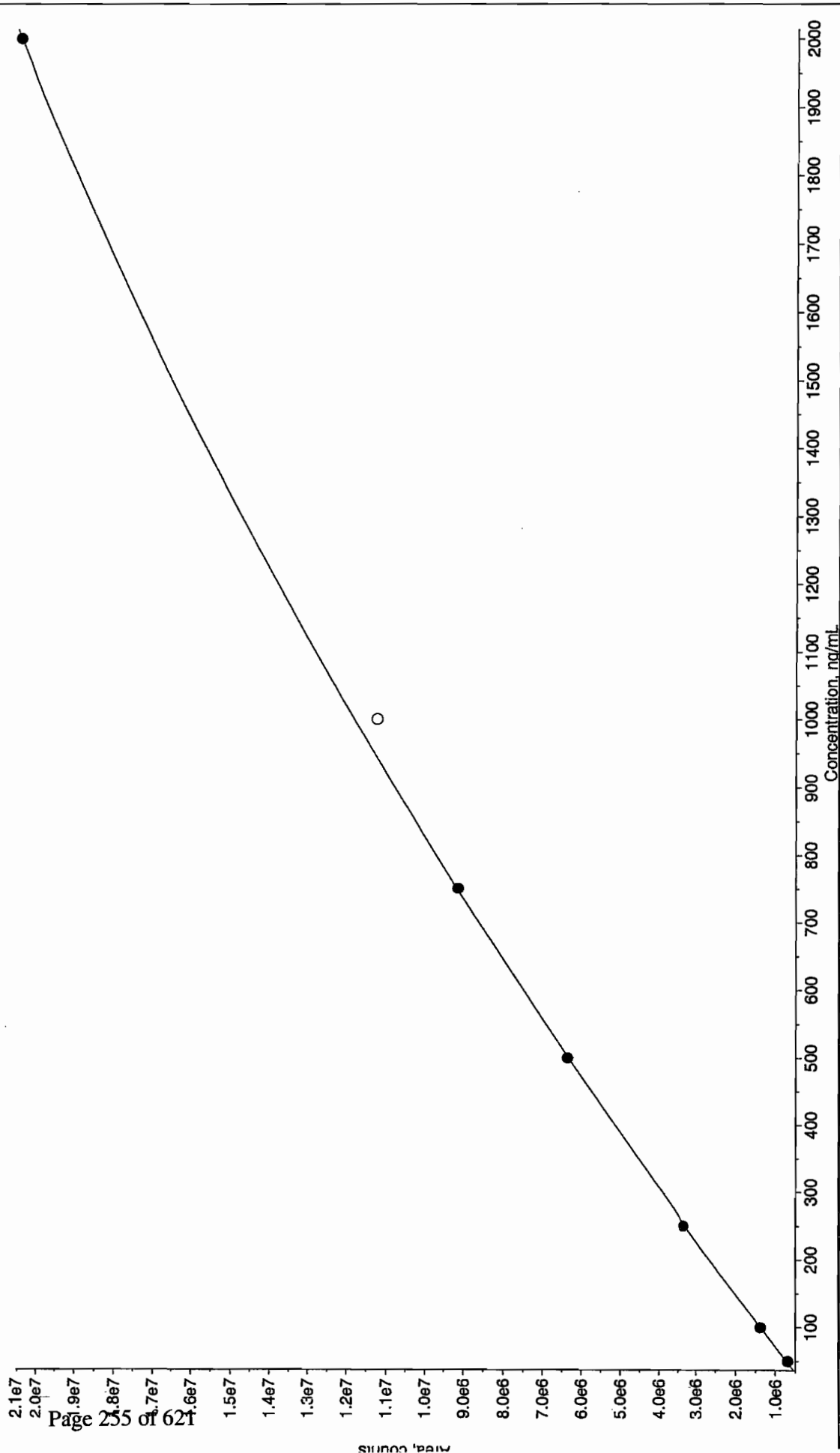


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

031010.rdb (24-Diamino-6-nitrotoluene): "Mean Response Factor" Regression ("No" weighting):  $y = 1.06e+003 \times (\text{std. dev.} = 64.2)$



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



## Explosives Initial Calibration Verification

Lab Name: GEL Laboratories LLCGEL Job No (SDG): 10-1908Lab Code: GELGEL Sample ID: WXXICVGEL Data File EXS03100011.wiffAnalysis Date: 10-MAR-10 18:08LCMSMS ID: 1358Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	483	97	
2,4-Diamino-6-nitrotoluene	500	506	101	
2,6-Diamino-4-nitrotoluene	500	502	100	
3,4-Dinitrotoluene	250	243	97	
3,5-Dinitroaniline	500	527	105	
TATB	500	461	92	

## Recovery Limits:

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

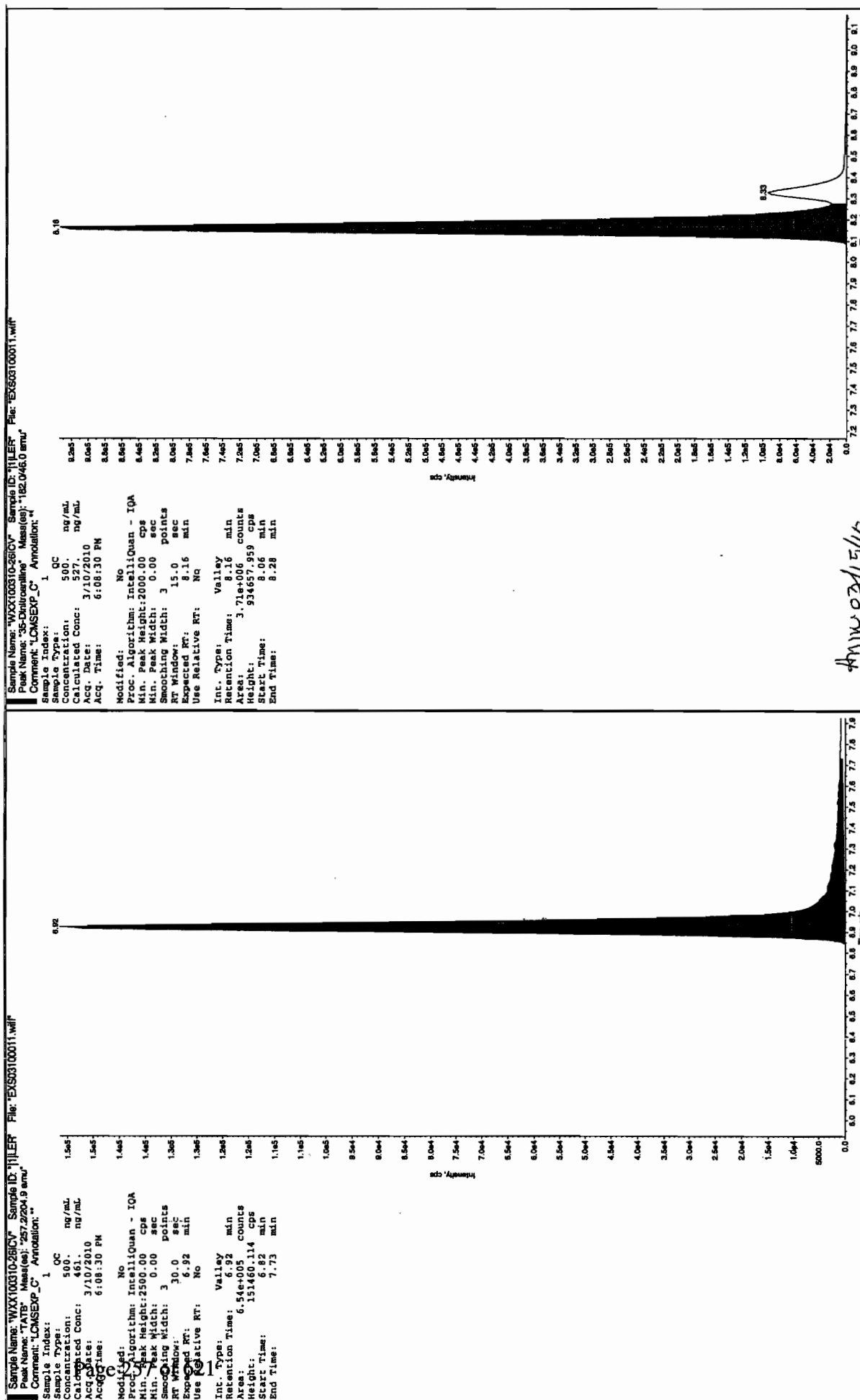
Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



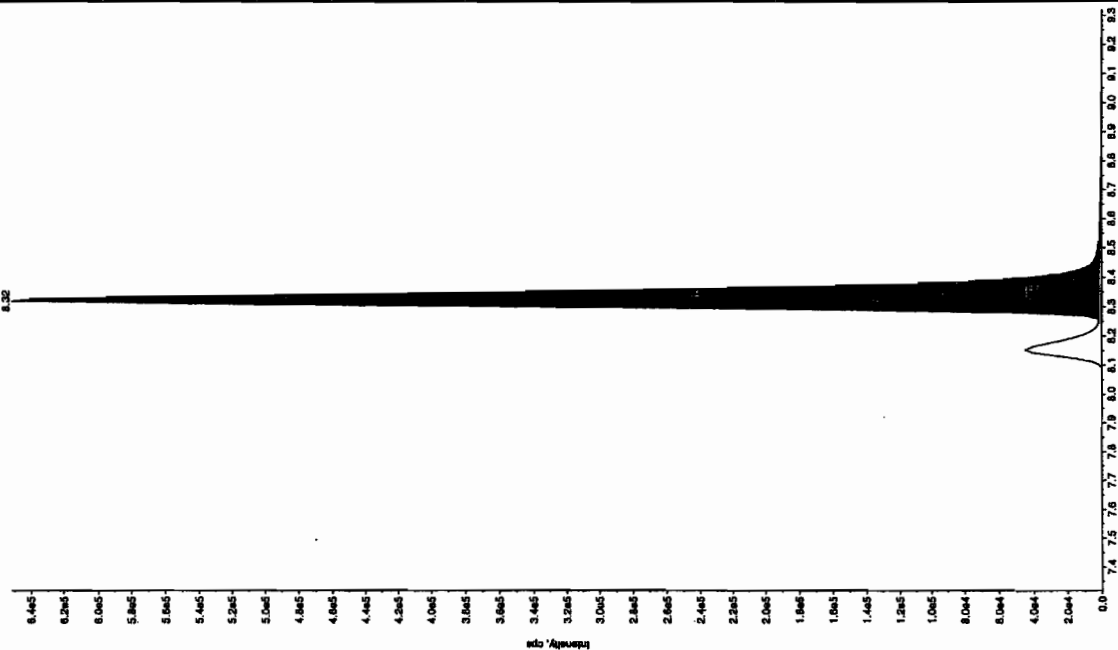
Lax 3/13/10



Amw 03/15/10

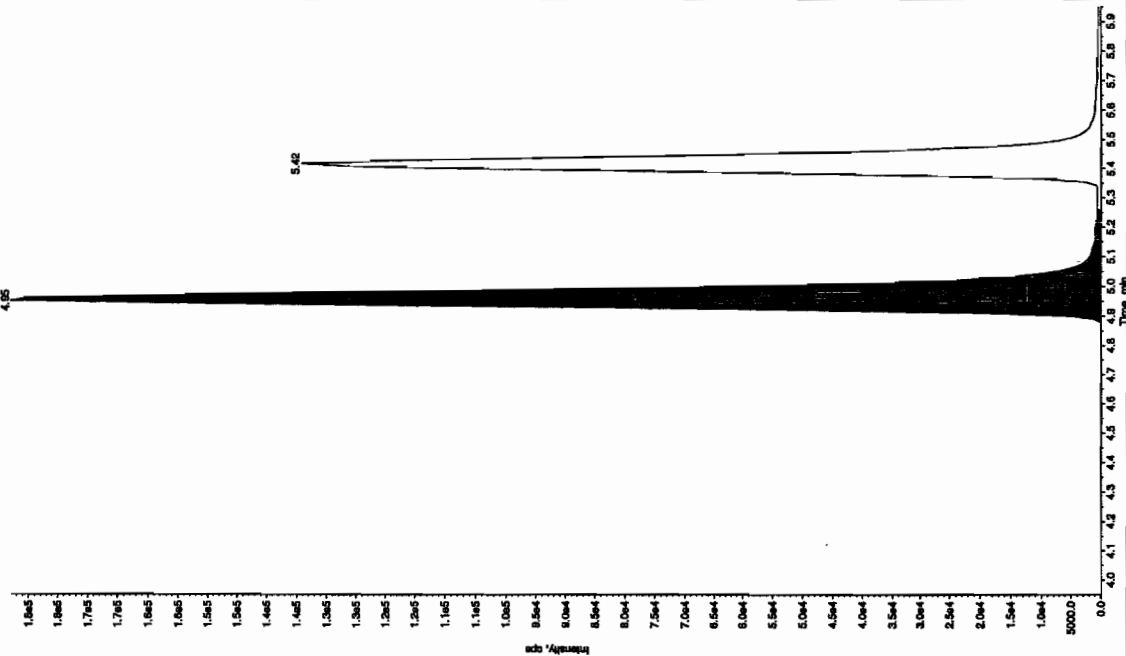
Sample Name: "WXX100310-26CV" Sample ID: "JLER" File: "EXS03100011.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "162.17151.9 amu"  
 Comment: "LCMS/EXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250 ng/mL  
 Calculated Conc: 250 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 6:08:30 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: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.32 min  
 Area: 2.46e+005 counts  
 Height: 650270996 cps  
 Start Time: 8.23 min  
 End Time: 8.69 min



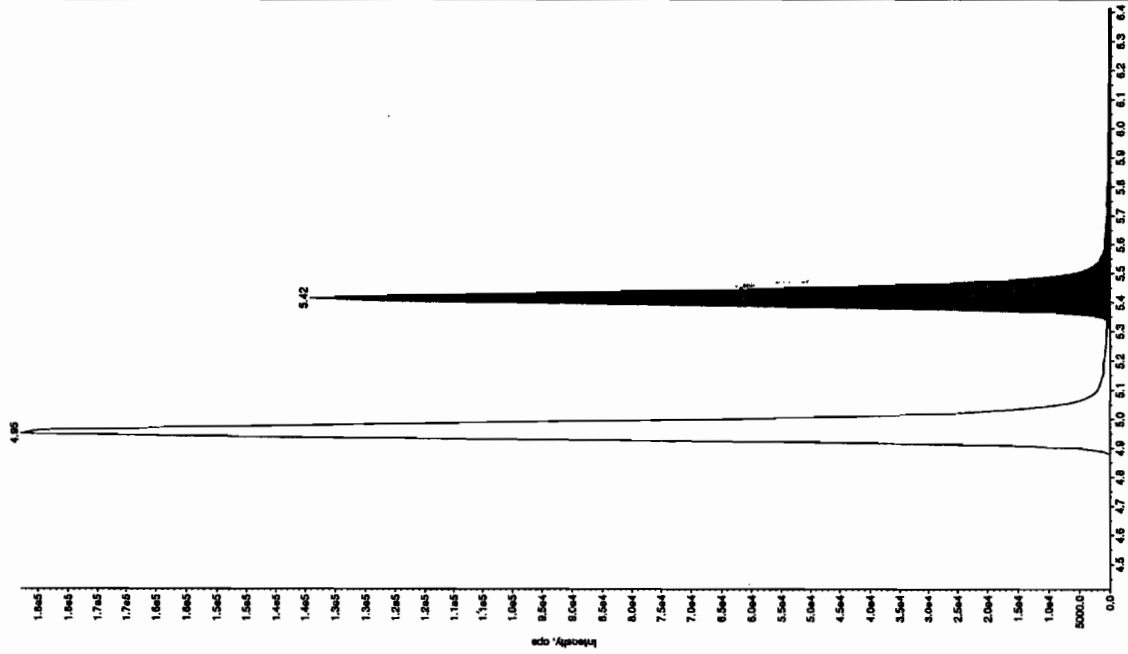
Sample Name: "WXX100310-28CV" Sample ID: "JLER" File: "EXS03100011.wif"  
 Peak Name: "34-Dinitrobenzene" Mass(es): "168.0463.0 amu"  
 Comment: "LCMS/EXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500 ng/mL  
 Calculated Conc: 500 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 6:08:30 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.95 min  
 Area: 7.68e+005 counts  
 Height: 182806763 cps  
 Start Time: 4.87 min  
 End Time: 5.26 min



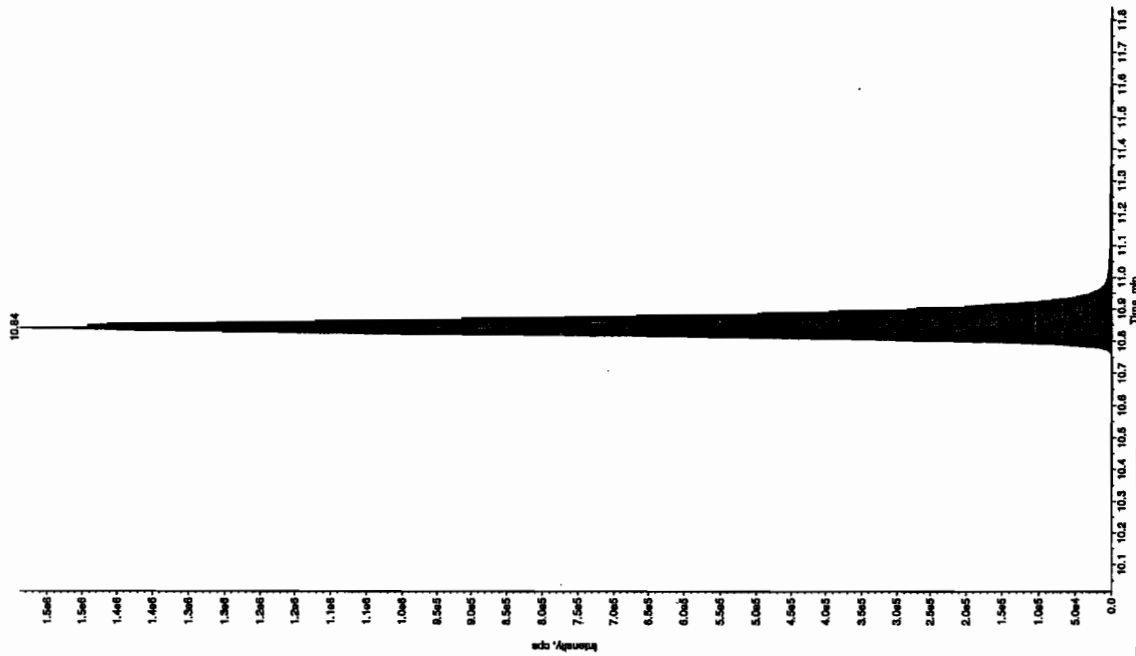
Sample Name: "WXX100310-281CV" Sample ID: "11LEP" File: "EXS03100011.wif"  
Peak Name: "24-Chloro-6-nitrophenol" Mass(es): "166.043.0 amu"  
Comment: "LCMSERP\_G" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500 ng/mL  
Calculated Conc: 506 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 6:08:30 PM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 350.00 cps  
Min. Peak Width: 9.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.42 min  
Area: 33540.285 counts  
Height: 134036.285 cps  
Start Time: 5.31 min  
End Time: 5.12 min



Sample Name: "WXX100310-281CV" Sample ID: "11LEP" File: "EXS03100011.wif"  
Peak Name: "24-Chloro-6-nitrophenol" Mass(es): "166.161.0 amu"  
Comment: "LCMSERP\_G" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500 ng/mL  
Calculated Conc: 483 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 6:08:30 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 612410.8 counts  
Height: 153728.862 cps  
Start Time: 10.7 min  
End Time: 11.1 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXP0412012a

**Analysis Date:** 12-APR-10 21:04

**LCMSMS ID:** 903

**Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	42.014	105	
1,3-Dinitrobenzene-d4	500	533.484	107	
2,4,6-Trinitrotoluene	40	37.92	95	
2,4-Dinitrotoluene	40	39.009	98	
2,6-Dinitrotoluene	40	41.835	105	
2,6-Dinitrotoluene-d3	500	543.299	109	
2-Amino-4,6-dinitrotoluene	40	37.957	95	
3,4-Dinitrotoluene	20	20.822	104	
4-Amino-2,6-dinitrotoluene	40	41.22	103	
HMX	40	40.936	102	
Nitrobenzene	40	40.412	101	
PETN	40	38.904	97	
RDX	40	42.279	106	
Tetryl	40	38.735	97	
m-Dinitrobenzene	40	40.013	100	
m-Nitrotoluene	40	37.251	93	
o-Nitrotoluene	40	34.615	87	
p-Nitrotoluene	40	40.573	101	

**Recovery Limits:**

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412012a

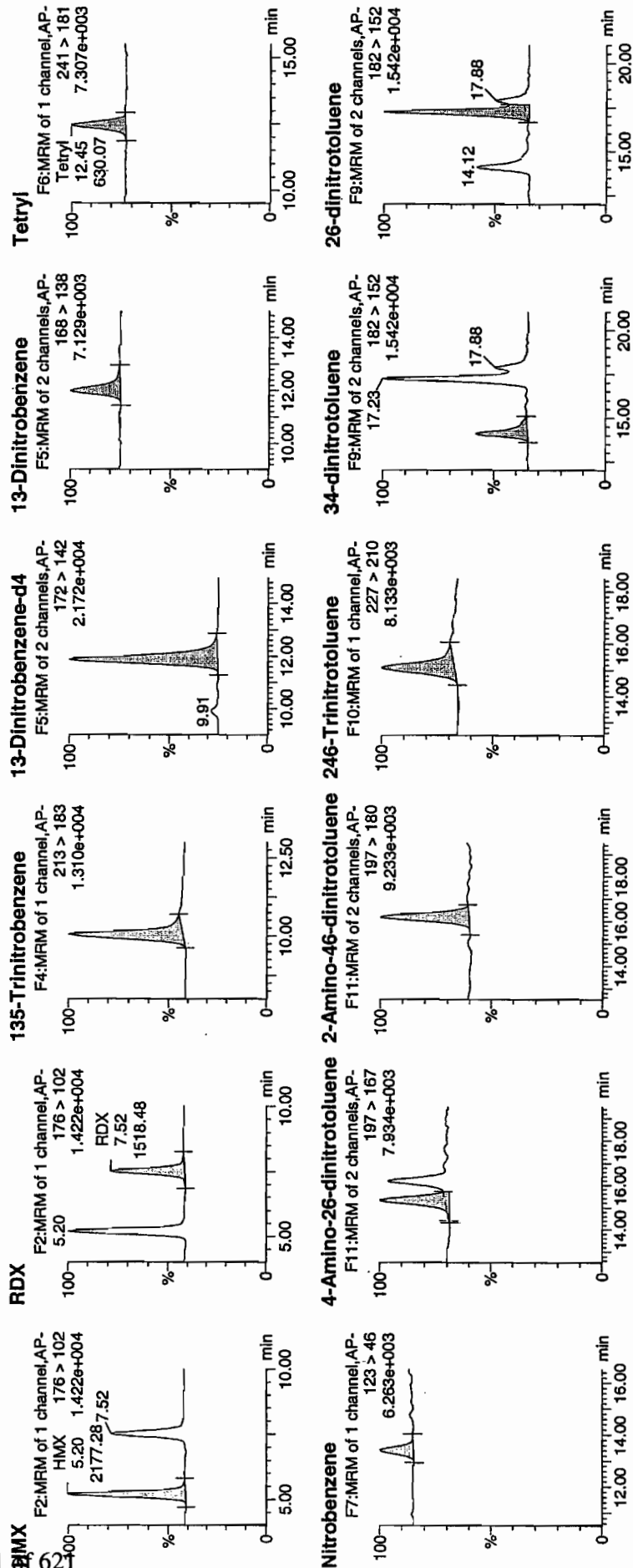
Date: 12-Apr-2010

Time: 21:04:58

AP: WXX100412-08CRI

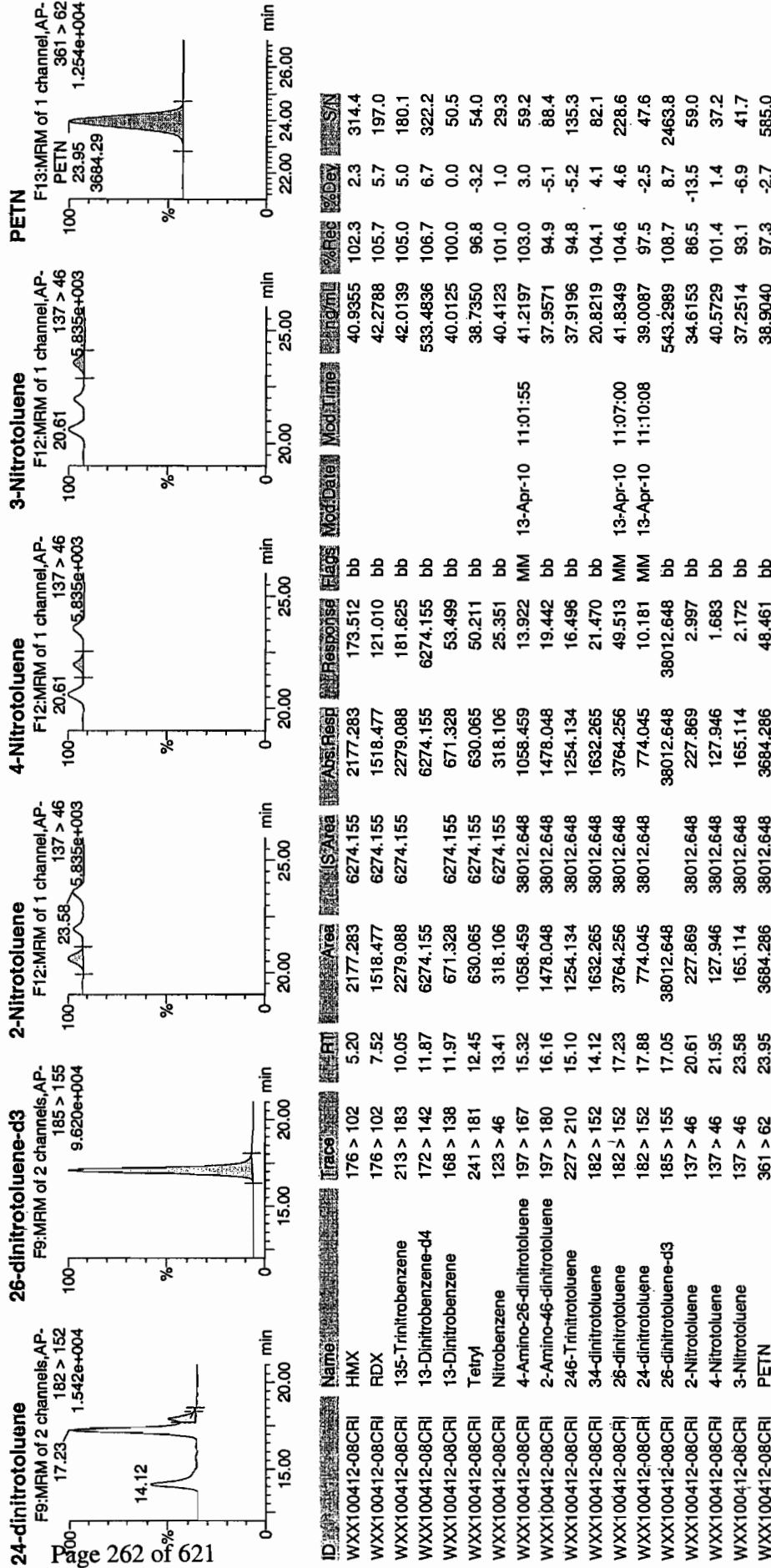
Mix: 1:1,C

NOTE  
4/13/10



HW 4/14/10

Dataset: C:\MASSLYNX\New\_Exp\PRO041210expA.qld, Time: Tue Apr 13 11:12:22 2010



# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 04/12/10  
 Time of Injection 2104  
 Standard Number WXX100412-08CRI  
 Data File EXP0412012a

HMX	102.3
RDX	105.7
135-TNB	105.0
13-DNB	100.0
Tetryl	96.8
Nitrobenzene	101.0
4A-26-DNT	103.0
2A-46-DNT	94.9
246-TNT	94.8
34-DNT(surr)	104.1
26-DNT	104.6
24-DNT	97.5
2-NT	86.5
4-NT	101.4
3-NT	93.1
PETN	97.3

*mtt  
4/12/10*

Total 1588.0

*HNHC 04/14/10*

Average 99.3

ICV Limits 85-115%
CRI Limits 70-130%
CCV Limits 85-115%

No single analyte > +/- 60%

**7A**  
**Explosives Continuing Calibration Verification**

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1908

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXP0412023a

Analysis Date: 13-APR-10 02:29

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	600	557.713	93	
1,3-Dinitrobenzene-d4	500	483.478	97	
2,4,6-Trinitrotoluene	600	638.191	106	
2,4-Dinitrotoluene	600	647.757	108	
2,6-Dinitrotoluene	600	603.464	101	
2,6-Dinitrotoluene-d3	500	472.429	94	
2-Amino-4,6-dinitrotoluene	600	581.719	97	
3,4-Dinitrotoluene	300	294.567	98	
4-Amino-2,6-dinitrotoluene	600	565.953	94	
HMX	600	591.074	99	
Nitrobenzene	600	587.411	98	
PETN	600	688.871	115	
RDX	600	698.421	116	
Tetryl	600	569.67	95	
m-Dinitrobenzene	600	606.197	101	
m-Nitrotoluene	600	540.313	90	
o-Nitrotoluene	600	558.159	93	
p-Nitrotoluene	600	614.491	102	

**Recovery Limits:**

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412023a

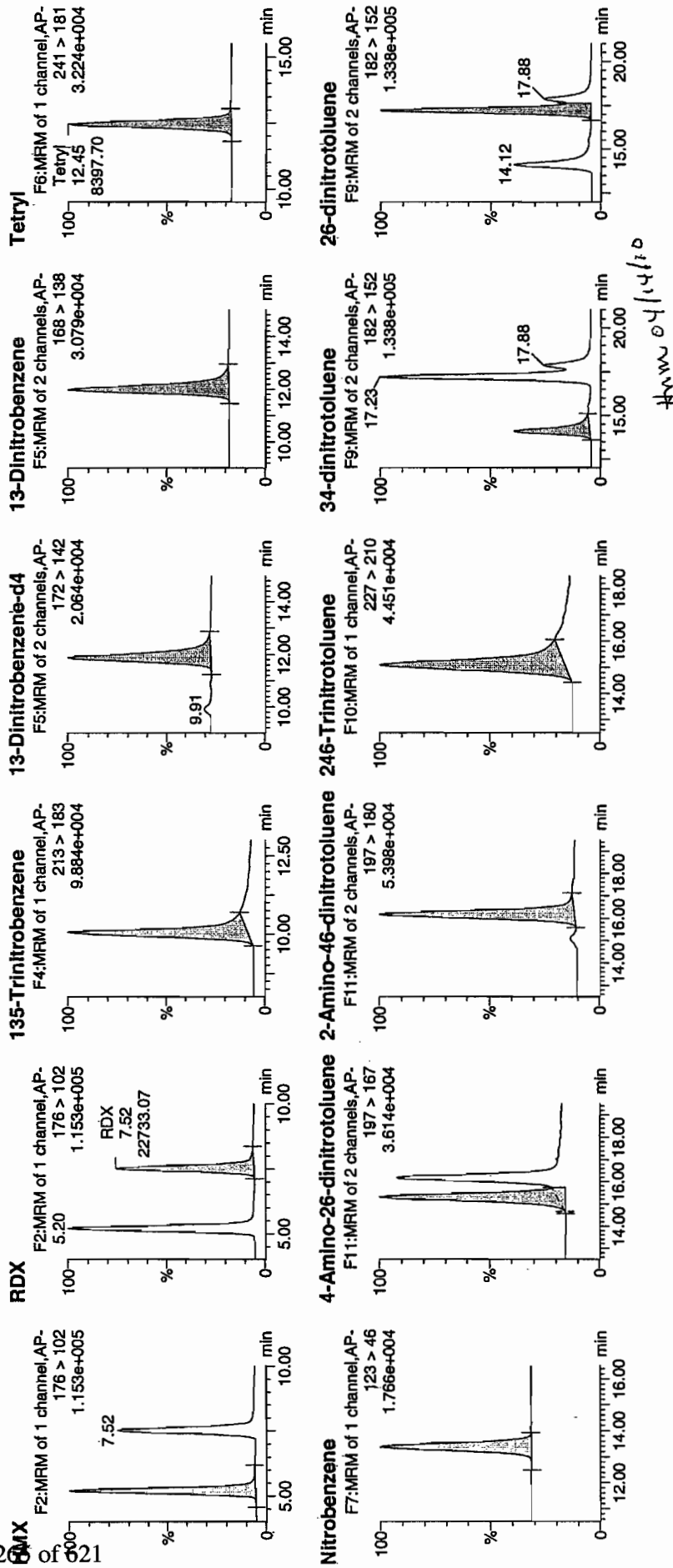
Date: 13-Apr-2010

Time: 02:29:16

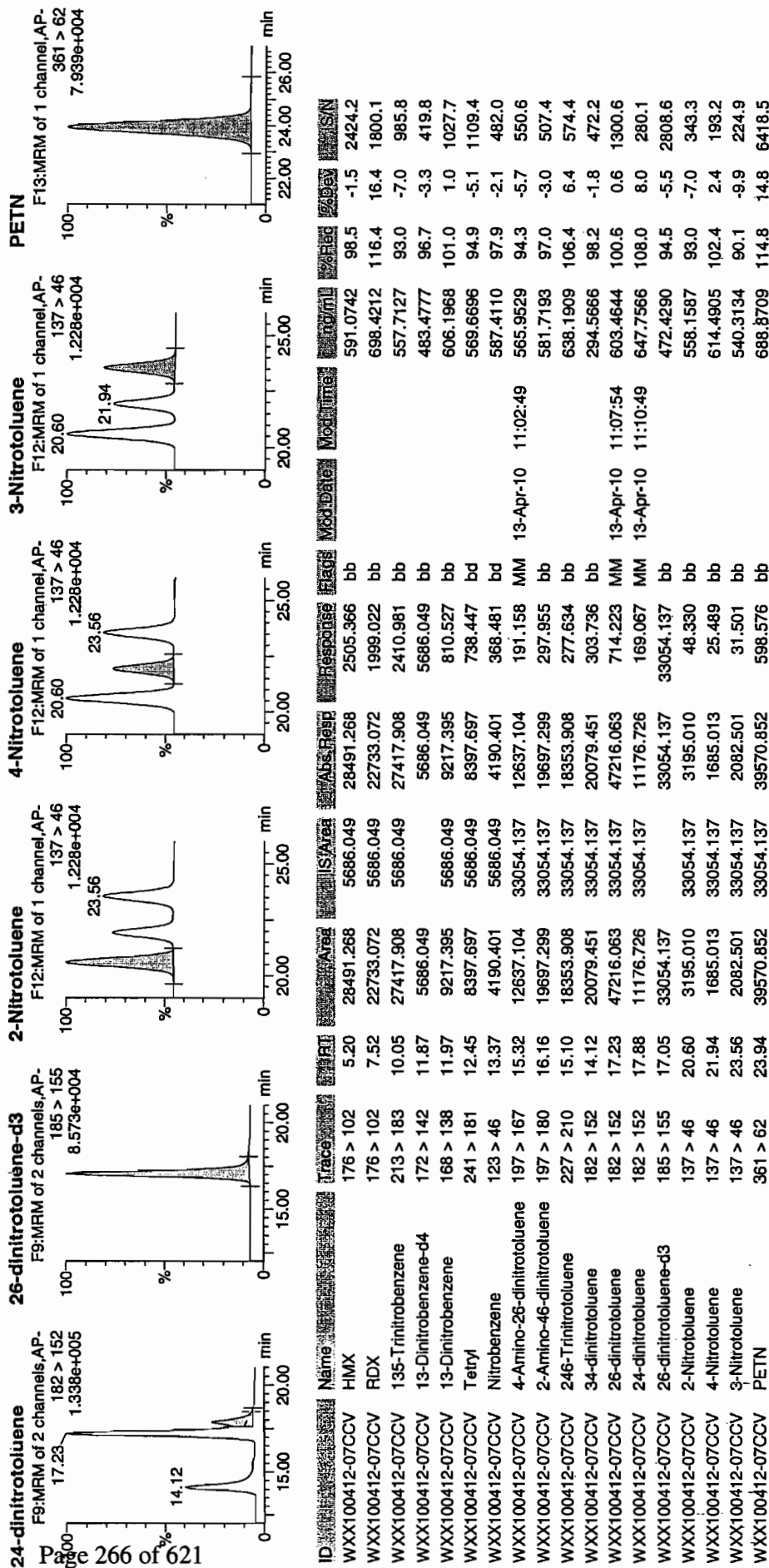
ID: WXX100412-07CCV

Ratio: 1:1,B

μg/g  
4/13/10



Dataset: C:\MASSLYNX\New\_Exp\PRO1041210expA.qld, Time: Tue Apr 13 11:12:22 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 04/13/10  
 Time of Injection: 0229  
 Standard Number: WXX100412-07CCV  
 Data File: EXP0412023a

HMX	98.5
RDX	116.4
135-TNB	93.0
13-DNB	101.0
Tetryl	94.9
Nitrobenzene	97.9
4A-26-DNT	94.3
2A-46-DNT	97.0
246-TNT	106.4
34-DNT(surr)	98.2
26-DNT	100.6
24-DNT	108.0
2-NT	93.0
4-NT	102.4
3-NT	90.1
PETN	114.8

*WTF  
4/13/10*

Total 1606.5

Average 100.4

*ARM 0 4/14/10*

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): 10-1908

Lab Code: GEL

GEL Sample ID: WXXCRI

GEL Data File EXP0412025a

Analysis Date: 13-APR-10 03:28

LCMSMS ID: 903

Column ID: Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2,4,6-Trinitrotoluene	40	39.436	99	
2,4-Dinitrotoluene	40	43.525	109	
2,6-Dinitrotoluene	40	39.656	99	
2,6-Dinitrotoluene-d3	500	514.01	103	
2-Amino-4,6-dinitrotoluene	40	37.309	93	
3,4-Dinitrotoluene	20	19.281	96	
4-Amino-2,6-dinitrotoluene	40	37.529	94	
HMX	40	42.31	106	
Nitrobenzene	40	35.496	89	
PETN	40	42.974	107	
RDX	40	45.439	114	
Tetryl	40	42.386	106	
m-Dinitrobenzene	40	46.427	116	
m-Nitrotoluene	40	39.933	100	
o-Nitrotoluene	40	37.946	95	
p-Nitrotoluene	40	42.692	107	
1,3,5-Trinitrobenzene	40	44.517	111	
1,3-Dinitrobenzene-d4	500	492.919	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

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412025a

Date: 13-Apr-2010

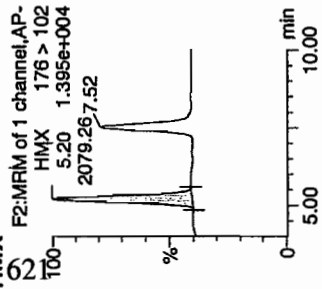
Time: 03:28:21

ID: WXX100412-08CRI

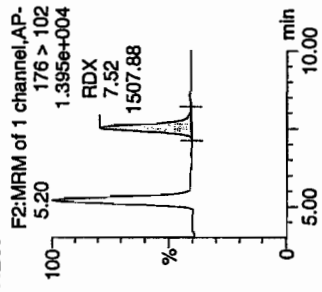
Val: 1:1,C

11/17  
4/13/10

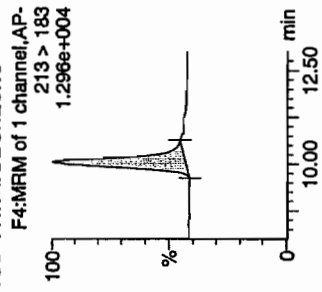
# **RMX**



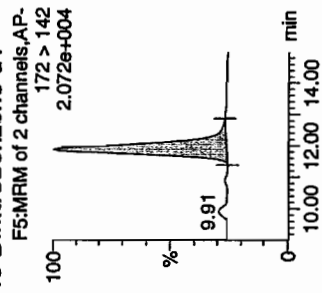
# **RDX**



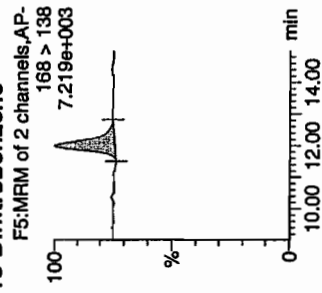
# **135-Trinitrobenzene**



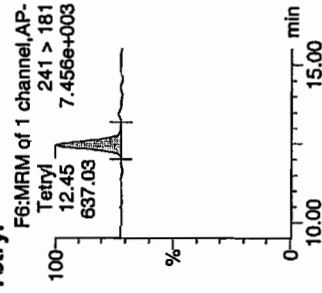
# **13-Dinitrobenzene-d4**



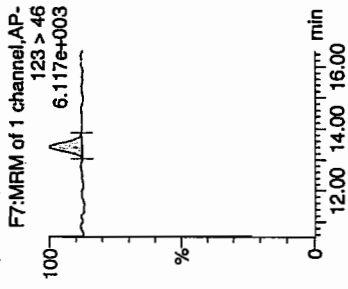
# **13-Dinitrobenzene**



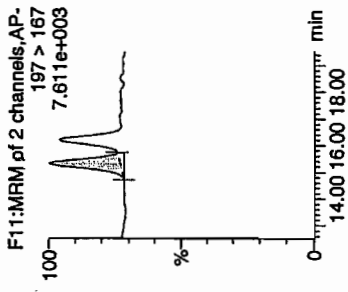
# **Tetryl**



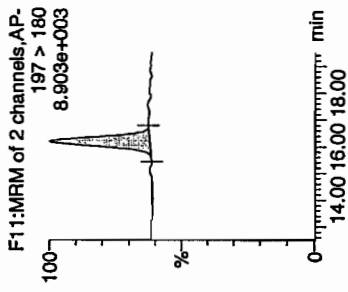
# **Nitrobenzene**



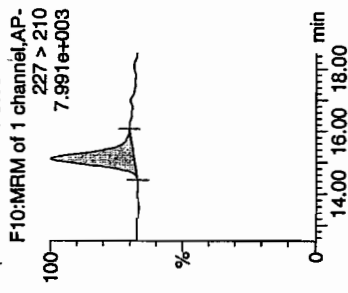
# **4-Amino-26-dinitrotoluene**



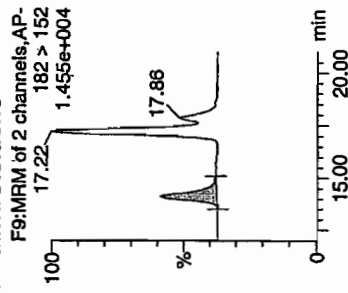
# **2-Amino-46-dinitrotoluene**



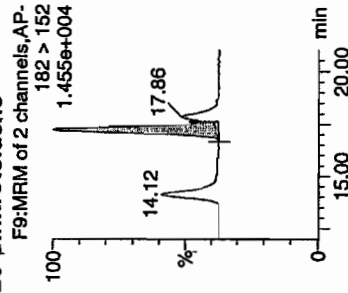
# **246-Trinitrotoluene**



# **34-dinitrotoluene**



# **26-dinitrotoluene**



HNW 4/14/10

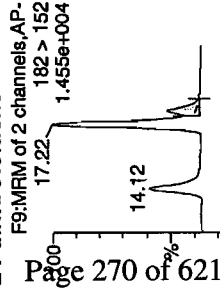
# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

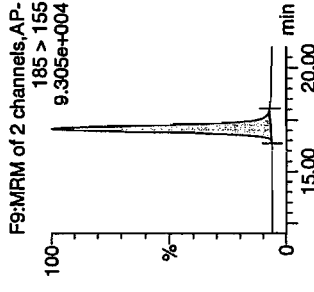
Printed: Tue Apr 13 11:14:26 2010, Page 50 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

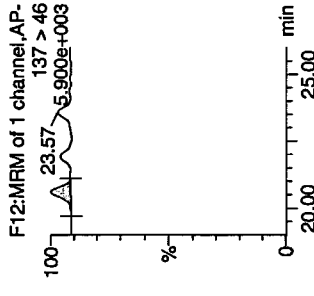
## 24-dinitrotoluene



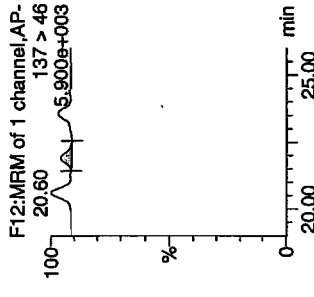
## 26-dinitrotoluene-d3



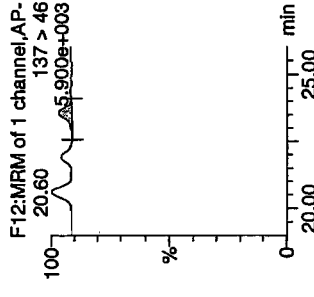
## 2-Nitrotoluene



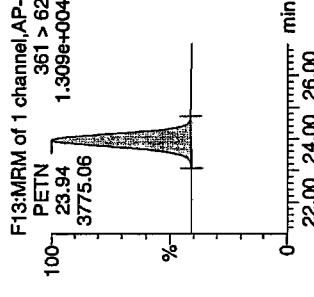
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	RT	Area	SArea	Abs.Resp	Response	Flags	Mod.Date	Mod.Time	Conc	%Rec	%Day	S/N
WXX100412-08CRI	HMX	176 > 102	5.20	2079.264	5797.090	2079.264	179.337	bb			42.3097	105.8	5.8	348.3
WXX100412-08CRI	RDX	176 > 102	7.52	1507.880	5797.090	1507.880	130.055	bb			45.4388	113.6	13.6	225.5
WXX100412-08CRI	135-Trinitrobenzene	213 > 183	10.05	2231.265	5797.090	2231.265	192.447	bb			44.5172	111.3	11.3	130.5
WXX100412-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	5797.090		5797.090	5797.090	bb			492.9193	98.6	1.4	771.9
WXX100412-08CRI	13-Dinitrobenzene	168 > 138	11.97	719.725	5797.090	719.725	62.076	bb			46.4272	116.1	16.1	67.2
WXX100412-08CRI	Tetryl	241 > 181	12.45	637.032	5797.090	637.032	54.944	bb			42.3862	106.0	6.0	45.1
WXX100412-08CRI	Nitrobenzene	123 > 46	13.41	258.161	5797.090	258.161	22.266	bb			35.4959	88.7	-11.3	32.0
WXX100412-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	911.734	35963.441	911.734	12.676	MM	13-Apr-10	11:02:58	37.5289	93.8	-6.2	44.8
WXX100412-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.19	1374.488	35963.441	1374.488	19.110	bb			37.3089	93.3	-6.7	102.4
WXX100412-08CRI	246-Trinitrotoluene	227 > 210	15.10	1233.959	35963.441	1233.959	17.156	bb			39.4355	98.6	-1.4	52.3
WXX100412-08CRI	34-dinitrotoluene	182 > 152	14.12	1430.000	35963.441	1430.000	19.881	bb			19.2811	96.4	-3.6	68.9
WXX100412-08CRI	26-dinitrotoluene	182 > 152	17.22	3375.872	35963.441	3375.872	46.935	MM	13-Apr-10	11:08:02	39.6563	99.1	-0.9	198.4
WXX100412-08CRI	24-dinitrotoluene	182 > 152	17.86	817.109	35963.441	817.109	11.360	MM	13-Apr-10	11:10:56	43.5253	108.8	8.8	43.1
WXX100412-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	35963.441		35963.441	35963.441	bb			514.0105	102.8	2.8	1763.8
WXX100412-08CRI	2-Nitrotoluene	137 > 46	20.60	236.329	35963.441	236.329	3.286	bb			37.9461	94.9	-5.1	26.8
WXX100412-08CRI	4-Nitrotoluene	137 > 46	21.92	127.371	35963.441	127.371	1.771	bb			42.6921	106.7	6.7	14.4
WXX100412-08CRI	3-Nitrotoluene	137 > 46	23.57	167.459	35963.441	167.459	2.328	bb			39.9332	99.8	-0.2	17.3
WXX100412-08CRI	PETN	361 > 62	23.94	3775.057	35963.441	3775.057	52.485	bb			42.9742	107.4	7.4	1684.5

# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 04/13/10  
 Time of Injection 0328  
 Standard Number WXX100412-08CRI  
 Data File EXP0412025a

HMX	105.8
RDX	113.6
135-TNB	111.3
13-DNB	116.1
Tetryl	106.0
Nitrobenzene	88.7
4A-26-DNT	93.8
2A-46-DNT	93.3
246-TNT	98.6
34-DNT(surr)	96.4
26-DNT	99.1
24-DNT	108.8
2-NT	94.9
4-NT	106.7
3-NT	99.8
PETN	107.4

*WTF  
4/13/10*

Total 1640.3

Average 102.5

*Home 04/14/10*

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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXP0412036a

**Analysis Date:** 13-APR-10 08:52

**LCMSMS ID:** 903

**Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
2-Amino-4,6-dinitrotoluene	600	599.331	100	
3,4-Dinitrotoluene	300	294.405	98	
4-Amino-2,6-dinitrotoluene	600	576.117	96	
HMX	600	602.928	100	
Nitrobenzene	600	645.578	108	
PETN	600	634.783	106	
RDX	600	702.566	117	
Tetryl	600	604.875	101	
m-Dinitrobenzene	600	626.308	104	
m-Nitrotoluene	600	515.069	86	
o-Nitrotoluene	600	519.467	87	
p-Nitrotoluene	600	594.454	99	
1,3,5-Trinitrobenzene	600	622.986	104	
1,3-Dinitrobenzene-d4	500	495.434	99	
2,4,6-Trinitrotoluene	600	635.68	106	
2,4-Dinitrotoluene	600	609.665	102	
2,6-Dinitrotoluene	600	616.741	103	
2,6-Dinitrotoluene-d3	500	514.162	103	

**Recovery Limits:**

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 71 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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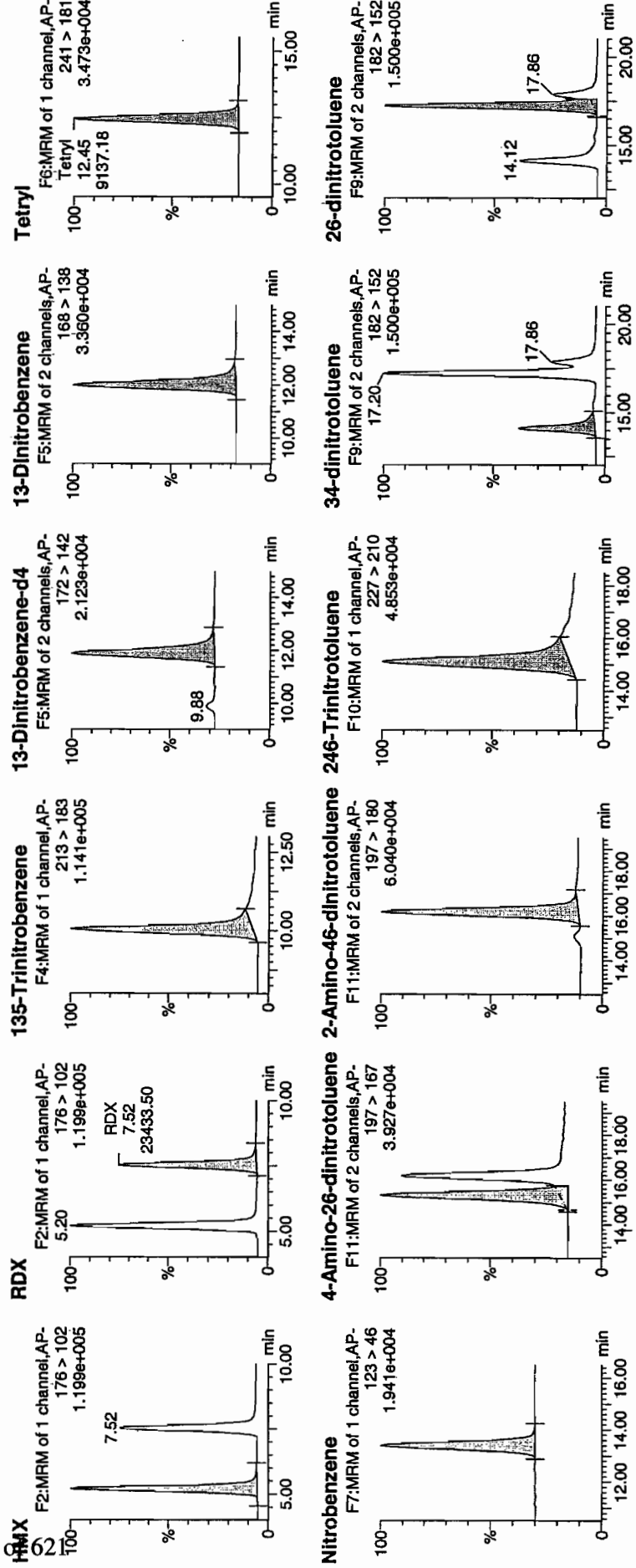
Date: 13-Apr-2010

Time: 08:52:42

ID: WXX100408-07CCV

Val: 1:1,B

11/13/10



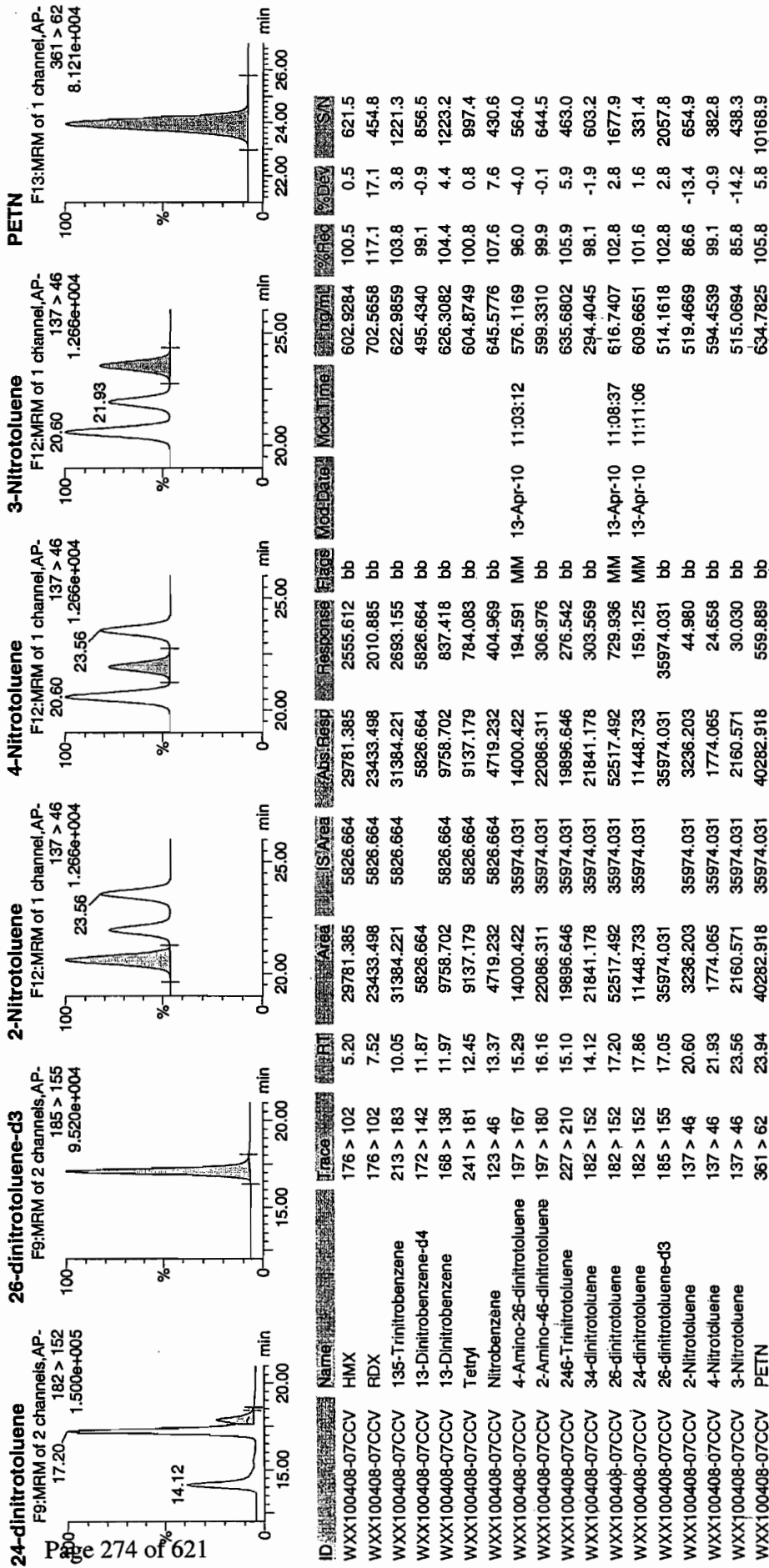
11/13/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 72 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 04/13/10  
 Time of Injection: 0852  
 Standard Number: WXX100412-07CCV  
 Data File: EXP0412036a

HMX	100.5
RDX	117.1
135-TNB	103.8
13-DNB	104.4
Tetryl	100.8
Nitrobenzene	107.6
4A-26-DNT	96.0
2A-46-DNT	99.9
246-TNT	105.9
34-DNT(surr)	98.1
26-DNT	102.8
24-DNT	101.6
2-NT	86.6
4-NT	99.1
3-NT	85.8
PETN	105.8

*WAT  
4/13/10*

Total 1615.8

*Sum 04/14/10*

Average 101.0

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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXP0412038a

**Analysis Date:** 13-APR-10 09:51

**LCMSMS ID:** 903

**Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
RDX	40	44.563	111	
Tetryl	40	40.879	102	
m-Dinitrobenzene	40	43.824	110	
m-Nitrotoluene	40	36.581	91	
o-Nitrotoluene	40	36.682	92	
p-Nitrotoluene	40	38.153	95	
1,3,5-Trinitrobenzene	40	45.739	114	
1,3-Dinitrobenzene-d4	500	533	107	
2,4,6-Trinitrotoluene	40	38.169	95	
2,4-Dinitrotoluene	40	45.21	113	
2,6-Dinitrotoluene	40	40.851	102	
2,6-Dinitrotoluene-d3	500	511.74	102	
2-Amino-4,6-dinitrotoluene	40	38.558	96	
3,4-Dinitrotoluene	20	21.488	107	
4-Amino-2,6-dinitrotoluene	40	37.158	93	
HMX	40	39.698	99	
Nitrobenzene	40	39.676	99	
PETN	40	46.251	116	

**Recovery Limits:**

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 75 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

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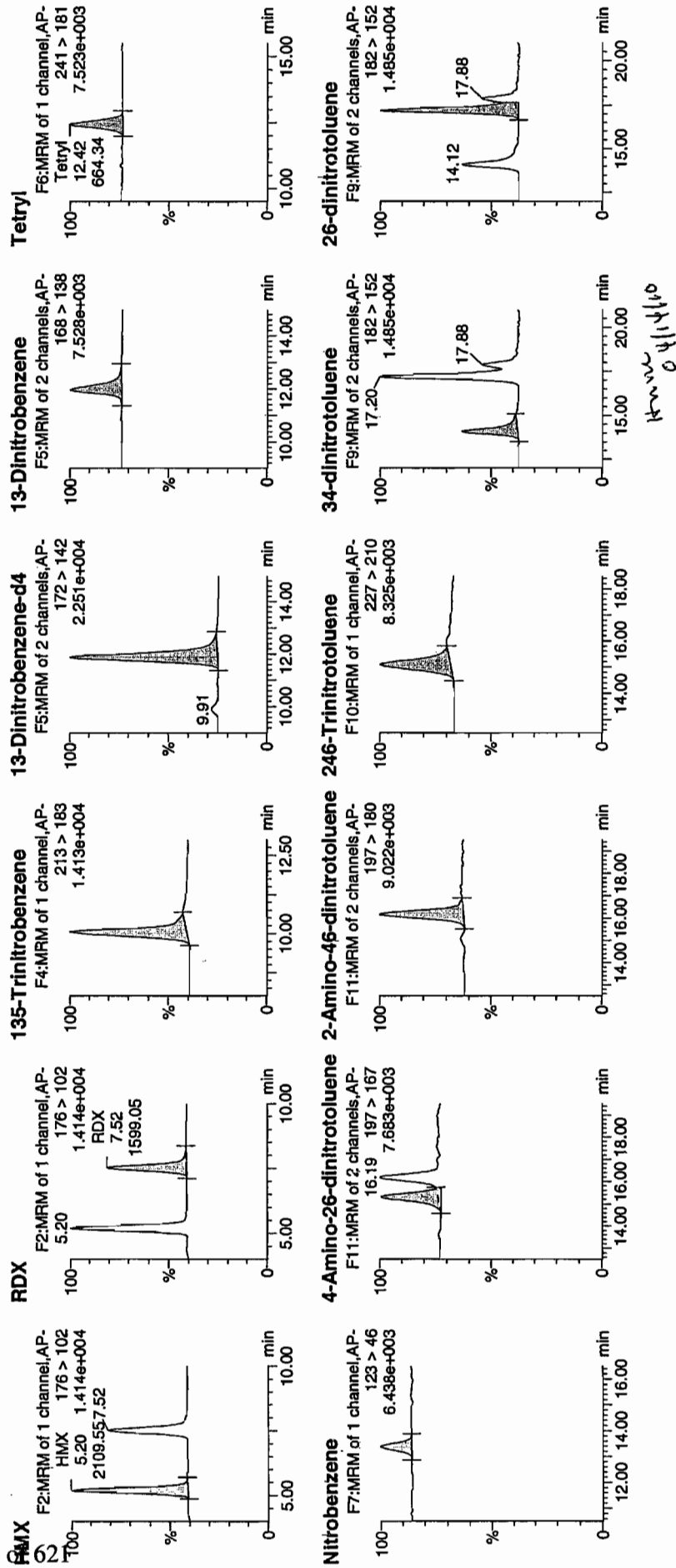
Date: 13-Apr-2010

Time: 09:51:47

ID: WXX100408-08CRI

Val: 1:1,C

4/13/10



Dataset: C:\MASSLYN\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

## 24-dinitrotoluene

F9:MRM of 2 channels, AP-

182 &gt; 152

1.485e+004

17.20

14.12

100

%

min

20.00

15.00

0

min

20.00

## 26-dinitrotoluene-d3

F9:MRM of 2 channels, AP-

185 &gt; 155

9.335e+004

17.20

14.12

100

%

min

20.00

15.00

0

min

20.00

## 2-Nitrotoluene

F12:MRM of 1 channel, AP-

137 &gt; 46

6.045e+003

23.58

20.61

100

%

min

25.00

20.00

0

min

25.00

## 4-Nitrotoluene

F12:MRM of 1 channel, AP-

137 &gt; 46

6.045e+003

20.61

20.61

100

%

min

25.00

20.00

0

min

25.00

## 3-Nitrotoluene

F12:MRM of 1 channel, AP-

137 &gt; 46

6.045e+003

20.61

20.61

100

%

min

25.00

20.00

0

min

25.00

## PETN

F13:MRM of 1 channel, AP-

361 &gt; 62

1.373e+004

3989.93

23.93

100

%

min

24.00

22.00

0

min

26.00

ID	Name	Trace	RT	Area	S Area	Area Resp	Response	Flags	Mod Date	Mod Time	RT/ML	%BSc	%Dev	SN
WXX100408-08CRI	HMX	176 > 102	5.20	2109.553	6268.472	2109.553	168.267	bb			39.6981	99.2	-0.8	344.7
WXX100408-08CRI	RDX	176 > 102	7.52	1599.046	6268.472	1599.046	127.547	bb			44.5625	111.4	11.4	232.6
WXX100408-08CRI	135-Trinitrobenzene	213 > 183	10.05	2478.890	6268.472	2478.890	197.727	bb			45.7385	114.3	14.3	445.4
WXX100408-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	6268.472	6268.472	6268.472	6268.472	bb			533.0004	106.6	6.6	316.8
WXX100408-08CRI	13-Dinitrobenzene	168 > 138	11.97	734.612	6268.472	734.612	58.596	bb			43.8240	109.6	9.6	56.6
WXX100408-08CRI	Tetryl	241 > 181	12.42	664.339	6268.472	664.339	52.991	bb			40.8791	102.2	2.2	77.0
WXX100408-08CRI	Nitrobenzene	123 > 46	13.37	312.027	6268.472	312.027	24.889	bb			39.6760	99.2	-0.8	26.2
WXX100408-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.32	898.733	35804.613	898.733	12.551	MM	13-Apr-10	11:03:18	37.1578	92.9	-7.1	46.5
WXX100408-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.16	1414.235	35804.613	1414.235	19.749	bb			38.5581	96.4	-3.6	64.1
WXX100408-08CRI	246-Trinitrotoluene	227 > 210	15.10	1189.063	35804.613	1189.063	16.505	bb			38.1693	95.4	-4.6	105.0
WXX100408-08CRI	34-Dinitrotoluene	182 > 152	14.12	1586.630	35804.613	1586.630	22.157	bb			21.4879	107.4	7.4	45.9
WXX100408-08CRI	26-dinitrotoluene	182 > 152	17.20	3462.203	35804.613	3462.203	48.349	MM	13-Apr-10	11:08:46	40.8509	102.1	2.1	112.8
WXX100408-08CRI	24-dinitrotoluene	182 > 152	17.88	844.986	35804.613	844.986	11.800	MM	13-Apr-10	11:11:14	45.2099	113.0	13.0	28.2
WXX100408-08CRI	26-dinitrotoluene-d3	185 > 155	17.05	35804.613	35804.613	35804.613	35804.613	bb			511.7404	102.3	2.3	2742.4
WXX100408-08CRI	2-Nitrotoluene	137 > 46	20.61	227.450	35804.613	227.450	3.176	bb			36.6824	91.7	-8.3	42.8
WXX100408-08CRI	4-Nitrotoluene	137 > 46	21.94	113.326	35804.613	113.326	1.583	bb			38.1530	95.4	-4.6	23.5
WXX100408-08CRI	3-Nitrotoluene	137 > 46	23.58	152.725	35804.613	152.725	2.133	bb			36.5812	91.5	-8.5	27.1
WXX100408-08CRI	PETN	361 > 62	23.93	3989.934	35804.613	3989.934	55.718	bb			46.2507	115.6	15.6	239.5

# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 04/13/10  
 Time of Injection 0951  
 Standard Number WXX100412-08CRI  
 Data File EXP0412038a

HMX	99.2
RDX	111.4
135-TNB	114.3
13-DNB	109.6
Tetryl	102.2
Nitrobenzene	99.2
4A-26-DNT	92.9
2A-46-DNT	96.4
246-TNT	95.4
34-DNT(surr)	107.4
26-DNT	102.1
24-DNT	113.0
2-NT	91.7
4-NT	95.4
3-NT	91.5
PETN	115.6

*uH  
4/13/10*

Total 1637.3

Average 102.3

*time 04/14/10*

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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXP0412049a

**Analysis Date:** 13-APR-10 15:16

**LCMSMS ID:** 903

**Column ID** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
o-Nitrotoluene	600	525.761	88	
p-Nitrotoluene	600	663.98	111	
1,3,5-Trinitrobenzene	600	571.573	95	
1,3-Dinitrobenzene-d4	500	506.928	101	
2,4,6-Trinitrotoluene	600	673.095	112	
2,4-Dinitrotoluene	600	690.861	115	
2,6-Dinitrotoluene	600	617.582	103	
2,6-Dinitrotoluene-d3	500	498.886	100	
2-Amino-4,6-dinitrotoluene	600	607.095	101	
3,4-Dinitrotoluene	300	303.099	101	
4-Amino-2,6-dinitrotoluene	600	604.473	101	
HMX	600	617.414	103	
Nitrobenzene	600	582.952	97	
PETN	600	664.135	111	
RDX	600	727.871	121	*
Tetryl	600	602.021	100	
m-Dinitrobenzene	600	604.378	101	
m-Nitrotoluene	600	551.203	92	

**Recovery Limits:**

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

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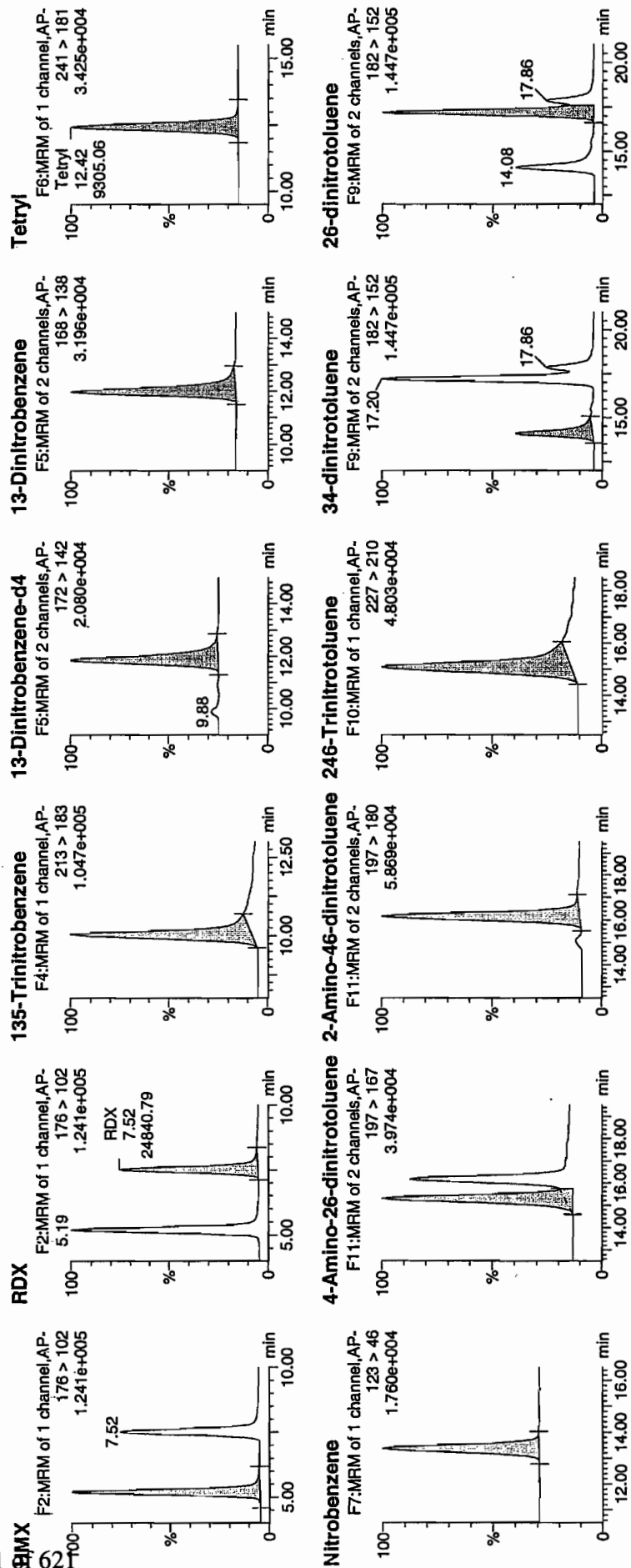
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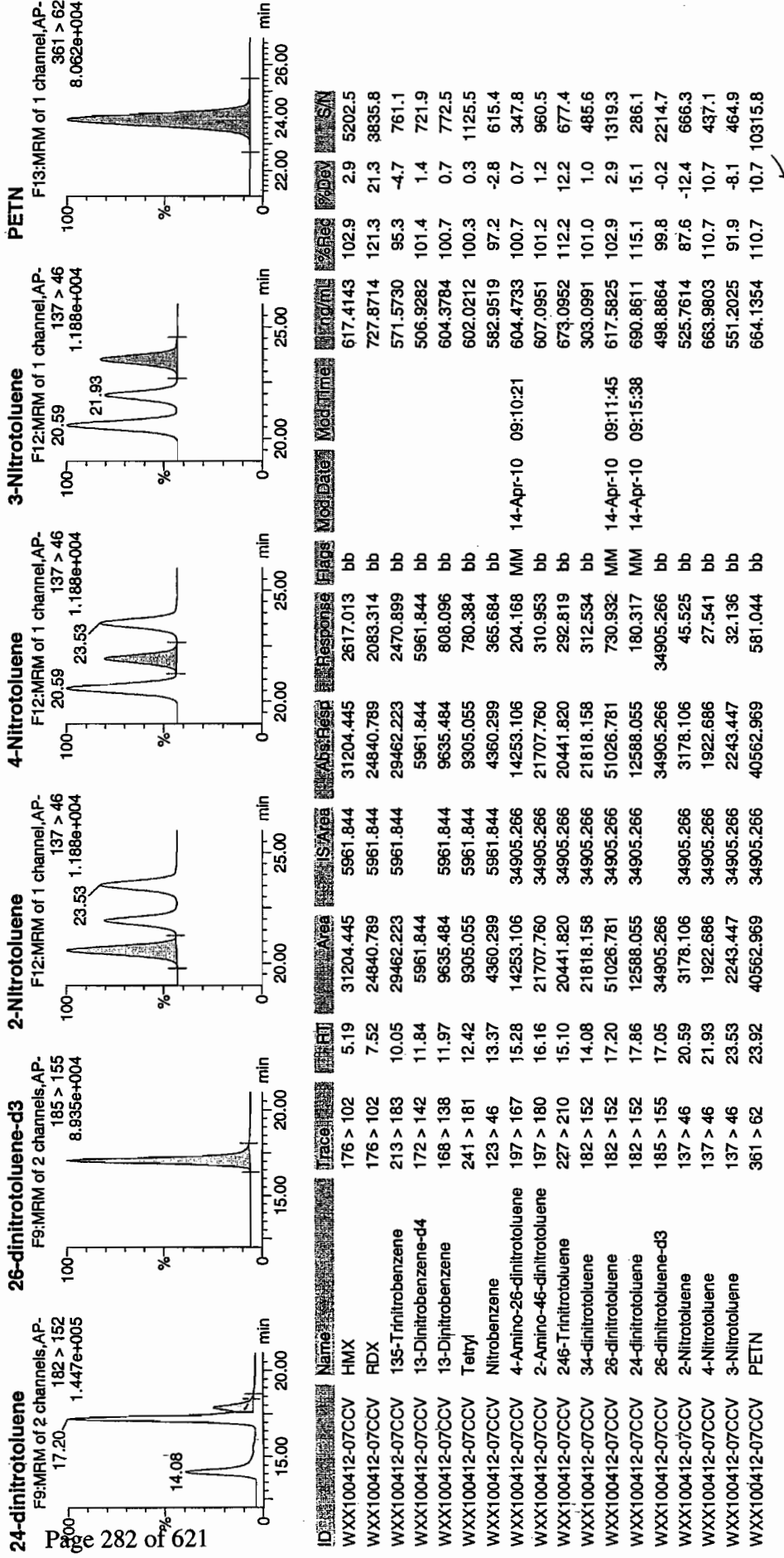
Val: 1:1,B

WRT  
4/14/10



4/14/10

Dataset: C:\MASSLYNX\New\_Exp\PROV041210expA1.qld, Time: Wed Apr 14 09:16:31 2010



# GRAND MEAN AVERAGE

Vendor: Restek  
 Date of Analysis: 04/13/10  
 Time of Injection: 1516  
 Standard Number: WXX100412-07CCV  
 Data File: EXP0412049a

HMX	102.9
RDX	121.3
135-TNB	95.3
13-DNB	100.7
Tetryl	100.3
Nitrobenzene	97.2
4A-26-DNT	100.7
2A-46-DNT	101.2
246-TNT	112.2
34-DNT(surr)	101.0
26-DNT	102.9
24-DNT	115.1
2-NT	87.6
4-NT	110.7
3-NT	91.9
PETN	110.7

*mtt  
4/14/10*

Total 1651.7

*mtt 04/14/10*

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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXP0412051a

**Analysis Date:** 13-APR-10 16:15

**LCMSMS ID:** 903

**Column ID:** Phenomenex Ultracarb 5u ODS(20)

Compound	True	Found	Recovery	Q
1,3,5-Trinitrobenzene	40	43.445	109	
1,3-Dinitrobenzene-d4	500	578.682	116	
2,4,6-Trinitrotoluene	40	41.977	105	
2,4-Dinitrotoluene	40	41.352	103	
2,6-Dinitrotoluene	40	41.013	103	
2,6-Dinitrotoluene-d3	500	540.214	108	
2-Amino-4,6-dinitrotoluene	40	38.681	97	
3,4-Dinitrotoluene	20	22.076	110	
4-Amino-2,6-dinitrotoluene	40	40.59	101	
HMX	40	38.797	97	
Nitrobenzene	40	39.951	100	
PETN	40	48.006	120	
RDX	40	40.505	101	
Tetryl	40	40.745	102	
m-Dinitrobenzene	40	41.507	104	
m-Nitrotoluene	40	38.882	97	
o-Nitrotoluene	40	38.71	97	
p-Nitrotoluene	40	41.261	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

Dataset: C:\MASSLYNX\New\_Exp\PRO\041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

Name: C:\MASSLYNX\NEW\_EXP\PRO\Data\EXP0412051a

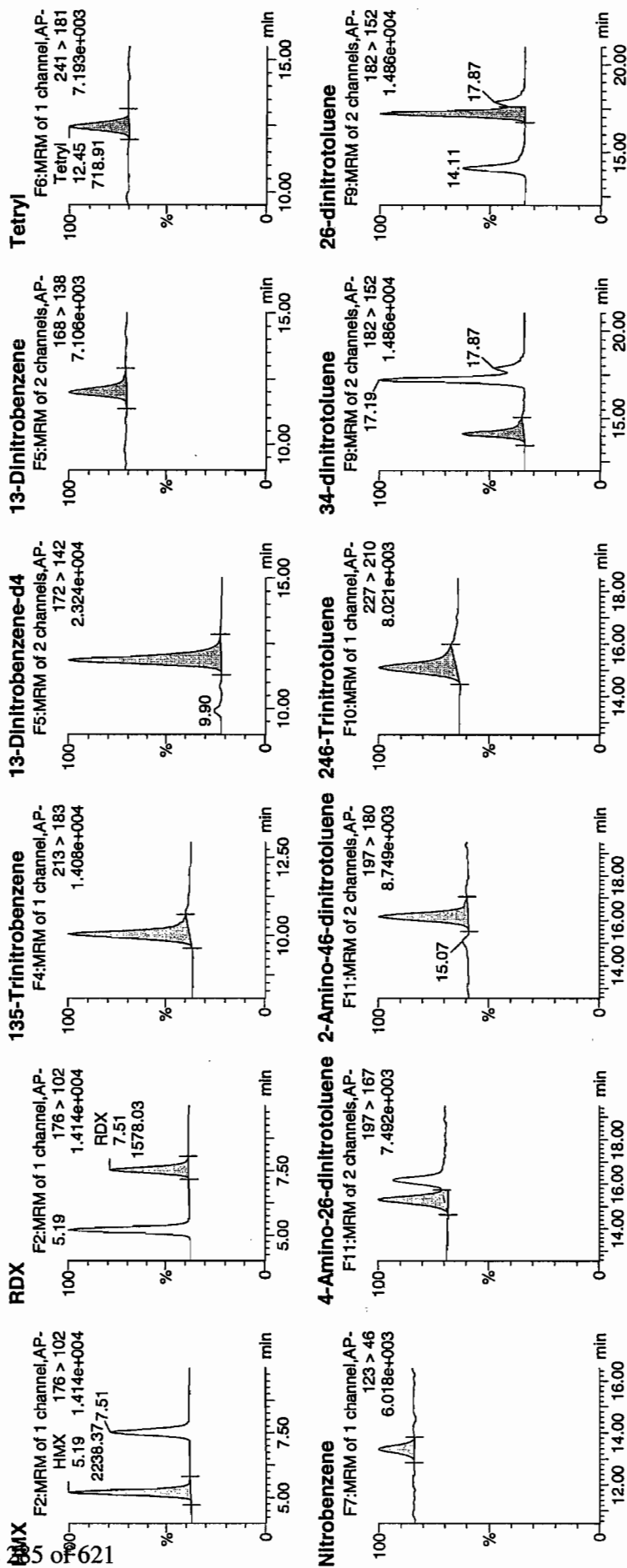
Date: 13-Apr-2010

Time: 16:15:40

ID: WXX100412-08CRI

Label: 1:1,C

1.414e+004  
4/14/10



4/14/10

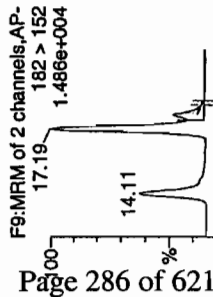
# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

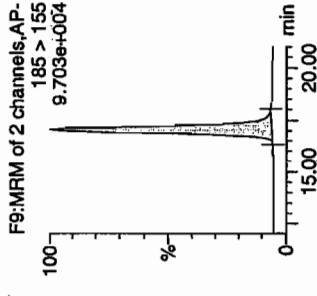
Printed: Wed Apr 14 09:18:04 2010, Page 26 of 75

Dataset: C:\MASSLYNX\New\_Exp\PRO041210expA1.qld, Time: Wed Apr 14 09:16:31 2010

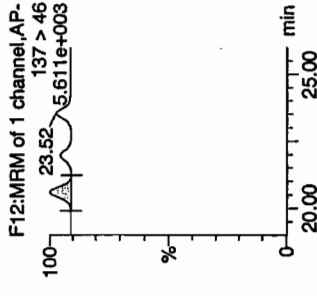
## 24-dinitrotoluene



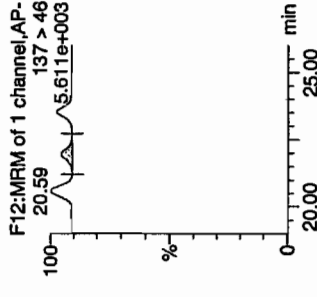
## 26-dinitrotoluene-d3



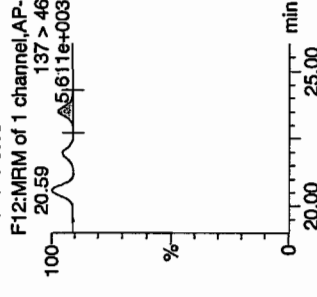
## 2-Nitrotoluene



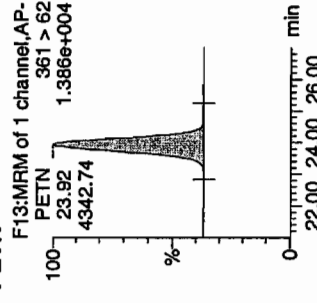
## 4-Nitrotoluene



## 3-Nitrotoluene



## PETN



ID	Name	Trace	RT	Area	S/Area	Abs/Resp	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	S/N
WXX100412-08CRI	HMX	176 > 102	5.19	2238.372	6805.720	2238.372	164.448	bb			38.7971	97.0	-3.0	208.5
WXX100412-08CRI	RDX	176 > 102	7.51	1578.030	6805.720	1578.030	115.934	bb			40.5052	101.3	1.3	135.6
WXX100412-08CRI	135-Trinitrobenzene	213 > 183	10.03	2556.376	6805.720	2556.376	187.811	bb			43.4448	108.6	8.6	179.0
WXX100412-08CRI	13-Dinitrobenzene-d4	172 > 142	11.87	6805.720	6805.720	6805.720	6805.720	bb			578.6819	115.7	15.7	507.4
WXX100412-08CRI	13-Dinitrobenzene	168 > 138	11.97	755.409	6805.720	755.409	55.498	bb			41.5073	103.8	3.8	74.5
WXX100412-08CRI	Tetryl	241 > 181	12.45	718.910	6805.720	718.910	52.817	bb			40.7450	101.9	1.9	73.1
WXX100412-08CRI	Nitrobenzene	123 > 46	13.35	341.116	6805.720	341.116	25.061	bb			39.9508	99.9	-0.1	27.5
WXX100412-08CRI	4-Amino-26-dinitrotoluene	197 > 167	15.27	1036.367	37796.773	1036.367	13.710	MM	14-Apr-10	09:10:14	40.5898	101.5	1.5	59.1
WXX100412-08CRI	2-Amino-46-dinitrotoluene	197 > 180	16.15	1497.691	37796.773	1497.691	19.812	bb			38.6812	96.7	-3.3	67.3
WXX100412-08CRI	246-Trinitrotoluene	227 > 210	15.09	1380.441	37796.773	1380.441	18.261	bb			41.9770	104.9	4.9	85.1
WXX100412-08CRI	34-dinitrotoluene	182 > 152	14.11	1720.770	37796.773	1720.770	22.763	bb			22.0763	110.4	10.4	91.2
WXX100412-08CRI	26-dinitrotoluene	182 > 152	17.19	3669.359	37796.773	3669.359	48.541	MM	14-Apr-10	09:11:53	41.0132	102.5	2.5	216.3
WXX100412-08CRI	24-dinitrotoluene	182 > 152	17.87	815.884	37796.773	815.884	10.793	MM	14-Apr-10	09:15:28	41.3520	103.4	3.4	43.1
WXX100412-08CRI	26-dinitrotoluene-d3	185 > 155	17.04	37796.773	37796.773	37796.773	37796.773	bb			540.2135	108.0	8.0	1682.3
WXX100412-08CRI	2-Nitrotoluene	137 > 46	20.59	253.376	37796.773	253.376	3.352	bb			38.7099	96.8	-3.2	70.2
WXX100412-08CRI	4-Nitrotoluene	137 > 46	21.96	129.377	37796.773	129.377	1.711	bb			41.2610	103.2	3.2	35.2
WXX100412-08CRI	3-Nitrotoluene	137 > 46	23.52	171.362	37796.773	171.362	2.267	bb			38.8818	97.2	-2.8	48.1
WXX100412-08CRI	PETN	361 > 62	23.92	4342.742	37796.773	4342.742	57.449	bb			48.0061	120.0	20.0	1612.5

# GRAND MEAN AVERAGE

Vendor: UltraScientific  
 Date of Analysis 04/13/10  
 Time of Injection 1615  
 Standard Number WXX100412-08CRI  
 Data File EXP0412051a

HMX	97.0
RDX	101.3
135-TNB	108.6
13-DNB	103.8
Tetryl	101.9
Nitrobenzene	99.9
4A-26-DNT	101.5
2A-46-DNT	96.7
246-TNT	104.9
34-DNT(surr)	110.4
26-DNT	102.5
24-DNT	103.4
2-NT	96.8
4-NT	103.2
3-NT	97.2
PETN	120.0

*not  
4/14/10*

Total 1649.1

Average 103.1

*Hand 4/14/10*

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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100013.wiff

**Analysis Date:** 10-MAR-10 18:39

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	48.5	97	
3,5-Dinitroaniline	100	87.1	87	
TATB	100	91.8	92	
tris(o-cresyl) phosphate	100	97.1	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



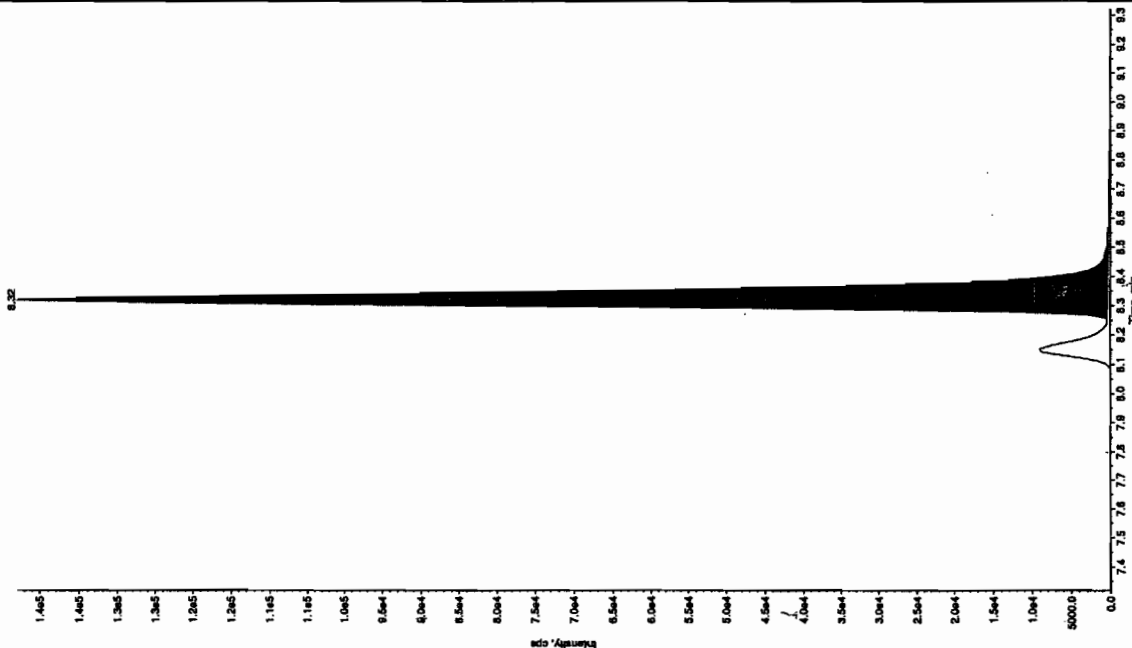


Sample Name: "WXX100310-27C01" Sample ID: "H1LER" File: "EX903100013.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: OC  
 Concentration: 50.0 ng/mL  
 Calculated Conc: 49.5 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 6:19:55 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: 8.32 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 8.32 min  
 Area: 5.21e+005 counts  
 Height: 14235394 cps  
 Start Time: 8.25 min  
 End Time: 8.61 min

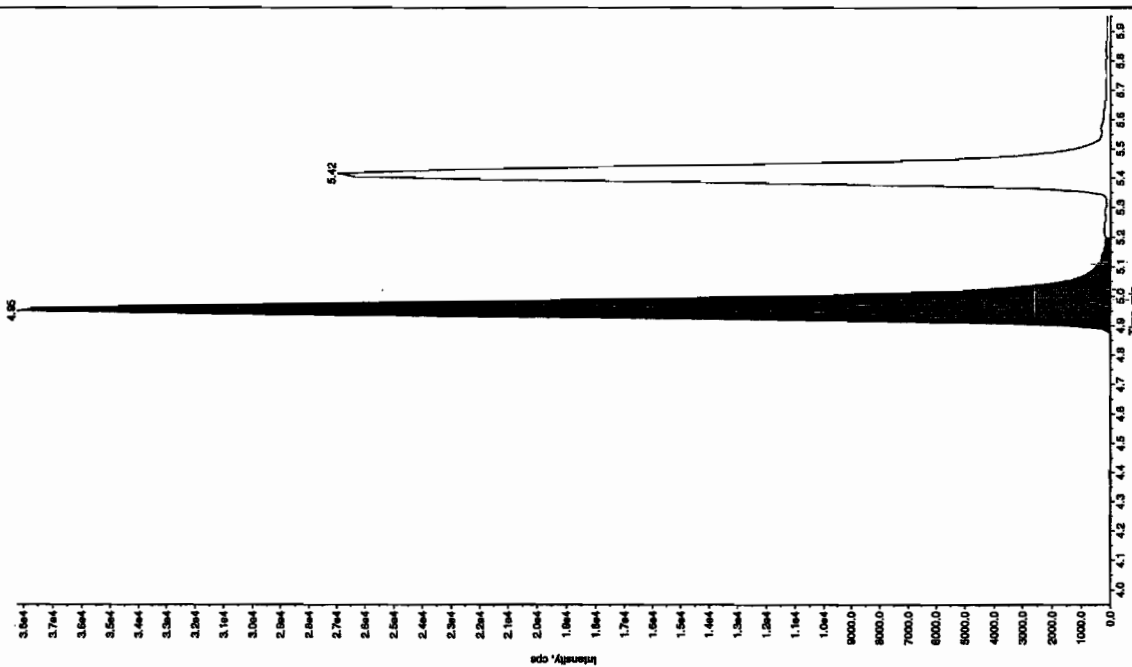


Sample Name: "WXX100310-27C01" Sample ID: "H1LER" File: "EX903100013.wif"  
 Peak Name: "28-Dinitro-4-Hydrofluorene" Mass(es): "166.0/166.0 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: OC  
 Concentration: 100.0 ng/mL  
 Calculated Conc: 103.0 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 6:19:55 PM

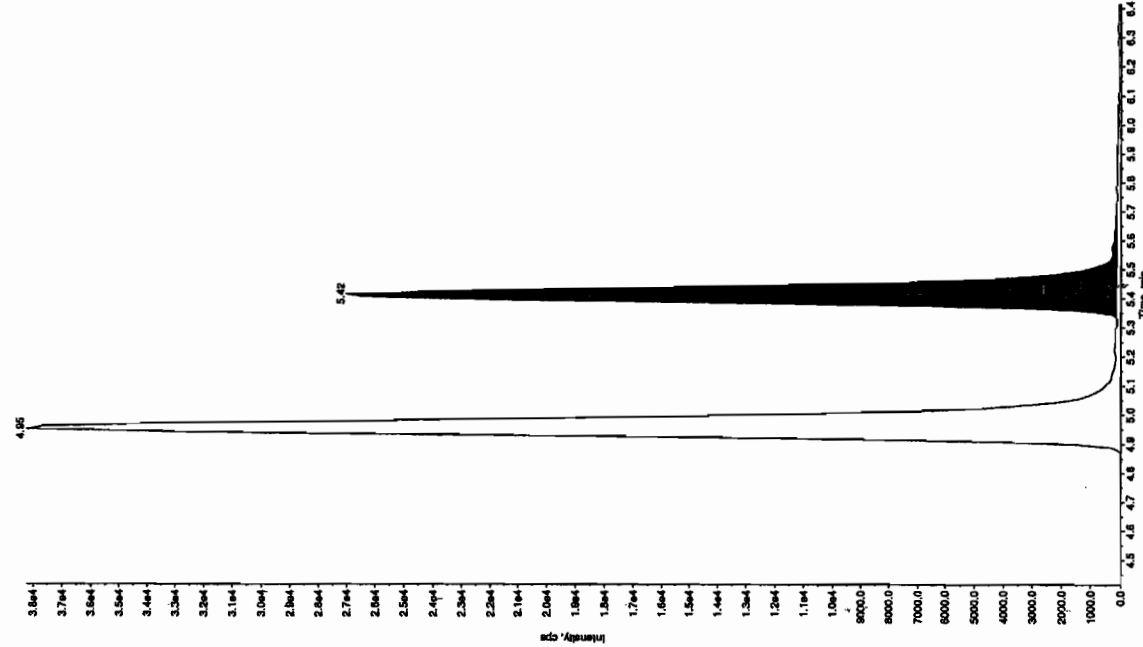
Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 4.95 min  
 Area: 1.58e+005 counts  
 Height: 38183716 cps  
 Start Time: 4.82 min  
 End Time: 5.20 min



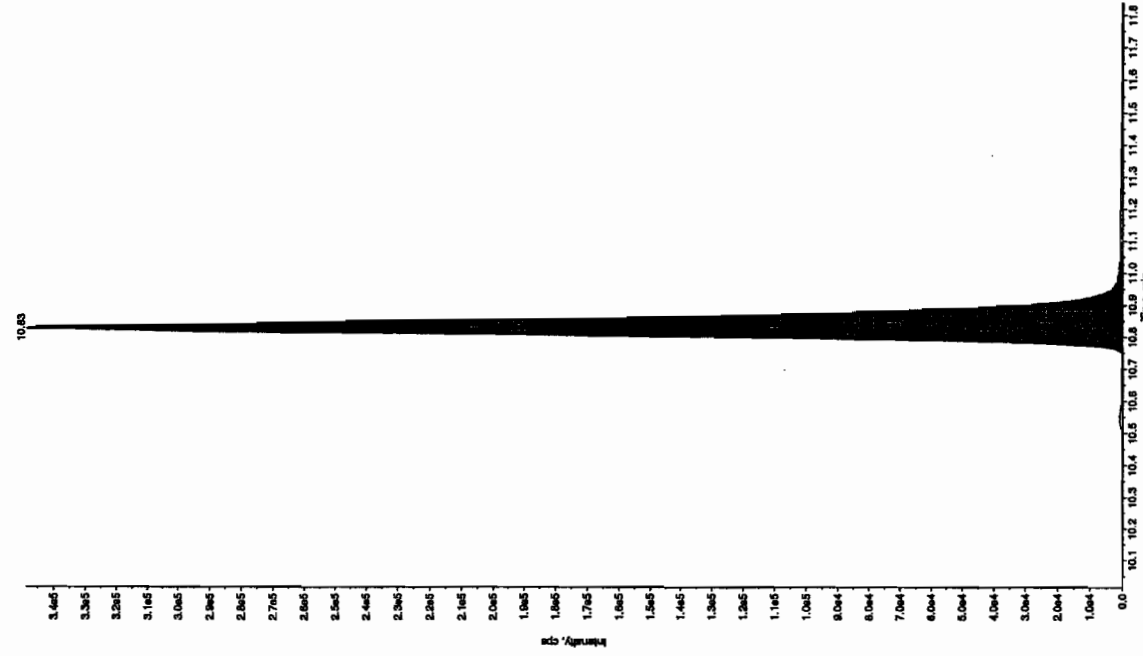
Sample Name: "WXX100310-27C.R" Sample ID: "111LRF" File: "EX503100013.w" Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "166.046.0 amu" Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: 100  
 Concentration: 100 ng/mL  
 Calculated Conc: 3/10/2010  
 Acq. Date: 6:39:55 PM  
 Acq. Time: 6:39:55 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: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.42 min  
 Area: 1.08e+005 counts  
 Height: 28822.14 cps  
 Start Time: 5.31 min  
 End Time: 5.57 min



Sample Name: "WXX100310-27C.R" Sample ID: "111LRF" File: "EX503100013.w" Peak Name: "tris(o-cresyl) phosphate" Mass(es): "386.191.0 amu" Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: 100  
 Concentration: 100 ng/mL  
 Calculated Conc: 3/10/2010  
 Acq. Date: 6:39:55 PM  
 Acq. Time: 6:39:55 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: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 1.34e+006 counts  
 Height: 348340.315 cps  
 Start Time: 10.7 min  
 End Time: 11.1 min



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100024.wiff

**Analysis Date:** 10-MAR-10 21:32

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	519	104	
2,6-Diamino-4-nitrotoluene	500	522	104	
3,4-Dinitrotoluene	250	258	103	
3,5-Dinitroaniline	500	541	108	
TATB	500	483	97	
tris(o-cresyl) phosphate	500	480	96	

**Recovery Limits:**

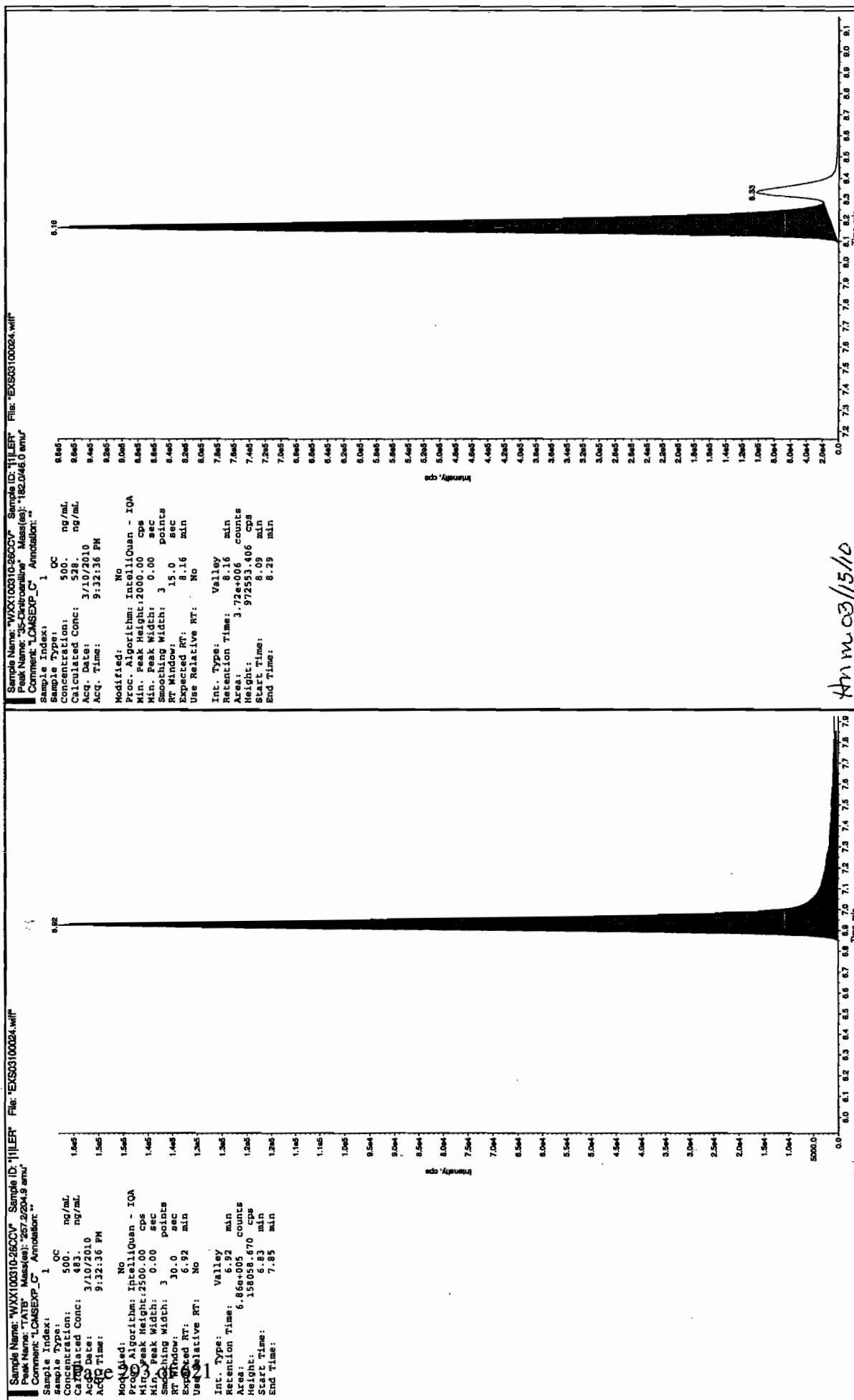
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

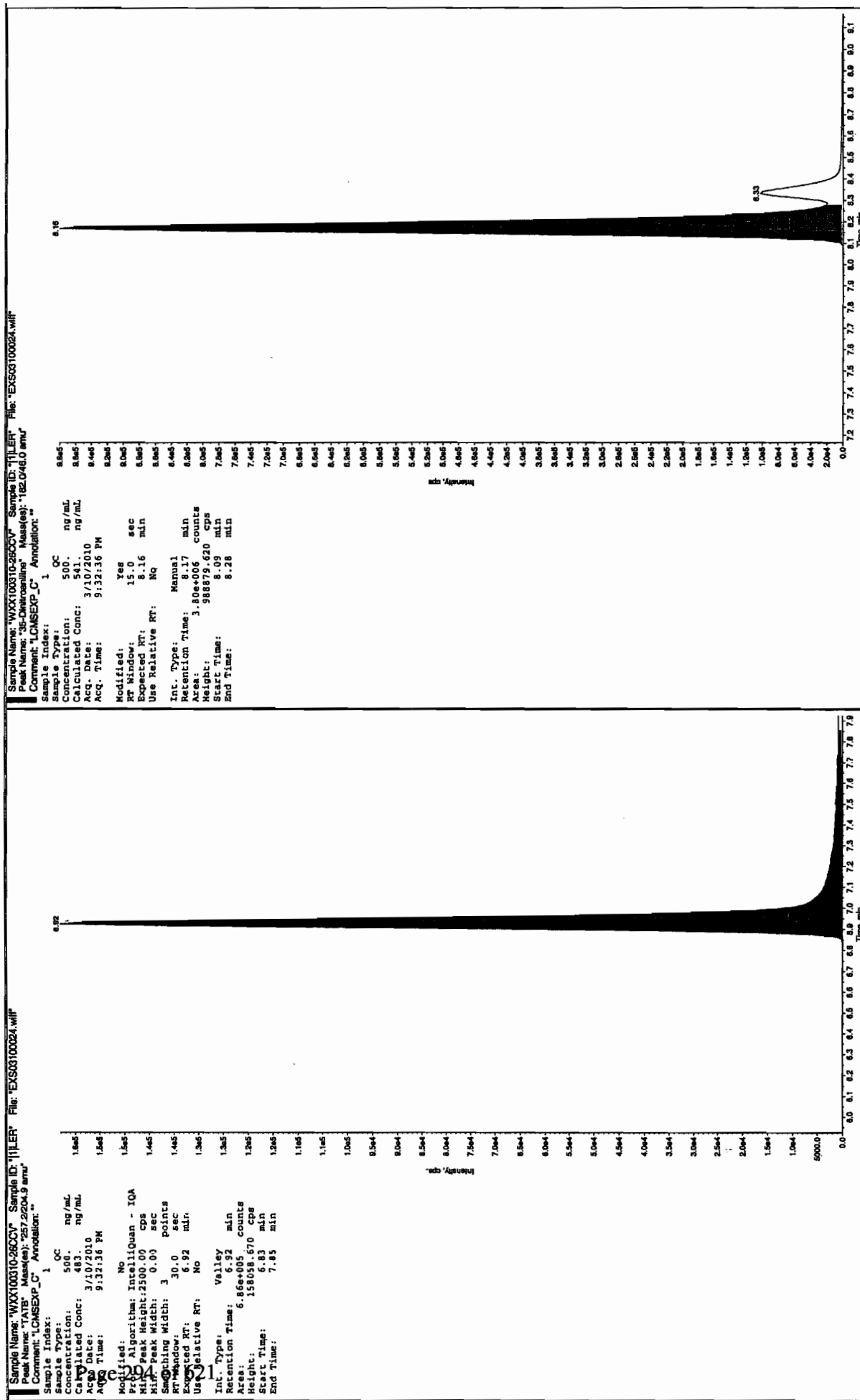
\* Value outside of Recovery Limits

Before Jan 31/3/10



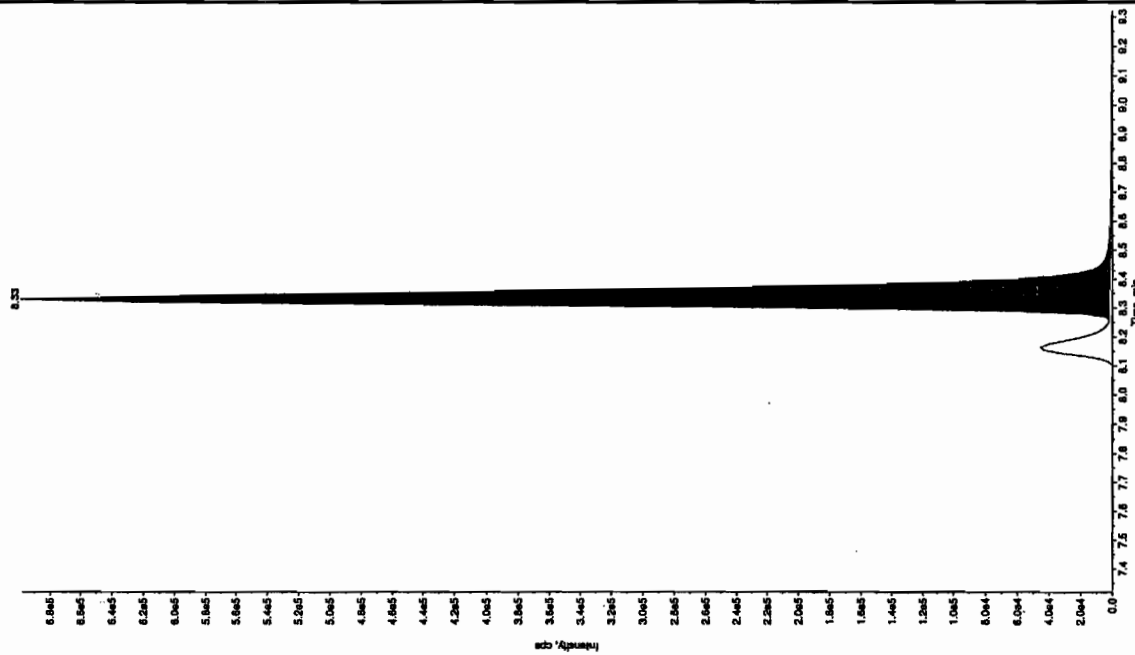
Am m 03/15/10

after Jan 31/3/10



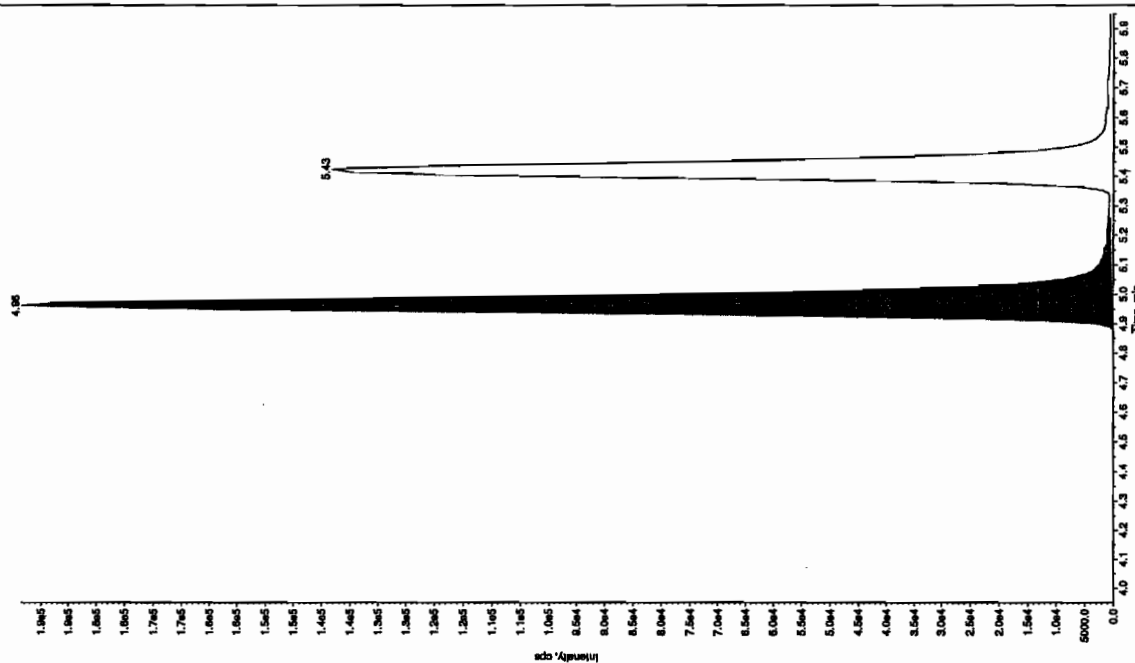
Sample Name: "WXX100310-26CCV" Sample ID: "H1LER" File: "EX903100024.wif"  
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/161.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250. ng/mL  
 Calculated Conc: 3/10/2010 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 9:32:36 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: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.60e+006 counts  
 Height: 696777.588 cps  
 Start Time: 8.26 min  
 End Time: 8.55 min



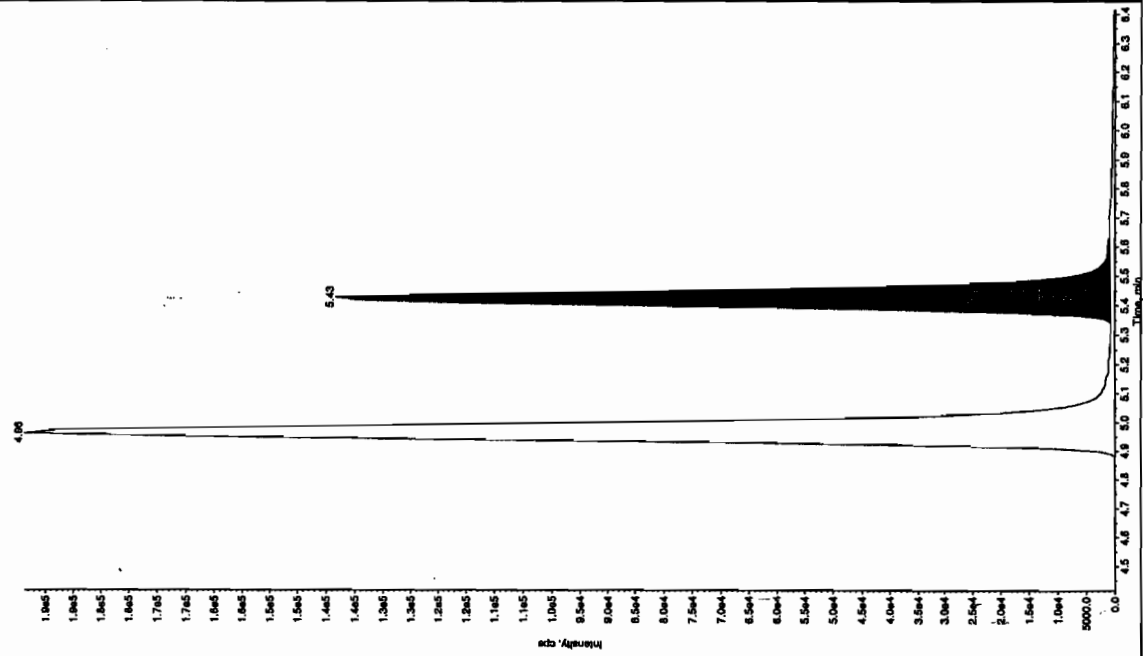
Sample Name: "WXX100310-26CCV" Sample ID: "H1LER" File: "EX903100024.wif"  
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "186.0/165.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 3/10/2010 ng/mL  
 Acq. Date: 3/10/2010  
 Acq. Time: 9:32:36 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 8.00e+005 counts  
 Height: 193239.419 cps  
 Start Time: 4.87 min  
 End Time: 5.26 min



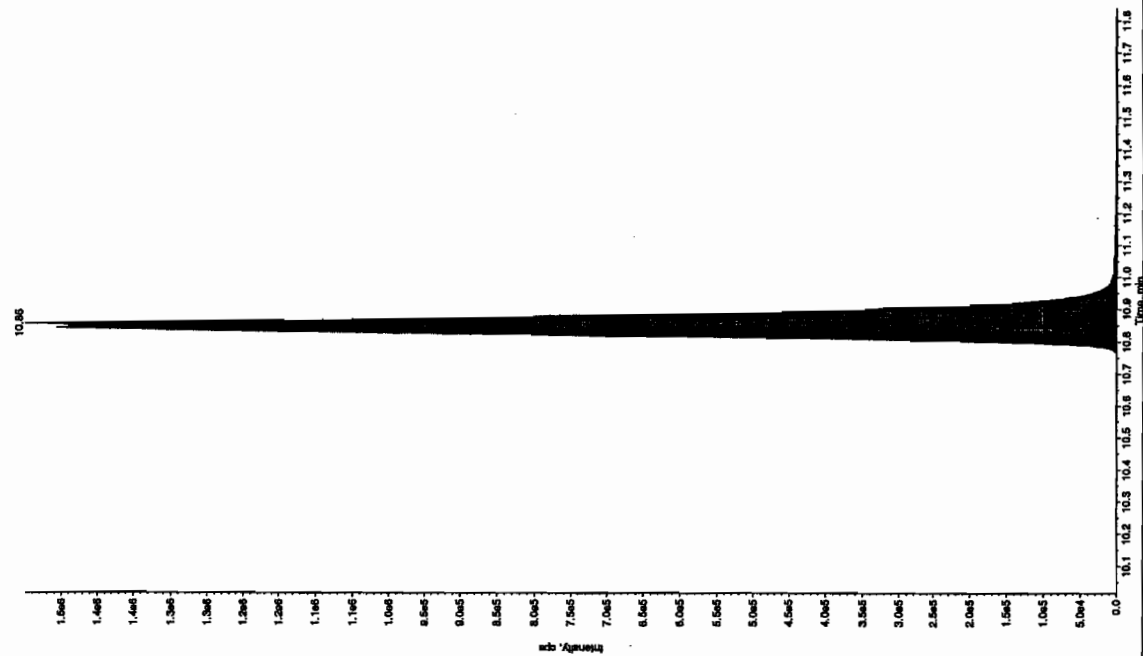
Sample Name: "WXX100310-25C0V" Sample ID: "111111" File: "EXS03100024.wif"  
Peak Name: "24-Diamino-5-norbornene" Mass(es): 166.046.0 amu  
Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500 ng/mL  
Calculated Conc: 519 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 9:32:36 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: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 5.49e+005 counts  
Height: 137506.027 cps  
Start Time: 5.32 min  
End Time: 5.66 min



Sample Name: "WXX100310-25C0V" Sample ID: "111111" File: "EXS03100024.wif"  
Peak Name: "24-Diamino-5-norbornene" Mass(es): 166.046.0 amu  
Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500 ng/mL  
Calculated Conc: 480 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 9:32:36 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 6.09e+006 counts  
Height: 1499399.048 cps  
Start Time: 10.7 min  
End Time: 11.1 min





**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100026.wiff

**Analysis Date:** 10-MAR-10 22:04

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	104	104	
2,6-Diamino-4-nitrotoluene	100	101	101	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	88.4	88	
TATB	100	91.2	91	
tris(o-cresyl) phosphate	100	98.2	98	

**Recovery Limits:**

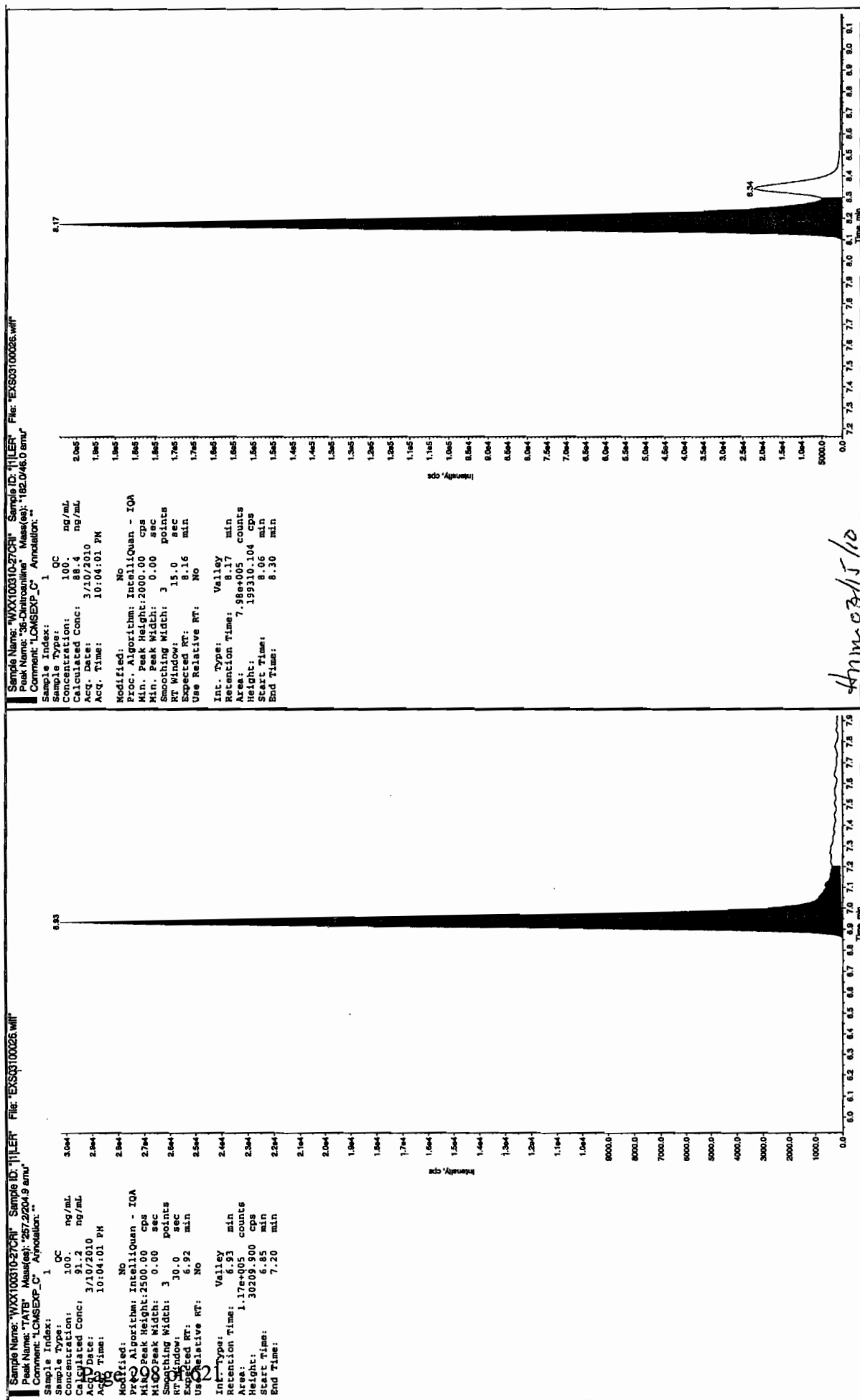
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

See 3/13/10



Amc 03/15/10

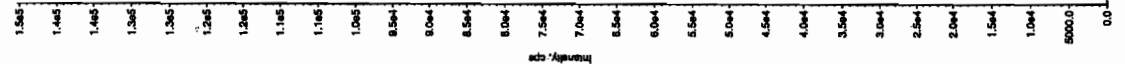
Sample Name: "WXX100310-27091" Sample ID: "111EP" File: "EXS03100026.wif"  
Peak Name: "24-Diamino-4-nitrofluorene" Mass(es): "162.1/151.9 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: OC  
Concentration: 50.0 ng/mL  
Calculated Conc: 50.0 ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 10:04:01 PM

Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 1460.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.34 min  
Area: 5.37e+005 counts  
Height: 14983.612 cps  
Start Time: 8.27 min  
End Time: 8.66 min



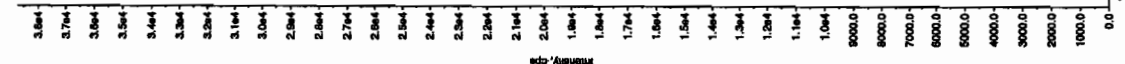
Sample Name: "WXX100310-27091" Sample ID: "111EP" File: "EXS03100026.wif"  
Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.0/165.0 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: OC  
Concentration: 100. ng/mL  
Calculated Conc: 101. ng/mL  
Acq. Date: 3/10/2010  
Acq. Time: 10:04:01 PM

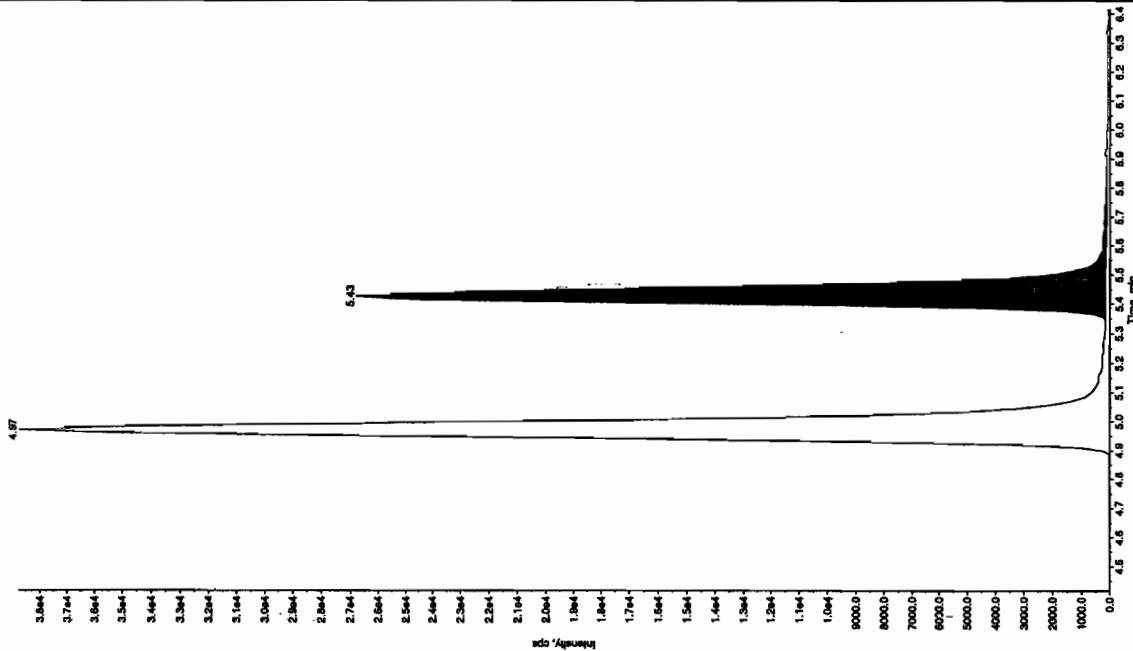
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 4.97 min  
Area: 1.55e+005 counts  
Height: 38699.741 cps  
Start Time: 4.88 min  
End Time: 5.25 min



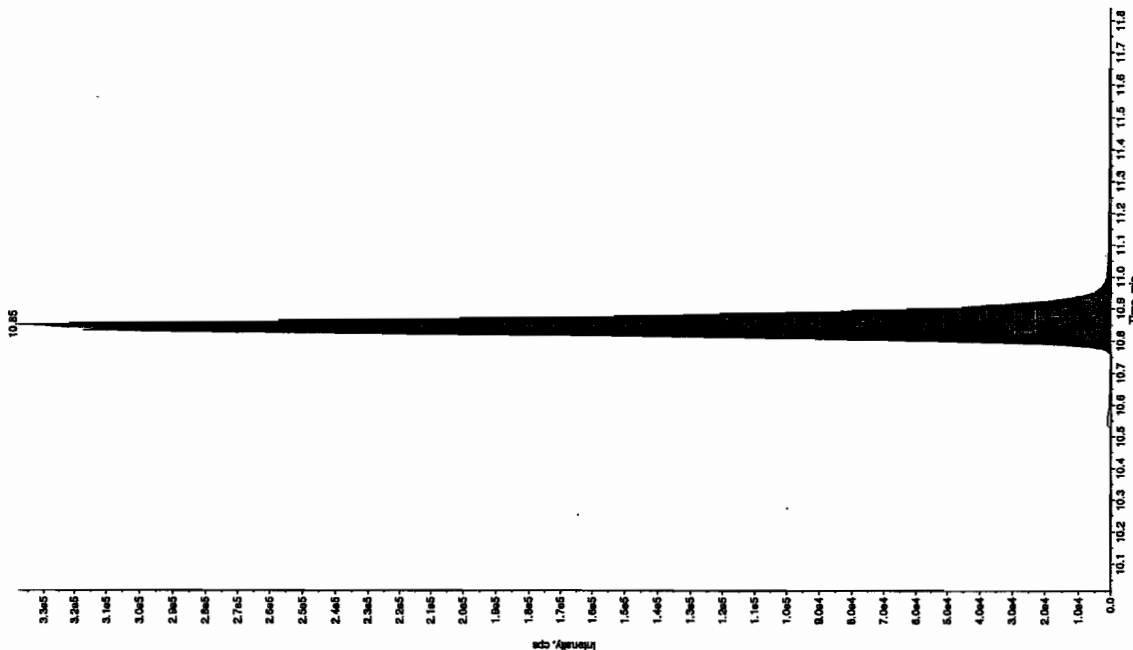
Sample Name: "WXX100310-270R" Sample ID: "111ER" File: "EX503100026.wif"  
Peak Name: "24-Diethyl-6-nitrofluorene" Mass(es): "166.0450 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 3/10/2010  
Acq. Date: 3/10/2010  
Acq. Time: 10:04:01 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: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 1.10e+005 counts  
Height: 26636.485 cps  
Start Time: 5.32 min  
End Time: 5.56 min



Sample Name: "WXX100310-270R" Sample ID: "111ER" File: "EX503100026.wif"  
Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "389.1910 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 3/10/2010  
Acq. Date: 3/10/2010  
Acq. Time: 10:04:01 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 1.36e+006 counts  
Height: 337527.466 cps  
Start Time: 10.7 min  
End Time: 11.2 min



7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1908

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100037.wiff

Analysis Date: 11-MAR-10 00:56

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	546	109	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	265	106	
3,5-Dinitroaniline	500	561	112	
TATB	500	471	94	
tris(o-cresyl) phosphate	500	478	96	

Recovery Limits:

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

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

See 3/13/10

Sample Name: "WXX100310-2800V" Sample ID: "11LRF" File: "EXS03100037.wif"

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

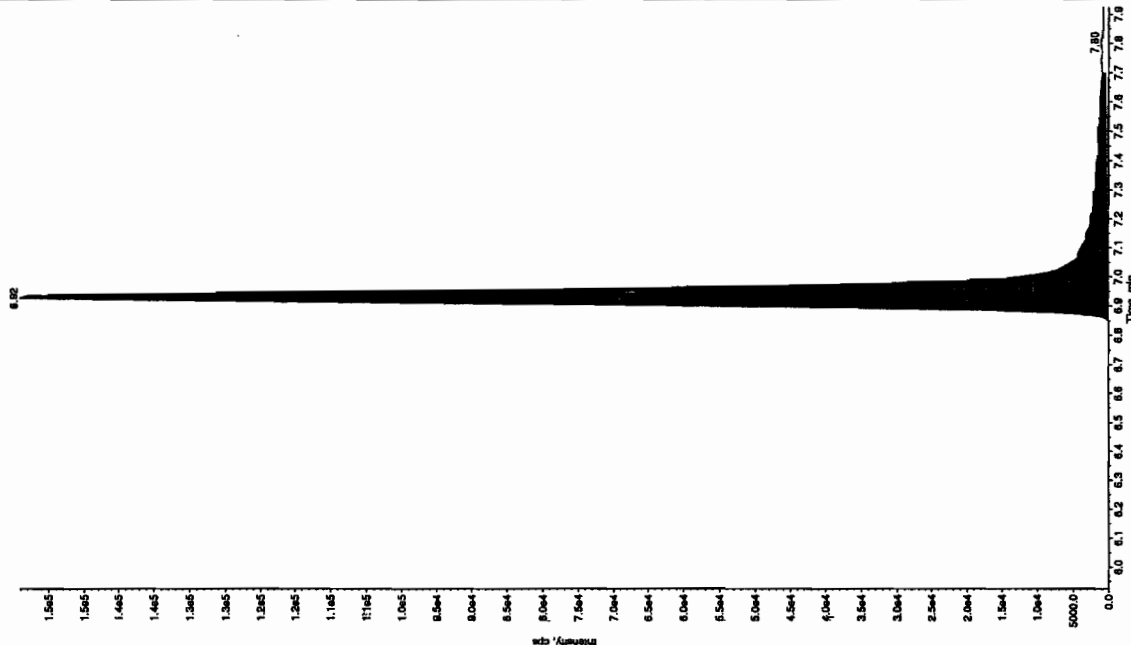
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 471. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:56:47 AM

Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 250.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 30.0 points  
RT Window: 6.92 sec  
Expected RT: 6.92 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 6.92 min  
Area: 6.69e+005 counts  
Height: 154032.074 cps  
Start Time: 6.83 min  
End Time: 7.70 min



Sample Name: "WXX100310-2800V" Sample ID: "11LRF" File: "EXS03100037.wif"

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

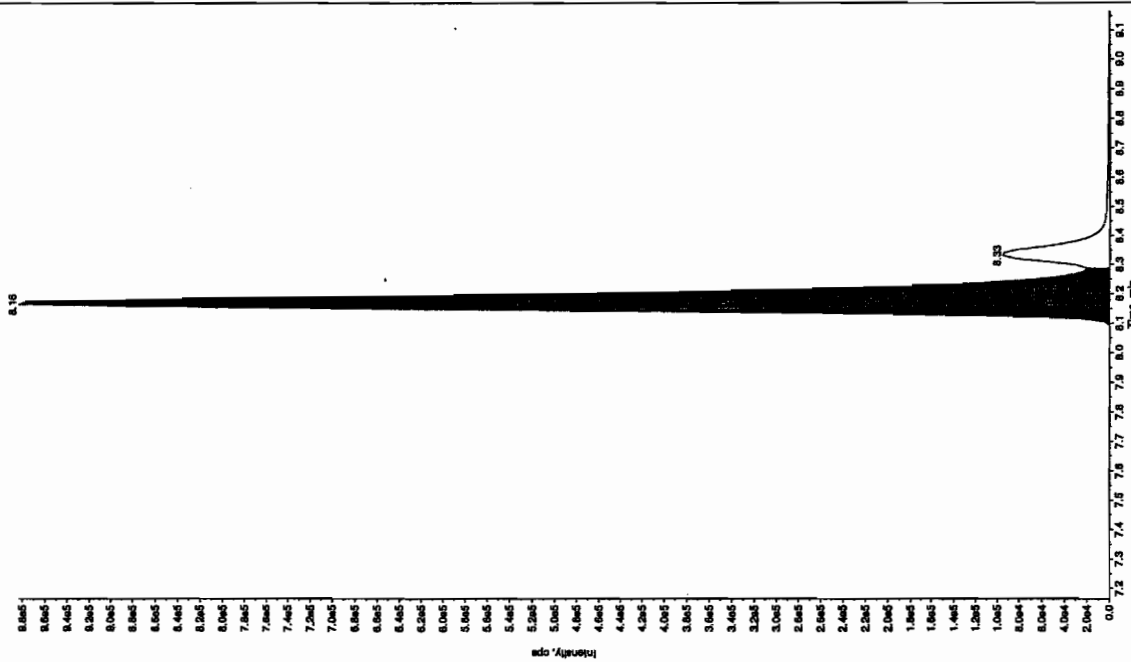
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 561. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 12:56:47 AM

Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 30.0 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.16 min  
Area: 3.94e+006 counts  
Height: 983121.094 cps  
Start Time: 8.06 min  
End Time: 8.29 min

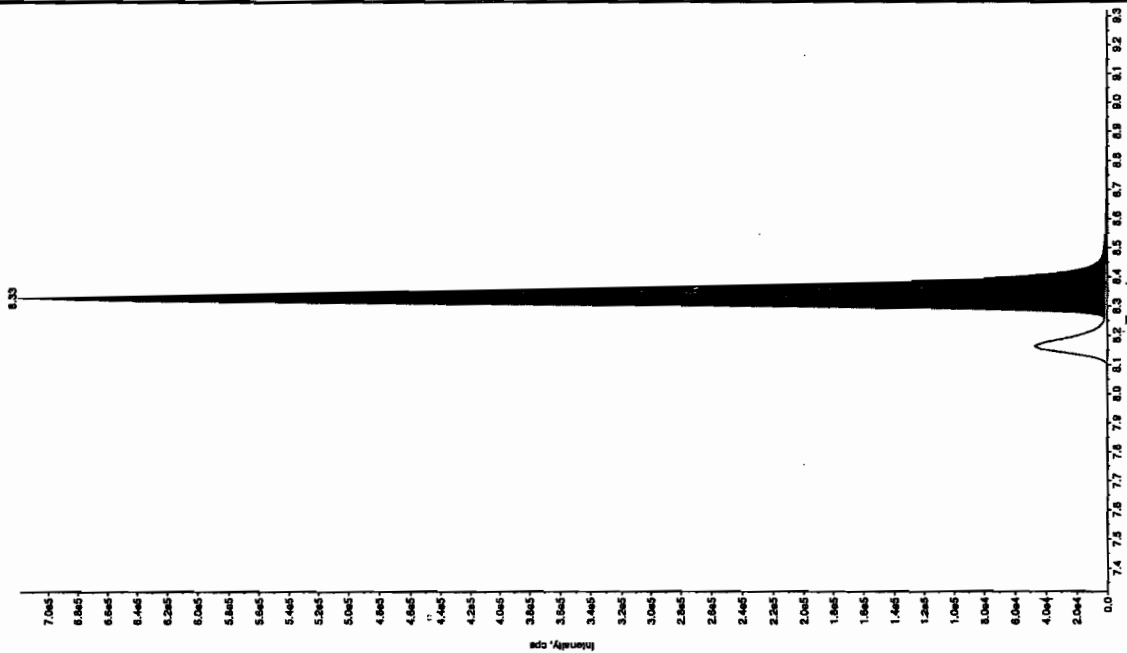


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

See 3/13/10

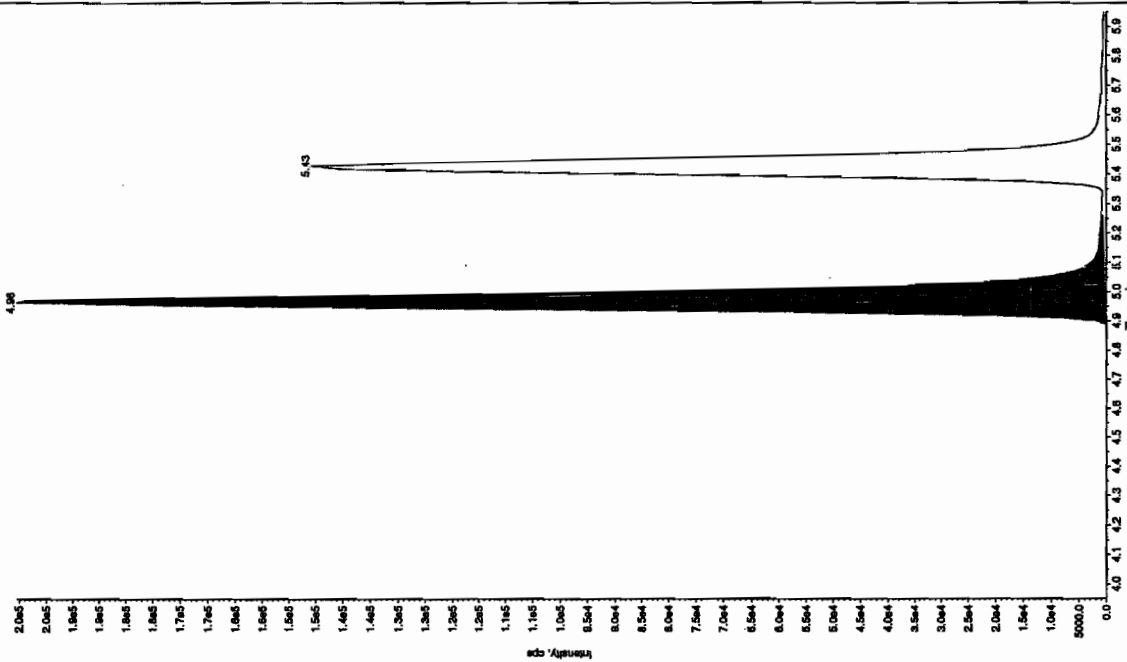
Sample Name: "WXX100310-26CCV" Sample ID: "HLEP" File: "EXS03100037.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250. ng/mL  
 Calculated Conc: 253. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:56:47 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.67e+005 counts  
 Height: 717082.520 cps  
 Start Time: 8.28 min  
 End Time: 8.69 min



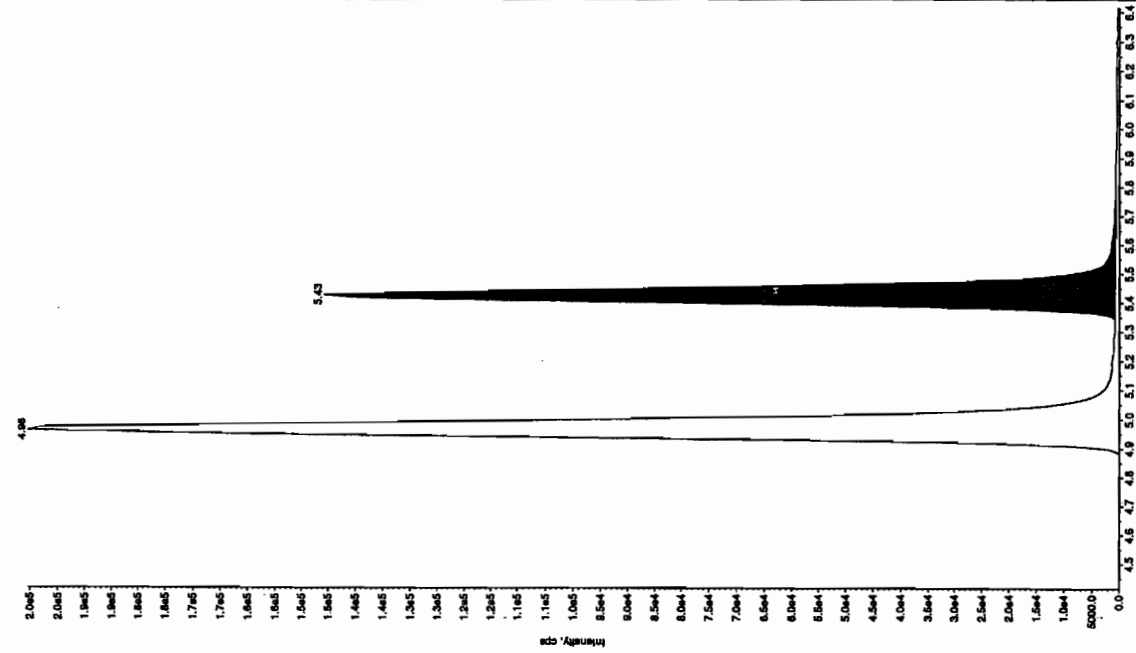
Sample Name: "WXX100310-26CCV" Sample ID: "HLEP" File: "EXS03100037.wif"  
 Peak Name: "25-Dinitro-4-methylfluorene" Mass(es): "182.0/146.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 531. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:56:47 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 6.14e+005 counts  
 Height: 200217.407 cps  
 Start Time: 4.87 min  
 End Time: 5.26 min



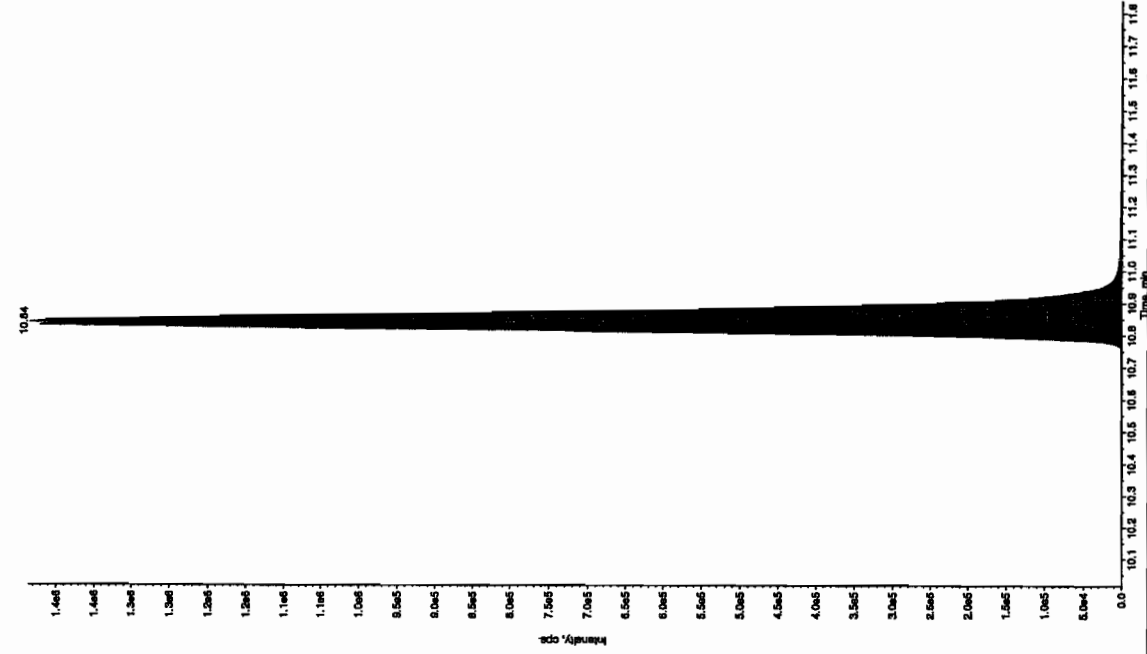
Sample Name: "WXX100310-2603V" Sample ID: "JLPER" File: "EX03100037.wif"  
 Peak Name: "24-Dienio-6-nitroindene" Mass(es): "160.046.0 amu"  
 Comment: "LCMSDEP\_O" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 546. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:56:47 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 350.09 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.778±0.05 min  
 Peak Height: 144970.825 cps  
 Start Time: 5.33 min  
 End Time: 5.86 min



Sample Name: "WXX100310-2603V" Sample ID: "JLPER" File: "EX03100037.wif"  
 Peak Name: "24-Dienio-6-nitroindene" Mass(es): "389.191.0 amu"  
 Comment: "LCMSDEP\_O" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 478. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:56:47 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: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Peak Height: 6.07e+006 counts  
 Start Time: 10.7 min  
 End Time: 11.2 min





**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100039.wiff

**Analysis Date:** 11-MAR-10 01:28

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,6-Diamino-4-nitrotoluene	100	107	107	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	93.6	94	
tris(o-cresyl) phosphate	100	95.4	95	
2,4-Diamino-6-nitrotoluene	100	108	108	

**Recovery Limits:**

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

2,4-Diamino-6-nitrotoluene 50-150%

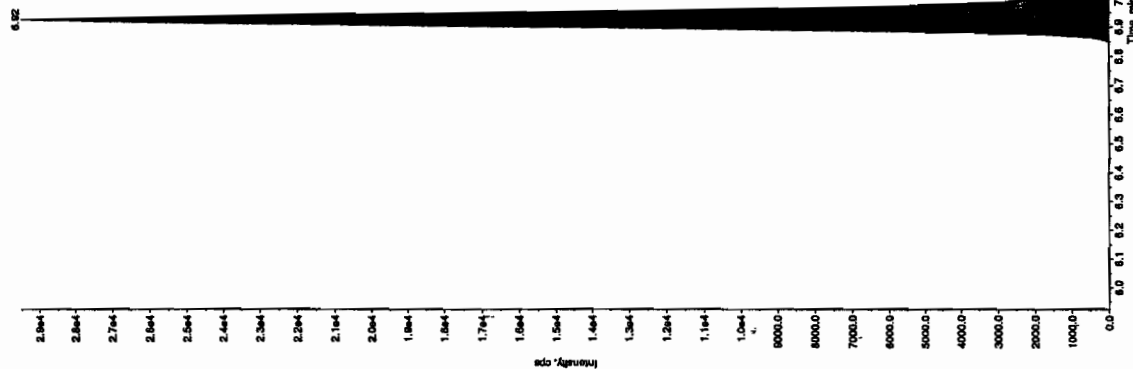
Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

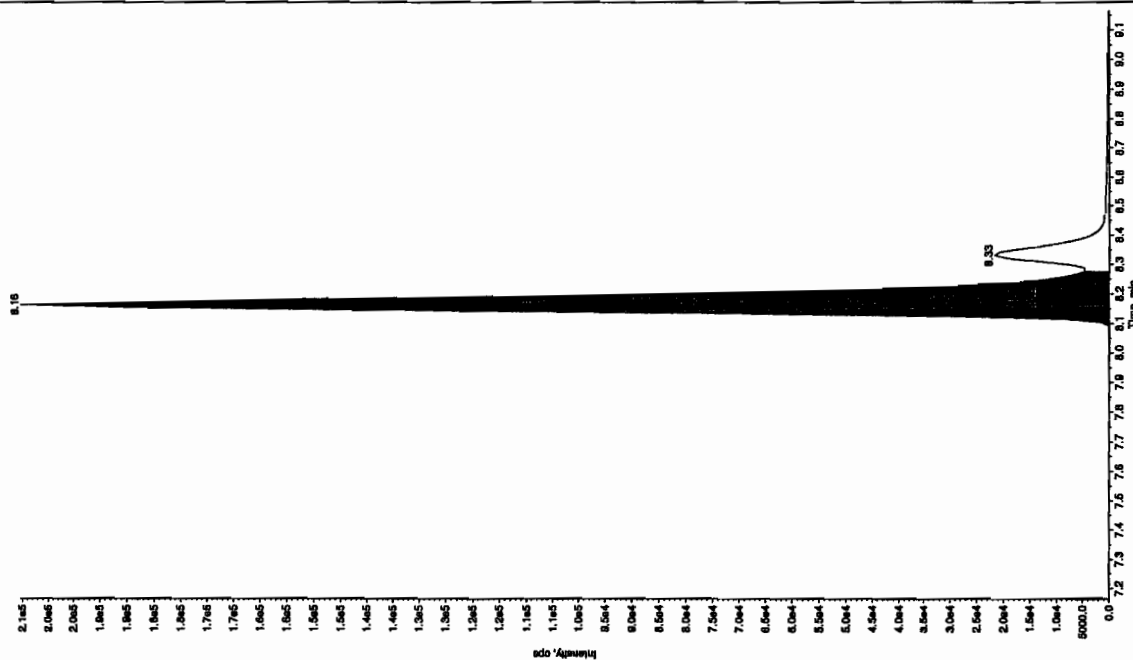
Sample Name: "WXX100310-27CRL" Sample ID: "11LER" File: "EXS03100039.wiff"  
Peak Name: "TATB" Mass(es): "257.2204,9 amu"  
Comment: "1 CIMS EXP C" Annotation: ""

Sample Index:	1	OC	ng/mL
Concentration:	93.6		ng/mL
Calculated Conc:	100		
Acq Date:	3/11/2010		
Acq Time:	1:28:11 AM		
Mod:	No		
Mod 2:	No		
Mod 3:	No		
Mod 4:	No		
Mod 5:	No		
Mod 6:	No		
Mod 7:	No		
Mod 8:	No		
Mod 9:	No		
Mod 10:	No		
Mod 11:	No		
Mod 12:	No		
Mod 13:	No		
Mod 14:	No		
Mod 15:	No		
Mod 16:	No		
Mod 17:	No		
Mod 18:	No		
Mod 19:	No		
Mod 20:	No		
Mod 21:	No		
Mod 22:	No		
Mod 23:	No		
Mod 24:	No		
Mod 25:	No		
Mod 26:	No		
Mod 27:	No		
Mod 28:	No		
Mod 29:	No		
Mod 30:	No		
Mod 31:	No		
Mod 32:	No		
Mod 33:	No		
Mod 34:	No		
Mod 35:	No		
Mod 36:	No		
Mod 37:	No		
Mod 38:	No		
Mod 39:	No		
Mod 40:	No		
Mod 41:	No		
Mod 42:	No		
Mod 43:	No		
Mod 44:	No		
Mod 45:	No		
Mod 46:	No		
Mod 47:	No		
Mod 48:	No		
Mod 49:	No		
Mod 50:	No		
Mod 51:	No		
Mod 52:	No		
Mod 53:	No		
Mod 54:	No		
Mod 55:	No		
Mod 56:	No		
Mod 57:	No		
Mod 58:	No		
Mod 59:	No		
Mod 60:	No		
Mod 61:	No		
Mod 62:	No		
Mod 63:	No		
Mod 64:	No		
Mod 65:	No		
Mod 66:	No		
Mod 67:	No		
Mod 68:	No		
Mod 69:	No		
Mod 70:	No		
Mod 71:	No		
Mod 72:	No		
Mod 73:	No		
Mod 74:	No		
Mod 75:	No		
Mod 76:	No		
Mod 77:	No		
Mod 78:	No		
Mod 79:	No		
Mod 80:	No		
Mod 81:	No		
Mod 82:	No		
Mod 83:	No		
Mod 84:	No		
Mod 85:	No		
Mod 86:	No		
Mod 87:	No		
Mod 88:	No		
Mod 89:	No		
Mod 90:	No		
Mod 91:	No		
Mod 92:	No		
Mod 93:	No		
Mod 94:	No		
Mod 95:	No		
Mod 96:	No		
Mod 97:	No		
Mod 98:	No		
Mod 99:	No		
Mod 100:	No		
Mod 101:	No		
Mod 102:	No		
Mod 103:	No		
Mod 104:	No		
Mod 105:	No		
Mod 106:	No		
Mod 107:	No		
Mod 108:	No		
Mod 109:	No		
Mod 110:	No		
Mod 111:	No		
Mod 112:	No		
Mod 113:	No		
Mod 114:	No		
Mod 115:	No		
Mod 116:	No		
Mod 117:	No		
Mod 118:	No		



Sample Name: "WXX100310-27C1" Sample ID: "11ER" File: "EXS03100039.wiff"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/45.0 amu"  
Comment: "LCMSEXP C" Annotation: ""

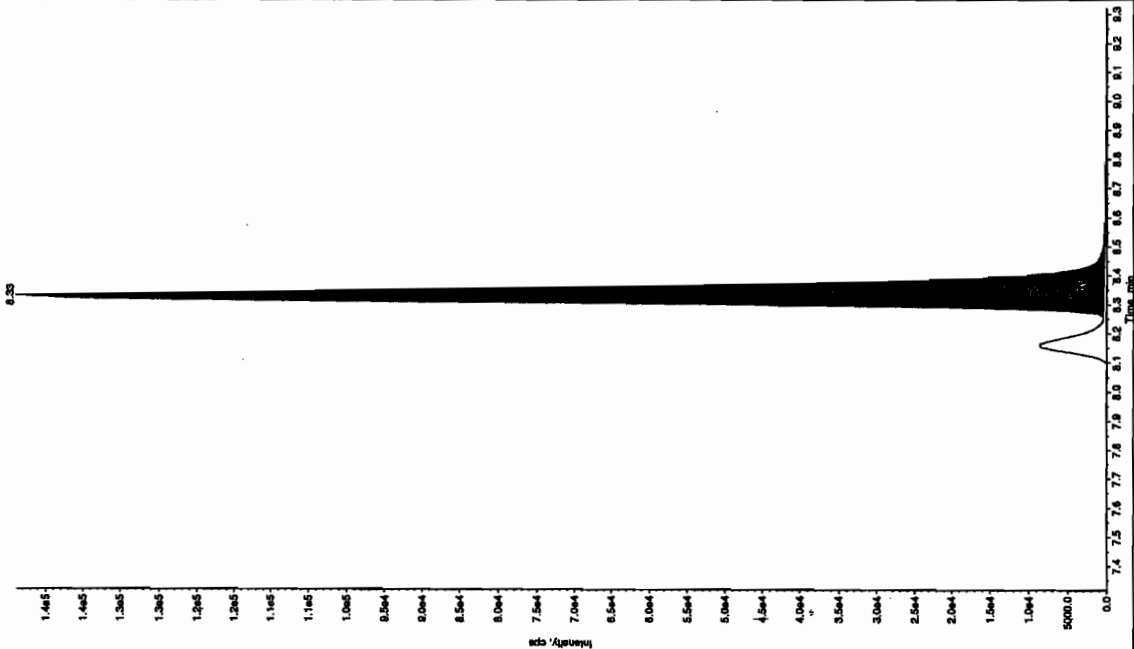
Sample Index:	1	QC	ng/mL
Sample Type:			ng/mL
Concentration:	87.8		
Calculated Conc:	100.0		
Acq. Dates:	3/11/2010		
Acq. Time:	1:28:11 AM		
Modified:	NO		
Proc. Algorithm:	IntelliQuan - IQA		
Min. Peak Height:	2000.00	cps	
Min. Peak Width:	0.00	sec	
Smoothing Width:	3	points	
Roll Window:	15.0	sec	
Expected RT:	8.16	min	
Use Relative RT:	NO		
Int. Type:	Valley		
Retention Time:	8.16	min	
Area:	7.94e+005	counts	
Height:	20513.389	cps	
Start Time:	8.07	min	
End Time:	8.28	min	



Hum. 03/15/10

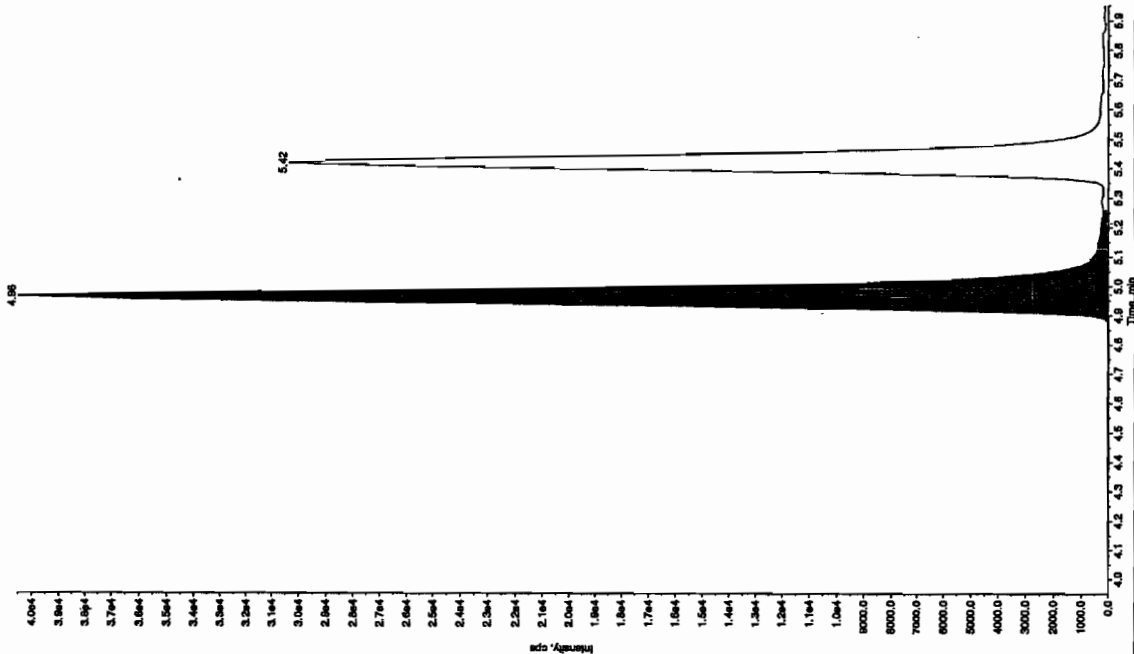
Sample Name: "WXX100310-27C01" Sample ID: "111ER" File: "EX503100039.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 50.0 ng/mL  
 Calculated Conc: 50.3 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 1:28:11 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: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 5.39e+005 counts  
 Height: 14335.968 cps  
 Start Time: 8.26 min  
 End Time: 8.36 min



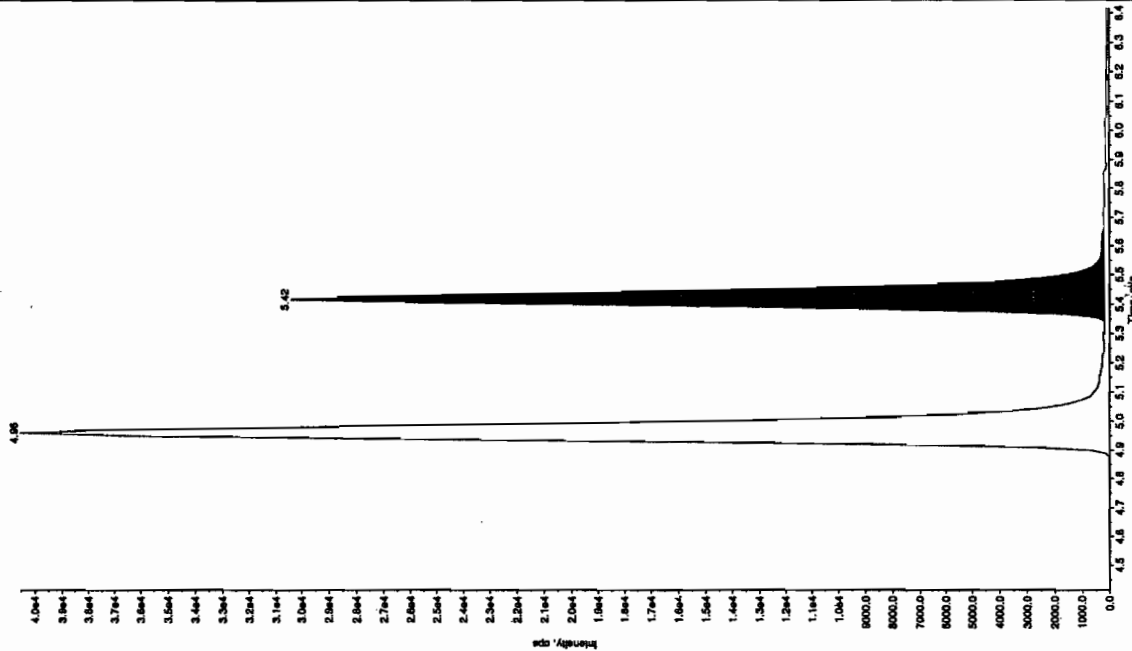
Sample Name: "WXX100310-27C01" Sample ID: "111ER" File: "EX503100039.wif"  
 Peak Name: "26-Diarno-4-nitrofluorene" Mass(es): "166.0/166.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 107. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 1:28:11 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 1.64e+005 counts  
 Height: 40503.166 cps  
 Start Time: 4.83 min  
 End Time: 5.26 min



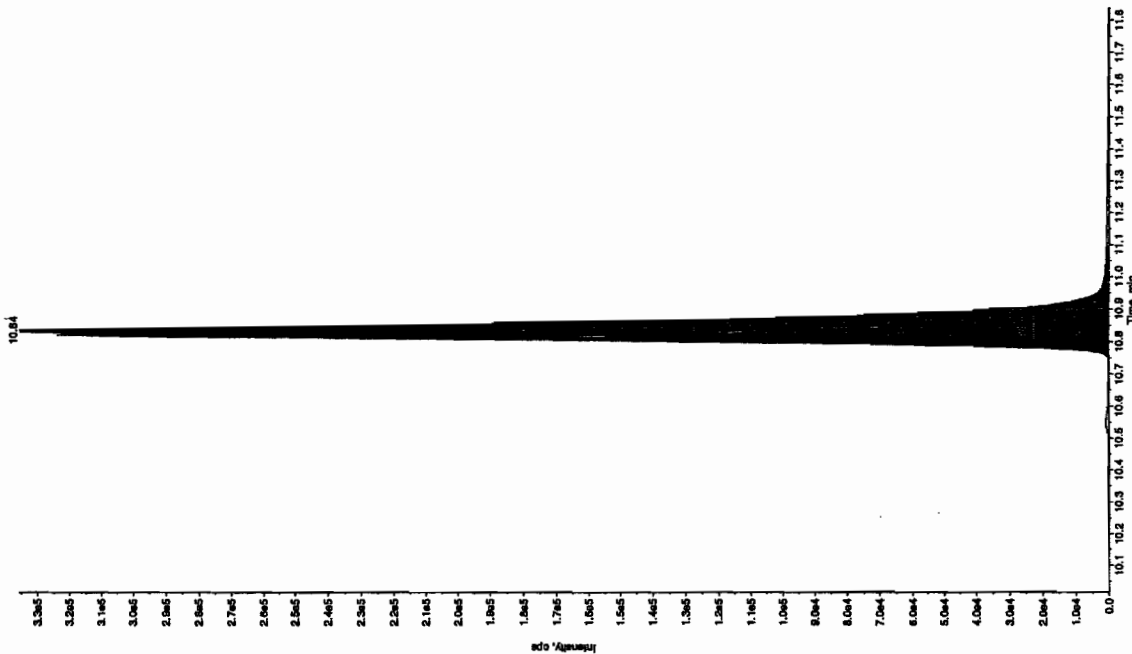
Sample Name: "WXX100310-27CR" Sample ID: "11LRF" File: "EX503100039.wif"  
 Peak Name: "24-Dienio-6-nitroloano" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 108. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 1:28:11 AM  
 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: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.42 min  
 Area: 1.14e+005 counts  
 Height: 30214.819 cps  
 Start Time: 5.32 min  
 End Time: 5.66 min



Sample Name: "WXX100310-27CR" Sample ID: "11LRF" File: "EX503100039.wif"  
 Peak Name: "Ino(o-nonyl) phosphate" Mass(es): "389.191.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 95.4 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 1:28:11 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 1.32e+006 counts  
 Height: 335501.434 cps  
 Start Time: 10.7 min  
 End Time: 11.1 min



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100044.wiff

**Analysis Date:** 11-MAR-10 02:46

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	566	113	
2,6-Diamino-4-nitrotoluene	500	543	109	
3,4-Dinitrotoluene	250	268	107	
3,5-Dinitroaniline	500	562	112	
TATB	500	493	99	
tris(o-cresyl) phosphate	500	470	94	

**Recovery Limits:**

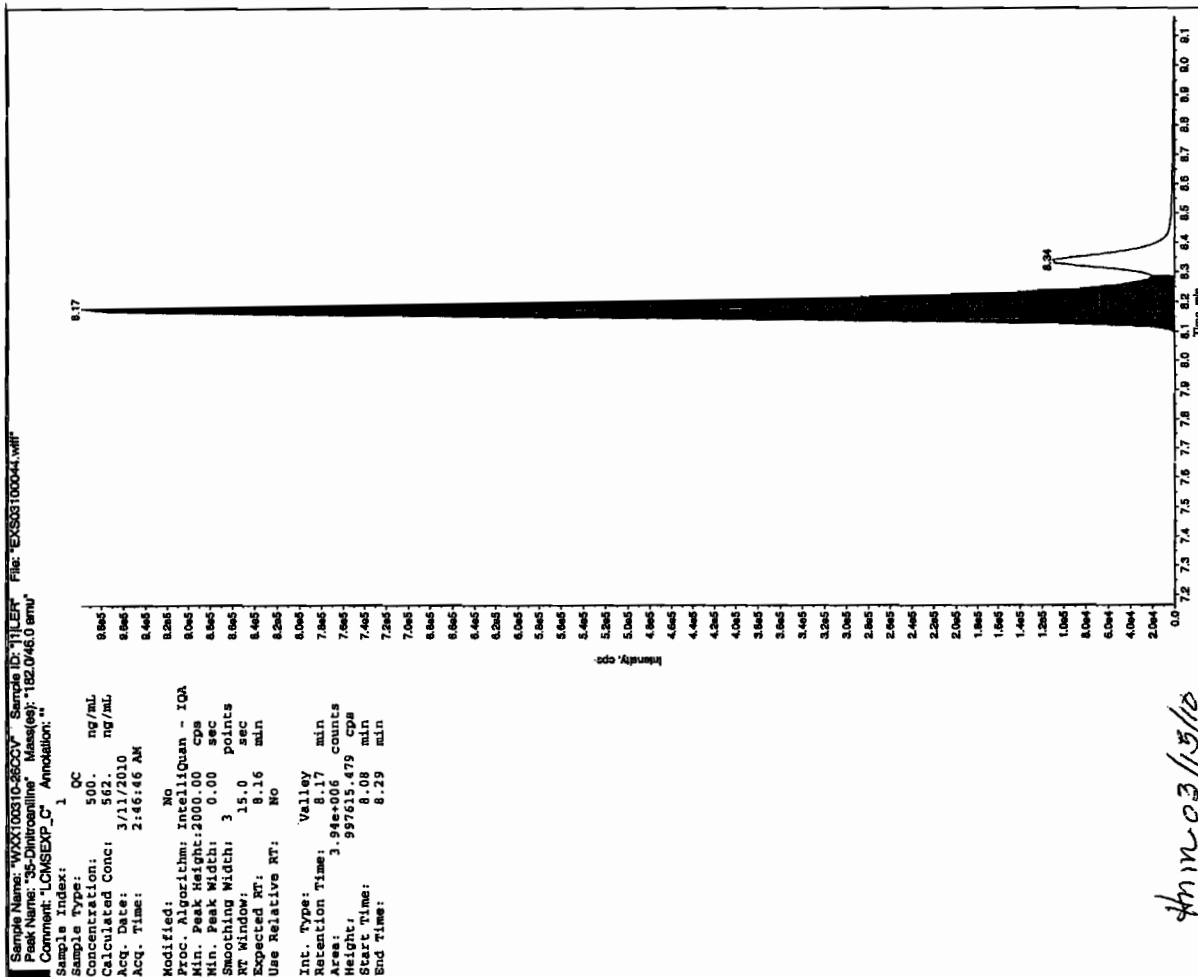
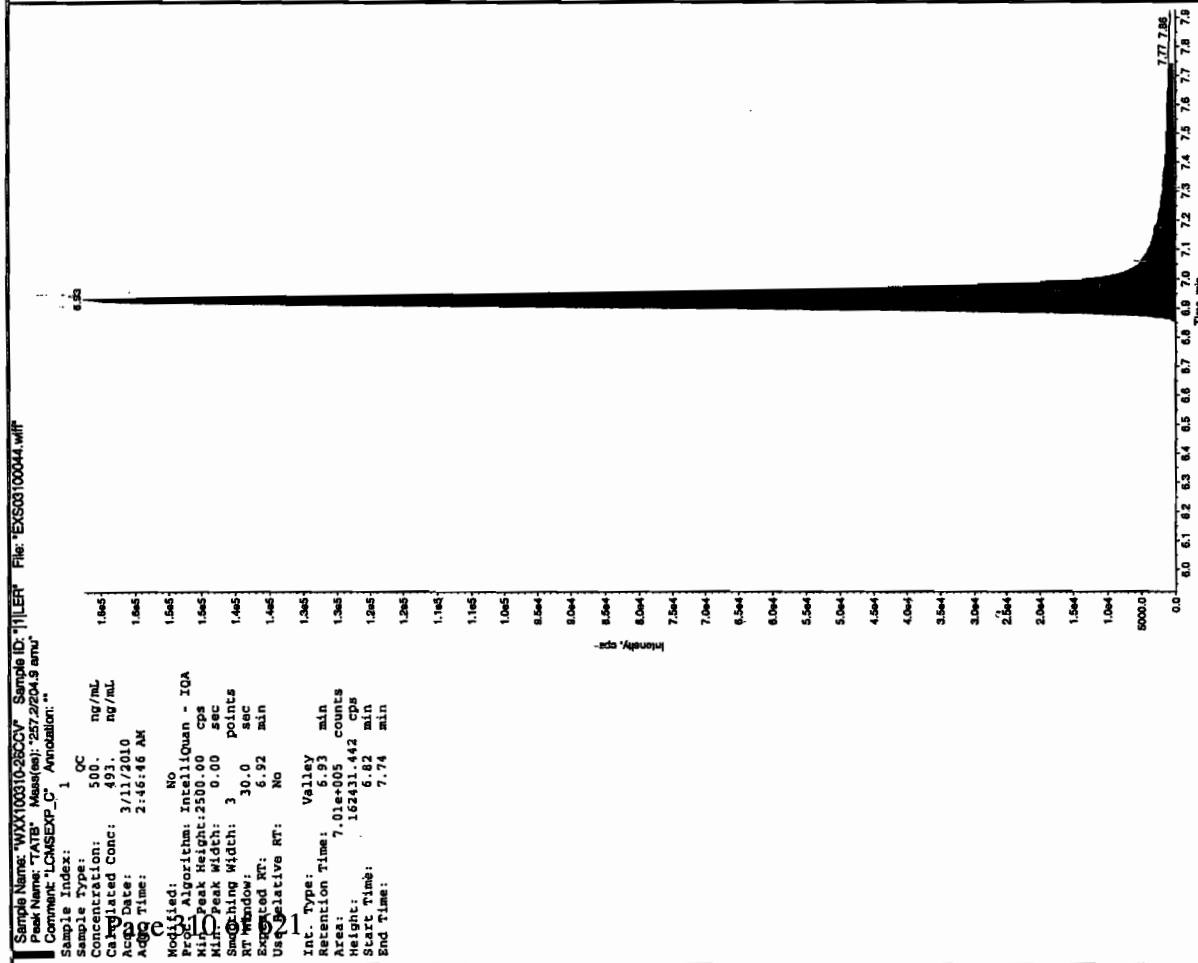
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

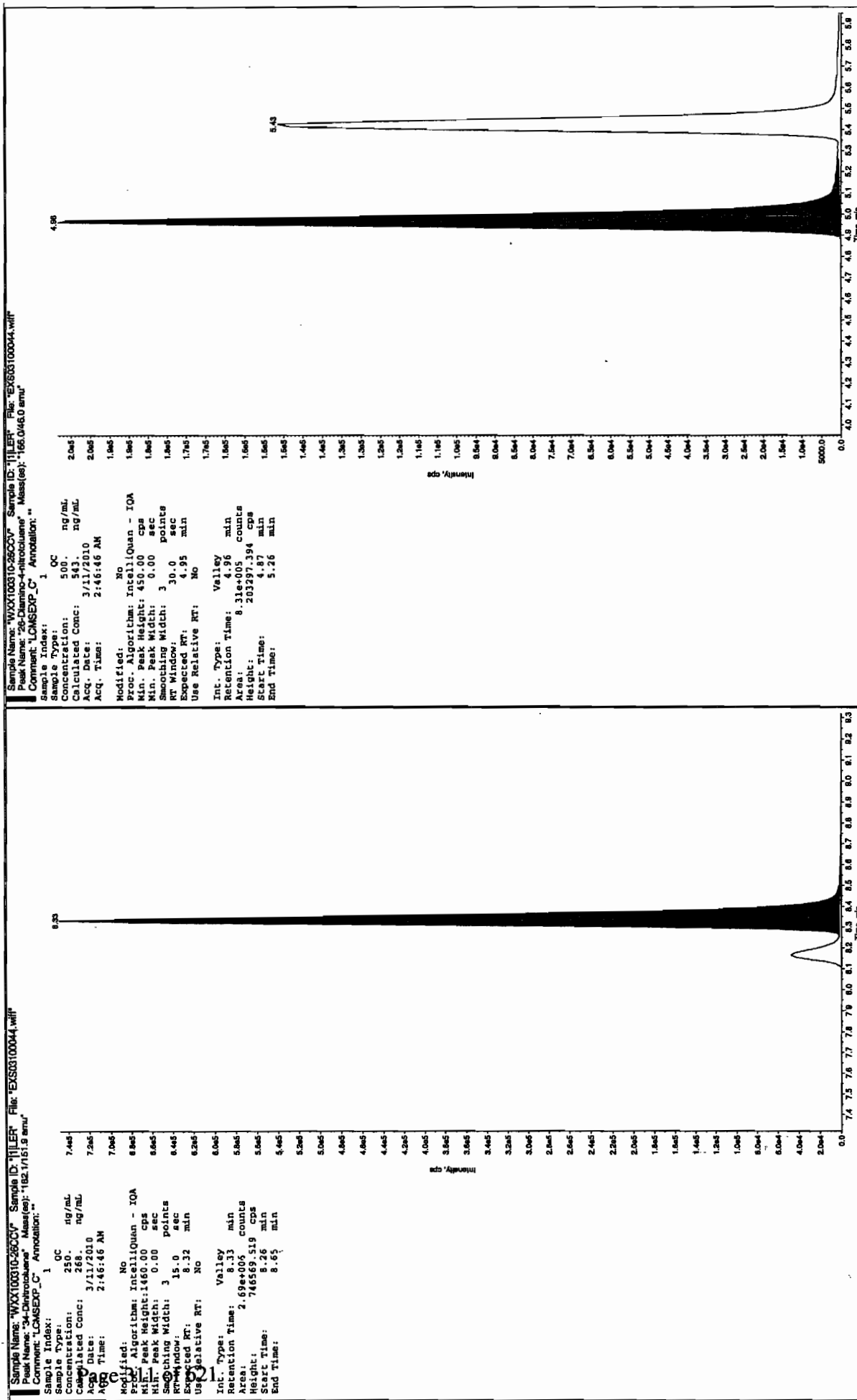
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

202 3/14/10

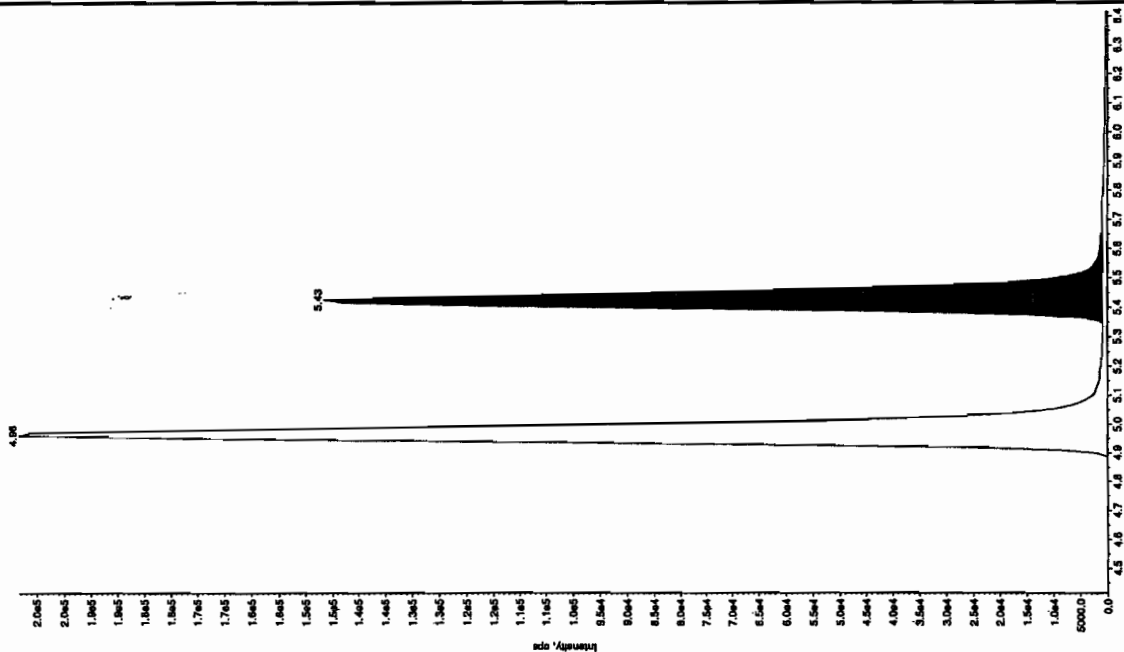


4/11/10 3/15/10



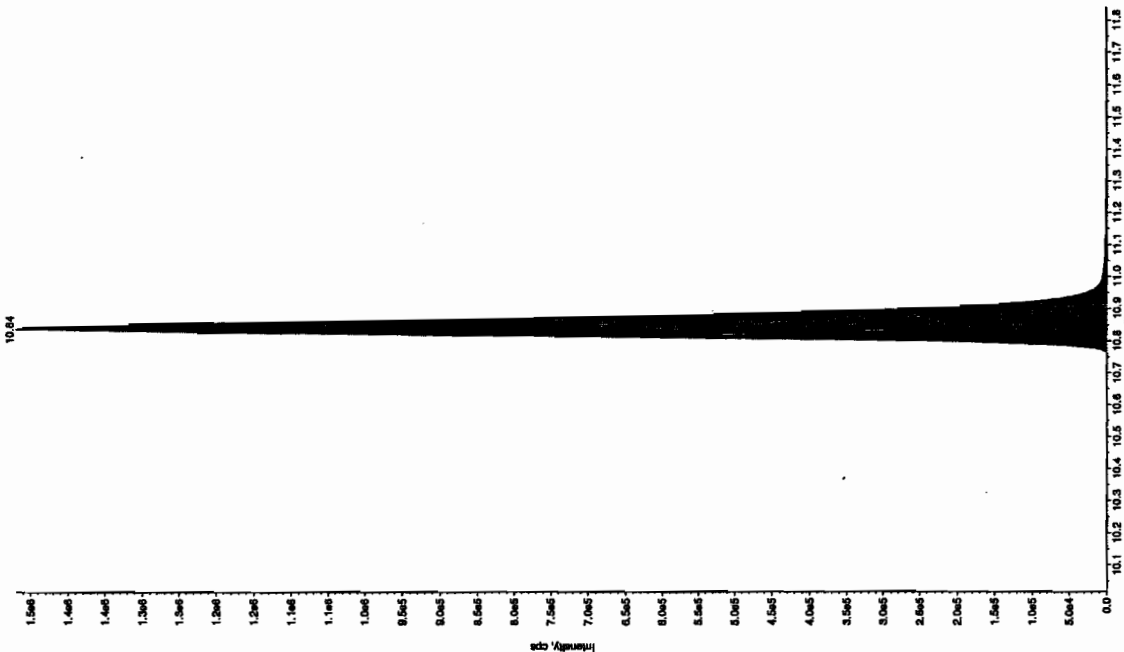
Sample Name: "WXX100310-250CV" Sample ID: "111ER" File: "EXS03100044.wif"  
Peak Name: "24-Diamino-8-ribitoluene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 566. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 2:46:46 AM  
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: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 5.98e+005 counts  
Height: 145700.638 cps  
Start Time: 5.33 min  
End Time: 5.57 min



Sample Name: "WXX100310-250CV" Sample ID: "111ER" File: "EXS03100044.wif"  
Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "369.191.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 470. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 2:46:46 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 5.97e+006 counts  
Height: 146909.424 cps  
Start Time: 10.7 min  
End Time: 11.2 min





**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100046.wiff

**Analysis Date:** 11-MAR-10 03:18

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	107	107	
2,6-Diamino-4-nitrotoluene	100	106	106	
3,4-Dinitrotoluene	50	50.3	101	
3,5-Dinitroaniline	100	91	91	
TATB	100	98.2	98	
tris(o-cresyl) phosphate	100	94.3	94	

**Recovery Limits:**

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

2,4-Diamino-6-nitrotoluene    50-150%

Other Target Analytes        70-130%

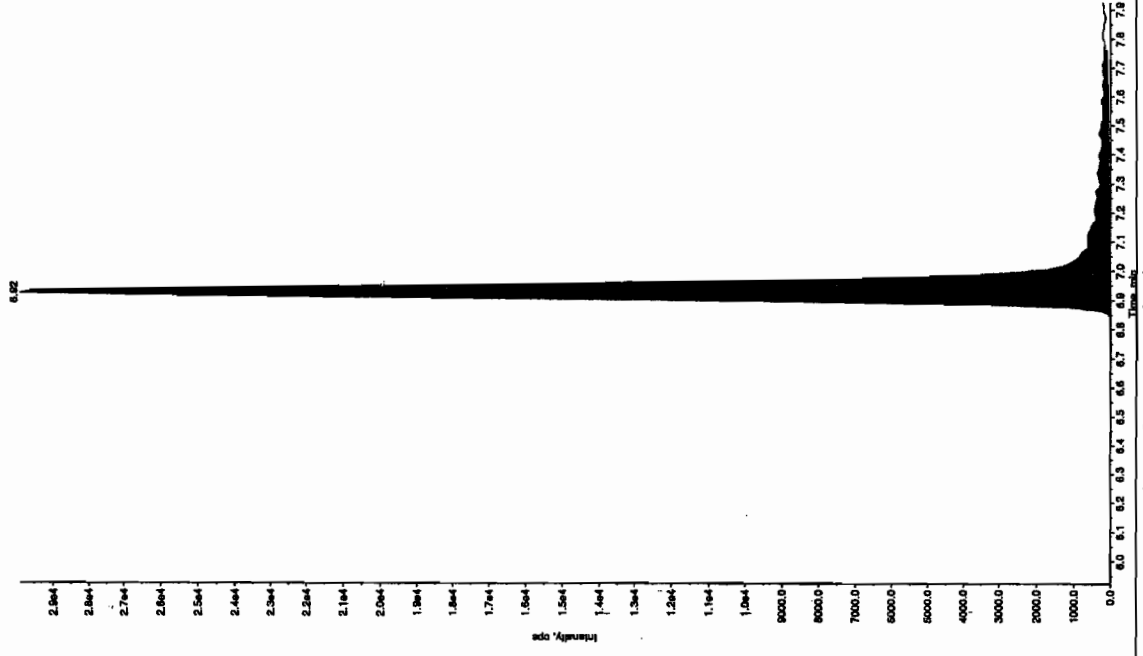
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

264 3/14/10

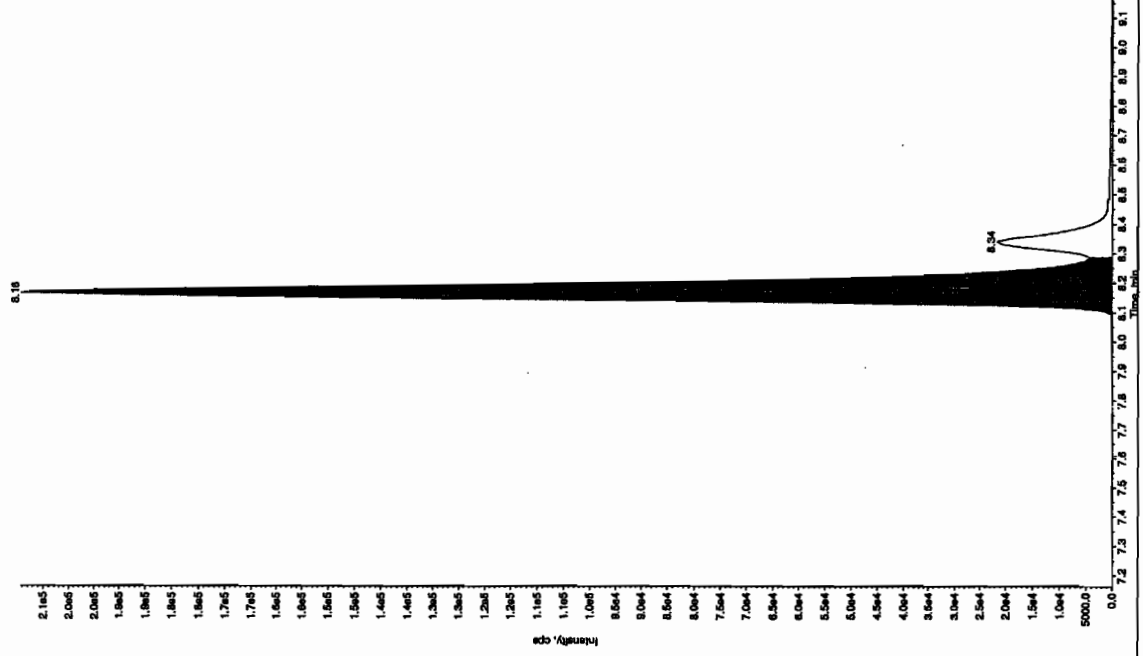
Sample Name: "WXX100310-2703" Sample ID: "111ER" File: "EXS03100046.wif"  
Peak Name: "TATB" Mass(es): "267.2204.8 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 98.2 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:18:11 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2500.00 cps  
Min. Peak Width: 3.00 sec  
Sampling Width: 30.0 points  
RT Window: 15.0 sec  
Expected RT: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.92 min  
Area: 1.28e+005 counts  
Height: 29875.080 cps  
Start Time: 6.79 min  
End Time: 7.76 min

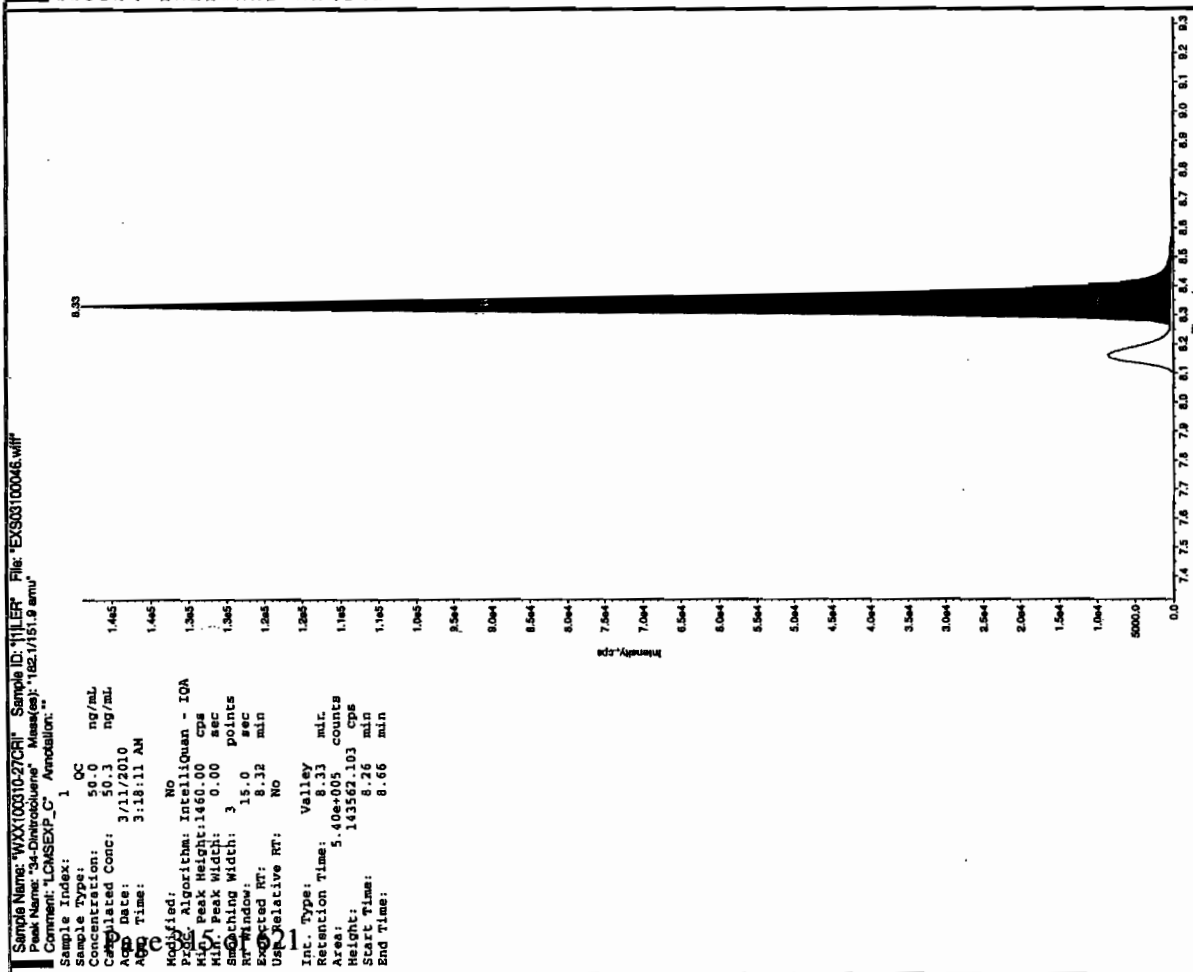
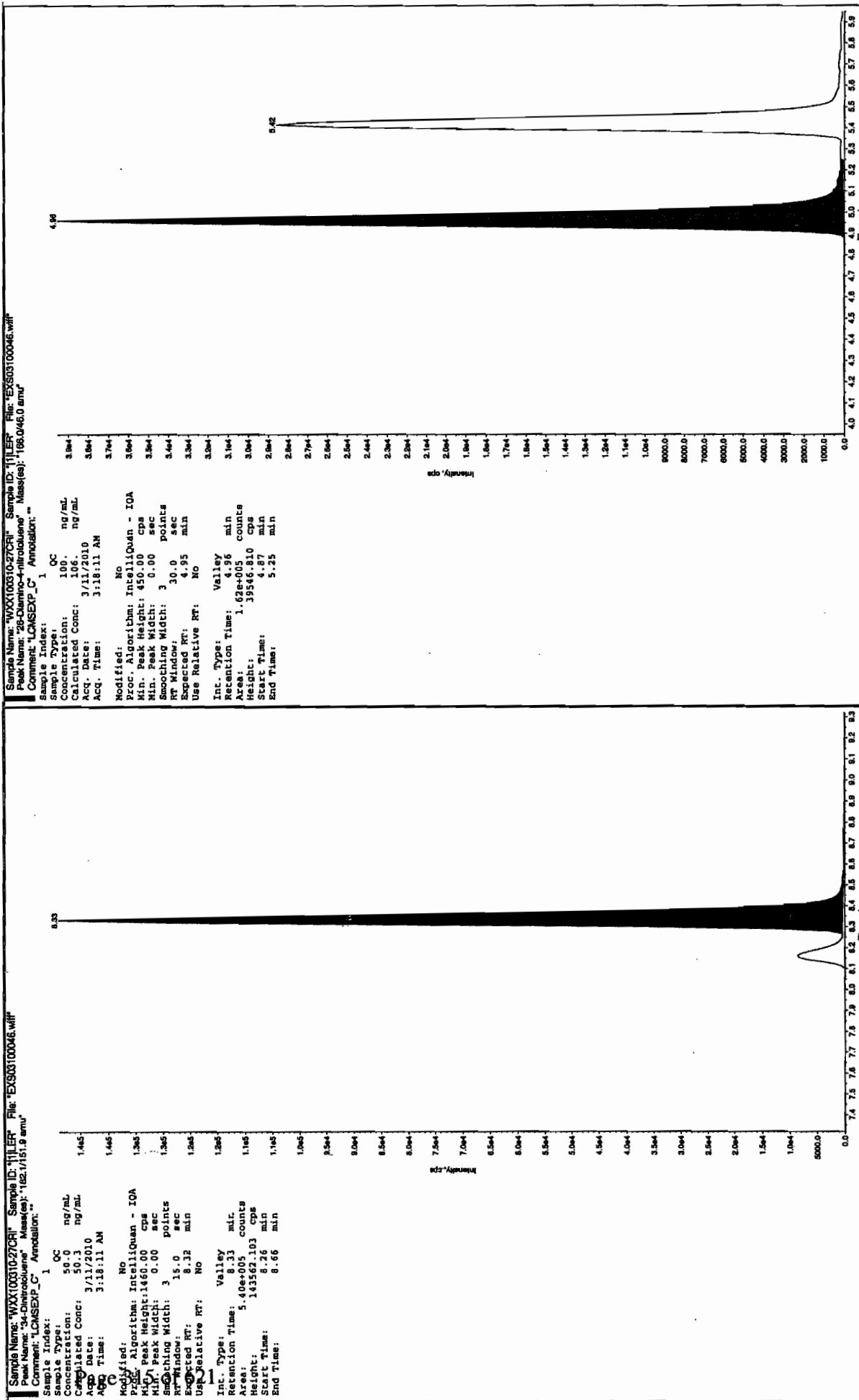


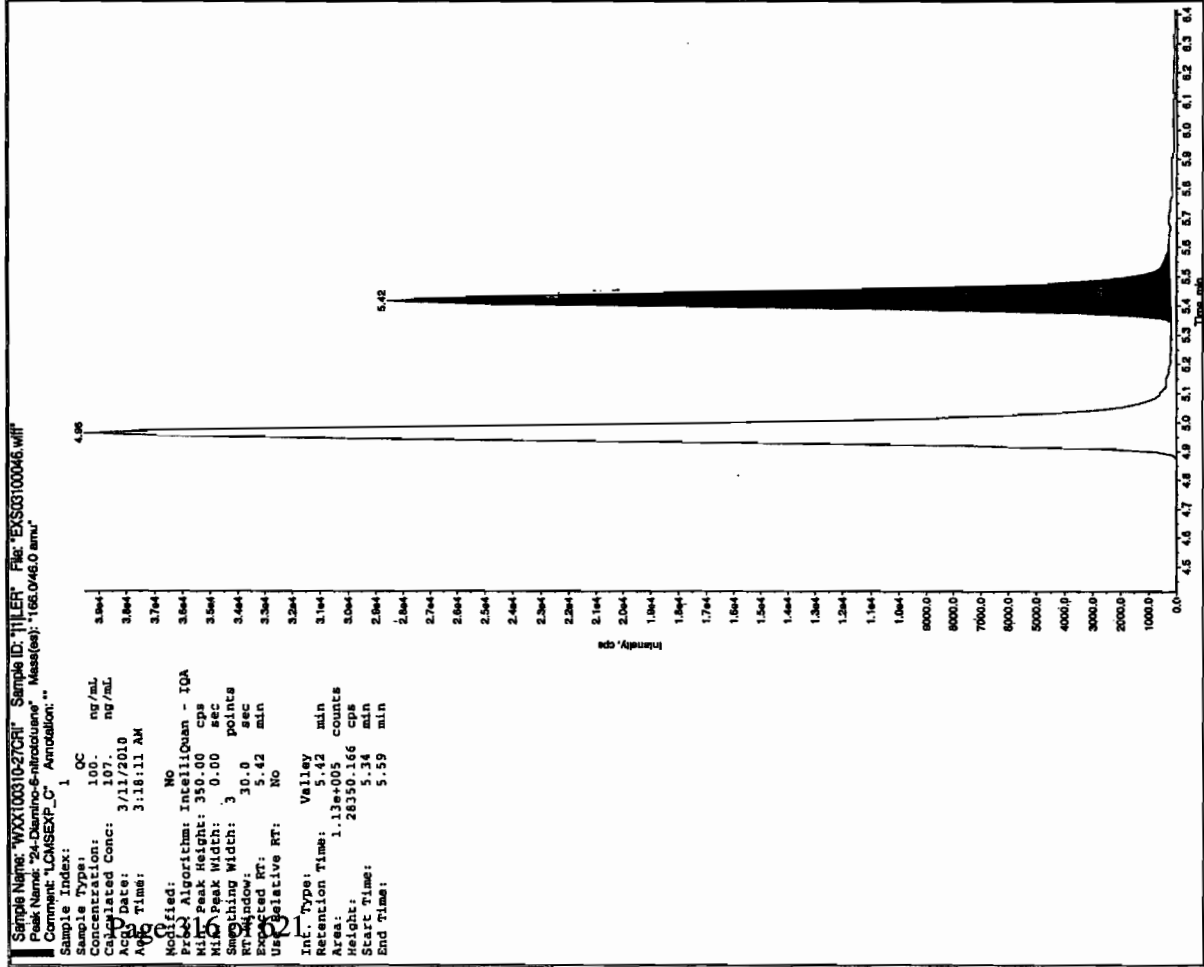
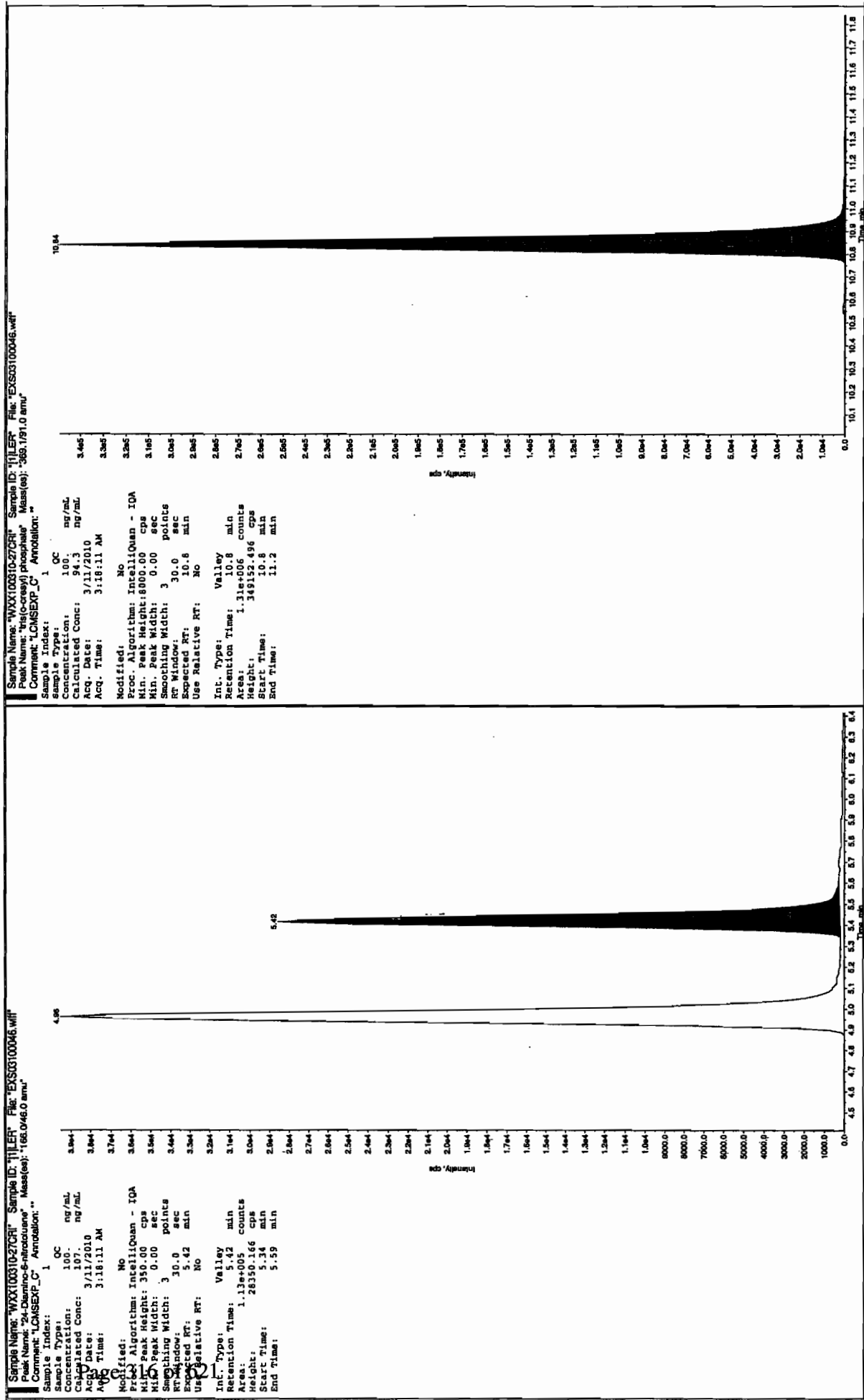
Sample Name: "WXX100310-2703" Sample ID: "111ER" File: "EXS03100046.wif"  
Peak Name: "5S-Dextrorhamphine" Mass(es): "182.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 91.0 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:18:11 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 3.00 sec  
Sampling Width: 30.0 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.16 min  
Area: 8.16e+005 counts  
Height: 209255.585 cps  
Start Time: 8.05 min  
End Time: 8.29 min



4996 03/15/10





\*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):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100055.wiff

**Analysis Date:** 11-MAR-10 05:39

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	576	115	
2,6-Diamino-4-nitrotoluene	500	535	107	
3,4-Dinitrotoluene	250	266	106	
3,5-Dinitroaniline	500	568	114	
TATB	500	489	98	
tris(o-cresyl) phosphate	500	491	98	

**Recovery Limits:**

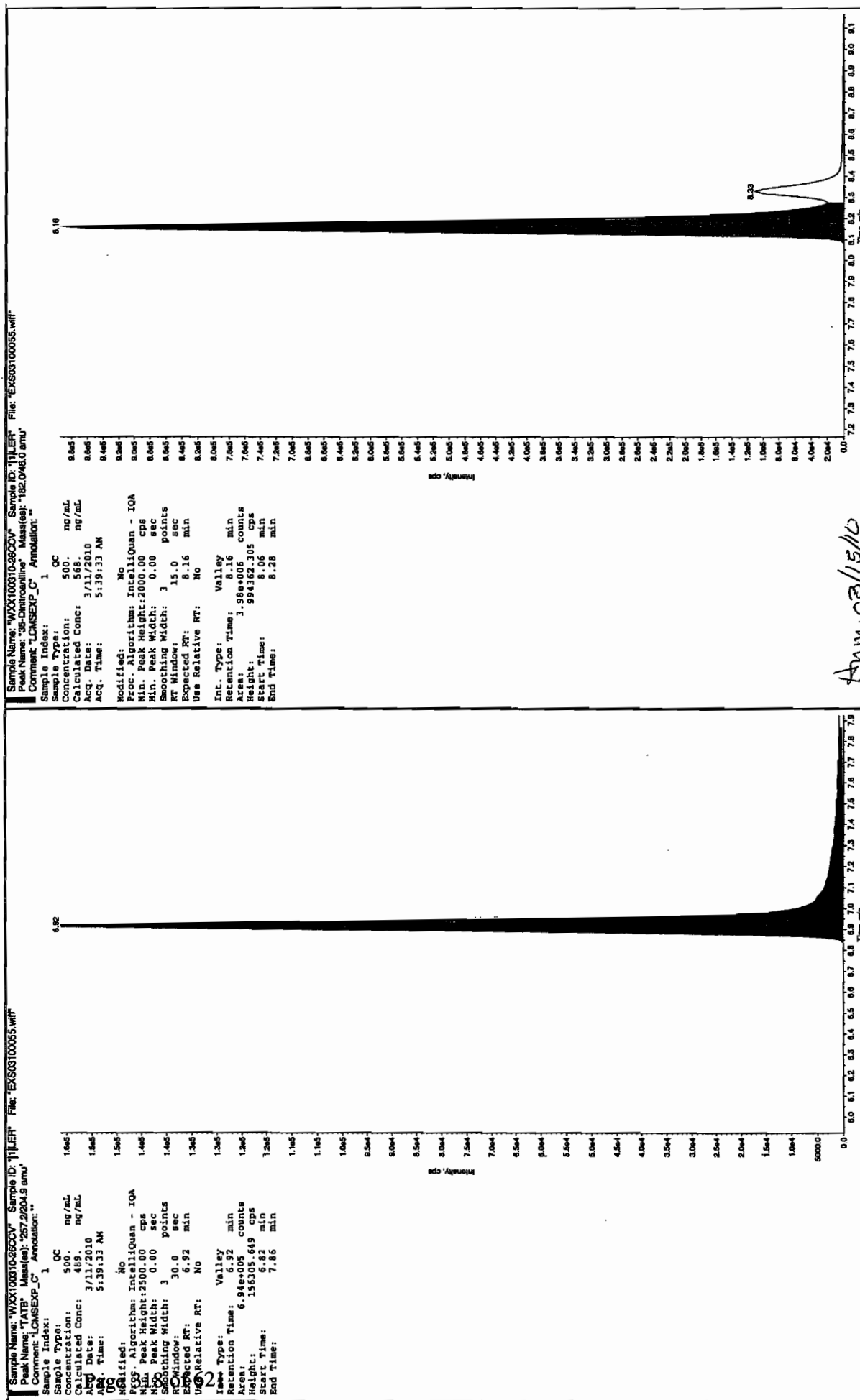
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

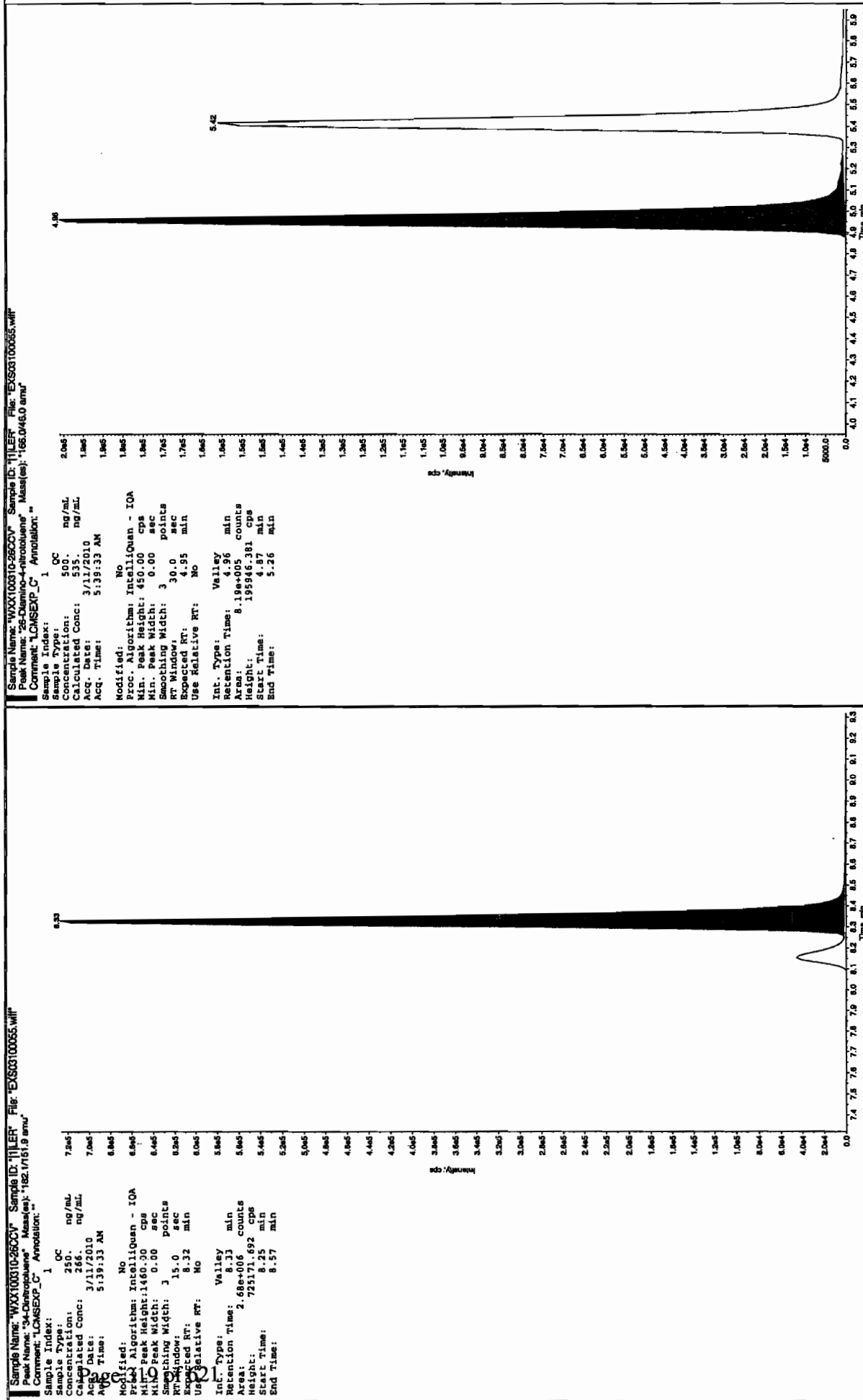
# Column used to flag Recovery outside of Limits

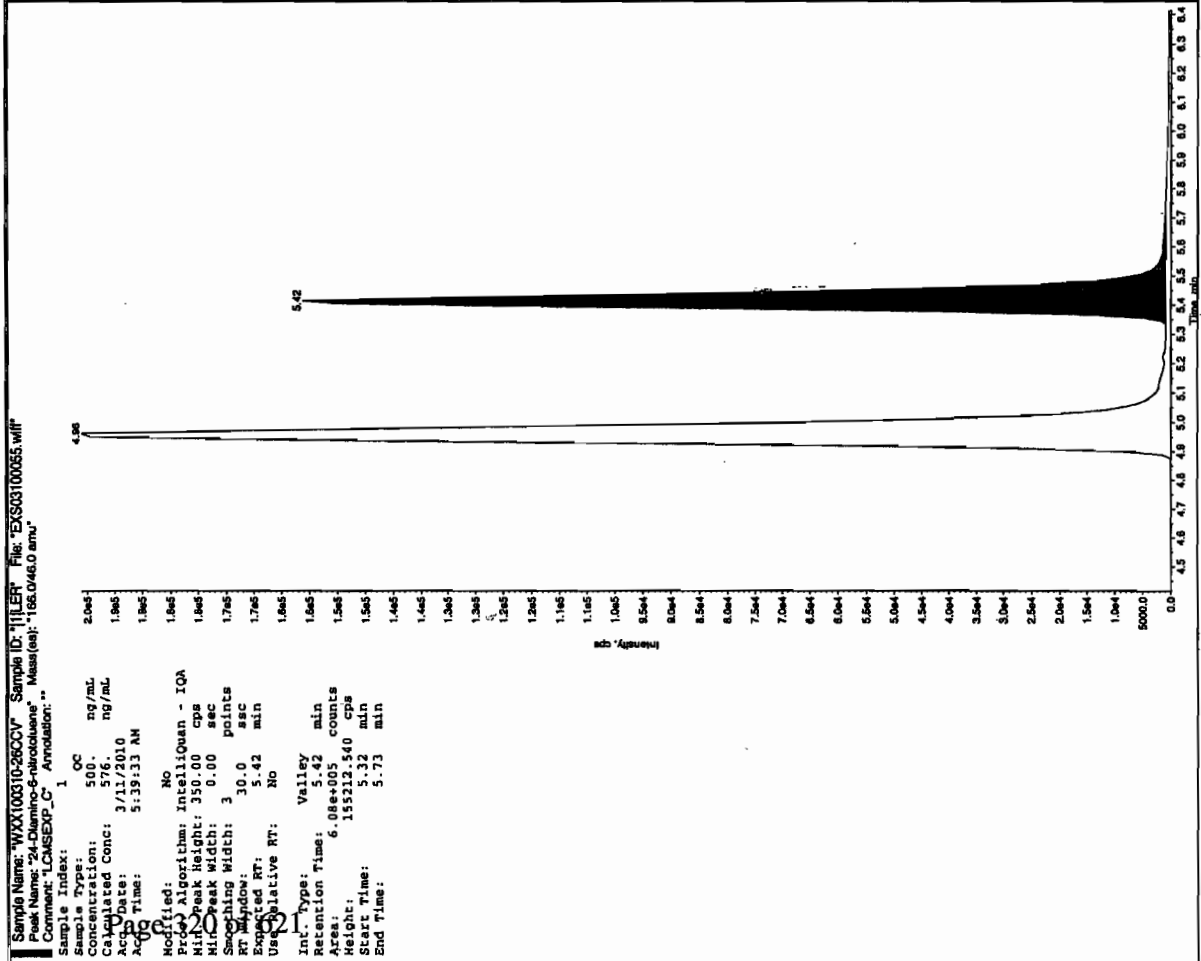
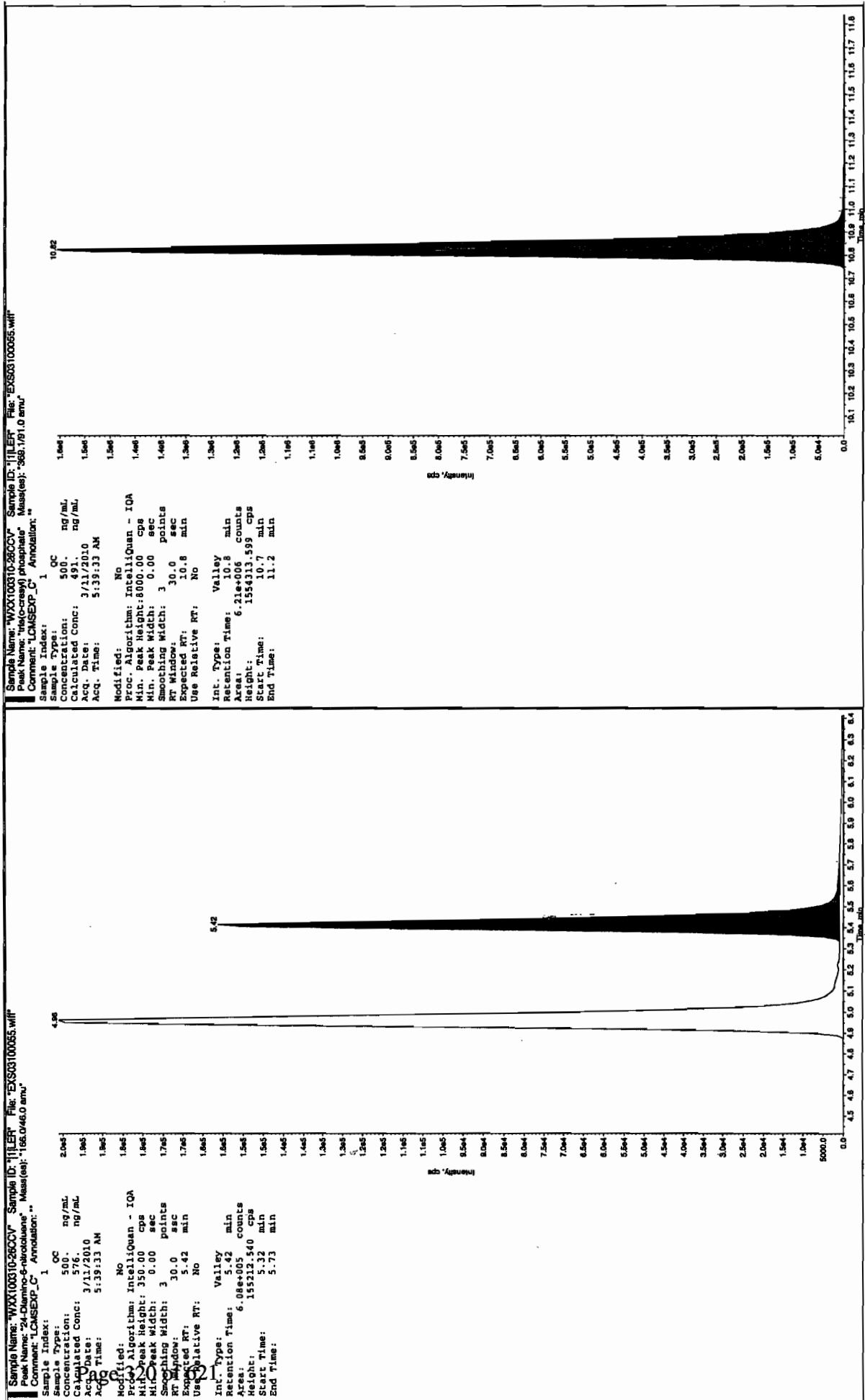
\* Value outside of Recovery Limits

dan 3/14/00



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



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100057.wiff

**Analysis Date:** 11-MAR-10 06:10

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	111	111	
2,6-Diamino-4-nitrotoluene	100	114	114	
3,4-Dinitrotoluene	50	52.3	105	
3,5-Dinitroaniline	100	92.3	92	
TATB	100	95.8	96	
tris(o-cresyl) phosphate	100	94.8	95	

**Recovery Limits:**

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

800 3/14/10

Sample Name: "WX100310-27CH" Sample ID: "111ER" File: "EX03100057.wif"

Peak Name: "TATB" Mass(es): 227.2224.9 amu

Comment: "LCMSXP-C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 95.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:10:58 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: 6.92 min

Use Relative RT: No

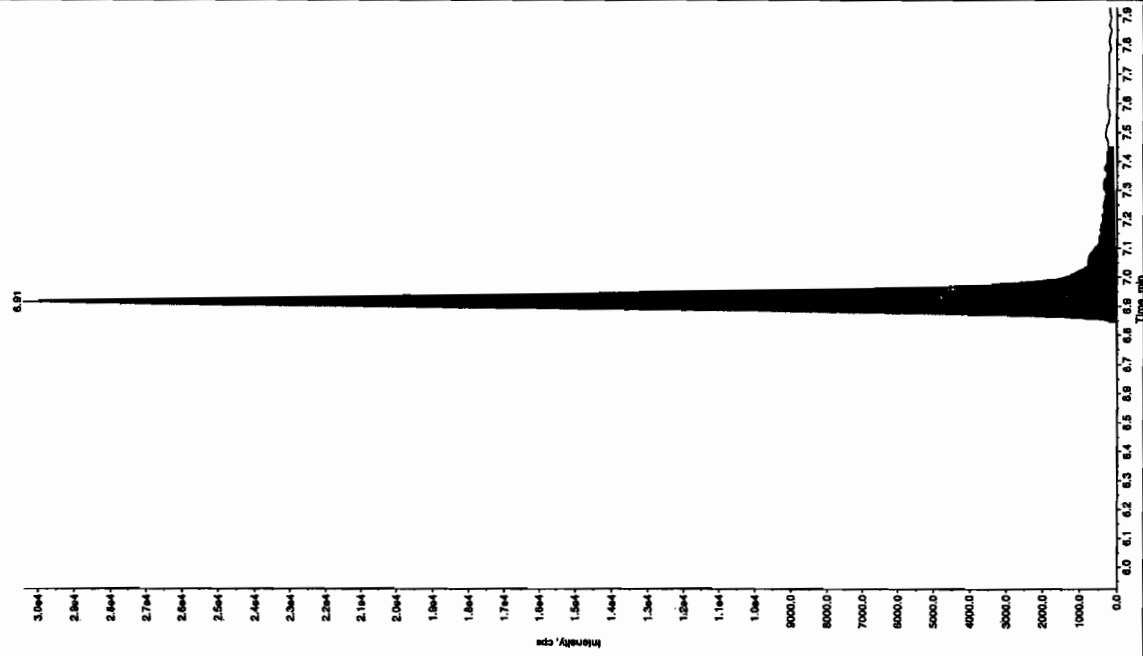
Int. Type: Valley

Retention Time: 1.246 min

Height: 30731.978 counts

Start Time: 5.79 min

End Time: 7.45 min



Sample Name: "WX100310-27CH" Sample ID: "111ER" File: "EX03100057.wif"

Peak Name: "3S-Dimethylamine" Mass(es): 182.046.0 amu

Comment: "LCMSXP-C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 92.3 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:10:58 AM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 15.0 sec

Expected RT: 8.15 min

Use Relative RT: No

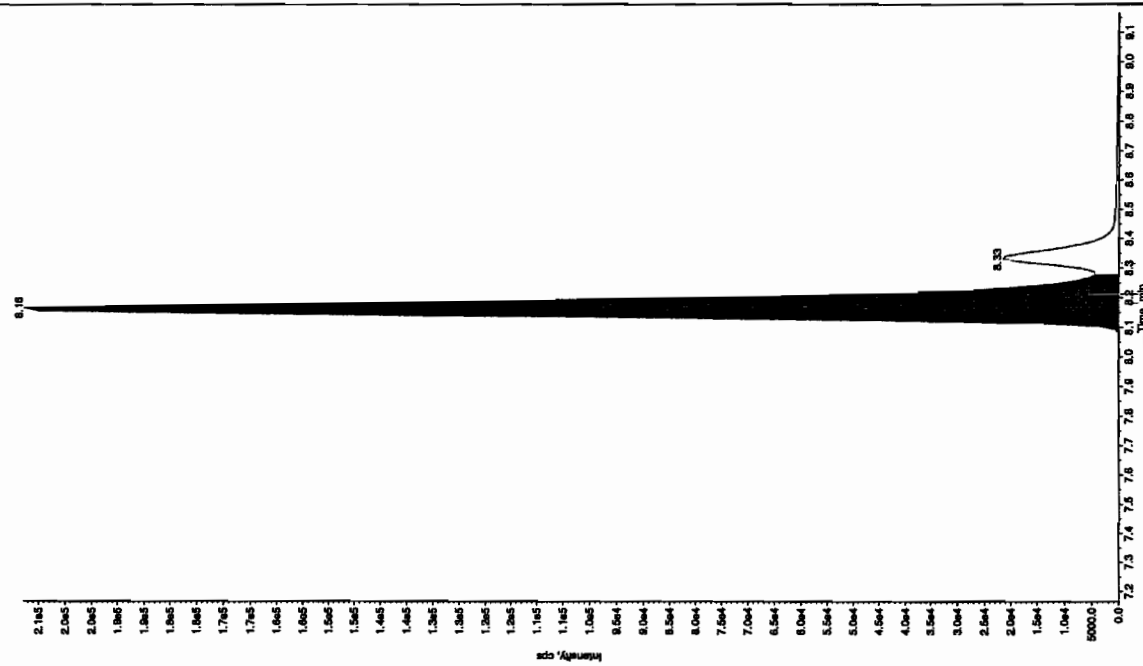
Int. Type: Valley

Retention Time: 8.356 min

Height: 207739.156 counts

Start Time: 8.06 min

End Time: 8.28 min



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

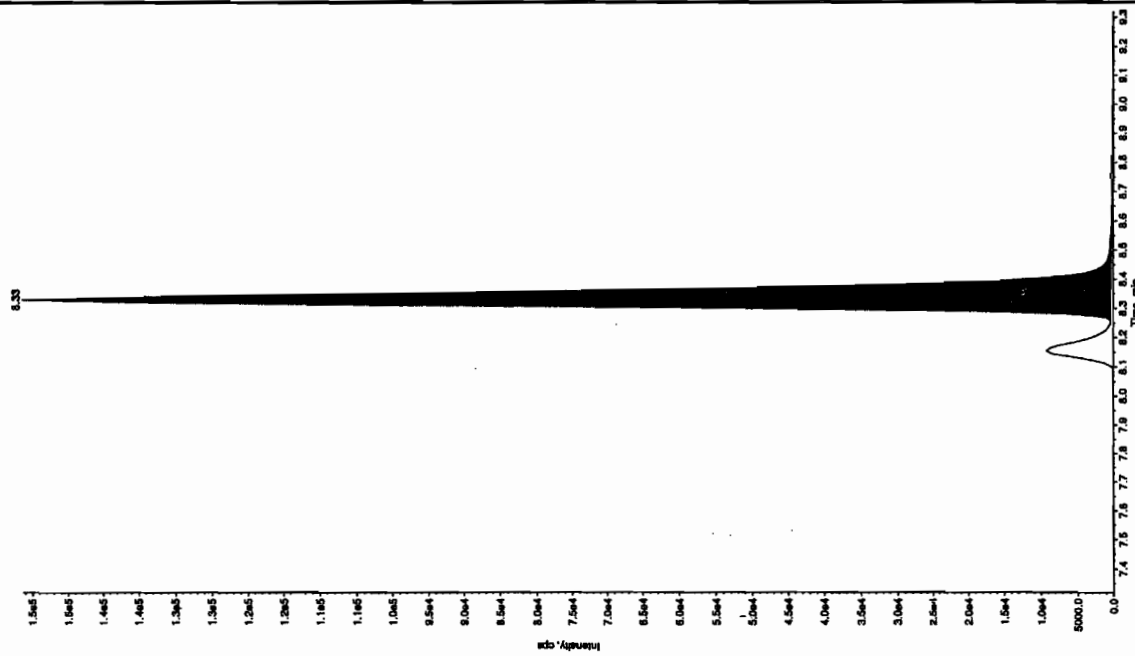
HW 03/15/10

Sample Name: "WXX100310-2709" Sample ID: "1111" File: "EX503100057.wif"  
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "162.1/151.9 amu"  
Comment: "LCMSEX\_C" Annotation: "

Sample Index: 1 QC  
Sample Type: QC  
Concentration: 50.0 ng/mL  
Calculated Conc: 52.3 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:10:58 AM

Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 1460.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.33 min  
Area: 5.59e+005 counts  
Height: 151058.655 cps  
Start Time: 8.26 min  
End Time: 8.65 min

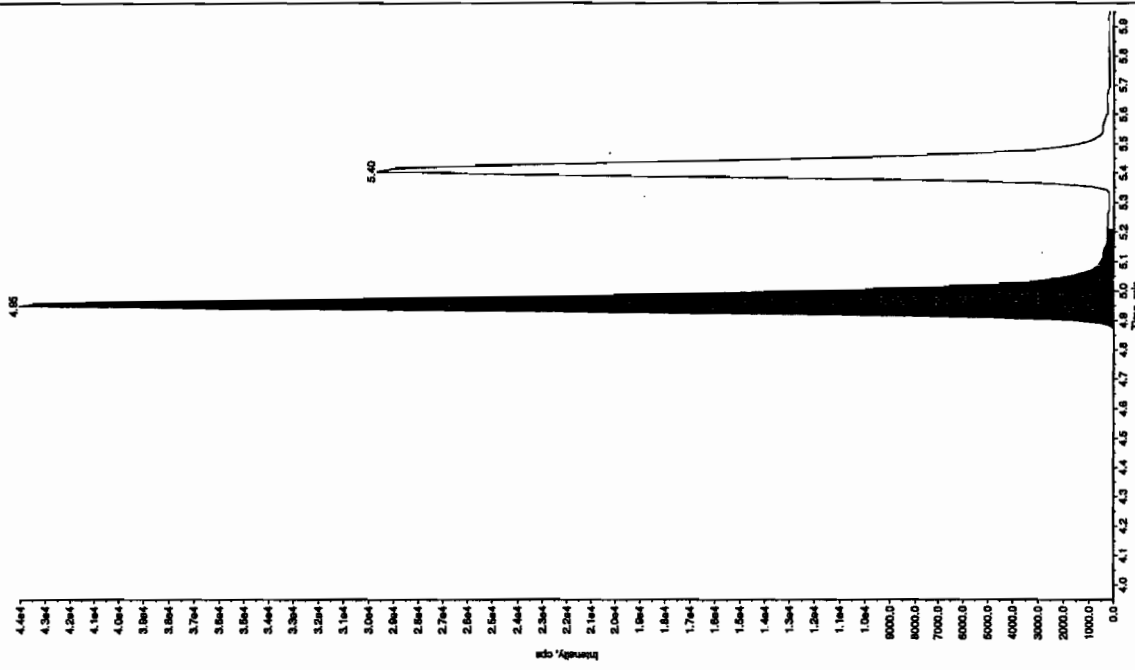


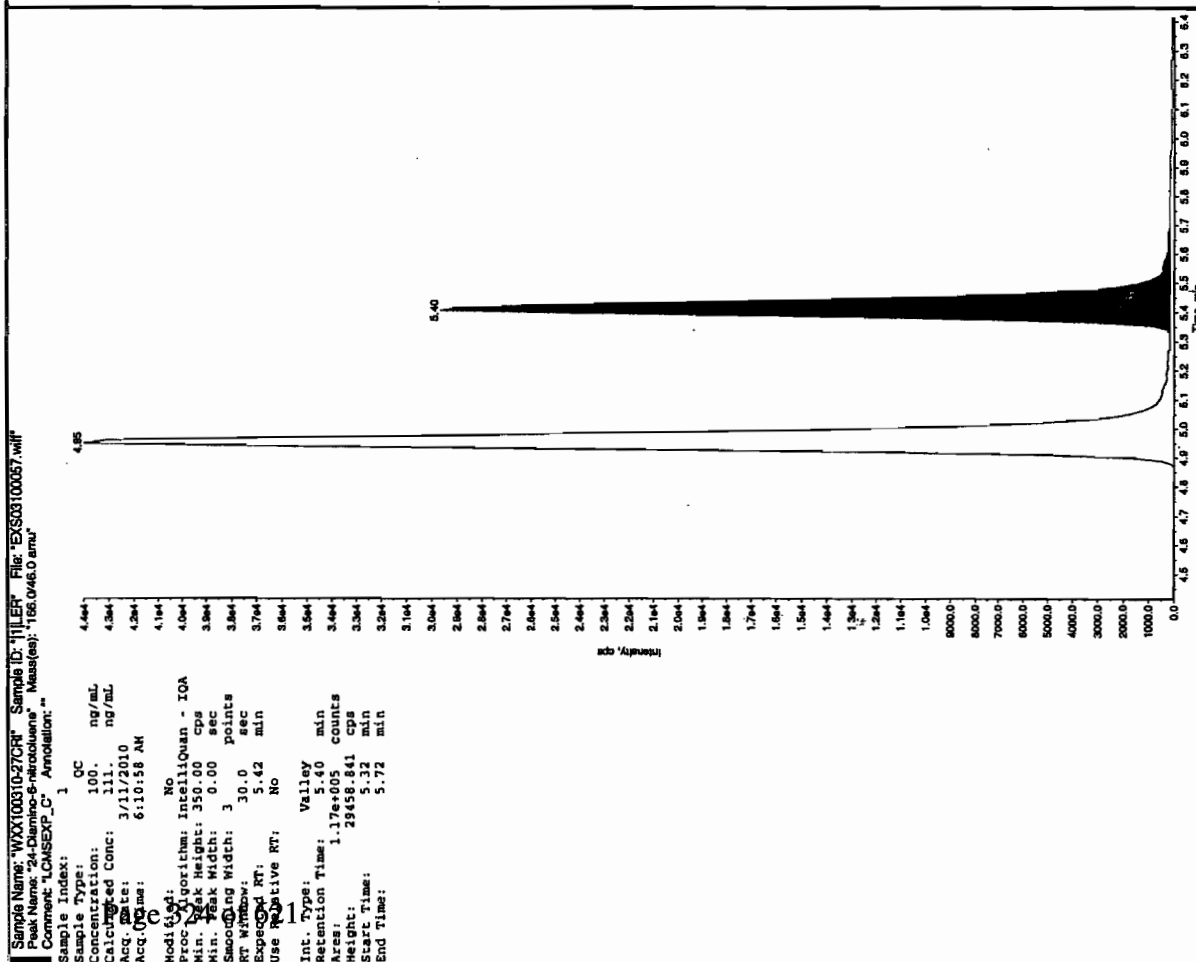
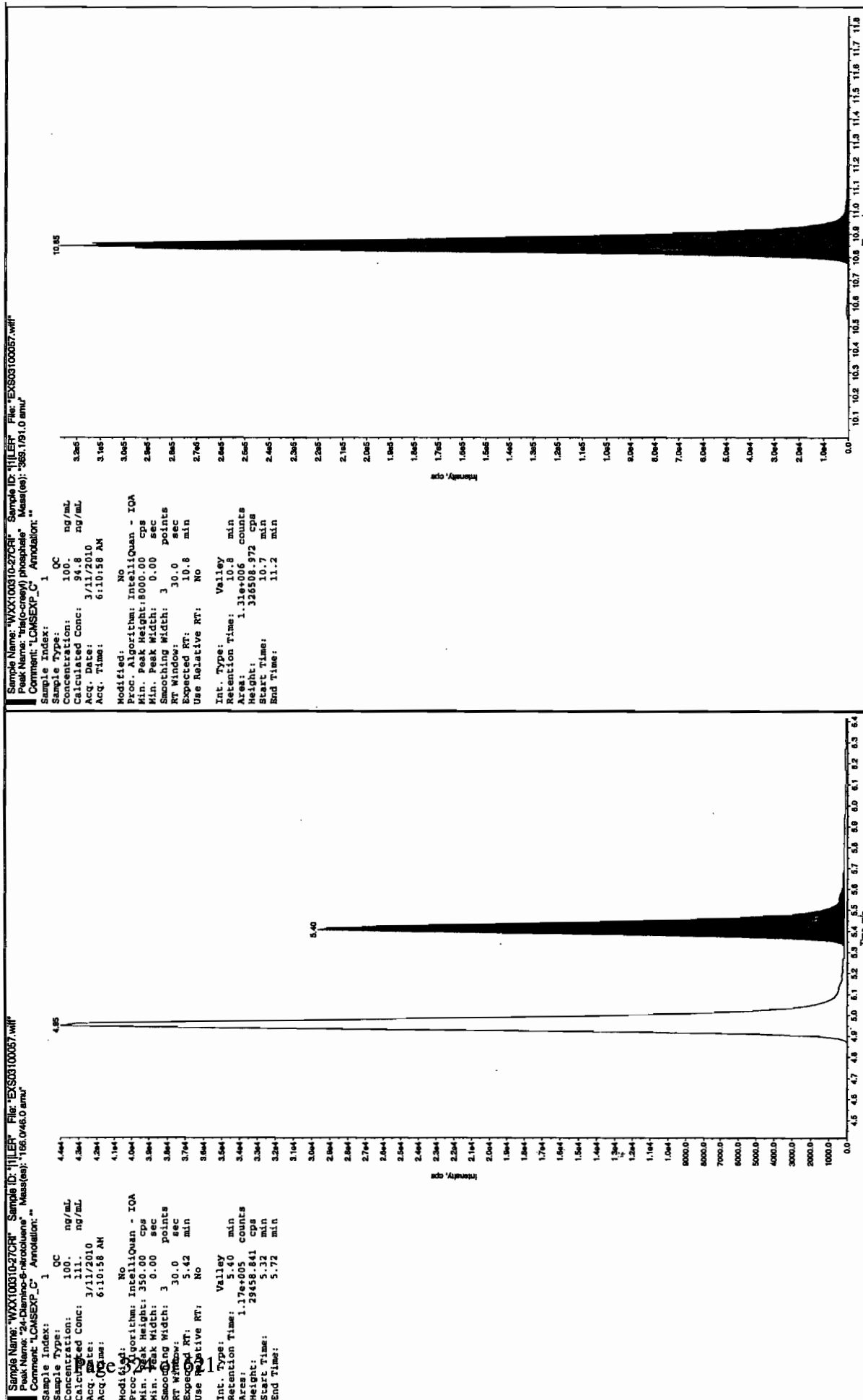
Sample Name: "WXX100310-2709" Sample ID: "1111" File: "EX503100057.wif"  
Peak Name: "26-Diamino-4-nitrotoluene" Mass(es): "166.0/160.0 amu"  
Comment: "LCMSEX\_C" Annotation: "

Sample Index: 1 QC  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 114. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:10:58 AM

Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 4.95 min  
Area: 1.74e+005 counts  
Height: 43974.716 cps  
Start Time: 4.87 min  
End Time: 5.21 min





**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100066.wiff

**Analysis Date:** 11-MAR-10 08:32

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
tris(o-cresyl) phosphate	500	471	94	
2,4-Diamino-6-nitrotoluene	500	457	91	
2,6-Diamino-4-nitrotoluene	500	480	96	
3,4-Dinitrotoluene	250	240	96	
3,5-Dinitroaniline	500	501	100	
TATB	500	485	97	

**Recovery Limits:**

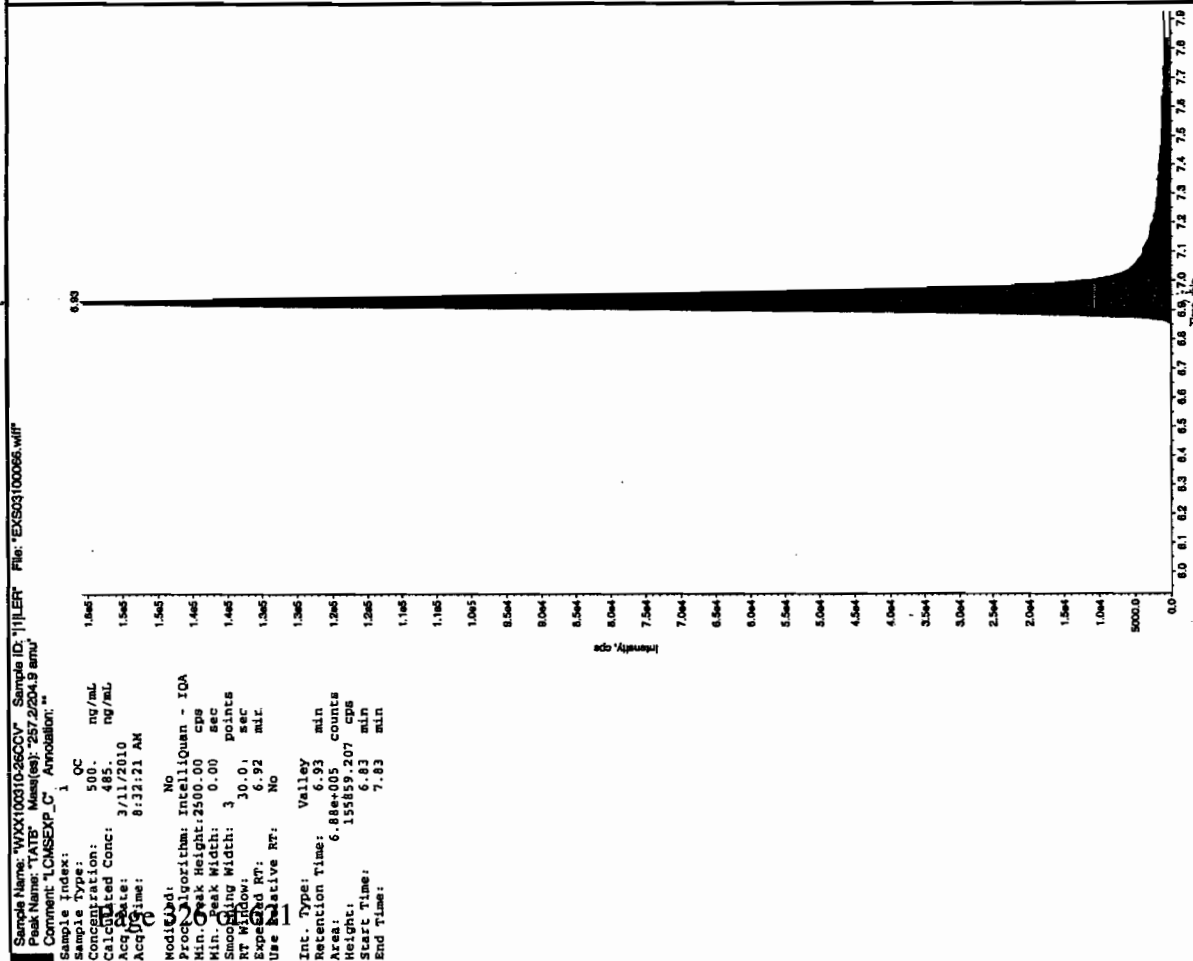
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

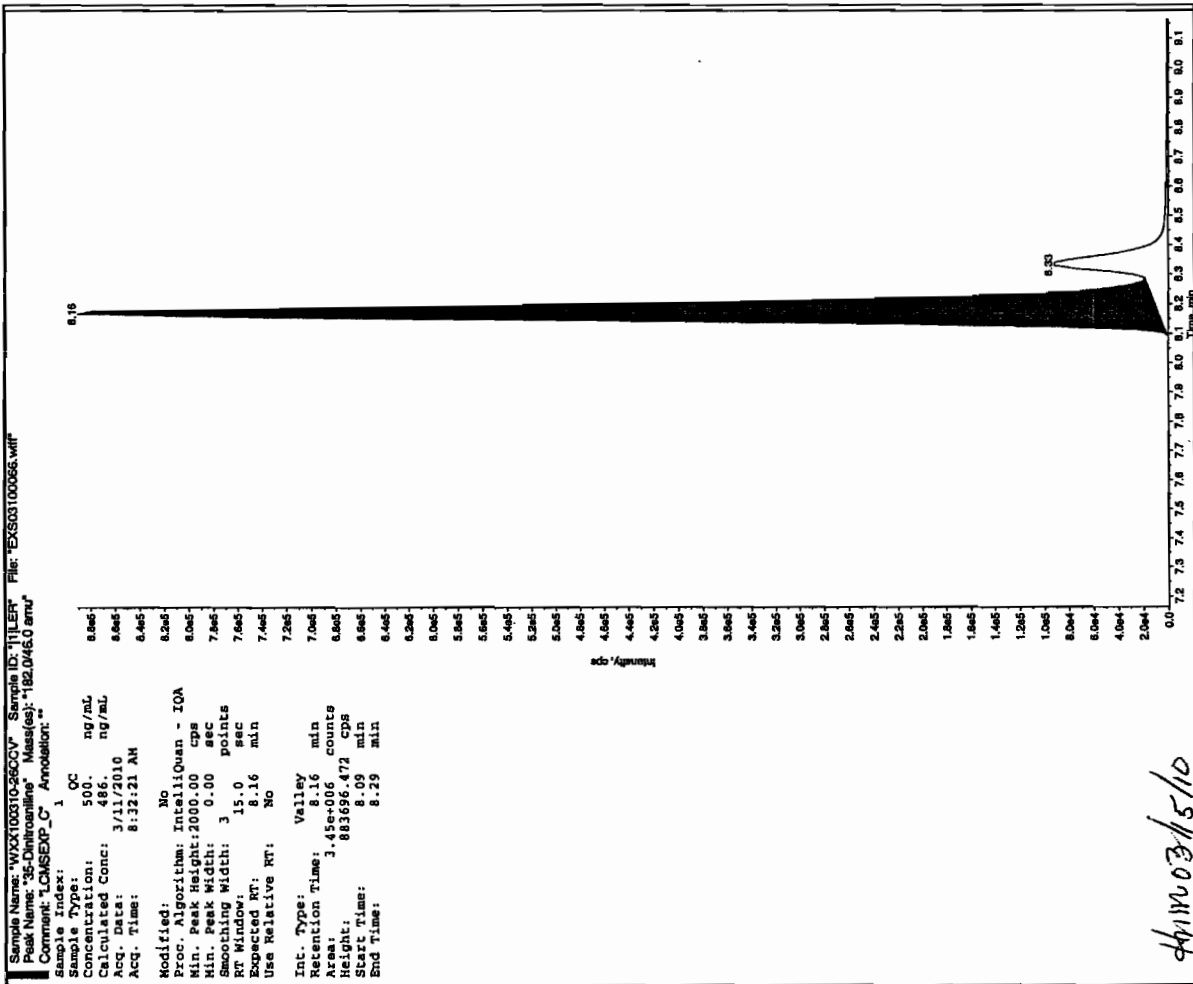
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 3/13/10



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

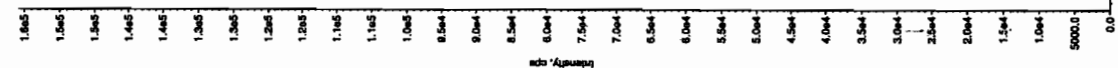


4/11/03/15/10

after scan 3114110

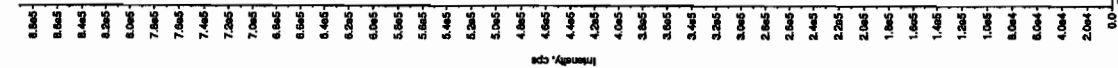
Sample Name: "WXX100310-260CV" Sample ID: "111ER" File: "EX503100066.wif"  
Peak Name: "TAIB" Mass(es): "257.2204.9 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 485. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:32:21 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 250.0 cps  
Min. Peak Width: 0.00  
Scan. Ring Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.93 min  
Area: 6.88e+005 counts  
Height: 155859.207 cps  
Start Time: 6.83 min  
End Time: 7.83 min



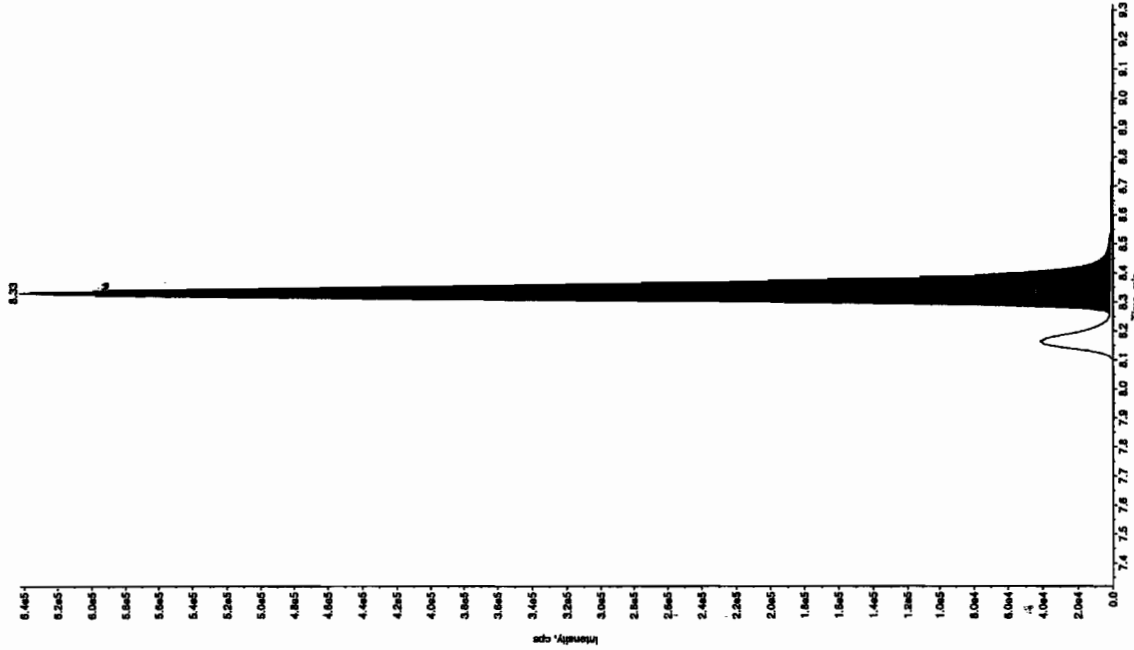
Sample Name: "WXX100310-260CV" Sample ID: "111ER" File: "EX503100066.wif"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 501. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:32:21 AM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.17 min  
Area: 3.55e+006 counts  
Height: 903038.127 cps  
Start Time: 8.09 min  
End Time: 8.29 min



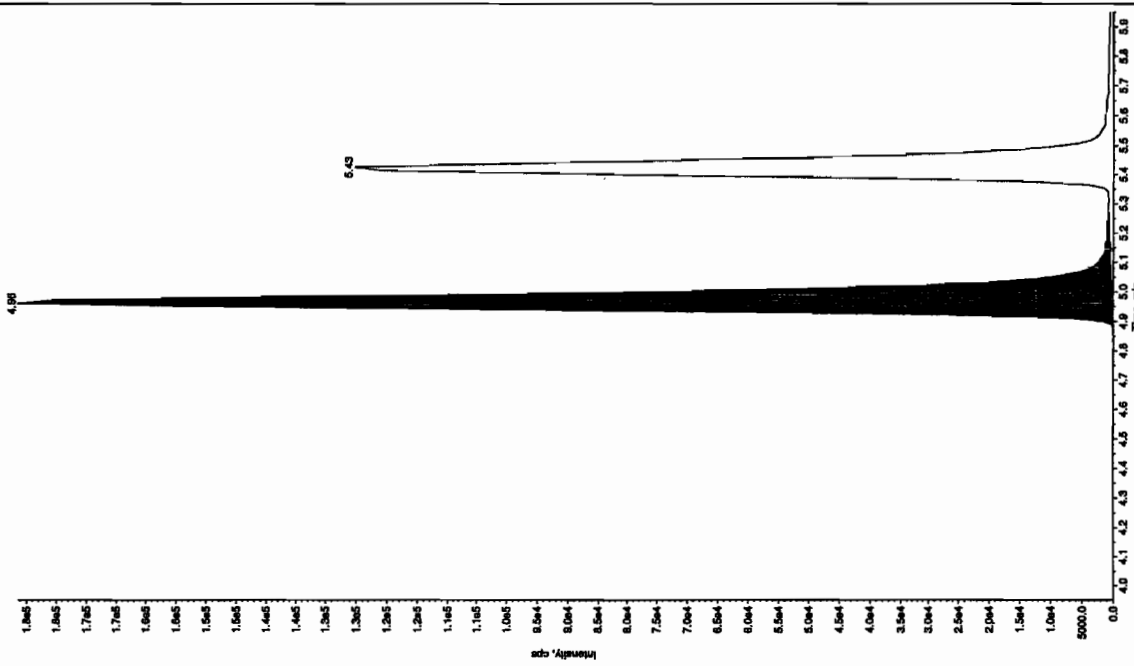
Sample Name: "WXX100310-260CV" Sample ID: "JLIER" File: "EX503100066.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250. ng/mL  
 Calculated Conc: 240. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 8:32:21 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 In. Peak Height: 1460.00 cps  
 In. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.42e+006 counts  
 Height: 640585.632 cps  
 Start Time: 8.26 min  
 End Time: 8.59 min



Sample Name: "WXX100310-260CV" Sample ID: "JLIER" File: "EX503100066.wif"  
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "155.0/46.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

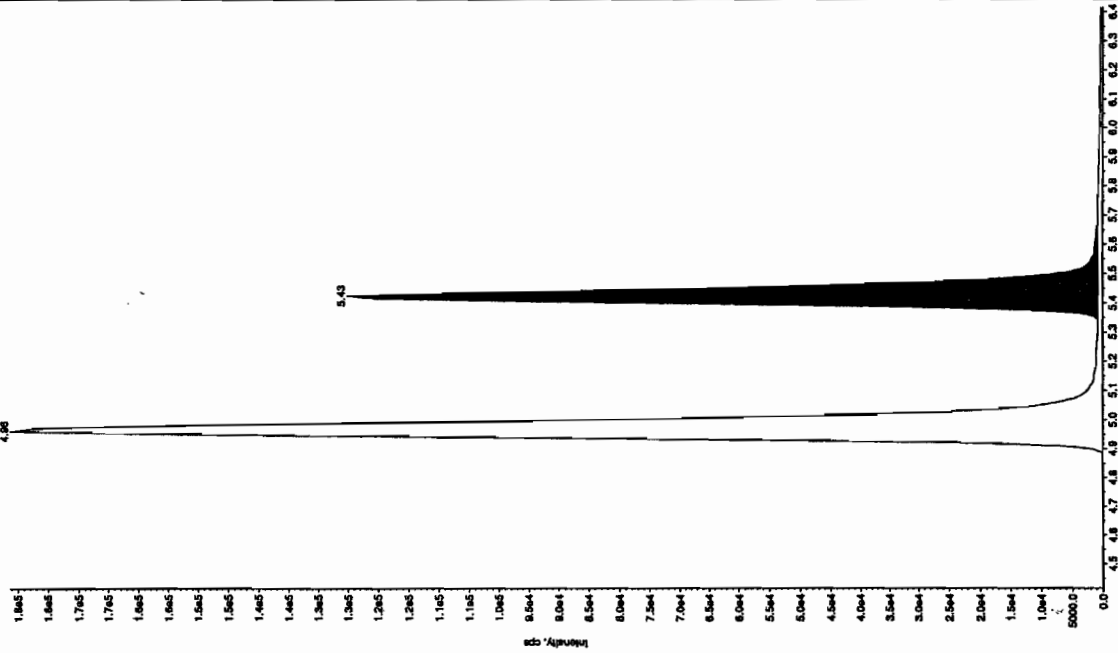
Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 480. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 8:32:21 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 In. Peak Height: 450.00 cps  
 In. Peak Width: 0.00 points  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 7.35e+005 counts  
 Height: 181154.343 cps  
 Start Time: 4.88 min  
 End Time: 5.27 min





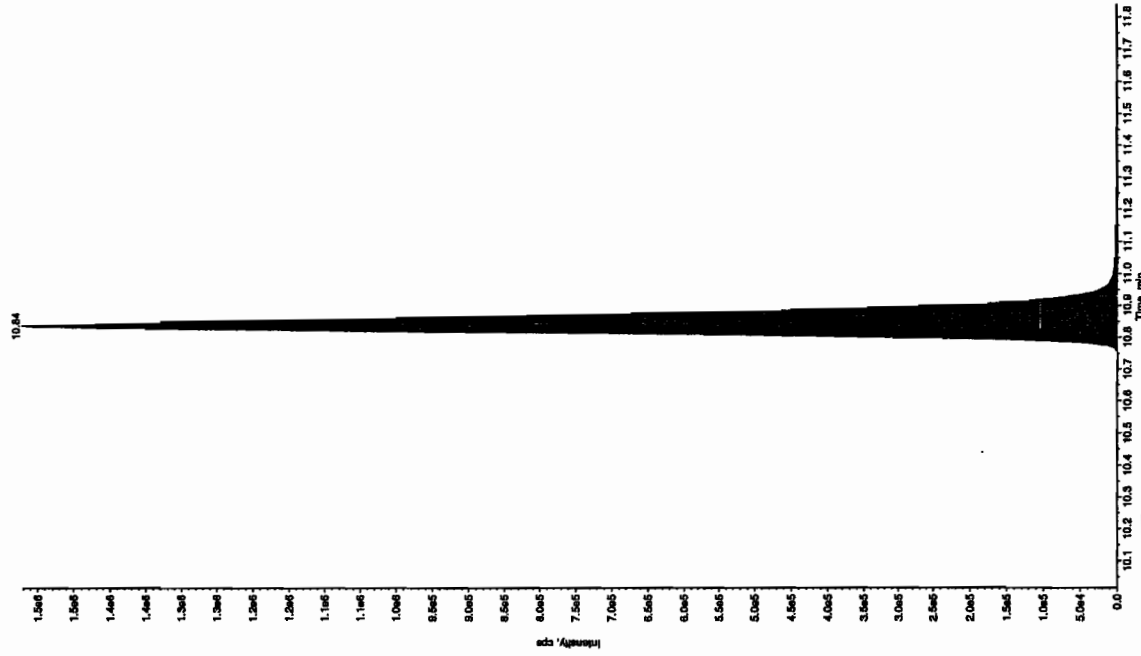
Sample Name: "WXX100310-260CV" Sample ID: "11111" File: "EXS03100066.wif"  
Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCMS-EXP\_C" Annotation: "

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 457. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:32:21 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 350.00 cps  
In. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 4.93e+005 counts  
Height: 12432.31 cps  
Start Time: 5.37 min  
End Time: 5.67 min



Sample Name: "WXX100310-260CV" Sample ID: "11111" File: "EXS03100066.wif"  
Peak Name: "24-Dinitro-6-nitrotoluene" Mass(es): "363.101.0 amu"  
Comment: "LCMS-EXP\_C" Annotation: "

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 471. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 8:32:21 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.00 cps  
In. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 5.98e+006 counts  
Height: 1520639.160 cps  
Start Time: 10.7 min  
End Time: 11.1 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100068.wiff

**Analysis Date:** 11-MAR-10 09:03

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	93.6	94	
2,6-Diamino-4-nitrotoluene	100	95.6	96	
3,4-Dinitrotoluene	50	47.8	96	
3,5-Dinitroaniline	100	82.2	82	
TATB	100	91.3	91	
tris(o-cresyl) phosphate	100	93.5	94	

**Recovery Limits:**

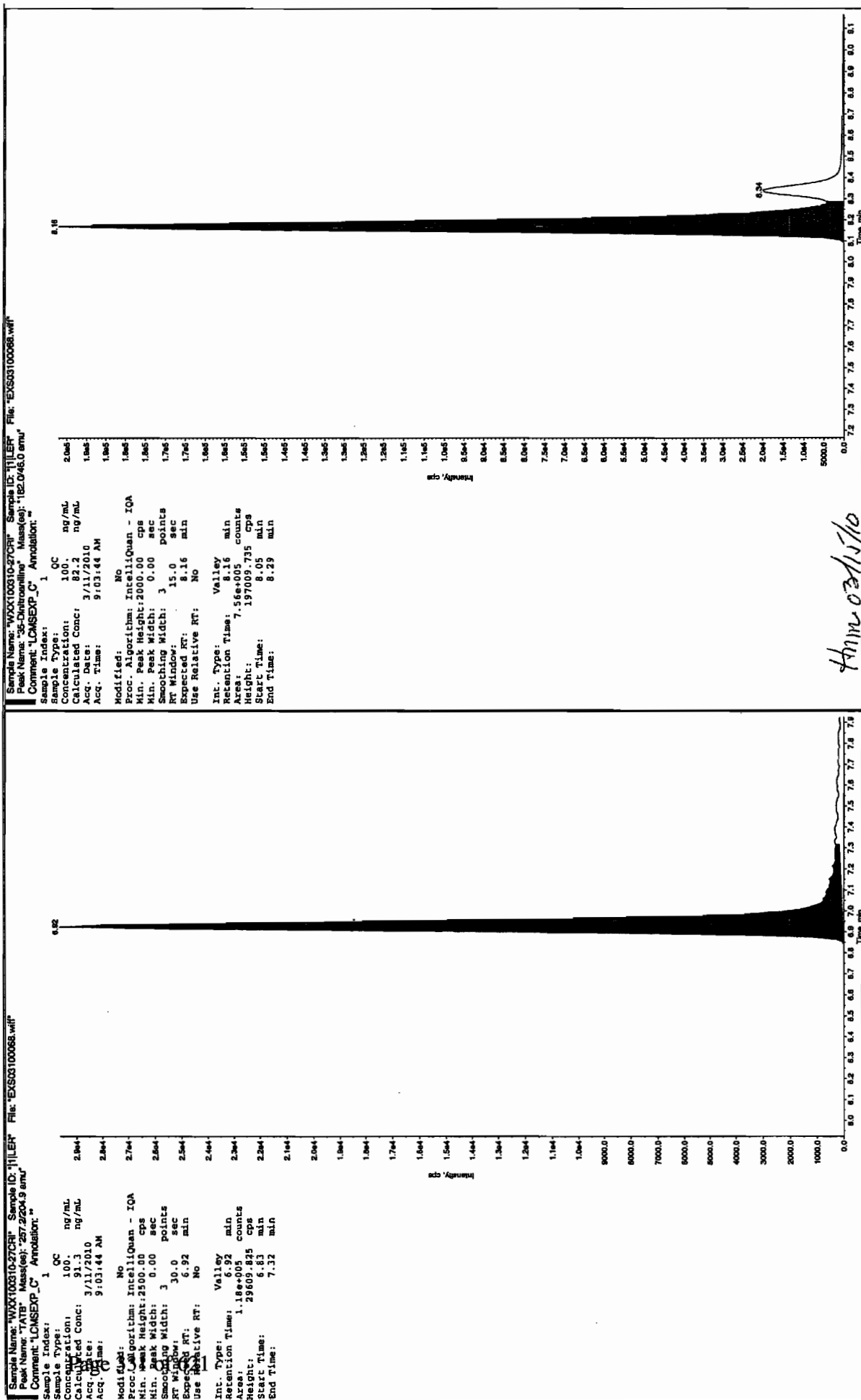
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Jan 31/10



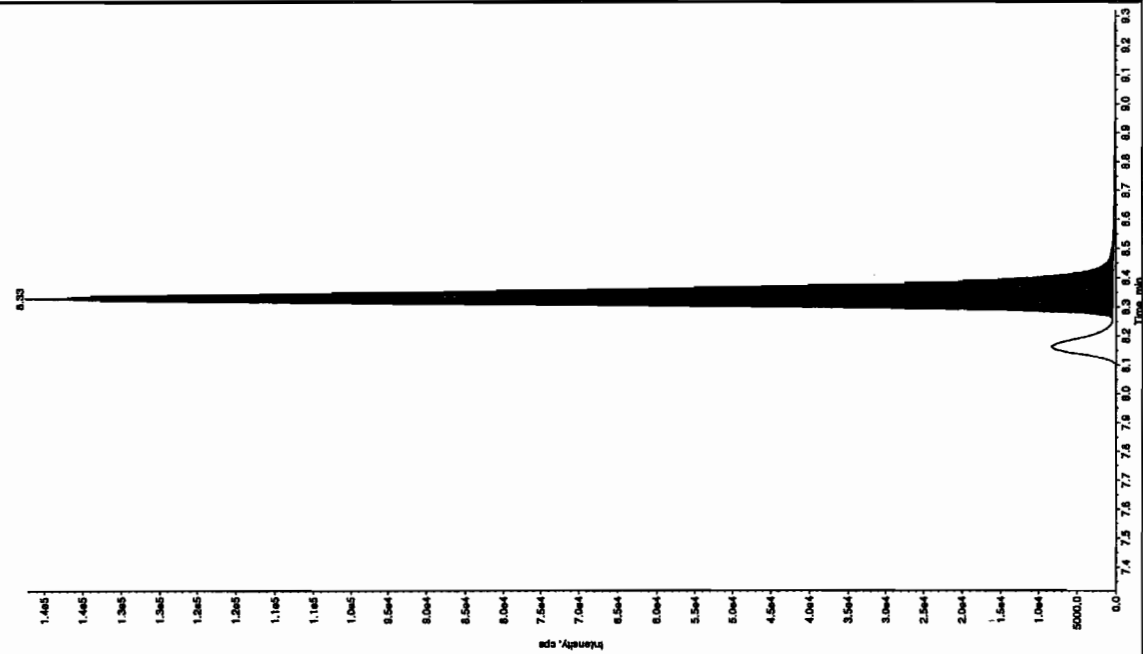
Jan 31/10

Sample Name: "WXX100310-27CR" Sample ID: "H1LER" File: "EXS03100068.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 50 ng/mL  
 Calculated Conc: 47.8 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 9:03:44 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: 8.32 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 5.14e+005 counts  
 Height: 11185.071 cps  
 Start Time: 8.16 min  
 End Time: 8.57 min

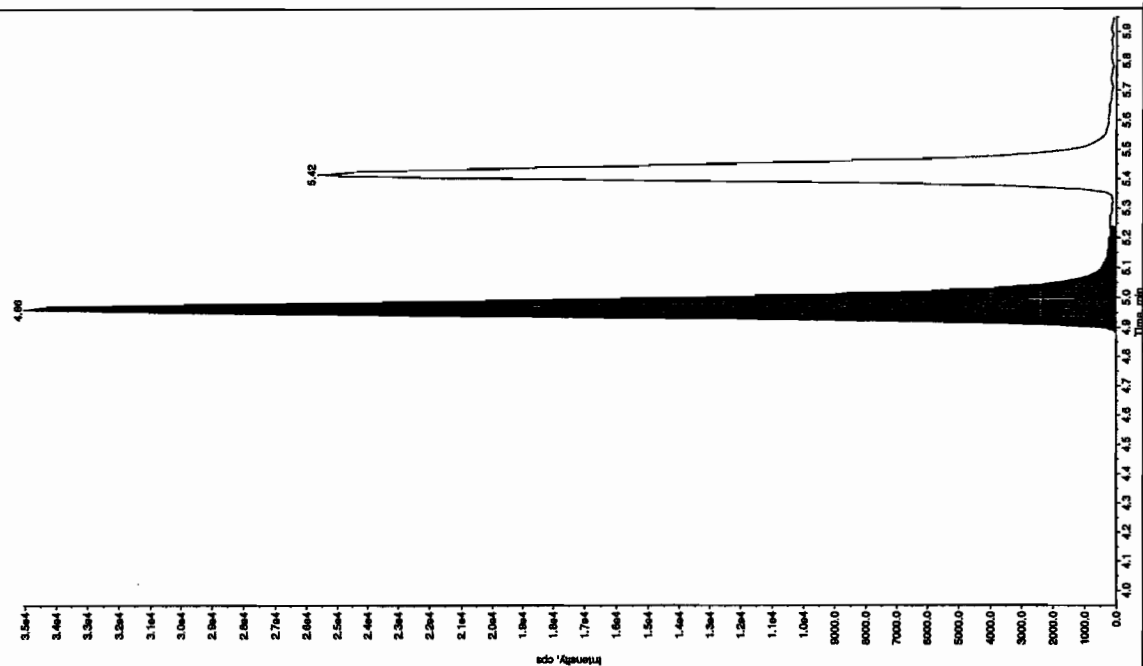


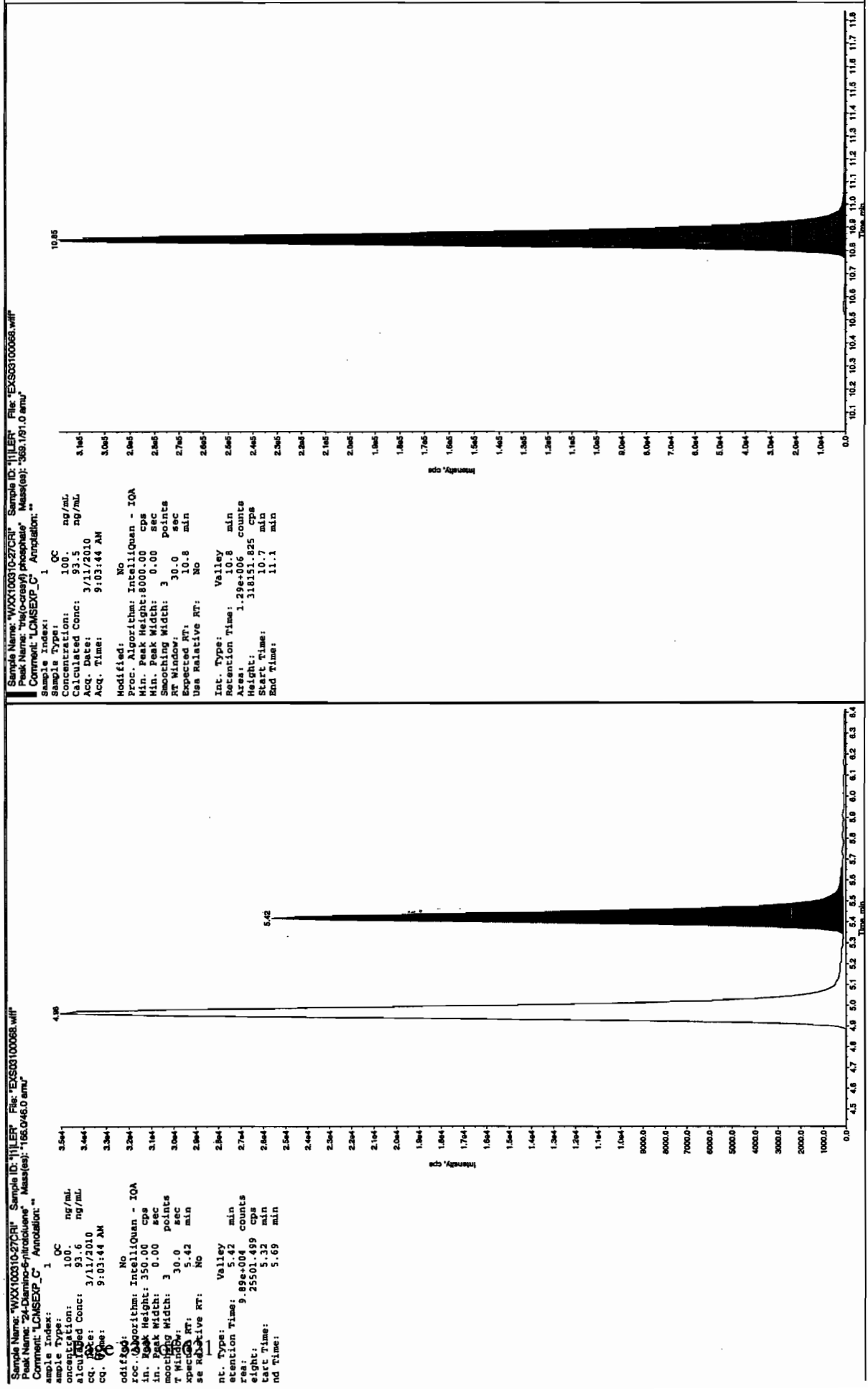
Sample Name: "WXX100310-27CR" Sample ID: "H1LER" File: "EXS03100068.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: OC  
 Concentration: 100 ng/mL  
 Calculated Conc: 95.6 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 9:03:44 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: 4.93 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 1.46e+005 counts  
 Height: 35039.734 cps  
 Start Time: 4.87 min  
 End Time: 5.24 min





3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100079.wiff

**Analysis Date:** 11-MAR-10 11:56

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	479	96	
2,6-Diamino-4-nitrotoluene	500	499	100	
3,4-Dinitrotoluene	250	252	101	
3,5-Dinitroaniline	500	515	103	
TATB	500	463	93	
tris(o-cresyl) phosphate	500	464	93	

**Recovery Limits:**

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

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

Other Target Analytes      80-120%

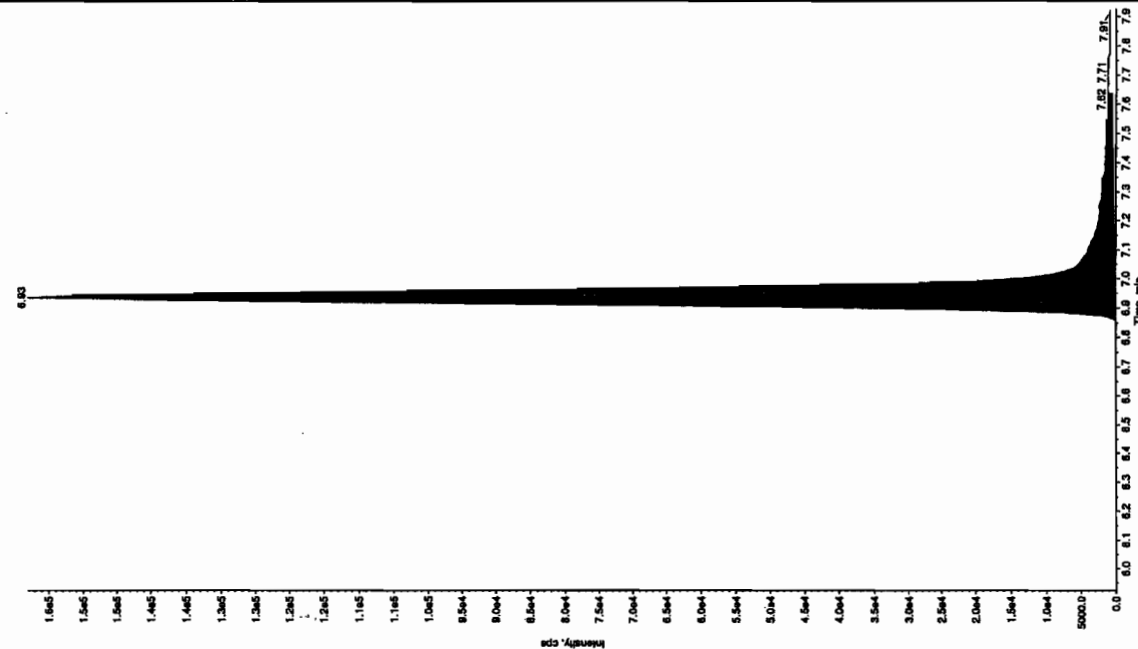
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Lab 3/14/10

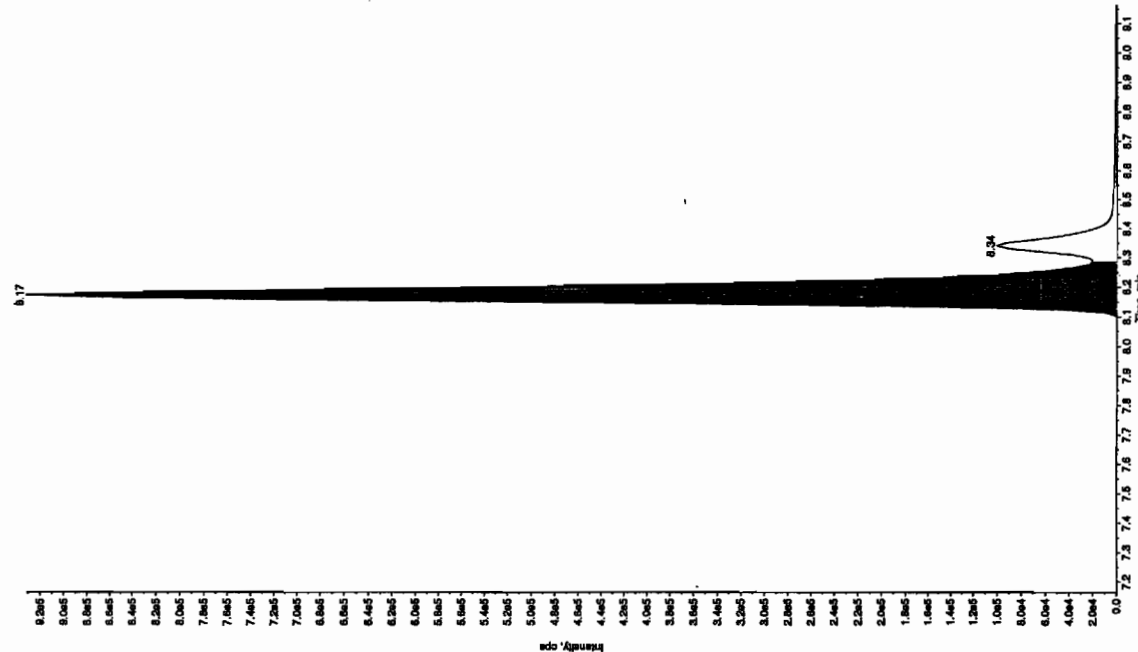
Sample Name: "WXX100310-260CY" Sample ID: "JL1ER" File: "EXS03100079.wif"  
Peak Name: "TATB" Mass(es): 227.2264.9 amu  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1 QC  
Concentration: 500 ng/mL  
Calculated Conc: 515 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2500.00 cps  
Min. Peak Width: 0.00 sec  
Smoother Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.93 min  
Area: 574600 counts  
Height: 15987840 cps  
Start Time: 6.83 min  
End Time: 7.64 min



Sample Name: "WXX100310-260CY" Sample ID: "JL1ER" File: "EXS03100079.wif"  
Peak Name: "35-Dichlorobenzene" Mass(es): 182.046.0 amu  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1 QC  
Concentration: 500 ng/mL  
Calculated Conc: 515 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoother Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.17 min  
Area: 3.64e+006 counts  
Height: 930742.249 cps  
Start Time: 8.08 min  
End Time: 8.29 min



Ann 03/17/10

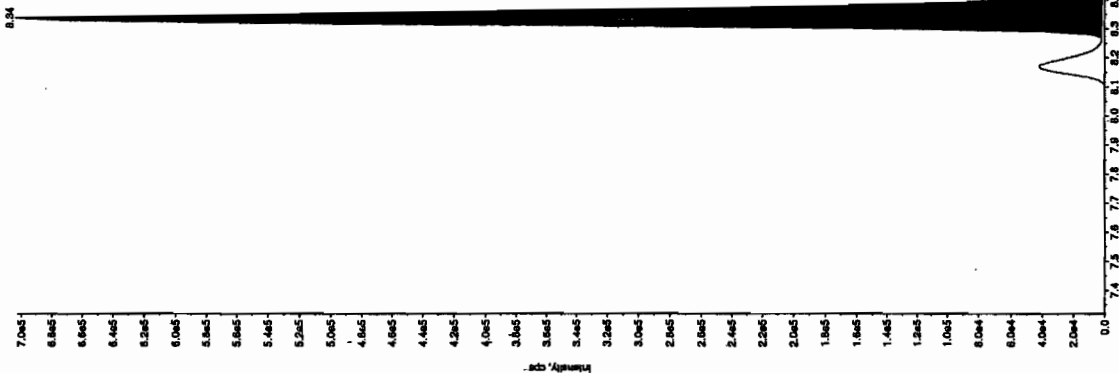
Sample Name: "WXX100310-260CV" Sample ID: "HLEP" File: "EX303100079.wif"  
Peak Name: "3a-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: OC  
Concentration: 250. ng/mL  
Calculated Conc: 215. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 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: 8.32 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.34 min  
Area: 2.55e+006 counts  
Height: 701186.648 cps  
Start Time: 8.28 min  
End Time: 8.42 min



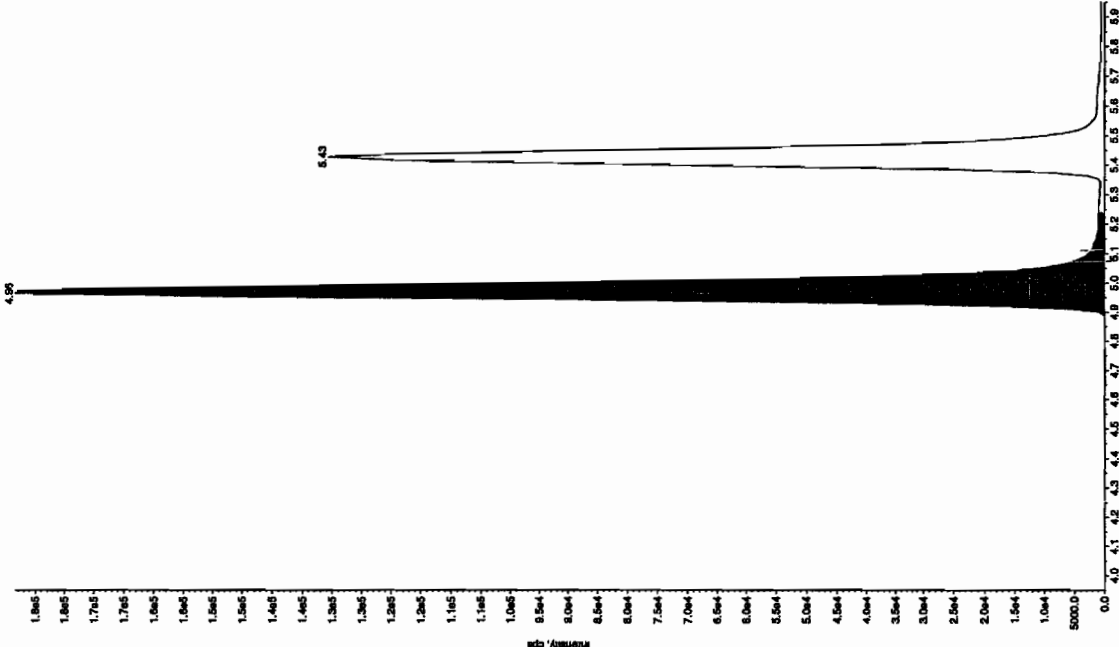
Sample Name: "WXX100310-260CV" Sample ID: "HLEP" File: "EX303100079.wif"  
Peak Name: "2a-Dinitro-4-nitrofluorene" Mass(es): "185.0/146.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: OC  
Concentration: 500. ng/mL  
Calculated Conc: 499. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 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: 4.95 min  
Use Relative RT: No

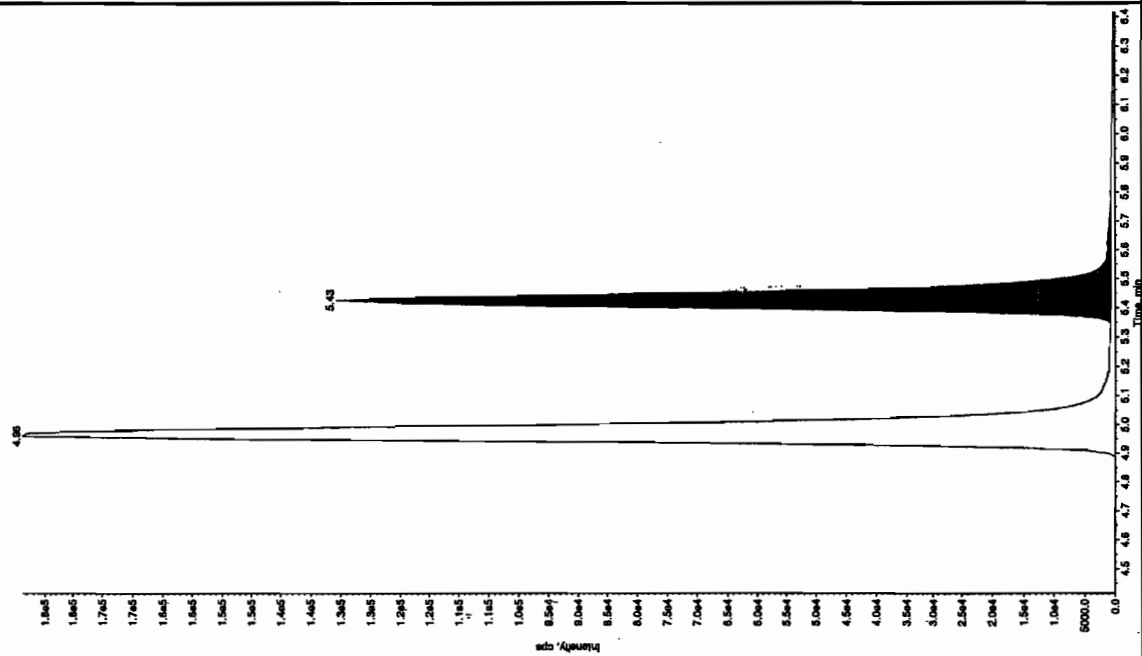
Int. Type: Valley  
Retention Time: 4.96 min  
Area: 7.63e+006 counts  
Height: 183503.555 cps  
Start Time: 4.87 min  
End Time: 5.24 min





Sample Name: WXX100310-26CCV Sample ID: 11157 File: EX03100079.wif  
Peak Name: 24-Hydroxy-cholesterol Mass(es): 166.046.0 and  
Comment: "LONSEXP\_C" Annotation: "

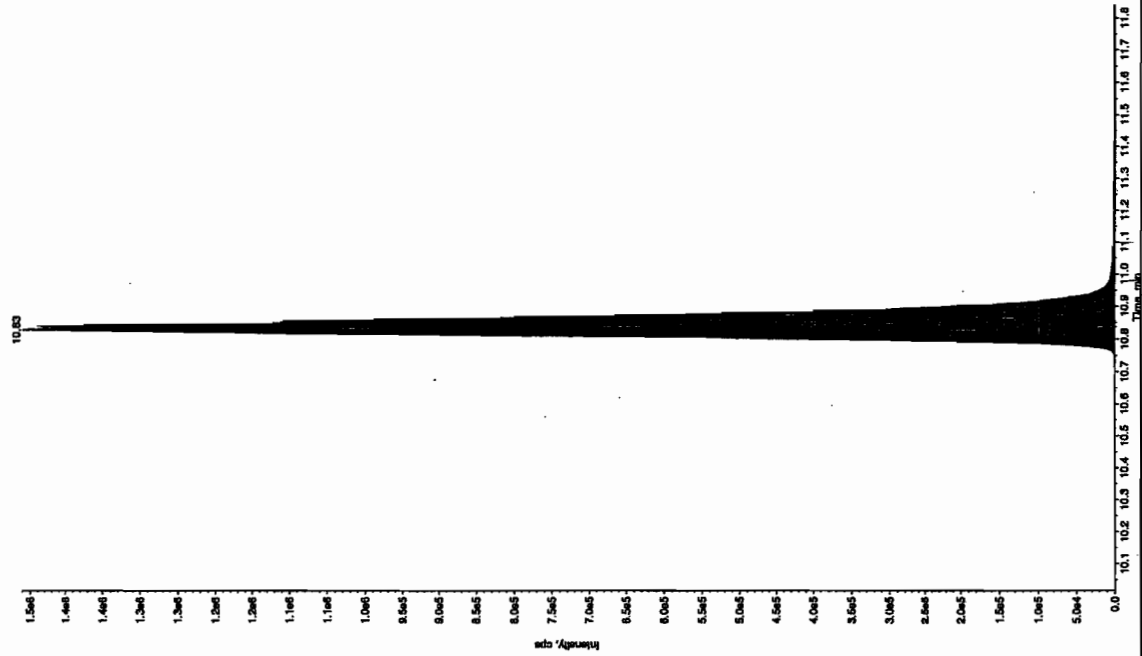
Sample Index: 1 QC  
Concentration: 500. ng/mL  
Calculated Conc: 479. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 350.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 5.06e+005 counts  
Height: 129995.911 cps  
Start Time: 5.33 min  
End Time: 5.78 min



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

Sample Name: WXX100310-26CCV Sample ID: 11157 File: EX03100079.wif  
Peak Name: tri(c-oxe) phosphate Mass(es): 369.161.0 umu  
Comment: "LONSEXP\_C" Annotation: "

Sample Index: 1 QC  
Concentration: 500. ng/mL  
Calculated Conc: 464. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 11:56:27 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 5.89e+006 counts  
Height: 1459754.883 cps  
Start Time: 10.7 min  
End Time: 11.2 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100081.wiff

**Analysis Date:** 11-MAR-10 12:27

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	97.2	97	
2,6-Diamino-4-nitrotoluene	100	97.5	98	
3,4-Dinitrotoluene	50	49	98	
3,5-Dinitroaniline	100	84.2	84	
TATB	100	92.4	92	
tris(o-cresyl) phosphate	100	93.5	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

Run 3/14/10

Sample Name: "WXX100310-2709" Sample ID: "11LRF" File: "EXS03100081.wif"

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

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1

Concentration: 100. ng/mL

Calculated Conc: 92.4 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 12:27:51 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 3.00 sec

Smoothing Width: 3.00 points

RT Window: 30.0 sec

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.92 min

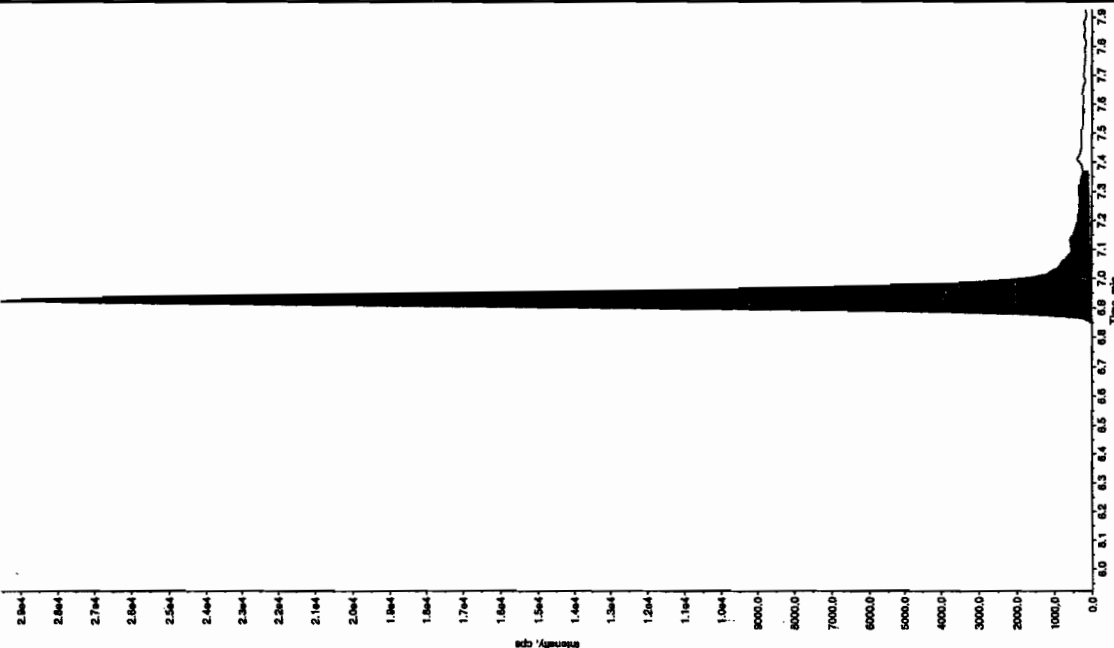
Area: 1.19e+005 counts

Height: 29524.757 cps

Start Time: 6.83 min

End Time: 7.37 min

6.92



Sample Name: "WXX100310-2709" Sample ID: "11LRF" File: "EXS03100081.wif"

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

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1

Concentration: 100. ng/mL

Calculated Conc: 84.2 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 12:27:51 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3.00 points

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

Retention Time: 8.16 min

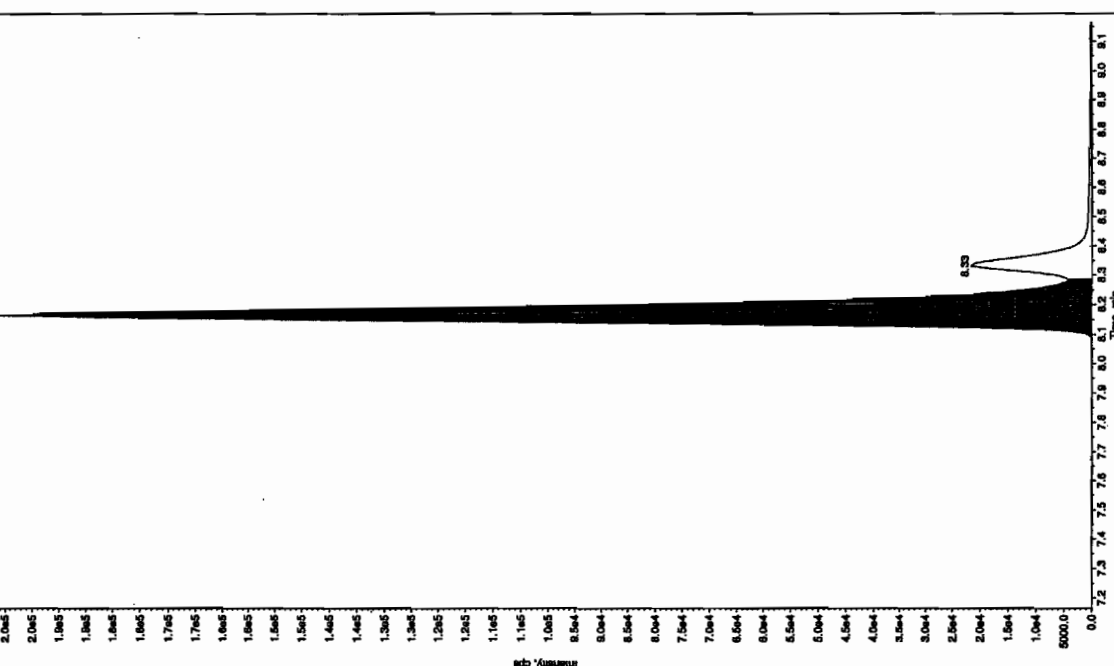
Area: 7.69e+005 counts

Height: 200933.228 cps

Start Time: 8.03 min

End Time: 8.29 min

8.16



44mm 034510

Sample Name: "WXX100310-27CH" Sample ID: "111ER" File: "EXS03100081.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "162.1/151.9 amu"

Comment: "LCMSSEXP\_C" Annotation: "

Sample Index: 1

Sample Name: "WXX100310-27CH"

Concentration: 50.0 ng/mL

Calculated Conc: 49.0 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 12:27:51 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 1460.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

IR Window: 15.0 sec

Expected RT: 8.32 min

Use Relative RT: No

Int. Type: Valley

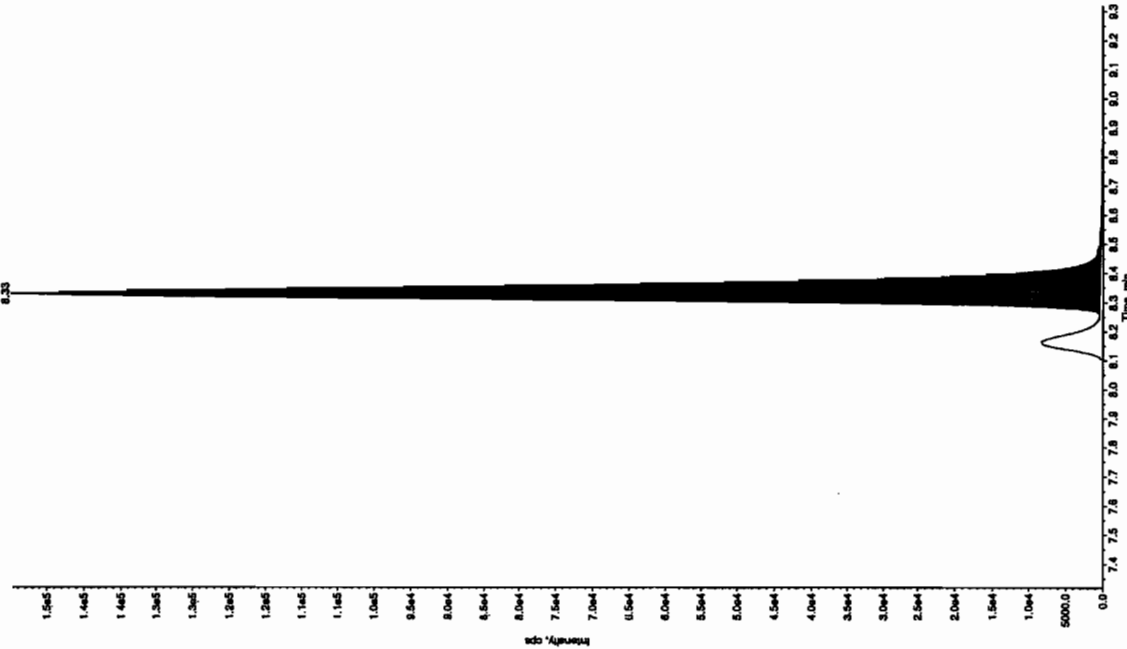
Retention Time: 8.33 min

Area: 5.26e+005 counts

Height: 149325.231 cps

Start Time: 8.26 min

End Time: 8.61 min



Sample Name: "WXX100310-27CH" Sample ID: "111ER" File: "EXS03100081.wif"

Peak Name: "34-Dinitrofluorene" Mass(es): "166.0/166.0 amu"

Comment: "LCMSSEXP\_C" Annotation: "

Sample Index: 1

Sample Name: "WXX100310-27CH"

Concentration: 100. ng/mL

Calculated Conc: 97.5 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 12:27:51 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3 points

IR Window: 30.0 sec

Expected RT: 4.95 min

Use Relative RT: No

Int. Type: Valley

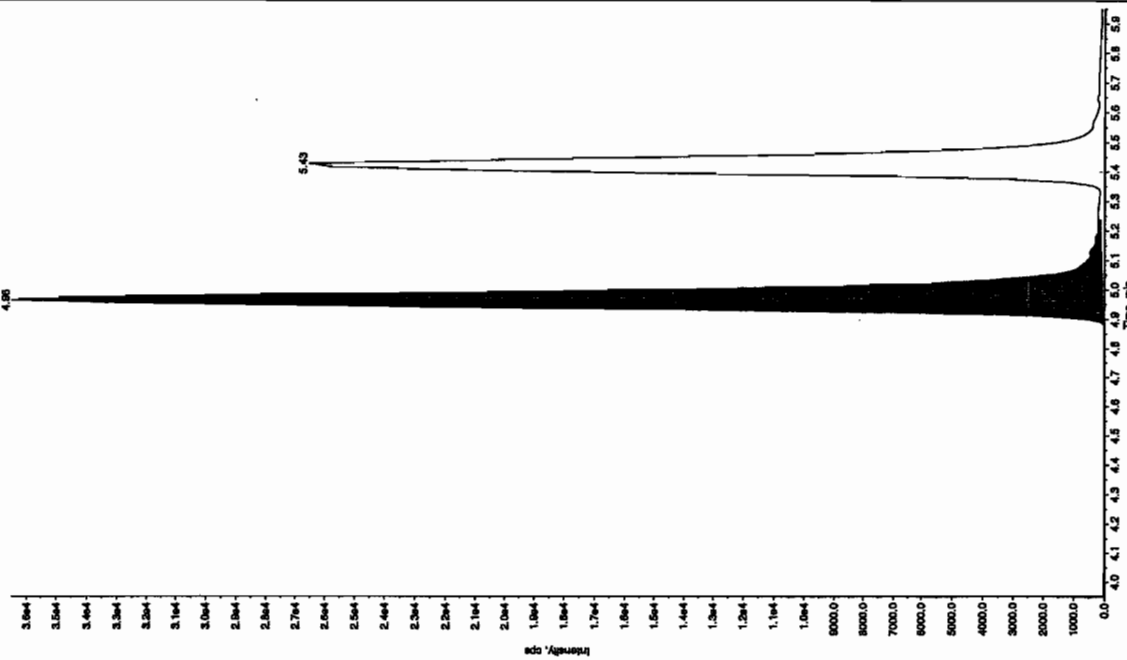
Retention Time: 4.96 min

Area: 1.49e+005 counts

Height: 3647.231 cps

Start Time: 4.87 min

End Time: 5.24 min

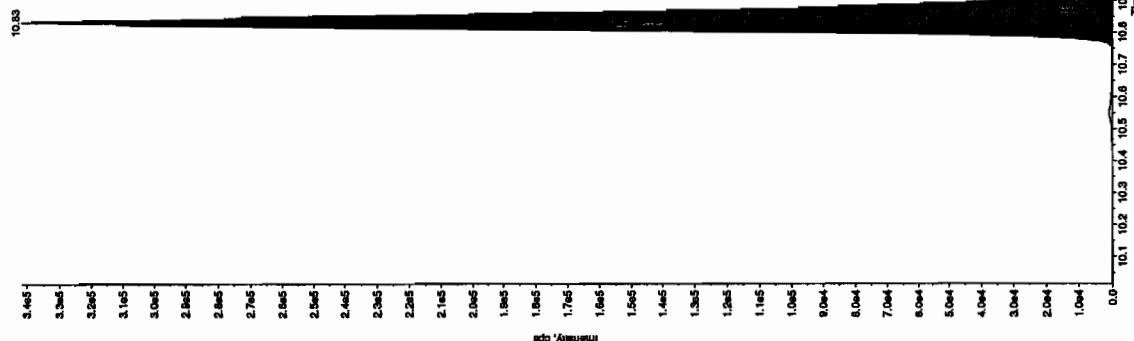


Sample Name: "WXX100310-270R" Sample ID: "HLEP" File: "EX503100081.wif"  
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Concentration: 100 ng/mL  
 Calculated Conc: 93.5 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:27:51 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: 10.8 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 1.29e+006 counts  
 Height: 341350.006 cps  
 Start Time: 10.7 min  
 End Time: 11.1 min

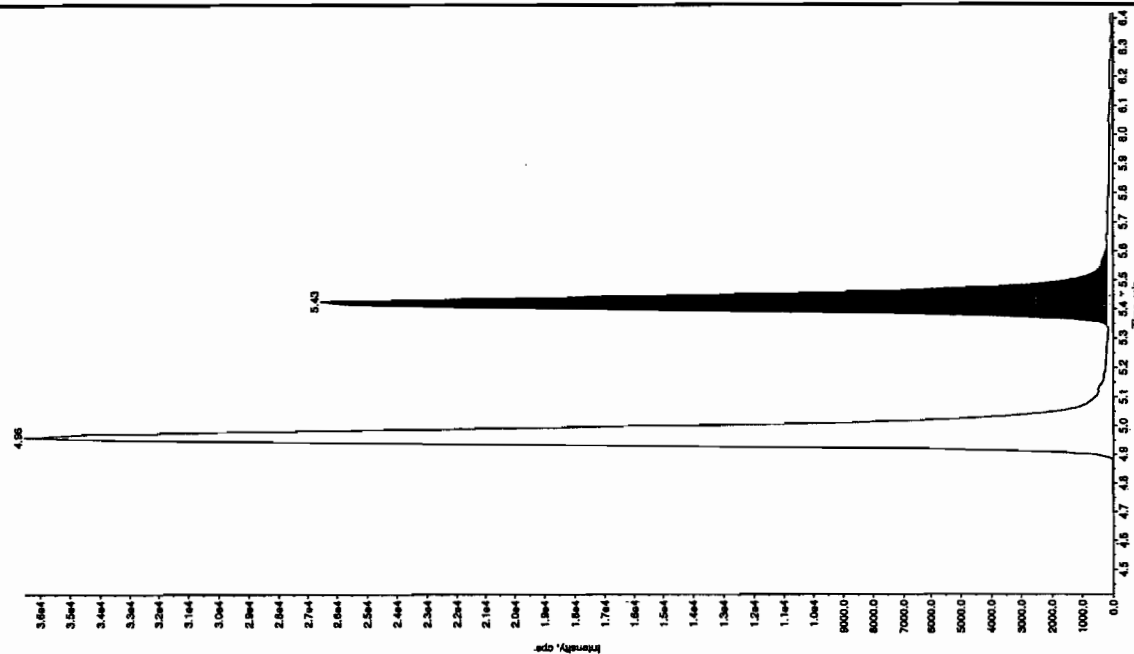


Sample Name: "WXX100310-270R" Sample ID: "HLEP" File: "EX503100081.wif"  
 Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Concentration: 100 ng/mL  
 Calculated Conc: 97.2 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 12:27:51 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: 5.42 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 5.43 min  
 Area: 1.01e+005 counts  
 Height: 26360.556 cps  
 Start Time: 5.34 min  
 End Time: 5.62 min



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

**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100092.wiff

**Analysis Date:** 11-MAR-10 15:20

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	488	98	
2,6-Diamino-4-nitrotoluene	500	475	95	
3,4-Dinitrotoluene	250	260	104	
3,5-Dinitroaniline	500	540	108	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	461	92	

**Recovery Limits:**

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

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

den 3/14/10

Sample Name: "WXX100310-260CV" Sample ID: "11LRF" File: "EX503100692.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LQMSXP\_C" Annotation: "

Sample Index: 1 QC

Concentration: 500. ng/mL

Calculated Conc: 473. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 3:20:35 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2500.00 cps

Min. Peak Width: 0.30 sec

Smoothing Width: 3

RT Window: 30.0 points

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

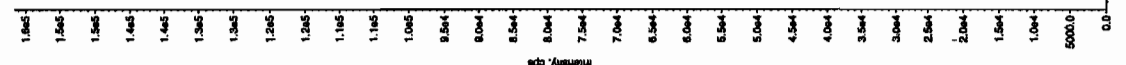
Retention Time: 6.92 min

Area: 6.71e+005 counts

Height: 156559.967 cps

Start Time: 6.83 min

End Time: 7.70 min



3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4

Sample Name: "WXX100310-260CV" Sample ID: "11LRF" File: "EX503100692.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LQMSXP\_C" Annotation: "

Sample Index: 1 QC

Concentration: 500. ng/mL

Calculated Conc: 3/11/2010

Acq. Date: 3:20:35 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 0.00 sec

Smoothing Width: 3

RT Window: 15.0 points

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Valley

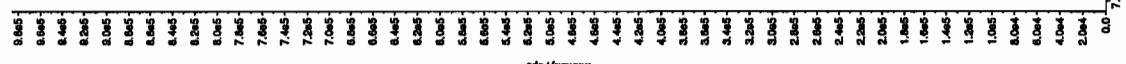
Retention Time: 8.16 min

Area: 3.80e+006 counts

Height: 985013.916 cps

Start Time: 8.07 min

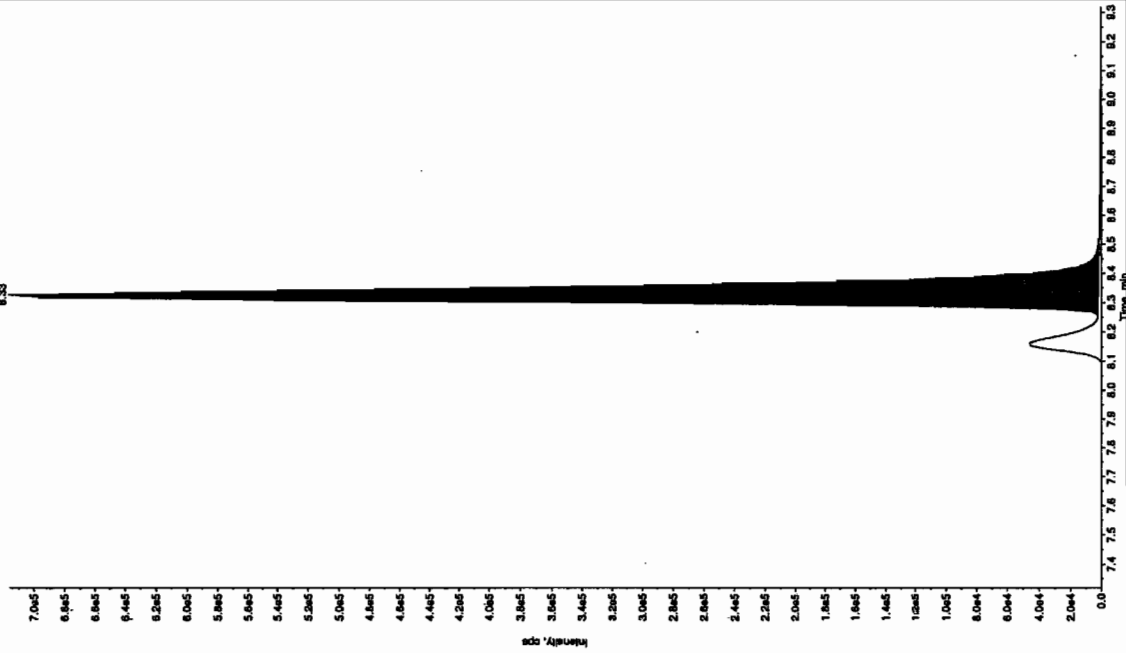
End Time: 8.28 min



Am 03/11/10

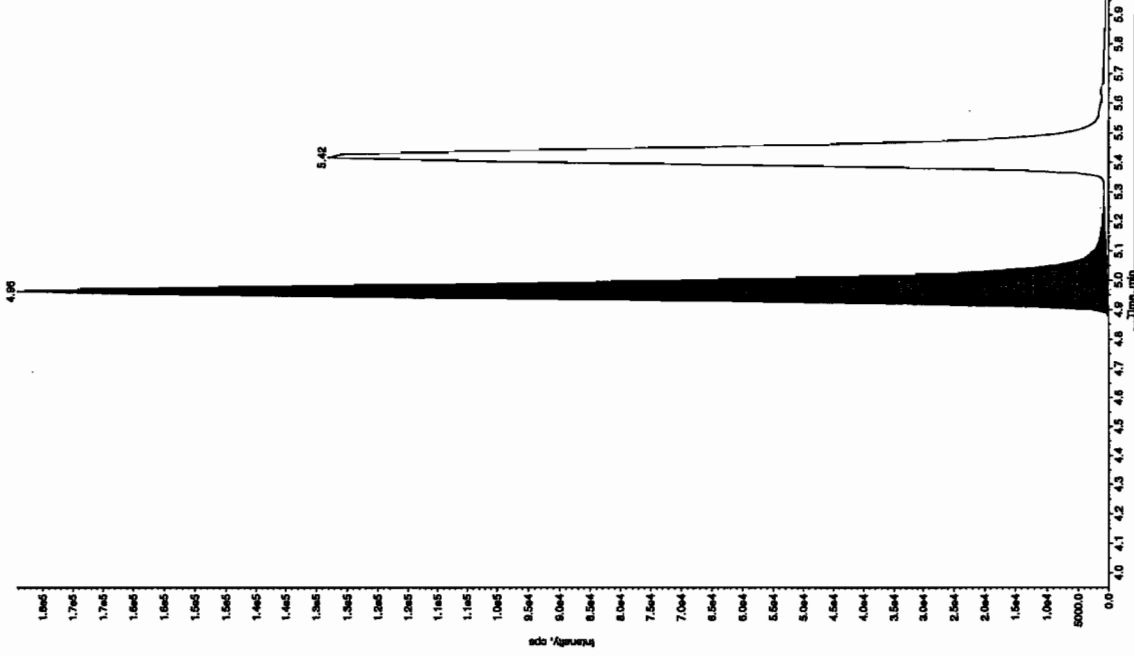
Sample Name: "WXX100310-260CV" Sample ID: "11LER" File: "EXS03100092.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.17/181.9 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 250. ng/mL  
Calculated Conc: 260. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:20:35 PM  
Modified: No  
Proc Algorithm: IntelliQuan - IQA  
Min. Peak Height: 146.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 2.62e+006 counts  
Height: 713975.891 cps  
Start Time: 8.26 min  
End Time: 8.58 min



Sample Name: "WXX100310-260CV" Sample ID: "11LER" File: "EXS03100092.wif"  
Peak Name: "26-Dinitro-4-nitrofluorene" Mass(es): "186.04/6.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 475. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:20:35 PM  
Modified: No  
Proc Algorithm: IntelliQuan - IQA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.96 min  
Area: 7.27e+005 counts  
Height: 179221.359 cps  
Start Time: 4.87 min  
End Time: 5.25 min

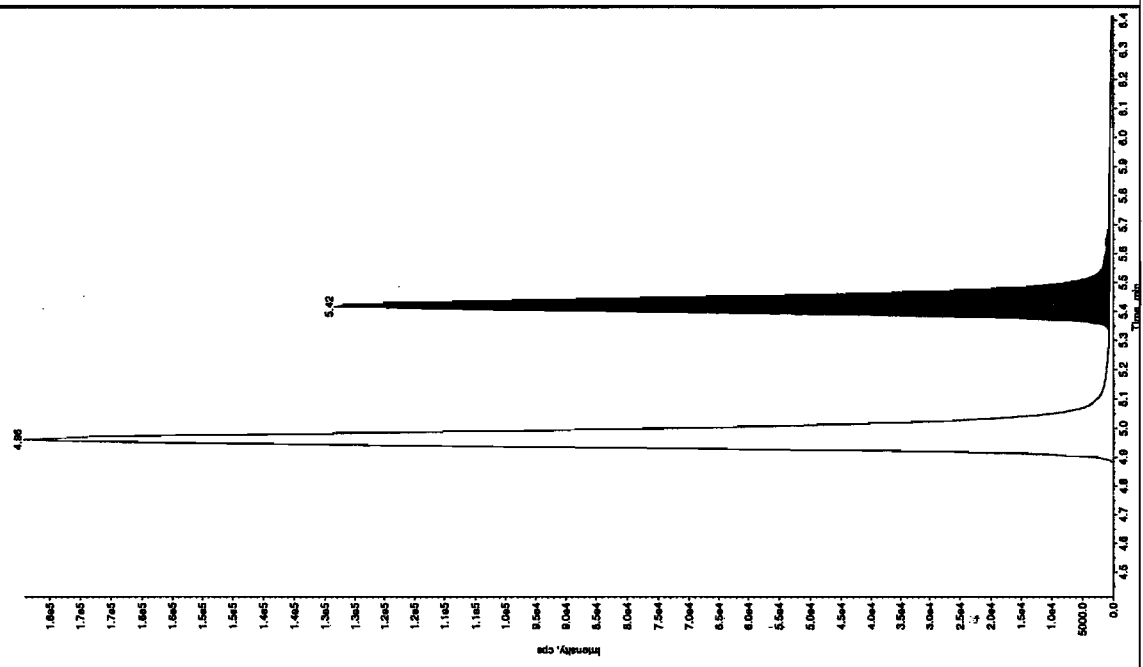




Sample Name: "WXX100310-265CV" Sample ID: "11LER" File: "EX50310092.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.D46.0 amu"

Comment: "LCMSEXP\_C" Annotation: ""  
Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 488. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:20:35 PM

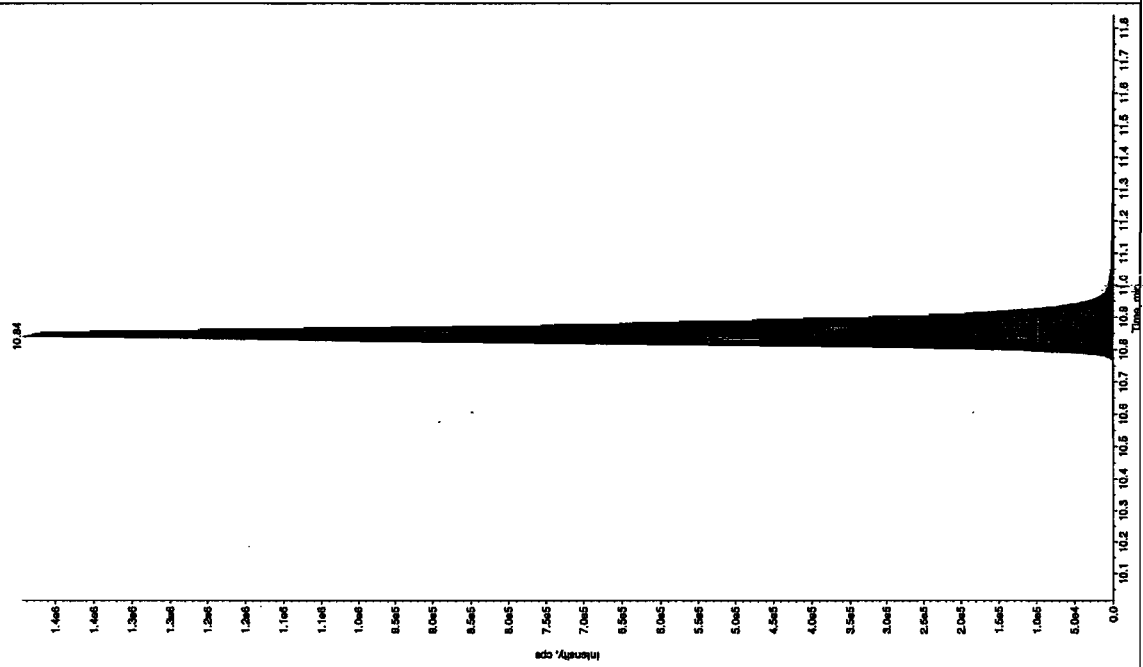
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 350.0 cps  
Min. Peak Width: 30.00 points  
Smoothing Width: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.42 min  
Area: 5.15e+005 counts  
Height: 127567.894 cps  
Start Time: 5.30 min  
End Time: 5.88 min



Sample Name: "WXX100310-265CV" Sample ID: "11LER" File: "EX50310092.wif"  
Peak Name: "tris(o-cresyl) phosphite" Mass(es): "389.161.0 amu"

Comment: "LCMSEXP\_C" Annotation: ""  
Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 491.0 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:20:35 PM

Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 30.00 points  
Smoothing Width: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 5.86e+006 counts  
Height: 1445143.921 cps  
Start Time: 10.7 min  
End Time: 11.2 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100094.wiff

**Analysis Date:** 11-MAR-10 15:51

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,4-Dinitrotoluene	50	48.1	96	
3,5-Dinitroaniline	100	87.8	88	
TATB	100	89.8	90	
tris(o-cresyl) phosphate	100	91.8	92	
2,4-Diamino-6-nitrotoluene	100	90.1	90	
2,6-Diamino-4-nitrotoluene	100	94.6	95	

**Recovery Limits:**

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

Other Target Analytes 70-130%

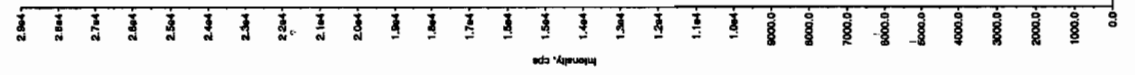
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Run 3/14/10

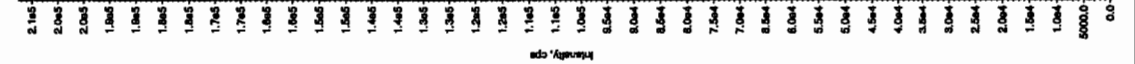
Sample Name: "WXX100310-27CR" Sample ID: "11LER" File: "EXS03100064.wif"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCMSXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: OC  
Concentration: 100. ng/mL  
Calculated Conc: 87.8 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:51:59 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.91 min  
Area: 1.15e+005 counts  
Height: 28975.094 cps  
Start Time: 6.81 min  
End Time: 7.24 min



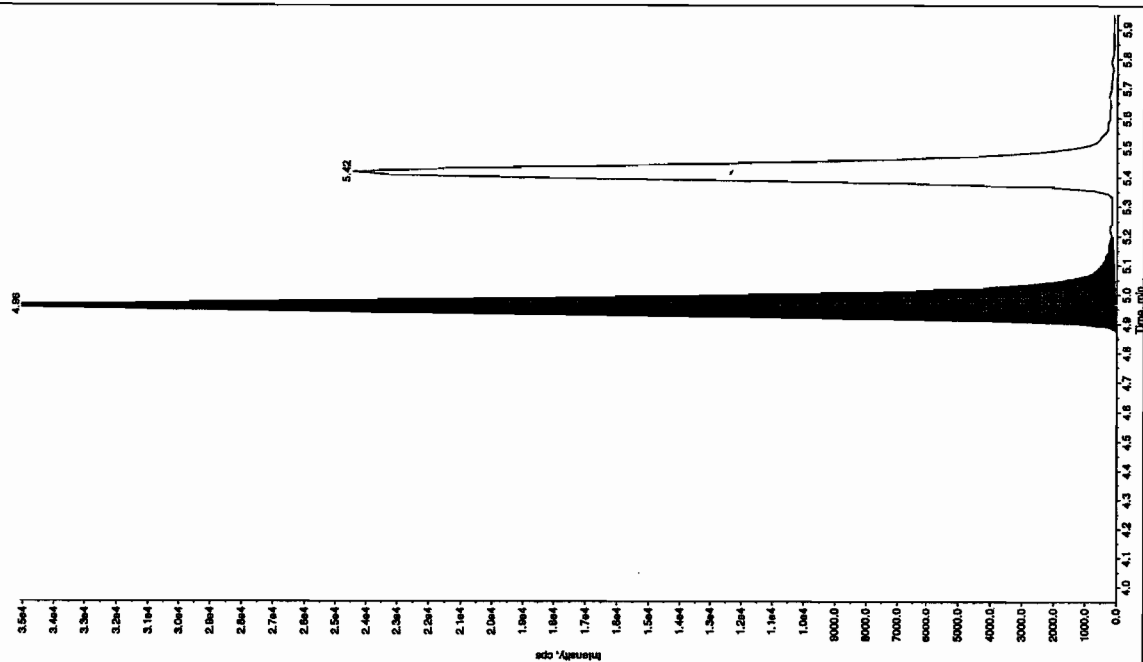
Sample Name: "WXX100310-27CR" Sample ID: "11LER" File: "EXS03100064.wif"  
Peak Name: "35-Chlorocarbonyl" Mass(es): "182.0460.0 amu"  
Comment: "LCMSXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: OC  
Concentration: 100. ng/mL  
Calculated Conc: 87.8 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:51:59 PM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.16 min  
Area: 7.94e+005 counts  
Height: 207574.371 cps  
Start Time: 8.07 min  
End Time: 8.28 min



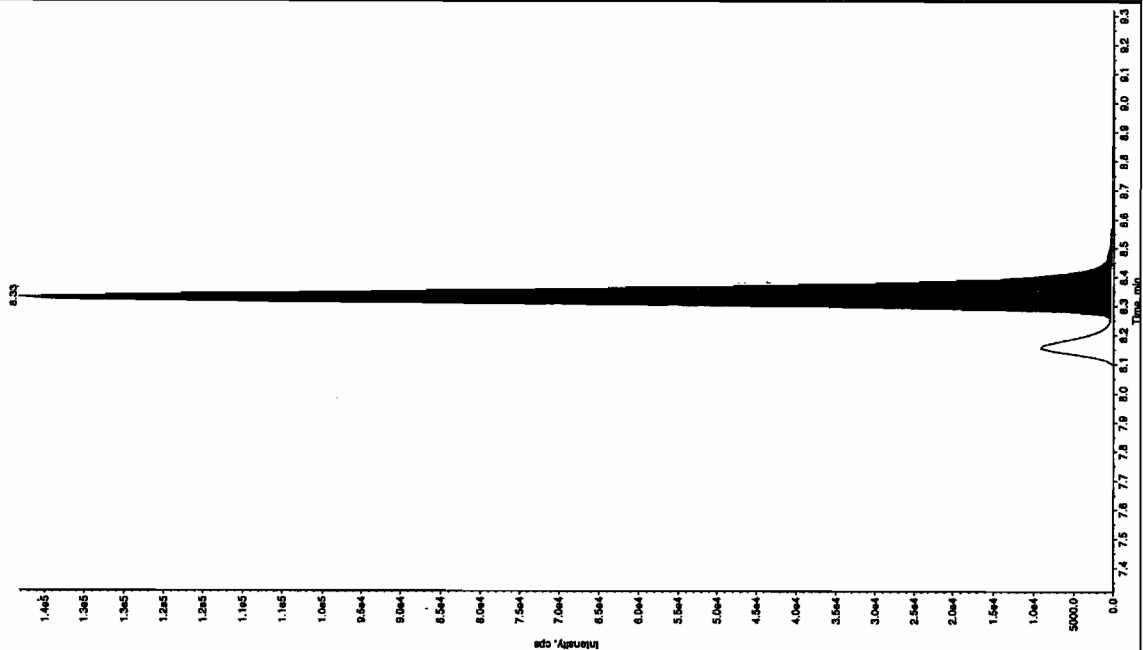
Sample Name: "WXX100310-270R" Sample ID: "H1LER" File: "EX8303100094.wif"  
 Peak Name: "26-Diamino-4-nitrofluorene" Mass(es): "166.046.0 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: OC  
 Concentration: 100 ng/mL  
 Calculated Conc: 94.6 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 3:51:59 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 1.45e+005 counts  
 Height: 35046.891 cps  
 Start Time: 4.83 min  
 End Time: 5.20 min



Sample Name: "WXX100310-270R" Sample ID: "H1LER" File: "EX8303100094.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "162.151.9 amu"  
 Comment: "LONSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: OC  
 Concentration: 50.0 ng/mL  
 Calculated Conc: 48.1 ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 3:51:59 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: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 3.17e+005 counts  
 Height: 137829.188 cps  
 Start Time: 8.26 min  
 End Time: 8.60 min

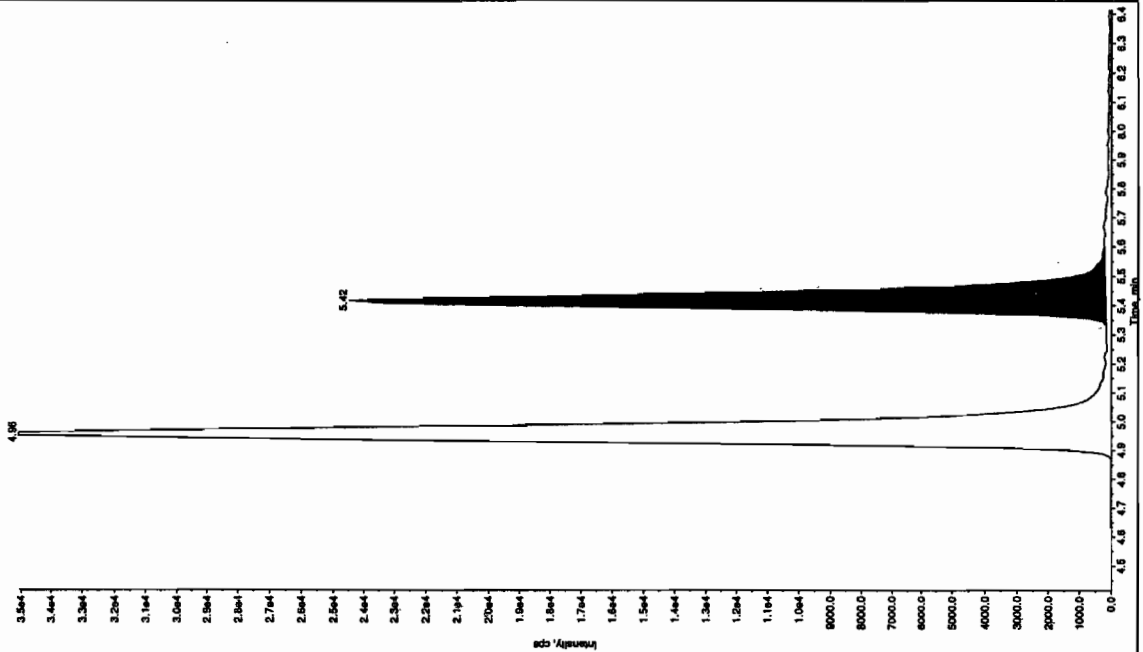


Sample Name: "WXX100310-27C91" Sample ID: "JILER" File: "EXS03100094.will"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCMS-EXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 90.1 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:51:59 PM

Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 350.0 cps  
Min. Peak Width: 3.00 points  
Smoothing Width: 30.0 sec  
RT Window: 5.42 min  
Expected RT: No  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 5.42 min  
Area: 9.52e+004 counts  
Height: 24293.383 cps  
Start Time: 5.26 min  
End Time: 5.61 min

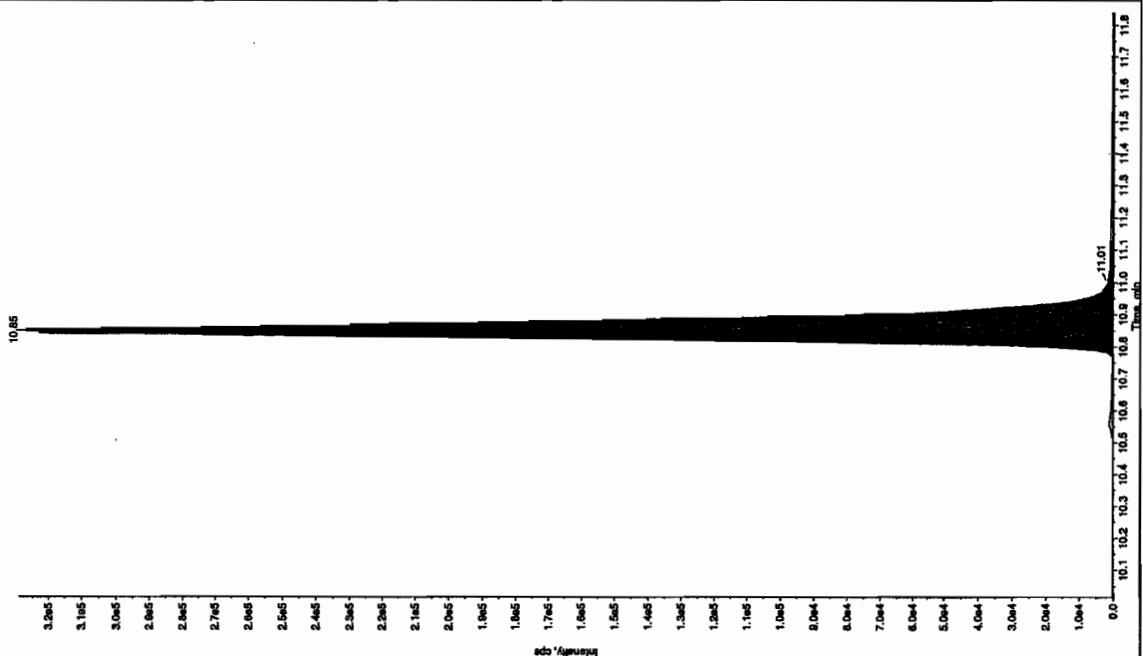


Sample Name: "WXX100310-27C91" Sample ID: "JILER" File: "EXS03100094.will"  
Peak Name: "bis(o-cresyl) phosphite" Mass(es): "369.1691.0 amu"  
Comment: "LCMS-EXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 91.8 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 3:51:59 PM

Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.0 cps  
Min. Peak Width: 3.00 points  
Smoothing Width: 30.0 sec  
RT Window: 10.8 min  
Expected RT: No  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 10.9 min  
Area: 1.27e+006 counts  
Height: 328995.087 cps  
Start Time: 10.8 min  
End Time: 11.1 min



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100103.wiff

**Analysis Date:** 11-MAR-10 18:13

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	499	100	
2,6-Diamino-4-nitrotoluene	500	493	99	
3,4-Dinitrotoluene	250	258	103	
3,5-Dinitroaniline	500	527	105	
TATB	500	473	95	
tris(o-cresyl) phosphate	500	467	93	

**Recovery Limits:**

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

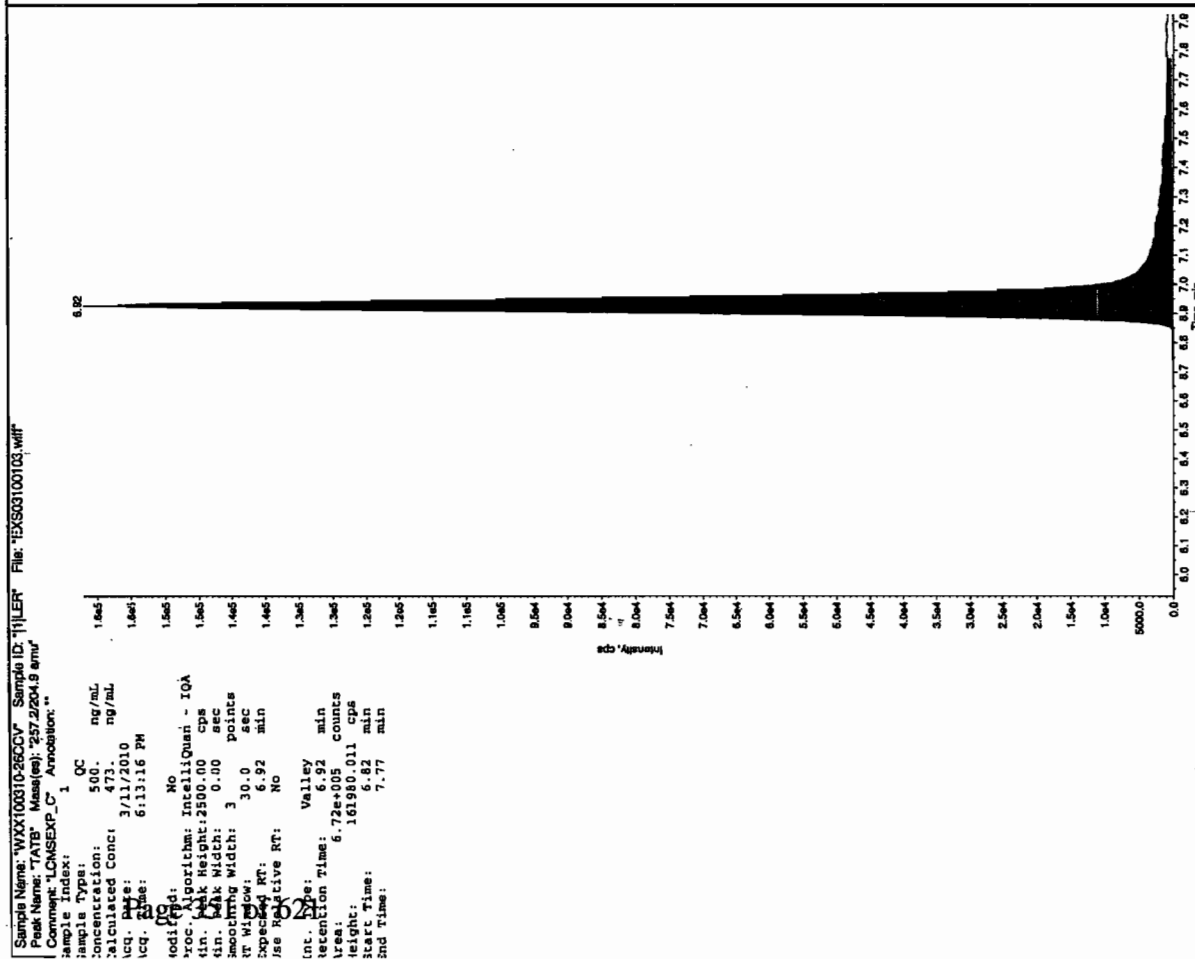
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

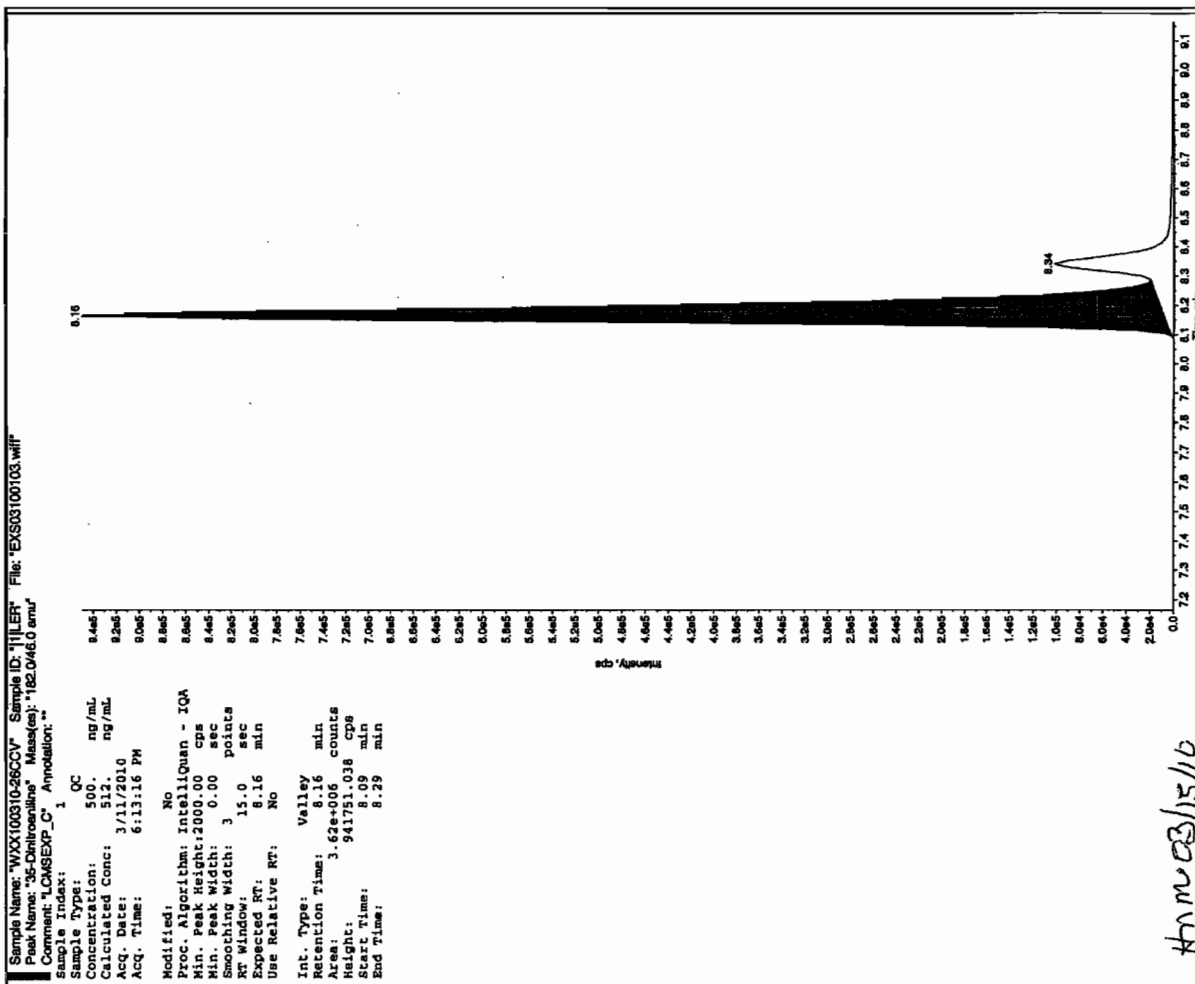
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 31/3/10



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



After 03/15/10

after Jan 3/14/10

Sample Name: "WXX100310-260CV" Sample ID: "HILF" File: "EXS03100103.wif"

Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: OC

Concentration: 500. ng/mL

Calculated Conc: 473. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IOA

Pin. Peak Height: 2500.00 cps

Pin. Peak Width: 0.00 sec

Smoothing Width: 3 points

RT Window: 10.0 sec

Expected RT: 6.92 min

Use Relative RT: No

Int. Type: Valley

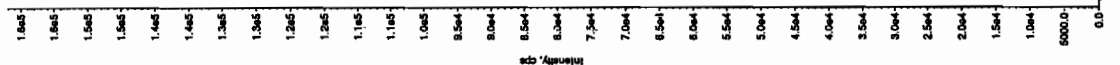
Retention Time: 6.92 min

Area: 6.72e+005 counts

Height: 161980.011 cps

Start Time: 6.82 min

End Time: 7.77 min



Sample Name: "WXX100310-260CV" Sample ID: "HILF" File: "EXS03100103.wif"

Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: OC

Concentration: 500. ng/mL

Calculated Conc: 527. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: Yes

RT Window: 15.0 sec

Expected RT: 8.16 min

Use Relative RT: No

Int. Type: Manual

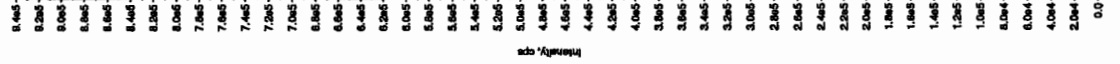
Retention Time: 8.17 min

Area: 3.71e+006 counts

Height: 951287.743 cps

Start Time: 8.09 min

End Time: 8.29 min





Sample Name: "WXX100310-260CV" Sample ID: "HILLER" File: "EX503100103.wif"

Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 250. ng/mL

Calculated Conc: 258. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 140.00 cps

Min. Peak Width: 3.00 sec

Smoother Width: 3.00 points

RT Window: 15.0 sec

Expected RT: 8.32 min

Use Relative RT: No

Int. Type: Valley

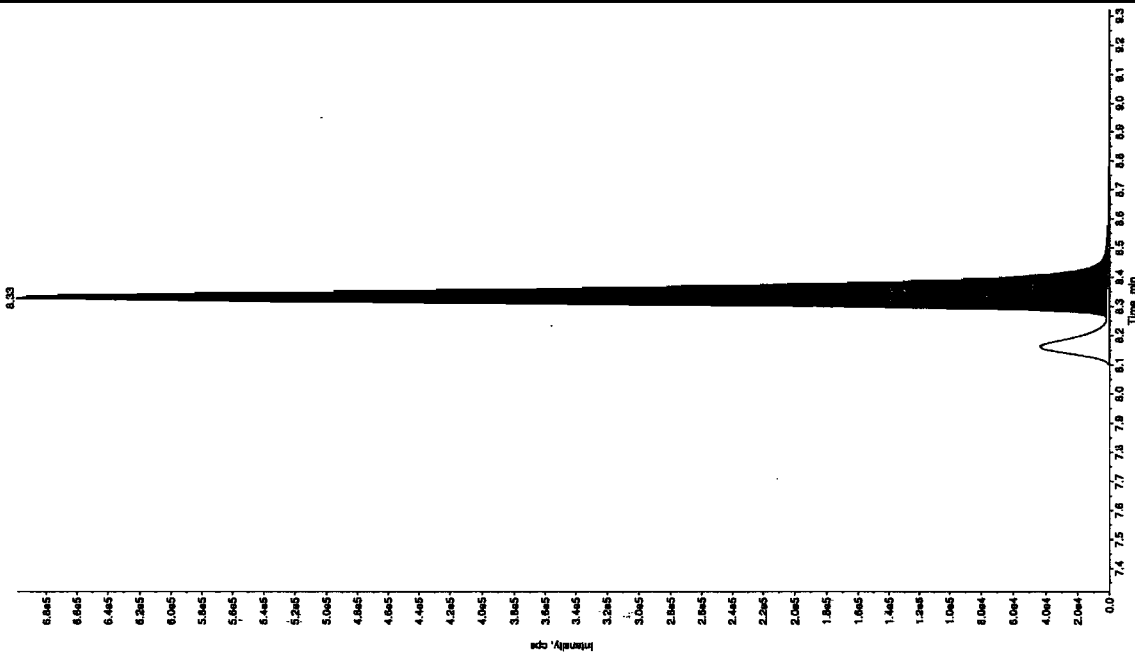
Retention Time: 8.33 min

Area: 2.60e+006 counts

Height: 697389.465 cps

Start Time: 8.26 min

End Time: 8.66 min



Sample Name: "WXX100310-260CV" Sample ID: "HILLER" File: "EX503100103.wif"

Peak Name: "28-Diamino-4-nitrotoluene" Mass(es): "186.0/48.0 amu"

Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1

Sample Type: QC

Concentration: 500. ng/mL

Calculated Conc: 493. ng/mL

Acq. Date: 3/11/2010

Acq. Time: 6:13:16 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 450.00 cps

Min. Peak Width: 0.00 sec

Smoother Width: 3.00 points

RT Window: 30.0 sec

Expected RT: 4.95 min

Use Relative RT: No

Int. Type: Valley

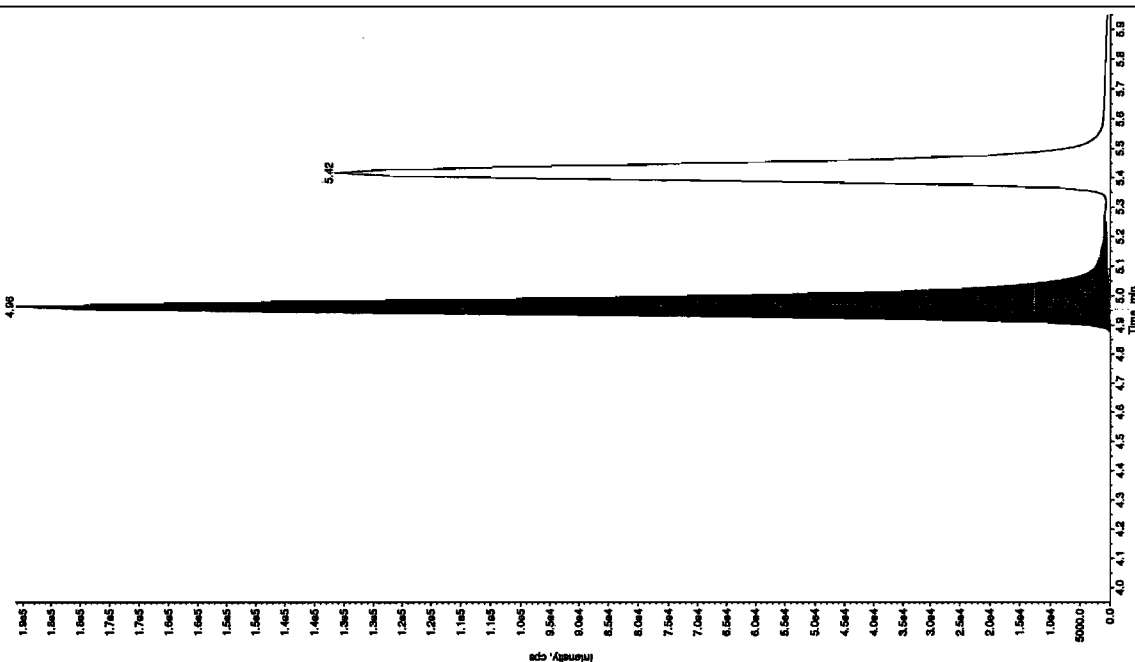
Retention Time: 4.96 min

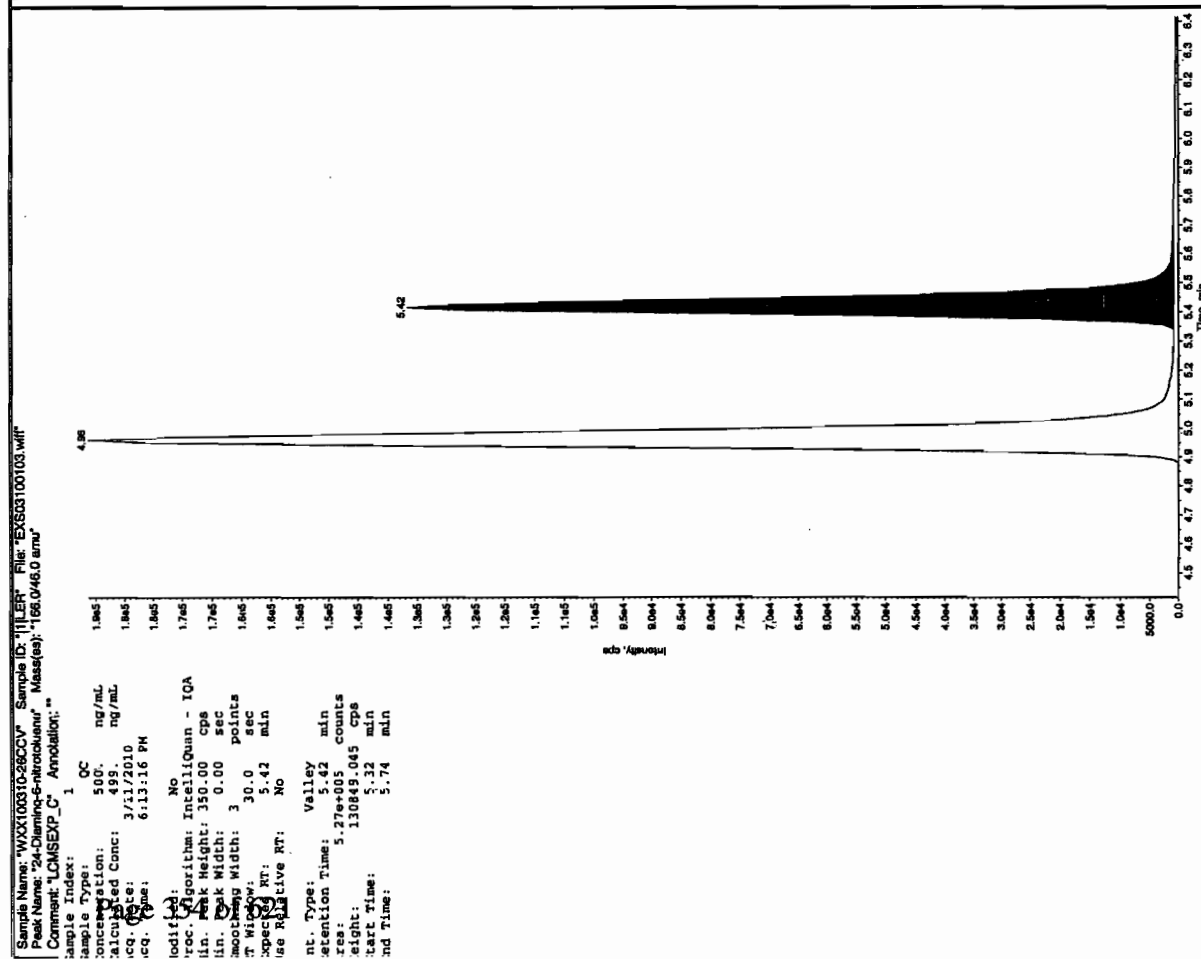
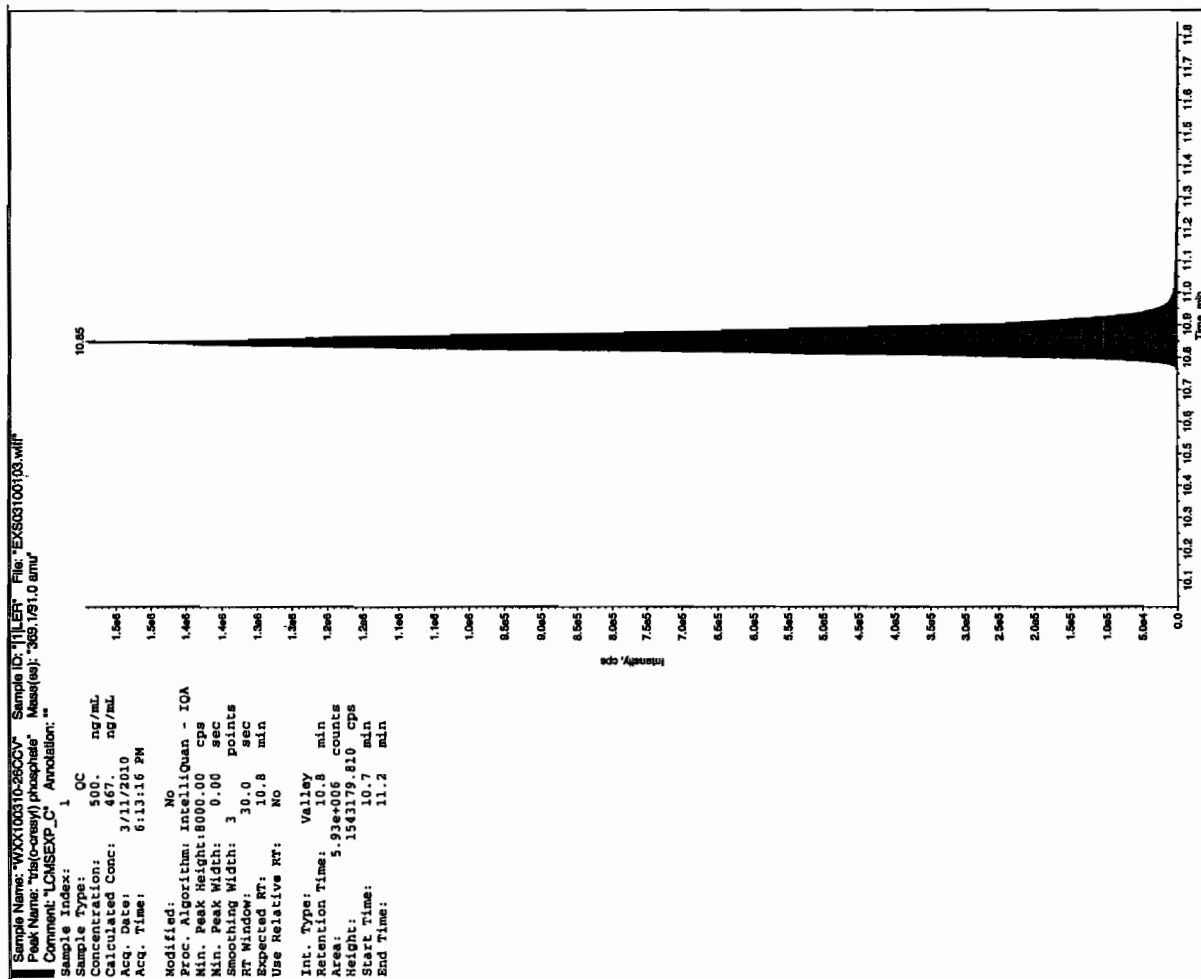
Area: 7.55e+005 counts

Height: 186099.518 cps

Start Time: 4.87 min

End Time: 5.25 min





**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100105.wiff

**Analysis Date:** 11-MAR-10 18:44

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	98.1	98	
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	47.4	95	
3,5-Dinitroaniline	100	86.9	87	
TATB	100	90	90	
tris(o-cresyl) phosphate	100	91.7	92	

**Recovery Limits:**

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

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

200 3/14/10

Sample Name: "WXX100310-27CR1" Sample ID: "111LRR" File: "EXS03100105.wiff"

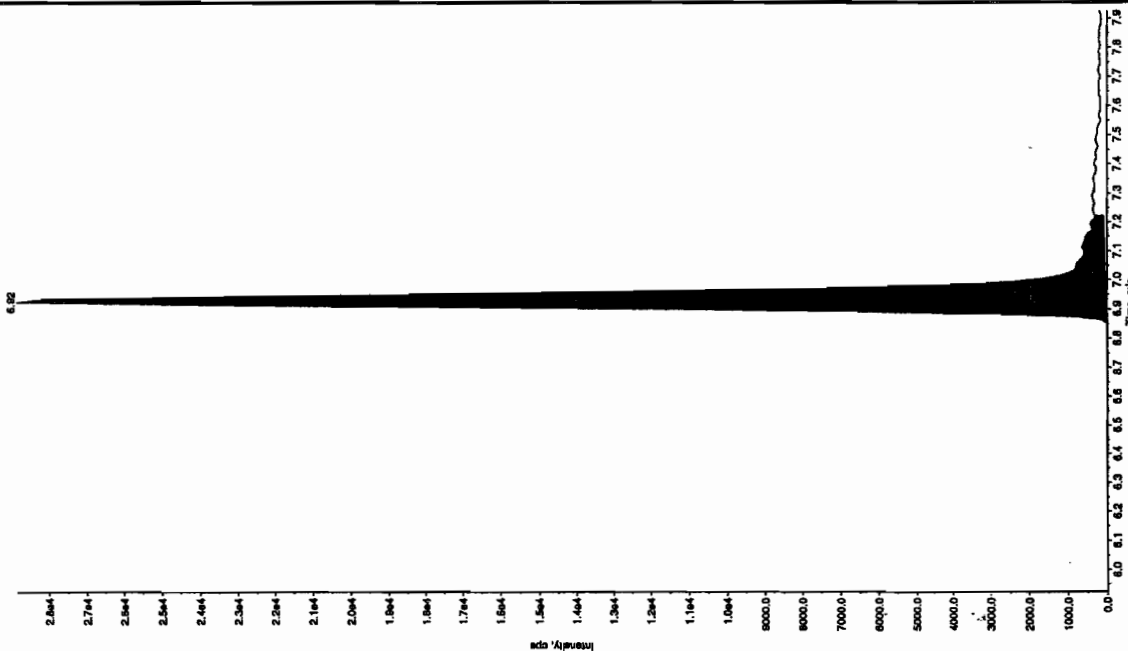
Peak Name: "TATB" Mass(es): "257.2204.9 amu"

Comment: "LCMS EXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 90.0 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:44:40 PM

Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 2500.0 cps  
Min. Peak Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 6.92 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 6.92 min  
Area: 1.16e+005 counts  
Height: 28811.375 cps  
Start Time: 6.84 min  
End Time: 7.22 min



Sample Name: "WXX100310-27CR1" Sample ID: "111LRR" File: "EXS03100105.wiff"

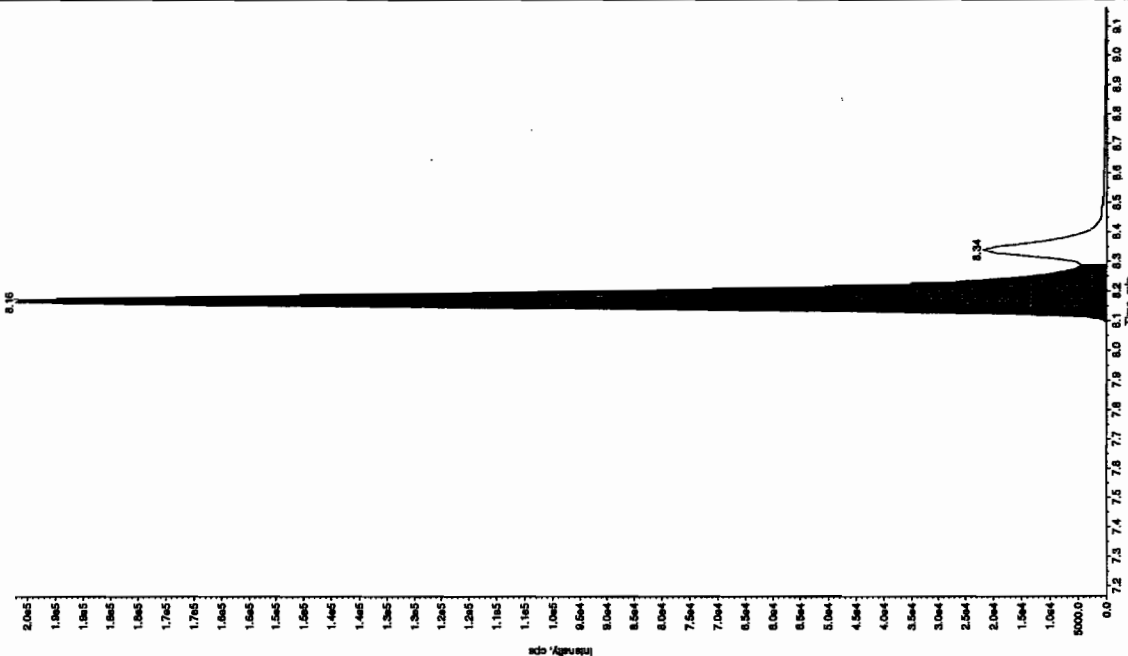
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"

Comment: "LCMS EXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 86.9 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:44:40 PM

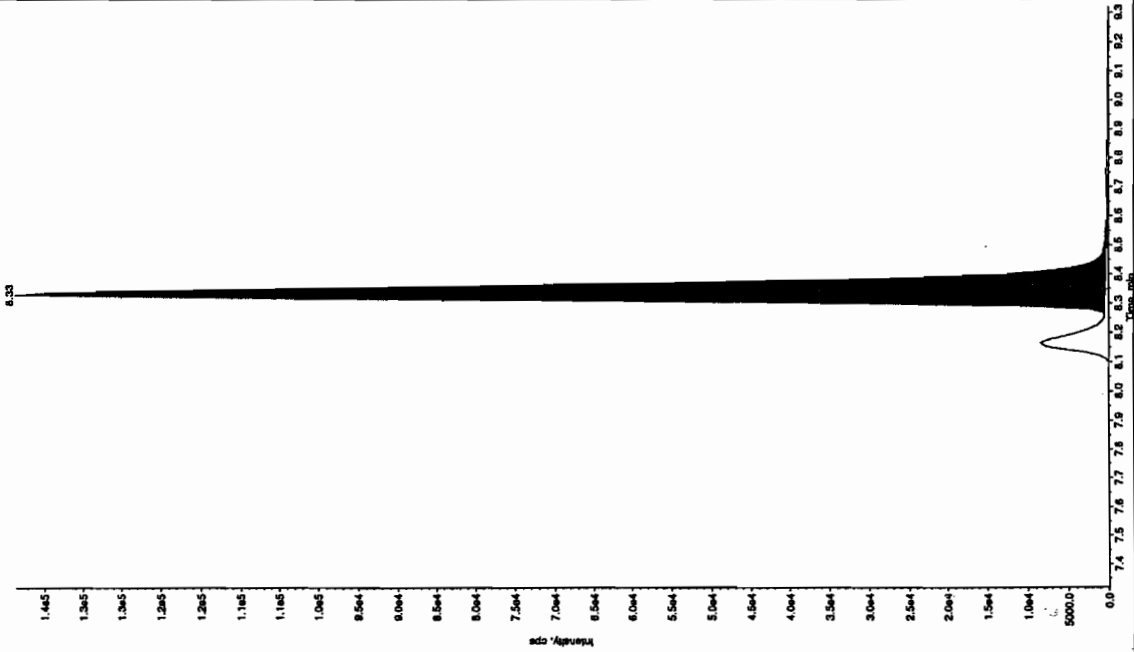
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 2000.0 cps  
Min. Peak Width: 3.00 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.16 min  
Area: 7.88e+005 counts  
Height: 19702.973 cps  
Start Time: 8.05 min  
End Time: 8.39 min



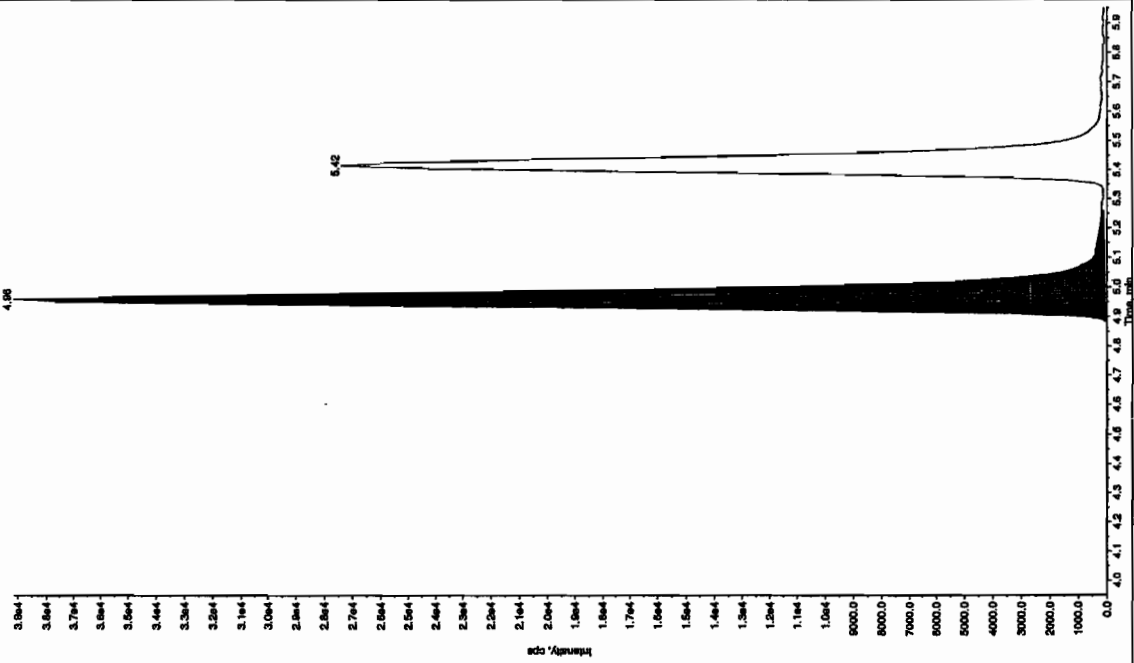
Sample Name: "WXX100310-27CR1" Sample ID: "111ER" File: "EX93100105.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 50.0 ng/mL  
Calculated Conc: 47.4 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:44:40 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: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 5.10e+005 counts  
Height: 138147.934 cps  
Start Time: 8.26 min  
End Time: 8.59 min



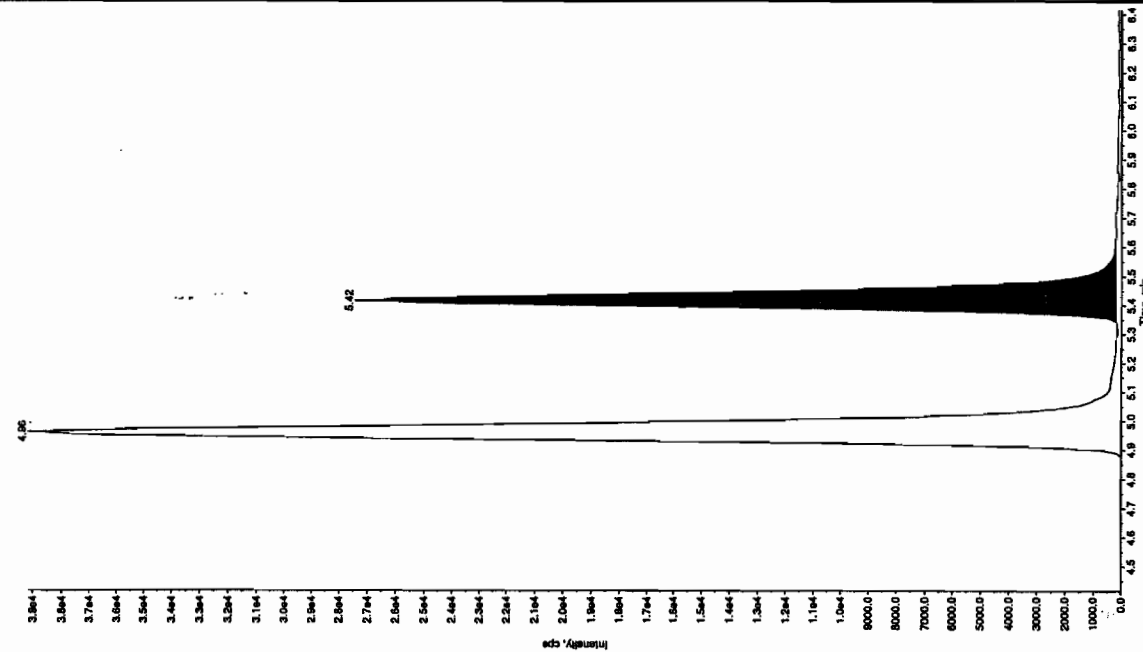
Sample Name: "WXX100310-27CR1" Sample ID: "111ER" File: "EX93100105.wif"  
Peak Name: "25-Diamino-4-nitrofluorene" Mass(es): "166.0/166.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 102. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:44:40 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: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.96 min  
Area: 1.57e+005 counts  
Height: 39103.901 cps  
Start Time: 4.87 min  
End Time: 5.26 min



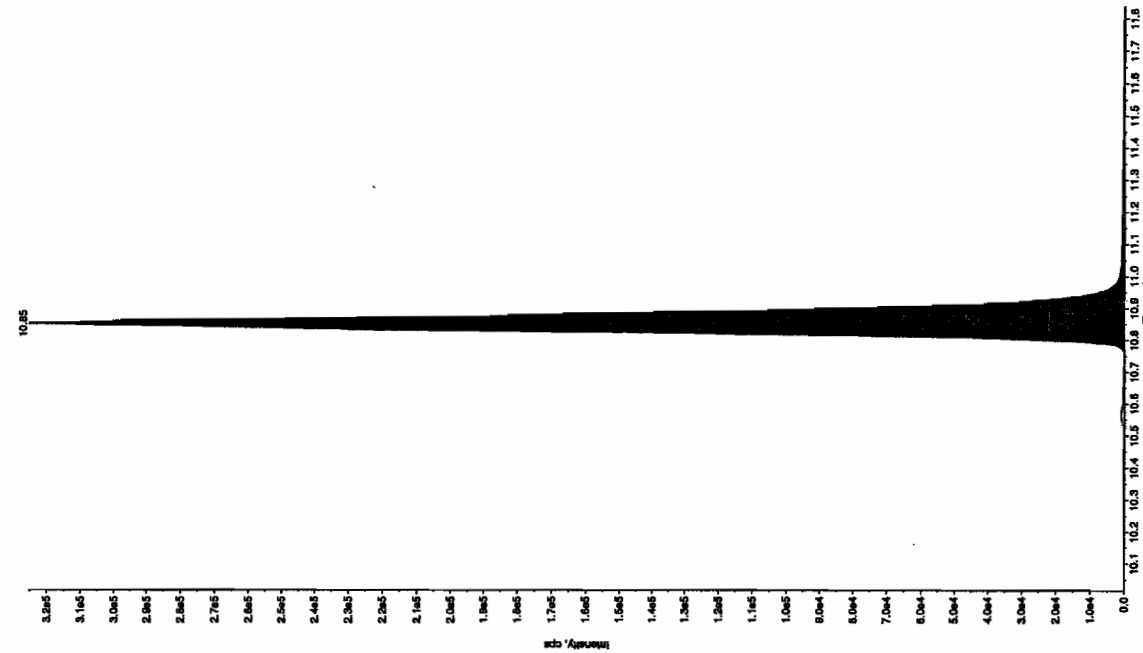
Sample Name: "WXX100310-270R" Sample ID: "11LER" File: "EXS03100106.wif"  
Peak Name: "24-Diamino-6-nitrocoumarin" Mass(es): "166.046.0 amu"  
Comment: "LONEXP\_G" Annotation: "

Sample Index: 1  
Sample Type: OC  
Concentration: 100 ng/mL  
Calculated Conc: 98.1 ng/mL  
Acq. Date: 3/13/2010  
Acq. Time: 6:44:40 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: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.42 min  
Area: 1.04e+05 counts  
Height: 27178.761 cps  
Start Time: 5.34 min  
End Time: 5.60 min



Sample Name: "WXX100310-270R" Sample ID: "11LER" File: "EXS03100106.wif"  
Peak Name: "bis(cis-9) phosphatidic acid" Mass(es): "385.151.0 amu"  
Comment: "LONEXP\_G" Annotation: "

Sample Index: 1  
Sample Type: OC  
Concentration: 100 ng/mL  
Calculated Conc: 91.7 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 6:44:40 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: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 1.29e+06 counts  
Height: 324973.297 cps  
Start Time: 10.8 min  
End Time: 11.1 min



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100116.wiff

**Analysis Date:** 11-MAR-10 21:37

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	515	103	
2,6-Diamino-4-nitrotoluene	500	511	102	
3,4-Dinitrotoluene	250	269	107	
3,5-Dinitroaniline	500	536	107	
TATB	500	476	95	
tris(o-cresyl) phosphate	500	474	95	

**Recovery Limits:**

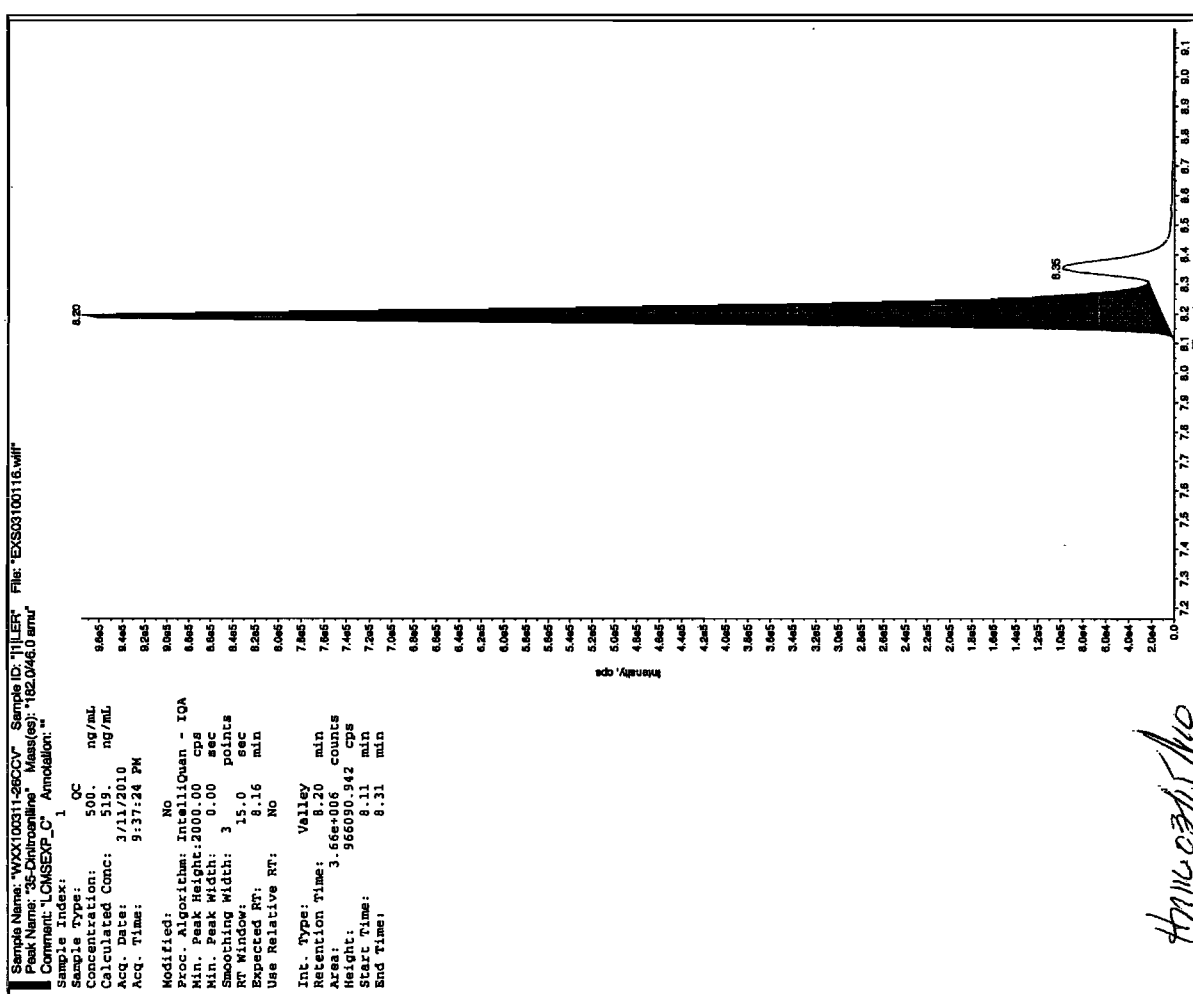
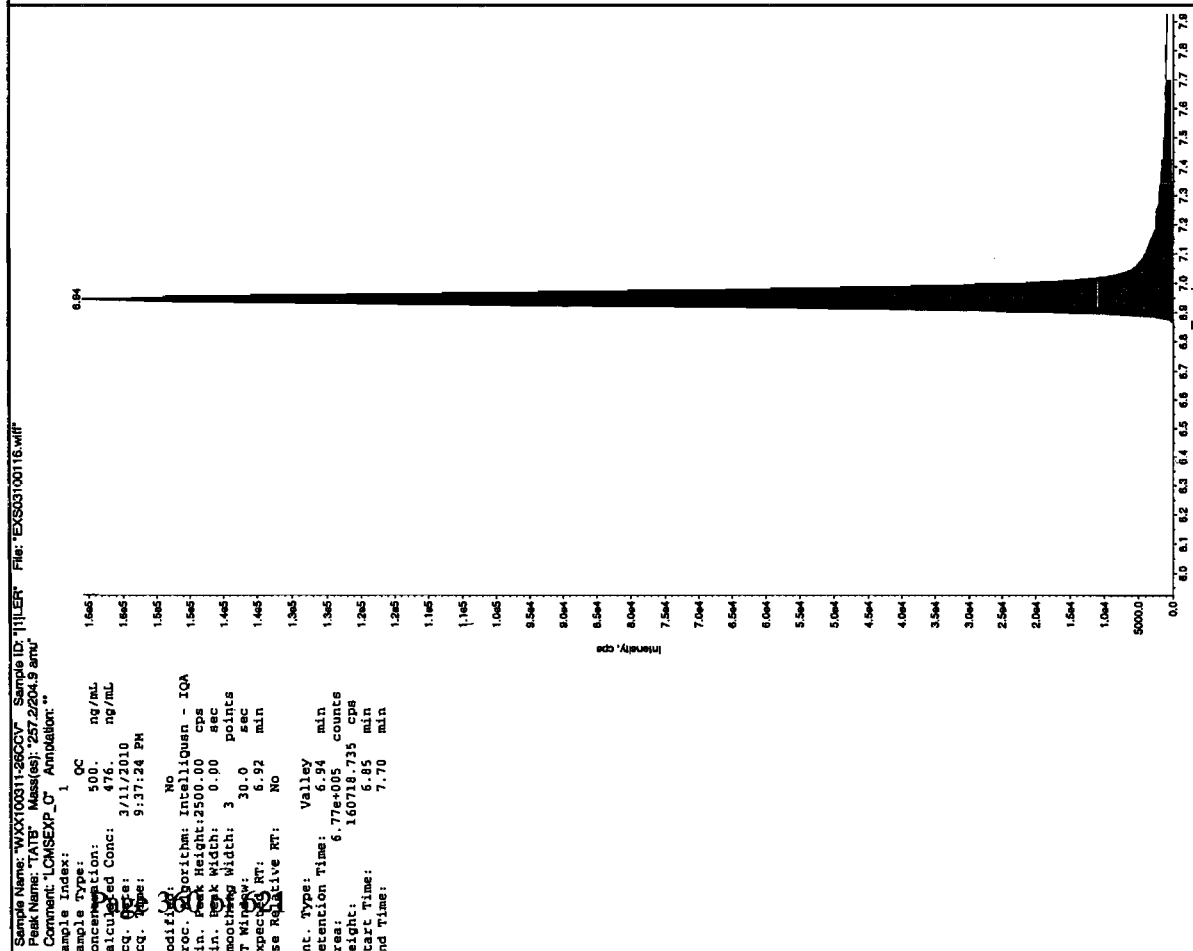
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,  
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

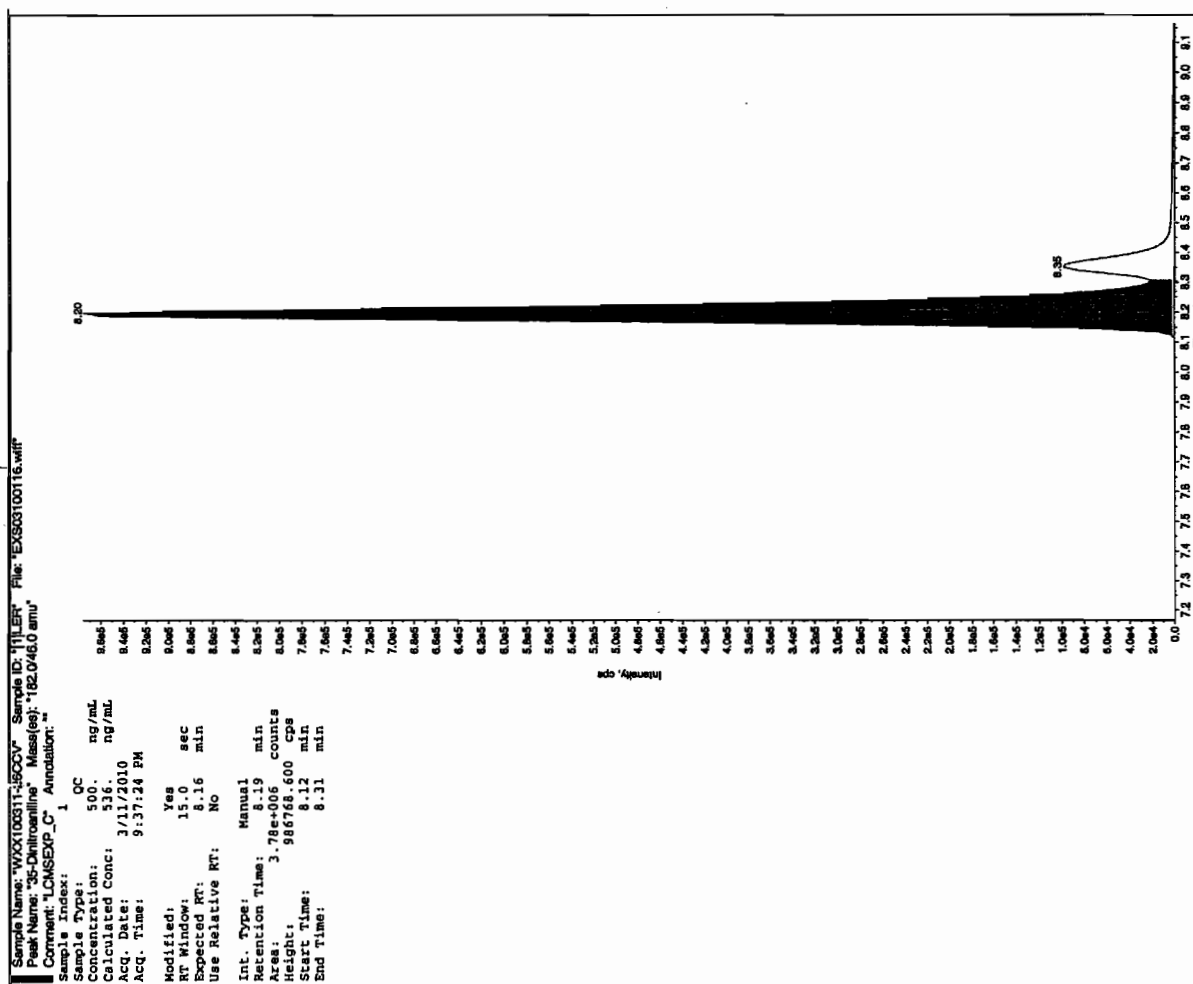
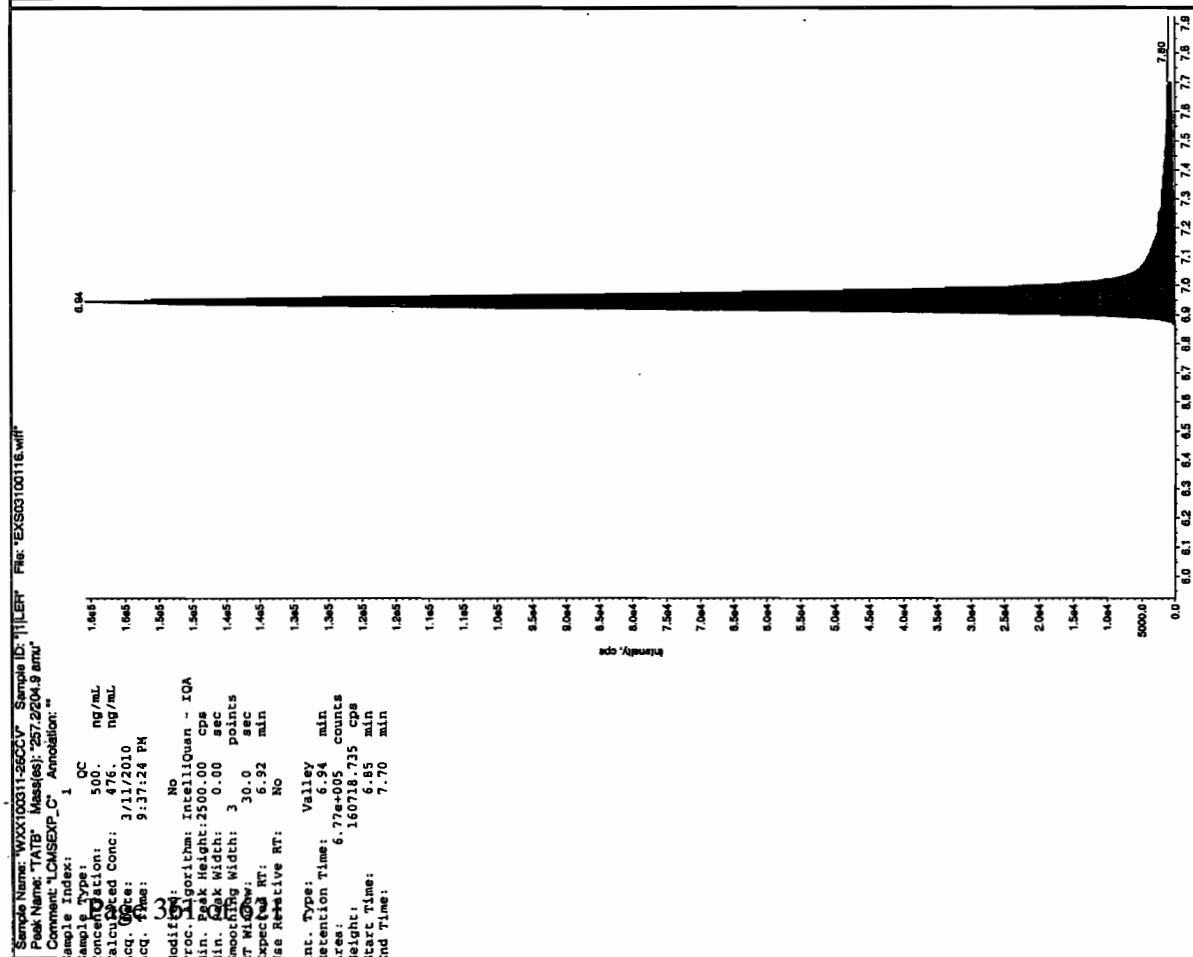
Before Jan 31/3/10



Handwritten signature



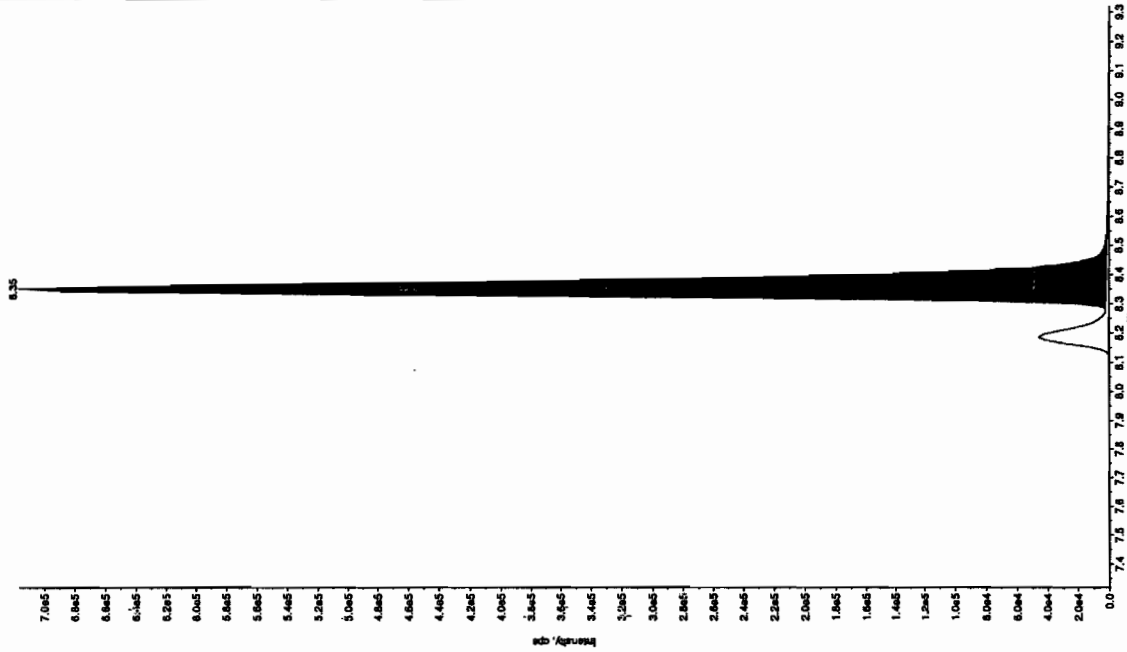
after for 3/14/10



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

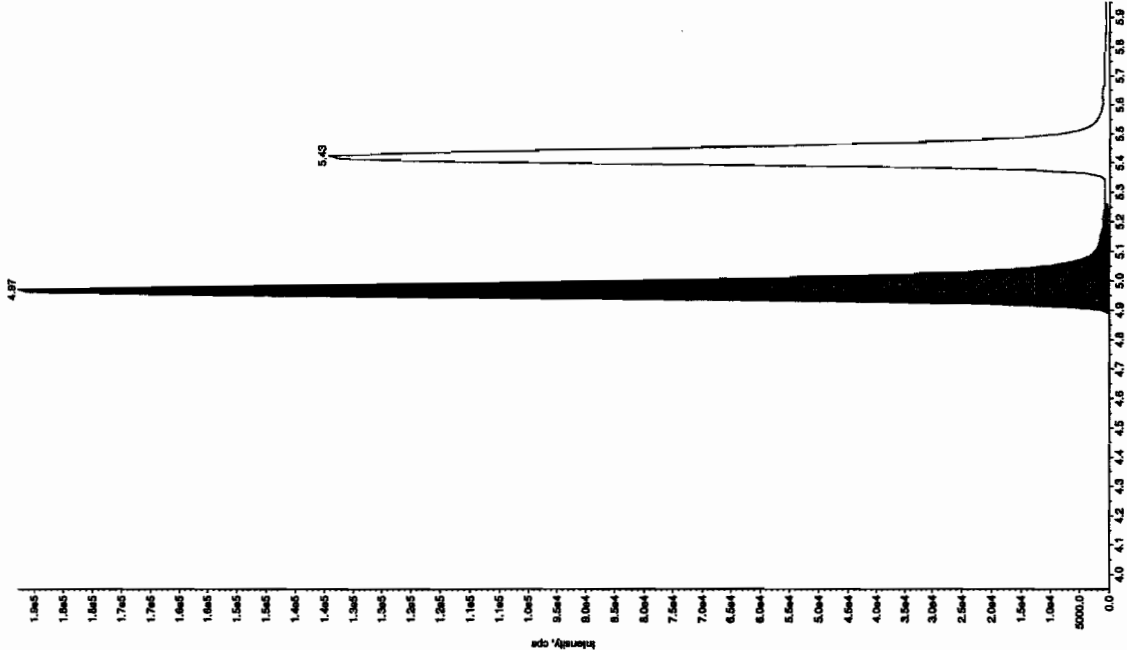
Sample Name: "WXX100311-280CV" Sample ID: "JLER" File: "EXSG3100116.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"  
 Comment: "LCMSXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 511. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 9:37:24 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.97 min  
 Height: 7.82e+005 counts  
 Area: 187794.464 cps  
 Start Time: 4.86 min  
 End Time: 5.26 min



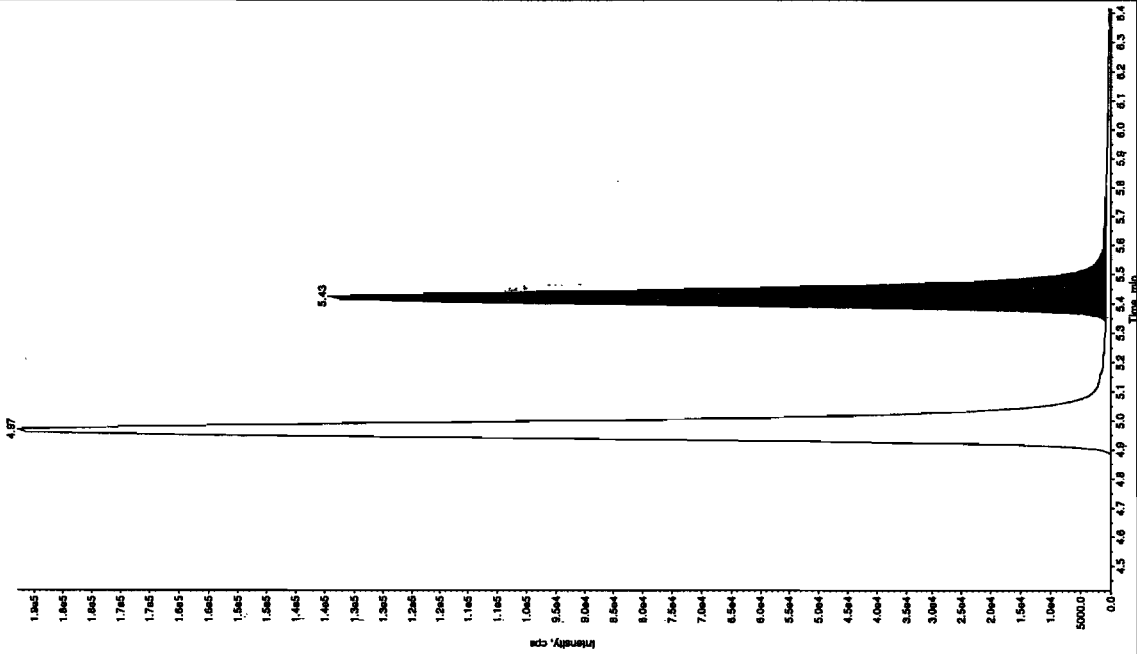
Sample Name: "WXX100311-280CV" Sample ID: "JLER" File: "EXSG3100116.wif"  
 Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "166.0463.0 amu"  
 Comment: "LCMSXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 511. ng/mL  
 Acq. Date: 3/11/2010  
 Acq. Time: 9:37:24 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.43 min  
 Height: 7.82e+005 counts  
 Area: 187794.464 cps  
 Start Time: 4.86 min  
 End Time: 5.26 min



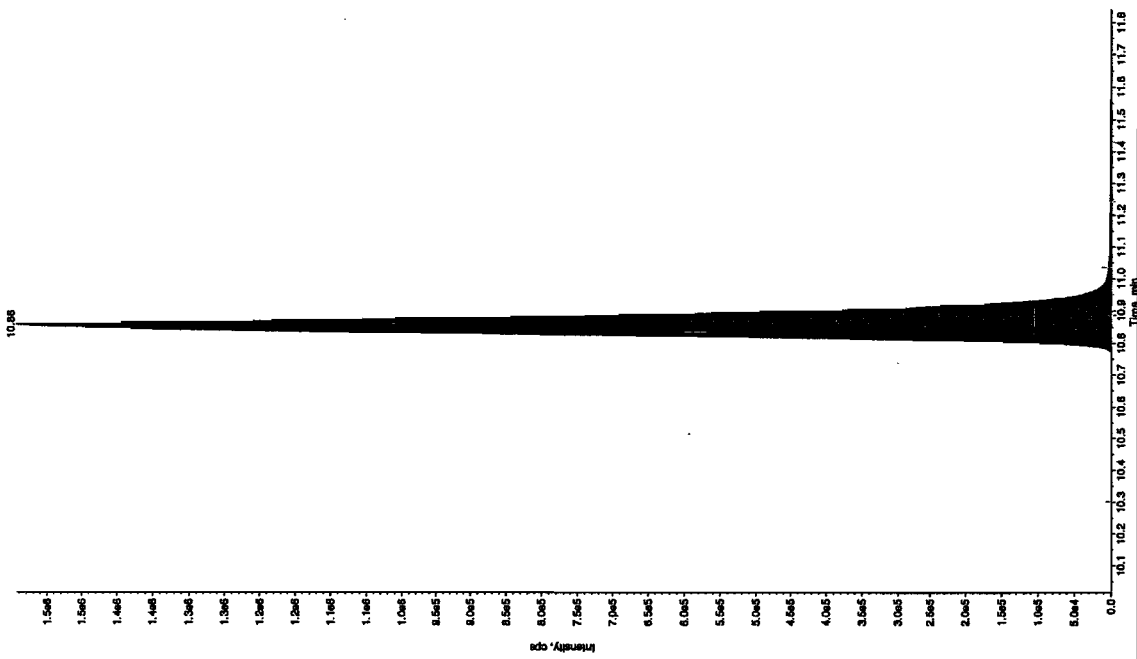
Sample Name: "WXX100311-260CV" Sample ID: "JILERR" File: "EX503100116.wif"  
Peak Name: "24-Diamino-6-nitrochlorane" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 515. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 9:37:24 PM  
Modified: No  
Proc Algorithm: IntelliQuan - IQA  
Min. Peak Height: 35.00 cps  
Min. Peak Width: 0.00 sec  
Smoother Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 5.44e+005 counts  
Height: 133492.126 cps  
Start Time: 5.31 min  
End Time: 5.79 min



Sample Name: "WXX100311-260CV" Sample ID: "JILERR" File: "EX503100116.wif"  
Peak Name: "tri-(o-cresyl) phosphate" Mass(es): "359.191.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 474. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 9:37:24 PM  
Modified: No  
Proc Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 0.00 sec  
Smoother Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 6.01e+006 counts  
Height: 1542330.444 cps  
Start Time: 10.8 min  
End Time: 11.1 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100118.wiff

**Analysis Date:** 11-MAR-10 22:08

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	105	105	
2,6-Diamino-4-nitrotoluene	100	103	103	
3,4-Dinitrotoluene	50	51.5	103	
3,5-Dinitroaniline	100	86.8	87	
TATB	100	90.8	91	
tris(o-cresyl) phosphate	100	93.4	93	

**Recovery Limits:**

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

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

for 3/14/10

Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX503100118.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: 90.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:08:44 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 3.00 points

Smoothing Width: 30.0 points

RT Window: 6.92 min

Expected RT: No

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.94 min

Area: 1.17e+005 counts

Height: 30019.915 cps

Start Time: 6.83 min

End Time: 7.30 min

6.94

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Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX503100118.wif"

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

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 86.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:08:48 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 3.00 points

Smoothing Width: 30.0 points

RT Window: 8.16 min

Expected RT: No

Use Relative RT: No

Int. Type: Valley

Retention Time: 8.11 min

Area: 7.87e+005 counts

Height: 201497.391 cps

Start Time: 8.08 min

End Time: 8.30 min

8.19

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Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX503100118.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: 90.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:08:44 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 3.00 points

Smoothing Width: 30.0 points

RT Window: 6.92 min

Expected RT: No

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.94 min

Area: 1.17e+005 counts

Height: 30019.915 cps

Start Time: 6.83 min

End Time: 7.30 min

6.94

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Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX503100118.wif"

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

Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1

Sample Type: QC

Concentration: 100. ng/mL

Calculated Conc: 86.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:08:48 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 3.00 points

Smoothing Width: 30.0 points

RT Window: 8.16 min

Expected RT: No

Use Relative RT: No

Int. Type: Valley

Retention Time: 8.11 min

Area: 7.87e+005 counts

Height: 201497.391 cps

Start Time: 8.08 min

End Time: 8.30 min

8.19

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Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX503100118.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: 90.8 ng/mL

Acq. Date: 3/11/2010

Acq. Time: 10:08:44 PM

Modified: No

Proc. Algorithm: IntelliQuan - IQA

Min. Peak Height: 2000.00 cps

Min. Peak Width: 3.00 points

Smoothing Width: 30.0 points

RT Window: 6.92 min

Expected RT: No

Use Relative RT: No

Int. Type: Valley

Retention Time: 6.94 min

Area: 1.17e+005 counts

Height: 30019.915 cps

Start Time: 6.83 min

End Time: 7.30 min

6.94

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Sample Name: "WXX100311-27CR1" Sample ID: "11LER" File: "EXS03100118.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
Sample Type: OC  
Concentration: 50.0 ng/mL  
Calculated Conc: 51.5 ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 10:08:48 PM

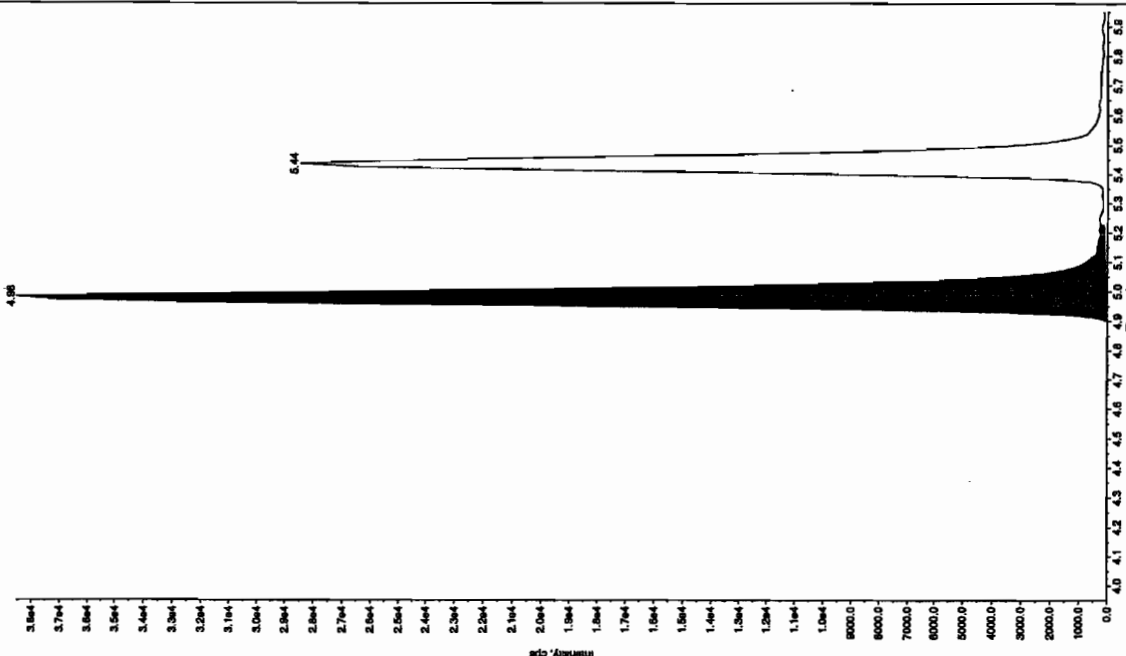
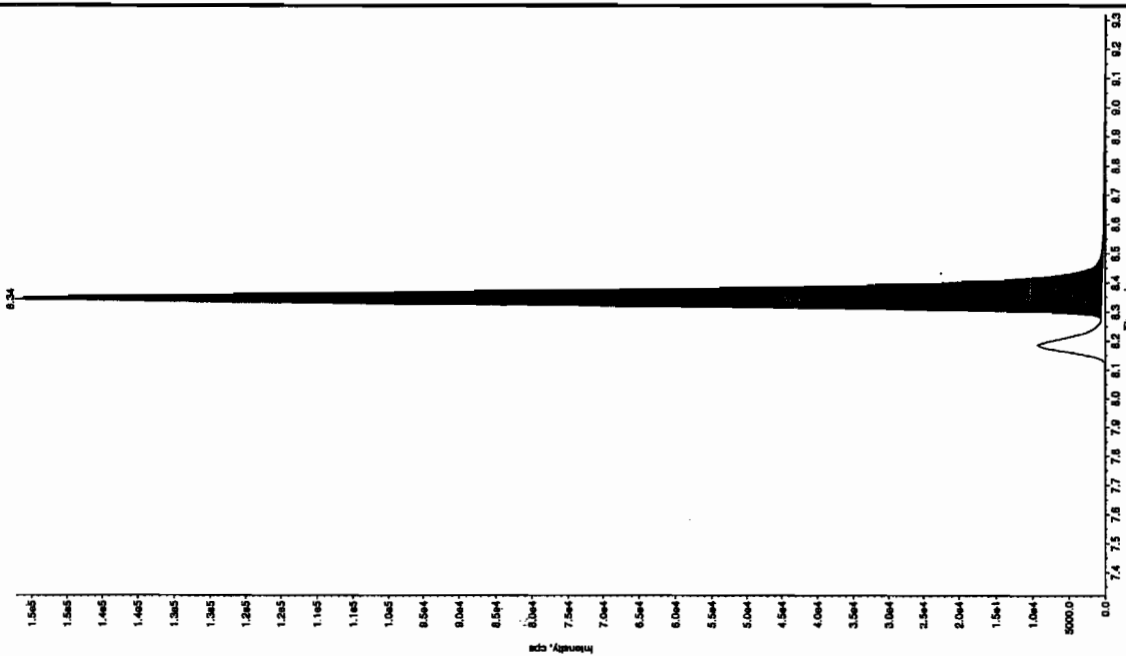
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 1460.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.34 min  
Area: 5.52e+005 counts  
Height: 151624.329 cps  
Start Time: 8.28 min  
End Time: 8.65 min

Sample Index: 1  
Sample Type: OC  
Concentration: 100. ng/mL  
Calculated Conc: 103. ng/mL  
Acq. Date: 3/11/2010  
Acq. Time: 10:08:48 PM

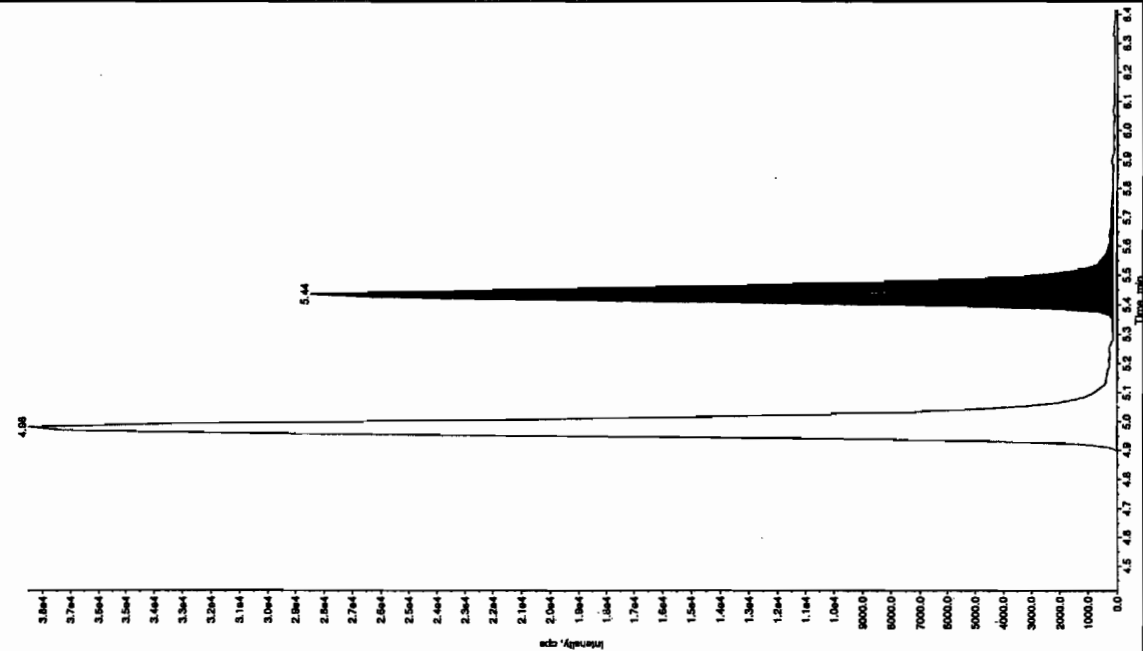
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 4.98 min  
Area: 1.58e+005 counts  
Height: 38464.371 cps  
Start Time: 4.89 min  
End Time: 5.23 min



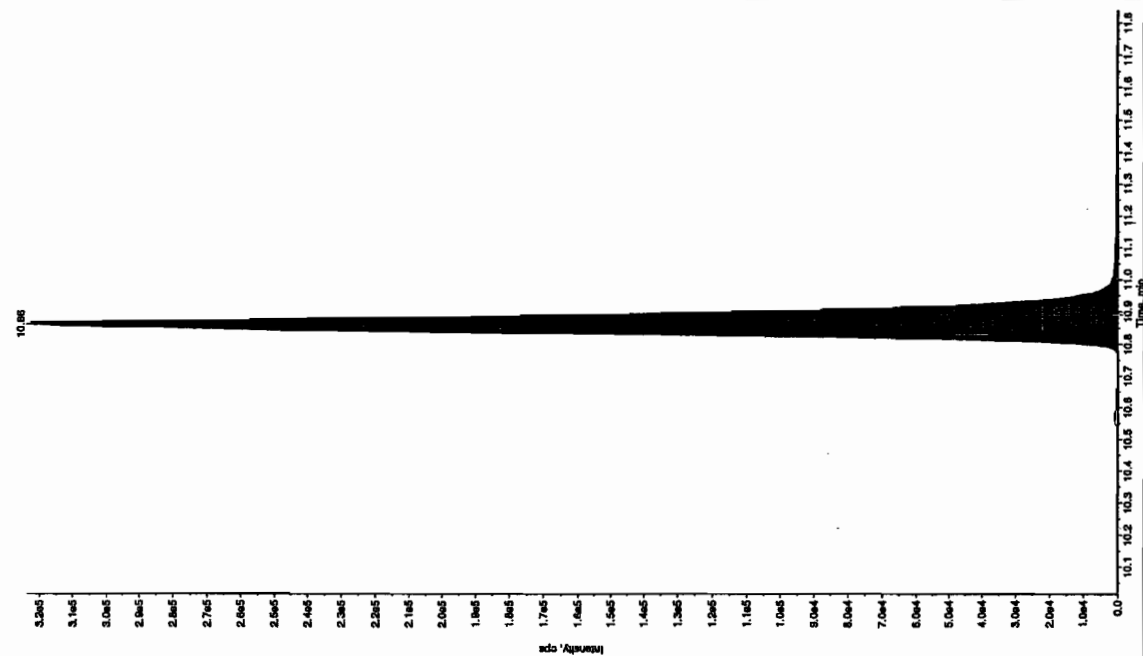
Sample Name: "WXX100311-27CR" Sample ID: "11LEP" File: "EXS03100118.wif"  
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "168.046.0 amu"  
 Comment: "LCMSEXP\_C Annotation: "

Sample Index: 1 QC  
 Sample Type: 100 ng/mL  
 Concentration: 105 ng/mL  
 Calculated Conc: 3/11/2010  
 Acq. Date: 10:08:48 PM  
 Acq. Time: 10:08:48 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 In. Peak Height: 350.00 cps  
 In. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.42 min  
 Use Relative RT: No  
 IDT Type: Valley  
 Retention Time: 5.42 min  
 Area: 1.0e+005 counts  
 Height: 28304.878 cps  
 Start Time: 5.30 min  
 End Time: 5.81 min



Sample Name: "WXX100311-27CR" Sample ID: "11LEP" File: "EXS03100118.wif"  
 Peak Name: "24-Dinitro-6-nitrofluorene" Mass(es): "366.161.0 amu"  
 Comment: "LCMSEXP\_C Annotation: "

Sample Index: 1 QC  
 Sample Type: 100 ng/mL  
 Concentration: 93.4 ng/mL  
 Calculated Conc: 3/11/2010  
 Acq. Date: 10:08:48 PM  
 Acq. Time: 10:08:48 PM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 In. Peak Height: 8000.00 cps  
 In. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 IDT Type: Valley  
 Retention Time: 10.9 min  
 Area: 1.29e+006 counts  
 Height: 323352.875 cps  
 Start Time: 10.7 min  
 End Time: 11.2 min



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100128.wiff

**Analysis Date:** 12-MAR-10 00:45

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	530	106	
2,6-Diamino-4-nitrotoluene	500	521	104	
3,4-Dinitrotoluene	250	261	104	
3,5-Dinitroaniline	500	533	107	
TATB	500	457	91	
tris(o-cresyl) phosphate	500	489	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%

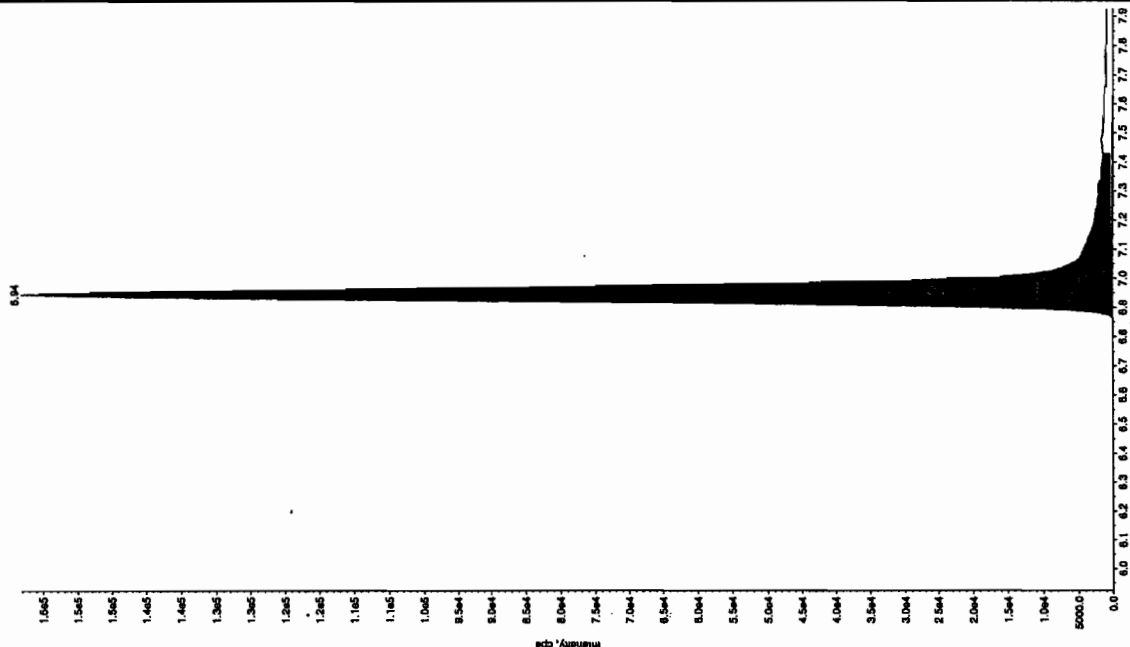
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



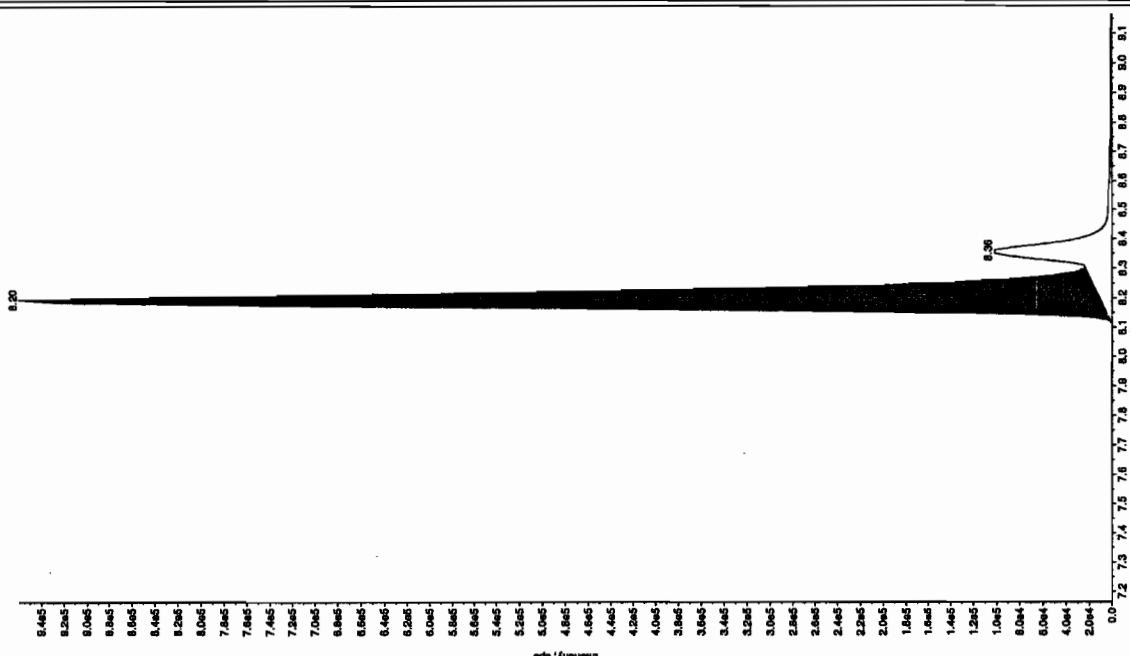
Sample Name: "WXX100311-26CCV" Sample ID: "J1LER" File: "EXS03100128.wiff"  
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"

Calls	Type:		No.	
Sample Type:	OC			
Alcohol Conc:	457.			
Analyzed Conc:	500.			
Date:	3/12/2010			
Time:	12:45:50 AM			
QC:				
Mod:				
Proc:				
Injection:	Injection - IOA			
Weight:	2500.00			
Peak Width:	3.000			
Retaining Width:	3			
Min:				
Max:				
RT:				
Use RT:				
Type:	Valley			
Retention time:	6.94			
Area:	8.49e+004			
Total Area:	158137.604			
Start Time:	6.84			
End Time:	7.43			



Sample Name: "WXX100311-250CV" Sample ID: "11LER" File: "EXS03100128.wiff"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"

sample Index:	1	QC	ng/mL
sample Type:		500.	ng/mL
sample concentration:		516.	
calculated Conc:	3/17/2010		
acq. date:	12:45:150 AM		
acq. time:			
modified:	No		
Algorithm:	IntelliQuan - IQA		
Peak Height:	2000.00	cps	
Peak Width:	0.00	sec	
Sweeping Width:	3	points	
Window:	15.0	sec	
Expected RT:	8.16	min	
Relative RT:	No		
Alt. Name:	valley		
Retention Time:	8.20	min	
Height:	3.54e+006	counts	
Area:	59140.808	cps	
Start Time:	8.11	min	
End Time:	8.31	min	

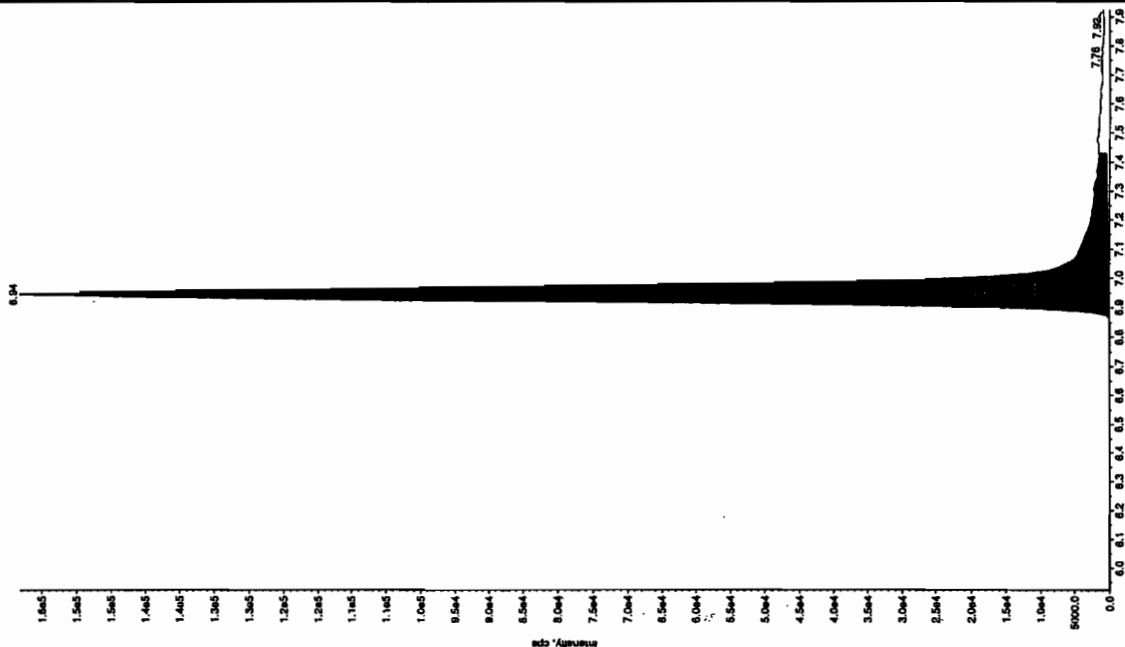


AmcB/10-10

after Jan 31/4/10

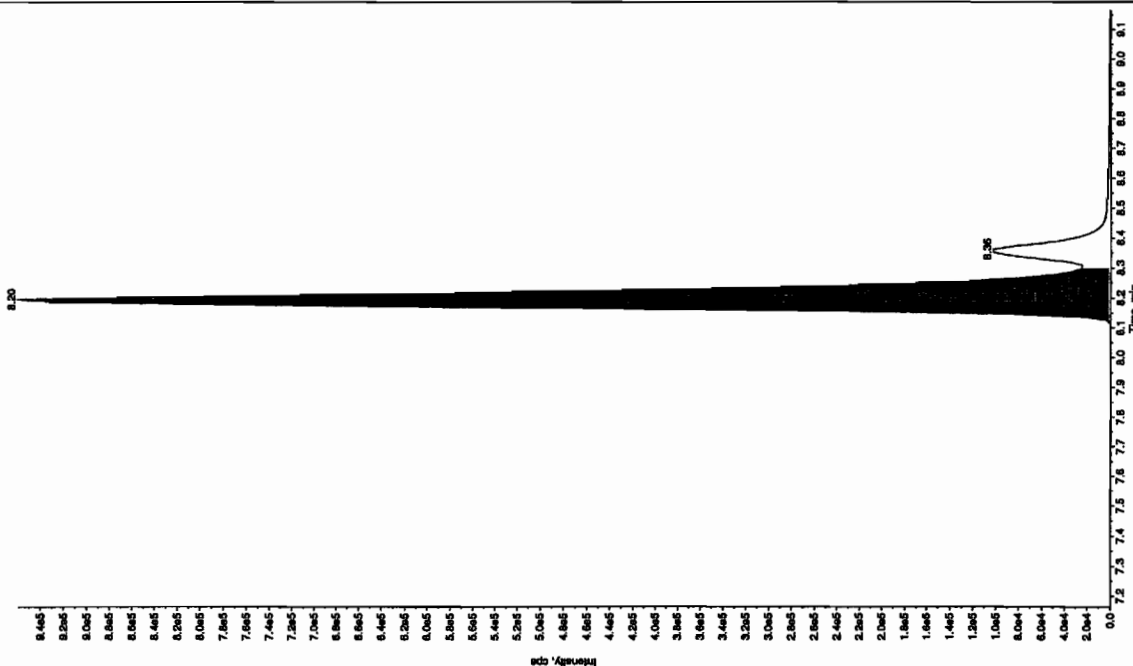
Sample Name: "WXX100311-28CCV" Sample ID: "J1LER" File: "EXS03100128.wif"  
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 533. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 12:45:50 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.94 min  
Area: 6.49e+005 counts  
Height: 159137.604 cps  
Start Time: 6.84 min  
End Time: 7.43 min



Sample Name: "WXX100311-28CCV" Sample ID: "J1LER" File: "EXS03100128.wif"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.0/46.0 amu"  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 533. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 12:45:50 AM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.19 min  
Area: 3.75e+006 counts  
Height: 966302.668 cps  
Start Time: 8.12 min  
End Time: 8.30 min



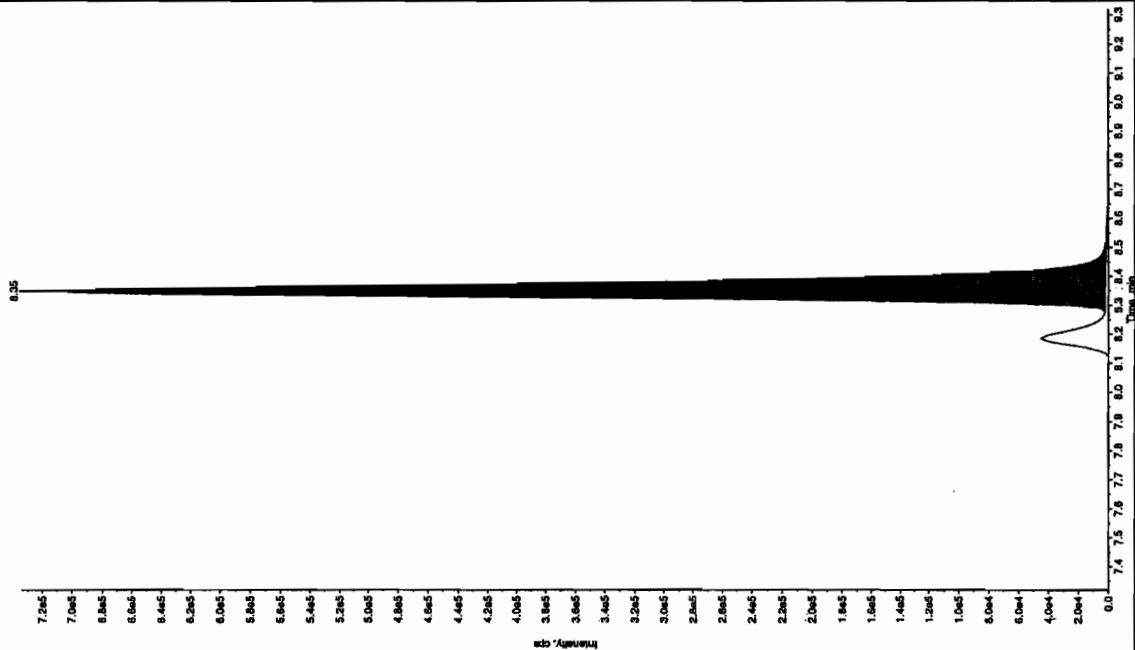
Sample Name: "WXX100311-26CCV" Sample ID: "111ER" File: "EXS03100128.wif"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1/151.9 amu"

Comment: "LONSEXP\_C" Annotation:

Sample Index: 1  
 Sample Type: QC  
 Concentration: 250. ng/mL  
 Calculated Conc: 251. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 12:45:50 AM

Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 8.35 min  
 Area: 2.63e+086 cps  
 Height: 732406 cps  
 Start Time: 8.25 min  
 End Time: 8.65 min



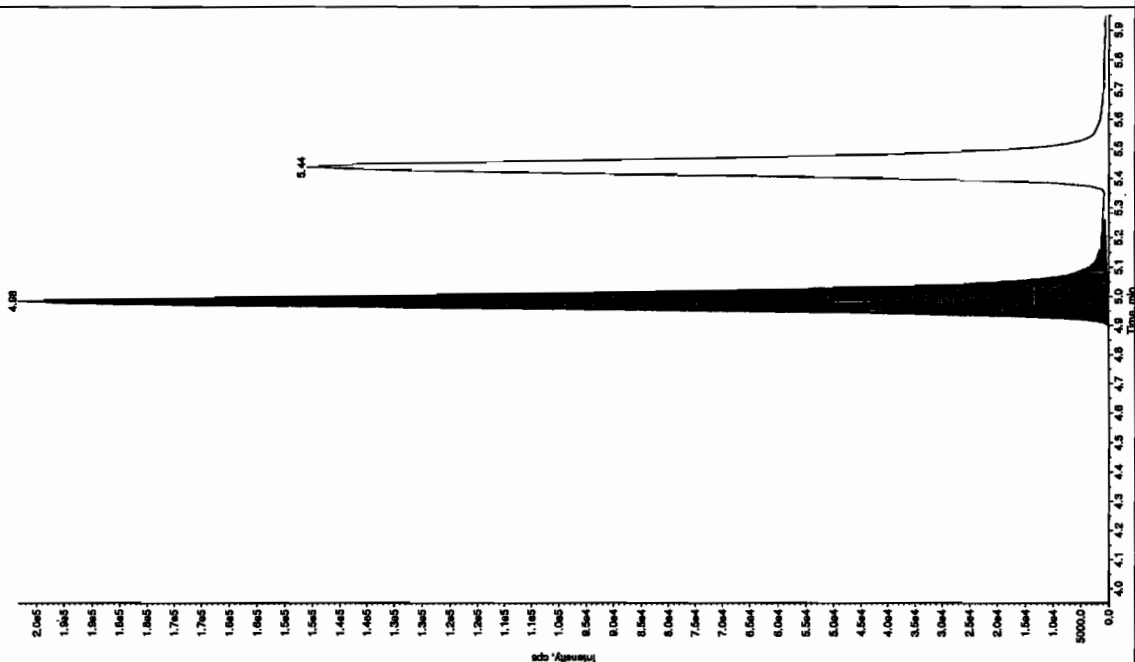
Sample Name: "WXX100311-26CCV" Sample ID: "111ER" File: "EXS03100123.wif"  
 Peak Name: "Zadaxeno-4-mirodrene" Mass(es): "180.0/165.0 amu"

Comment: "LONSEXP\_C" Annotation:

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 521. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 12:45:50 AM

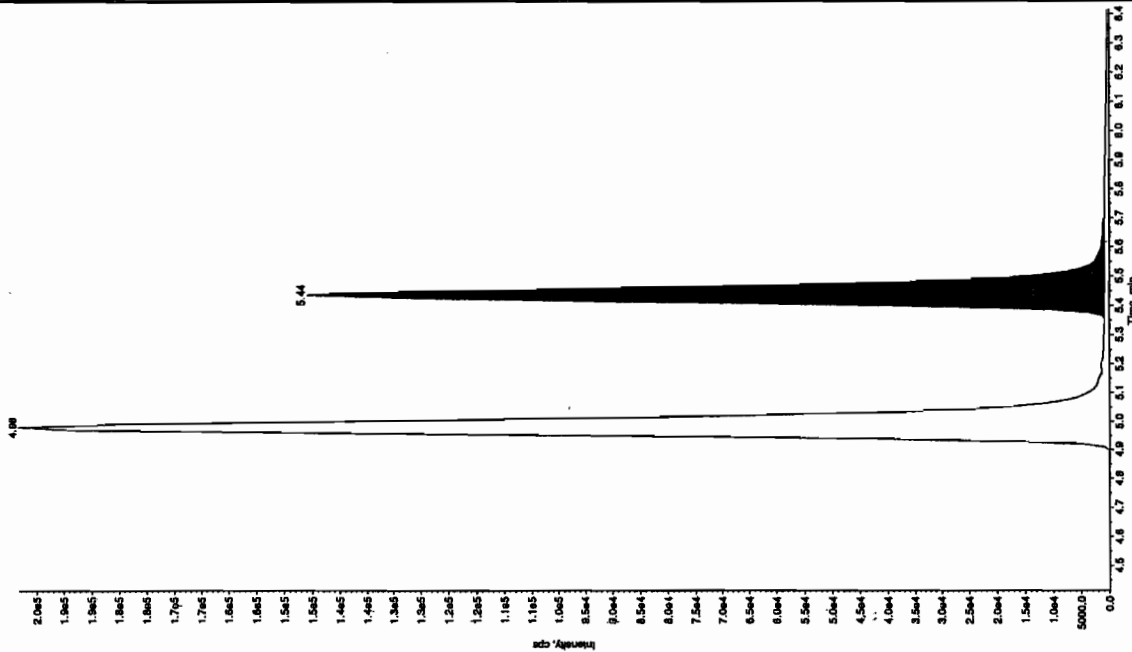
Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No

Int. Type: Valley  
 Retention Time: 4.98 min  
 Area: 7.98e+005 counts  
 Height: 198239 counts  
 Start Time: 4.89 min  
 End Time: 5.26 min



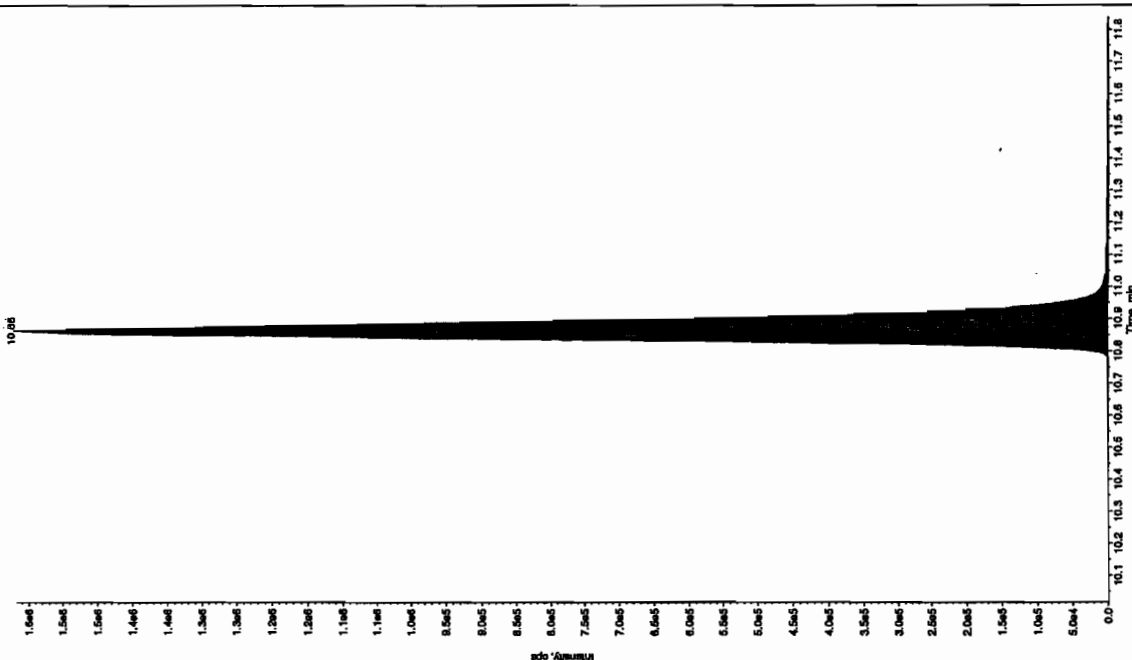
Sample Name: "WXX100311-260CV" Sample ID: "J1LER" File: "EX503100128.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LOMSEXP\_C" Annotation: ""

Sample Index: 1 QC  
Concentration: 500. ng/mL  
Calculated Conc: 500. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 12:45:50 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 350.00 cps  
In. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
T Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.42 min  
Area: 5.60e+005 counts  
Height: 145099747 cps  
Start Time: 5.33 min  
End Time: 5.72 min



Sample Name: "WXX100311-260CV" Sample ID: "J1LER" File: "EX503100128.wif"  
Peak Name: "Tri-(o-cresyl) phosphate" Mass(es): "385.191.0 amu"  
Comment: "LOMSEXP\_C" Annotation: ""

Sample Index: 1 QC  
Concentration: 500. ng/mL  
Calculated Conc: 489. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 12:45:50 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 8000.00 cps  
In. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
T Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 6.19e+006 counts  
Height: 1567454956 cps  
Start Time: 10.8 min  
End Time: 11.2 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100130.wiff

**Analysis Date:** 12-MAR-10 01:17

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	103	103	
2,6-Diamino-4-nitrotoluene	100	102	102	
3,4-Dinitrotoluene	50	49.7	99	
3,5-Dinitroaniline	100	88.1	88	
TATB	100	92.9	93	
tris(o-cresyl) phosphate	100	93.7	94	

**Recovery Limits:**

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

2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

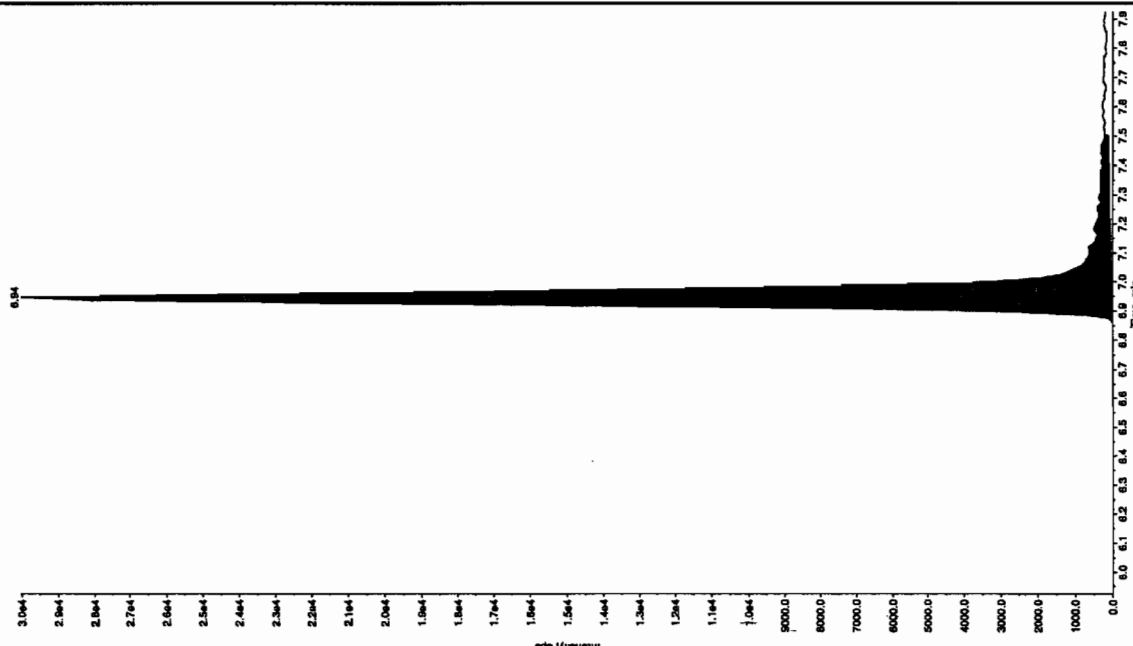
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

See 3/14/10

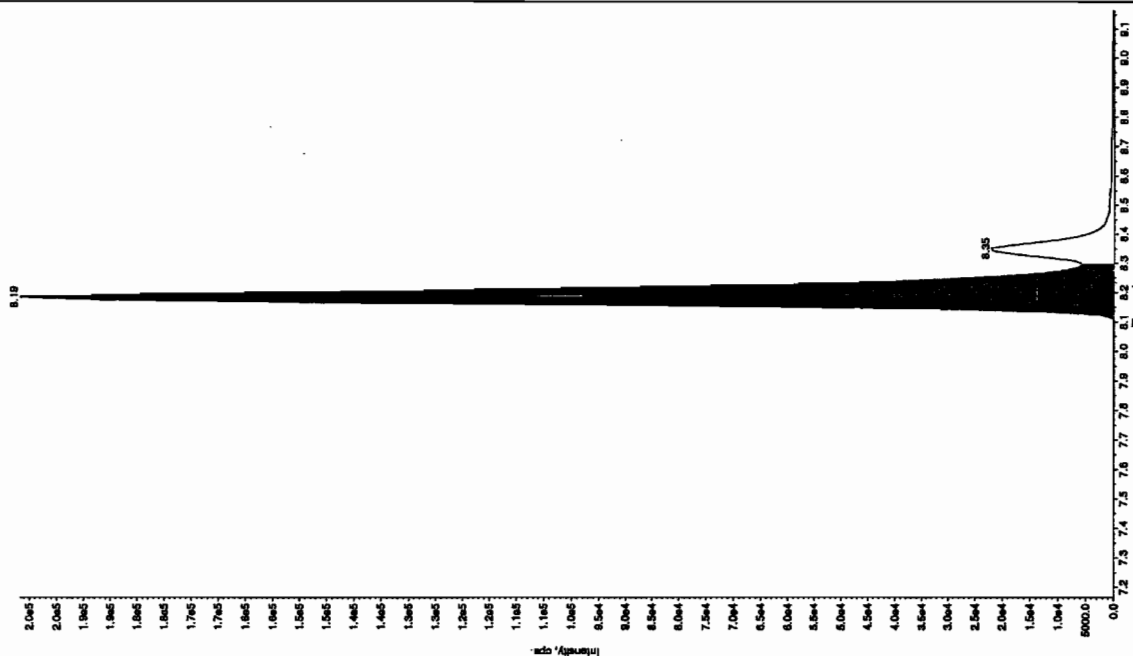
Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX03100130.wif"  
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
Sample Type: QC  
Concentration: 100 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 1:17:14 AM  
Acq. Time: 1:17:14 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.94 min  
Area: 1.20e+005 counts  
Height: 30004.597 cps  
Start Time: 6.84 min  
End Time: 7.50 min



Sample Name: "WXX100311-270R" Sample ID: "111ER" File: "EX03100130.wif"  
Peak Name: "35-Dibenzotriene" Mass(es): "162.0/166.0 amu"  
Comment: "LCMSEXP\_C" Annotation: "

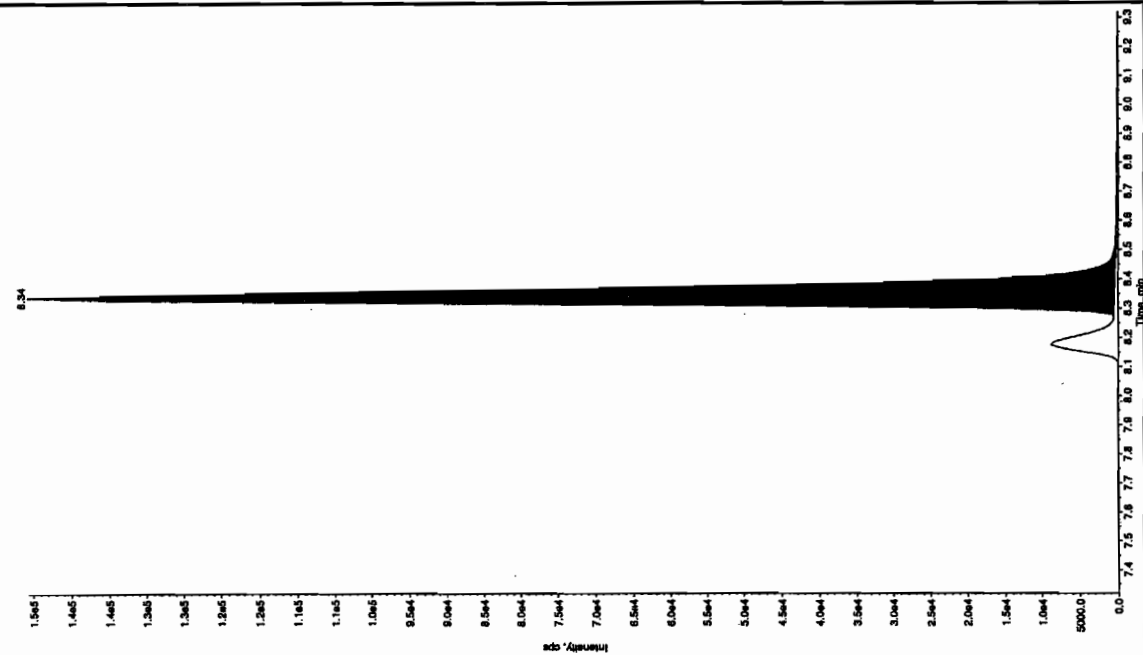
Sample Index: 1  
Sample Type: QC  
Concentration: 100 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 1:17:14 AM  
Acq. Time: 1:17:14 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.19 min  
Area: 7.96e+005 counts  
Height: 201665.024 cps  
Start Time: 8.08 min  
End Time: 8.30 min



Amk 03/17/10

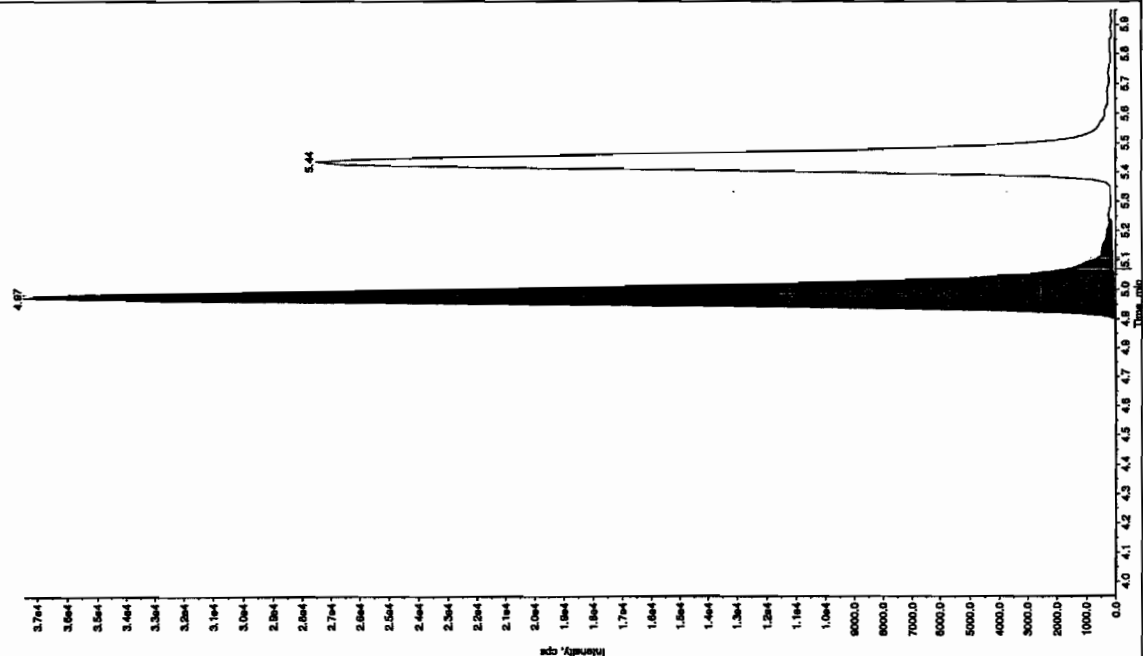
Sample Name: "WX-00311-270R" Sample ID: "11LRF" File: "EXS03100130.wif"  
 Peak Name: "34-Dehydrocortisone" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1 QC  
 Sample Type: 100. ng/mL  
 Concentration: 102. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 1:17:14 AM  
 Acq. Time: 1:17:14 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.97 min  
 Area: 1.57e+005 counts  
 Height: 37412.285 cps  
 Start Time: 4.89 min  
 End Time: 5.24 min



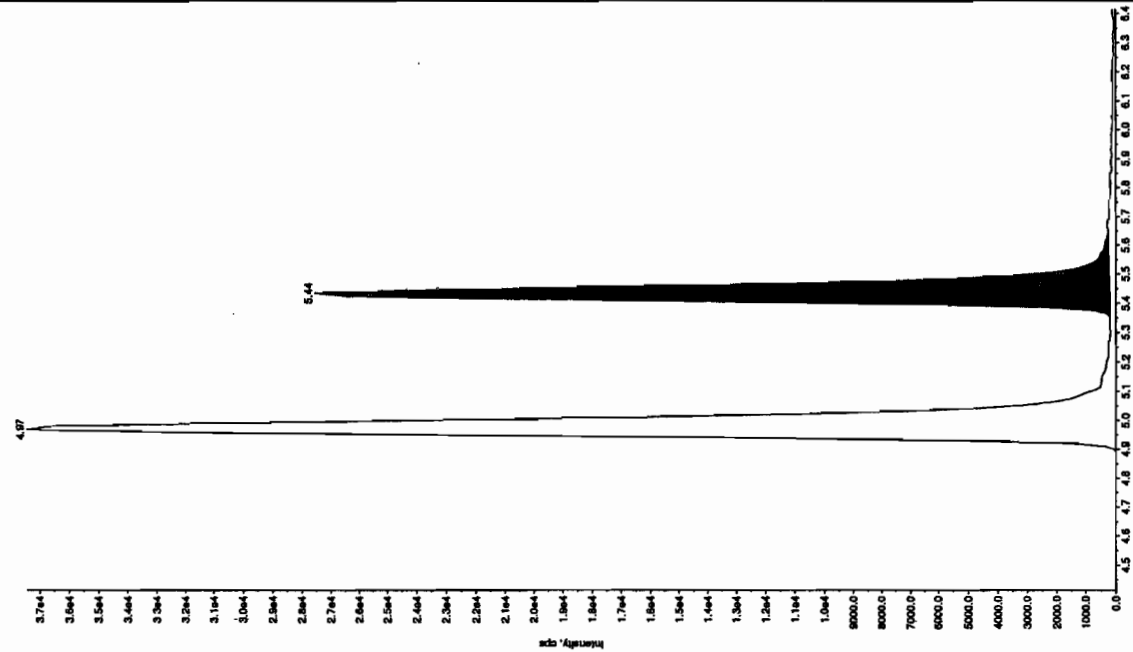
Sample Name: "WX-00311-270R" Sample ID: "11LRF" File: "EXS03100130.wif"  
 Peak Name: "34-Dehydrocortisone" Mass(es): "182.1/151.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1 QC  
 Sample Type: 100. ng/mL  
 Concentration: 102. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 1:17:14 AM  
 Acq. Time: 1:17:14 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.97 min  
 Area: 1.57e+005 counts  
 Height: 37412.285 cps  
 Start Time: 4.89 min  
 End Time: 5.24 min



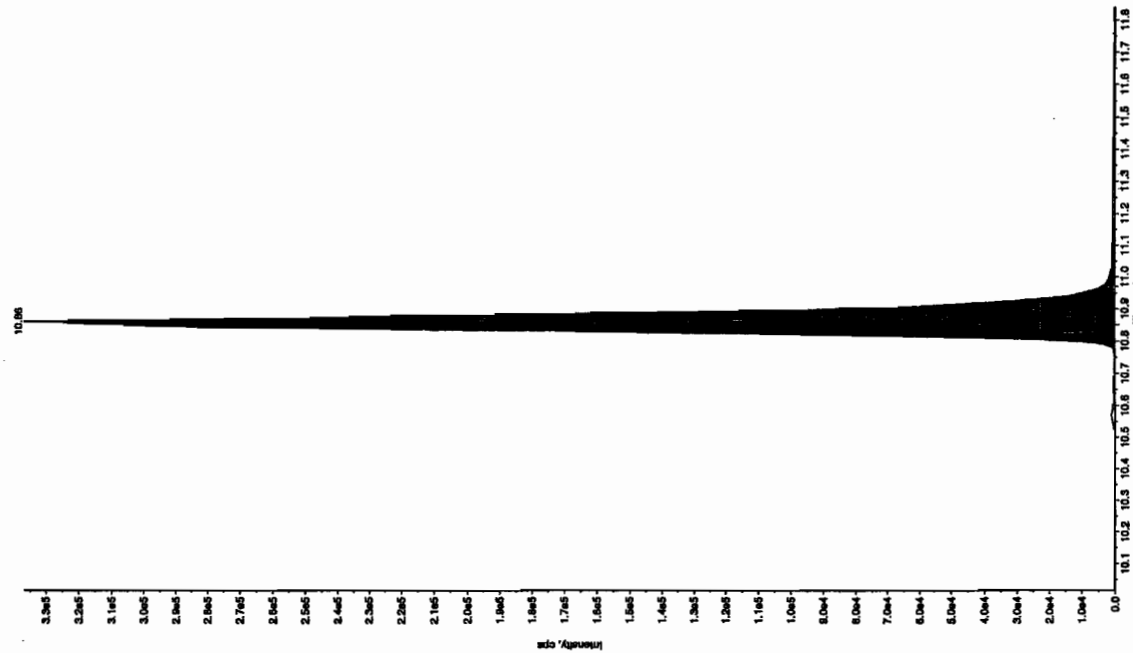
Sample Name: "WXX100311-270H" Sample ID: "11LER" File: "EXS03100130.wif"  
 Peak Name: "24-Diamino-6-nitroclouene" Mass(es): "166.046.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 93.7 ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 1:17:14 AM  
 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: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.44 min  
 Peak Height: 1.03e+003 counts  
 Peak Width: 2732.34 min  
 Start Time: 5.64 min  
 End Time: 5.64 min



Sample Name: "WXX100311-270H" Sample ID: "11LER" File: "EXS03100130.wif"  
 Peak Name: "bis(cis-9) phosphatidic acid" Mass(es): "385.161.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
 Sample Type: QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 93.7 ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 1:17:14 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Peak Height: 1.30e+006 counts  
 Peak Width: 336567.017 cps  
 Start Time: 10.8 min  
 End Time: 11.2 min





**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100141.wiff

**Analysis Date:** 12-MAR-10 04:09

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	587	117	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	265	106	
3,5-Dinitroaniline	500	538	108	
TATB	500	475	95	
tris(o-cresyl) phosphate	500	477	95	

**Recovery Limits:**

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

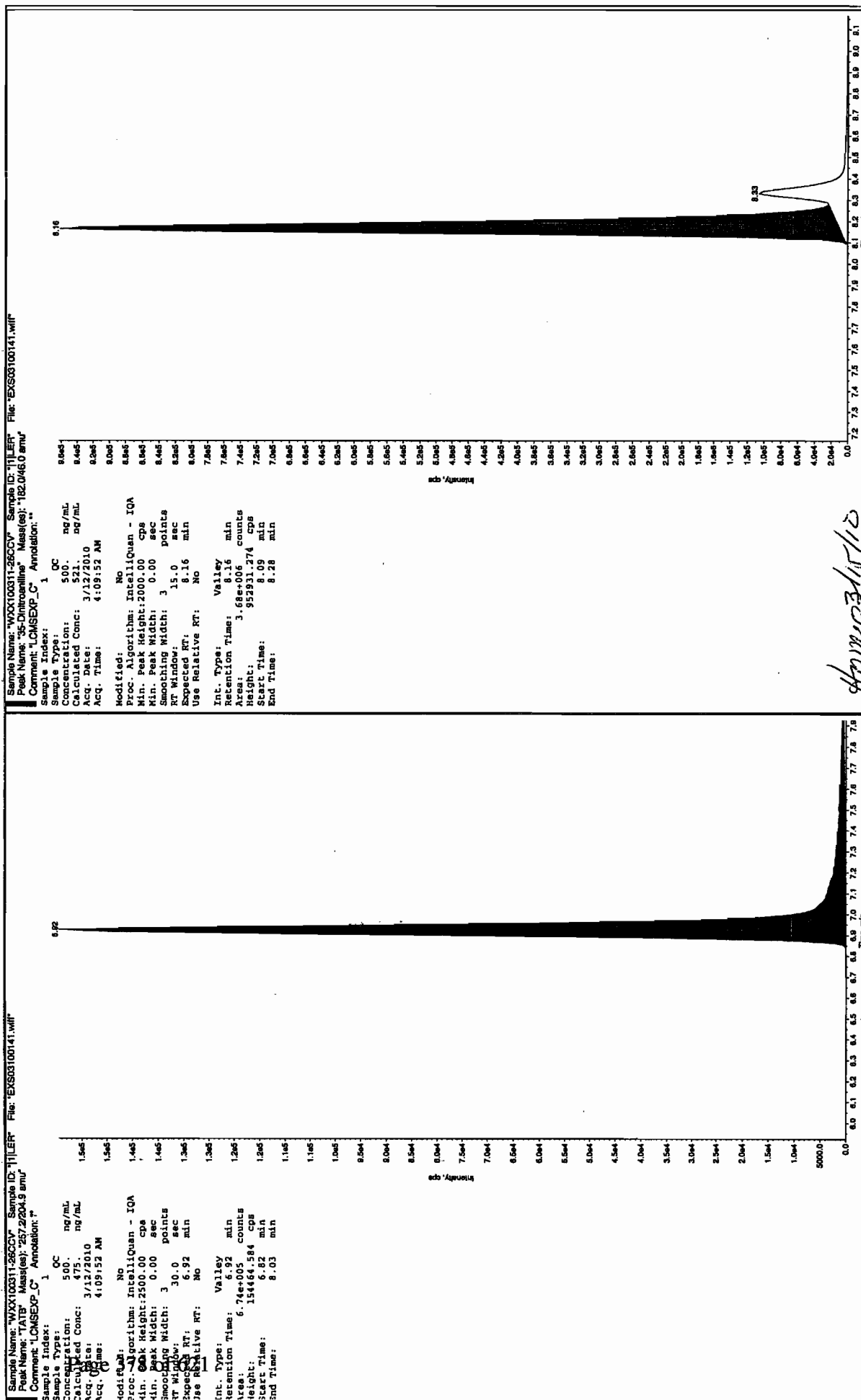
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 3/13/10

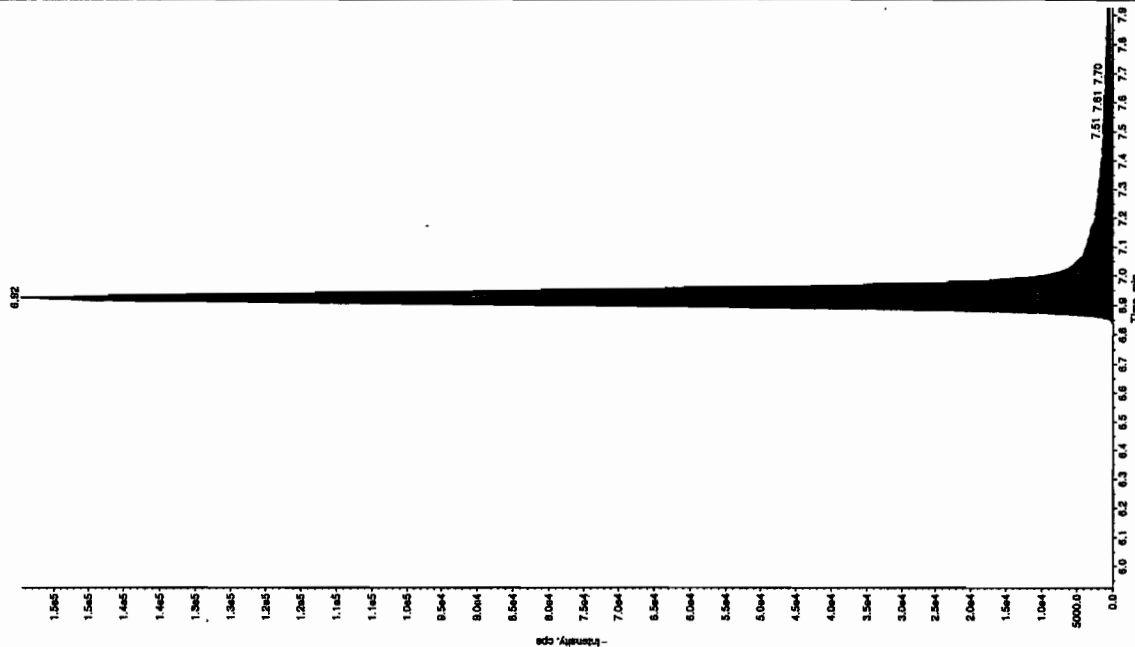


Amc 3/15/10

after due 3/14/10

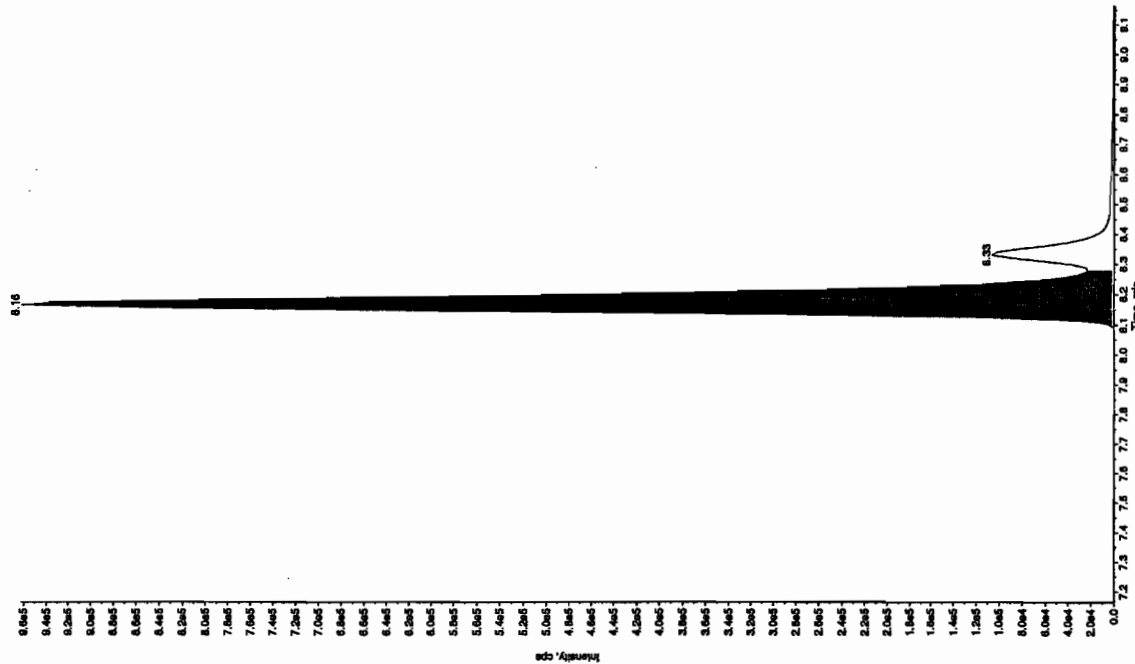
Sample Name: "WXX100311-260CV" Sample ID: "111ER" File: "EX803100141.wif"  
 Peak Name: "TATP" Mass(es): "257.2/204.9 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 3/12/2010  
 Acq. Time: 4:09:52 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: 6.92 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 6.92 min  
 Area: 6.74e+005 counts  
 Height: 154464.584 cps  
 Start Time: 6.82 min  
 End Time: 8.03 min



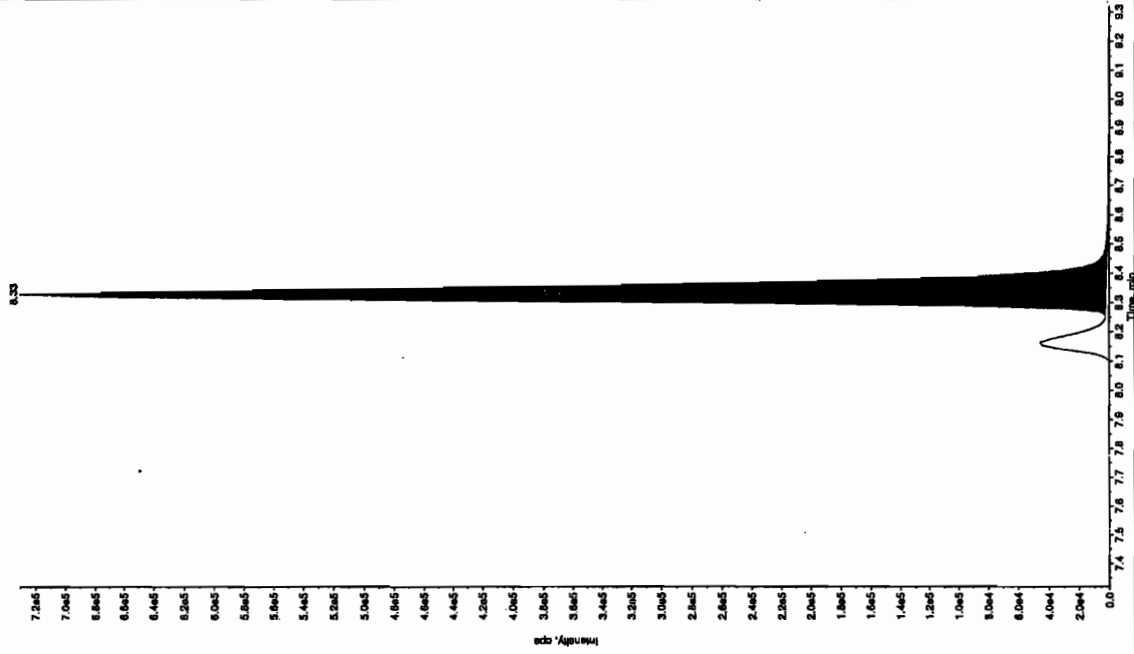
Sample Name: "WXX100311-260CV" Sample ID: "111ER" File: "EX803100141.wif"  
 Peak Name: "35-Dinitroanisole" Mass(es): "182.0/45.0 amu"  
 Comment: "LCMSEXP\_C" Annotation: "

Sample Index: 1  
 Sample Type: QC  
 Concentration: 500. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 3/12/2010  
 Acq. Time: 4:09:52 AM  
 Modified: Yes  
 RT Window: 15.0 sec  
 Expected RT: 8.16 min  
 Use Relative RT: No  
 Int. Type: Manual  
 Retention Time: 8.17 min  
 Area: 3.79e+006 counts  
 Height: 966484.161 cps  
 Start Time: 8.09 min  
 End Time: 8.28 min



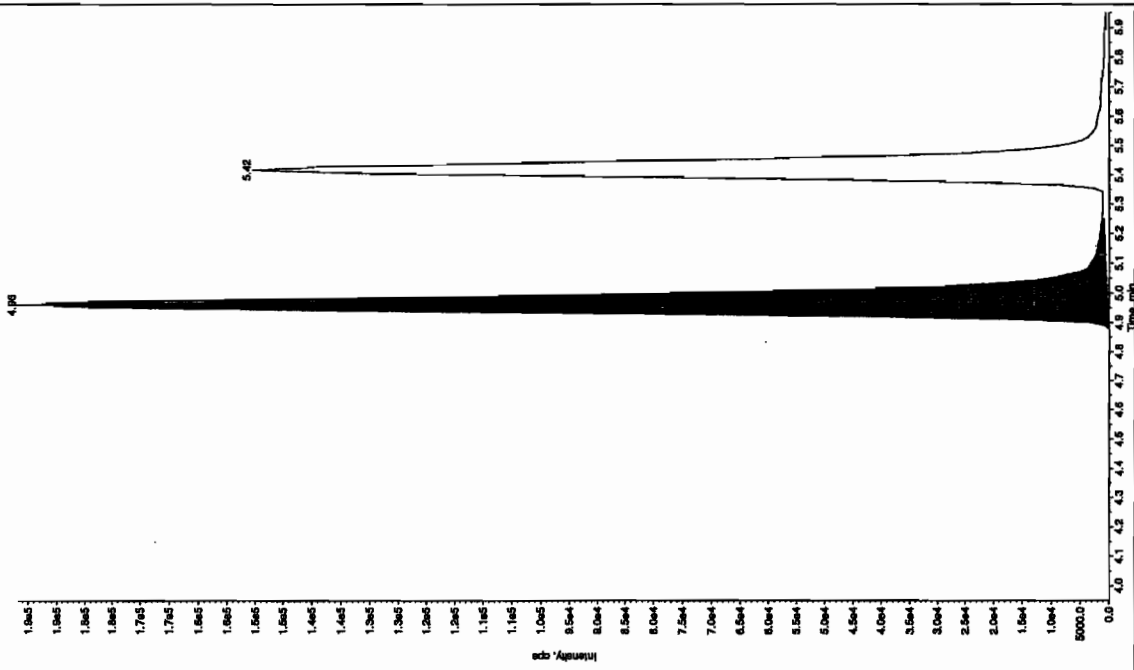
Sample Name: WXX100311-280CV Sample ID: 11LEP File: EXS03100141.wif  
 Peak Name: 34-Dinitrotoluene Mass(es): 182.1/151.9 amu  
 Comment: LCMSEXP\_C Annotation:

Sample Index: 1 OC  
 Sample Type: 280 ng/mL  
 Concentration: 285 ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 4:09:52 AM  
 Acq. Time: 4:09:52 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.67e+005 counts  
 Height: 72816.748 cps  
 Start Time: 8.26 min  
 End Time: 8.65 min



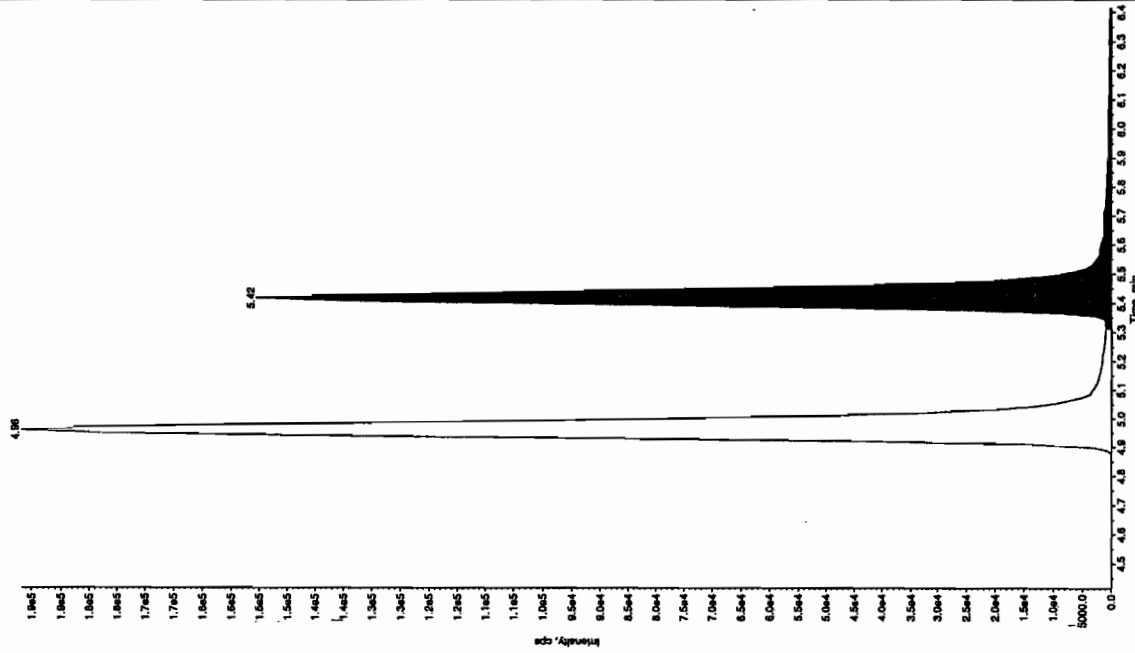
Sample Name: WXX100311-280CV Sample ID: 11LEP File: EXS03100141.wif  
 Peak Name: 34-Dinitrotoluene Mass(es): 182.1/151.9 amu  
 Comment: LCMSEXP\_C Annotation:

Sample Index: 1 OC  
 Sample Type: 500 ng/mL  
 Concentration: 531 ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 4:09:52 AM  
 Acq. Time: 4:09:52 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 8.14e+005 counts  
 Height: 191477.219 cps  
 Start Time: 4.87 min  
 End Time: 5.25 min



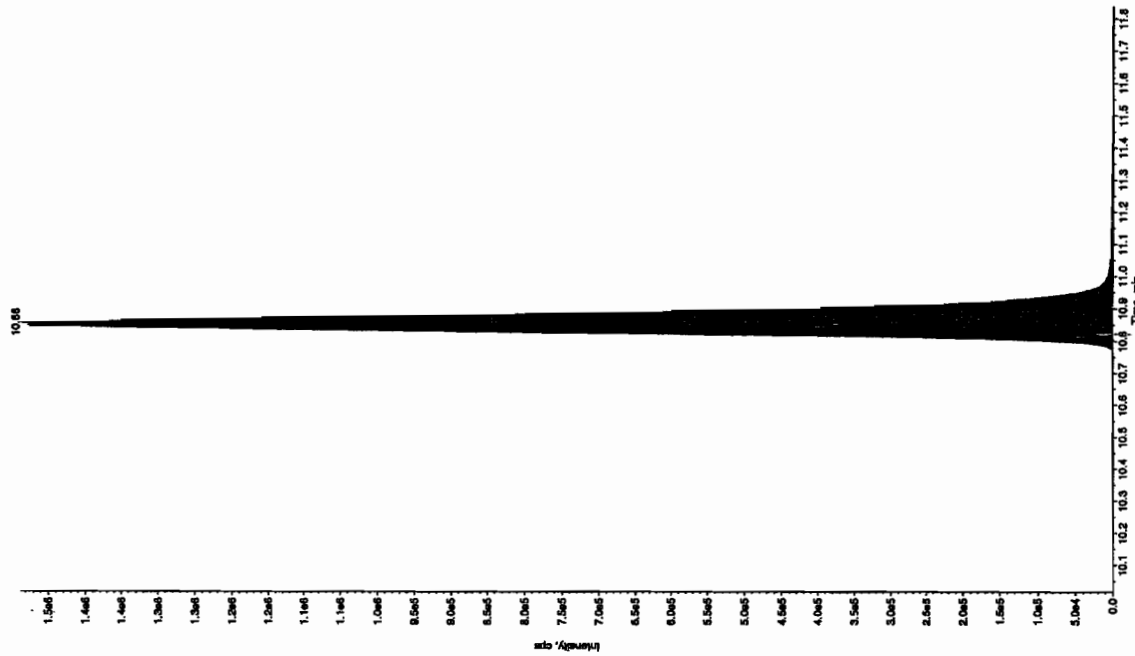
Sample Name: "WXX1003112500V" Sample ID: "HLEP" File: "EVS03100141.mlf"  
 Peak Name: "24-Ethoxy-5-nitrophenol" Mass(es): "155.046.0 amu"  
 Comment: "LCMS-EXP\_C" Annotation: "

Sample Index: 1 QC  
 Sample Type: 500. ng/mL  
 Concentration: 587. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 4:09:52 AM  
 Acq. Time: 4:09:52 AM  
 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: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.42 min  
 Area: 6.20e+005 counts  
 Height: 150237.717 cps  
 Start Time: 5.31 min  
 End Time: 6.34 min



Sample Name: "WXX1003112500V" Sample ID: "HLEP" File: "EVS03100141.mlf"  
 Peak Name: "Tris(o-cresyl) phosphate" Mass(es): "388.181.0 amu"  
 Comment: "LCMS-EXP\_C" Annotation: "

Sample Index: 1 QC  
 Sample Type: 500. ng/mL  
 Concentration: 477. ng/mL  
 Calculated Conc: 3/12/2010  
 Acq. Date: 4:09:52 AM  
 Acq. Time: 4:09:52 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IOA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Area: 6.05e+006 counts  
 Height: 1486274.048 cps  
 Start Time: 10.8 min  
 End Time: 11.2 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100143.wiff

**Analysis Date:** 12-MAR-10 04:41

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	112	112	
2,6-Diamino-4-nitrotoluene	100	104	104	
3,4-Dinitrotoluene	50	50	100	
3,5-Dinitroaniline	100	87.5	88	
TATB	100	94.5	95	
tris(o-cresyl) phosphate	100	91.4	91	

**Recovery Limits:**

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

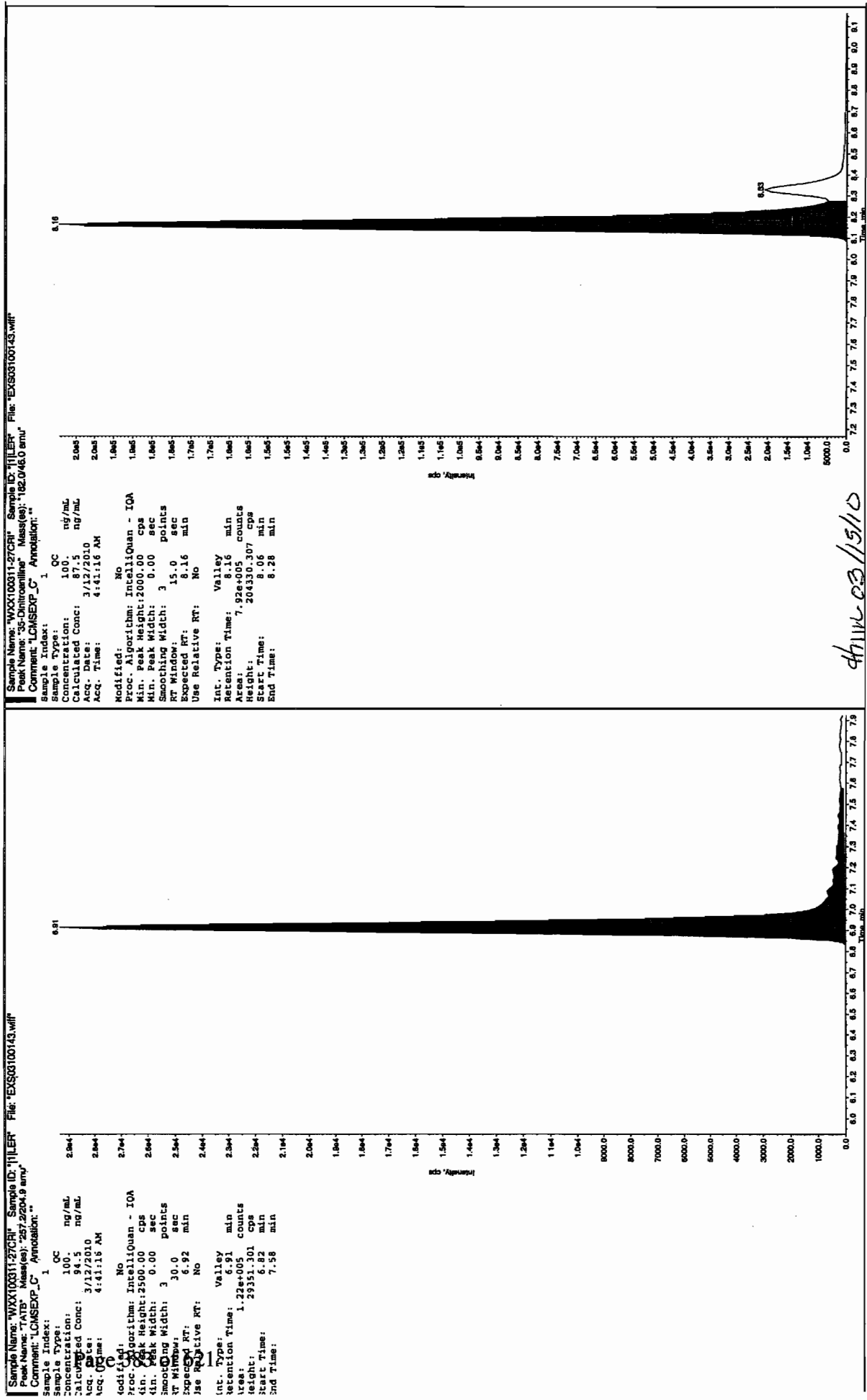
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

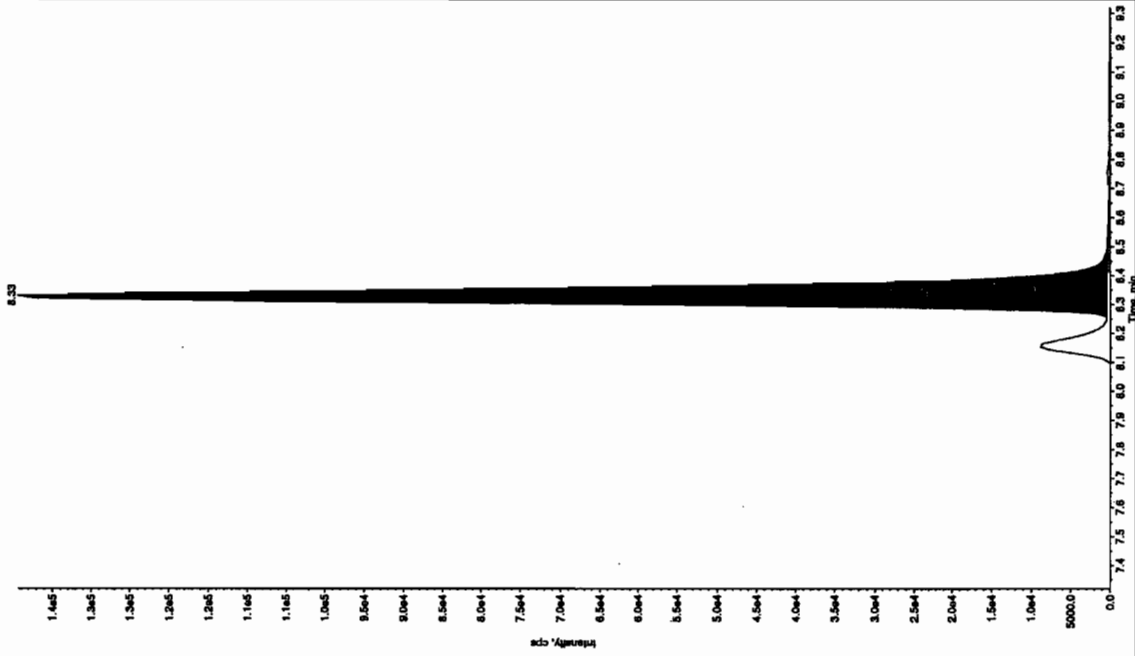
\* Value outside of Recovery Limits

See 31410



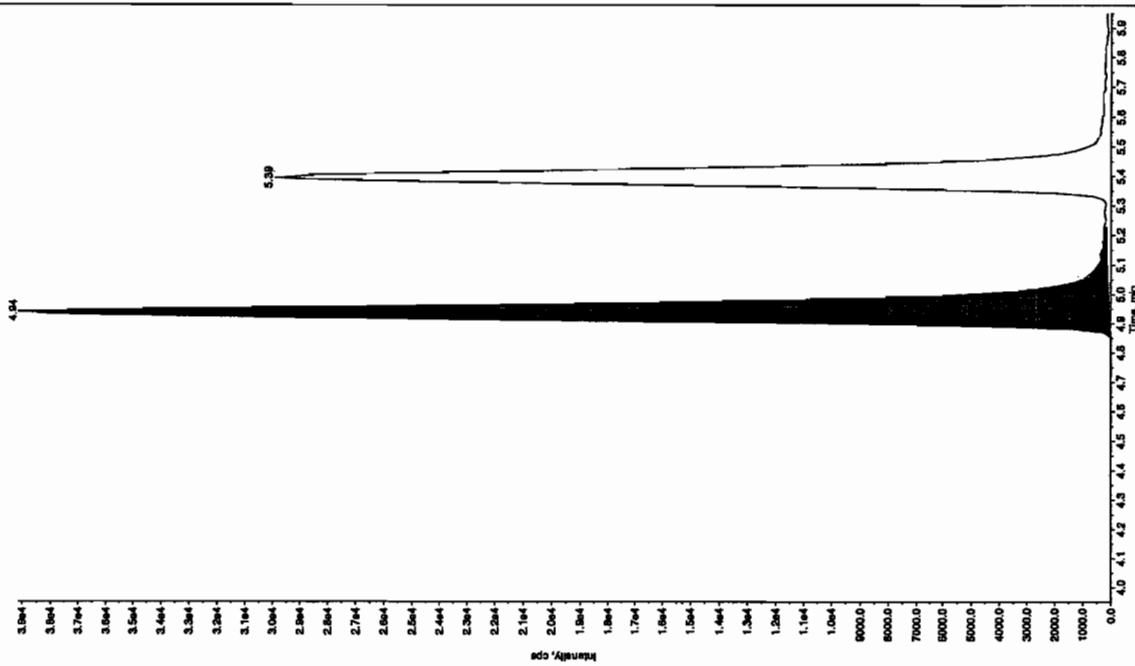
Sample Name: "WXX100311-2709" Sample ID: "11LRF" File: "EXS03100143.wif"  
Peak Name: "34-Chlorobenzene" Mass(es): "182.1751.9 amu"  
Comment: "LONSEXP\_C" Annotation: "

Sample Index: 1 QC  
Sample Type: 100 ng/mL  
Concentration: 100 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 4:41:16 AM  
Acq. Time: 4:41:16 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: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.95 min  
Height: 1.58e+003 counts  
Start Time: 39108.971 cps  
End Time: 4.84 min  
5.23 min



Sample Name: "WXX100311-2709" Sample ID: "11LRF" File: "EXS03100143.wif"  
Peak Name: "25-Dimethyl-4-nitrobenzene" Mass(es): "166.0463.0 amu"  
Comment: "LONSEXP\_C" Annotation: "

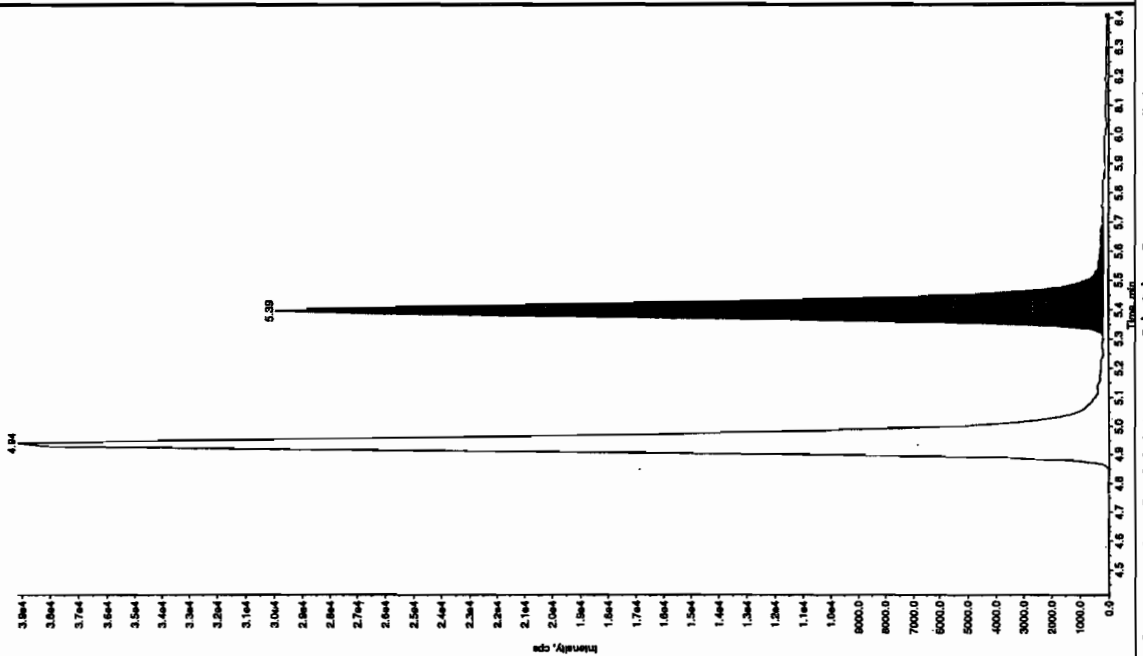
Sample Index: 1 QC  
Sample Type: 100 ng/mL  
Concentration: 100 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 4:41:16 AM  
Acq. Time: 4:41:16 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.95 min  
Height: 1.58e+003 counts  
Start Time: 39108.971 cps  
End Time: 4.84 min  
5.23 min





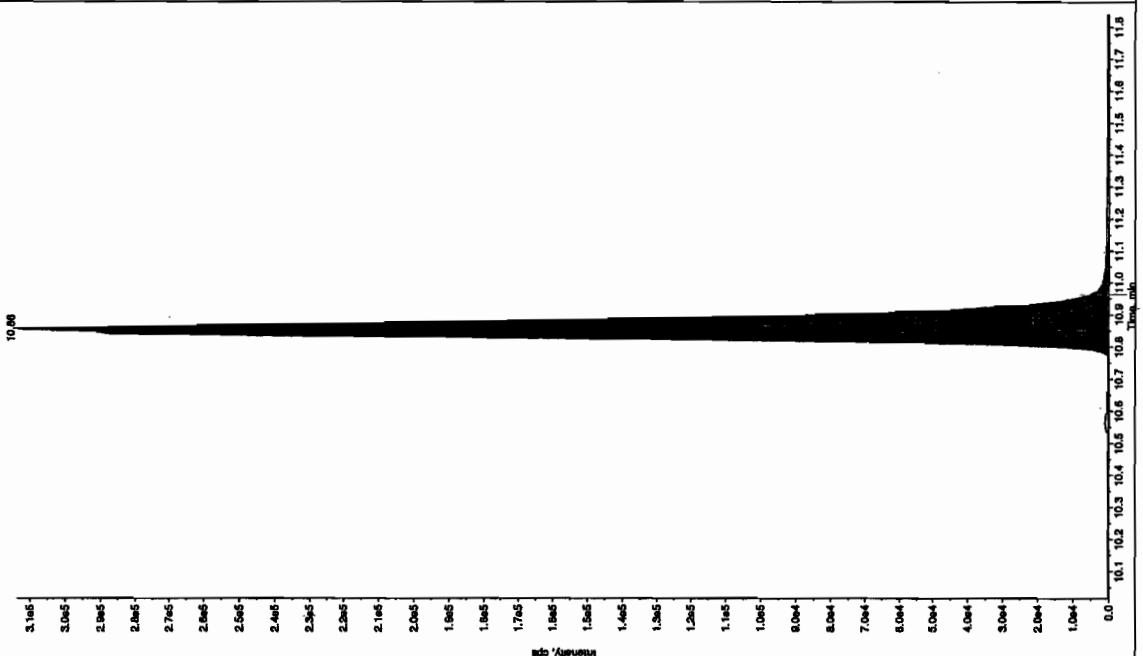
Sample Name: "WXX100311-27CR" Sample ID: "JILR" File: "EXS03100143.wif"  
Peak Name: "24-Diamino-6-nitrobenzene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 112. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 4:41:16 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
In. Peak Height: 350.00 cps  
In. Peak Width: 3.00 sec  
Smoothing Width: 30.0 points  
RT Window: 5.42 min  
Expected RT: No  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.39 min  
Area: 1.18e+005 counts  
Height: 29766.571 cps  
Start Time: 5.30 min  
End Time: 5.74 min



Sample Name: "WXX100311-27CR" Sample ID: "JILR" File: "EXS03100143.wif"  
Peak Name: "bis(o-cresyl) phosphate" Mass(es): "368.161.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 91.4 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 4:41:16 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
In. Peak Height: 8000.00 cps  
In. Peak Width: 0.00 sec  
Smoothing Width: 30.0 points  
RT Window: 10.8 min  
Expected RT: No  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.9 min  
Area: 1.27e+006 counts  
Height: 313426.697 cps  
Start Time: 10.7 min  
End Time: 11.1 min



7A  
Explosives Continuing Calibration Verification

Lab Name: GEL Laboratories LLC

GEL Job No (SDG): 10-1908

Lab Code: GEL

GEL Sample ID: WXXCCV

GEL Data File EXS03100154.wiff

Analysis Date: 12-MAR-10 07:34

LCMSMS ID: 1358

Column ID: JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	545	109	
2,6-Diamino-4-nitrotoluene	500	531	106	
3,4-Dinitrotoluene	250	279	112	
3,5-Dinitroaniline	500	568	114	
TATB	500	485	97	
tris(o-cresyl) phosphate	500	484	97	

Recovery Limits:

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

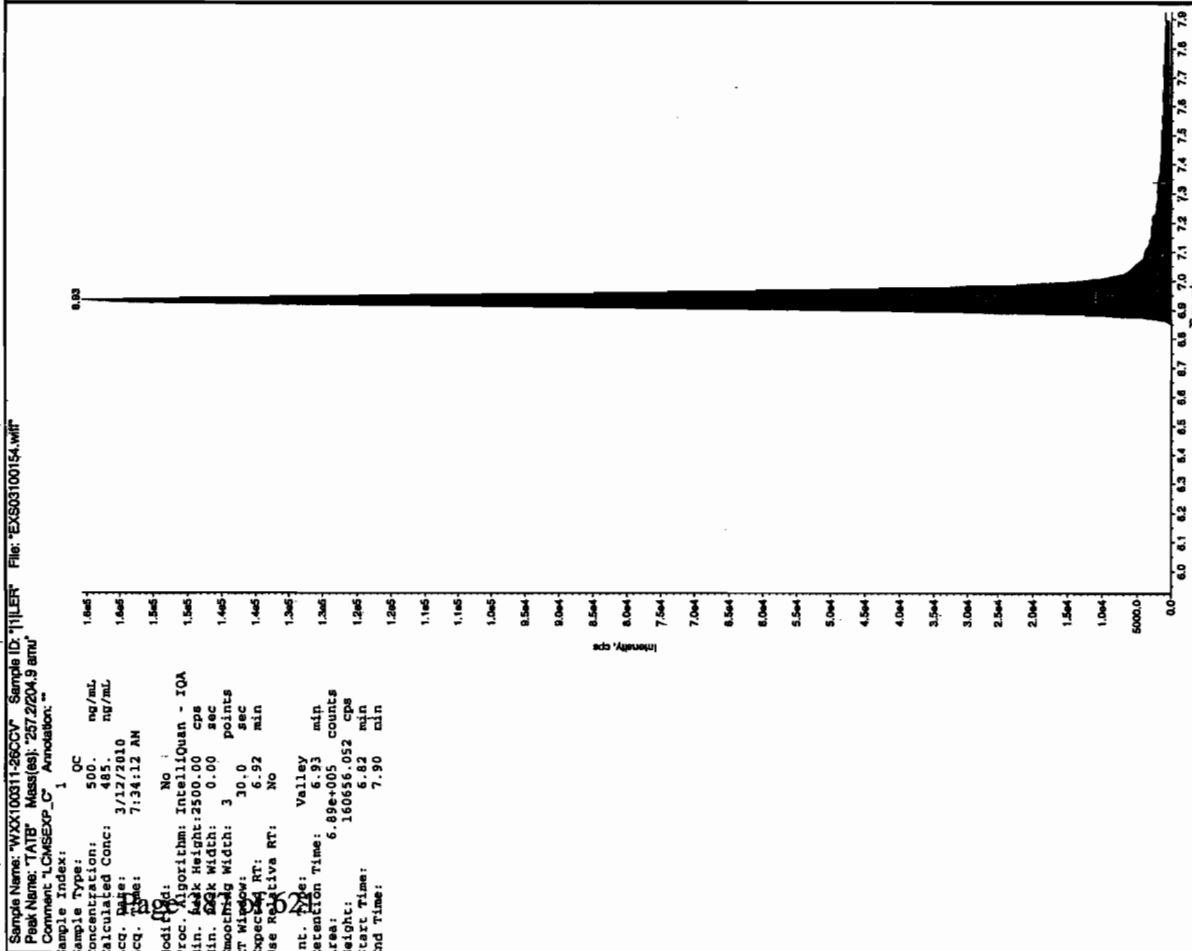
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

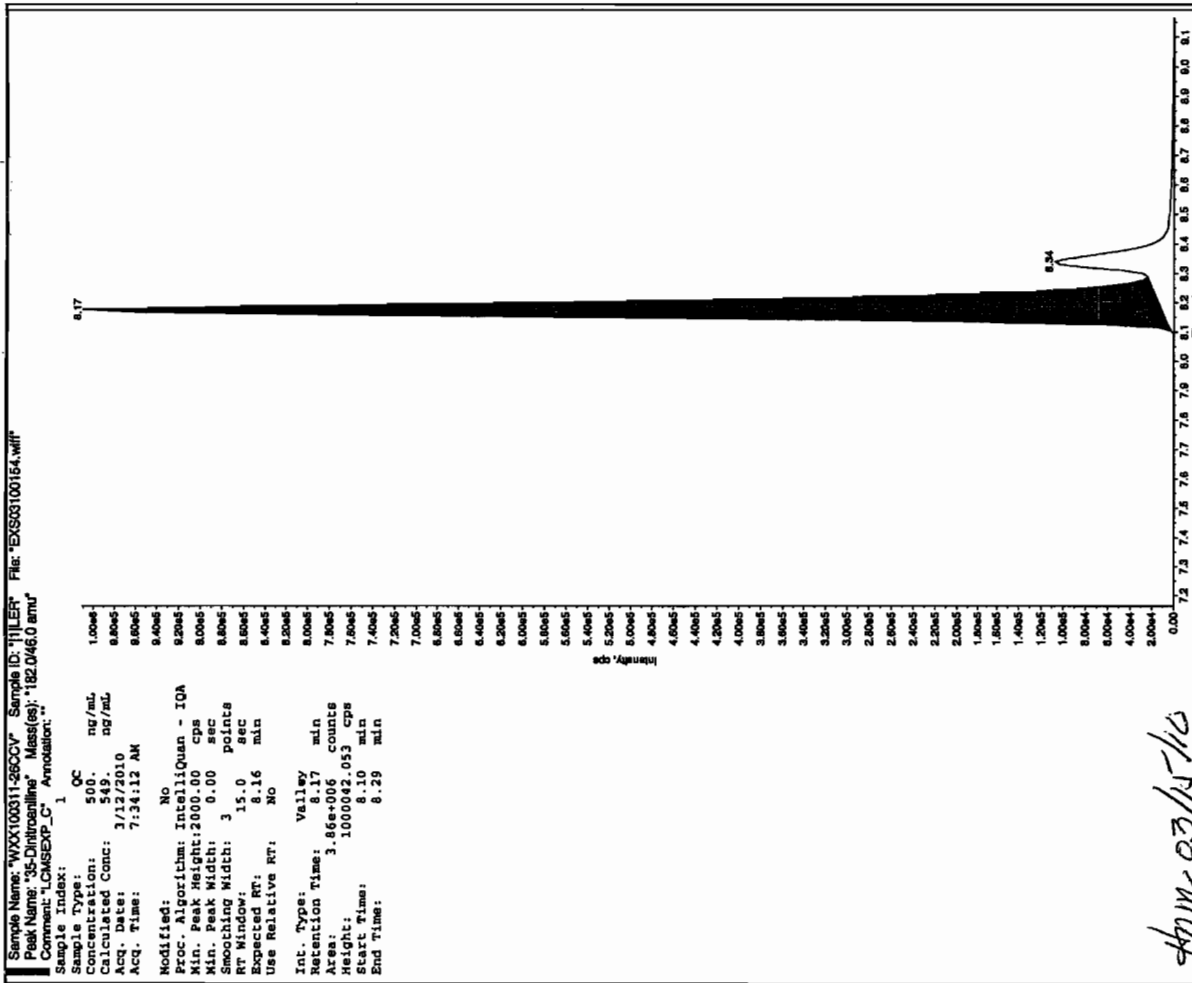
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 31/10

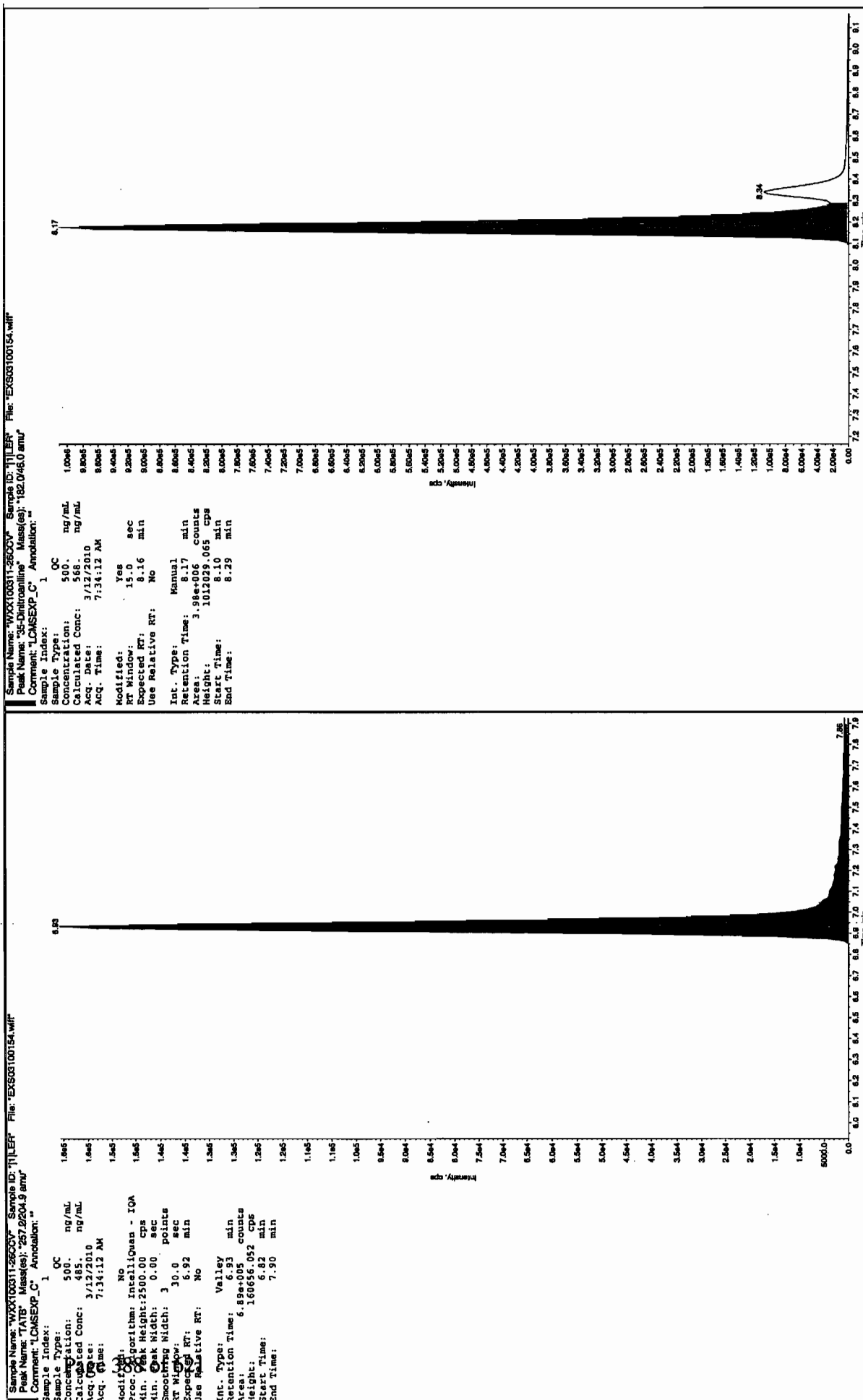


3EL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



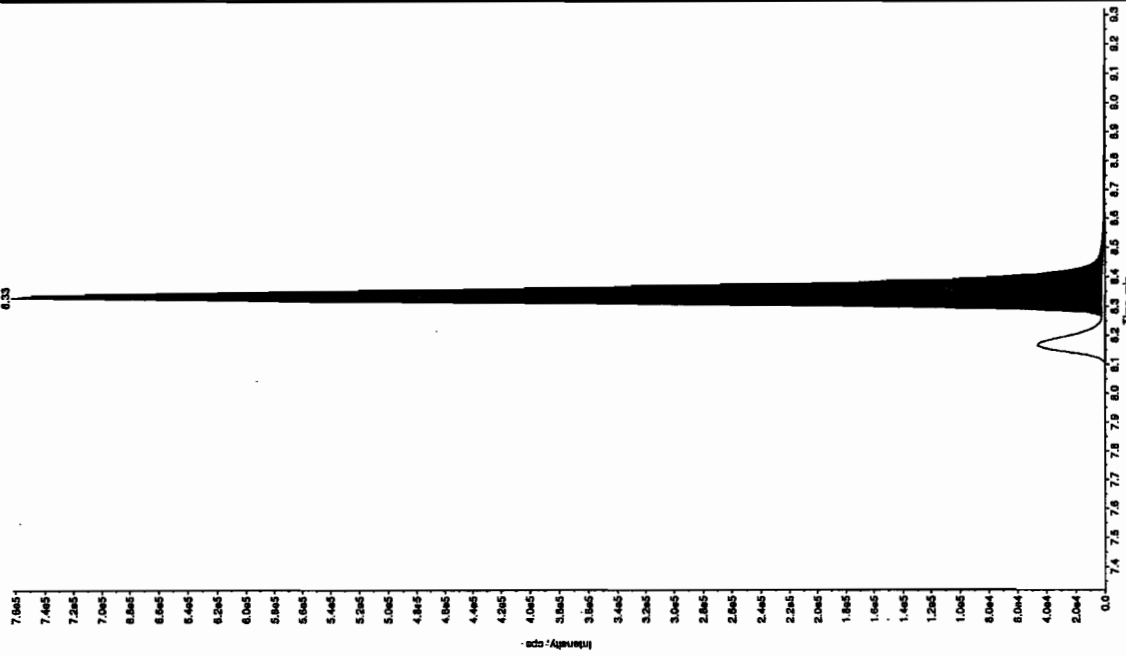
After 03/15/10

After Jan 3/14/10



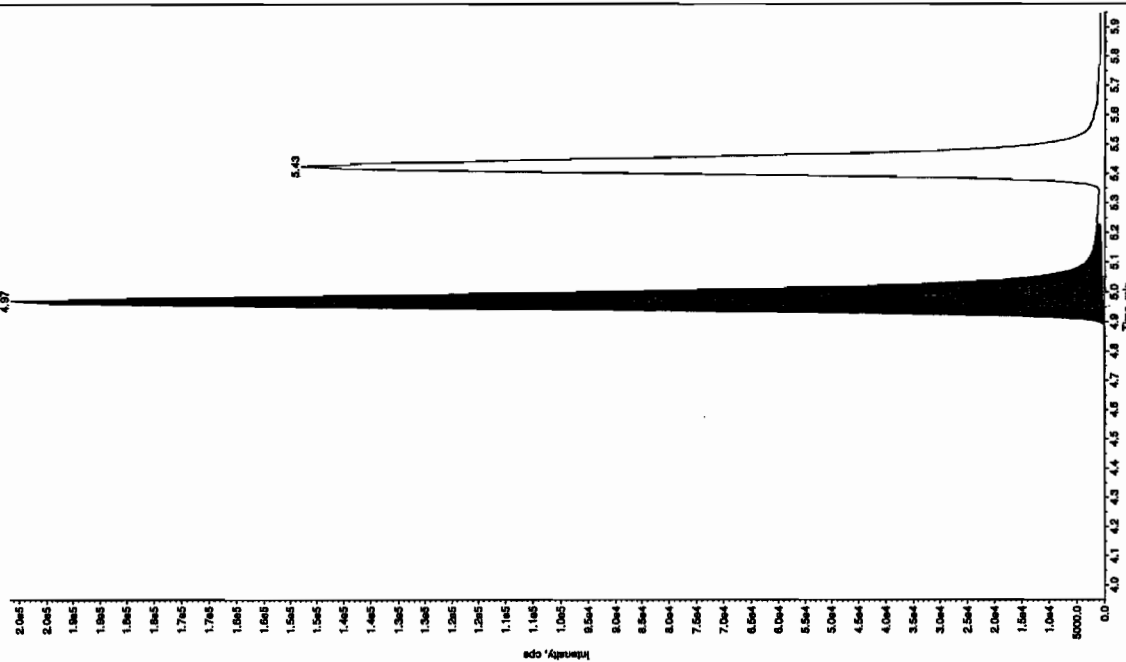
Sample Name: "WXX100311-280CV" Sample ID: "JLER" File: "EX503100154.wif"  
Peak Name: "34-Dinitrofluorene" Mass(es): "182.17151.9 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 250. ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 7:13:12 AM  
Acq. Time: 7:13:12 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: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 2.80e+006 counts  
Height: 75998.657 cps  
Start Time: 8.26 min  
End Time: 8.65 min



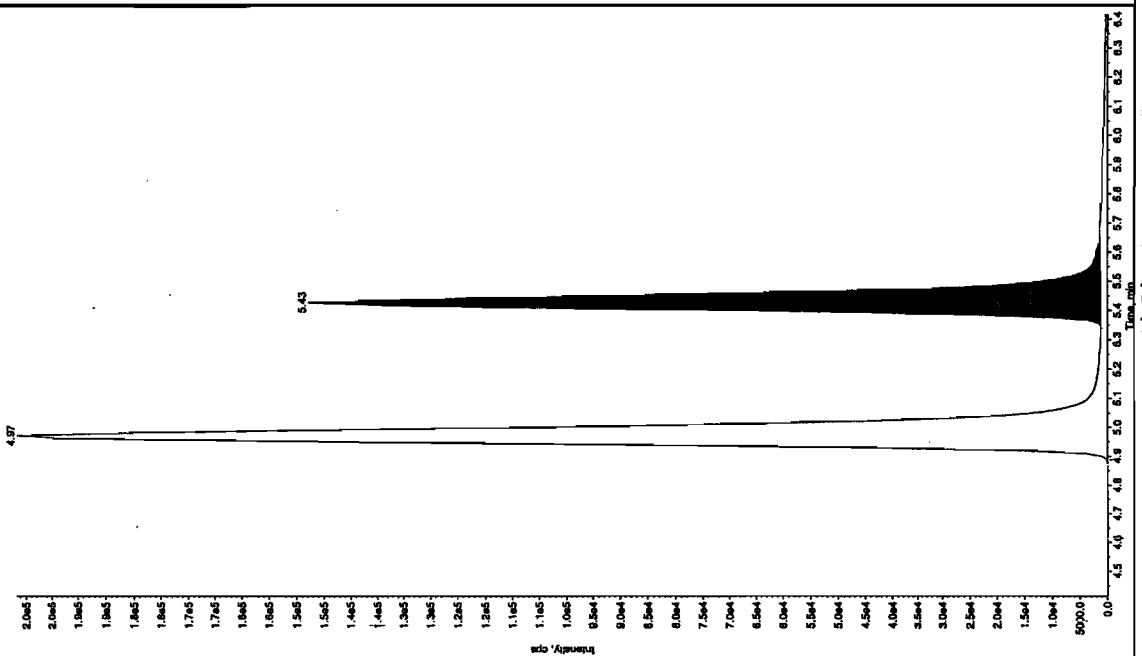
Sample Name: "WXX100311-280CV" Sample ID: "JLER" File: "EX503100154.wif"  
Peak Name: "28-Dinitro-4-nitrofluorene" Mass(es): "186.04630 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 7:13:12 AM  
Acq. Time: 7:13:12 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: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.97 min  
Area: 8.13e+005 counts  
Height: 20181390 cps  
Start Time: 4.83 min  
End Time: 5.23 min



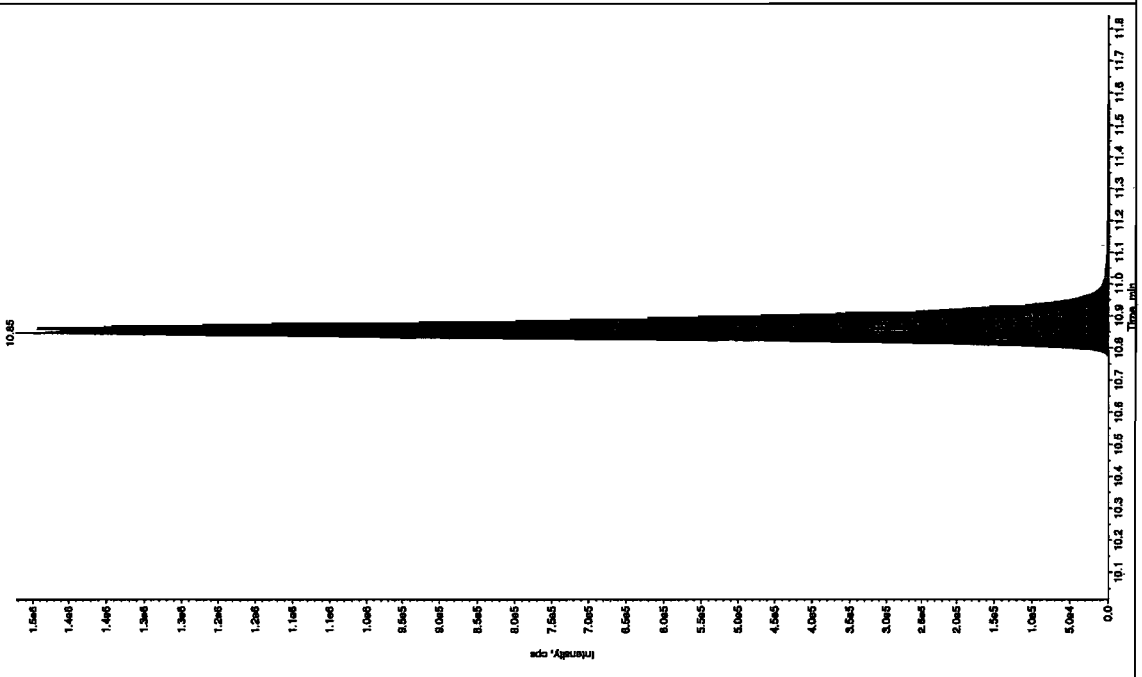
Sample Name: "WXX100311-26C0V" Sample ID: "JILER" File: "EXS03100164.wif"  
Peak Name: "24-Diamino-6-nitrotoluene" Mass(es): "166.046.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 545. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 7:34:12 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 350.00 cps  
Min. Peak Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 5.42 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 5.43 min  
Area: 5.75e+005 counts  
Height: 146750.198 cps  
Start Time: 5.34 min  
End Time: 5.65 min



Sample Name: "WXX100311-26C0V" Sample ID: "JILER" File: "EXS03100164.wif"  
Peak Name: "bis(o-cresyl) phosphite" Mass(es): "359.161.0 amu"  
Comment: "LCMSEXP\_C" Annotation: ""

Sample Index: 1  
Sample Type: QC  
Concentration: 500. ng/mL  
Calculated Conc: 484. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 7:34:12 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 8000.00 cps  
Min. Peak Width: 3.00 points  
RT Window: 30.0 sec  
Expected RT: 10.8 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 10.8 min  
Area: 6.13e+006 counts  
Height: 1471600.342 cps  
Start Time: 10.8 min  
End Time: 11.2 min



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100156.wiff

**Analysis Date:** 12-MAR-10 08:05

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
3,5-Dinitroaniline	100	87.7	88	
TATB	100	92.3	92	
tris(o-cresyl) phosphate	100	95.6	96	
2,4-Diamino-6-nitrotoluene	100	114	114	
2,6-Diamino-4-nitrotoluene	100	112	112	
3,4-Dinitrotoluene	50	52.2	104	

**Recovery Limits:**

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

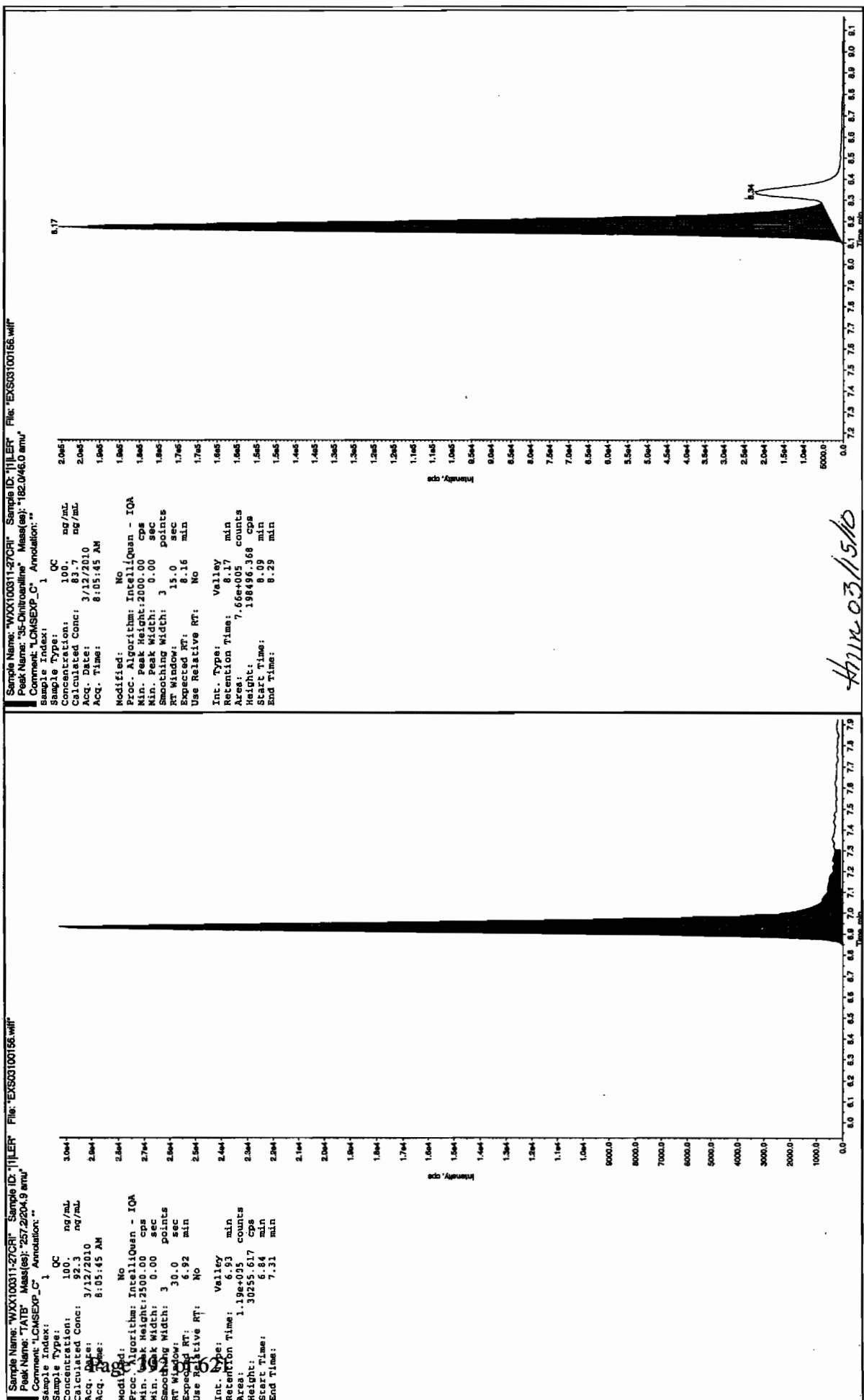
2,4-Diamino-6-nitrotoluene 50-150%

Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

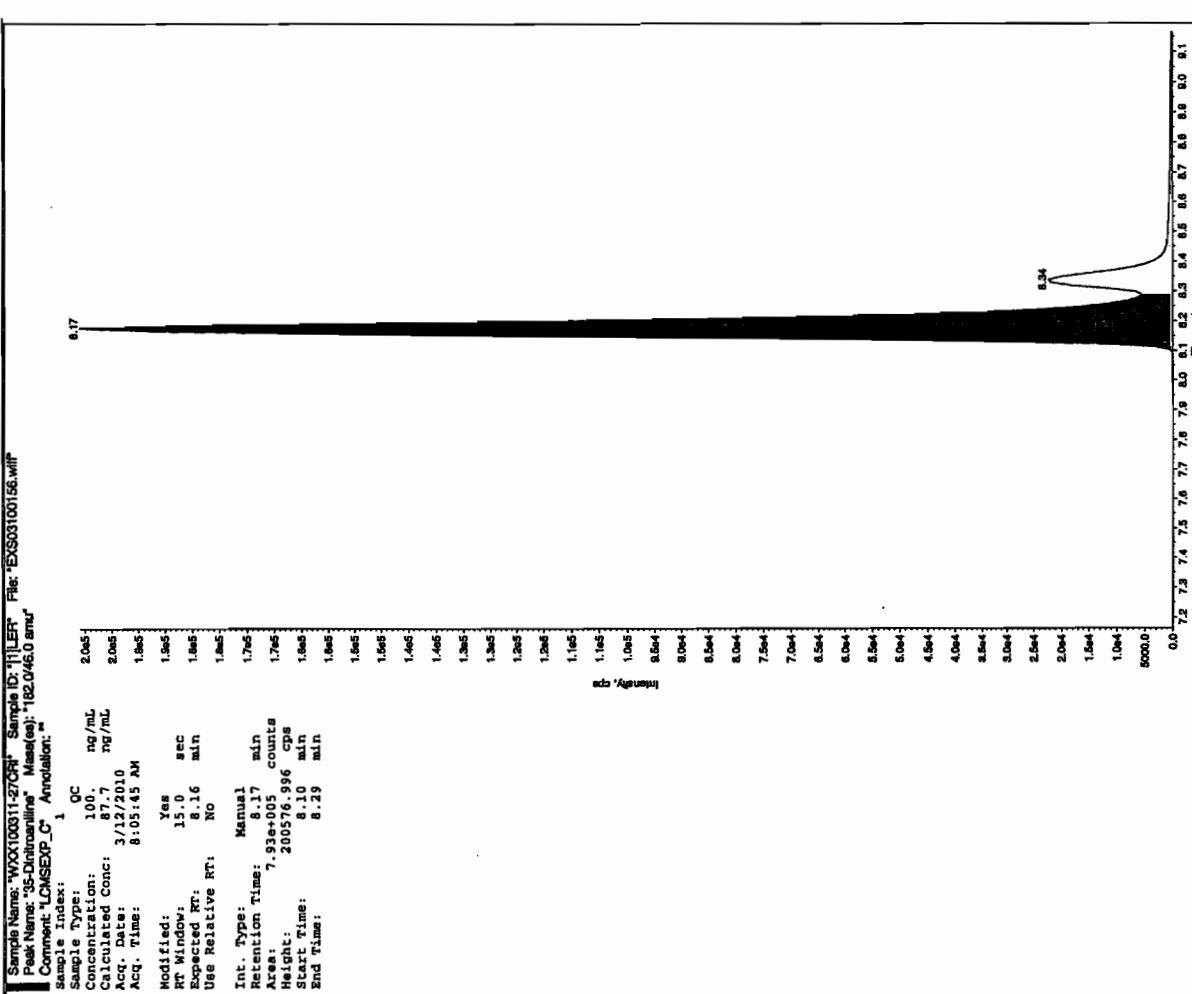
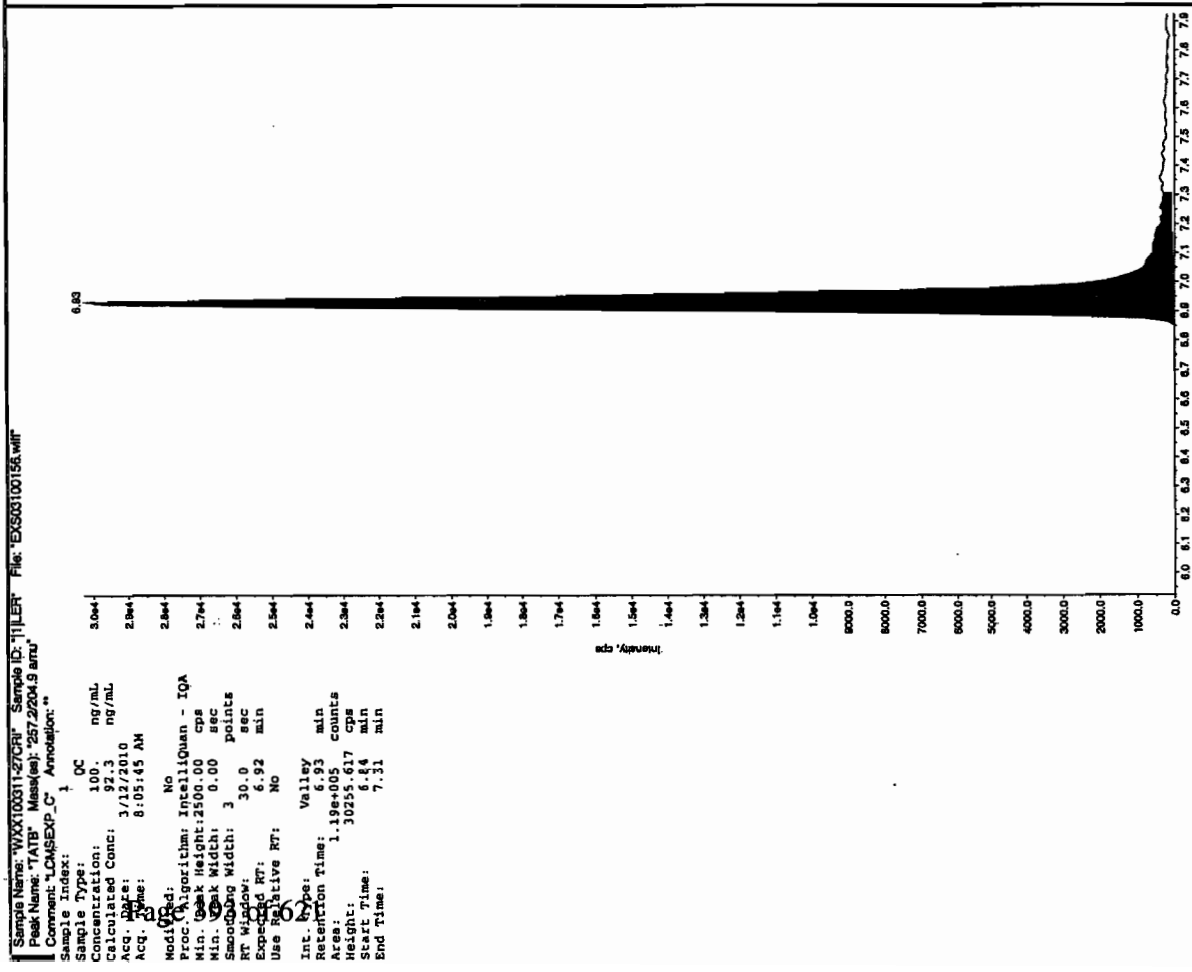
Before Lar 3/13/10



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



after Jan 31/4/16



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

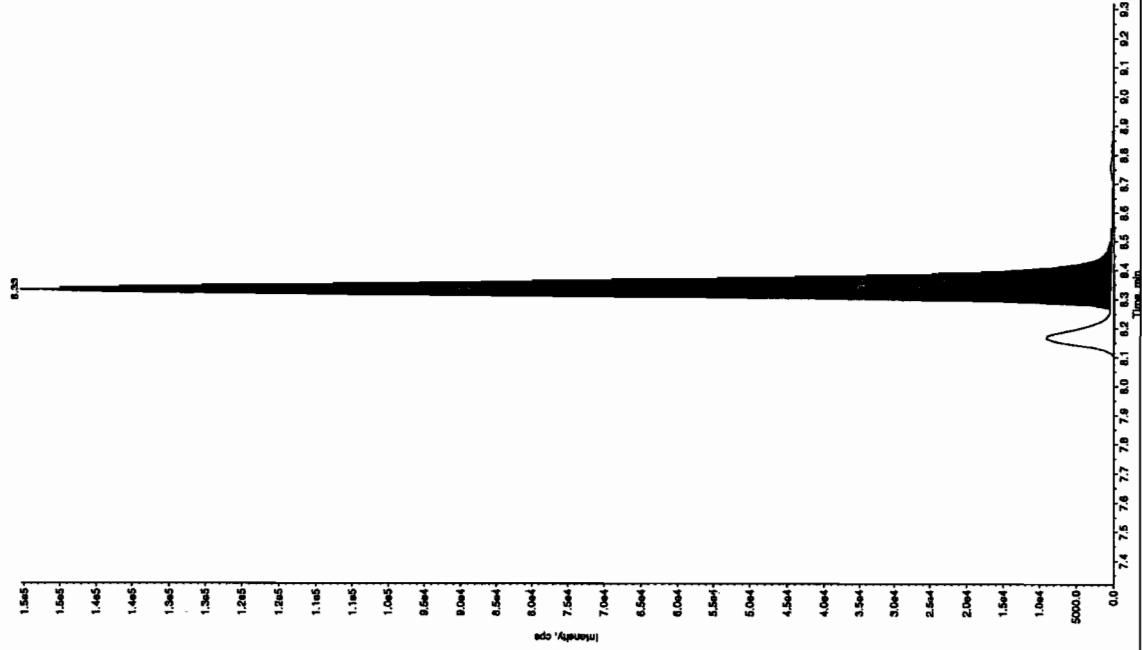
Sample Name: WXX100311-27CPI Sample ID: 111EP File: EXS03100156.wif  
Peak Name: 8321A-Modified LCMSMS#4 Mass(es): 162.1/151.9 amu

Comment: "LCMSXP\_C" Annotation: "1"

Sample Type: 1 QC  
Concentration: 50.0 ng/mL  
Calculated Conc: 52.2 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 8:05:45 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: 8.32 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 8.33 min  
Area: 5.58e+005 counts  
Height: 150068.207 cps  
Start Time: 8.26 min  
End Time: 8.60 min



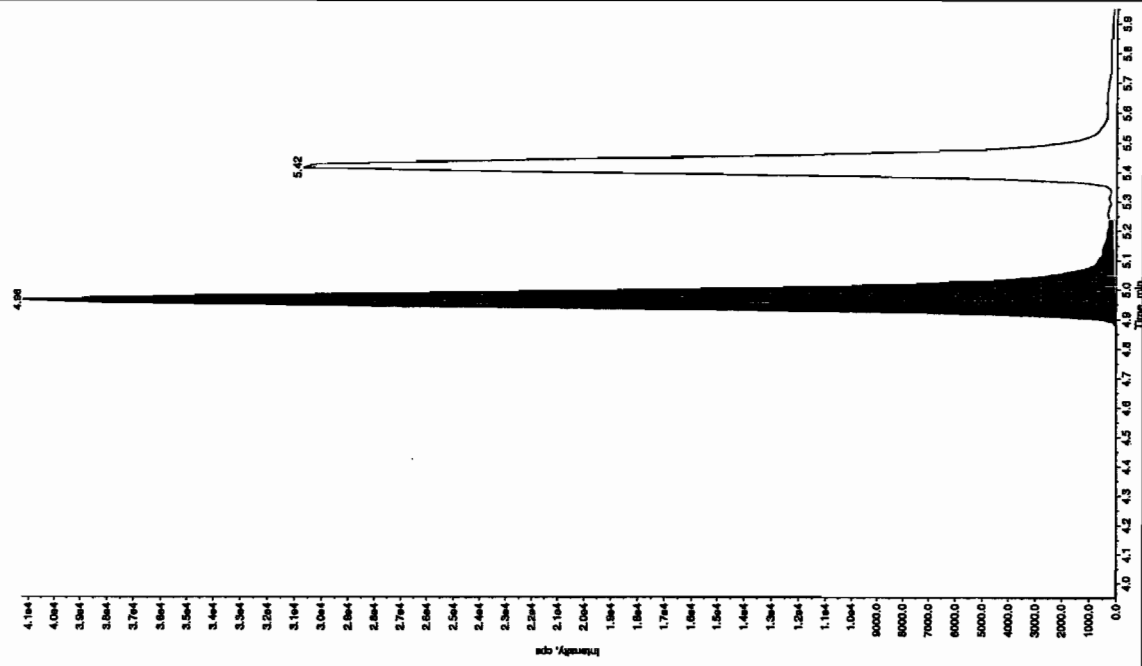
Sample Name: WXX100311-27CPI Sample ID: 111EP File: EXS03100156.wif  
Peak Name: 8321A-Modified LCMSMS#4 Mass(es): 162.0/162.0 amu

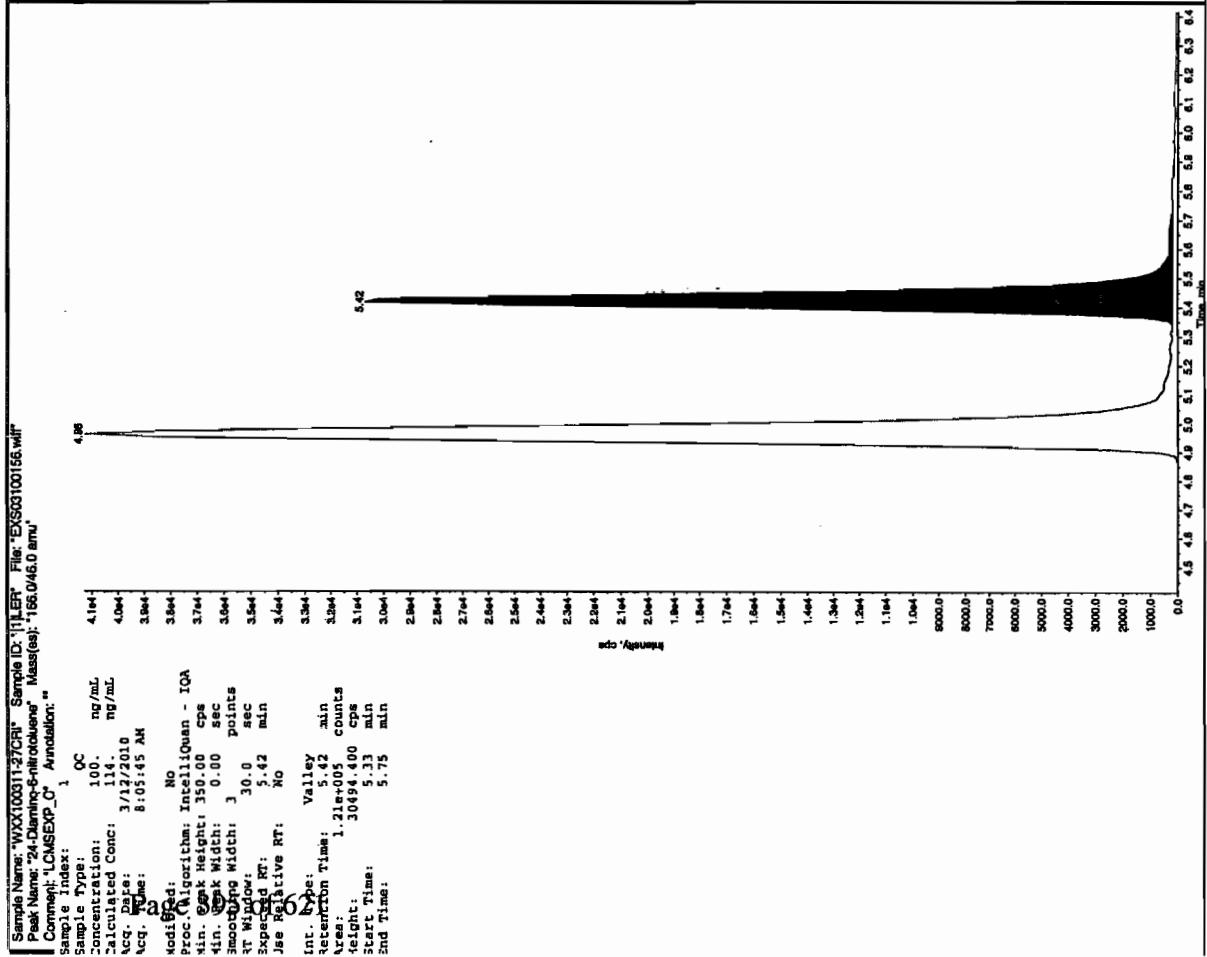
Comment: "LCMSXP\_C" Annotation: "1"

Sample Type: 1 QC  
Concentration: 100. ng/mL  
Calculated Conc: 112. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 8:05:45 AM

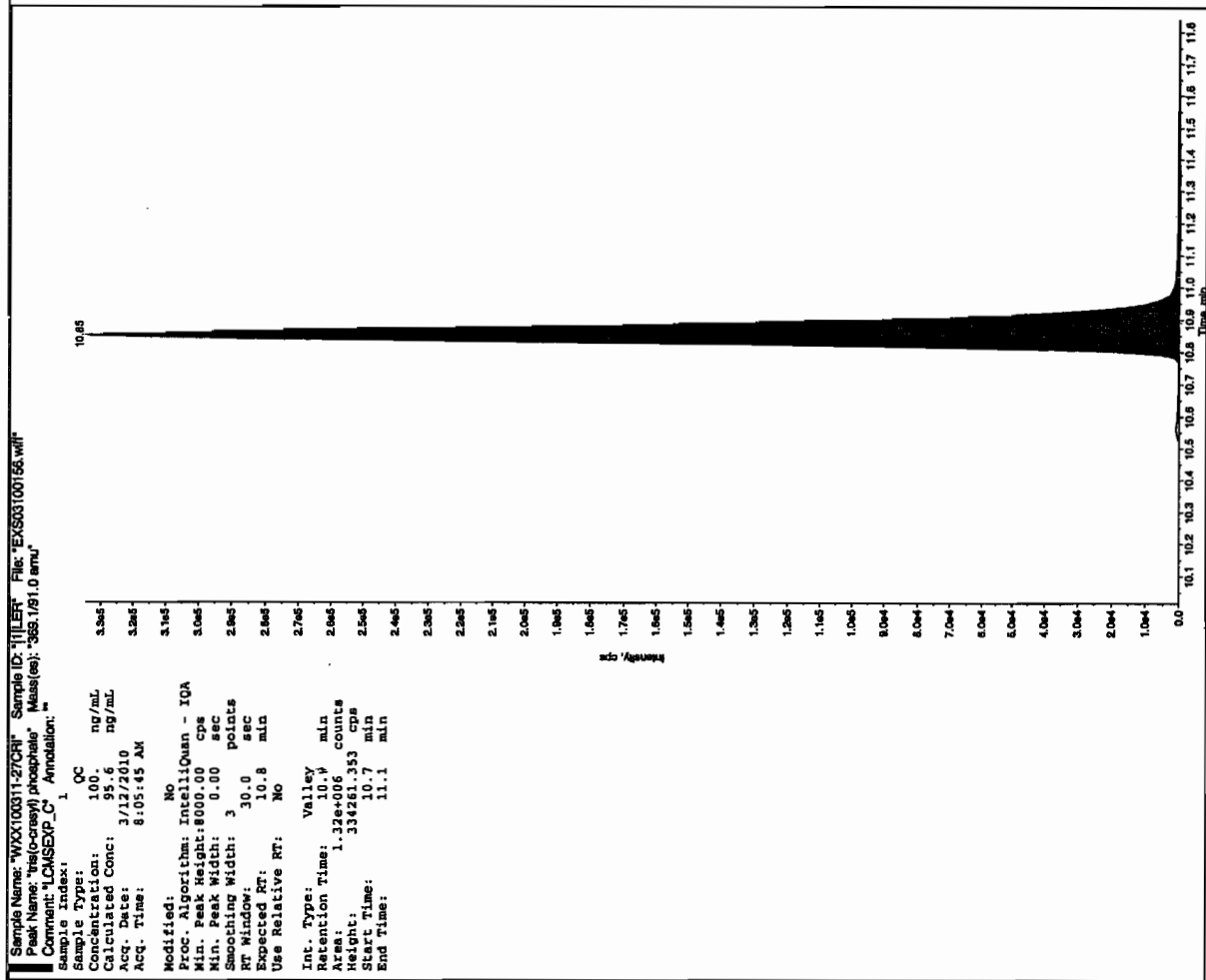
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No

Int. Type: Valley  
Retention Time: 4.96 min  
Area: 1.71e+005 counts  
Height: 41192.471 cps  
Start Time: 4.87 min  
End Time: 5.24 min





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



**7A**  
**Explosives Continuing Calibration Verification**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCCV

**GEL Data File** EXS03100159.wiff

**Analysis Date:** 12-MAR-10 08:53

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	500	378	76	
2,6-Diamino-4-nitrotoluene	500	381	76	
3,4-Dinitrotoluene	250	281	112	
3,5-Dinitroaniline	500	575	115	
TATB	500	568	114	
tris(o-cresyl) phosphate	500	482	97	

**Recovery Limits:**

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

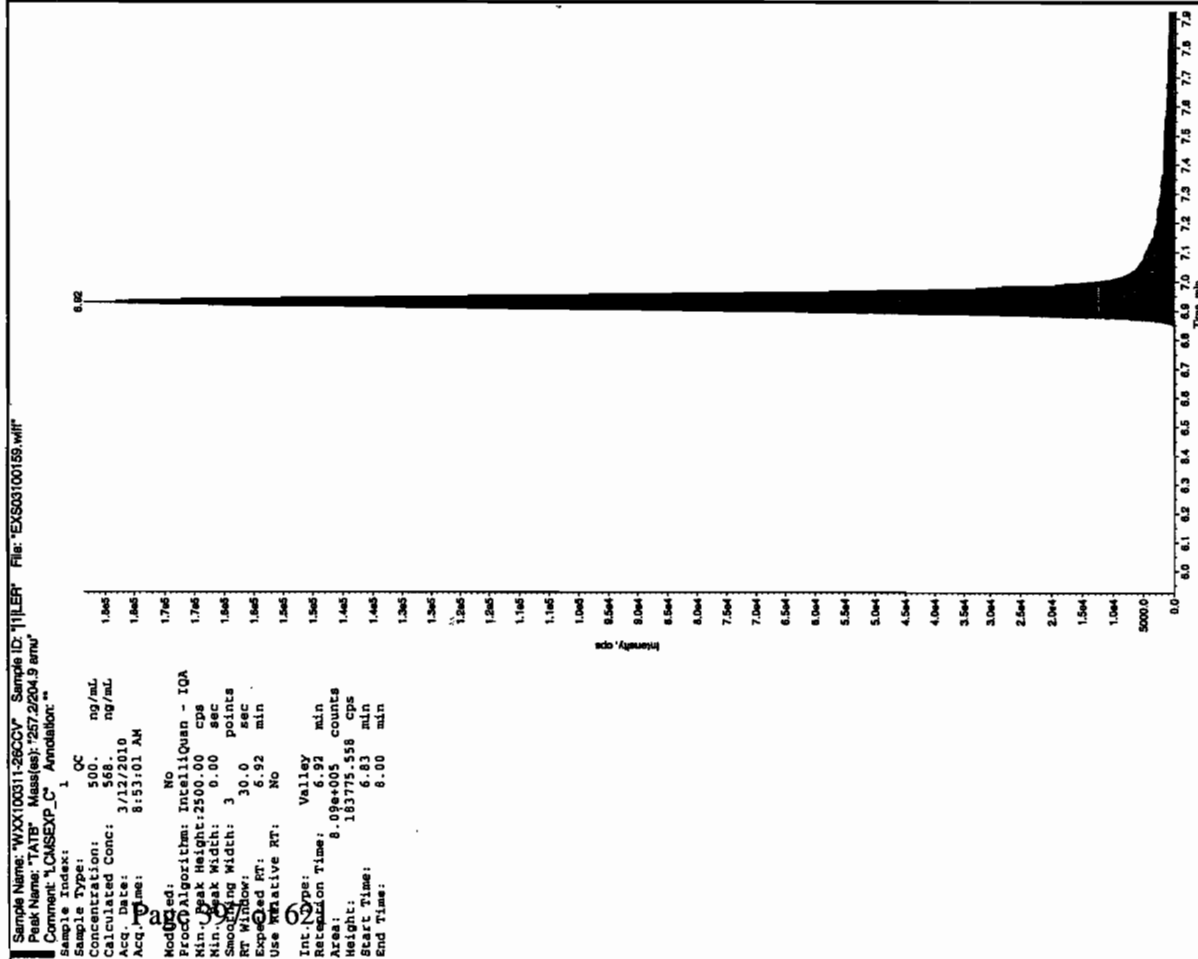
2,4-Diamino-6-nitrotoluene 70-130%

Other Target Analytes 80-120%

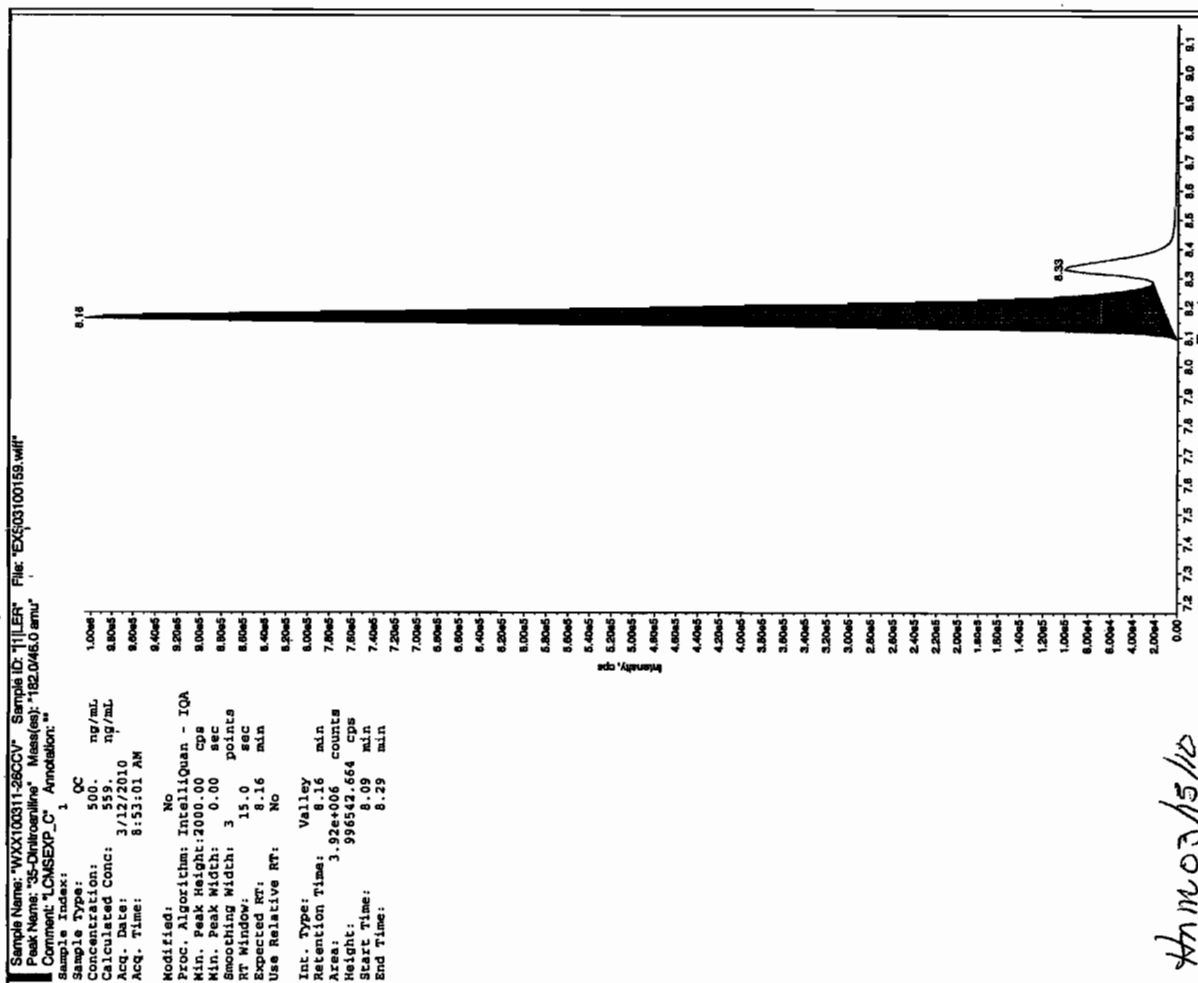
# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits

Before Jan 31/10

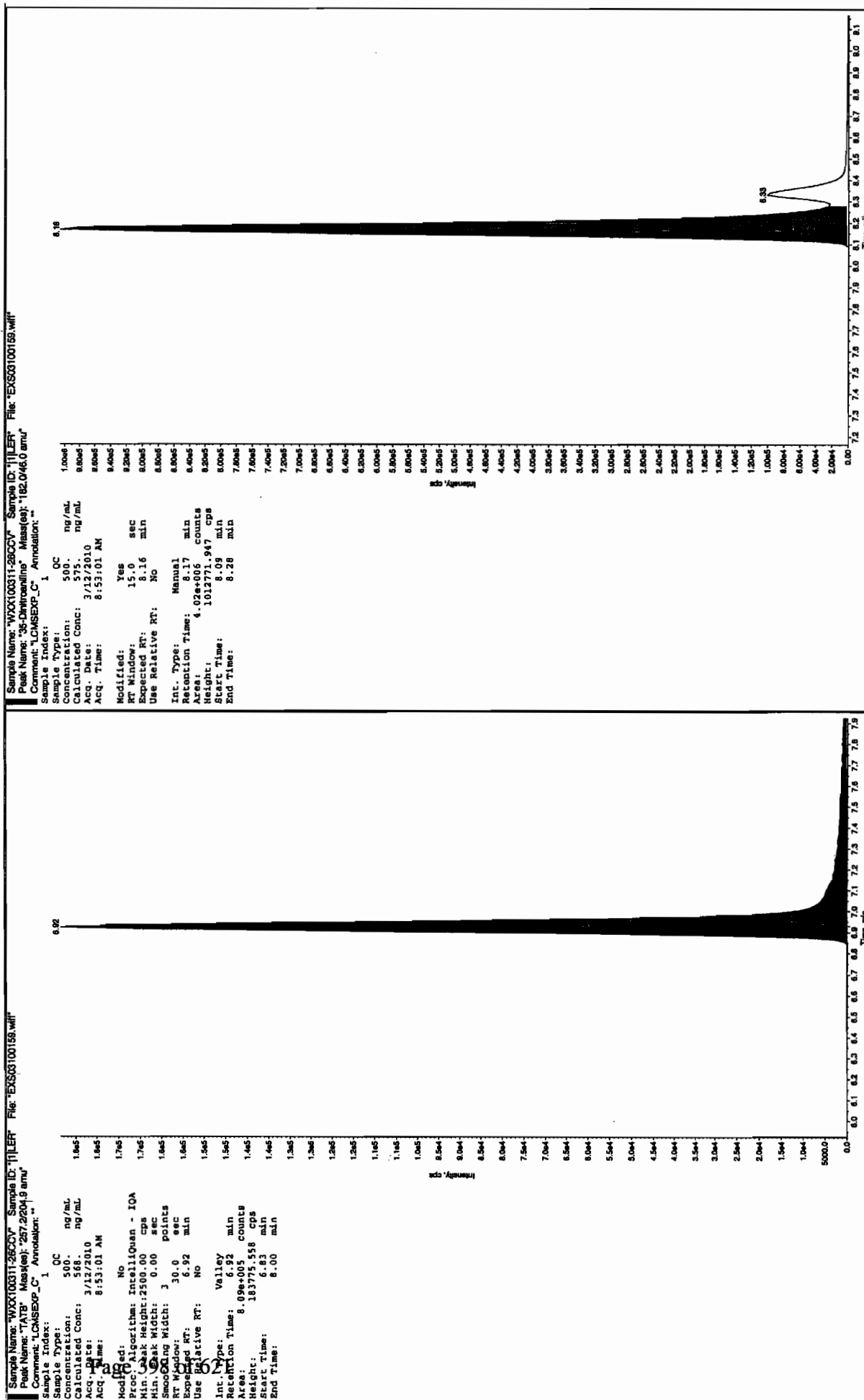


GEL SOP GL-OA-E-056, Method 8321A-Modified LCMSMS#4



Am 03/15/10

after Jan 31/14/10

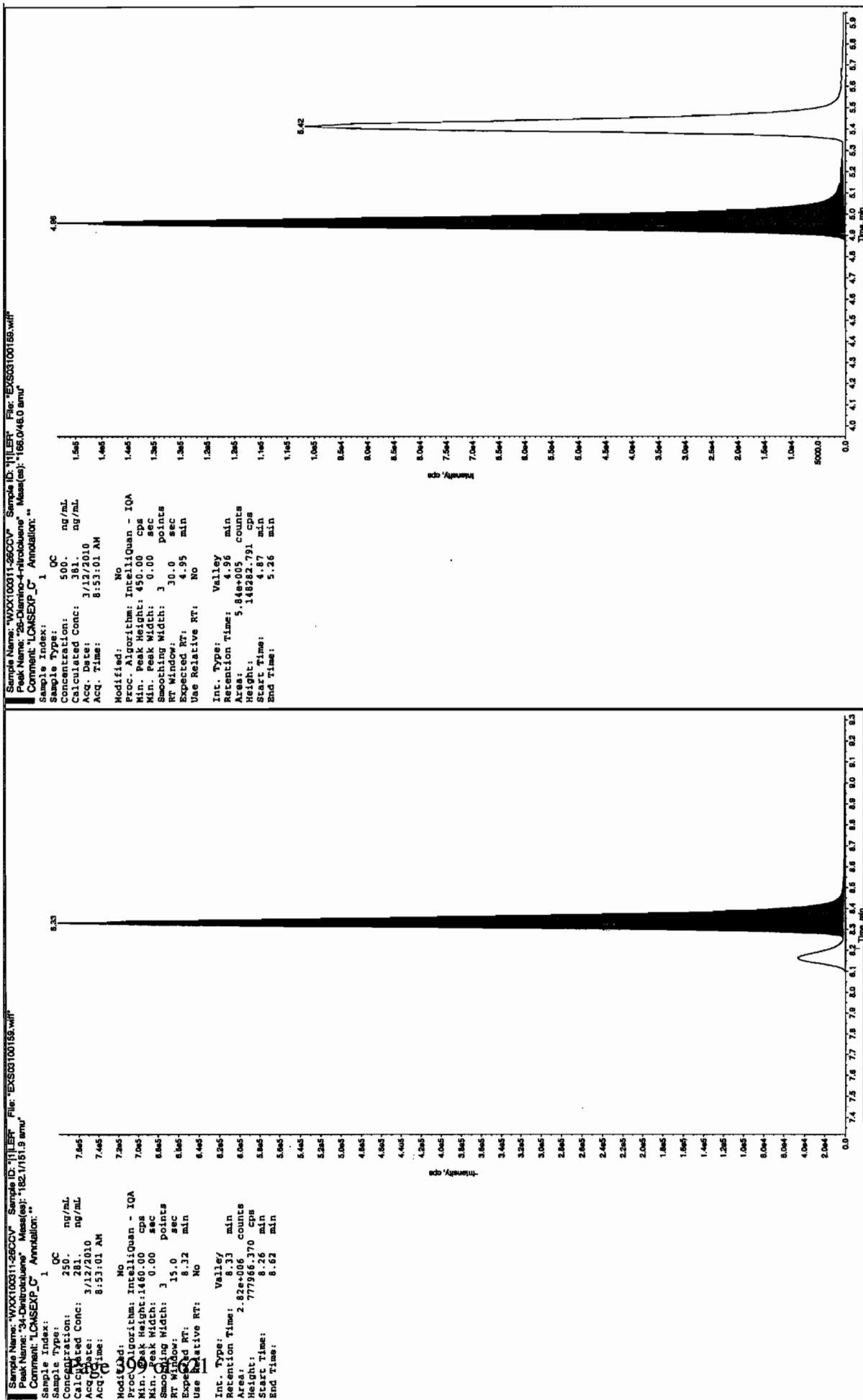


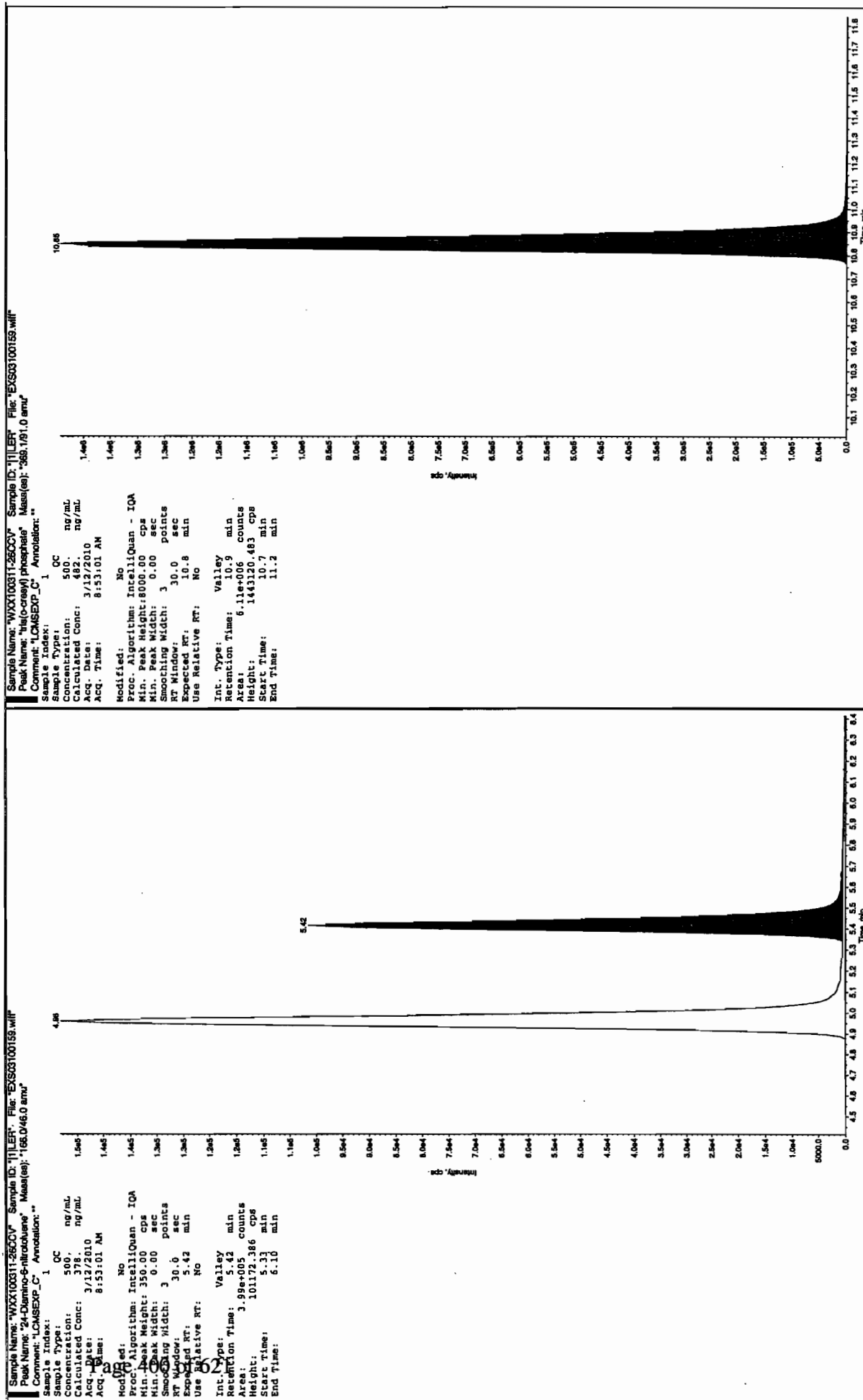
Sample Name: "WXX100311-280CV" Sample ID: "11LRF" File: "EXS03100158.wif"  
Peak Name: "TATB" Mass(es): 257.2204.9 amu  
Comment: "LCMS-EXP-C" Annotation: ""

Sample Index: 1 QC  
Sample Type: 500 ng/mL  
Concentration: 575 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 8:53:01 AM  
Acq. Time: 8:53:01 AM  
Modified: Yes  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Manual  
Retention Time: 8.17 min  
Area: 4.02e+006 counts  
Height: 1012771.947 cps  
Start Time: 8.09 min  
End Time: 8.28 min

Sample Index: 1 QC  
Sample Type: 500 ng/mL  
Concentration: 575 ng/mL  
Calculated Conc: 3/12/2010  
Acq. Date: 8:53:01 AM  
Acq. Time: 8:53:01 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.92 min  
Area: 8.09e+005 counts  
Height: 18379.558 cps  
Start Time: 6.83 min  
End Time: 8.00 min

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





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



**7B**  
**Explosives CRI Standard**

**Lab Name:** GEL Laboratories LLC

**GEL Job No (SDG):** 10-1908

**Lab Code:** GEL

**GEL Sample ID:** WXXCRI

**GEL Data File** EXS03100161.wiff

**Analysis Date:** 12-MAR-10 09:24

**LCMSMS ID:** 1358

**Column ID:** JSphere ODS-H80

Compound	True	Found	Recovery	Q
2,4-Diamino-6-nitrotoluene	100	83.3	83	
2,6-Diamino-4-nitrotoluene	100	82.3	82	
3,4-Dinitrotoluene	50	49.3	99	
3,5-Dinitroaniline	100	85.6	86	
TATB	100	95.8	96	
tris(o-cresyl) phosphate	100	91.6	92	

**Recovery Limits:**

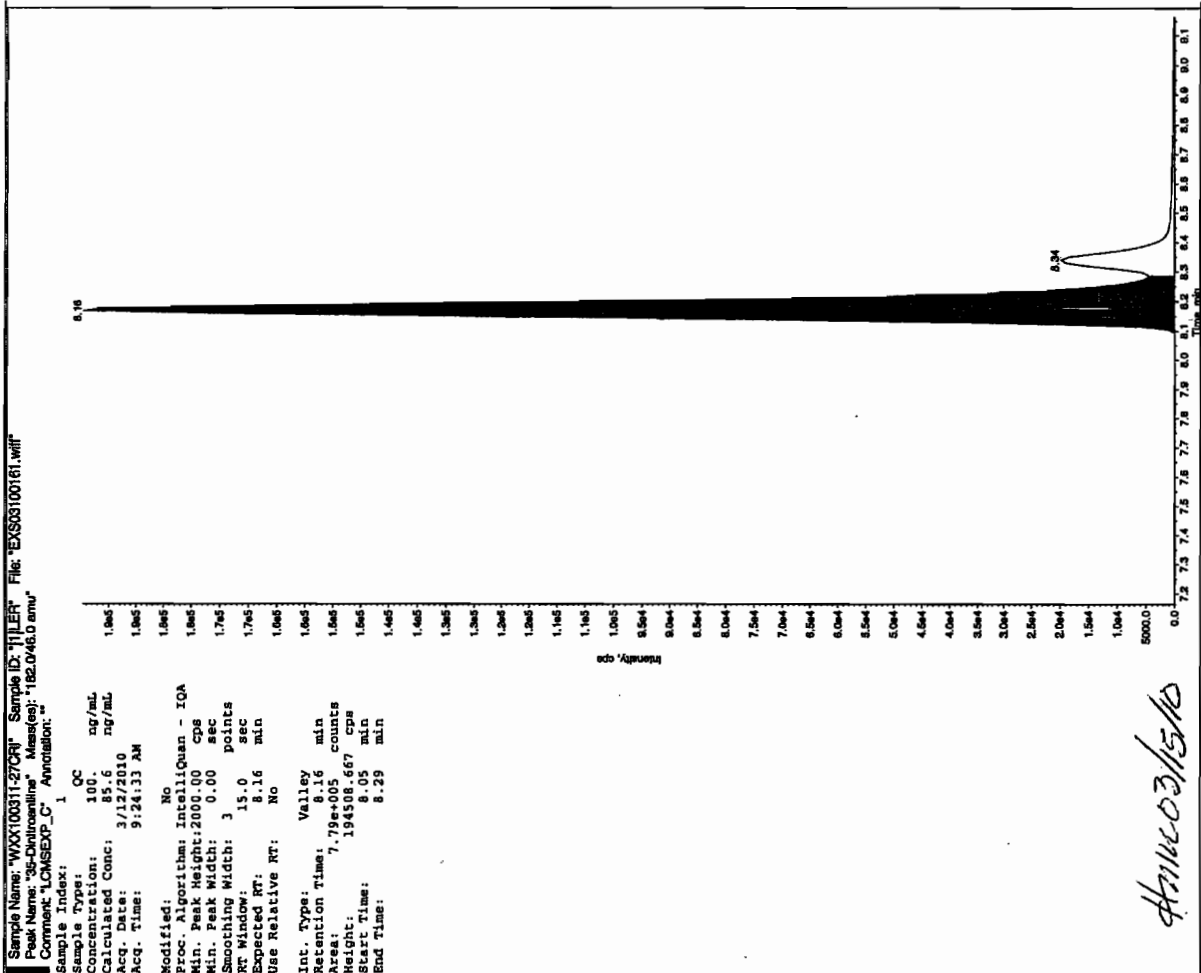
3,4-Dinitrotoluene (Surrogate), TATB, tris(o-cresyl)phosphate, 3,5-Dinitroaniline, 2,6-Diamino-4-nitrotoluene ,

2,4-Diamino-6-nitrotoluene 50-150%

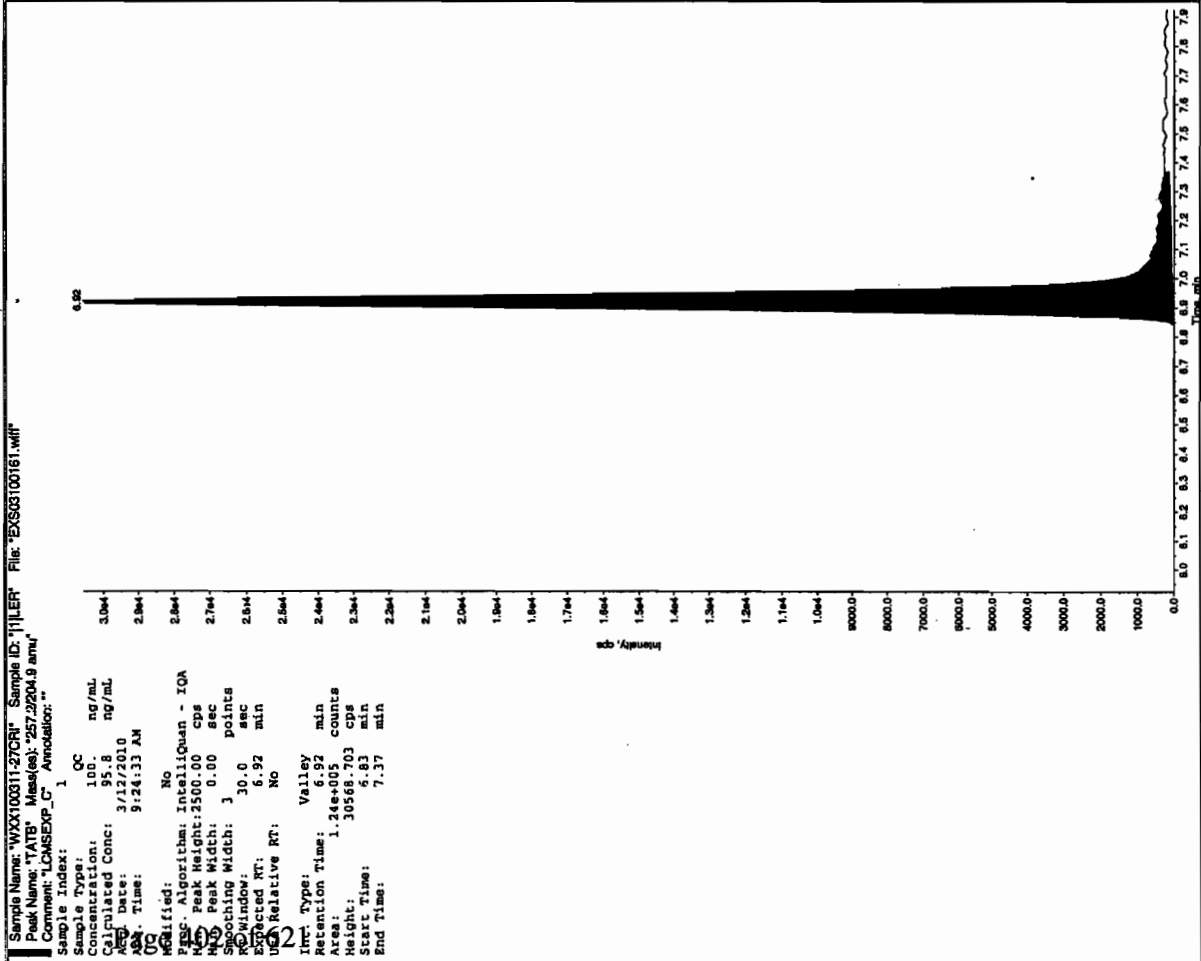
Other Target Analytes 70-130%

# Column used to flag Recovery outside of Limits

\* Value outside of Recovery Limits



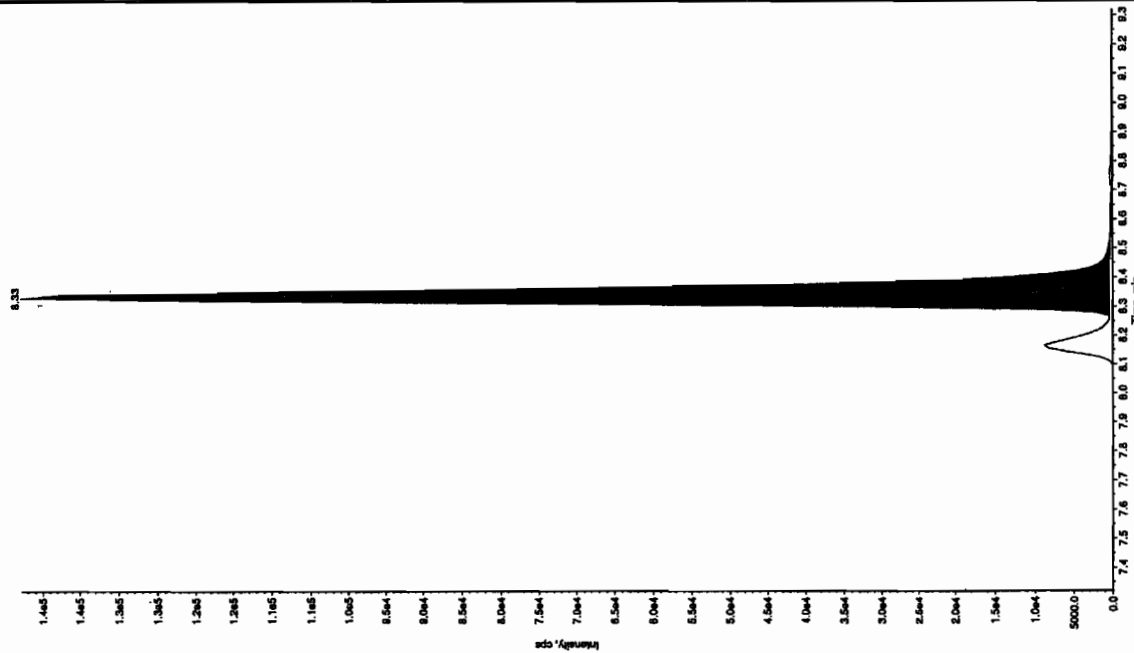
4/15/03/5/10



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

Sample Name: 'WXX100311-27031' Sample ID: '11111' File: 'EXS03100161.wif'  
Peak Name: '28-Diamino-4-nitrotoluene' Mass(es): '182.151.9 amu'  
Comment: 'LCMSEXP\_C' Annotation: ''

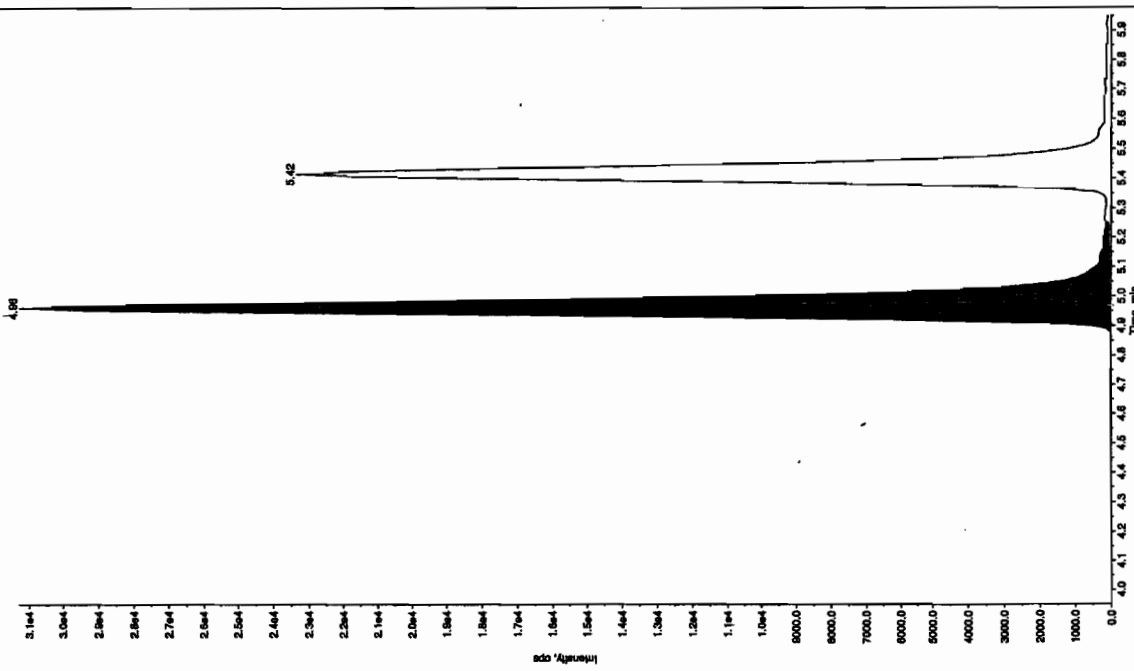
Sample Index: 1  
Sample Type: QC  
Concentration: 50.0 ng/mL  
Calculated Conc: 49.3 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 9:24:33 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 1460.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.32 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.33 min  
Area: 5.29e+005 counts  
Height: 142419.128 cps  
Start Time: 8.26 min  
End Time: 8.66 min



\*GEL SOP GL-OA-E-056, Method 8321A-Modified LCM SMS#4

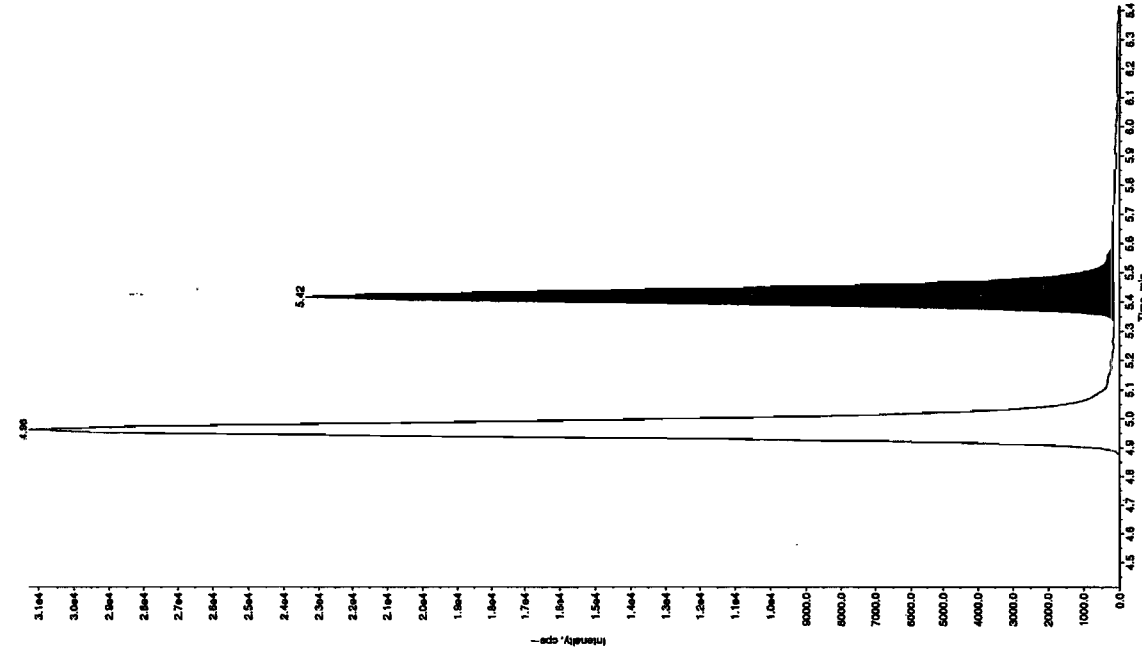
Sample Name: 'WXX100311-27031' Sample ID: '11111' File: 'EXS03100161.wif'  
Peak Name: '28-Diamino-4-nitrotoluene' Mass(es): '186.046.0 amu'  
Comment: 'LCMSEXP\_C' Annotation: ''

Sample Index: 1  
Sample Type: QC  
Concentration: 100. ng/mL  
Calculated Conc: 82.3 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 9:24:33 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 450.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 30.0 sec  
Expected RT: 4.95 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 4.96 min  
Area: 1.26e+005 counts  
Height: 31271.326 cps  
Start Time: 4.86 min  
End Time: 5.25 min



Sample Name: WXX100311-27CR1 Sample ID: 111ER1 File: EX503100161.wif  
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): 162.046.0 amu  
 Comment: "LCMSEXP\_C" Annotation: "

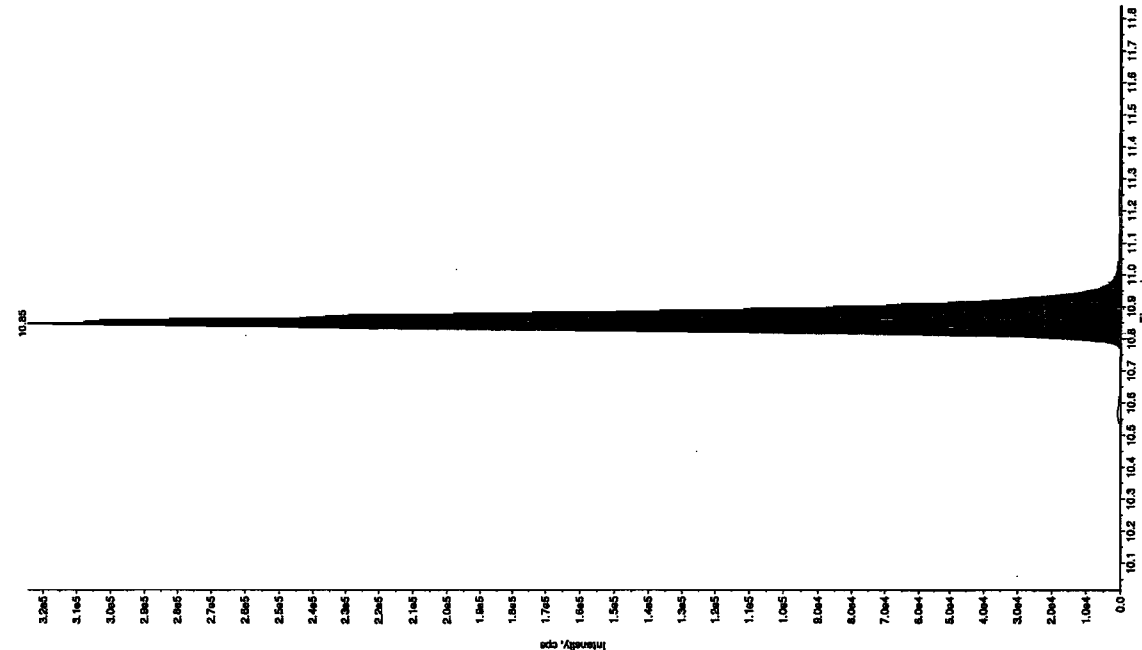
Sample Index: 1 QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 83.3 ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 9:24:33 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 350.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 RT Window: 30.0 sec  
 Expected RT: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.42 min  
 Area: 8.80e+06 counts  
 Height: 23226.486 cps  
 Start Time: 5.31 min  
 End Time: 5.69 min



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

Sample Name: WXX100311-27CR1 Sample ID: 111ER1 File: EX503100161.wif  
 Peak Name: "24-Diamino-6-nitrochlorine" Mass(es): 358.169.0 amu  
 Comment: "LCMSEXP\_D" Annotation: "

Sample Index: 1 QC  
 Concentration: 100. ng/mL  
 Calculated Conc: 91.6 ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 9:24:33 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: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.8 min  
 Area: 1.27e+006 counts  
 Height: 323965.057 cps  
 Start Time: 10.8 min  
 End Time: 11.2 min



# QUALITY CONTROL DATA

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MB for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 1202047525

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412013a

Date Analyzed: 12-APR-10 21:34

Units: ug/kg

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

\*Concentration =

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

Dataset: C:\MASSLYNX\New\_Exp\PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP\PRO\Data\EXP0412013a

Date: 12-Apr-2010

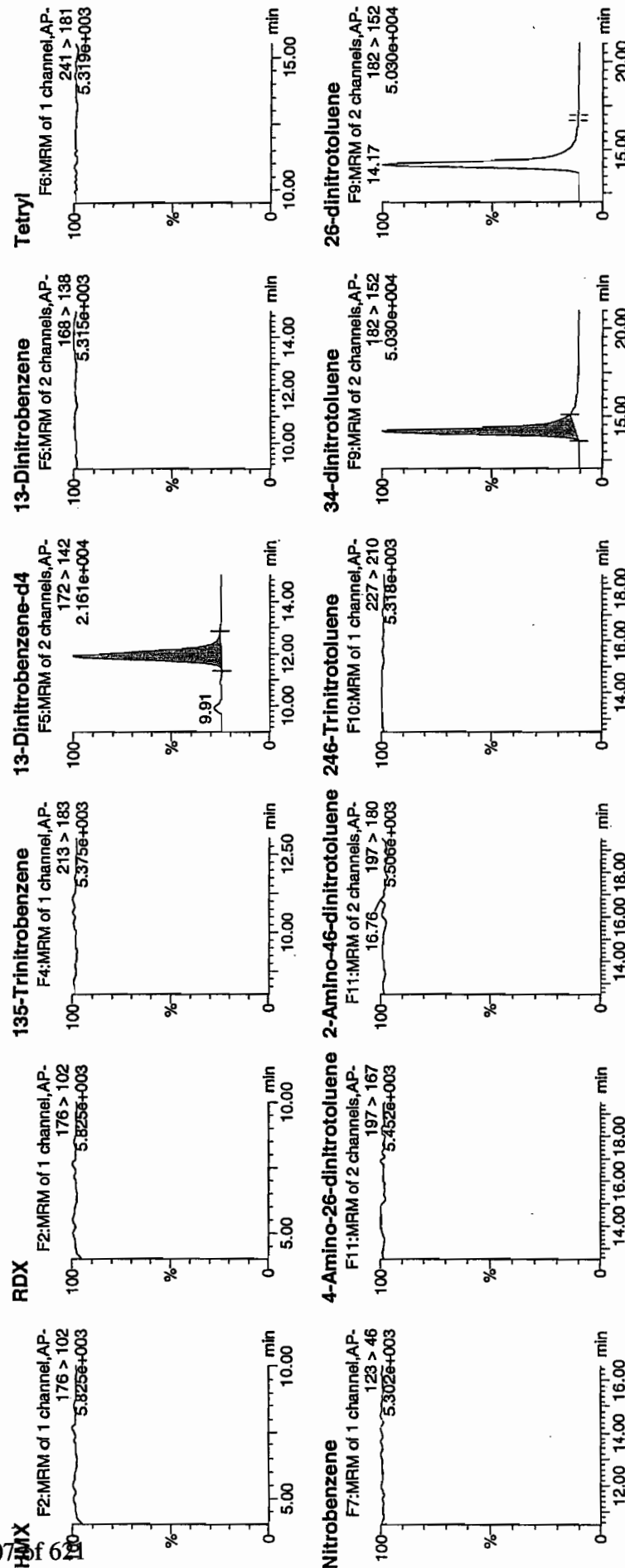
Time: 21:34:28

ID: 1202047525

Vial: 2:1A

4/13/10

LAU/955063 / Souz / NR / 21



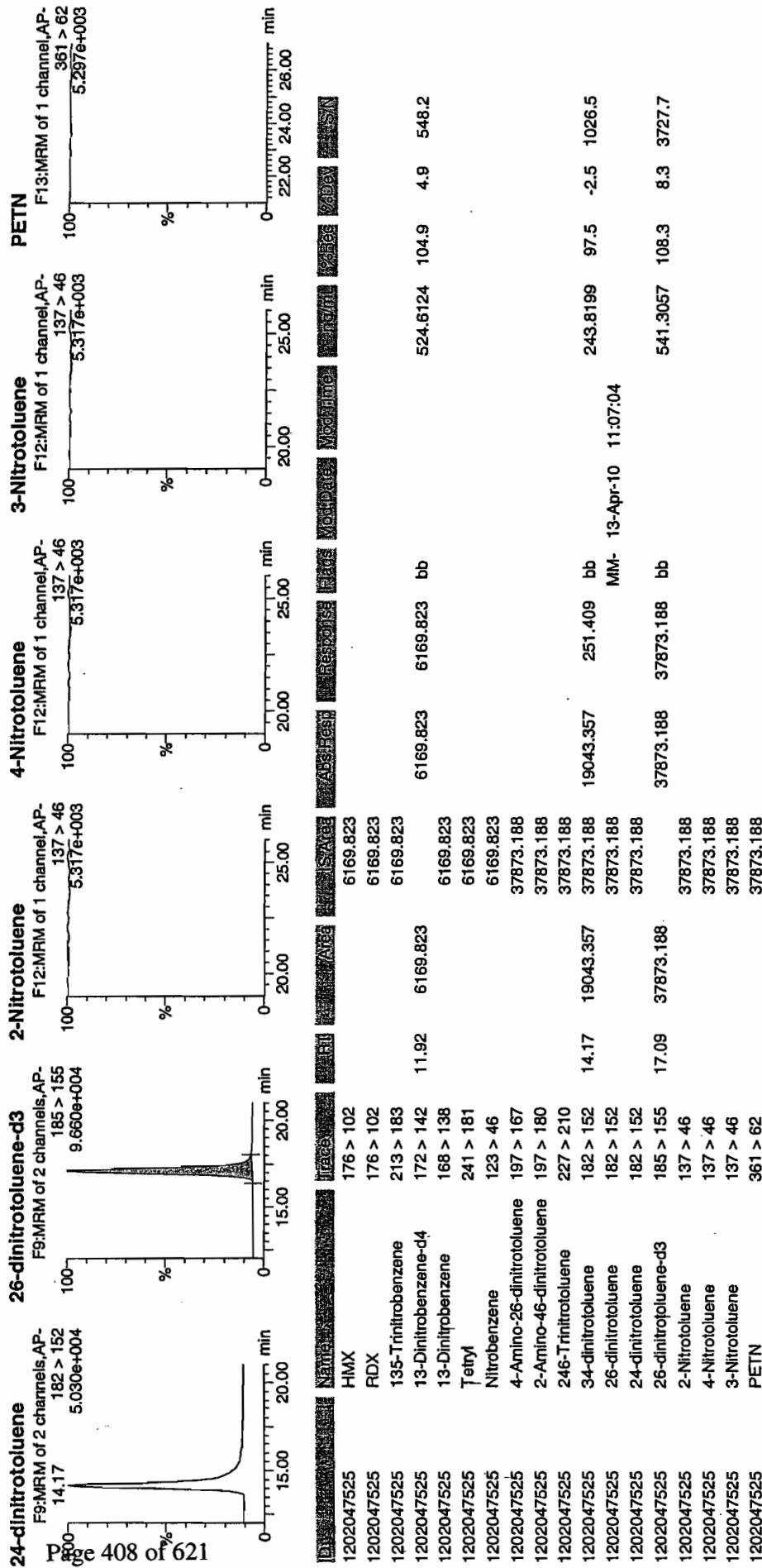
4/13/10

# Quantify Sample Report

GEL Laboratories, LLC / Analyst : Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 26 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010





**1**  
**High Explosives Analysis Data Sheet**

**Lab Name:** GEL Laboratories LLC

**Client Sample ID:** MB for batch 955062

**Lab Code:** GEL

**GEL Job No (SDG)** 10-1908

**Matrix:** SOIL

**GEL Sample ID:** 1202047525

**Sample Amount** 2

**Moisture:**

**Amount Units** g

**Date Received:** 18-FEB-10

**Extraction Type** Sonication

**Extraction Batch ID:** 955062

**Concentrated Extract Volume (mL)** 10

**Date Extracted:** 24-FEB-10

**Dilution Factor:** 2

**Injection Volume (uL):** 50

**GEL data file:** EXS03100131.wiff

**Date Analyzed:** 12-MAR-10 01:32

**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

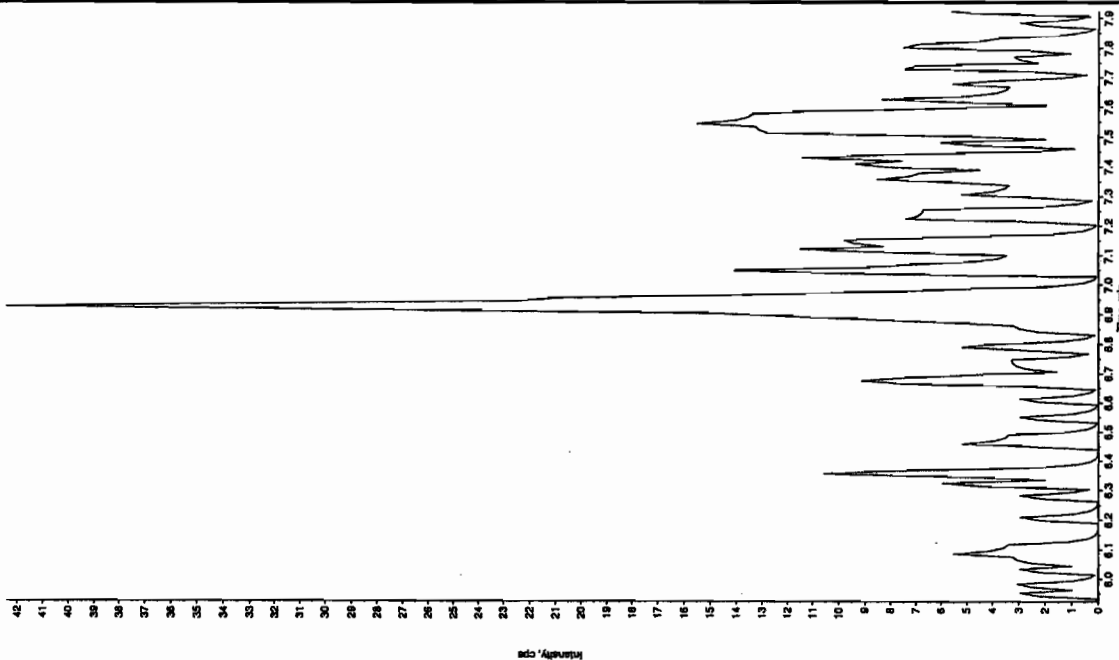
\*Concentration =

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

for 3/14/10

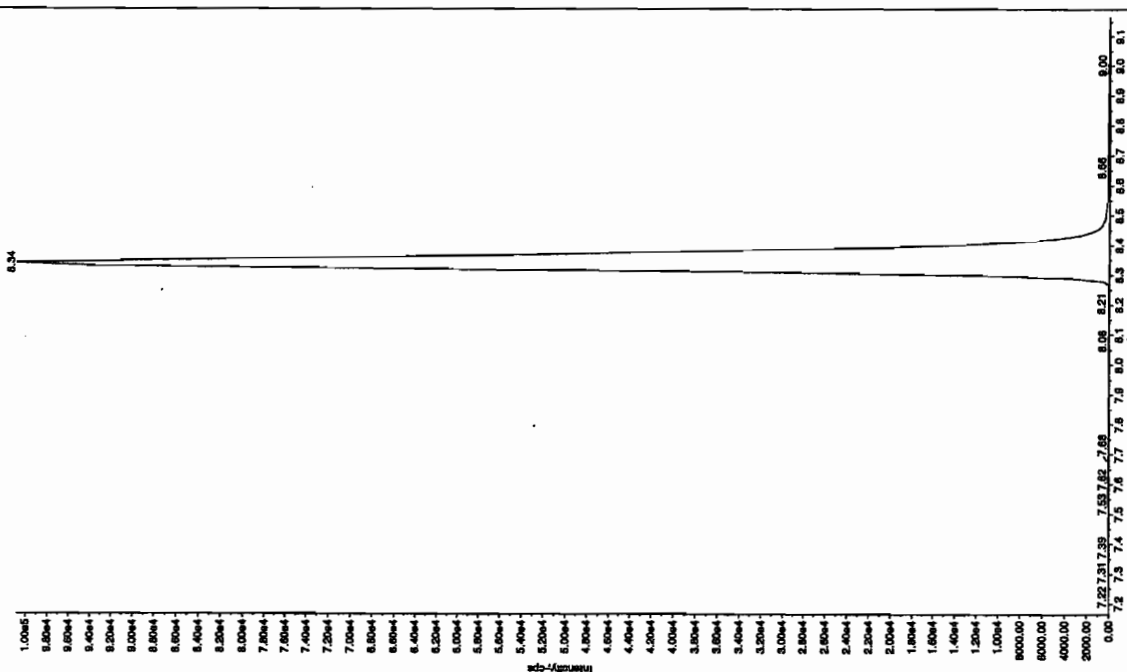
Sample Name: "120207125" Sample ID: "85503211" File: "EX03100131.wif"  
Peak Name: "55-Dinitro" Masses: "257.2201.9 amu"  
Comment: "LC832125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:32:56 AM  
Modified: No

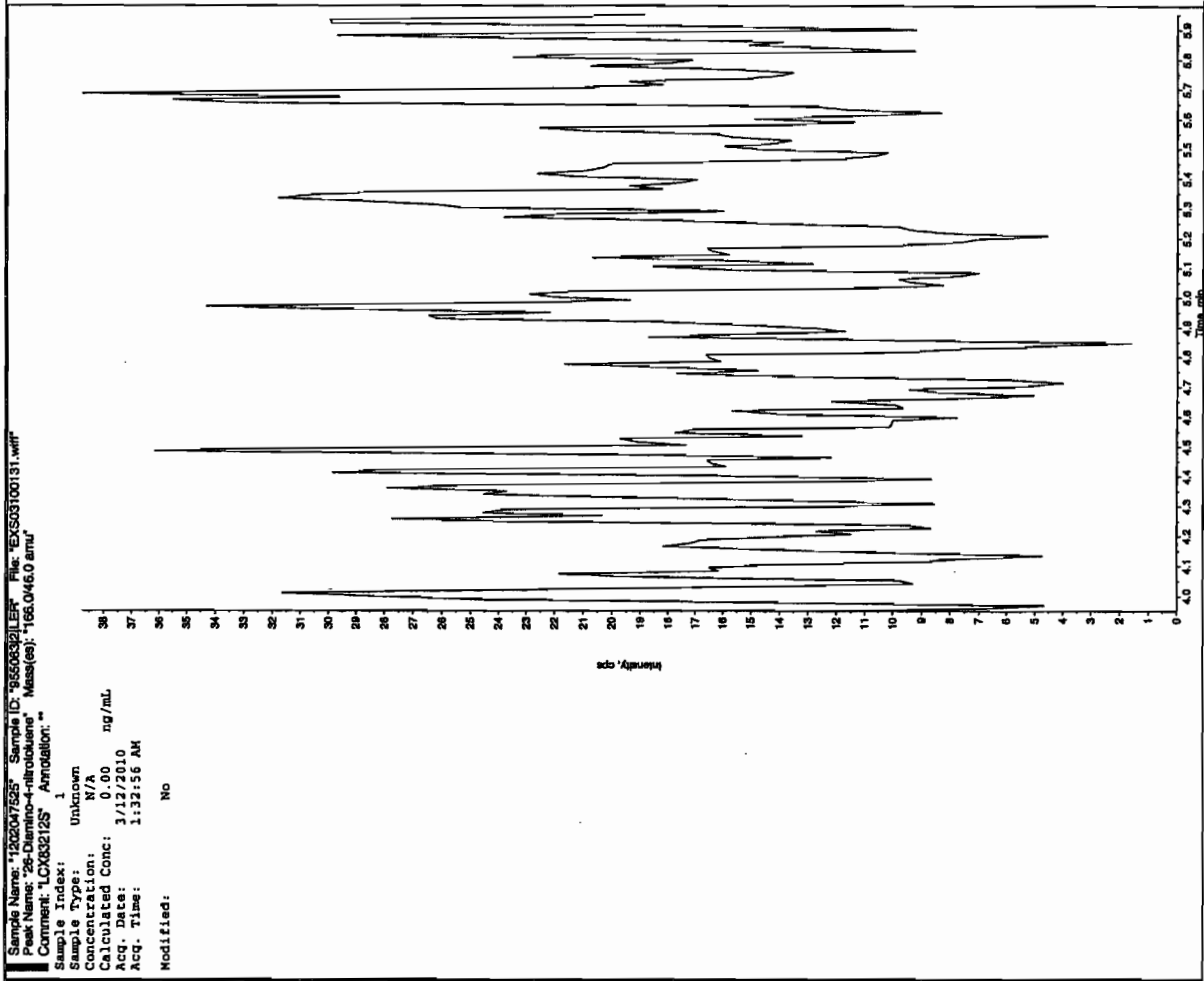
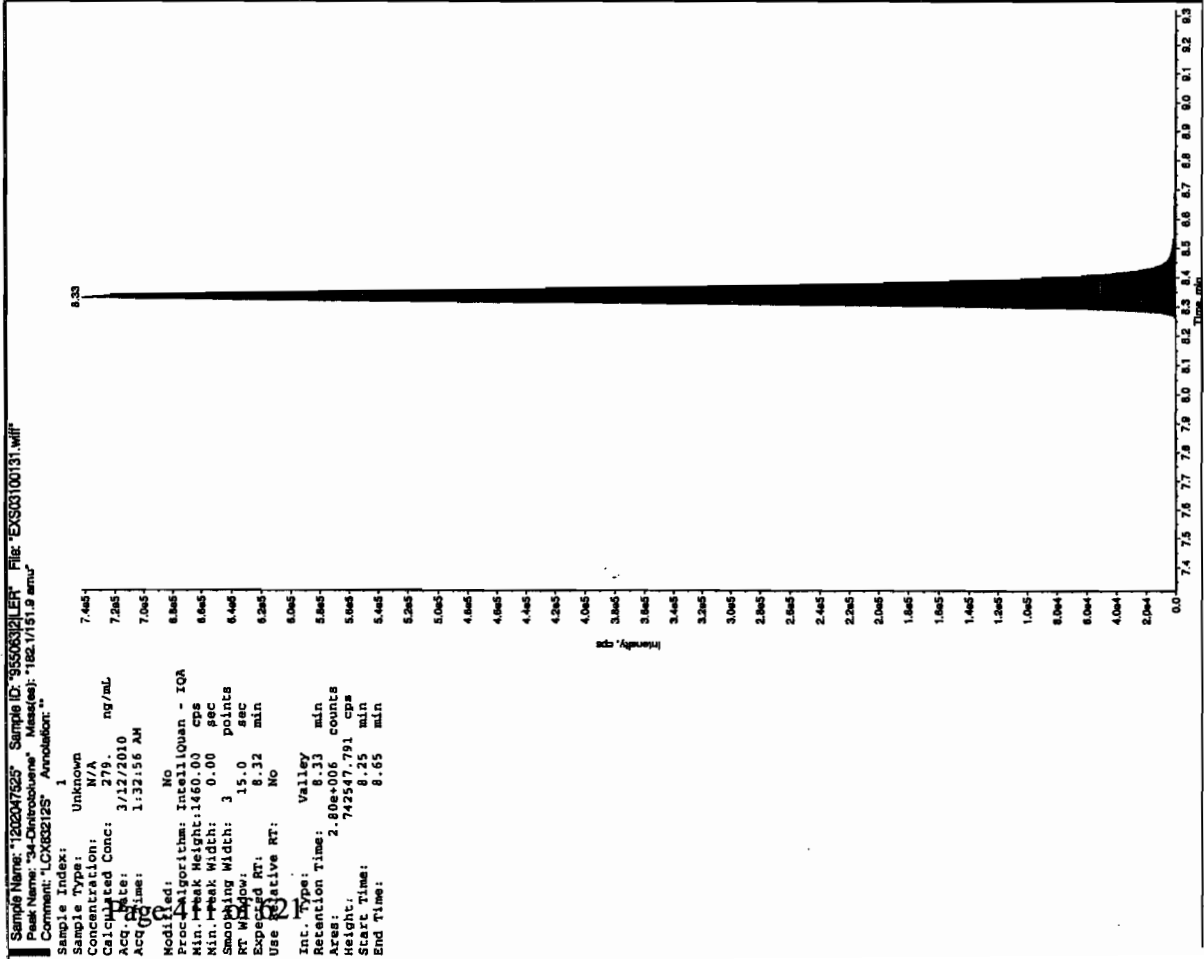


Sample Name: "120207125" Sample ID: "85503211" File: "EX03100131.wif"  
Peak Name: "55-Dinitro" Masses: "182.046.0 amu"  
Comment: "LC832125" Annotation: "1"

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:32:56 AM  
Modified: No



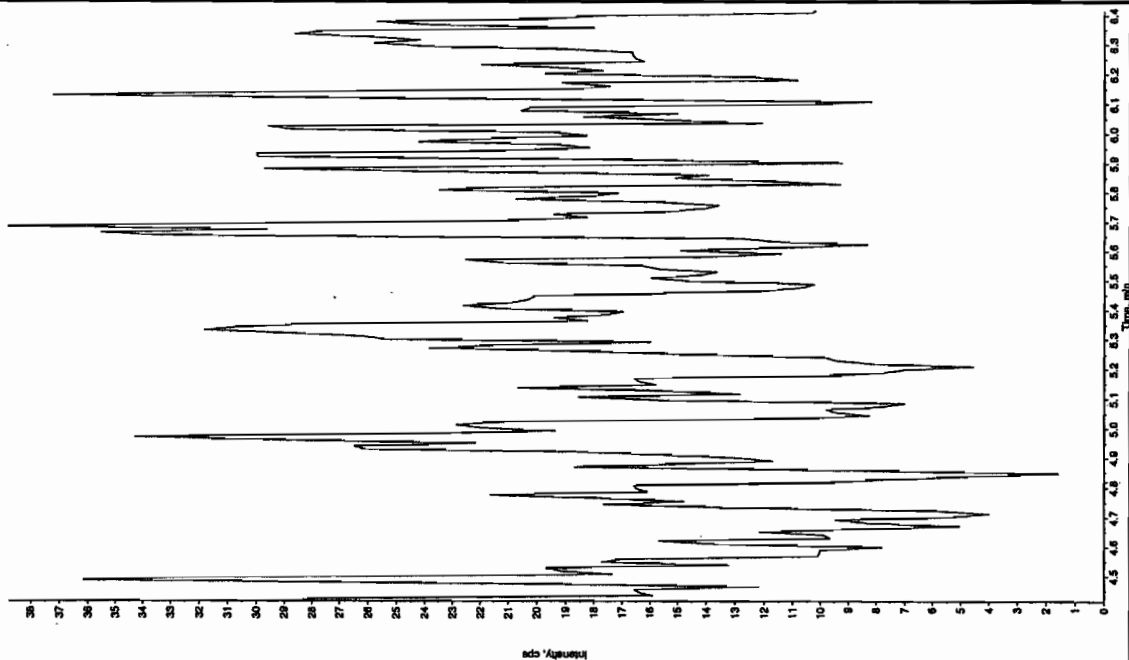
for 3/14/10



Sample Name: "120207255" Sample ID: "955032125" File: "EX503100131.wif"  
Peak Name: "24-Diamine-Enthalolone" Mass(es): "166.046.0 amu"

Comment: "LCX832125" Annotation: ""

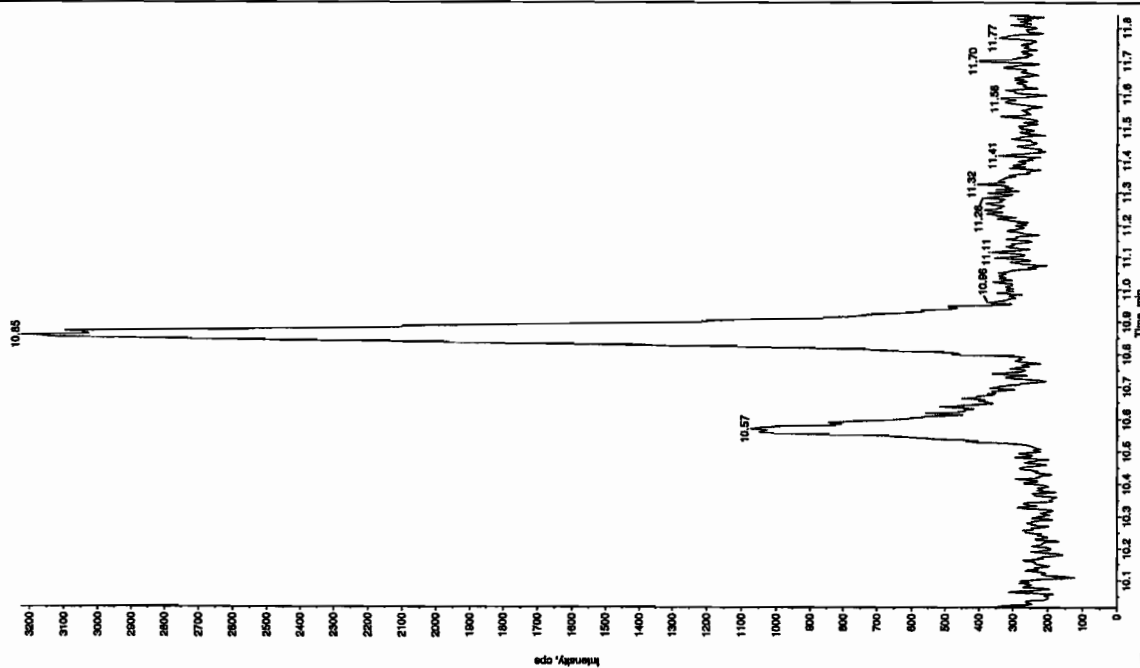
Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:32:56 AM  
Modified: No



Sample Name: "120207255" Sample ID: "955032125" File: "EX503100131.wif"  
Peak Name: "Isa(o-methyl) phosphatid" Mass(es): "359.191.0 amu"

Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 0.00 ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 1:32:56 AM  
Modified: No



1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 1202047526

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP0412014a

Date Analyzed: 12-APR-10 22:04

Units: ug/kg

Cas No.	Compound	Concentration*	Q
118-96-7	2,4,6-Trinitrotoluene	4600	
121-14-2	2,4-Dinitrotoluene	5190	
121-82-4	RDX	5400	
19406-51-0	4-Amino-2,6-dinitrotoluene	4810	
2691-41-0	HMX	4460	
35572-78-2	2-Amino-4,6-dinitrotoluene	4980	
479-45-8	Tetryl	1020	
606-20-2	2,6-Dinitrotoluene	4910	
78-11-5	PETN	4690	
88-72-2	o-Nitrotoluene	4400	
98-95-3	Nitrobenzene	5130	
99-08-1	m-Nitrotoluene	4440	
99-35-4	1,3,5-Trinitrobenzene	3890	
99-65-0	m-Dinitrobenzene	5000	
99-99-0	p-Nitrotoluene	4970	

\*Concentration =

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

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412014a

Date: 12-Apr-2010

Time: 22:04:00

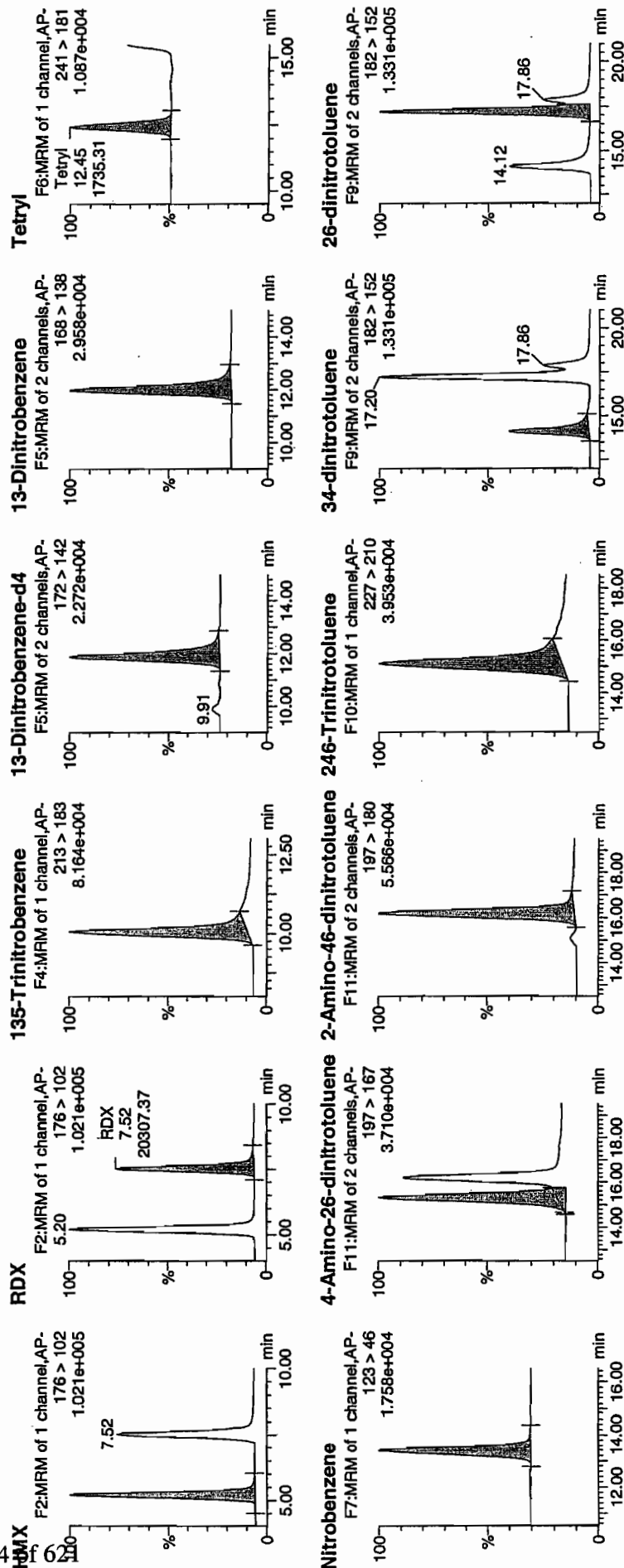
ID: 1202047526

Val: 2:1,B

↓ Tetra

4/13/10

LANU 955063 / 80123 / 21



Amu 04/14/10

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

## 24-dinitrotoluene

F9:MRM of 2 channels,AP-

182 &gt; 152

1.331e+005

17.20

14.12

min

100

%

0

15.00

20.00

min

## 26-dinitrotoluene-d3

F9:MRM of 2 channels,AP-

185 &gt; 155

1.038e+005

1.038e+005

min

100

%

0

15.00

20.00

min

## 2-Nitrotoluene

F12:MRM of 1 channel,AP-

137 &gt; 46

1.178e+004

23.56

min

100

%

0

20.00

25.00

min

## 4-Nitrotoluene

F12:MRM of 1 channel,AP-

137 &gt; 46

1.178e+004

23.56

min

100

%

0

20.00

25.00

min

## 3-Nitrotoluene

F12:MRM of 1 channel,AP-

137 &gt; 46

1.178e+004

20.60

min

100

%

0

20.00

25.00

min

## PETN

F13:MRM of 1 channel,AP-

361 &gt; 62

6.989e+004

22.00

min

100

%

0

22.00

24.00

26.00

min

ID	Name	Area	IS Area	Agreement	Response	Flags	Mod Date	Mod Time	Area	Mod Date	Mod Time	Area	Mod Date	Mod Time
1202047526	HMX	176 > 102	5.20	24837.889	6567.721	24837.889	1890.906	bb	446.1088	89.2	-10.8	2735.4		
1202047526	RDX	176 > 102	7.52	20307.367	6567.721	20307.367	1545.998	bb	540.1430	108.0	8.0	2039.5		
1202047526	135-Trinitrobenzene	213 > 183	10.05	22071.998	6567.721	22071.998	1680.339	bb	388.6993	77.7	-22.3	2262.5		
1202047526	13-Dinitrobenzene	172 > 142	11.87	6567.721	6567.721	6567.721	6567.721	bb	558.4451	111.7	11.7	917.3		
1202047526	13-Dinitrobenzene	168 > 138	11.97	8774.015	6567.721	8774.015	667.965	bb	499.5739	99.9	-0.1	660.7		
1202047526	Tetryl	241 > 181	12.45	1735.312	6567.721	1735.312	132.109	bb	101.9146	20.4	-79.6	165.3		
1202047526	Nitrobenzene	123 > 46	13.37	4224.416	6567.721	4224.416	321.604	bb	512.6832	102.5	2.5	392.1		
1202047526	4-Amino-26-dinitrotoluene	197 > 167	15.32	13096.934	40283.695	13096.934	162.559	MM	481.2812	96.3	-3.7	596.0		
1202047526	2-Amino-46-dinitrotoluene	197 > 180	16.16	20542.570	40283.695	20542.570	254.974	bb	497.8037	99.6	-0.4	1552.6		
1202047526	246-Trinitrotoluene	227 > 210	15.10	16131.211	40283.695	16131.211	200.220	bb	460.2413	92.0	-8.0	429.3		
1202047526	34-dinitrotoluene	182 > 152	14.12	20692.857	40283.695	20692.857	256.839	bb	249.0856	99.6	-0.4	733.2		
1202047526	26-dinitrotoluene	182 > 152	17.20	46804.898	40283.695	46804.898	580.941	MM	490.8511	98.2	-1.8	1946.9		
1202047526	24-dinitrotoluene	182 > 152	17.86	10918.037	40283.695	10918.037	135.514	MM	519.2043	103.8	3.8	407.7		
1202047526	26-dinitrotoluene-d3	185 > 155	17.05	40283.695	40283.695	40283.695	40283.695	bb	575.7581	115.2	15.2	3610.0		
1202047526	2-Nitrotoluene	137 > 46	20.60	3067.486	40283.695	3067.486	38.074	bb	439.7082	87.9	-12.1	246.5		
1202047526	4-Nitrotoluene	137 > 46	21.95	1660.094	40283.695	1660.094	20.605	bb	496.7537	99.4	-0.6	142.0		
1202047526	3-Nitrotoluene	137 > 46	23.56	2085.762	40283.695	2085.762	25.888	bb	444.0397	88.8	-11.2	172.1		
1202047526	PETN	361 > 62	23.94	34906.930	40283.695	34906.930	433.264	bb	468.9668	93.8	-6.2	8658.8		

1  
High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: LCS for batch 955062

Lab Code: GEL

GEL Job No (SDG) 10-1908

Matrix: SOIL

GEL Sample ID: 1202047526

Sample Amount 2

Moisture:

Amount Units g

Date Received: 18-FEB-10

Extraction Type Sonication

Extraction Batch ID: 955062

Concentrated Extract Volume (mL) 10

Date Extracted: 24-FEB-10

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS03100132.wiff

Date Analyzed: 12-MAR-10 01:48

Units: ug/kg

Cas No.	Compound	Concentration*	Q
3058-38-6	TATB	4960	
59229-75-3	2,6-Diamino-4-nitrotoluene	5310	
618-87-1	3,5-Dinitroaniline	5260	
6629-29-4	2,4-Diamino-6-nitrotoluene	5010	
78-30-8	tris(o-cresyl) phosphate	4740	

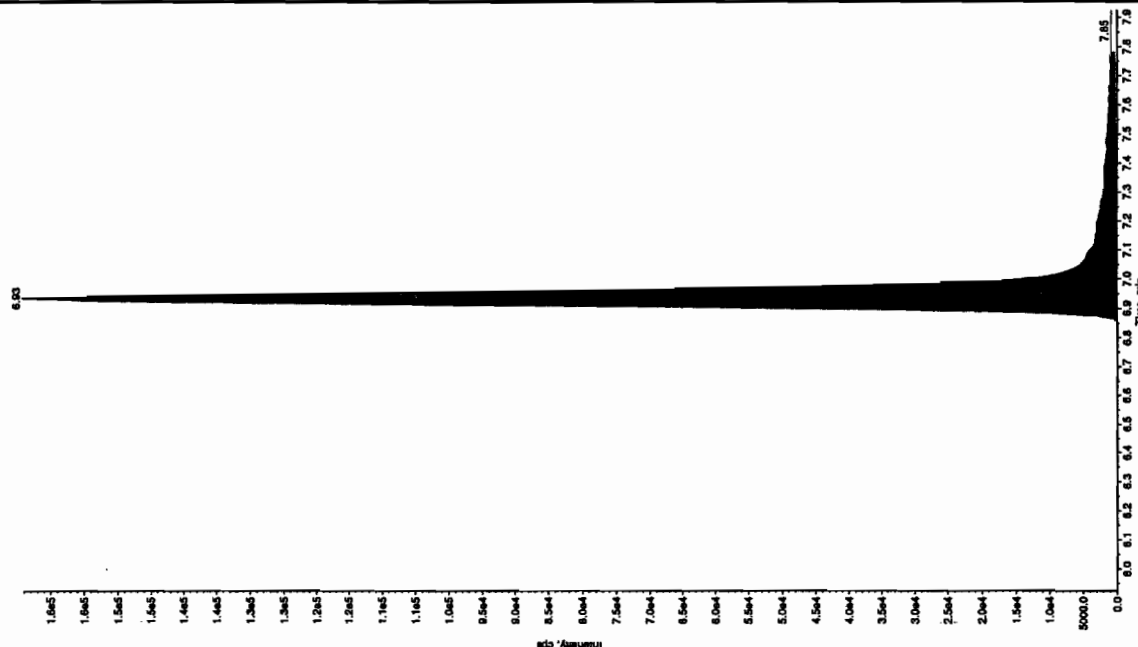
\*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}}$	X	Dilution Factor
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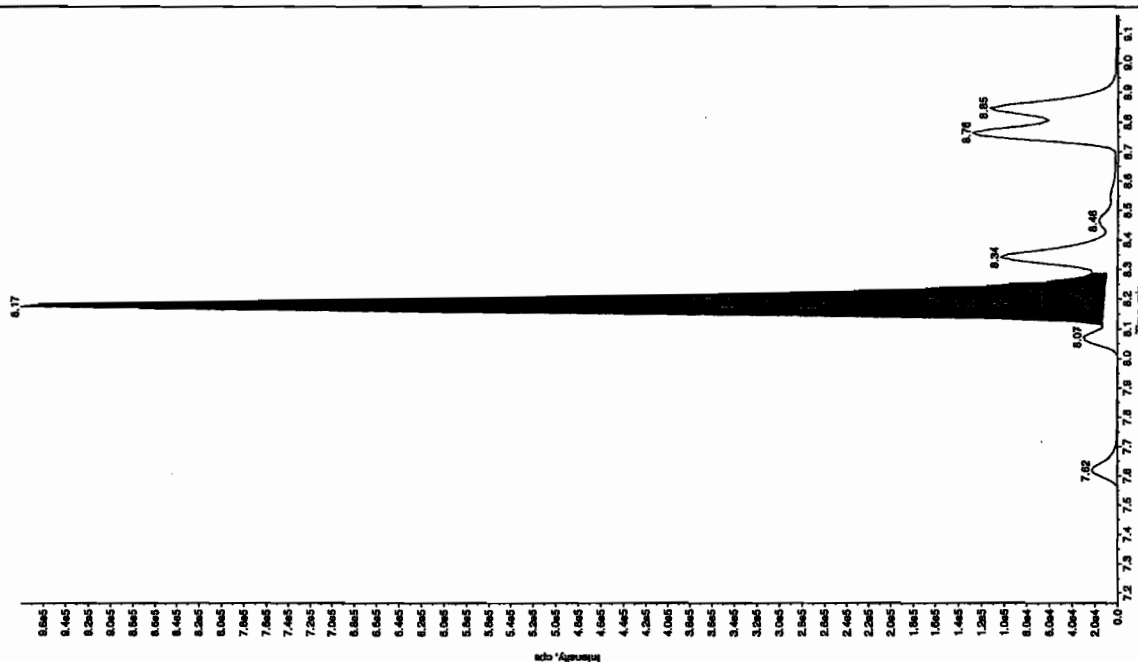
Sample Name: "1202047526" Sample ID: "95506321LER" File: "EXS03100132.wif"  
Peak Name: "TATB" Mass(es): "257.2/204.9 amu"  
Comment: "LCX632125" Annotation: "

Sample Index:	1	Unknown	
Concentration:	486	ng/mL	
Calculated Conc:	486		
Acq Date:	3/12/2010		
Acq Time:	1:48:37 AM		
Mod:	NO		
Mod 2:	NO		
Mod 3:	NO		
Mod 4:	NO		
Mod 5:	NO		
Mod 6:	NO		
Mod 7:	NO		
Mod 8:	NO		
Mod 9:	NO		
Mod 10:	NO		
Mod 11:	NO		
Mod 12:	NO		
Mod 13:	NO		
Mod 14:	NO		
Mod 15:	NO		
Mod 16:	NO		
Mod 17:	NO		
Mod 18:	NO		
Mod 19:	NO		
Mod 20:	NO		
Mod 21:	NO		
Mod 22:	NO		
Mod 23:	NO		
Mod 24:	NO		
Mod 25:	NO		
Mod 26:	NO		
Mod 27:	NO		
Mod 28:	NO		
Mod 29:	NO		
Mod 30:	NO		
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Mod 32:	NO		
Mod 33:	NO		
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Mod 35:	NO		
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Mod 86:	NO		
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Mod 93:	NO		
Mod 94:	NO		
Mod 95:	NO		
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Mod 98:	NO		
Mod 99:	NO		
Mod 100:	NO		
Mod 101:	NO		
Mod 102:	NO		
Mod 103:	NO		
Mod 104:	NO		
Mod 105:	NO		
Mod 106:	NO		
Mod 107:	NO		
Mod 108:	NO		
Mod 109:	NO		
Mod 110:	NO		
Mod 111:	NO		
Mod 112:	NO		
Mod 113:	NO		
Mod 114:	NO		
Mod 115:	NO	</	

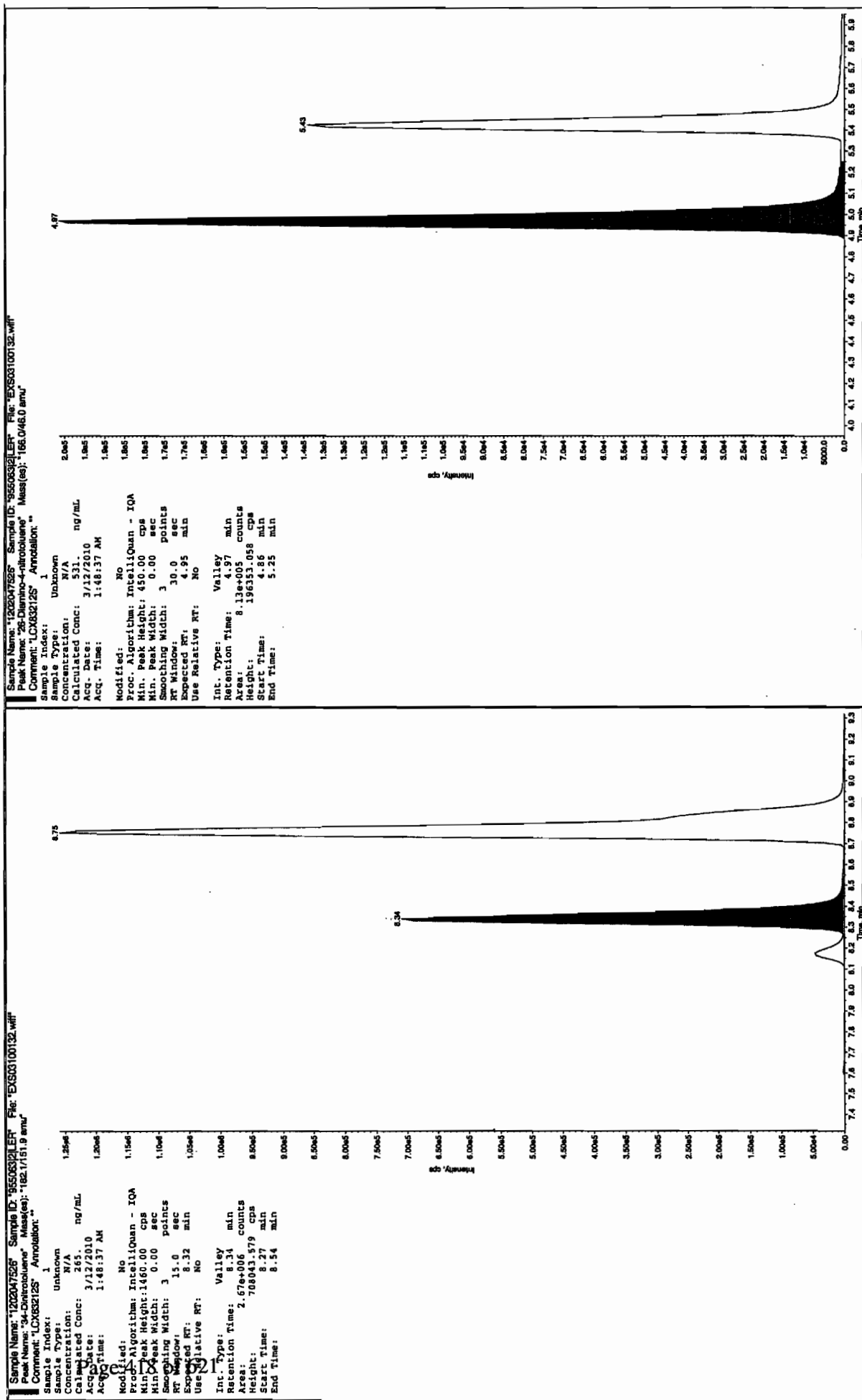


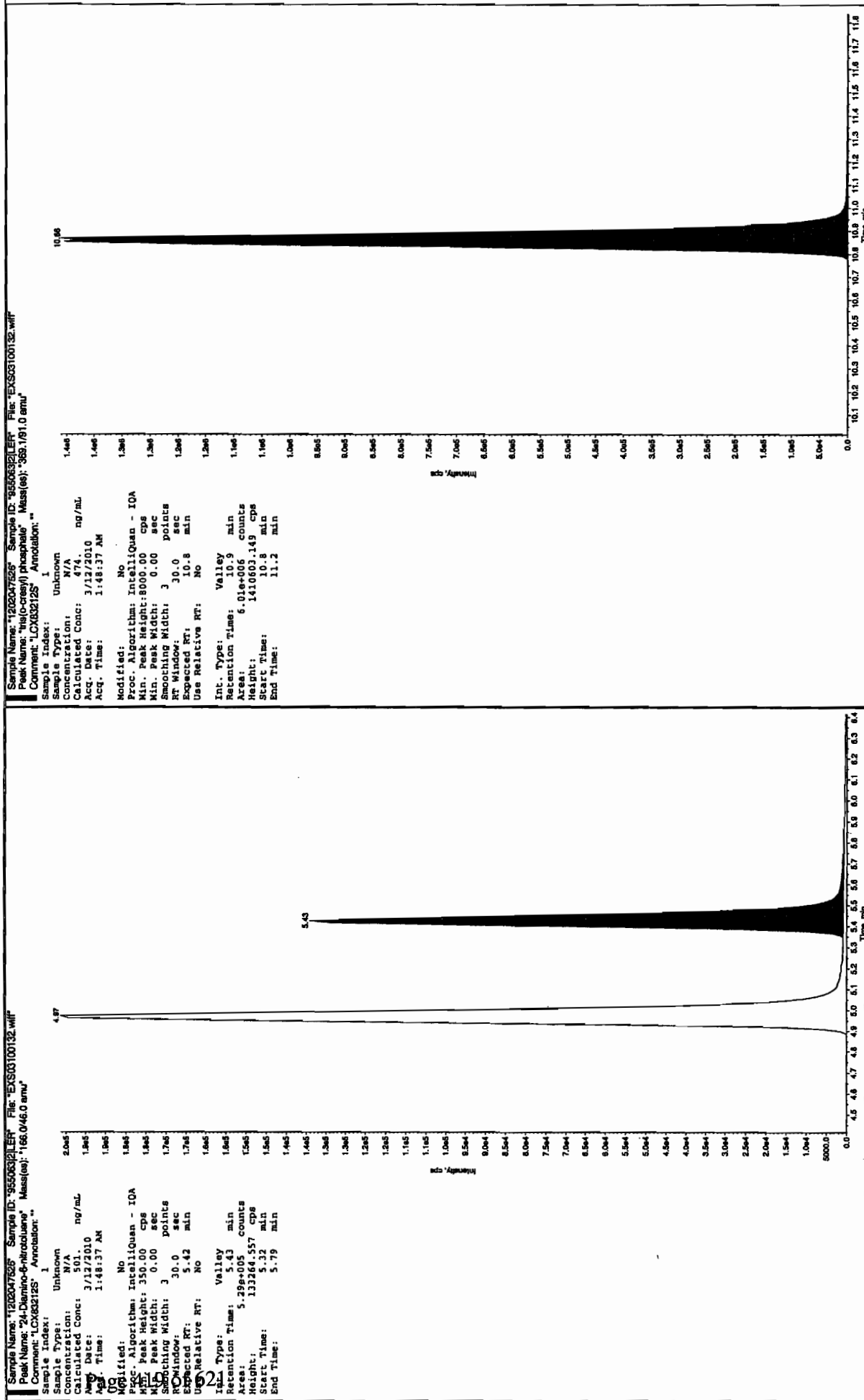
Sample Name: "1202047526" Sample ID: "9550632121ER" File: "EX503100132.wif"  
Peak Name: "3S-Dinitroanthline" Mass(es): "182.046.0 amu"  
Comment: "LCX83212S" Annotation: ""

1	Unknown	ng/mL
Sample ID:		
Sample Type:		
Concentration:	536	
Calculated Conc:	3.12/2010	
Acq. Dates:	1/28/17 AM	
Acq. Time:		
Modified:	NO	
Proc. Algorithm:	IntelliQuan - IQA	
Min. peak Height:	2000.00 cps	
Min. Peak Width:	0.00 sec	
Smoothing Width:	3 points	
Start Window:	15.0 sec	
Expected RT:	8.16 min	
Use Relative RT:	NO	
Int. Type:	Valley	
Retention Time:	8.17 min	
Height:	3.71e+006 counts	
Area:	967296.570 cps	
Start Time:	8.10 min	
End Time:	8.29 min	



01/15/2010





# MISCELLANEOUS DATA

# Prep Logbook

## Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

Batch ID: 955062 Verified by: \_\_\_\_\_ Lab SOP: GL-OA-E-033 REV# 17  
 Analyst: Sirena White Instrument: Semi-Volatiles Manual  
 Method: SW846 8330 PREP

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202047525 MB	24-FEB-2010 15:43:00	2	10	5
1202047526 LCS	24-FEB-2010 15:43:00	2	10	5
247332002	24-FEB-2010 15:43:00	2	10	5
1202047527 MS (247332002)	24-FEB-2010 15:43:00	2	10	5
1202047528 MSD (247332002)	24-FEB-2010 15:43:00	2	10	5
247332003	24-FEB-2010 15:43:00	2	10	5
247332004	24-FEB-2010 15:43:00	2	10	5
247332005	24-FEB-2010 15:43:00	2	10	5
247332006	24-FEB-2010 15:43:00	2	10	5
247332007	24-FEB-2010 15:43:00	2	10	5
247332008	24-FEB-2010 15:43:00	2	10	5
247343001	24-FEB-2010 15:43:00	2	10	5
247343002	24-FEB-2010 15:43:00	2	10	5
247343003	24-FEB-2010 15:43:00	2	10	5
247343004	24-FEB-2010 15:43:00	2	10	5
247343005	24-FEB-2010 15:43:00	2	10	5
247343006	24-FEB-2010 15:43:00	2	10	5
247343007	24-FEB-2010 15:43:00	2	10	5
247343008	24-FEB-2010 15:43:00	2	10	5
247343009	24-FEB-2010 15:43:00	2	10	5
247343010	24-FEB-2010 15:43:00	2	10	5
247343011	24-FEB-2010 15:43:00	2	10	5

### Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202047526	8321 Explosives LCS	DXX100208-03	.1	mL
LCS	1202047526	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
MS	1202047527	8321 Explosives LCS	DXX100208-03	.1	mL
MS	1202047527	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
MSD	1202047528	8321 Explosives LCS	DXX100208-03	.1	mL
MSD	1202047528	8321 LANL Explosives Mix 10mg/L	UXX100210-02.4	1	mL
SURR	All	3,4-Dinitrotoluene (8330 Surr.) 100ppm	DXP100223-02	.05	mL

## GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS #1

Date: 04/12/10

Extr. Injection Volume: 50uL

Sequence Number: 041210expA

Initial Calibration Date: 04/12/10

Method: SW846 8321A-Modified

Int. Std.: UXX100324-02.3

Mobile Phase Lot#: 1296548, 1289686

Standard-Samp Reagent Lot#: 1299881, 1284736

Reviewed BY: *Amc*

Date: 24/11/10

SOP: GL-OA-E-056 Rev.12

Alt Check Std. ID: WXX100412-07

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
EXP0412001a	XIBLK01	MAP	4/12/10 15:40			1		USE	B
EXP0412002a	XIBLK01	MAP	4/12/10 16:10			1		USE	B
EXP0412003a	WXXICAL-01	MAP	4/12/10 16:39			1		USE	I
EXP0412004a	WXXICAL-02	MAP	4/12/10 17:09			1		USE	I
EXP0412005a	WXXICAL-03	MAP	4/12/10 17:38			1		USE	I
EXP0412006a	WXXICAL-04	MAP	4/12/10 18:08			1		USE	I
EXP0412007a	WXXICAL-05	MAP	4/12/10 18:37			1		USE	I
EXP0412008a	WXXICAL-06	MAP	4/12/10 19:07			1		USE	I
EXP0412009a	XIBLK02	MAP	4/12/10 19:36			1		USE	I
EXP0412010a	WXXICV	MAP	4/12/10 20:06			1		USE	B
EXP0412011a	XIBLK03	MAP	4/12/10 20:35			1		USE	C
EXP0412012a	WXXCRI	MAP	4/12/10 21:04			1		USE	B
EXP0412013a	1202047525	MAP	4/12/10 21:34	955063	Various	2	LANL	USE	C
EXP0412014a	1202047526	MAP	4/12/10 22:04	955063	Various	2	LANL	USE	S
EXP0412015a	247332002	MAP	4/12/10 22:33	955063	10-1905	2	LANL	USE	S
EXP0412016a	1202047527	MAP	4/12/10 23:02	955063	10-1905	2	LANL	USE	S
EXP0412017a	1202047528	MAP	4/12/10 23:32	955063	10-1905	2	LANL	USE	S
EXP0412018a	247332003	MAP	4/13/10 0:01	955063	10-1905	2	LANL	USE	S
EXP0412019a	247332004	MAP	4/13/10 0:31	955063	10-1905	2	LANL	USE	S
EXP0412020a	247332005	MAP	4/13/10 1:00	955063	10-1905	2	LANL	USE	S
EXP0412021a	247332006	MAP	4/13/10 1:30	955063	10-1905	2	LANL	USE	S
EXP0412022a	247332007	MAP	4/13/10 1:59	955063	10-1905	2	LANL	USE	S
EXP0412023a	WXXCCV	MAP	4/13/10 2:29			1		USE	C
EXP0412024a	XIBLK04	MAP	4/13/10 2:58			1		USE	B
EXP0412025a	WXXCRI	MAP	4/13/10 3:28			1		USE	C
EXP0412026a	247332008	MAP	4/13/10 3:57	955063	10-1905	2	LANL	USE	S
EXP0412027a	247343001	MAP	4/13/10 4:27	955063	10-1908	2	LANL	USE	S
EXP0412028a	247343002	MAP	4/13/10 4:56	955063	10-1908	2	LANL	USE	S
EXP0412029a	247343003	MAP	4/13/10 5:26	955063	10-1908	2	LANL	USE	S

EXP0412030a	247343004	MAP	4/13/10 5:55	955063	10-1908	2	LANL	USE	S
EXP0412031a	247343005	MAP	4/13/10 6:25	955063	10-1908	2	LANL	USE	S
EXP0412032a	247343006	MAP	4/13/10 6:54	955063	10-1908	2	LANL	USE	S
EXP0412033a	247343007	MAP	4/13/10 7:24	955063	10-1908	2	LANL	USE	S
EXP0412034a	247343008	MAP	4/13/10 7:53	955063	10-1908	2	LANL	USE	S
EXP0412035a	247343009	MAP	4/13/10 8:23	955063	10-1908	2	LANL	USE	S
EXP0412036a	WXXCCV	MAP	4/13/10 8:52			1		USE	C
EXP0412037a	XIBLK05	MAP	4/13/10 9:22			1		USE	B
EXP0412038a	WXXCRI	MAP	4/13/10 9:51			1		USE	C
EXP0412039a	247343010	MAP	4/13/10 10:21	955063	10-1908	2	LANL	USE	S
EXP0412040a	247343011	MAP	4/13/10 10:50	955063	10-1908	2	LANL	USE	S
EXP0412041a	XIBLK06	MAP	4/13/10 11:20			1		USE	B
EXP0412042a	1202052398	MAP	4/13/10 11:50	957196	10-1972	2	LANL	USE	S
EXP0412043a	1202052399	MAP	4/13/10 12:19	957196	10-1972	2	LANL	USE	S
EXP0412044a	247767001	MAP	4/13/10 12:49	957196	10-1972	2	LANL	USE	S
EXP0412045a	1202052401	MAP	4/13/10 13:18	957196	10-1972	2	LANL	USE	S
EXP0412046a	1202052402	MAP	4/13/10 13:48	957196	10-1972	2	LANL	USE	S
EXP0412047a	247767002	MAP	4/13/10 14:17	957196	10-1972	2	LANL	USE	S
EXP0412048a	247767003	MAP	4/13/10 14:47	957196	10-1972	2	LANL	USE	S
EXP0412049a	WXXCCV	MAP	4/13/10 15:16			1		USE	C
EXP0412050a	XIBLK07	MAP	4/13/10 15:46			1		USE	B
EXP0412051a	WXXCRI	MAP	4/13/10 16:15			1		USE	C
EXP0412052a	247767004	MAP	4/13/10 16:45	957196	10-1972	2	LANL	USE	S
EXP0412053a	247767005	MAP	4/13/10 17:14	957196	10-1972	2	LANL	USE	S
EXP0412054a	247767006	MAP	4/13/10 17:44	957196	10-1972	2	LANL	USE	S
EXP0412055a	247767007	MAP	4/13/10 18:13	957196	10-1972	2	LANL	USE	S
EXP0412056a	247767008	MAP	4/13/10 18:43	957196	10-1972	2	LANL	USE	S
EXP0412057a	247767009	MAP	4/13/10 19:12	957196	10-1972	2	LANL	USE	S
EXP0412058a	247767010	MAP	4/13/10 19:42	957196	10-1972	2	LANL	USE	S
EXP0412059a	247767011	MAP	4/13/10 20:11	957196	10-1972	2	LANL	USE	S
EXP0412060a	WXXCCV	MAP	4/13/10 20:41			1		USE	C
EXP0412061a	XIBLK08	MAP	4/13/10 21:10			1		USE	B
EXP0412062a	WXXCRI	MAP	4/13/10 21:40			1		USE	C
EXP0412063a	1202055078	MAP	4/13/10 22:09	958282	Various	2	LANL	USE	S
EXP0412064a	1202055079	MAP	4/13/10 22:39	958282	Various	2	LANL	DUSE	S
EXP0412065a	248017003	MAP	4/13/10 23:08	958282	10-2039	2	LANL	USE	S
EXP0412066a	1202055080	MAP	4/13/10 23:38	958282	10-2039	2	LANL	DUSE	S

EXP0412067a	1202055081	MAP	4/14/10 0:07	958282	10-2039	2	LANL	USE	S
EXP0412068a	248042002	MAP	4/14/10 0:37	958282	10-2057	2	LANL	USE	S
EXP0412069a	248042008	MAP	4/14/10 1:06	958282	10-2057	2	LANL	USE	S
EXP0412070a	248042010	MAP	4/14/10 1:36	958282	10-2057	2	LANL	DUSE	S
EXP0412071a	248047003	MAP	4/14/10 2:05	958282	10-2045	2	LANL	USE	S
EXP0412072a	248047007	MAP	4/14/10 2:35	958282	10-2045	2	LANL	USE	S
EXP0412073a	WXXCVC	MAP	4/14/10 3:04			1		USE	C
EXP0412074a	XIBLK09	MAP	4/14/10 3:34			1		USE	B
EXP0412075a	WXXCRI	MAP	4/14/10 4:03			1		USE	C



## GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS4

Date: 03/10/10

Extr. Injection Volume: 10uL

Method: 8321A-Modified

Sequence Number: 031010exs

Int. Std.: N/A

Initial Calibration Date: 031010

Mobile Phase Lot#: 1268566, 1268568

Standard-Samp Reagent Lot#: 1274562, 1261217

Reviewed By: *hml*  
Date: *03/15/10*  
SOP: GL-OA-E-056 Rev.12  
Alt Check Std. ID: WXX100310-26

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC Flag
EXS03100001.wiff	XIBLK01	LER	3/10/2010 15:31			1		USE	B
EXS03100002.wiff	XIBLK01	LER	3/10/2010 15:47			1		USE	B
EXS03100003.wiff	WXXICAL-19	LER	3/10/2010 16:02			1		USE	I
EXS03100004.wiff	WXXICAL-20	LER	3/10/2010 16:18			1		USE	I
EXS03100005.wiff	WXXICAL-21	LER	3/10/2010 16:34			1		USE	I
EXS03100006.wiff	WXXICAL-22	LER	3/10/2010 16:50			1		USE	I
EXS03100007.wiff	WXXICAL-23	LER	3/10/2010 17:05			1		USE	I
EXS03100008.wiff	WXXICAL-24	LER	3/10/2010 17:21			1		DUSE	I
EXS03100009.wiff	WXXICAL-25	LER	3/10/2010 17:37			1		USE	I
EXS03100010.wiff	XIBLK02	LER	3/10/2010 17:52			1		USE	B
EXS03100011.wiff	WXXICV	LER	3/10/2010 18:08			1		USE	C
EXS03100012.wiff	XIBLK03	LER	3/10/2010 18:24			1		USE	B
EXS03100013.wiff	WXXCRI	LER	3/10/2010 18:39			1		USE	C
EXS03100014.wiff	1202049901	LER	3/10/2010 18:55	956045	VARIOUS	2	LANL	USE	S
EXS03100015.wiff	1202049902	LER	3/10/2010 19:11	956045	VARIOUS	2	LANL	USE	S
EXS03100016.wiff	247421002	LER	3/10/2010 19:26	956045	10-1920	2	LANL	USE	S
EXS03100017.wiff	1202049903	LER	3/10/2010 19:42	956045	10-1920	2	LANL	USE	S
EXS03100018.wiff	1202049904	LER	3/10/2010 19:58	956045	10-1920	2	LANL	USE	S
EXS03100019.wiff	247421003	LER	3/10/2010 20:14	956045	10-1920	2	LANL	USE	S
EXS03100020.wiff	247421004	LER	3/10/2010 20:29	956045	10-1920	2	LANL	USE	S
EXS03100021.wiff	247421005	LER	3/10/2010 20:45	956045	10-1920	2	LANL	USE	S
EXS03100022.wiff	247421006	LER	3/10/2010 21:01	956045	10-1920	2	LANL	USE	S
EXS03100023.wiff	247421007	LER	3/10/2010 21:16	956045	10-1920	2	LANL	USE	S
EXS03100024.wiff	WXXCCV	LER	3/10/2010 21:32			1		USE	C
EXS03100025.wiff	XIBLK04	LER	3/10/2010 21:48			1		USE	B
EXS03100026.wiff	WXXCRI	LER	3/10/2010 22:04			1		USE	C
EXS03100027.wiff	247450002	LER	3/10/2010 22:19	956045	10-1937	2	LANL	USE	S
EXS03100028.wiff	247450003	LER	3/10/2010 22:35	956045	10-1937	2	LANL	USE	S
EXS03100029.wiff	247450004	LER	3/10/2010 22:51	956045	10-1937	2	LANL	USE	S
EXS03100030.wiff	247450005	LER	3/10/2010 23:06	956045	10-1937	2	LANL	USE	S

EXS03100031.wiff	247450006	LER	3/10/2010 23:22	956045	10-1937	2	LANL	USE	S
EXS03100032.wiff	247450007	LER	3/10/2010 23:38	956045	10-1937	2	LANL	USE	S
EXS03100033.wiff	247562002	LER	3/10/2010 23:53	956045	10-1950	2	LANL	USE	S
EXS03100034.wiff	247562003	LER	3/11/2010 0:09	956045	10-1950	2	LANL	USE	S
EXS03100035.wiff	247562004	LER	3/11/2010 0:25	956045	10-1950	2	LANL	USE	S
EXS03100036.wiff	247562005	LER	3/11/2010 0:41	956045	10-1950	2	LANL	USE	S
EXS03100037.wiff	WXXCCV	LER	3/11/2010 0:56			1		USE	C
EXS03100038.wiff	XIBLK05	LER	3/11/2010 1:12			1		USE	B
EXS03100039.wiff	WXXCRI	LER	3/11/2010 1:28			1		USE	C
EXS03100040.wiff	247562006	LER	3/11/2010 1:43	956045	10-1950	2	LANL	USE	S
EXS03100041.wiff	247562007	LER	3/11/2010 1:59	956045	10-1950	2	LANL	USE	S
EXS03100042.wiff	247562008	LER	3/11/2010 2:15	956045	10-1950	2	LANL	USE	S
EXS03100043.wiff	247562009	LER	3/11/2010 2:31	956045	10-1950	2	LANL	USE	S
EXS03100044.wiff	WXXCCV	LER	3/11/2010 2:46			1		USE	C
EXS03100045.wiff	XIBLK06	LER	3/11/2010 3:02			1		USE	B
EXS03100046.wiff	WXXCRI	LER	3/11/2010 3:18			1		USE	C
EXS03100047.wiff	1202056029	LER	3/11/2010 3:33	958682	VARIOUS	2	LANL	USE	S
EXS03100048.wiff	1202056030	LER	3/11/2010 3:49	958682	VARIOUS	2	LANL	USE	S
EXS03100049.wiff	1202056034	LER	3/11/2010 4:05	958682	VARIOUS	2	LANL	USE	S
EXS03100050.wiff	248152002	LER	3/11/2010 4:21	958682	10-2101	2	LANL	USE	S
EXS03100051.wiff	248152004	LER	3/11/2010 4:36	958682	10-2101	2	LANL	USE	S
EXS03100052.wiff	248168006	LER	3/11/2010 4:52	958682	10-2107	2	LANL	USE	S
EXS03100053.wiff	1202056031	LER	3/11/2010 5:08	958682	10-2107	2	LANL	USE	S
EXS03100054.wiff	1202056032	LER	3/11/2010 5:23	958682	10-2107	2	LANL	USE	S
EXS03100055.wiff	WXXCCV	LER	3/11/2010 5:39			1		USE	C
EXS03100056.wiff	XIBLK07	LER	3/11/2010 5:55			1		USE	B
EXS03100057.wiff	WXXCRI	LER	3/11/2010 6:10			1		USE	C
EXS03100058.wiff	1202041884	LER	3/11/2010 6:26	952673	VARIOUS	2	LANL	USE	S
EXS03100059.wiff	1202041885	LER	3/11/2010 6:42	952673	VARIOUS	2	LANL	USE	S
EXS03100060.wiff	1202041891	LER	3/11/2010 6:58	952673	VARIOUS	2	LANL	USE	S
EXS03100061.wiff	246859005	LER	3/11/2010 7:13	952673	10-1779	2	LANL	USE	S
EXS03100062.wiff	246879005	LER	3/11/2010 7:29	952673	10-1776	2	LANL	USE	S
EXS03100063.wiff	246879012	LER	3/11/2010 7:45	952673	10-1776	2	LANL	USE	S
EXS03100064.wiff	246888006	LER	3/11/2010 8:00	952673	10-1773	2	LANL	USE	S
EXS03100065.wiff	246888010	LER	3/11/2010 8:16	952673	10-1773	2	LANL	USE	S
EXS03100066.wiff	WXXCCV	LER	3/11/2010 8:32			1		USE	C
EXS03100067.wiff	XIBLK08	LER	3/11/2010 8:48			1		USE	B



EXS03100105.wiff	WXXCRI	LER	3/11/2010 18:44	957198	10-1975	1	LANL	USE	C
EXS03100106.wiff	1202052402	LER	3/11/2010 19:00	957198	10-1975	2	LANL	USE	S
EXS03100107.wiff	1202052403	LER	3/11/2010 19:16	957198	10-1975	2	LANL	USE	S
EXS03100108.wiff	247775003	LER	3/11/2010 19:31	957198	10-1975	2	LANL	USE	S
EXS03100109.wiff	1202052404	LER	3/11/2010 19:47	957198	10-1975	2	LANL	USE	S
EXS03100110.wiff	1202052405	LER	3/11/2010 20:03	957198	10-1975	2	LANL	USE	S
EXS03100111.wiff	247775004	LER	3/11/2010 20:18	957198	10-1975	2	LANL	USE	S
EXS03100112.wiff	247775005	LER	3/11/2010 20:34	957198	10-1975	2	LANL	USE	S
EXS03100113.wiff	247775006	LER	3/11/2010 20:50	957198	10-1975	2	LANL	USE	S
EXS03100114.wiff	247775007	LER	3/11/2010 21:06	957198	10-1975	2	LANL	USE	S
EXS03100115.wiff	247775008	LER	3/11/2010 21:21	957198	10-1975	2	LANL	USE	S
EXS03100116.wiff	WXXCCV	LER	3/11/2010 21:37			1		USE	C
EXS03100117.wiff	XIBLK12	LER	3/11/2010 21:53			1		USE	B
EXS03100118.wiff	WXXCRI	LER	3/11/2010 22:08			1		USE	C
EXS03100119.wiff	247775009	LER	3/11/2010 22:24	957198	10-1975	2	LANL	USE	S
EXS03100120.wiff	247775010	LER	3/11/2010 22:40	957198	10-1975	2	LANL	USE	S
EXS03100121.wiff	247775011	LER	3/11/2010 22:55	957198	10-1975	2	LANL	USE	S
EXS03100122.wiff	247775012	LER	3/11/2010 23:11	957198	10-1975	2	LANL	USE	S
EXS03100123.wiff	247775013	LER	3/11/2010 23:27	957198	10-1975	2	LANL	USE	S
EXS03100124.wiff	247775014	LER	3/11/2010 23:43	957198	10-1975	2	LANL	USE	S
EXS03100125.wiff	247775015	LER	3/11/2010 23:58	957198	10-1975	2	LANL	USE	S
EXS03100126.wiff	247775016	LER	3/12/2010 0:14	957198	10-1975	2	LANL	USE	S
EXS03100127.wiff	247775017	LER	3/12/2010 0:30	957198	10-1975	2	LANL	USE	S
EXS03100128.wiff	WXXCCV	LER	3/12/2010 0:45			1		USE	C
EXS03100129.wiff	XIBLK13	LER	3/12/2010 1:01			1		USE	B
EXS03100130.wiff	WXXCRI	LER	3/12/2010 1:17			1		USE	C
EXS03100131.wiff	1202047525	LER	3/12/2010 1:32	955063	VARIOUS	2	LANL	USE	S
EXS03100132.wiff	1202047526	LER	3/12/2010 1:48	955063	VARIOUS	2	LANL	USE	S
EXS03100133.wiff	247332002	LER	3/12/2010 2:04	955063	10-1905	2	LANL	USE	S
EXS03100134.wiff	1202047527	LER	3/12/2010 2:20	955063	10-1905	2	LANL	USE	S
EXS03100135.wiff	1202047528	LER	3/12/2010 2:35	955063	10-1905	2	LANL	USE	S
EXS03100136.wiff	247332003	LER	3/12/2010 2:51	955063	10-1905	2	LANL	USE	S
EXS03100137.wiff	247332004	LER	3/12/2010 3:07	955063	10-1905	2	LANL	USE	S
EXS03100138.wiff	247332005	LER	3/12/2010 3:22	955063	10-1905	2	LANL	USE	S
EXS03100139.wiff	247332006	LER	3/12/2010 3:38	955063	10-1905	2	LANL	USE	S
EXS03100140.wiff	247332007	LER	3/12/2010 3:54	955063	10-1905	2	LANL	USE	S
EXS03100141.wiff	WXXCCV	LER	3/12/2010 4:09			1		USE	C



# Quantify Sample Report

GEL Laboratories, LLC / Analyst: Michael A. Penny

Printed: Tue Apr 13 11:14:26 2010, Page 31 of 77

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412016a

Date: 12-Apr-2010

Time: 23:02:57

ID: 1202047527

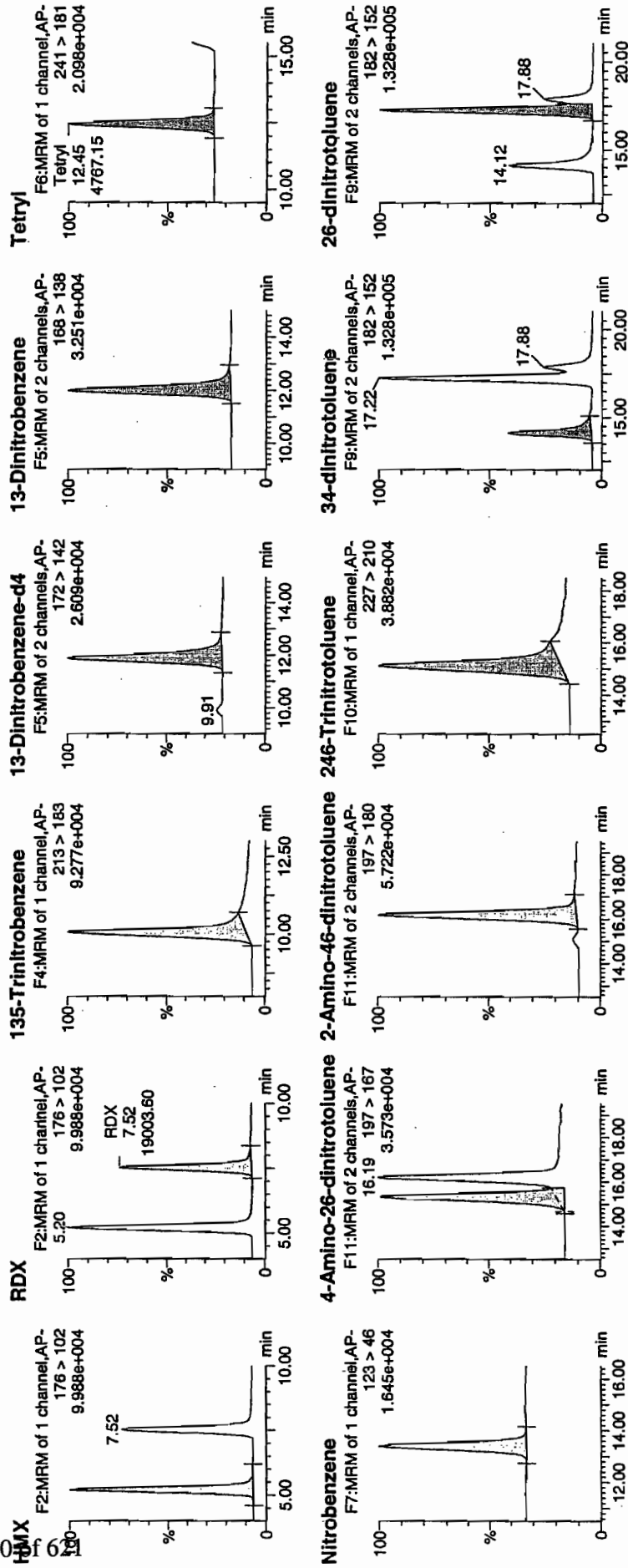
Vial: 2:1,D

12S 21

10/13/10

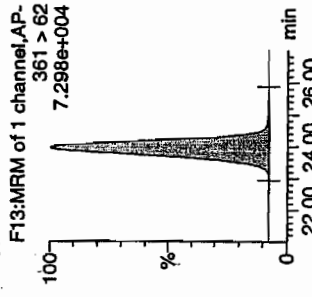
247332022US / 2-

XC: 0704120174



Handwritten signature and date 04/14/10

**PETN**

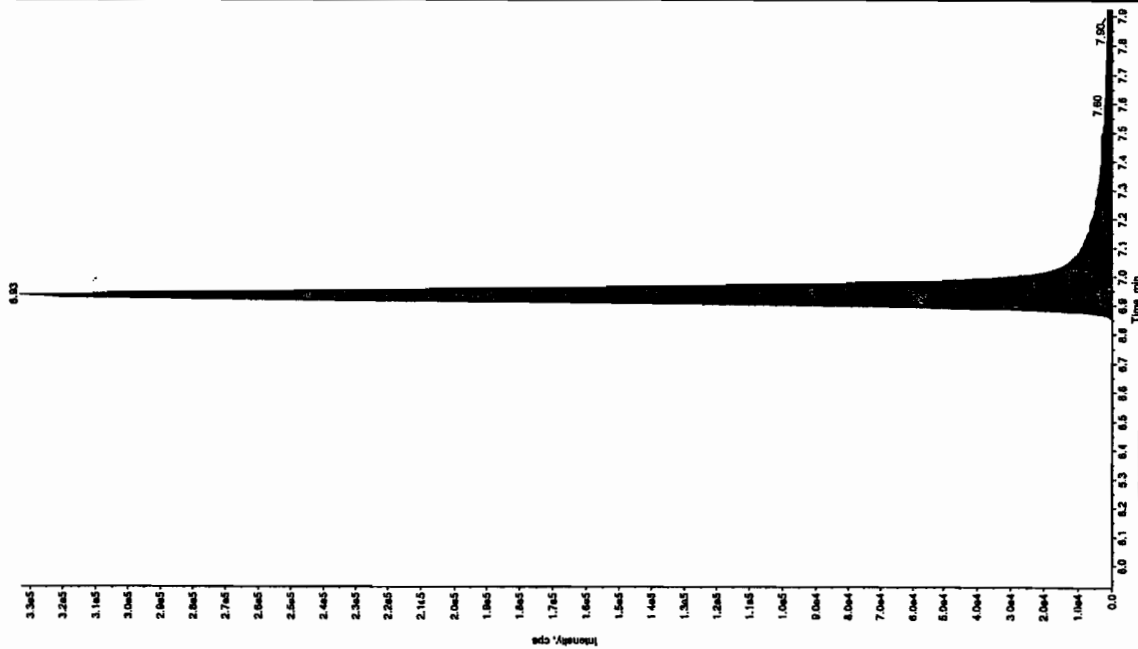


GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

See 3/14/10

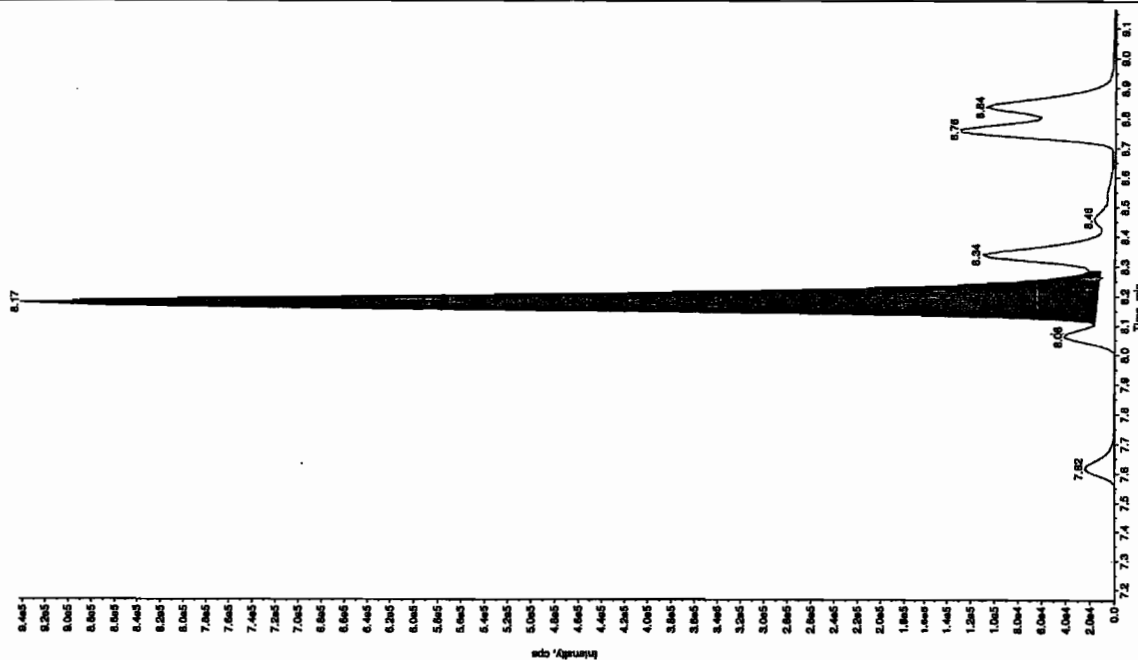
Sample Name: "1202047527" Sample ID: "9550632125" File: "EX503100134.wif"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Concentration: N/A  
Acq. Date: 3/13/2010  
Acq. Time: 2:20:00 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.93 min  
Area: 1.47e+006 counts  
Height: 333007.141 cps  
Start Time: 6.83 min  
End Time: 8.28 min



Sample Name: "1202047527" Sample ID: "9550632125" File: "EX503100134.wif"  
Peak Name: "35-Dinitroaniline" Mass(es): "182.046.0 amu"  
Comment: "LCX832125" Annotation: ""

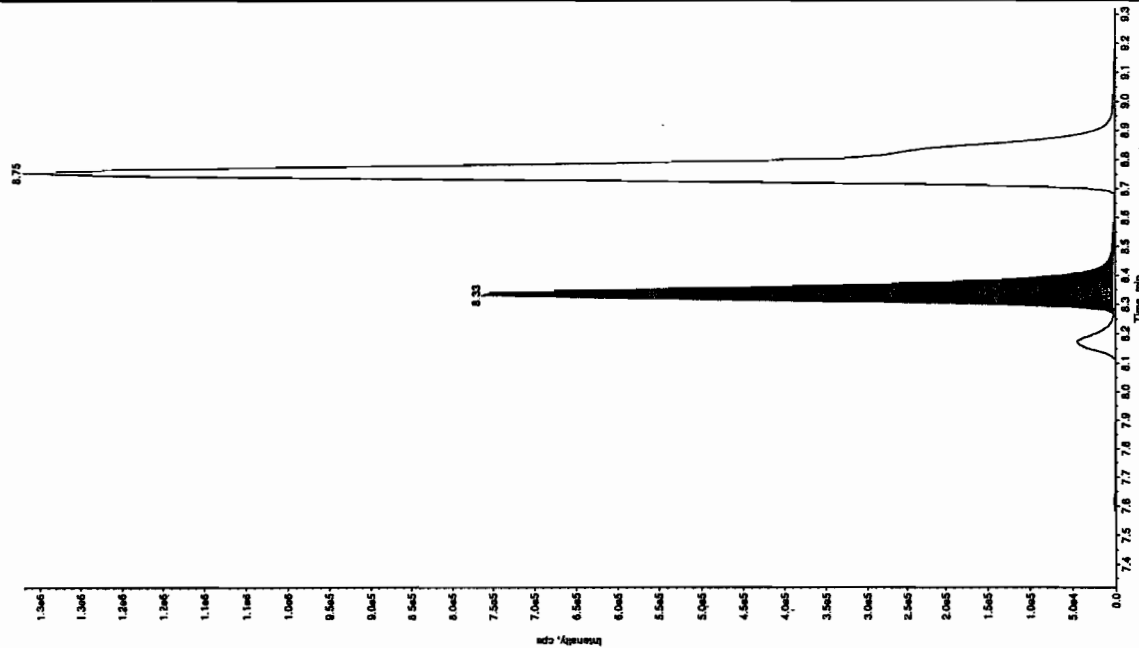
Sample Index: 1  
Concentration: N/A  
Acq. Date: 3/13/2010  
Acq. Time: 2:20:00 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IOA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.17 min  
Area: 3.61e+005 counts  
Height: 927928.035 cps  
Start Time: 8.10 min  
End Time: 8.29 min



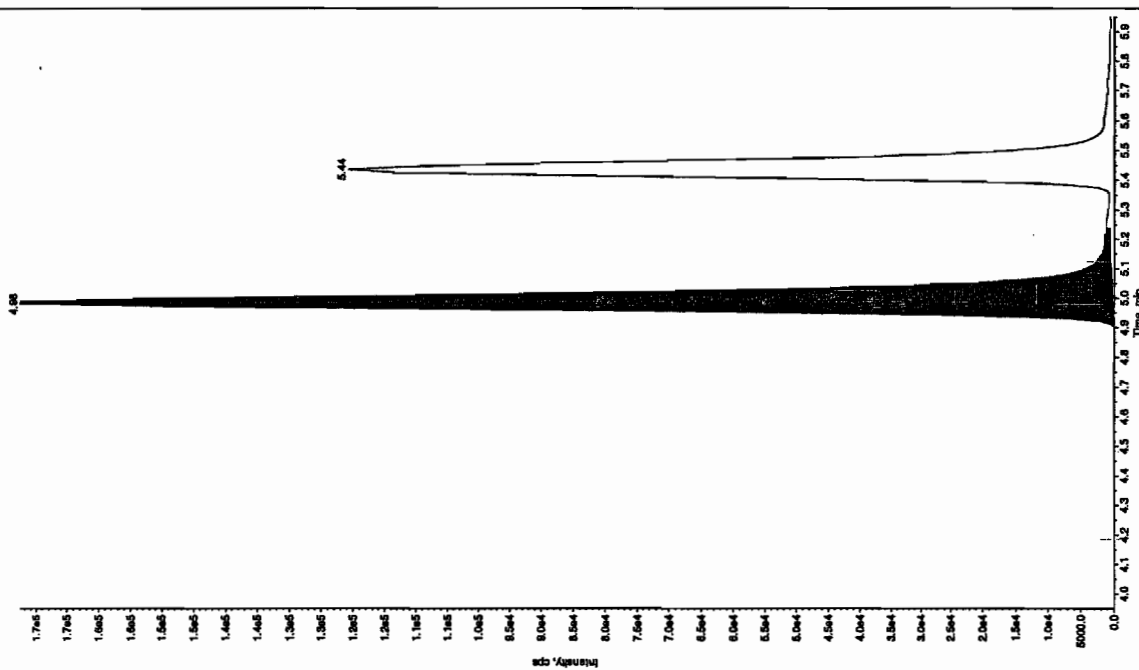


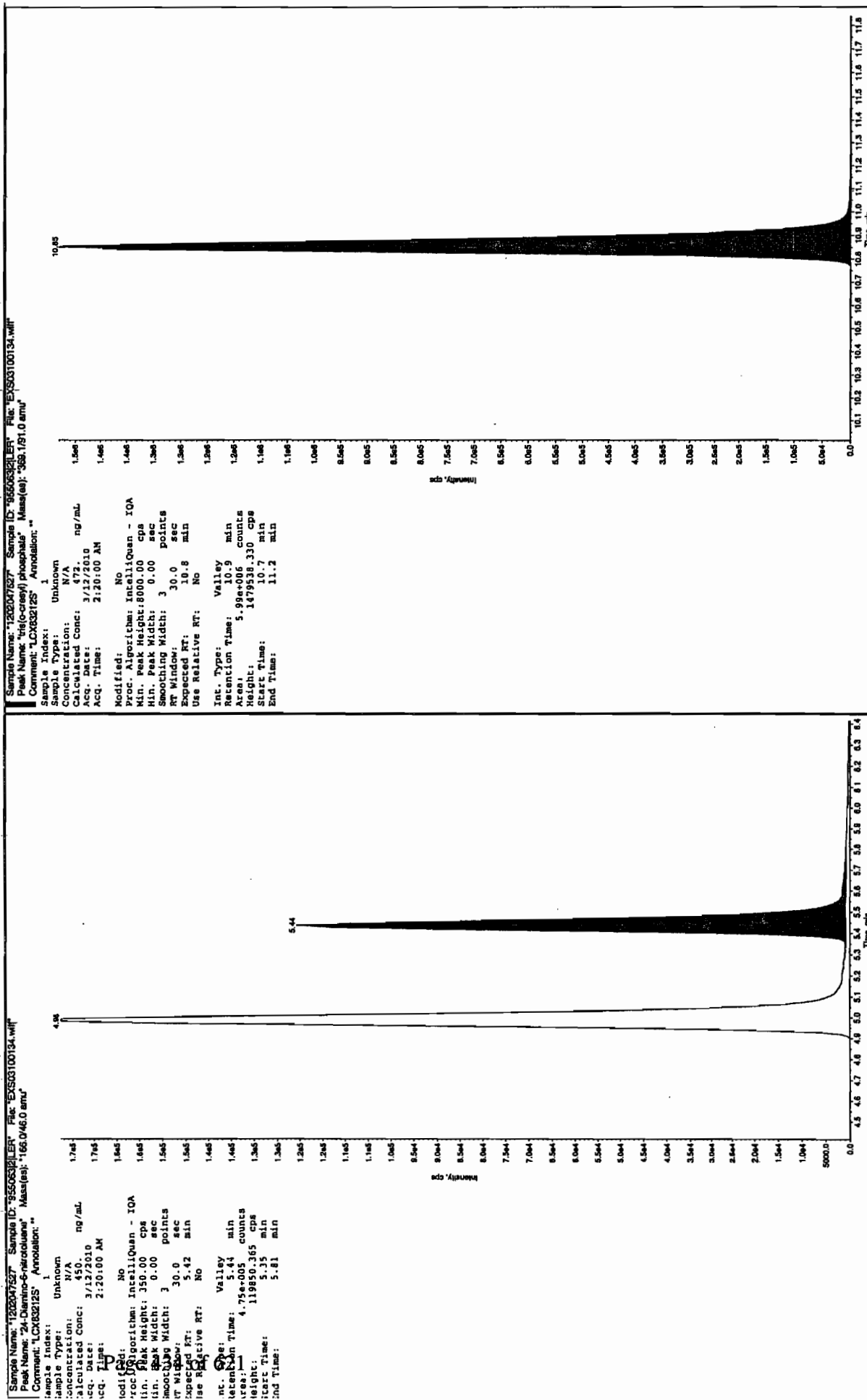
Sample Name: "1202047527" Sample ID: "9550532125" File: "EX503100134.will"  
 Peak Name: "34-Dinitrofluorene" Mass(es): "182.1715.9 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 274. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:20:00 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 1460.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 IT Window: 15.0 sec  
 Expected RT: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.76e+006 counts  
 Height: 760345 cps  
 Start Time: 8.26 min  
 End Time: 8.35 min



Sample Index: 1  
 Sample Type: Unknown  
 Concentration: 476. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:20:00 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 450.00 cps  
 Min. Peak Width: 0.00 sec  
 Smoothing Width: 3 points  
 IT Window: 30.0 sec  
 Expected RT: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.98 min  
 Area: 7.29e+005 counts  
 Height: 172514.511 cps  
 Start Time: 4.89 min  
 End Time: 5.24 min





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

Dataset: C:\MASSLYNX\New\_Exp.PRO\041210expA.qld, Time: Tue Apr 13 11:12:22 2010

Name: C:\MASSLYNX\NEW\_EXP.PRO\Data\EXP0412017a

Date: 12-Apr-2010

Time: 23:32:25

ID: 1202047528

Vol: 2:1,E

12842

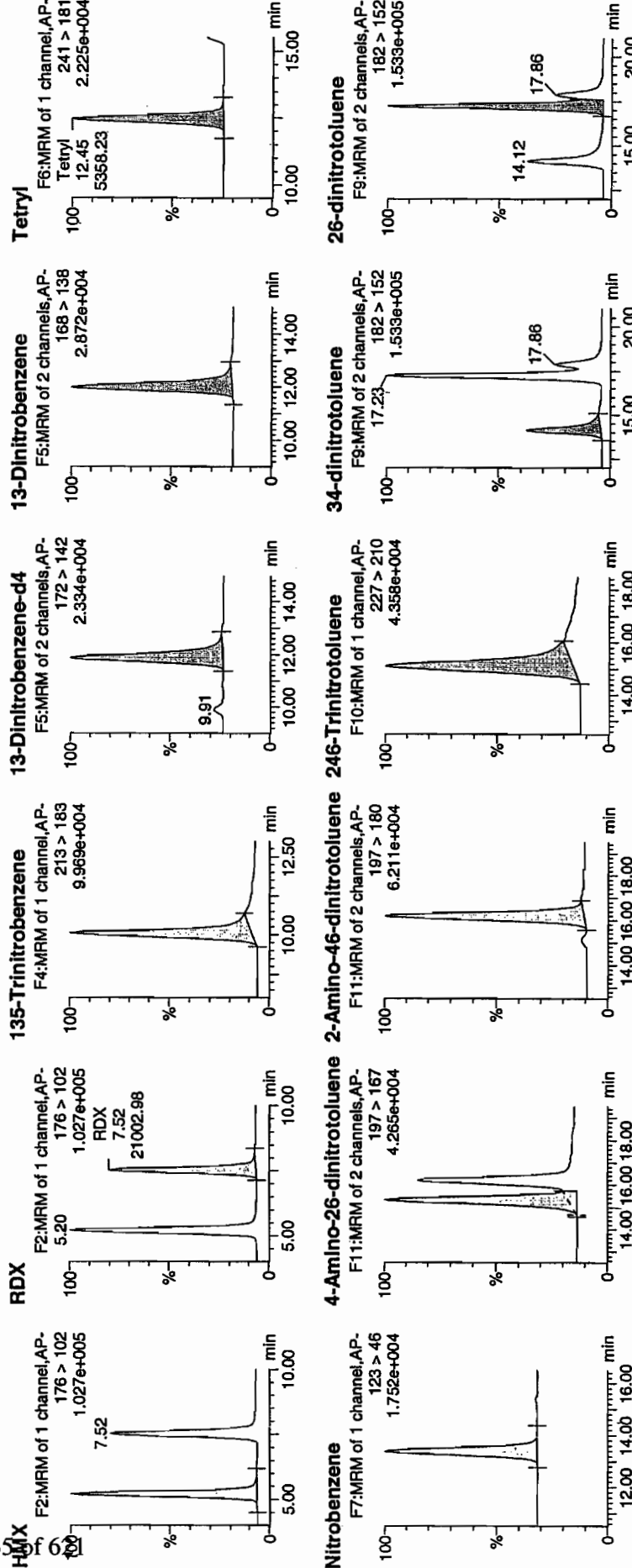
4/13/10

2/

247332002MSD

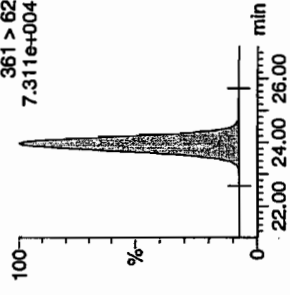
LANC/955063 / Solu

4/13/10



4/14/10

F1

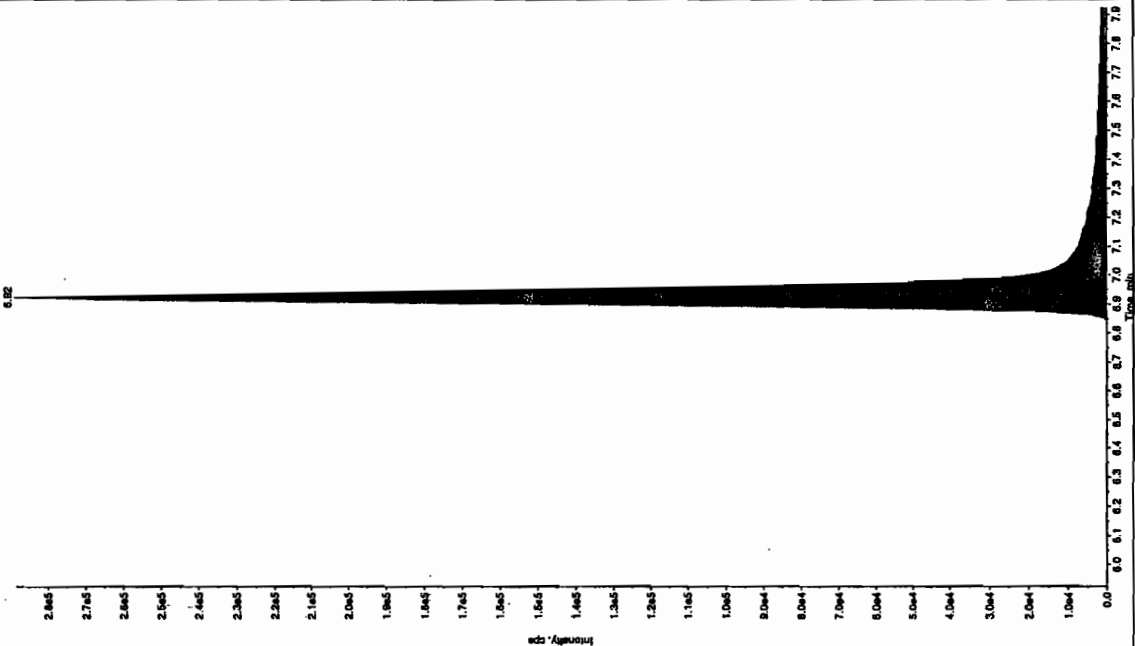


GEL SOP GL-OA-E-056, Method 8321A-Modified / MM = Manual Modification

Run 3/14/10

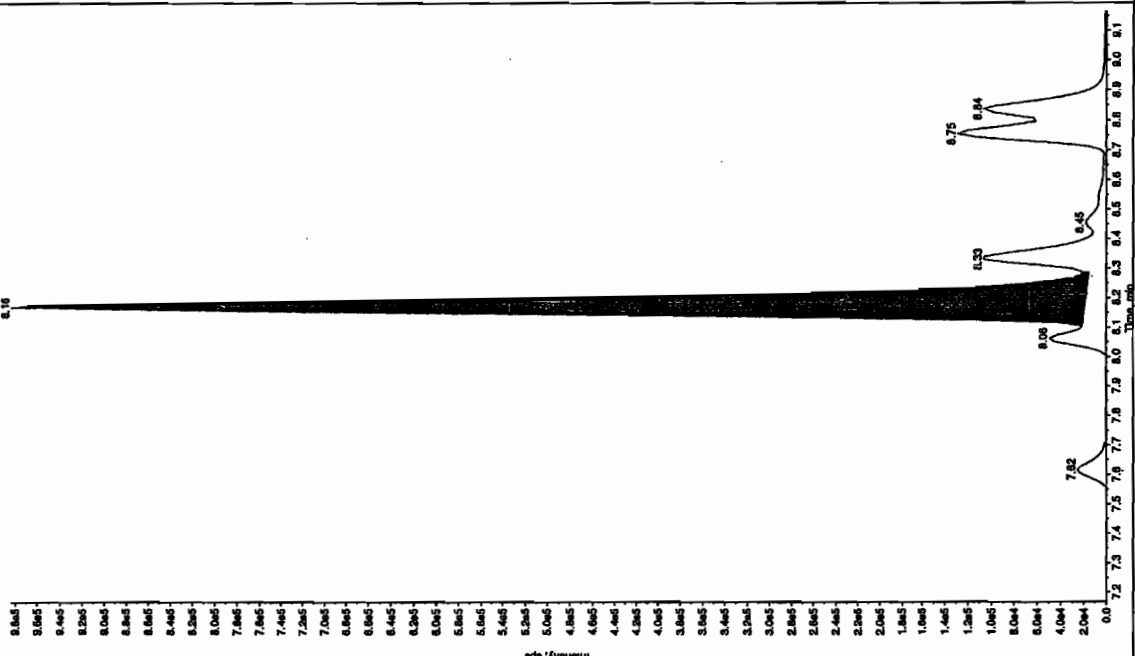
Sample Name: "1202047528" Sample ID: "9550632125" File: "EXS03100135.wif"  
Peak Name: "TATB" Mass(es): "257.2204.9 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 895. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 2:35:41 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: 6.92 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 6.92 min  
Area: 1.26e+006 counts  
Height: 1.288567e+010 cps  
Start Time: 6.81 min  
End Time: 7.93 min



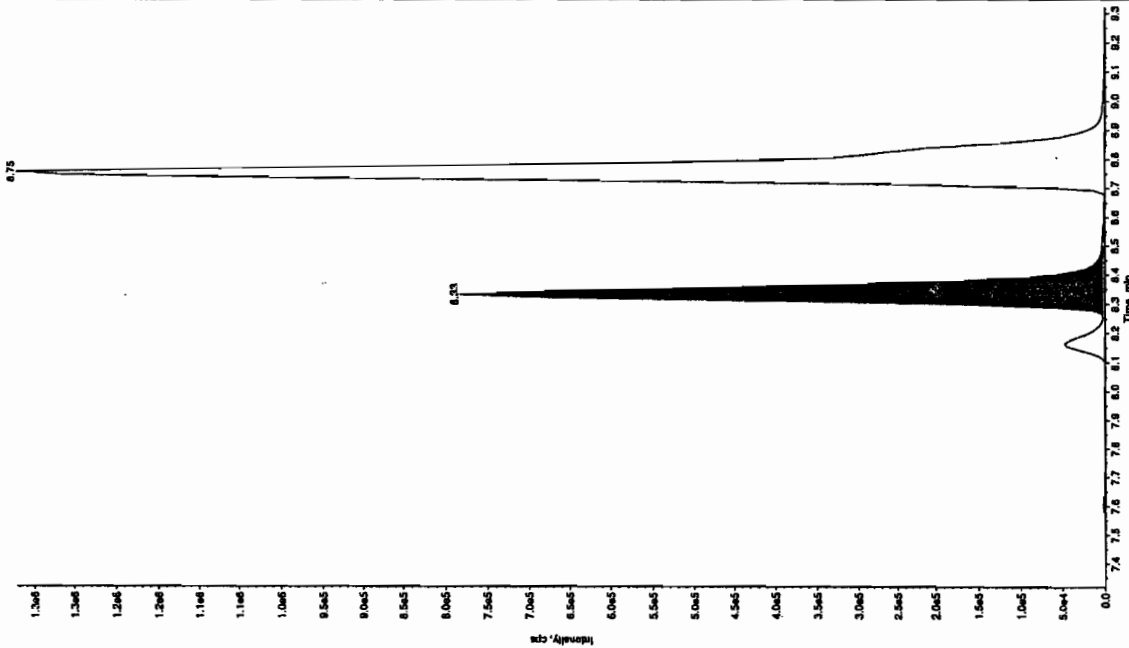
Sample Name: "1202047528" Sample ID: "9550632125" File: "EXS03100135.wif"  
Peak Name: "3S-Dinitrophenol" Mass(es): "182.046.0 amu"  
Comment: "LCX832125" Annotation: ""

Sample Index: 1  
Sample Type: Unknown  
Concentration: N/A  
Calculated Conc: 578. ng/mL  
Acq. Date: 3/12/2010  
Acq. Time: 2:35:41 AM  
Modified: No  
Proc. Algorithm: IntelliQuan - IQA  
Min. Peak Height: 2000.00 cps  
Min. Peak Width: 0.00 sec  
Smoothing Width: 3 points  
RT Window: 15.0 sec  
Expected RT: 8.16 min  
Use Relative RT: No  
Int. Type: Valley  
Retention Time: 8.16 min  
Area: 3.72e+006 counts  
Height: 964371.483 cps  
Start Time: 8.10 min  
End Time: 8.29 min



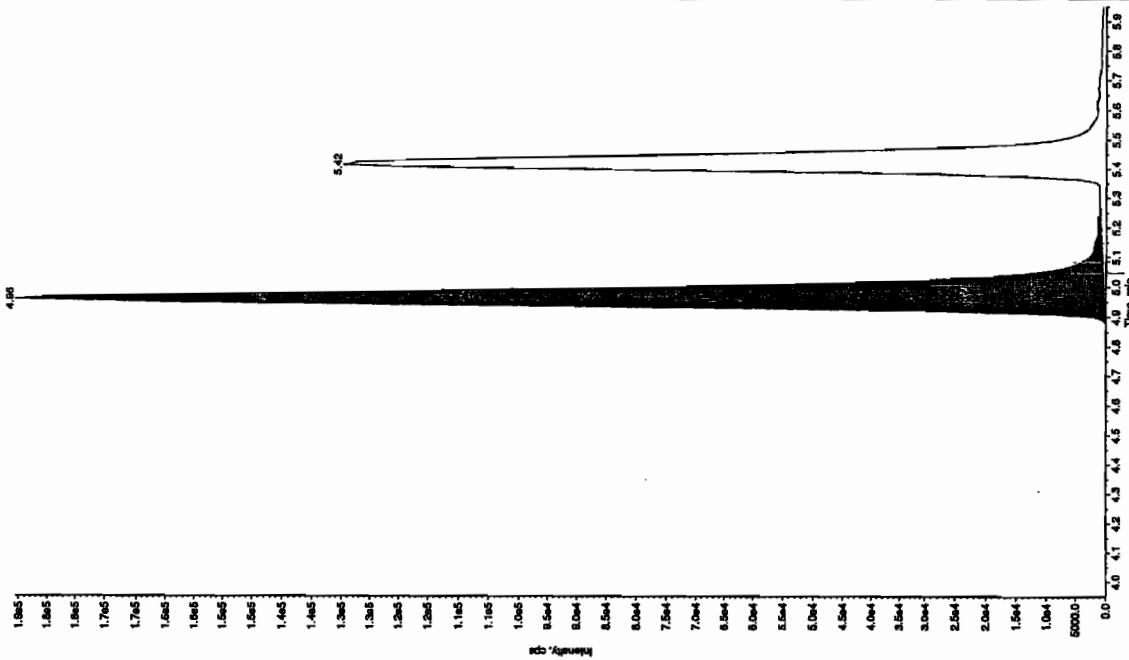
Sample Name: "1202047528" Sample ID: "95506321" File: "EX503100135.wif"  
 Peak Name: "34-Dinitrotoluene" Mass(es): "182.1/151.9 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 279. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:35:41 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: 8.32 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 8.33 min  
 Area: 2.80e+006 counts  
 Height: 780142.334 cps  
 Start Time: 8.26 min  
 End Time: 8.55 min



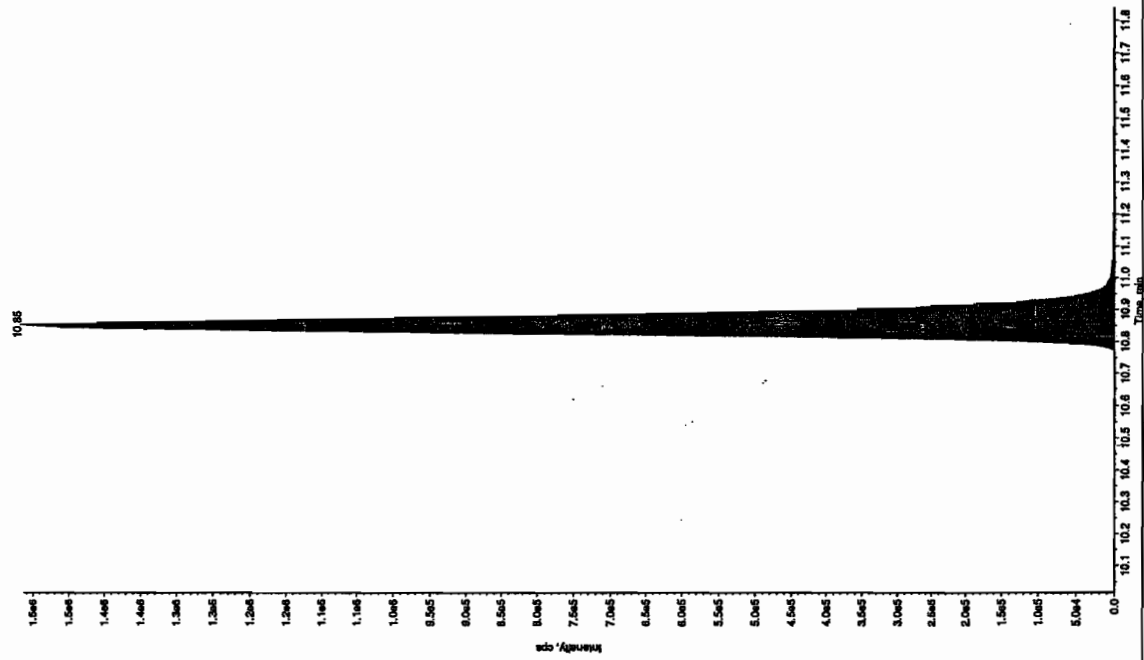
Sample Name: "1202047528" Sample ID: "95506321" File: "EX503100135.wif"  
 Peak Name: "26-Dinitro-4-nitrotoluene" Mass(es): "166.0/166.0 amu"  
 Comment: "LCX832125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 500. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:35:41 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: 4.95 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 4.96 min  
 Area: 7.65e+005 counts  
 Height: 185258.820 cps  
 Start Time: 4.87 min  
 End Time: 5.27 min



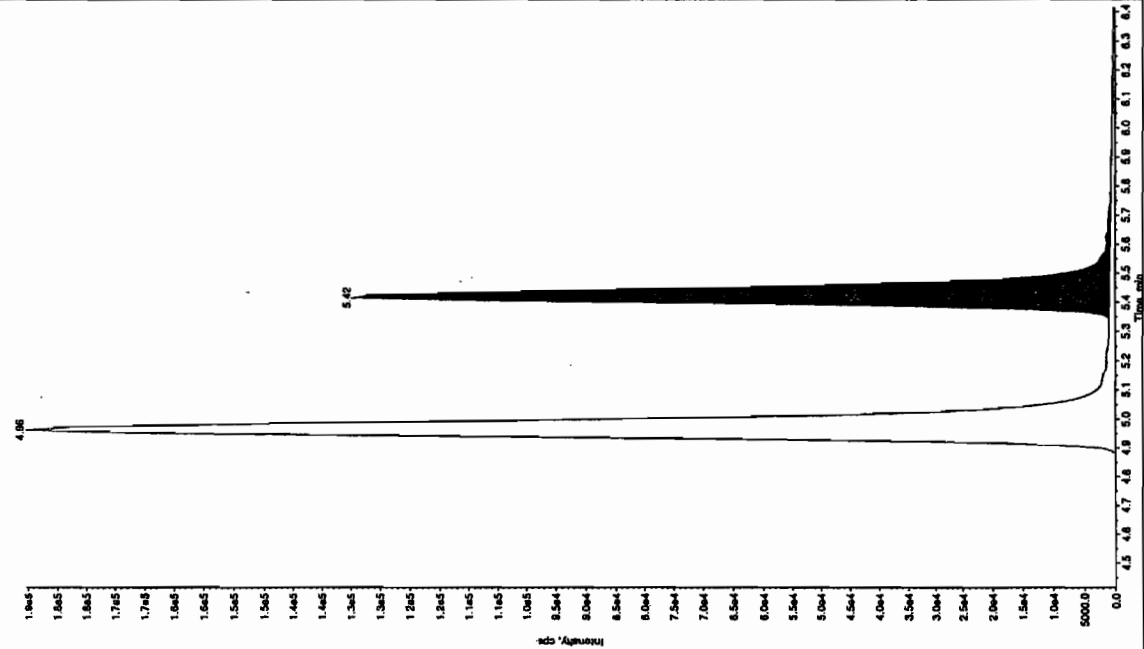
Sample Name: "120204723" Sample ID: "855032125" File: "EX503100135.wif"  
 Peak Name: "Tri(o-cresyl) phosphate" Mass(es): "358.1791.0 amu"  
 Comment: "LCX32125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 483. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:35:41 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 8000.00 cps  
 Min. Peak Width: 3.00 sec  
 Smooth Width: 3.00 points  
 RT Window: 30.0 sec  
 Expected RT: 10.8 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 10.9 min  
 Area: 6.12e+006 counts  
 Height: 1514130.615 cps  
 Start Time: 10.7 min  
 End Time: 11.1 min



Sample Name: "120204723" Sample ID: "855032125" File: "EX503100135.wif"  
 Peak Name: "Tri(o-cresyl) phosphate" Mass(es): "165.046.0 amu"  
 Comment: "LCX32125" Annotation: ""

Sample Index: 1  
 Sample Type: Unknown  
 Concentration: N/A  
 Calculated Conc: 484. ng/mL  
 Acq. Date: 3/12/2010  
 Acq. Time: 2:35:41 AM  
 Modified: No  
 Proc. Algorithm: IntelliQuan - IQA  
 Min. Peak Height: 350.00 cps  
 Min. Peak Width: 3.00 sec  
 Smooth Width: 3.00 points  
 RT Window: 30.0 sec  
 Expected RT: 5.42 min  
 Use Relative RT: No  
 Int. Type: Valley  
 Retention Time: 5.42 min  
 Area: 5.11e+005 counts  
 Height: 128635.742 cps  
 Start Time: 5.31 min  
 End Time: 5.54 min



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

### DATA EXCEPTION REPORT

<b>Mo.Day Yr.</b> 14-APR-10	<b>Division:</b> Industrial	<b>Quality Criteria:</b> Specifications	<b>Type:</b> Process
<b>Instrument Type:</b> LC-MS/MS	<b>Test / Method:</b> SW846 8321A Modified	<b>Matrix Type:</b> Solid	<b>Client Code:</b> LANL
<b>Batch ID:</b> 955063	<b>Sample Numbers:</b> See Below		
<p><b>Potentially affected work order(s)(SDG):</b> 247332(10-1905),247343(10-1908)</p> <p><b>Application Issues:</b></p> <p>Sample Analyzed out of Holding</p> <p>Other</p> <p>Failed Recovery for MSD/PSD</p> <p>Failed Recovery for LCS/LCSD</p> <p>Failed Recovery for MS/PS</p>			
<b>Specification and Requirements Exception Description:</b>		<b>DER Disposition:</b>	
<p>1. The following samples and QC were analyzed out of holding for the Primary explosives analysis: 247332002, 247332003, 247332004, 247332005, 247332006, 247332007, 247332008, 247343001, 247343002, 247343003, 247343004, 247343005, 247343006, 247343007, 247343008, 247343009, 247343010, 247343011, 1202047527(MS) and 1202047528(MSD).</p> <p>2. The LCS (1202047526) did not meet spike recovery limits for Tetryl at 20.4%. The recovery limits are 51-112%.</p> <p>3. The MS (1202047527) did not meet spike recovery limits for TATB at 206%. The recovery limits are 29-155%.</p> <p>4. The MSD (1202047528) did not meet spike recovery limits for TATB at 177%. The recovery limits are 29-155%.</p> <p>5. The internal standard responses were outside of the acceptance criteria in the following samples: 1202047527(MS) and 1202047528(MSD). Please see the Form 8 in the data package for the exact recoveries.</p>		<p>1. The analytical holding times for the samples in this batch were exceeded due to limitations of instrument capacity. However, these samples were analyzed within two times the analytical holding time of the method. The client was notified of this situation and is in agreement to receive these qualified data. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p> <p>2. Since both the MS and MSD met acceptance limits for Tetryl, the data are reported with the appropriate DER. The discrepancy is noted in the case narrative.</p> <p>3. &amp; 4. Since the LCS met acceptance limits for TATB, the noted exceptions are attributed to vagaries in the extraction process. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p> <p>5. Since similar recoveries were obtained between matrix spikes, the noted exceptions are attributed to sample matrix interference. Sample re-analysis was not required. The data are reported with the appropriate DER. The discrepancies are noted in the case narrative.</p>	

**Originator's Name:**

Michael Penny

14-APR-10

**Data Validator/Group Leader:**

Herbert Maier

14-APR-10



GC  
SEMIVOLATILE  
PCB  
ANALYSIS

**PCB Case Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-1908**

**Method/Analysis Information**

**Procedure:** Analysis of Polychlorinated Biphenyls by ECD  
**Analytical Method:** SW846 8082  
**Prep Method:** SW846 3550B  
**Analytical Batch Number:** 957590  
**Prep Batch Number:** 957587

**Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 8082:

<b>Sample ID</b>	<b>Client ID</b>
247343001	RE15-10-8208
247343002	RE15-10-8203
247343003	RE15-10-8206
247343004	RE15-10-8207
247343005	RE15-10-8204
247343006	RE15-10-8202
247343007	RE15-10-8209
247343008	RE15-10-8205
247343009	RE15-10-8227
247343010	RE15-10-8228
247343011	RE15-10-8212
1202053317	Method Blank (MB)
1202053318	Laboratory Control Sample (LCS)
1202053319	247346001(RE15-10-8246) Matrix Spike (MS)
1202053320	247346001(RE15-10-8246) 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 (#10-1911) 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.

**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:

<b>Instrument ID</b>	<b>Instrument</b>	<b>System Configuration</b>	<b>Column ID</b>	<b>Column Description</b>
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 Whittlock

Date: 3-16-2010

## Roadmap for LANL 10-1908 PCB

This roadmap was analyzed by jen01212 on 03-01-2010, 11:03.

This roadmap was reviewed by jim01140 on 03-02-2010, 07:52.

This roadmap was packaged by yml on 03-16-2010, 18:02.

Front Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/026f2601.d	247343001	sample	26-FEB-2010	11:00	10-1908.sub	RE15-10-8208	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/027f2701.d	247343002	sample	26-FEB-2010	11:13	10-1908.sub	RE15-10-8203	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/028f2801.d	247343003	sample	26-FEB-2010	11:25	10-1908.sub	RE15-10-8206	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/029f2901.d	247343004	sample	26-FEB-2010	11:37	10-1908.sub	RE15-10-8207	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/030f3001.d	247343005	sample	26-FEB-2010	11:50	10-1908.sub	RE15-10-8204	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/031f3101.d	247343006	sample	26-FEB-2010	12:02	10-1908.sub	RE15-10-8202	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/034f3401.d	247343007	sample	26-FEB-2010	12:39	10-1908.sub	RE15-10-8209	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/035f3501.d	247343008	sample	26-FEB-2010	12:52	10-1908.sub	RE15-10-8205	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/036f3601.d	247343009	sample	26-FEB-2010	13:04	10-1908.sub	RE15-10-8227	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/037f3701.d	247343010	sample	26-FEB-2010	13:16	10-1908.sub	RE15-10-8228	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/038f3801.d	247343011	sample	26-FEB-2010	13:29	10-1908.sub	RE15-10-8212	1.00000	957590	UPLOAD BOTH, USE HIGHER

Back Sample Column

exclude	manual	datafile	smplid	sampletype	injdte	injtme	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/026f2601.d	247343001	sample	26-FEB-2010	11:00	10-1908.sub	RE15-10-8208	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/027f2701.d	247343002	sample	26-FEB-2010	11:13	10-1908.sub	RE15-10-8203	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/028f2801.d	247343003	sample	26-FEB-2010	11:25	10-1908.sub	RE15-10-8206	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/029f2901.d	247343004	sample	26-FEB-2010	11:37	10-1908.sub	RE15-10-8207	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/030f3001.d	247343005	sample	26-FEB-2010	11:50	10-1908.sub	RE15-10-8204	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/031f3101.d	247343006	sample	26-FEB-2010	12:02	10-1908.sub	RE15-10-8202	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/034f3401.d	247343007	sample	26-FEB-2010	12:39	10-1908.sub	RE15-10-8209	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/035f3501.d	247343008	sample	26-FEB-2010	12:52	10-1908.sub	RE15-10-8205	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/036f3601.d	247343009	sample	26-FEB-2010	13:04	10-1908.sub	RE15-10-8227	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/037f3701.d	247343010	sample	26-FEB-2010	13:16	10-1908.sub	RE15-10-8228	1.00000	957590	UPLOAD BOTH, USE HIGHER

<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/038b3801.d	247343011	sample	26-FEB-2010	13:29	10-1908.sub	RE15-10-8212	1.00000	957590	UPLOAD BOTH, USE HIGHER
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Front QC Sample Column

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	prepbatchid	comment
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/024f2401.d	1202053317	mb	26-FEB-2010	10:36	10-1908.sub	PBLK01	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/025f2501.d	1202053318	lcs	26-FEB-2010	10:48	10-1908.sub	PBLK01LCS	1.00000	957590	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/022610.b/024b2401.d	1202053317	mb	26-FEB-2010	10:36	10-1908.sub	PBLK01	1.00000	957590	UPLOAD BOTH, USE HIGHER
<input type="checkbox"/>	N	/chem/ecd8a.i/022610.b/025b2501.d	1202053318	lcs	26-FEB-2010	10:48	10-1908.sub	PBLK01LCS	1.00000	957590	UPLOAD BOTH, USE HIGHER



# SAMPLE DATA SUMMARY

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

Page 1 of 1

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343006

**Date Collected:** 02/12/2010 12:00  
**Date Received:** 02/18/2010 08:45  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD8A.I  
**Analyst:** JAOC  
**Aliquot:** 30.09 g  
**Column:** 1 CLP1  
2 CLP2

**Matrix:** R  
**%Moisture:** 2  
**Project:** LANL01004  
**SOP Ref:** GL-OA-E-040  
**Dilution:** 1  
**Inj. Vol:** 1 uL  
**Final Volume:** 1 mL  
**Level:** LOW

**Client ID:** RE15-10-8202  
**Batch ID:** 957590  
**Run Date:** 02/26/2010 12:02  
**Prep Date:** 02/25/2010 21:15  
**Data File:** 031f3101.d  
031b3101.d

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:** 10-1908  
**Lab Sample ID:** 247343002

**Date Collected:** 02/12/2010 12:00

**Matrix:** R

**Date Received:** 02/18/2010 08:45

**%Moisture:** 1.1

**Client:** LANL010

**Project:** LANL01004

**Method:** SW846 8082

**SOP Ref:** GL-OA-E-040

**Inst:** ECD8A.I

**Dilution:** 1

**Analyst:** JAOC

**Inj. Vol:** 1 uL

**Aliquot:** 30.15 g

**Final Volume:** 1 mL

**Column:** 1 CLP1

**Level:** LOW

**Data File:** 027f2701.d

2 CLP2

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.35	ug/kg	1.12	3.35	1
11104-28-2	Aroclor-1221	U	3.35	ug/kg	1.12	3.35	1
11141-16-5	Aroclor-1232	U	3.35	ug/kg	1.12	3.35	1
53469-21-9	Aroclor-1242	U	3.35	ug/kg	1.12	3.35	1
12672-29-6	Aroclor-1248	U	3.35	ug/kg	1.12	3.35	1
11097-69-1	Aroclor-1254	U	3.35	ug/kg	1.12	3.35	1
11096-82-5	Aroclor-1260	U	3.35	ug/kg	1.12	3.35	1

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343005

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOB  
Aliquot: 30.09 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
% Moisture: 1.8  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8204  
Batch ID: 957590  
Run Date: 02/26/2010 11:50  
Prep Date: 02/25/2010 21:15  
Data File: 030f3001.d  
030b3001.d

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**

Page 1 of 1

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343008

**Date Collected:** 02/12/2010 12:00

**Matrix:** R

**Date Received:** 02/18/2010 08:45

**%Moisture:** 1.7

**Client:** LANL010

**Project:** LANL01004

**Method:** SW846 8082

**SOP Ref:** GL-OA-E-040

**Inst:** ECD8A.I

**Dilution:** 1

**Analyst:** JAOC

**Inj. Vol:** 1 uL

**Aliquot:** 30.07 g

**Final Volume:** 1 mL

**Column:** 1 CLP1

**Level:** LOW

**Data File:** 035f3501.d

2 CLP2

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: 10-1908  
Lab Sample ID: 247343003

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.01 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: RE15-10-8206  
Batch ID: 957590  
Run Date: 02/26/2010 11:25  
Prep Date: 02/25/2010 21:15  
Data File: 028f2801.d  
028b2801.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: 10-1908  
Lab Sample ID: 247343004

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.19 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 2.4  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8207  
Batch ID: 957590  
Run Date: 02/26/2010 11:37  
Prep Date: 02/25/2010 21:15  
Data File: 029f2901.d  
029b2901.d

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: 10-1908  
Lab Sample ID: 247343001

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.03 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 3.1  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8208  
Batch ID: 957590  
Run Date: 02/26/2010 11:00  
Prep Date: 02/25/2010 21:15  
Data File: 026f2601.d  
026b2601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.44	ug/kg	1.14	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.14	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.14	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.14	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.14	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.14	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.14	3.44	1



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343007

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.14 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	3.38	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**

Page 1 of 1

SDG Number: 10-1908  
 Lab Sample ID: 247343011

Date Collected: 02/12/2010 12:00  
 Date Received: 02/18/2010 08:45  
 Client: LANL010  
 Method: SW846 8082  
 Inst: ECD8A.I  
 Analyst: JAOC  
 Aliquot: 30.19 g  
 Column: 1 CLP1  
 2 CLP2

Matrix: R  
 %Moisture: 1.5  
 Project: LANL01004  
 SOP Ref: GL-OA-E-040  
 Dilution: 1  
 Inj. Vol: 1 uL  
 Final Volume: 1 mL  
 Level: LOW

Client ID: RE15-10-8212  
 Batch ID: 957590  
 Run Date: 02/26/2010 13:29  
 Prep Date: 02/25/2010 21:15  
 Data File: 038f3801.d  
 038b3801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343009

**Date Collected:** 02/12/2010 12:00  
**Date Received:** 02/18/2010 08:45  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD8A.I  
**Analyst:** JAOC  
**Aliquot:** 30.02 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:** RE15-10-8227  
**Batch ID:** 957590  
**Run Date:** 02/26/2010 13:04  
**Prep Date:** 02/25/2010 21:15  
**Data File:** 036f3601.d  
036b3601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.13	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.13	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.13	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.13	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.13	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.13	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.13	3.41	1

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343010

**Date Collected:** 02/12/2010 12:00  
**Date Received:** 02/18/2010 08:45  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD8A.I  
**Analyst:** JAOC  
**Aliquot:** 30.01 g  
**Column:** 1 CLP1  
 2 CLP2

**Matrix:** R  
**%Moisture:** 1.6  
**Project:** LANL01004  
**SOP Ref:** GL-OA-E-040  
**Dilution:** 1  
**Inj. Vol:** 1 uL  
**Final Volume:** 1 mL  
**Level:** LOW

**Client ID:** RE15-10-8228  
**Batch ID:** 957590  
**Run Date:** 02/26/2010 13:16  
**Prep Date:** 02/25/2010 21:15  
**Data File:** 037f3701.d  
 037b3701.d

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

# QUALITY CONTROL SUMMARY

PCB  
Surrogate Recovery Report

Page 1 of 1

SDG Number: 10-1908

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 #
1202053317	MB for batch 957587	87	92	86	92
1202053318	LCS for batch 957587	78	85	84	88
247343001	RE15-10-8208	80	84	76	81
247343002	RE15-10-8203	82	86	78	83
247343003	RE15-10-8206	79	84	78	84
247343004	RE15-10-8207	80	84	71	76
247343005	RE15-10-8204	81	87	78	84
247343006	RE15-10-8202	73	78	68	74
247343007	RE15-10-8209	73	76	68	73
247343008	RE15-10-8205	78	83	76	82
247343009	RE15-10-8227	86	93	80	86
247343010	RE15-10-8228	68	73	63	67
247343011	RE15-10-8212	70	73	78	83

**Surrogate**

4CMX = 4cmx

DCB = Decachlorobiphenyl

**Acceptance Limits**

(32%-120%)

(30%-116%)

\* Recovery outside Acceptance Limits

# Column to be used to flag recovery values

D Sample Diluted

---

PCB  
Quality Control Summary  
Spike Recovery Report

Page 1 of 1

SDG Number: 10-1908

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 957587

Matrix: SOIL

Lab Sample ID:1202053318

Instrument: ECD8A.I

Analysis Date: 02/26/2010 10:48

Dilution: 1

Analyst: JAOC

Prep Batch ID: 957587

Inj. Vol: 1 uL

Batch ID: 957590

---

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	26.4	79	39-102
11096-82-5	LCS Aroclor-1260	33.3	0.0	31.8	95	45-118

---

PCB

Page 1 of 2

**Quality Control Summary  
Spike Recovery Report**

SDG Number: 10-1911

Sample Type: Matrix Spike

Client ID: RE15-10-8246MS

Matrix: R

Lab Sample ID:1202053319

%Moisture: 1.6

Instrument: ECD8A.I

Analysis Date: 02/26/2010 13:53

Dilution: 1

Analyst: JAO

Prep Batch ID: 957587

Inj. Vol: 1 uL

Batch ID: 957590

CAS No	Parmname	Amount Added ug/kg	Sample Conc. ug/kg	Spike Conc. ug/kg	Recovery %	Acceptance Limits
12674-11-2	MS Aroclor-1016	33.7	0.00 U	27.4	81	23-119
11096-82-5	MS Aroclor-1260	33.7	0.00 U	31.7	94	28-124



PCB

Page 2 of 2

Quality Control Summary  
Spike Recovery Report

SDG Number: 10-1911

Sample Type: Matrix Spike Duplicate

Client ID: RE15-10-8246MSD

Matrix: R

Lab Sample ID:1202053320

%Moisture: 1.6

Instrument: ECD8A.I

Analysis Date: 02/26/2010 14:06

Dilution: 1

Analyst: JAOC

Pre Batch ID 957587

Inj. Vol: 1 uL

Batch ID: 957590

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	33.7	0.00 U	26.4	78	23-119	4	0-28
11096-82-5	MSD Aroclor-1260	33.7	0.00 U	31.2	93	28-124	2	0-30

## Method Blank Summary

Page 1 of 1

SDG Number:	10-1908	Client:	LANL010	Matrix:	SOIL
Client ID:	MB for batch 957587	Instrument ID:	ECD8AJ_2	Data File:	024b2401-1.d
Lab Sample ID:	1202053317		ECD8AJ_1		024f2401-1.d
Column:	CLP2	Prep Date:	02/25/2010 21:15	Analyzed:	02/26/10 10:36
	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 957587	1202053318	025f2501-1.d 025b2501-1.d	02/26/10	1048
02 RE15-10-8208	247343001	026f2601.d 026b2601.d	02/26/10	1100
03 RE15-10-8203	247343002	027f2701.d 027b2701.d	02/26/10	1113
04 RE15-10-8206	247343003	028f2801.d 028b2801.d	02/26/10	1125
05 RE15-10-8207	247343004	029f2901.d 029b2901.d	02/26/10	1137
06 RE15-10-8204	247343005	030f3001.d 030b3001.d	02/26/10	1150
07 RE15-10-8202	247343006	031f3101.d 031b3101.d	02/26/10	1202
08 RE15-10-8209	247343007	034f3401.d 034b3401.d	02/26/10	1239
09 RE15-10-8205	247343008	035f3501.d 035b3501.d	02/26/10	1252
10 RE15-10-8227	247343009	036f3601.d 036b3601.d	02/26/10	1304
11 RE15-10-8228	247343010	037f3701.d 037b3701.d	02/26/10	1316
12 RE15-10-8212	247343011	038f3801.d 038b3801.d	02/26/10	1329

# SAMPLE DATA

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

Page 1 of 1

SDG Number: 10-1908  
Lab Sample ID: 247343006

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.09 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 2  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8202  
Batch ID: 957590  
Run Date: 02/26/2010 12:02  
Prep Date: 02/25/2010 21:15  
Data File: 031f3101.d  
031b3101.d

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/022610.b/031f3101.d  
Report Date: 26-Feb-2010 12:27

Page 1

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RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/031f3101.d  
Lab Smp Id: 247343006 Client Smp ID: RE15-10-8202  
Inj Date : 26-FEB-2010 12:02  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343006|1|  
Misc Info : |ECD82P\_ls|957590|SVA|LANL|SOIL|RE15-10-8202|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 31  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

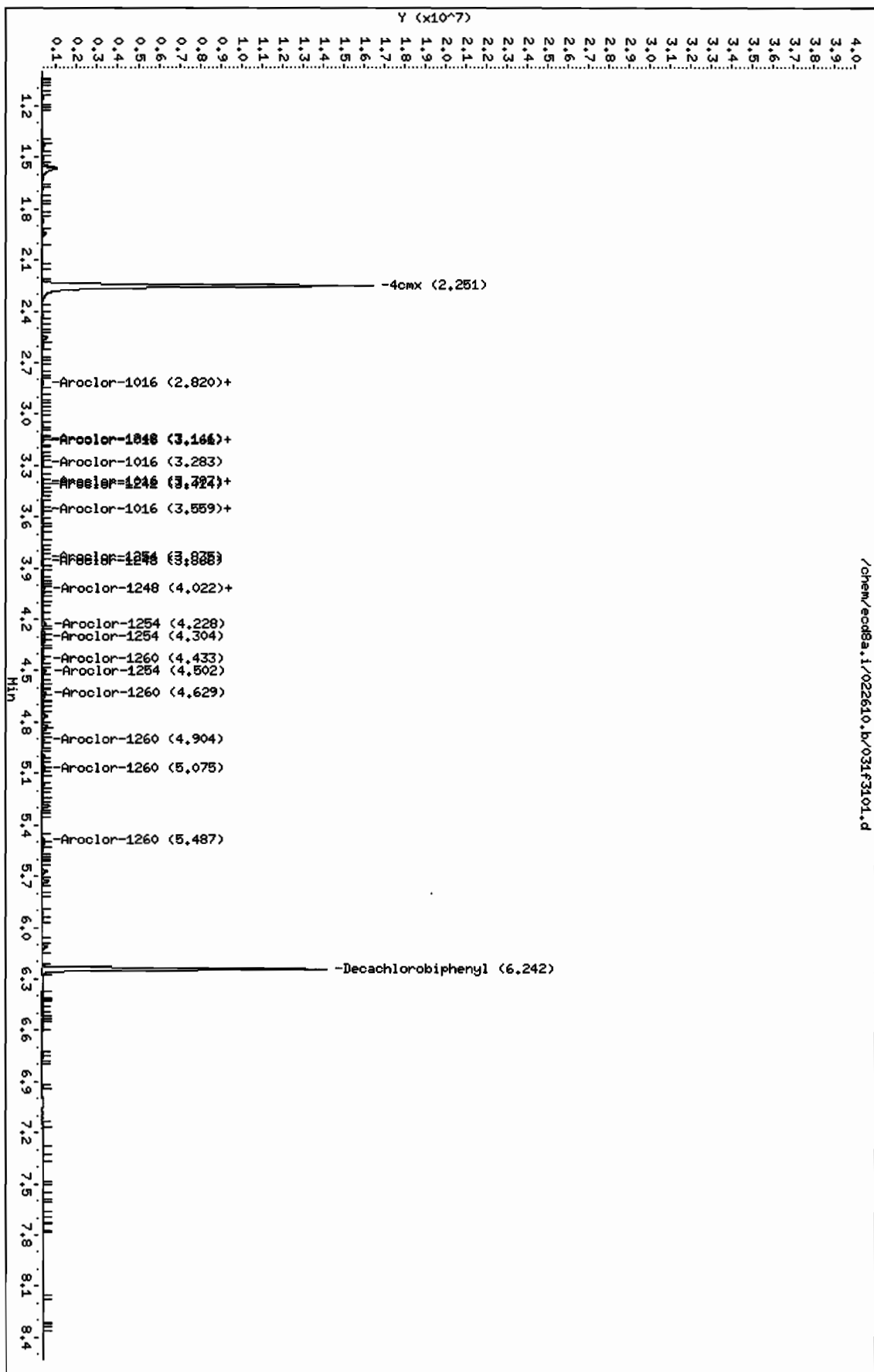
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	2.04440	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE ( ug/L)	(ug/Kg)	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.251	2.251	0.000	18447934 146.401	5.0	80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.242	6.245	-0.003	12202199 135.102	4.6	80.00- 120.00	100.00
-----						

Data File: /chem/eod8a.i/022610.b/031f3101.d  
Date : 26-FEB-2010 12:02  
Client ID: REL5-10-8202  
Sample Info: 1247343006111  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: eod8a.i  
Operator: JHOC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/031b3101.d  
Report Date: 26-Feb-2010 12:17

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/031b3101.d

Lab Smp Id: 247343006

Client Smp ID: RE15-10-8202

Inj Date : 26-FEB-2010 12:02

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247343006|1|

Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8202|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 3l

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1908.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	2.04440	% Moisture

Cpnd Variable

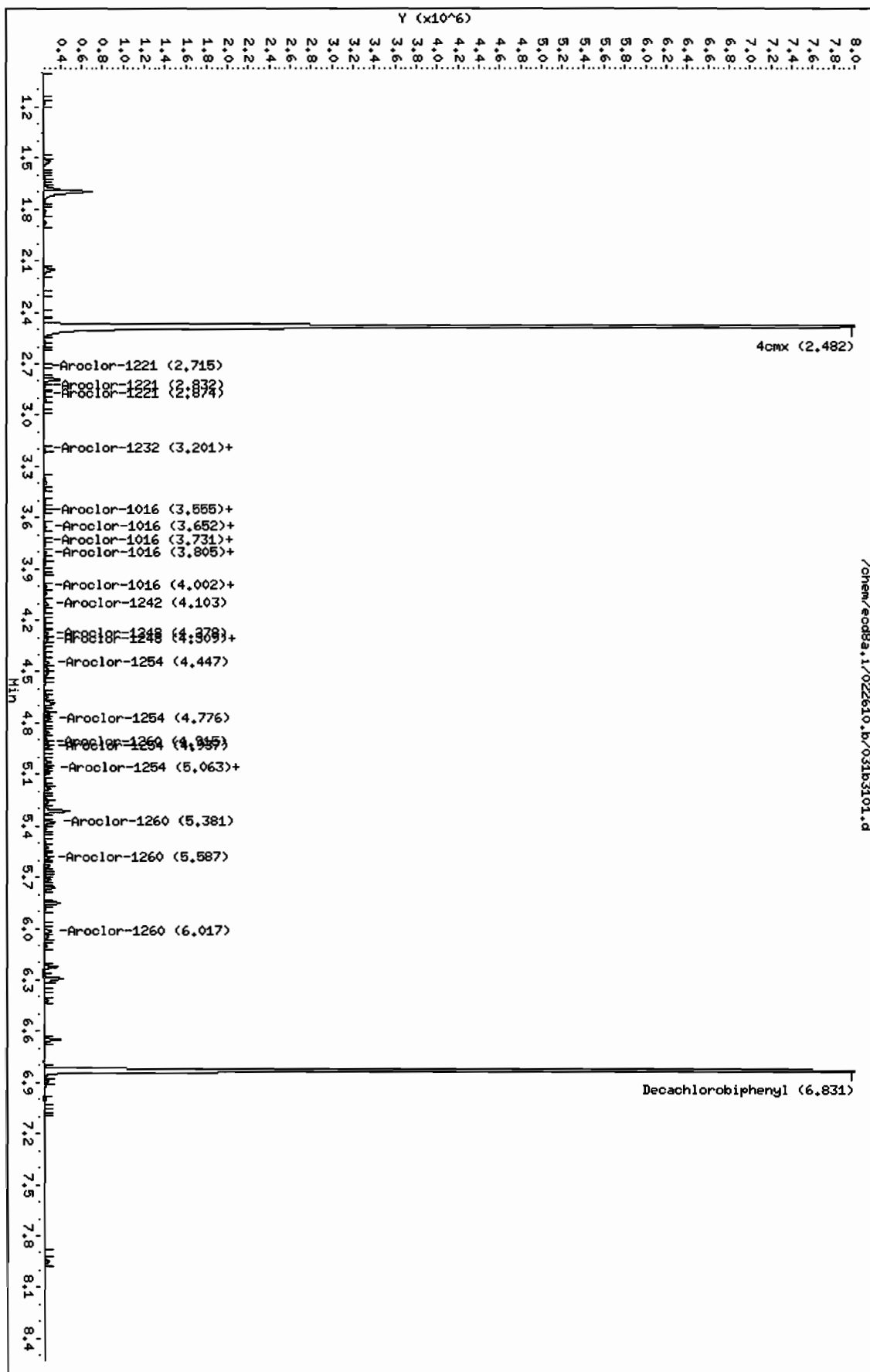
Local Compound Variable

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	12788340	155.057	5.3 80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3	
6.831	6.832	-0.001	9144667	148.362	5.0 80.00- 120.00	100.00
-----						

Data File: /chem/ecodba.i/022610.b/031b3101.d  
 Date: 26-FEB-2010 12:02  
 Client ID: RE15-10-8202  
 Sample Info: 124734300611  
 Volume Injected (uL): 1.0  
 Column phase: QLP2

Instrument: ecodba.i  
 Operator: JROC  
 Column diameter: 0.25

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**PCB**  
**Certificate of Analysis**  
**Sample Summary**

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343002

**Date Collected:** 02/12/2010 12:00  
**Date Received:** 02/18/2010 08:45  
**Client:** LANL010  
**Method:** SW846 8082  
**Inst:** ECD8A.I  
**Analyst:** JAOC  
**Aliquot:** 30.15 g  
**Column:** 1 CLP1  
 2 CLP2

**Matrix:** R  
**% Moisture:** 1.1  
**Project:** LANL01004  
**SOP Ref:** GL-OA-E-040  
**Dilution:** 1  
**Inj. Vol:** 1 uL  
**Final Volume:** 1 mL  
**Level:** LOW

**Client ID:** RE15-10-8203  
**Batch ID:** 957590  
**Run Date:** 02/26/2010 11:13  
**Prep Date:** 02/25/2010 21:15  
**Data File:** 027f2701.d  
 027b2701.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.35	ug/kg	1.12	3.35	1
11104-28-2	Aroclor-1221	U	3.35	ug/kg	1.12	3.35	1
11141-16-5	Aroclor-1232	U	3.35	ug/kg	1.12	3.35	1
53469-21-9	Aroclor-1242	U	3.35	ug/kg	1.12	3.35	1
12672-29-6	Aroclor-1248	U	3.35	ug/kg	1.12	3.35	1
11097-69-1	Aroclor-1254	U	3.35	ug/kg	1.12	3.35	1
11096-82-5	Aroclor-1260	U	3.35	ug/kg	1.12	3.35	1

Data File: /chem/ecd8a.i/022610.b/027f2701.d  
Report Date: 26-Feb-2010 12:26

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/027f2701.d  
Lab Smp Id: 247343002 Client Smp ID: RE15-10-8203  
Inj Date : 26-FEB-2010 11:13  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343002|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8203|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 27  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	30.15000	Weight of sample extracted (g)
M	1.12040	% Moisture

Cpnd Variable Local Compound Variable

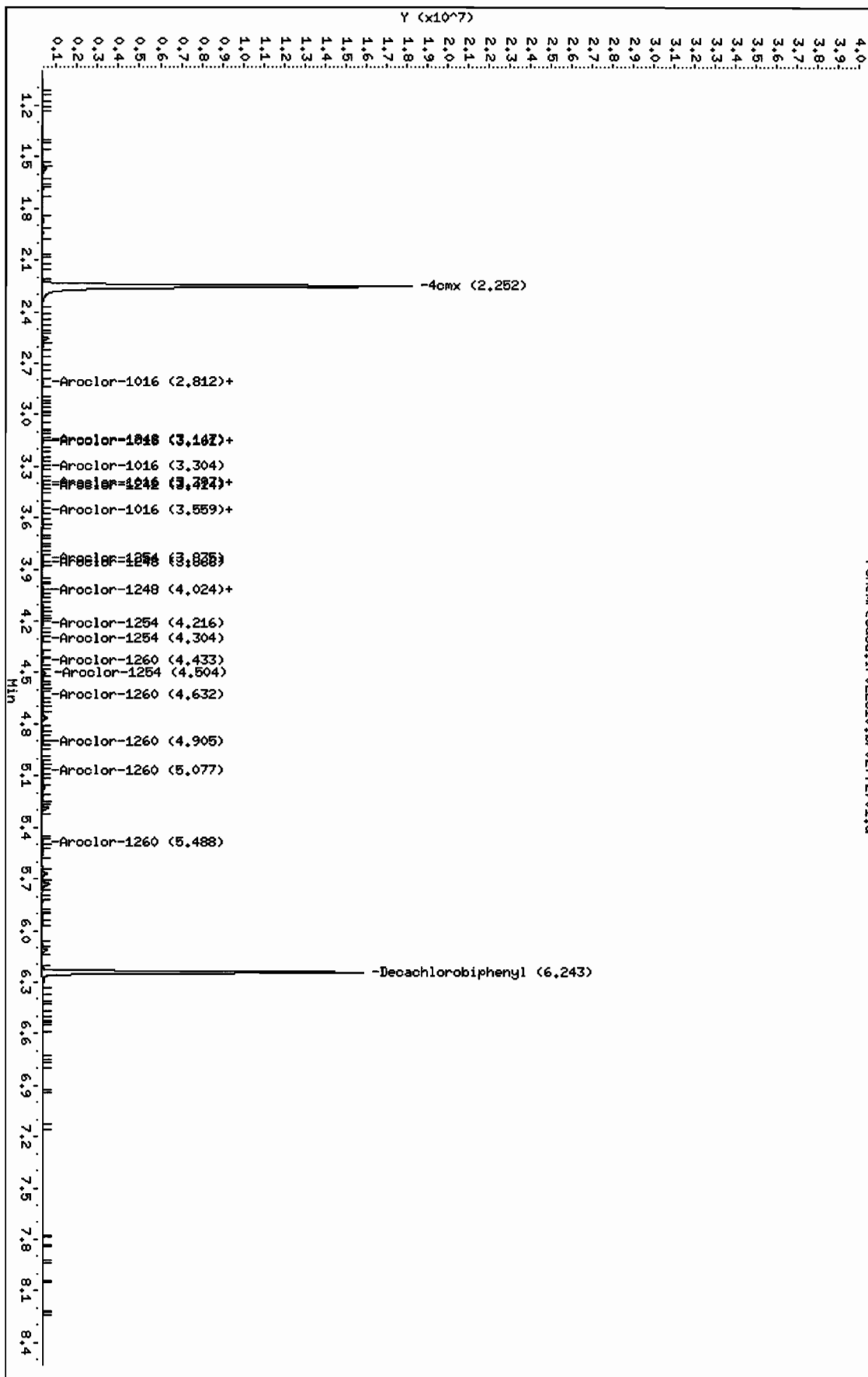
CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE ( ug/L)	(ug/Kg)	=====	=====
CAS #: 877-09-8						
2.252	2.251	0.001	20659819	163.955	5.5 80.00- 120.00	100.00
CAS #: 2051-24-3						
6.243	6.245	-0.002	14175067	156.946	5.3 80.00- 120.00	100.00

Data File: /chem/eod8a.i/022610.b/0272701.d  
 Date: 26-FEB-2010 11:13  
 Client ID: RELS-10-8203  
 Sample Info: 124734300211  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: eod8a.i  
 Operator: JHOC  
 Column diameter: 0.25

/chem/eod8a.i/022610.b/0272701.d



Data File: /chem/ecd8a.i/022610.b/027b2701.d  
Report Date: 26-Feb-2010 12:26

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/027b2701.d  
Lab Smp Id: 247343002 Client Smp ID: RE15-10-8203  
Inj Date : 26-FEB-2010 11:13  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343002|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8203|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 27  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

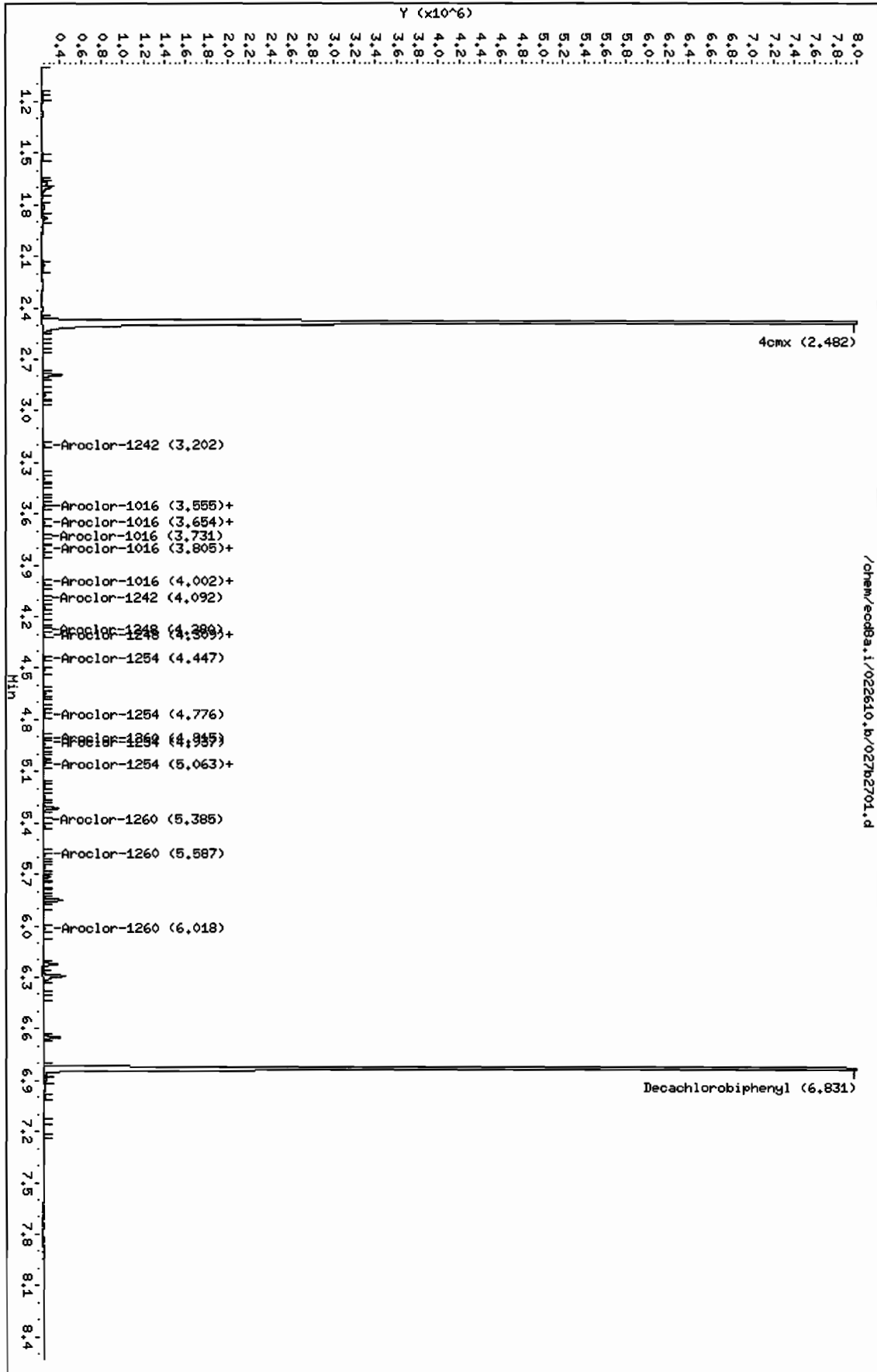
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.15000	Weight of sample extracted (g)
M	1.12040	% Moisture

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	14162134 171.714	5.8	80.00- 120.00	100.00
-----							
					CAS #: 2051-24-3		
\$ 12 Decachlorobiphenyl	6.831	6.832	-0.001	10237961 166.099	5.6	80.00- 120.00	100.00
-----							

Data File: /chem/ec88a.i/022610.b/027b2701.d  
Date : 26-FEB-2010 11:13  
Client ID: RELS-10-8203  
Sample Info: 124734300211  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ec88a.i  
Operator: JHOC  
Column diameter: 0.25



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343005

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.09 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 1.8  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8204  
Batch ID: 957590  
Run Date: 02/26/2010 11:50  
Prep Date: 02/25/2010 21:15  
Data File: 030f3001.d  
030b3001.d

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/022610.b/030f3001.d  
Report Date: 26-Feb-2010 12:27

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/030f3001.d  
Lab Smp Id: 247343005 Client Smp ID: RE15-10-8204  
Inj Date : 26-FEB-2010 11:50  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343005|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8204|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 30  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	1.84640	% Moisture

Cpnd Variable Local Compound Variable

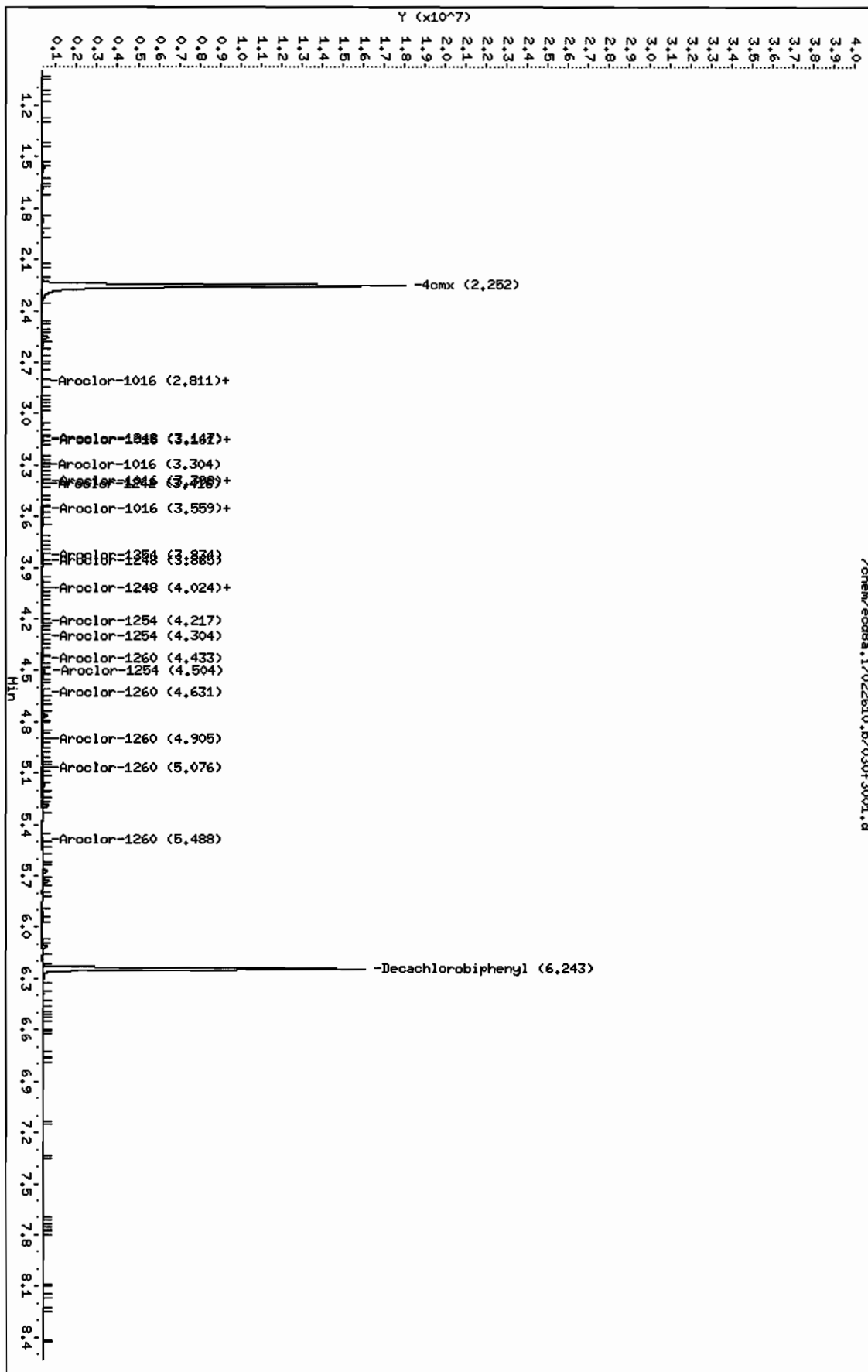
CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE ( ug/L)	(ug/Kg)	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.252	2.251	0.001	20528048 162.909	5.5	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.243	6.245	-0.002	14131188 156.460	5.3	80.00- 120.00	100.00

Data File: /chem/ecob8a.i/022610.b/030f3001.d  
Date : 26-FEB-2010 11:50  
Client ID: RE15-10-8204  
Sample Info: 124734300511  
Volume Injected (ul): 1.0  
Column phase: CLP1

Instrument: ecob8a.i  
Operator: JHOC  
Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/030b3001.d  
Report Date: 26-Feb-2010 12:17

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/030b3001.d  
Lab Smp Id: 247343005 Client Smp ID: RE15-10-8204  
Inj Date : 26-FEB-2010 11:50  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343005|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8204|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 30  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

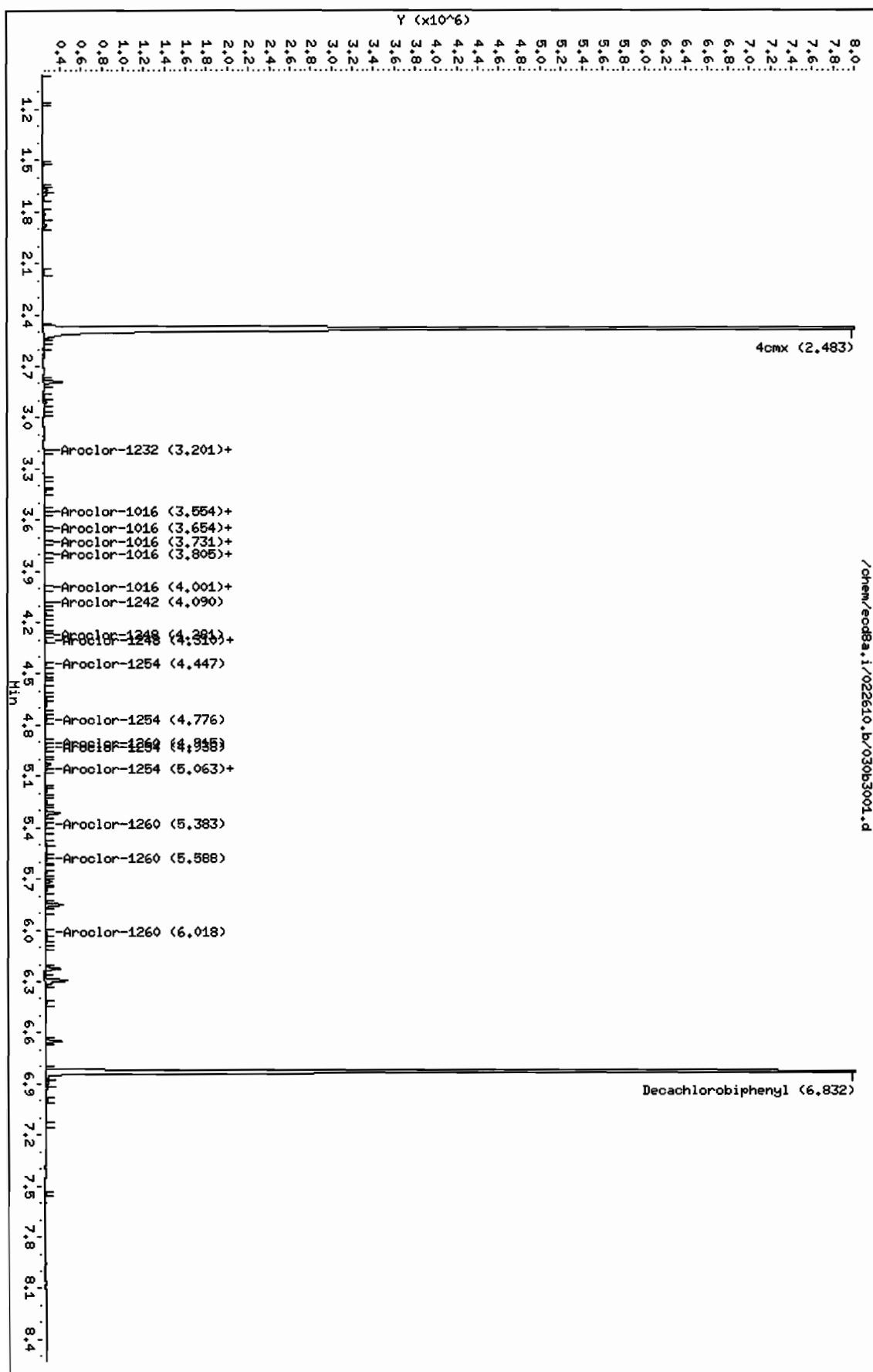
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.09000	Weight of sample extracted (g)
M	1.84640	% Moisture

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			
2.483	2.482	0.001	14327929	173.725	5.9 80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.832	6.832	0.000	10412824	168.936	5.7 80.00- 120.00	100.00	

Data File: /chem/eod8a.i/022610.b/030b3001.d  
Date : 26-FEB-2010 11:50  
Client ID: RELS-10-8204  
Sample Info: 124734300511  
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: 10-1908  
Lab Sample ID: 247343008

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.07 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: RE15-10-8205  
Batch ID: 957590  
Run Date: 02/26/2010 12:52  
Prep Date: 02/25/2010 21:15  
Data File: 035f3501.d  
035b3501.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/022610.b/035f3501.d  
Report Date: 26-Feb-2010 13:26

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/035f3501.d  
Lab Smp Id: 247343008 Client Smp ID: RE15-10-8205  
Inj Date : 26-FEB-2010 12:52  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343008|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8205|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 35  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

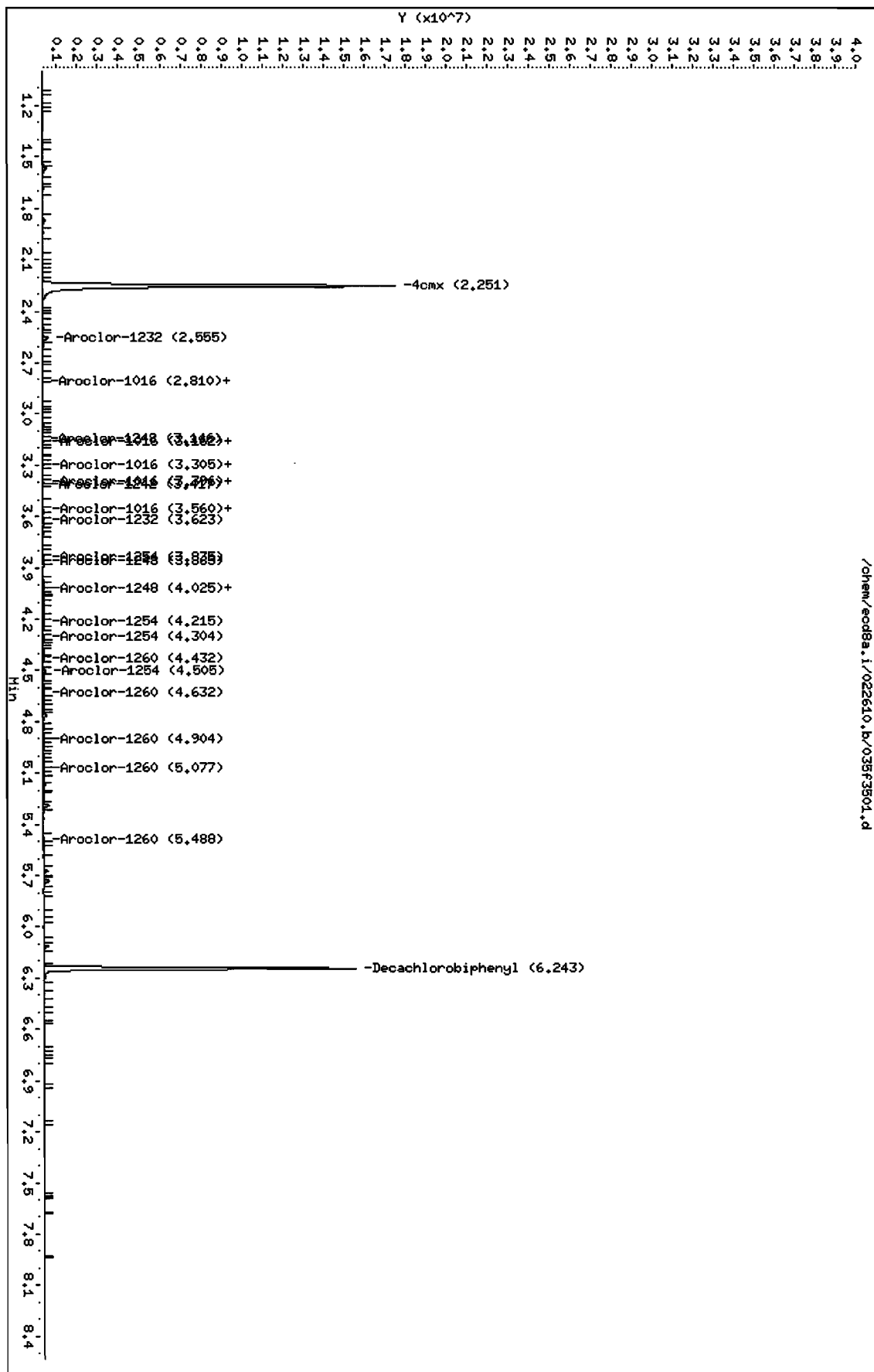
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	1.72800	% Moisture

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	19666611	156.073	5.3 80.00- 120.00	100.00	
-----							
CAS #: 2051-24-3							
\$ 12 Decachlorobiphenyl							
6.243	6.245	-0.002	13789163	152.673	5.2 80.00- 120.00	100.00	
-----							

Data File: /chem/eod8a.i/022610.b/035f3501.d  
Date : 26-FEB-2010 12:52  
Client ID: RE15-10-8205  
Sample Info: 1247343008111  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: eod8a.i  
Operator: JHOC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/035b3501.d  
 Report Date: 26-Feb-2010 13:18

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
 Data file : /chem/ecd8a.i/022610.b/035b3501.d  
 Lab Smp Id: 247343008 Client Smp ID: RE15-10-8205  
 Inj Date : 26-FEB-2010 12:52  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |247343008|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8205|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.sub  
 Target Version: 3.50 Sample Matrix: Soil

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

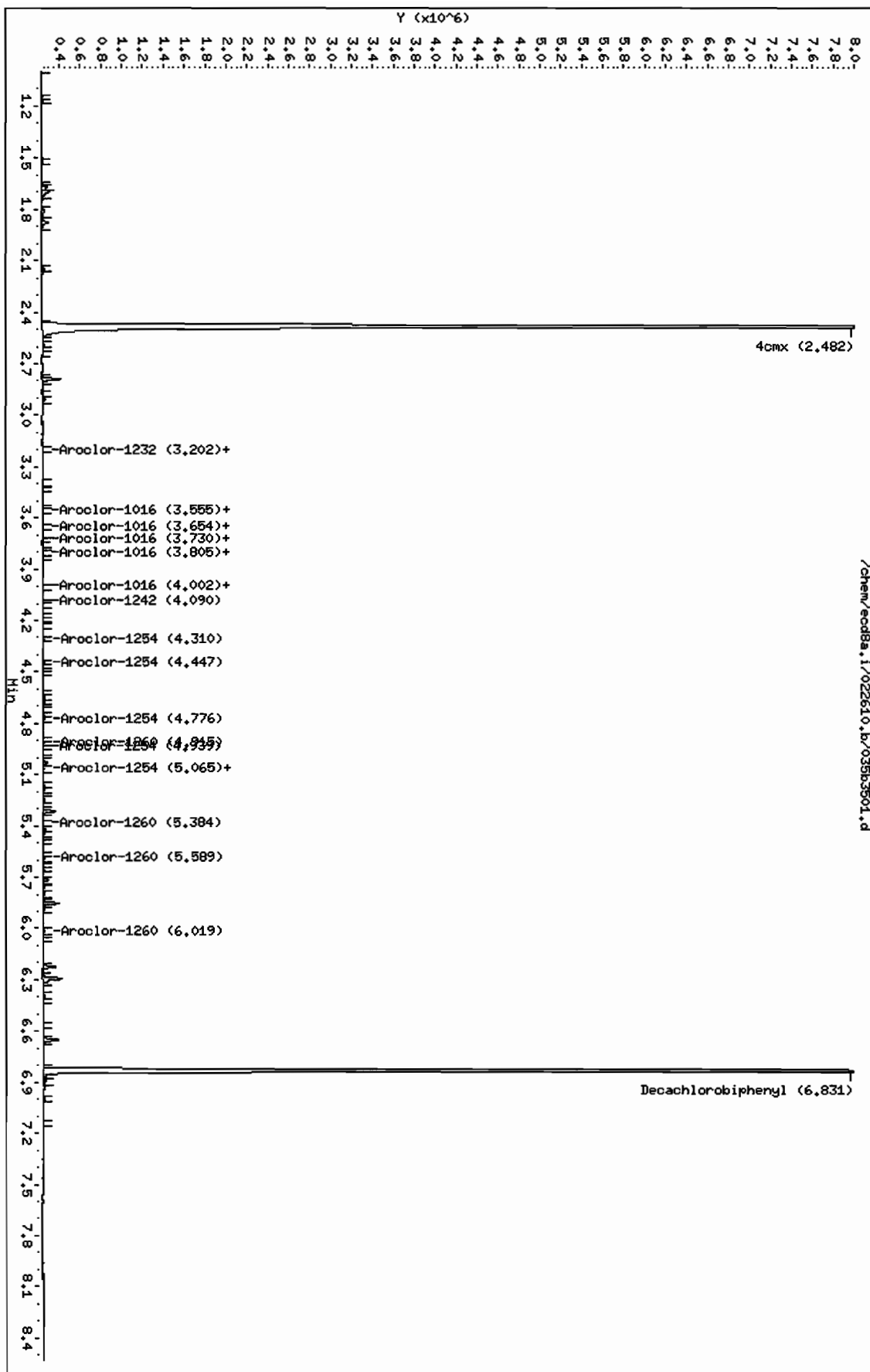
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.07000	Weight of sample extracted (g)
M	1.72800	% Moisture

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	13661907	165.649	5.6 80.00- 120.00	100.00		
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.831	6.832	-0.001	10139054	164.495	5.6 80.00- 120.00	100.00		
-----								

Data File: /chem/eodBa.1/022610.b/035b3501.d  
Date : 26-FEB-2010 12:52  
Client ID: RE15-10-8205  
Sample Info: 124734300811  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: eodBa.1  
Operator: JROC  
Column diameter: 0.25



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

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SDG Number: 10-1908  
Lab Sample ID: 247343003

Date Collected: 02/12/2010 12:00

Matrix: R

Date Received: 02/18/2010 08:45

% Moisture: 1.9

Client: LANL010

Project: LANL01004

Method: SW846 8082

SOP Ref: GL-OA-E-040

Inst: ECD8A.I

Dilution: 1

Analyst: JAOC

Inj. Vol: 1 uL

Aliquot: 30.01 g

Final Volume: 1 mL

Column: 1 CLP1

Level: LOW

Data File: 028f2801.d

2 CLP2

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/022610.b/028f2801.d  
Report Date: 26-Feb-2010 12:26

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/028f2801.d  
Lab Smp Id: 247343003 Client Smp ID: RE15-10-8206  
Inj Date : 26-FEB-2010 11:25  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343003|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8206|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 28  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	1.91180	% Moisture

Cpnd Variable Local Compound Variable

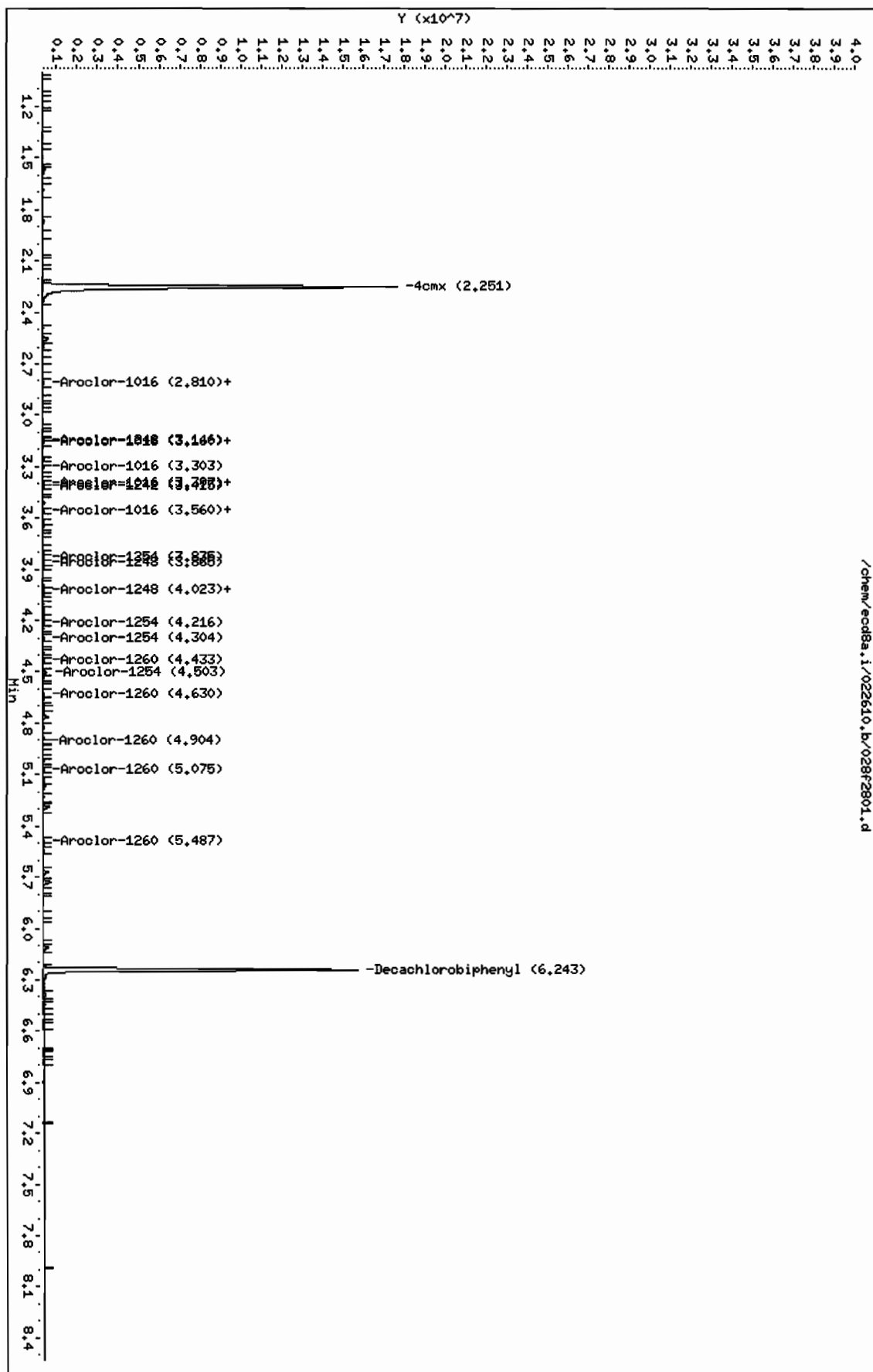
CONCENTRATIONS

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	19833578	157.398	5.3	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.243	6.245	-0.002	14176924	156.967	5.3	80.00- 120.00	100.00

Data File: /chem/ecd8a.i/022610.b/028f2801.d  
Date : 26-FEB-2010 11:25  
Client ID: RE15-10-8206  
Sample Info: 1247343003111  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecd8a.i  
Operator: JADOC  
Column diameter: 0.25



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
 Data file : /chem/ecd8a.i/022610.b/028b2801.d  
 Lab Smp Id: 247343003 Client Smp ID: RE15-10-8206  
 Inj Date : 26-FEB-2010 11:25  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |247343003|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8206|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.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	1.91180	% Moisture

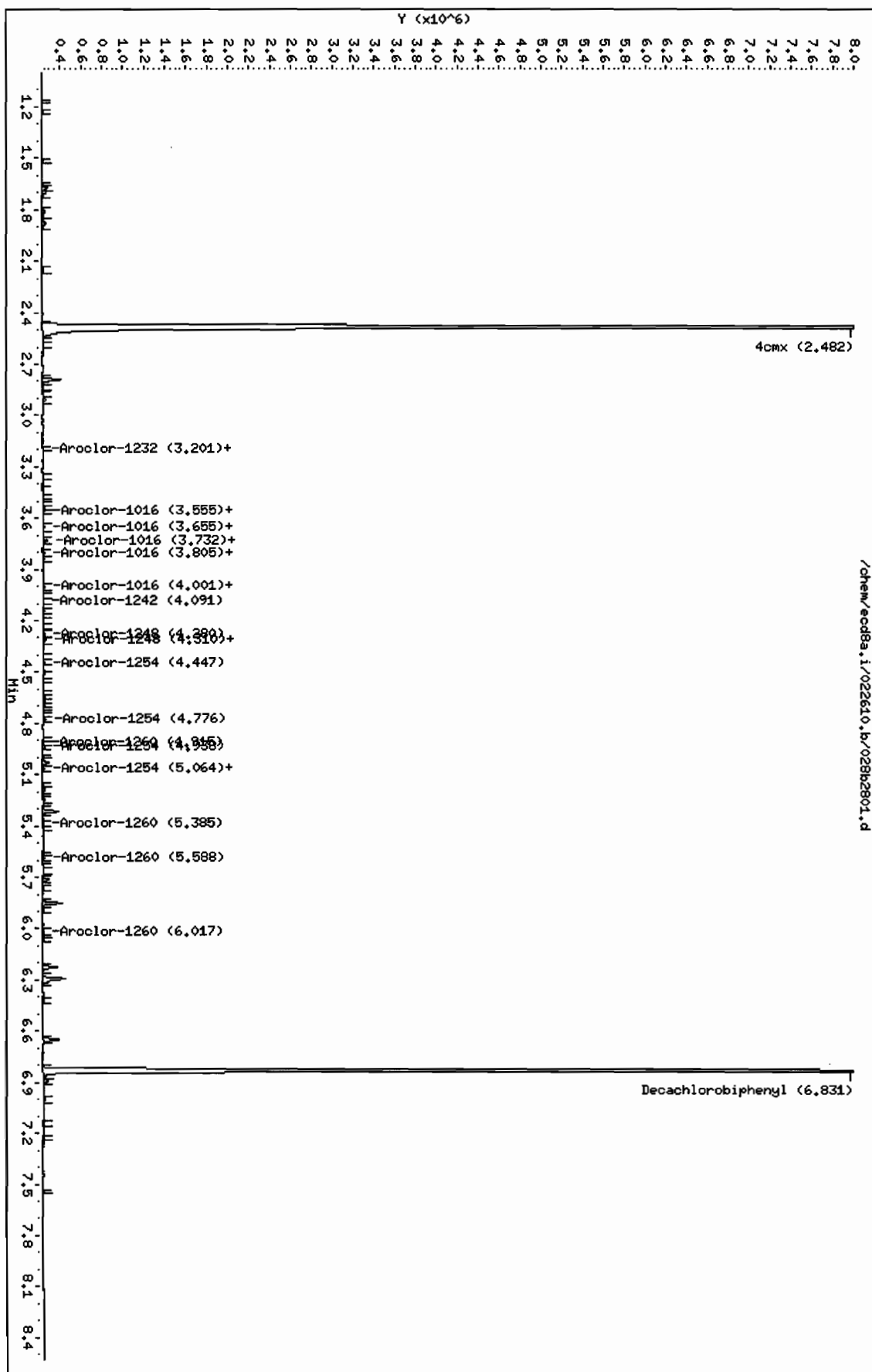
Cpnd Variable Local Compound Variable

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	13921843	168.801	5.7	80.00- 120.00	100.00	
-----								
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3				
6.831	6.832	-0.001	10362394	168.118	5.7	80.00- 120.00	100.00	
-----								

Data File: /chem/eod8a.i/022610.b/028b2801.d  
Date : 26-FEB-2010 11:25  
Client ID: RE45-10-8206  
Sample Info: 124734300311  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: eod8a.i  
Operator: JHOC  
Column diameter: 0.25

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**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343004

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.19 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 2.4  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.39	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/022610.b/029f2901.d  
Report Date: 26-Feb-2010 12:27

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/029f2901.d  
Lab Smp Id: 247343004 Client Smp ID: RE15-10-8207  
Inj Date : 26-FEB-2010 11:37  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343004|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8207|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 29  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	30.19000	Weight of sample extracted (g)
M	2.35360	% Moisture

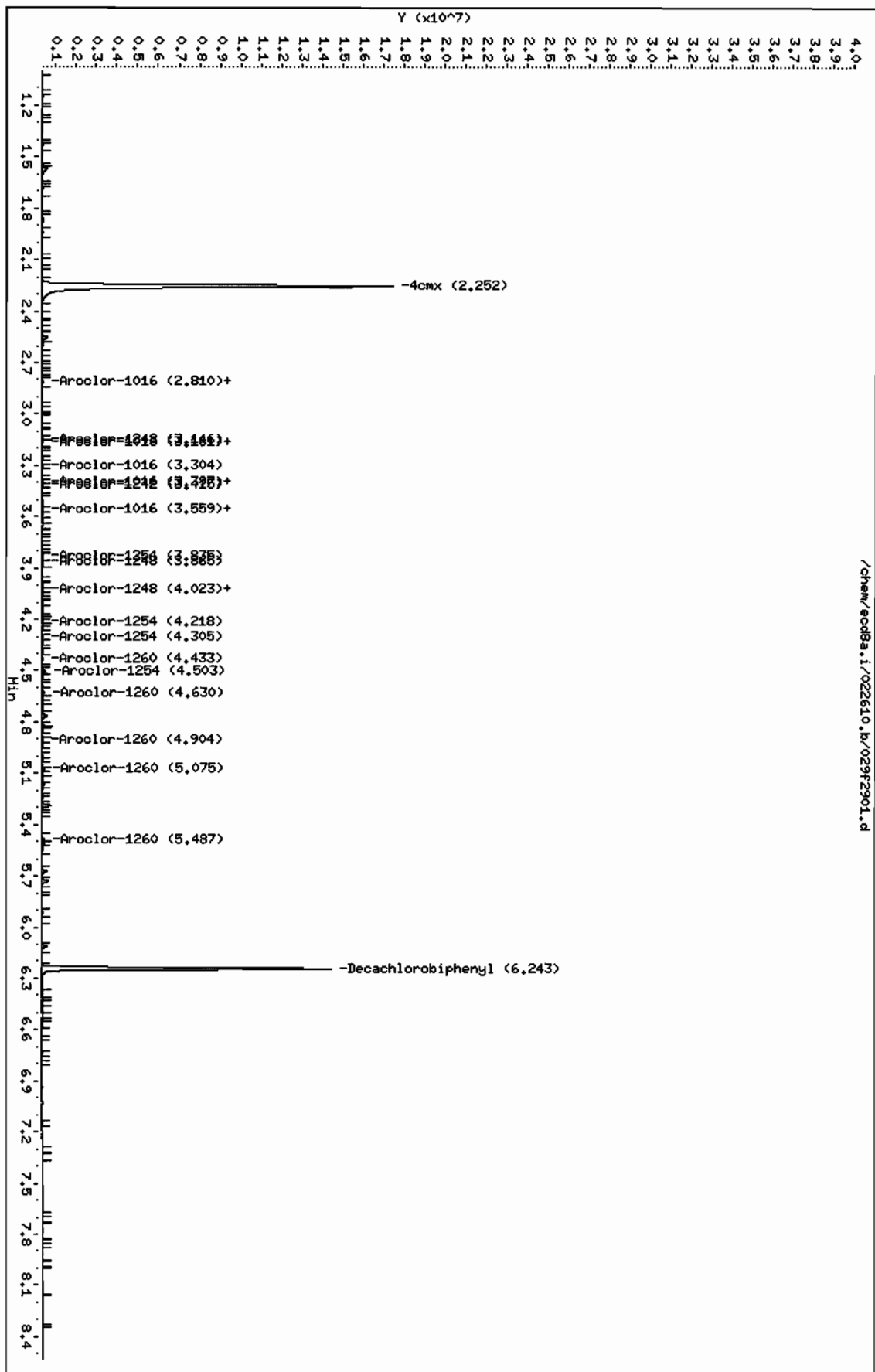
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL (ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
2.252	2.251	0.001	20100673	159.517	5.4	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.243	6.245	-0.002	12796413	141.682	4.8	80.00- 120.00	100.00

Data File: /chem/ecodba.i/022610.b/029f2901.d  
Date : 26-FEB-2010 11:37  
Client ID: RE15-10-8207  
Sample Info: 1247343004111  
Volume Injected (uL): 1.0  
Column Phase: CLP1

Instrument: ecodba.i  
Operator: JADC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/029b2901.d  
Report Date: 26-Feb-2010 12:09

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/029b2901.d  
Lab Smp Id: 247343004 Client Smp ID: RE15-10-8207  
Inj Date : 26-FEB-2010 11:37  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343004|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8207|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 29  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	30.19000	Weight of sample extracted (g)
M	2.35360	% Moisture

Cpnd Variable Local Compound Variable

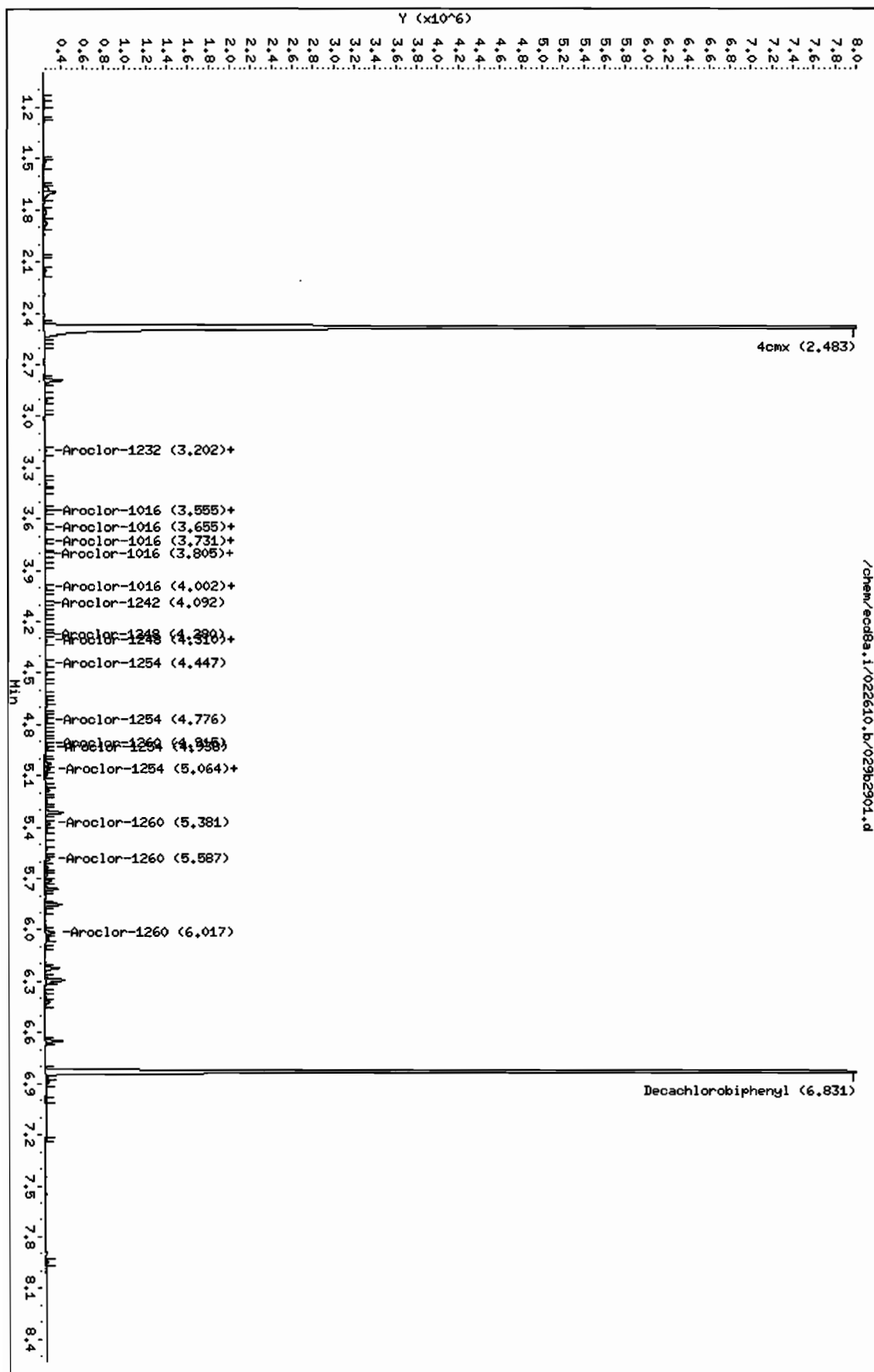
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8						
11	4cmx		13838172	167.786	5.7 80.00- 120.00	100.00
-----						
CAS #: 2051-24-3						
12	Decachlorobiphenyl		9377548	152.140	5.2 80.00- 120.00	100.00
-----						



Data File: /chem/ecd8a.i/022610.b/02962901.d  
Date: 26-FEB-2010 11:37  
Client ID: RE15-10-8207  
Sample Info: 1247343004111  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecd8a.i  
Operator: JHOC  
Column diameter: 0.25

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**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343001

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.03 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 3.1  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8208  
Batch ID: 957590  
Run Date: 02/26/2010 11:00  
Prep Date: 02/25/2010 21:15  
Data File: 026f2601.d  
026b2601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.44	ug/kg	1.14	3.44	1
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.14	3.44	1
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.14	3.44	1
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.14	3.44	1
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.14	3.44	1
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.14	3.44	1
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.14	3.44	1

Data File: /chem/ecd8a.i/022610.b/026f2601.d  
Report Date: 26-Feb-2010 12:26

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/026f2601.d  
Lab Smp Id: 247343001 Client Smp ID: RE15-10-8208  
Inj Date : 26-FEB-2010 11:00  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343001|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8208|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 26  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	3.13930	% Moisture

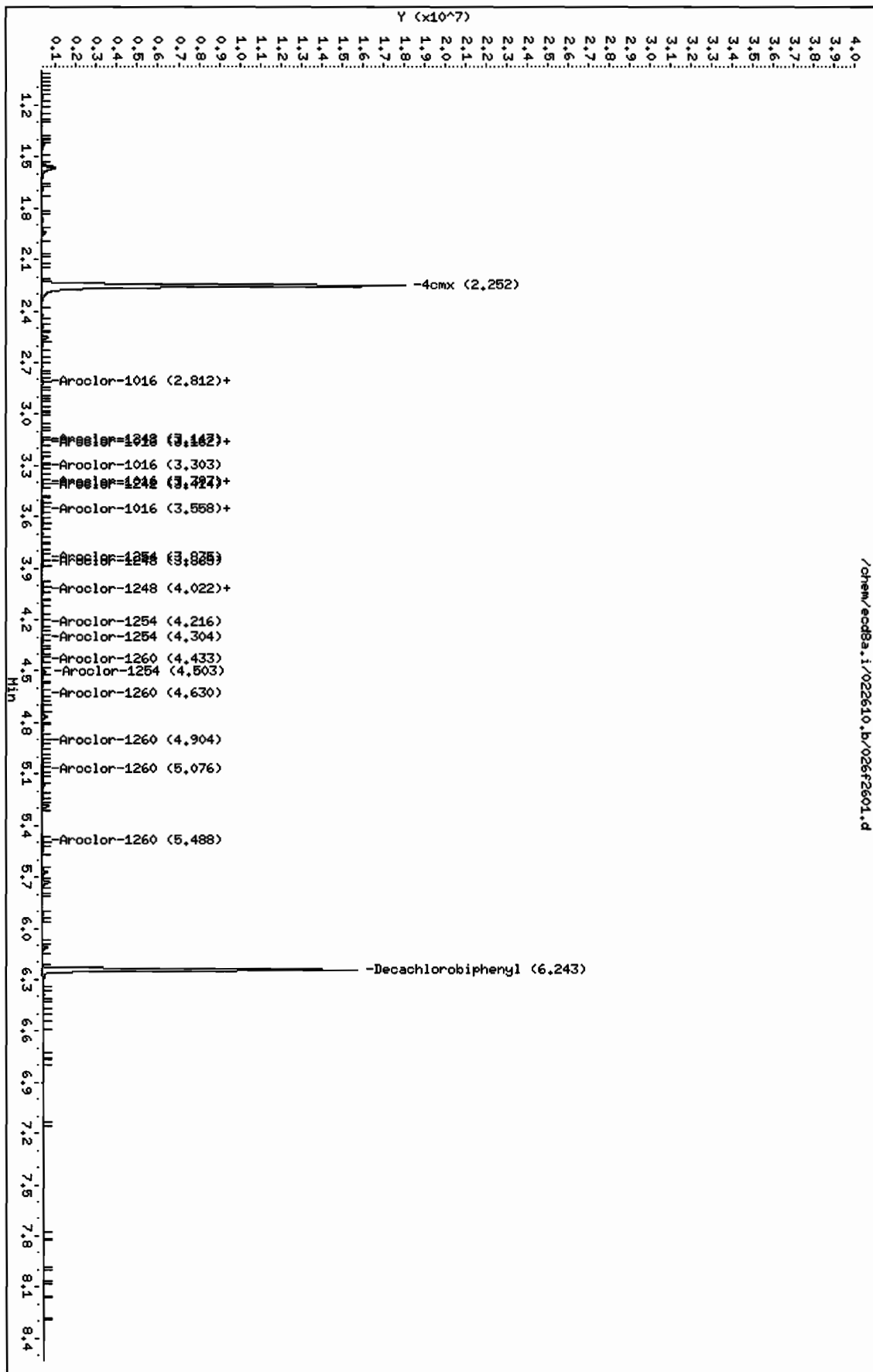
Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE ( ug/L)	(ug/Kg)	=====	=====
CAS #: 877-09-8						
2.252	2.251	0.001	20263650	160.811	5.5 80.00- 120.00	100.00
-----						
CAS #: 2051-24-3						
6.243	6.245	-0.002	13679254	151.456	5.2 80.00- 120.00	100.00
-----						

Data File: /chem/ecob8a.i/022610.b/026f2601.d  
Date : 26-FEB-2010 11:00  
Client ID: RE15-10-8208  
Sample Info: 124734300111  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecob8a.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/022610.b/026b2601.d  
 Lab Smp Id: 247343001 Client Smp ID: RE15-10-8208  
 Inj Date : 26-FEB-2010 11:00  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |247343001|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8208|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.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	3.13930	% Moisture

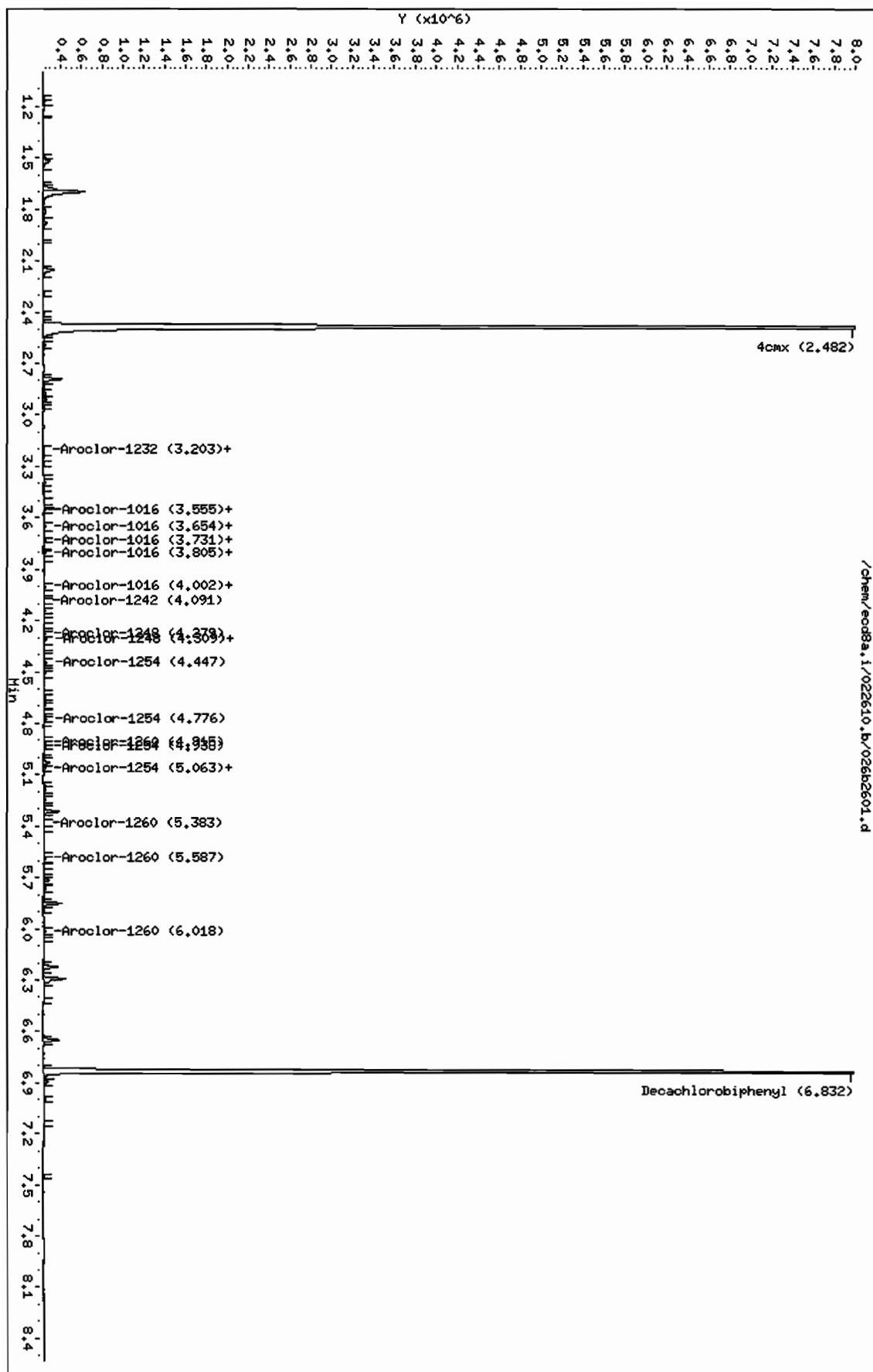
Cpnd Variable Local Compound Variable

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	13899479	168.530	5.8	80.00-	120.00	100.00
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	9932381	161.141	5.5	80.00-	120.00	100.00
-----								

Data File: /chem/ecod8a.i/022610.b/026b2601.d  
Date : 26-FEB-2010 11:00  
Client ID: RE15-10-8208  
Sample Info: 124734300111  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecod8a.i  
Operator: JAO  
Column diameter: 0.25

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**PCB**  
**Certificate of Analysis**  
**Sample Summary**

Page 1 of 1

**SDG Number:** 10-1908  
**Lab Sample ID:** 247343007

**Date Collected:** 02/12/2010 12:00

**Matrix:** R

**Date Received:** 02/18/2010 08:45

**%Moisture:** 1.9

**Client:** LANL010

**Project:** LANL01004

**Method:** SW846 8082

**SOP Ref:** GL-OA-E-040

**Inst:** ECD8A.I

**Dilution:** 1

**Analyst:** JAOC

**Inj. Vol:** 1 uL

**Aliquot:** 30.14 g

**Final Volume:** 1 mL

**Column:** 1 CLP1

**Level:** LOW

**Client ID:** RE15-10-8209

**Batch ID:** 957590

**Run Date:** 02/26/2010 12:39

**Prep Date:** 02/25/2010 21:15

**Data File:** 034f3401.d

034b3401.d

2 CLP2

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/022610.b/034f3401.d  
Report Date: 26-Feb-2010 13:18

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/034f3401.d

Lab Smp Id: 247343007

Client Smp ID: RE15-10-8209

Inj Date : 26-FEB-2010 12:39

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |247343007|1|

Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8209|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 34

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1908.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.93660	% Moisture

Cpnd Variable Local Compound Variable

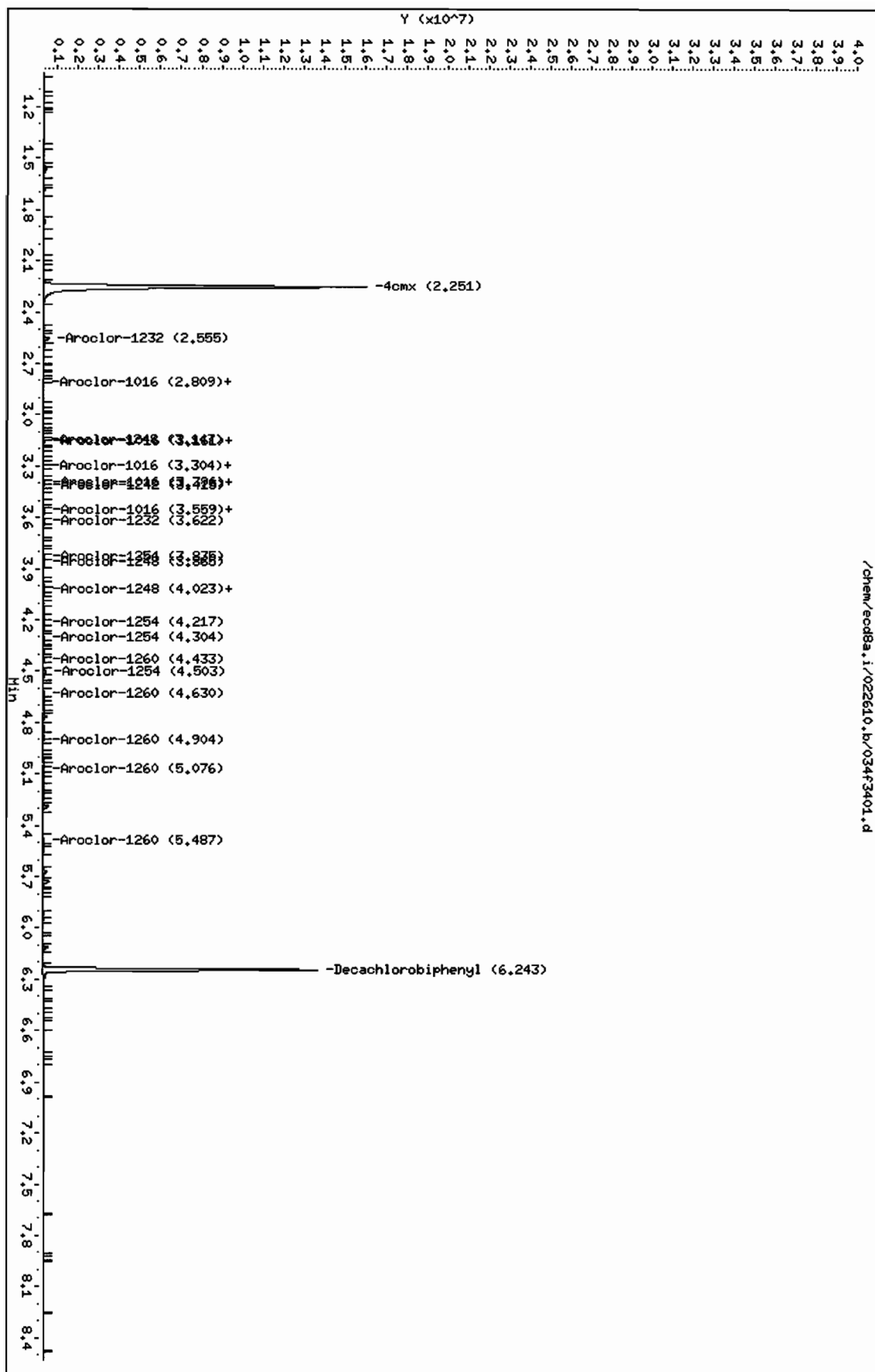
CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
CAS #: 877-09-8							
2.251	2.251	0.000	18412948	146.124	4.9	80.00- 120.00	100.00
CAS #: 2051-24-3							
6.243	6.245	-0.002	12193027	135.001	4.6	80.00- 120.00	100.00



Data File: /chem/ecodba.i/022610.b/034f3401.d  
Date : 26-FEB-2010 12:39  
Client ID: RE15-10-8209  
Sample Info: 1247343007141  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecodba.i  
Operator: J90C  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/034b3401.d  
Report Date: 26-Feb-2010 13:18

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/034b3401.d  
Lab Smp Id: 247343007 Client Smp ID: RE15-10-8209  
Inj Date : 26-FEB-2010 12:39  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343007|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8209|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 34  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

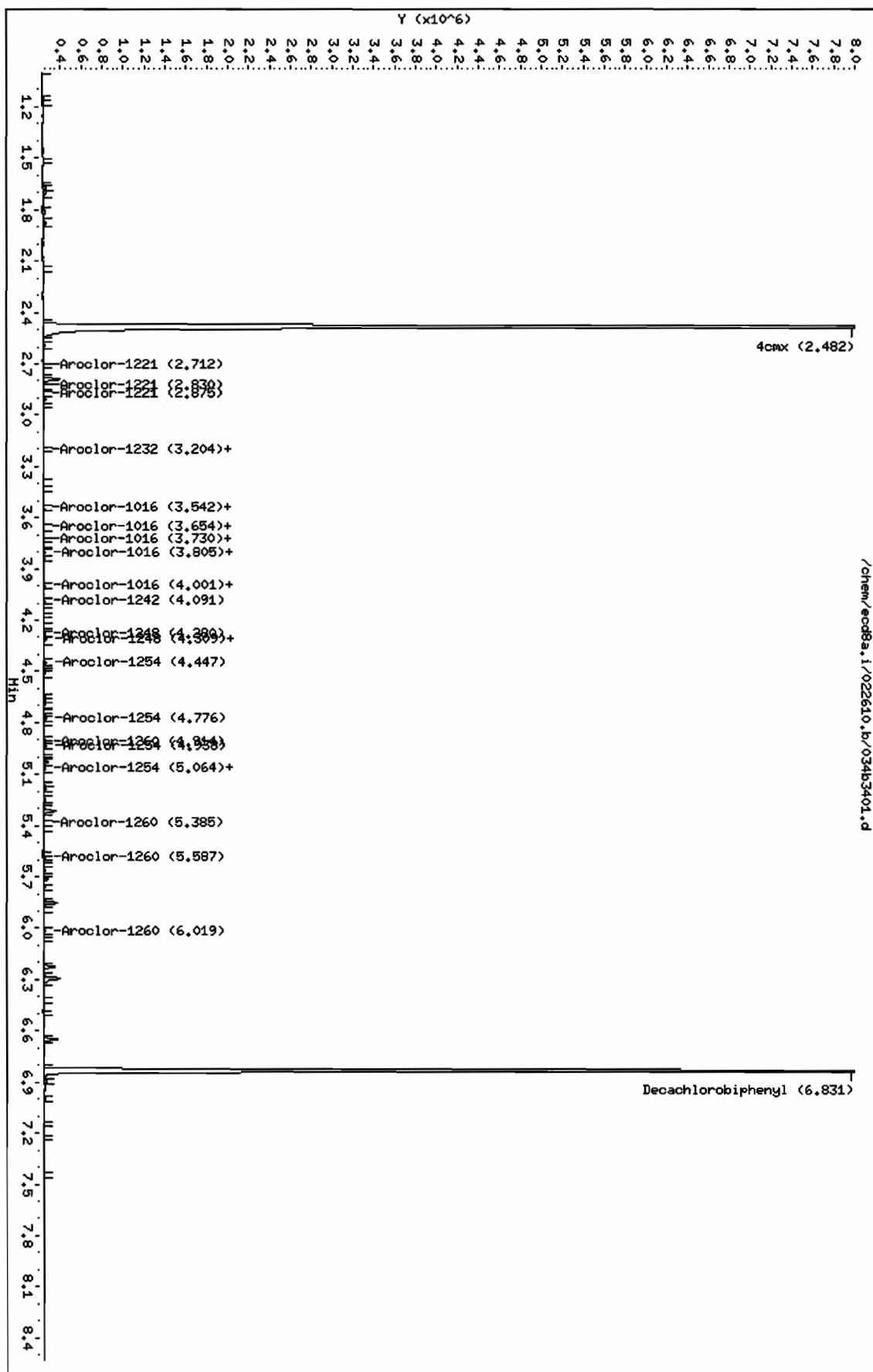
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.93660	% Moisture

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	12521207	151.818	5.1 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.831	6.832	-0.001	8986550	145.796	4.9 80.00- 120.00	100.00	
-----							

Data File: /chem/ecdb8a.i/022610.b/034b3401.d  
 Date : 26-FEB-2010 12:39  
 Client ID: REL5-10-8209  
 Sample Info: 1247343007111  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecdb8a.i  
 Operator: J90C  
 Column diameter: 0.25



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

Page 1 of 1

SDG Number: 10-1908  
Lab Sample ID: 247343011

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.19 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 1.5  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8212  
Batch ID: 957590  
Run Date: 02/26/2010 13:29  
Prep Date: 02/25/2010 21:15  
Data File: 038f3801.d  
038b3801.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.36	ug/kg	1.12	3.36	1
11104-28-2	Aroclor-1221	U	3.36	ug/kg	1.12	3.36	1
11141-16-5	Aroclor-1232	U	3.36	ug/kg	1.12	3.36	1
53469-21-9	Aroclor-1242	U	3.36	ug/kg	1.12	3.36	1
12672-29-6	Aroclor-1248	U	3.36	ug/kg	1.12	3.36	1
11097-69-1	Aroclor-1254	U	3.36	ug/kg	1.12	3.36	1
11096-82-5	Aroclor-1260	U	3.36	ug/kg	1.12	3.36	1

Data File: /chem/ecd8a.i/022610.b/038f3801.d  
Report Date: 26-Feb-2010 14:12

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/038f3801.d  
Lab Smp Id: 247343011 Client Smp ID: RE15-10-8212  
Inj Date : 26-FEB-2010 13:29  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343011|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8212|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 38  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	30.19000	Weight of sample extracted (g)
M	1.52410	% Moisture

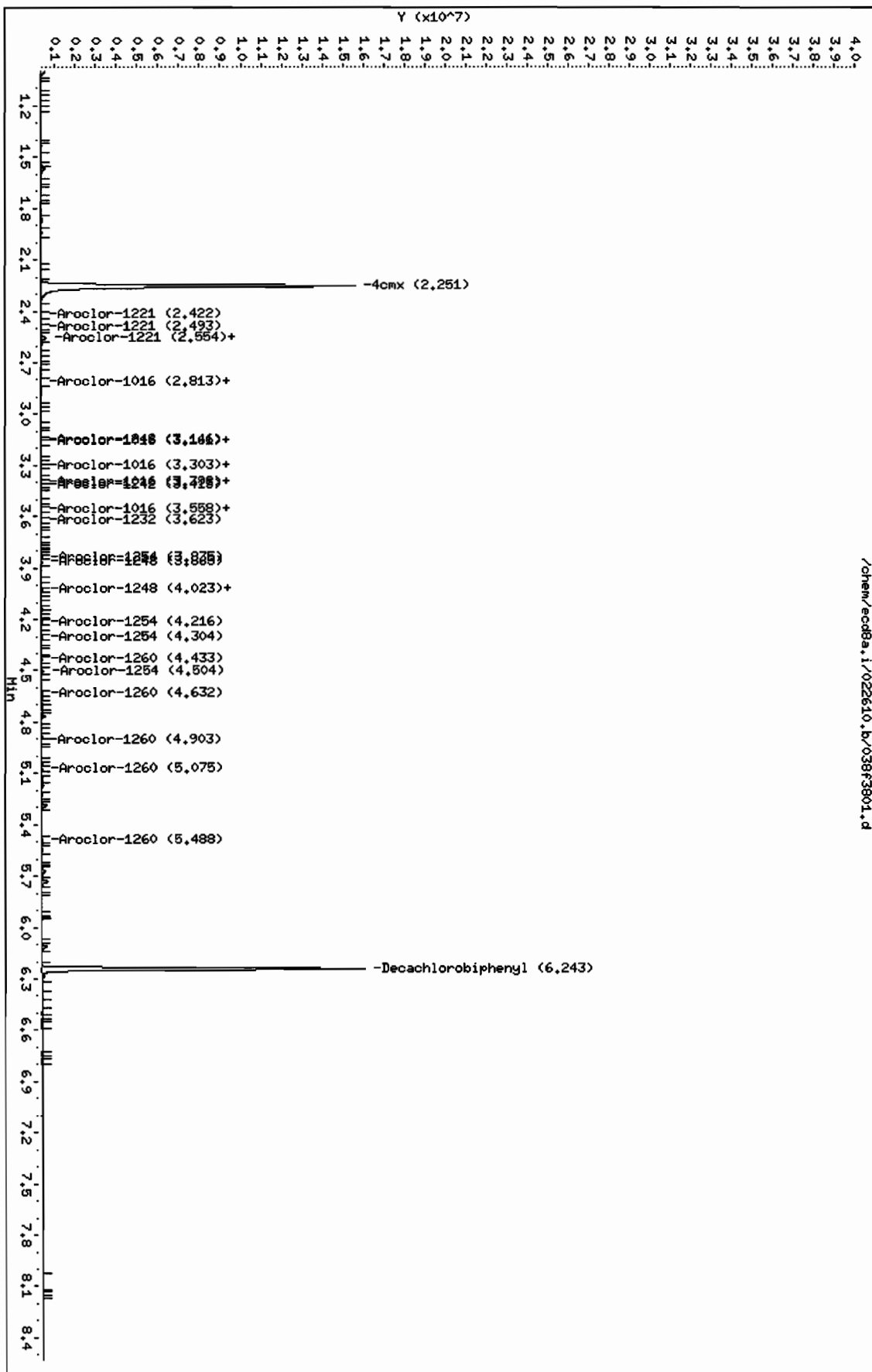
Cpnd Variable Local Compound Variable

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	17559941 139.354	4.7 80.00- 120.00	100.00
-----						
CAS #: 2051-24-3						
\$ 12 Decachlorobiphenyl	6.243	6.245	-0.002	14078997 155.882	5.2 80.00- 120.00	100.00
-----						

Data File: /chem/ecod8a.i/022610.b/038f3801.d  
 Date : 26-FEB-2010 13:29  
 Client ID: RE15-10-8212  
 Sample Info: 124734301111  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: ecod8a.i  
 Operator: J60C  
 Column diameter: 0.25

/chem/ecod8a.i/022610.b/038f3801.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
 Data file : /chem/ecd8a.i/022610.b/038b3801.d  
 Lab Smp Id: 247343011 Client Smp ID: RE15-10-8212  
 Inj Date : 26-FEB-2010 13:29  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |247343011|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8212|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 38  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.sub  
 Target Version: 3.50 Sample Matrix: Soil

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

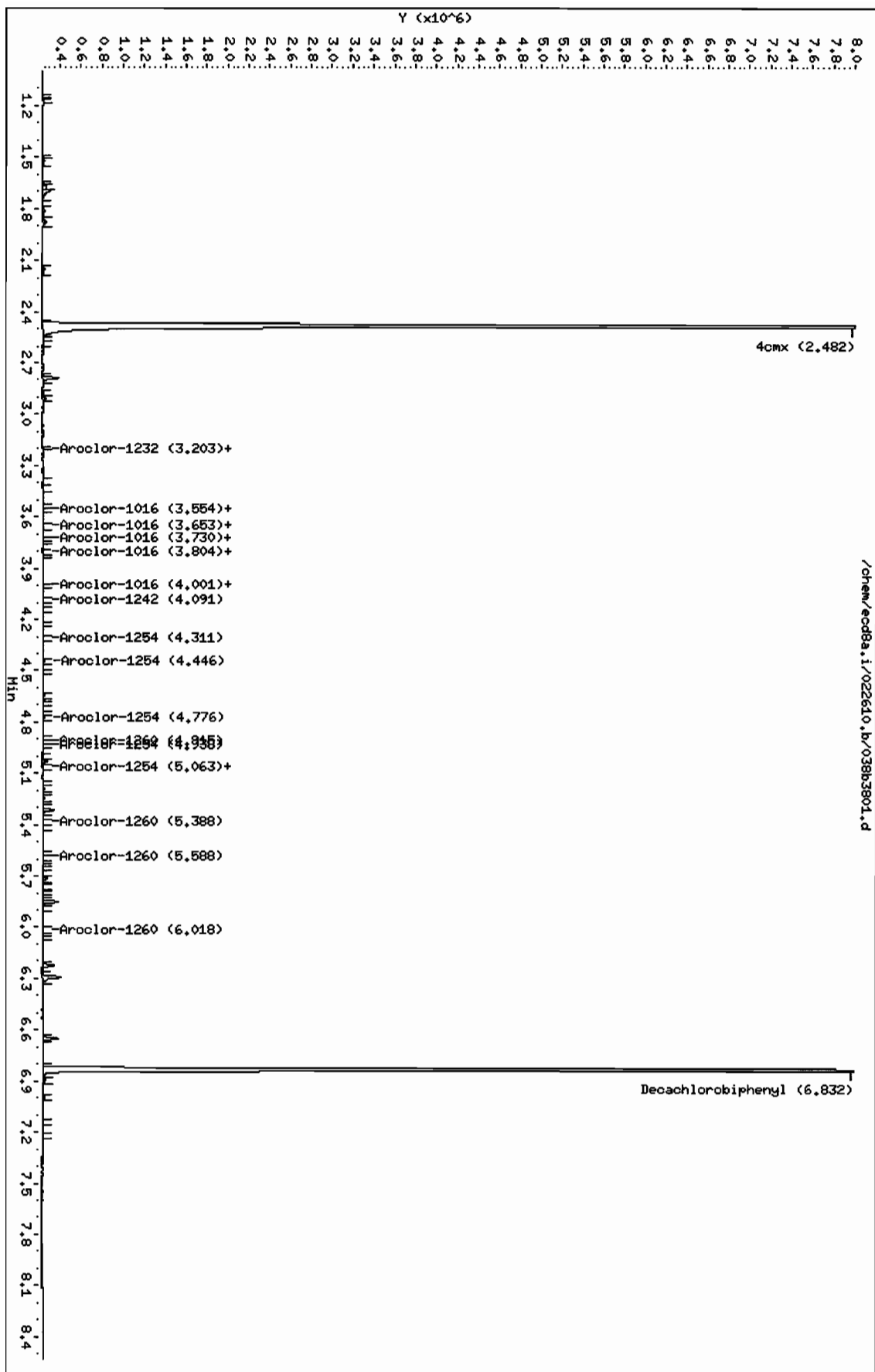
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.19000	Weight of sample extracted (g)
M	1.52410	% Moisture

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	12051366	146.122	4.9 80.00- 120.00	100.00
CAS #: 2051-24-3							
\$ 12 Decachlorobiphenyl	6.832	6.832	0.000	10219291	165.796	5.6 80.00- 120.00	100.00

Data File: /chem/ecod8a.i/022610.b/038b3801.d  
 Date : 26-FEB-2010 13:29  
 Client ID: RELS-10-8242  
 Sample Info: 124734301111  
 Volume Injected (uL): 1.0  
 Column Phase: CLP2

Instrument: ecod8a.i  
 Operator: JADC  
 Column diameter: 0.25





**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343009

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.02 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: RE15-10-8227  
Batch ID: 957590  
Run Date: 02/26/2010 13:04  
Prep Date: 02/25/2010 21:15  
Data File: 036f3601.d  
036b3601.d

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.13	3.41	1
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.13	3.41	1
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.13	3.41	1
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.13	3.41	1
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.13	3.41	1
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.13	3.41	1
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.13	3.41	1

Data File: /chem/ecd8a.i/022610.b/036f3601.d  
Report Date: 26-Feb-2010 13:29

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/036f3601.d  
Lab Smp Id: 247343009 Client Smp ID: RE15-10-8227  
Inj Date : 26-FEB-2010 13:04  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343009|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8227|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 36  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	30.02000	Weight of sample extracted (g)
M	2.18920	% Moisture

Cpnd Variable Local Compound Variable

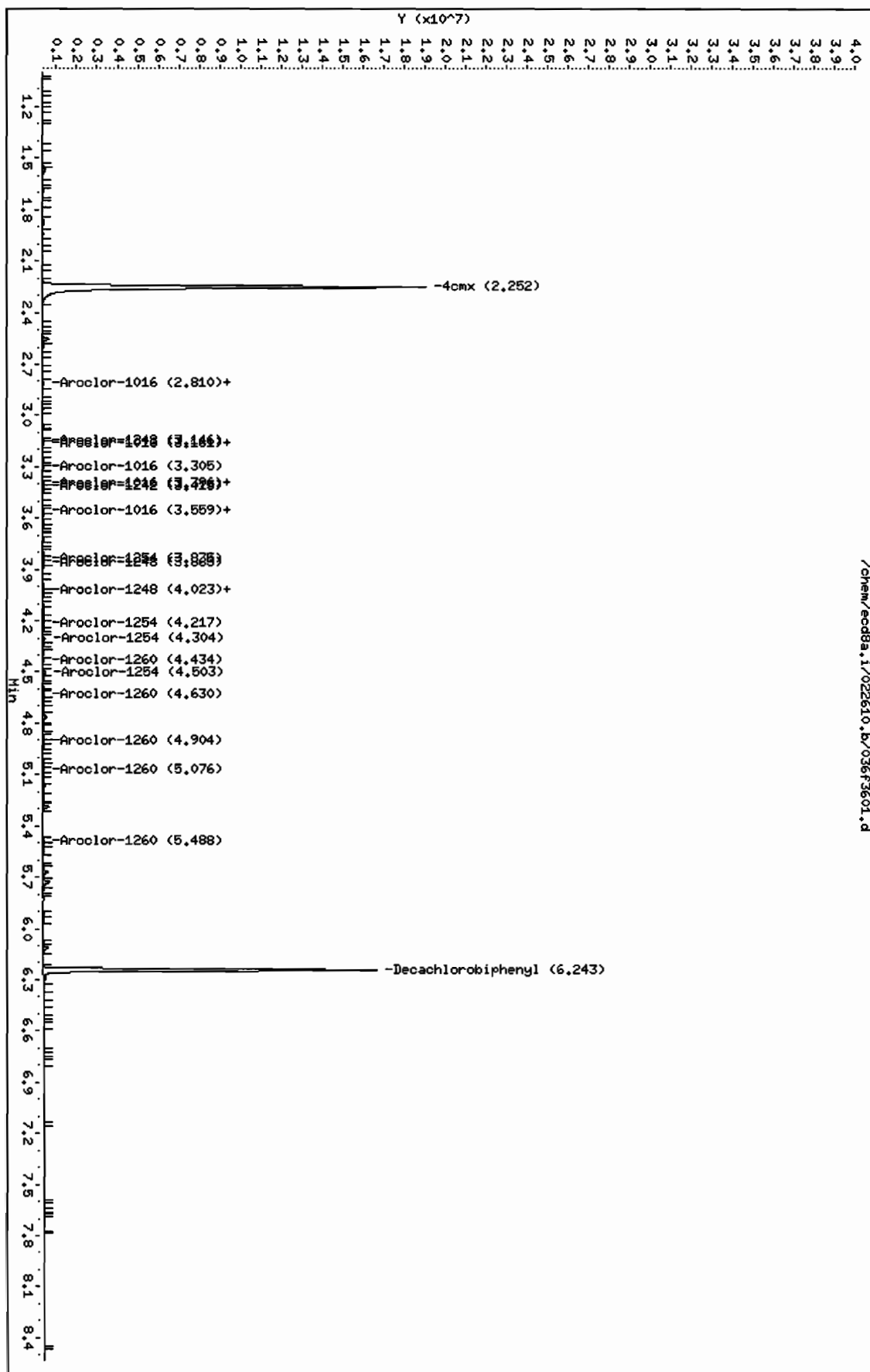
CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE ( ug/L)	(ug/Kg)	=====	=====
\$ 11 4cmx				CAS #: 877-09-8		
2.252	2.251	0.001	21621060	171.583	5.8 80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.243	6.245	-0.002	14376619	159.178	5.4 80.00- 120.00	100.00

Data File: /chem/ecdb8a.i/022610.b/036f3601.d  
Date : 26-FEB-2010 13:04  
Client ID: RE15-10-8227  
Sample Info: 124734300911  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecdb8a.i  
Operator: JHOC  
Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/036b3601.d  
Report Date: 26-Feb-2010 13:19

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/036b3601.d  
Lab Smp Id: 247343009 Client Smp ID: RE15-10-8227  
Inj Date : 26-FEB-2010 13:04  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343009|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8227|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 36  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

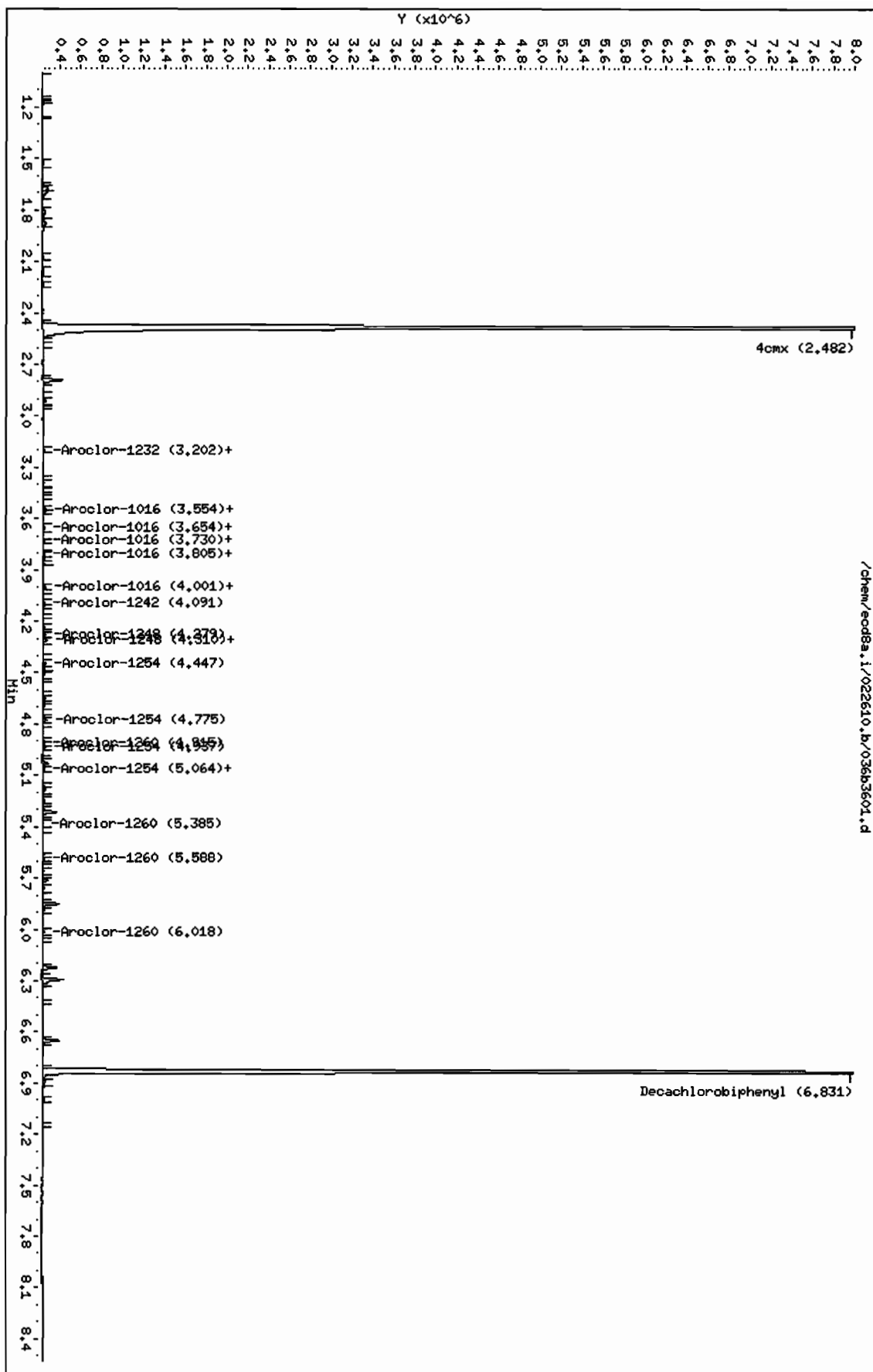
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.02000	Weight of sample extracted (g)
M	2.18920	% Moisture

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	15406728	186.805	6.4 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.831	6.832	-0.001	10638392	172.596	5.9 80.00- 120.00	100.00	
-----							

Data File: /chem/ecod8a.i/022610.b/036b3601.d  
 Date : 26-FEB-2010 13:04  
 Client ID: RELB-10-8227  
 Sample Info: 1247343009111  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecod8a.i  
 Operator: JAO  
 Column diameter: 0.25



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
Lab Sample ID: 247343010

Date Collected: 02/12/2010 12:00  
Date Received: 02/18/2010 08:45  
Client: LANL010  
Method: SW846 8082  
Inst: ECD8A.I  
Analyst: JAOC  
Aliquot: 30.01 g  
Column: 1 CLP1  
2 CLP2

Matrix: R  
%Moisture: 1.6  
Project: LANL01004  
SOP Ref: GL-OA-E-040  
Dilution: 1  
Inj. Vol: 1 uL  
Final Volume: 1 mL  
Level: LOW

Client ID: RE15-10-8228  
Batch ID: 957590  
Run Date: 02/26/2010 13:16  
Prep Date: 02/25/2010 21:15  
Data File: 037f3701.d  
037b3701.d

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/022610.b/037f3701.d  
Report Date: 26-Feb-2010 14:11

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/037f3701.d  
Lab Smp Id: 247343010 Client Smp ID: RE15-10-8228  
Inj Date : 26-FEB-2010 13:16  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |247343010|1|  
Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8228|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 37  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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	1.64110	% Moisture

Cpnd Variable Local Compound Variable

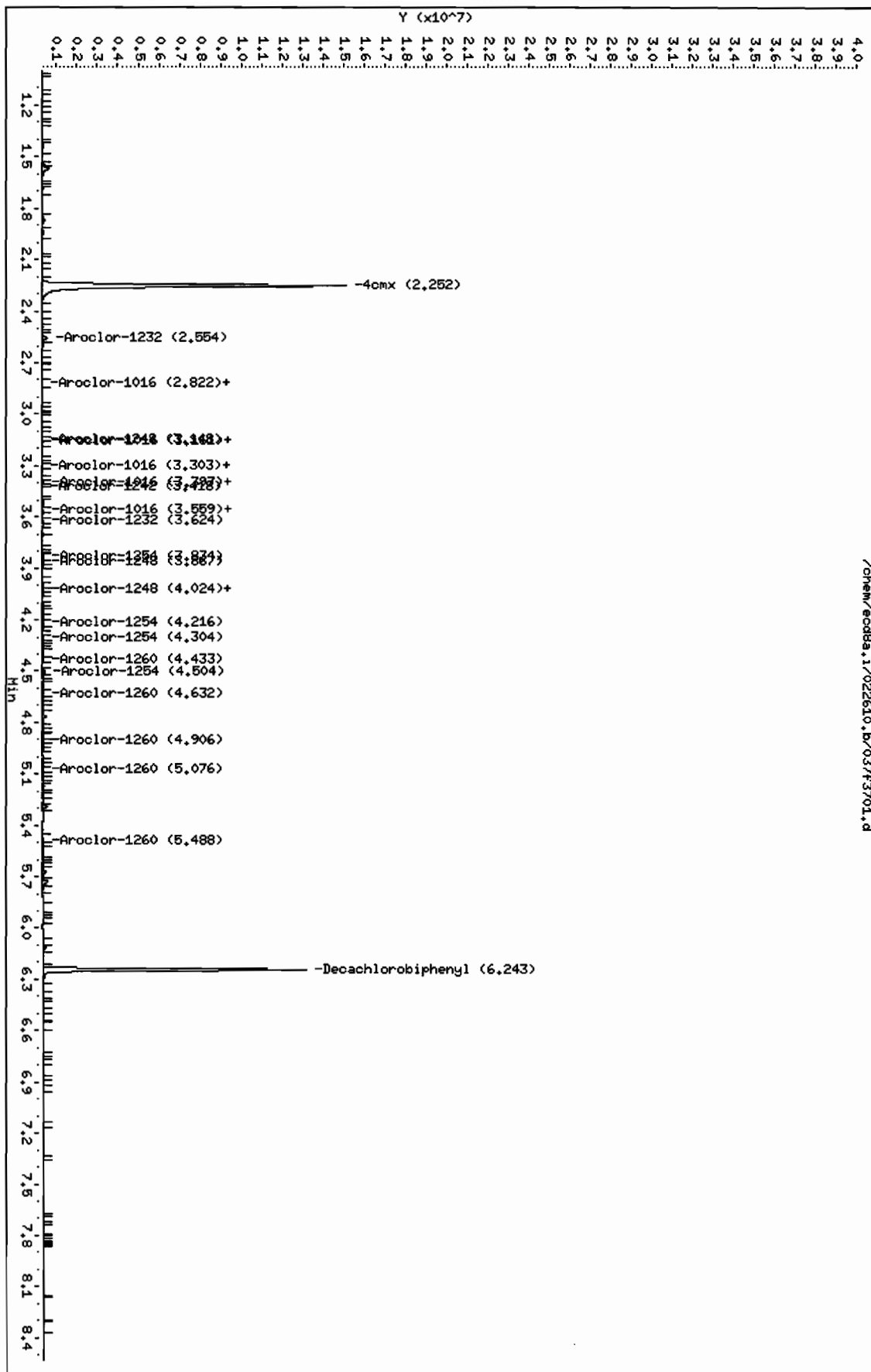
CONCENTRATIONS

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	17034979	135.188	4.6	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.243	6.245	-0.002	11433811	126.595	4.3	80.00- 120.00	100.00

Data File: /chem/eod8a.i/022610.b/0373701.d  
 Date: 26-FEB-2010 13:16  
 Client ID: RELS-10-8228  
 Sample Info: 124734301011  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: eod8a.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/022610.b/037b3701.d  
 Lab Smp Id: 247343010 Client Smp ID: RE15-10-8228  
 Inj Date : 26-FEB-2010 13:16  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |247343010|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|LANL|SOIL|RE15-10-8228|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.sub  
 Target Version: 3.50 Sample Matrix: Soil

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

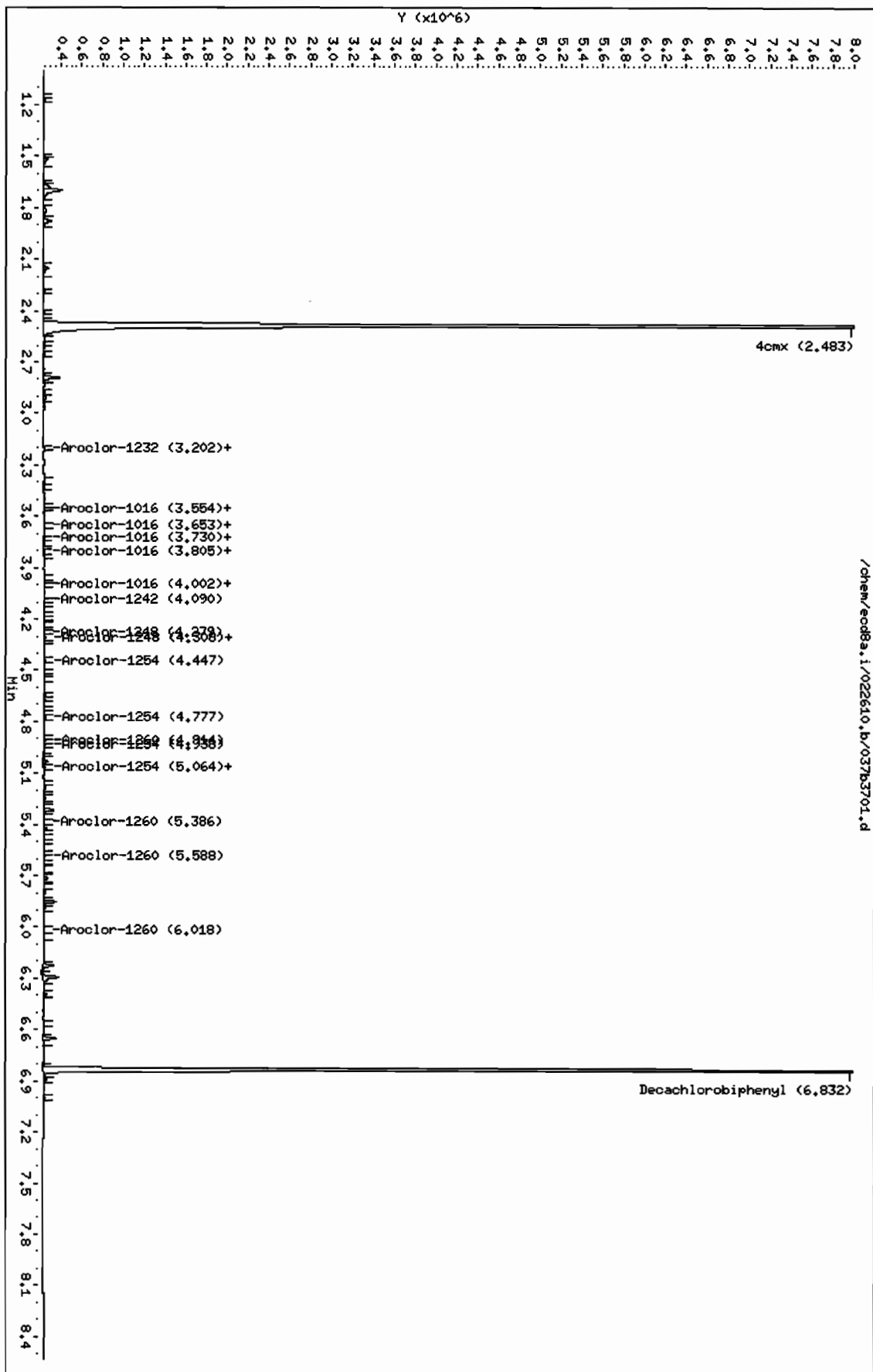
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.01000	Weight of sample extracted (g)
M	1.64110	% Moisture

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			
2.483	2.482	0.001	11982628	145.288	4.9 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.832	6.832	0.000	8287763	134.459	4.6 80.00- 120.00	100.00	

Data File: /chem/ecodba.i/022610.b/037b3701.d  
 Date: 26-FEB-2010 13:16  
 Client ID: RELS-10-8228  
 Sample Info: 124734301011  
 Volume Injected (uL): 1.0  
 Column phase: CLP2

Instrument: ecodba.i  
 Operator: JROC  
 Column diameter: 0.25



# STANDARDS DATA

Report Date: 26-Feb-2010 13:23

### Calibration History

Method : /chem/ecd8a.i/022610.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		
26-FEB-2010 12:14	AR1660	/chem/ecd8a.i/022610.b/032f3201.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 09:46	AR1660	/chem/ecd8a.i/022610.b/020f2001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:11	AR1268	/chem/ecd8a.i/022610.b/009f0901.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007f0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006f0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008f0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:22	AR1248	/chem/ecd8a.i/022610.b/005f0501.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:09	AR1242	/chem/ecd8a.i/022610.b/004f0401.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:57	AR1254	/chem/ecd8a.i/022610.b/003f0301.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:45	AR1660	/chem/ecd8a.i/022610.b/002f0201.d

Report Date: 26-Feb-2010 13:23

### Calibration History

Method : /chem/ecd8a.i/022610.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		
26-FEB-2010 12:14	AR1660	/chem/ecd8a.i/022610.b/032b3201.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 09:46	AR1660	/chem/ecd8a.i/022610.b/020b2001.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 07:11	AR1268	/chem/ecd8a.i/022610.b/009b0901.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:59	AR1262	/chem/ecd8a.i/022610.b/008b0801.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:46	AR1221	/chem/ecd8a.i/022610.b/007b0701.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:34	AR1232	/chem/ecd8a.i/022610.b/006b0601.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:22	AR1248	/chem/ecd8a.i/022610.b/005b0501.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 06:09	AR1242	/chem/ecd8a.i/022610.b/004b0401.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:57	AR1254	/chem/ecd8a.i/022610.b/003b0301.d
Ccal Level: 4 , Ccal Amount: 1000		
26-FEB-2010 05:45	AR1660	/chem/ecd8a.i/022610.b/002b0201.d

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 26-Feb-2010 12:24 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	2.810	2.780-2.840	4.551e+03
	3.161	3.131-3.191	5.610e+03
	3.305	3.275-3.335	2.392e+03
	3.397	3.367-3.427	2.141e+03
	3.560	3.530-3.590	3.099e+03
2 Aroclor-1221	2.393	2.363-2.423	1.568e+03
	2.507	2.477-2.537	9.154e+02
	2.538	2.508-2.568	3.573e+03
3 Aroclor-1232	2.539	2.509-2.569	2.601e+03
	2.809	2.779-2.839	2.261e+03
	3.305	3.275-3.335	1.243e+03
	3.559	3.529-3.589	1.479e+03
4 Aroclor-1242	3.621	3.591-3.651	9.227e+02
	2.809	2.779-2.839	3.974e+03
	3.161	3.131-3.191	4.796e+03
	3.397	3.367-3.427	1.805e+03
	3.414	3.384-3.444	1.889e+03
5 Aroclor-1248	3.559	3.529-3.589	2.645e+03
	3.147	3.117-3.177	2.990e+03
	3.397	3.367-3.427	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/022610.b/ECD8-F-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	3.835	3.805-3.865	4.785e+03
	4.022	3.992-4.052	6.569e+03
	4.218	4.188-4.248	5.138e+03
	4.305	4.275-4.335	8.797e+03
	4.500	4.470-4.530	6.914e+03
7 Aroclor-1260	4.434	4.404-4.464	6.476e+03
	4.630	4.600-4.660	9.548e+03
	4.905	4.875-4.935	5.666e+03
	5.077	5.047-5.107	5.904e+03
	5.488	5.458-5.518	6.229e+03
8 Aroclor-1262	4.335	4.305-4.365	3.367e+03
	4.433	4.403-4.463	5.243e+03
	4.628	4.598-4.658	7.103e+03
	4.904	4.874-4.934	8.580e+03
	5.076	5.046-5.106	7.966e+03
9 Aroclor-1268	5.511	5.481-5.541	1.632e+04
	5.538	5.508-5.568	1.572e+04
	5.672	5.642-5.702	1.207e+04
	5.917	5.887-5.947	6.023e+03
	6.114	6.084-6.144	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	6.245	6.215-6.275	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/022610.b/ECD8-B-8082-020310a.m  
 Quant Method : ESTD Target Version : 3.50  
 Last Update : 26-Feb-2010 12:24 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	3.555	3.525-3.585	3.619e+03
	3.654	3.624-3.684	2.410e+03
	3.730	3.700-3.760	1.453e+03
	3.805	3.775-3.835	1.434e+03
	4.002	3.972-4.032	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	3.202	3.172-3.232	1.515e+03
	3.555	3.525-3.585	1.744e+03
	3.654	3.624-3.684	1.176e+03
	3.730	3.700-3.760	7.101e+02
4 Aroclor-1242	3.805	3.775-3.835	6.182e+02
	3.202	3.172-3.232	2.677e+03
	3.555	3.525-3.585	3.126e+03
	3.654	3.624-3.684	2.127e+03
	4.002	3.972-4.032	1.703e+03
5 Aroclor-1248	4.092	4.062-4.122	1.567e+03
	3.654	3.624-3.684	1.427e+03
	3.805	3.775-3.835	2.467e+03
	4.002	3.972-4.032	3.089e+03
	4.279	4.249-4.309	3.647e+03
	4.312	4.282-4.342	4.004e+03

## GEL Laboratories LLC

## COMPOUND LISTING

Method file : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Compound	RT	RT Window	RF
6 Aroclor-1254	4.308	4.278-4.338	3.450e+03
	4.447	4.417-4.477	3.910e+03
	4.776	4.746-4.806	5.500e+03
	4.938	4.908-4.968	4.011e+03
7 Aroclor-1260	5.064	5.034-5.094	2.549e+03
	4.915	4.885-4.945	3.967e+03
	5.064	5.034-5.094	4.809e+03
	5.381	5.351-5.411	3.680e+03
8 Aroclor-1262	5.588	5.558-5.618	3.826e+03
	6.019	5.989-6.049	5.994e+03
	4.915	4.885-4.945	3.276e+03
	5.064	5.034-5.094	3.827e+03
9 Aroclor-1268	5.381	5.351-5.411	5.446e+03
	5.587	5.557-5.617	5.047e+03
	6.017	5.987-6.047	7.196e+03
	6.014	5.984-6.044	1.138e+04
M 10 Aroclor-Total	6.047	6.017-6.077	1.041e+04
	6.225	6.195-6.255	8.192e+03
	6.422	6.392-6.452	4.057e+03
	6.650	6.620-6.680	2.464e+04
\$ 11 4cmx	1.000	0.980-1.020	
\$ 12 Decachlorobiphenyl	2.482	2.452-2.512	8.247e+04
13 4,4'-DDT	6.832	6.802-6.862	6.164e+04
14 4,4'-DDD	5.323	5.303-5.343	1.460e+04
15 4,4'-DDE	5.102	5.082-5.122	1.001e+05
	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/022610.b/ECD8-F-8082-020310a.m  
 Cal Date : 26-Feb-2010 12:24 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 Level 1	250.000 Level 2	500.000 Level 3	1000.000 Level 4	4000.000 Level 5	RRF	% RSD
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/022610.b/ECD8-F-8082-020310a.m  
 Cal Date : 26-Feb-2010 12:24 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
M 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/022610.b/ECD8-B-8082-020310a.m  
 Cal Date : 26-Feb-2010 12:24 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/022610.b/ECD8-B-8082-020310a.m  
 Cal Date : 26-Feb-2010 12:24 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.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0545  
 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	4358.338	0.01	-4.2	15.0
(2)	5610.061	5287.491	0.01	-5.7	15.0
(3)	2392.299	2206.024	0.01	-7.8	15.0
(4)	2140.620	1982.006	0.01	-7.4	15.0
(5)	3099.161	2808.624	0.01	-9.4	15.0
Aroclor-1260	6475.551	5742.526	0.01	-11.3	15.0
(2)	9548.264	8718.592	0.01	-8.7	15.0
(3)	5665.674	5101.723	0.01	-10.0	15.0
(4)	5904.028	5405.972	0.01	-8.4	15.0
(5)	6228.823	5717.283	0.01	-8.2	15.0
4cmx	126009.40	129725.98	0.01	2.9	15.0
Decachlorobiphenyl	90318.109	81396.680	0.01	-9.9	15.0

FORM VII PEST



FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0545  
 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	3791.039	0.01	4.7	15.0
(2)	2410.146	2613.897	0.01	8.4	15.0
(3)	1453.120	1522.904	0.01	4.8	15.0
(4)	1433.781	1484.926	0.01	3.6	15.0
(5)	1958.294	2085.116	0.01	6.5	15.0
Aroclor-1260	3966.597	4237.002	0.01	6.8	15.0
(2)	4809.043	5030.510	0.01	4.6	15.0
(3)	3679.792	3833.209	0.01	4.2	15.0
(4)	3825.801	3969.392	0.01	3.8	15.0
(5)	5993.805	5936.060	0.01	-1.0	15.0
4cmx	82474.964	92602.510	0.01	12.3	15.0
Decachlorobiphenyl	61637.648	56388.210	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.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0946  
 Lab File ID: 020F2001 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	4376.930	0.01	-3.8	15.0
(2)	5610.061	5308.816	0.01	-5.4	15.0
(3)	2392.299	2269.304	0.01	-5.1	15.0
(4)	2140.620	2003.889	0.01	-6.4	15.0
(5)	3099.161	2934.808	0.01	-5.3	15.0
Aroclor-1260	6475.551	5939.494	0.01	-8.3	15.0
(2)	9548.264	8985.182	0.01	-5.9	15.0
(3)	5665.674	5274.578	0.01	-6.9	15.0
(4)	5904.028	5536.758	0.01	-6.2	15.0
(5)	6228.823	5855.406	0.01	-6.0	15.0
4cmx	126009.40	127461.40	0.01	1.2	15.0
Decachlorobiphenyl	90318.109	84807.990	0.01	-6.1	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.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 0946  
 Lab File ID: 020B2001 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	3546.726	0.01	-2.0	15.0
(2)	2410.146	2453.926	0.01	1.8	15.0
(3)	1453.120	1435.155	0.01	-1.2	15.0
(4)	1433.781	1396.297	0.01	-2.6	15.0
(5)	1958.294	1959.471	0.01	0.1	15.0
Aroclor-1260	3966.597	4014.450	0.01	1.2	15.0
(2)	4809.043	4847.910	0.01	0.8	15.0
(3)	3679.792	3722.794	0.01	1.2	15.0
(4)	3825.801	3874.644	0.01	1.3	15.0
(5)	5993.805	6022.160	0.01	0.5	15.0
4cmx	82474.964	86941.010	0.01	5.4	15.0
Decachlorobiphenyl	61637.648	60486.330	0.01	-1.9	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1214  
 Lab File ID: 032F3201 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	4581.042	0.01	0.6	15.0
(2)	5610.061	5623.769	0.01	0.2	15.0
(3)	2392.299	2387.192	0.01	-0.2	15.0
(4)	2140.620	2100.568	0.01	-1.9	15.0
(5)	3099.161	3139.667	0.01	1.3	15.0
Aroclor-1260	6475.551	6437.027	0.01	-0.6	15.0
(2)	9548.264	9742.545	0.01	2.0	15.0
(3)	5665.674	5657.861	0.01	-0.1	15.0
(4)	5904.028	5861.916	0.01	-0.7	15.0
(5)	6228.823	6138.746	0.01	-1.4	15.0
4cmx	126009.40	132723.95	0.01	5.3	15.0
Decachlorobiphenyl	90318.109	86212.040	0.01	-4.5	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.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1214  
 Lab File ID: 032B3201 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	3569.150	0.01	-1.4	15.0
(2)	2410.146	2471.877	0.01	2.6	15.0
(3)	1453.120	1443.549	0.01	-0.6	15.0
(4)	1433.781	1409.558	0.01	-1.7	15.0
(5)	1958.294	1975.692	0.01	0.9	15.0
Aroclor-1260	3966.597	4026.294	0.01	1.5	15.0
(2)	4809.043	4862.334	0.01	1.1	15.0
(3)	3679.792	3715.523	0.01	1.0	15.0
(4)	3825.801	3862.869	0.01	1.0	15.0
(5)	5993.805	6034.066	0.01	0.7	15.0
=====	=====	=====	=====	=====	=====
4cmx	82474.964	87408.510	0.01	6.0	15.0
Decachlorobiphenyl	61637.648	60945.450	0.01	-1.1	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.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1443  
 Lab File ID: 044F4401 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	4541.078	0.01	-0.2	15.0
(2)	5610.061	5823.408	0.01	3.8	15.0
(3)	2392.299	2433.859	0.01	1.7	15.0
(4)	2140.620	2072.037	0.01	-3.2	15.0
(5)	3099.161	3105.422	0.01	0.2	15.0
Aroclor-1260	6475.551	6251.870	0.01	-3.4	15.0
(2)	9548.264	9416.695	0.01	-1.4	15.0
(3)	5665.674	5516.477	0.01	-2.6	15.0
(4)	5904.028	5745.471	0.01	-2.7	15.0
(5)	6228.823	6132.996	0.01	-1.5	15.0
4cmx	126009.40	132335.38	0.01	5.0	15.0
Decachlorobiphenyl	90318.109	87045.170	0.01	-3.6	15.0

FORM VII PEST

FORM 7  
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908  
 Instrument ID: ECD8A Calibration Date: 02/26/10 Time: 1443  
 Lab File ID: 044B4401 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	3880.770	0.01	7.2	15.0
(2)	2410.146	2552.860	0.01	5.9	15.0
(3)	1453.120	1518.342	0.01	4.5	15.0
(4)	1433.781	1475.125	0.01	2.9	15.0
(5)	1958.294	2071.200	0.01	5.8	15.0
Aroclor-1260	3966.597	4204.079	0.01	6.0	15.0
(2)	4809.043	5071.798	0.01	5.5	15.0
(3)	3679.792	3870.315	0.01	5.2	15.0
(4)	3825.801	4037.144	0.01	5.5	15.0
(5)	5993.805	6271.605	0.01	4.6	15.0
4cmx	82474.964	90104.310	0.01	9.2	15.0
Decachlorobiphenyl	61637.648	62928.980	0.01	2.1	15.0

FORM VII PEST

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/002f0201.d

Lab Smp Id: WAR100225-60 01

Client Smp ID: AR166001

Inj Date : 26-FEB-2010 05:45

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 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

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	12972598 100.000	103	80.00- 120.00	100.00
-----						
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3		
6.245	6.245	0.000	8139668 100.000	90.1	80.00- 120.00	100.00
-----						
1 Aroclor-1016				CAS #: 12674-11-2		
2.810	2.810	0.000	4358338 1000.00	958	80.00- 120.00	100.00
3.161	3.161	0.000	5287491 1000.00	942	101.29- 141.29	121.32
3.305	3.305	0.000	2206024 1000.00	922	31.85- 71.85	50.62
3.397	3.397	0.000	1982006 1000.00	926	25.78- 65.78	45.48
3.560	3.560	0.000	2808623 1000.00	906	47.05- 87.05	64.44
Average of Peak Amounts =				931		
-----						
7 Aroclor-1260				CAS #: 11096-82-5		
4.434	4.434	0.000	5742526 1000.00	887	80.00- 120.00	100.00
4.630	4.630	0.000	8718591 1000.00	913	131.28- 171.28	151.83
4.905	4.905	0.000	5101723 1000.00	900	68.81- 108.81	88.84
5.077	5.077	0.000	5405971 1000.00	916	73.22- 113.22	94.14
5.488	5.488	0.000	5717283 1000.00	918	78.58- 118.58	99.56
Average of Peak Amounts =				907		
-----						



Data File: /chem/ecob8a.i/022610.b/002f0201.d

Date : 26-FEB-2010 05:45

Client ID: AR166001

Sample Info: IWR100225-60 01

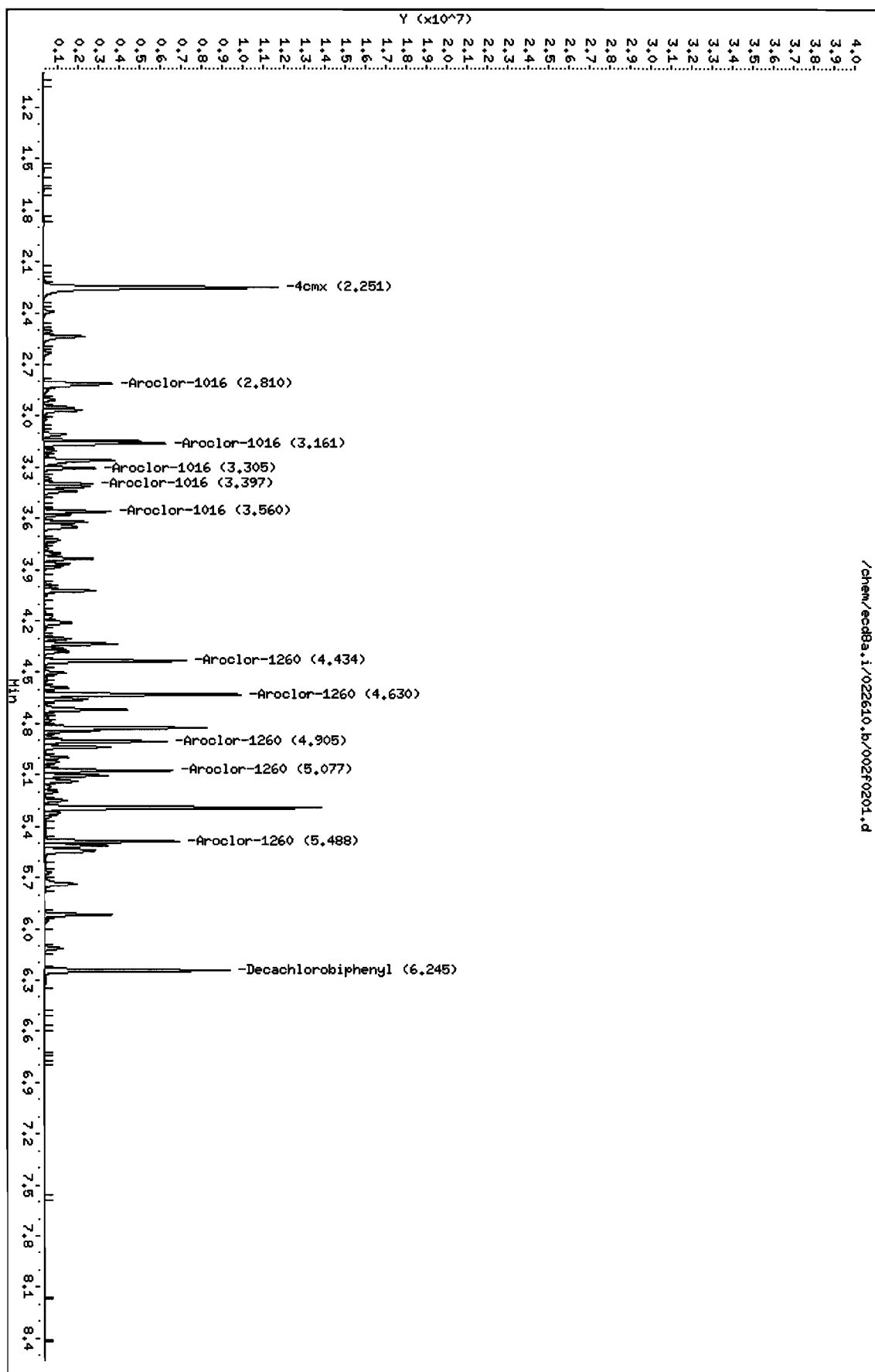
Page 1

Column phase: CLP1

Instrument: ecob8a.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/022610.b/002b0201.d

Lab Smp Id: WAR100225-60 01 Client Smp ID: AR166001

Inj Date : 26-FEB-2010 05:45

Operator : JAOC Inst ID: ecd8a.i

Smp Info : |WAR100225-60 01

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 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	9260251	100.000	112	80.00- 120.00	100.00	
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	5638821	100.000	91.5	80.00- 120.00	100.00	
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
3.555	3.555	0.000	3791038	1000.00	1050	80.00- 120.00	100.00	
3.654	3.654	0.000	2613896	1000.00	1080	49.19- 89.19	68.95	
3.730	3.730	0.000	1522904	1000.00	1050	20.46- 60.46	40.17	
3.805	3.805	0.000	1484926	1000.00	1040	19.37- 59.37	39.17	
4.002	4.002	0.000	2085116	1000.00	1060	35.25- 75.25	55.00	
Average of Peak Amounts =					1.06e+03			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4237002	1000.00	1070	80.00- 120.00	100.00	
5.064	5.064	0.000	5030509	1000.00	1050	100.76- 140.76	118.73	
5.381	5.381	0.000	3833208	1000.00	1040	72.73- 112.73	90.47	
5.588	5.588	0.000	3969391	1000.00	1040	76.52- 116.52	93.68	
6.019	6.019	0.000	5936059	1000.00	990	130.01- 170.01	140.10	
Average of Peak Amounts =					1.04e+03			
-----								

Data File: /chem/ecob8a.i/022610.b/002b0201.d

Date: 26-FEB-2010 05:45

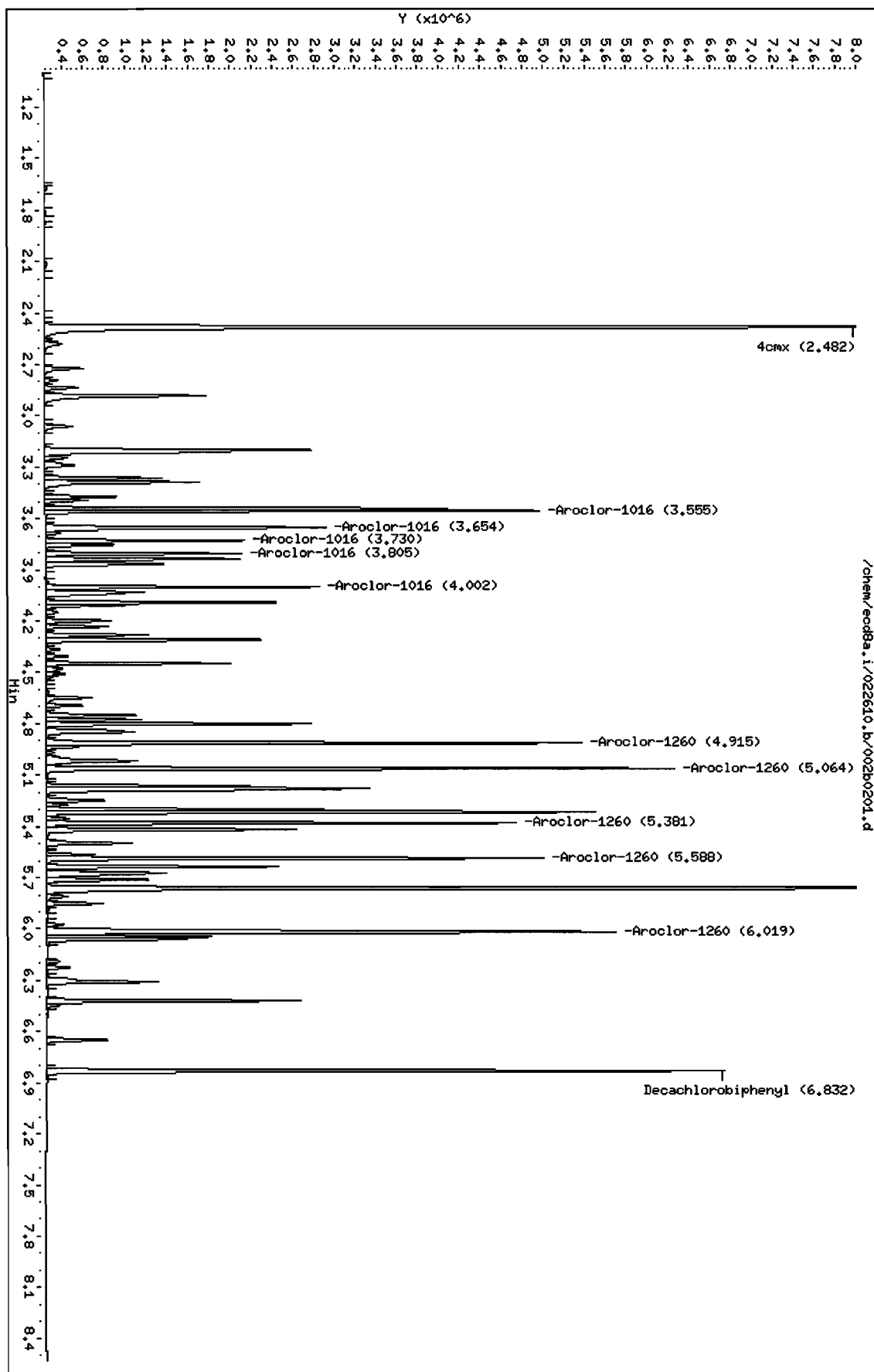
Client ID: AR16001

Sample Info: IWR100225-60 01

Page 1

Column phase: CLP2

Instrument: ecob8a.i  
Operator: JADC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/003f0301.d  
Report Date: 26-Feb-2010 12:04

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/003f0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 26-FEB-2010 05:57

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 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

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
6 Aroclor-1254						
3.835	3.835	0.000	4835639 1000.00	1010	80.00~ 120.00	100.00
4.022	4.022	0.000	6599677 1000.00	1000	116.48~ 156.48	136.48
4.218	4.218	0.000	5211745 1000.00	1010	87.78~ 127.78	107.78
4.305	4.305	0.000	8793882 1000.00	1000	161.86~ 201.86	181.86
4.500	4.500	0.000	6666861 1000.00	964	117.87~ 157.87	137.87
Average of Peak Amounts =				999		

Data File: /chem/ecod8a.i/022610.b/003f0301.d

Date: 26-FEB-2010 05:57

Client ID: AR125401

Sample Info: IWR100201-54

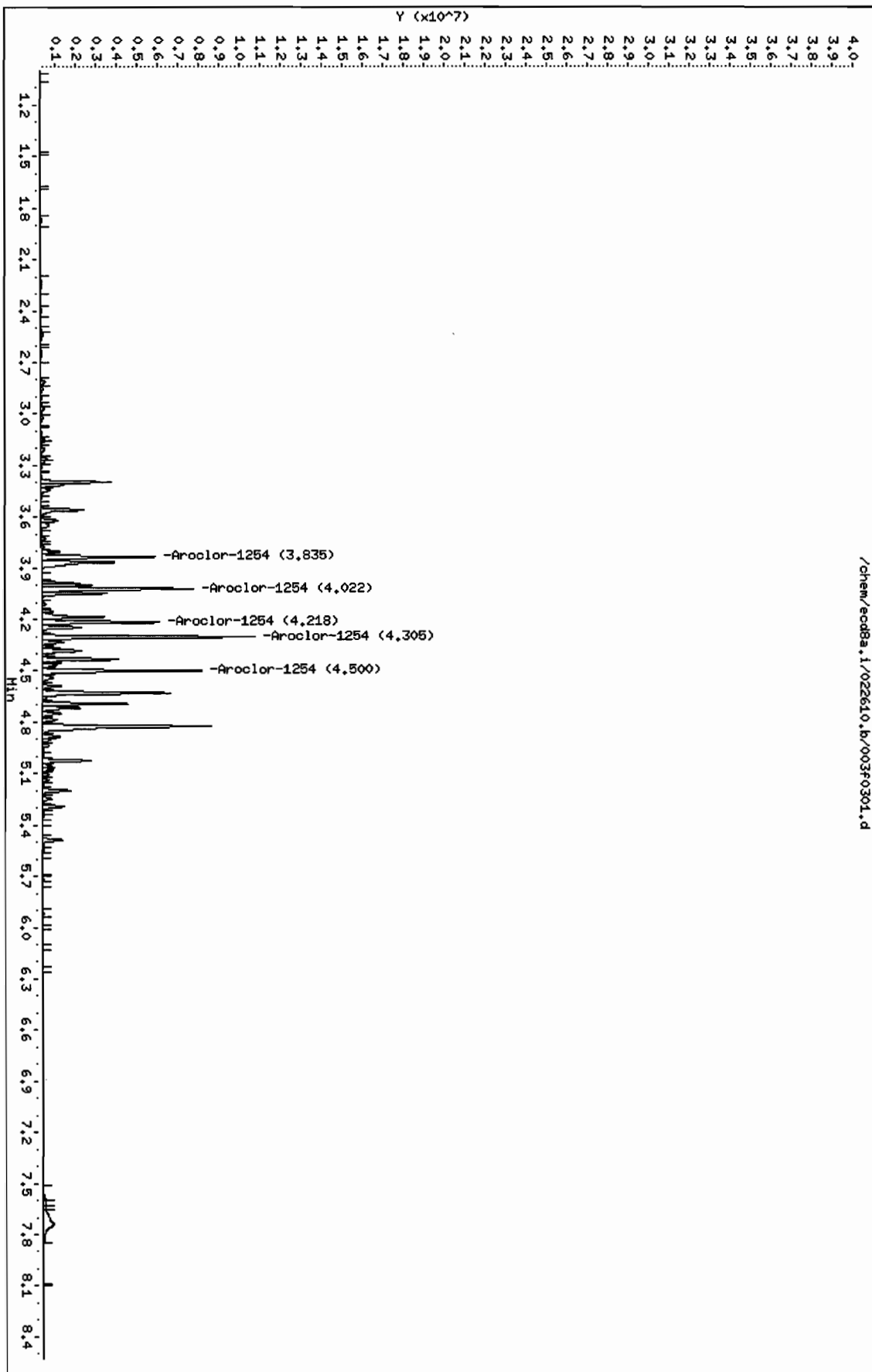
Column phase: CLP1

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Instrument: ecod8a.1

Operator: JHOC

Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/003b0301.d  
Report Date: 26-Feb-2010 12:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/003b0301.d

Lab Smp Id: WAR100201-54

Client Smp ID: AR125401

Inj Date : 26-FEB-2010 05:57

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100201-54

Misc Info : |1254

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 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

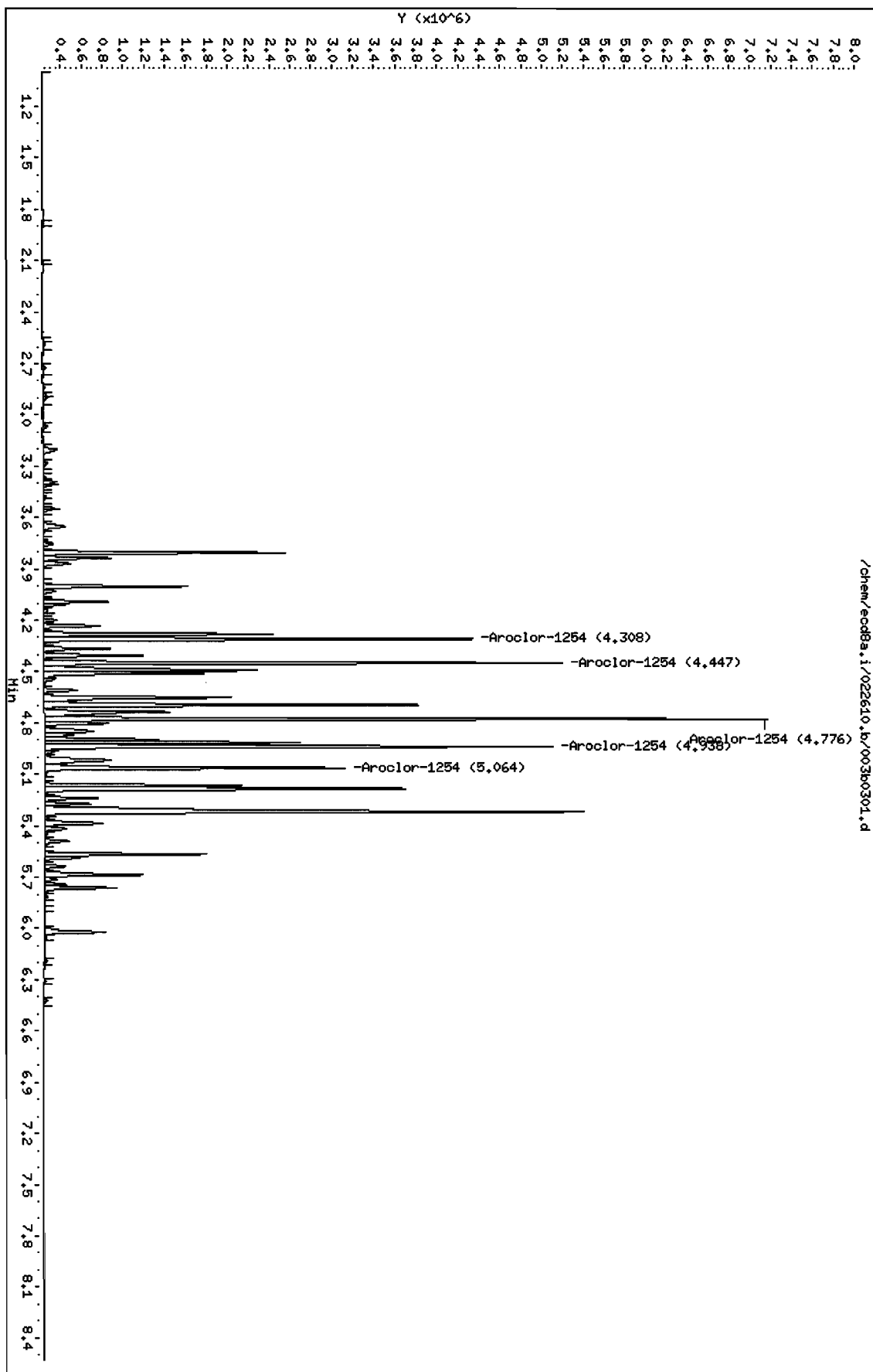
AMOUNTS

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	3508193 1000.00	1020	80.00- 120.00	100.00
4.447	4.447	0.000	3945244 1000.00	1010	92.46- 132.46	112.46
4.776	4.776	0.000	5583156 1000.00	1020	139.15- 179.15	159.15
4.938	4.938	0.000	3962383 1000.00	988	92.95- 132.95	112.95
5.064	5.064	0.000	2525600 1000.00	991	51.99- 91.99	71.99
Average of Peak Amounts =			1e+03			

Data File: /chem/ecdb8a.i/022610.b/00360301.d  
Date: 26-FEB-2010 05:57  
Client ID: AR125401  
Sample Info: 1MAR100201-54  
Column phase: CLP2

Instrument: ecdb8a.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/022610.b/004f0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 26-FEB-2010 06:09

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 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						
2.809	2.809	0.000	4184666	1000.00	1050 80.00- 120.00	100.00
3.161	3.161	0.000	5101332	1000.00	1060 101.91- 141.91	121.91
3.397	3.397	0.000	1878051	1000.00	1040 24.88- 64.88	44.88
3.414	3.414	0.000	2040310	1000.00	1080 28.76- 68.76	48.76
3.559	3.559	0.000	2834101	1000.00	1070 47.73- 87.73	67.73
Average of Peak Amounts =			1.06e+03			



Data File: /chem/ecob8a.i/022610.b/004f0401.d

Date : 26-FEB-2010 06:09

Client ID: AR124201

Sample Info: IWR091217-42

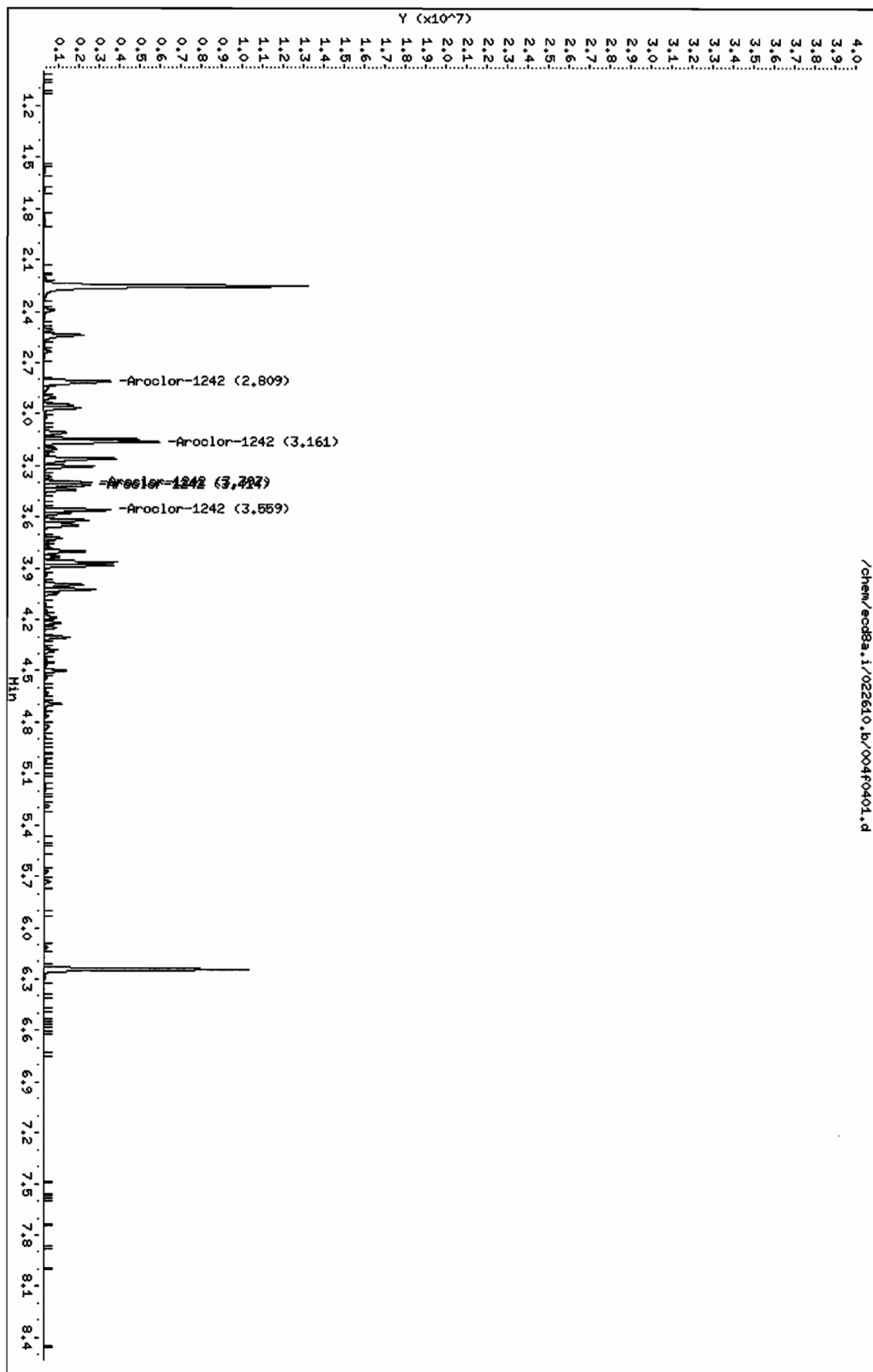
Column phase: CLP1

Instrument: ecob8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/004b0401.d  
Report Date: 26-Feb-2010 12:04

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/004b0401.d

Lab Smp Id: WAR091217-42

Client Smp ID: AR124201

Inj Date : 26-FEB-2010 06:09

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-42

Misc Info : |1242

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 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	
3.202	3.202	0.000	2842521 1000.00	1060	80.00- 120.00	100.00
3.555	3.555	0.000	3336210 1000.00	1070	97.37- 137.37	117.37
3.654	3.654	0.000	2289638 1000.00	1080	60.55- 100.55	80.55
4.002	4.002	0.000	1822113 1000.00	1070	44.10- 84.10	64.10
4.092	4.092	0.000	1711192 1000.00	1090	40.20- 80.20	60.20
Average of Peak Amounts =			1.07e+03			

Data File: /chem/ecdb8a.i/022610.b/004b0401.d

Date: 26-FEB-2010 06:09

Client ID: AR124201

Sample Info: 14AR091217-42

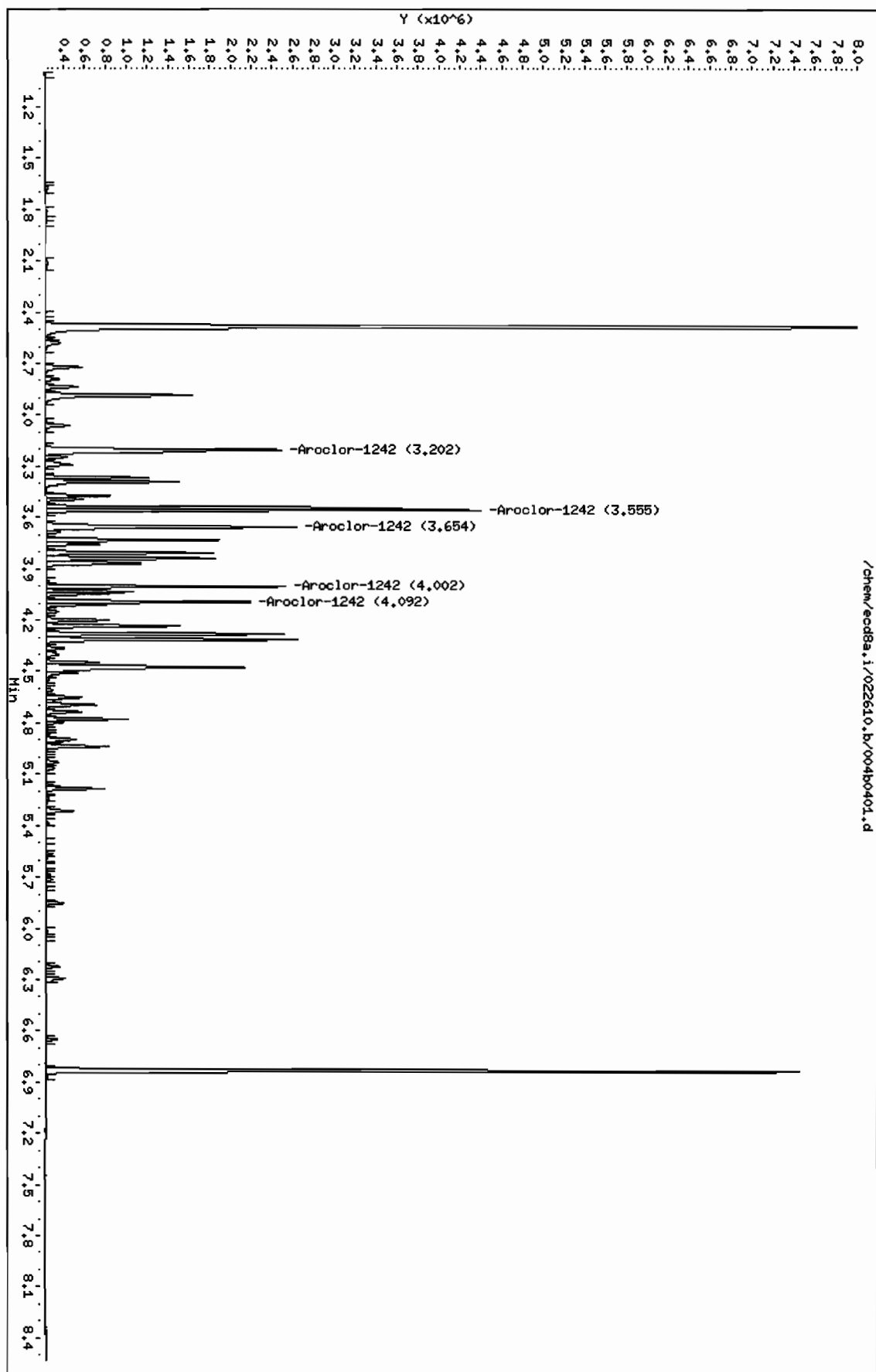
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Instrument: ecdb8a.i

Operator: JROC

Column diameter: 0.25

Column phase: CLP2



Data File: /chem/ecd8a.i/022610.b/005f0501.d  
Report Date: 26-Feb-2010 12:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/005f0501.d

Lab Smp Id: WAR091217-48

Client Smp ID: AR124801

Inj Date : 26-FEB-2010 06:22

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR091217-48

Misc Info : |1248

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 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

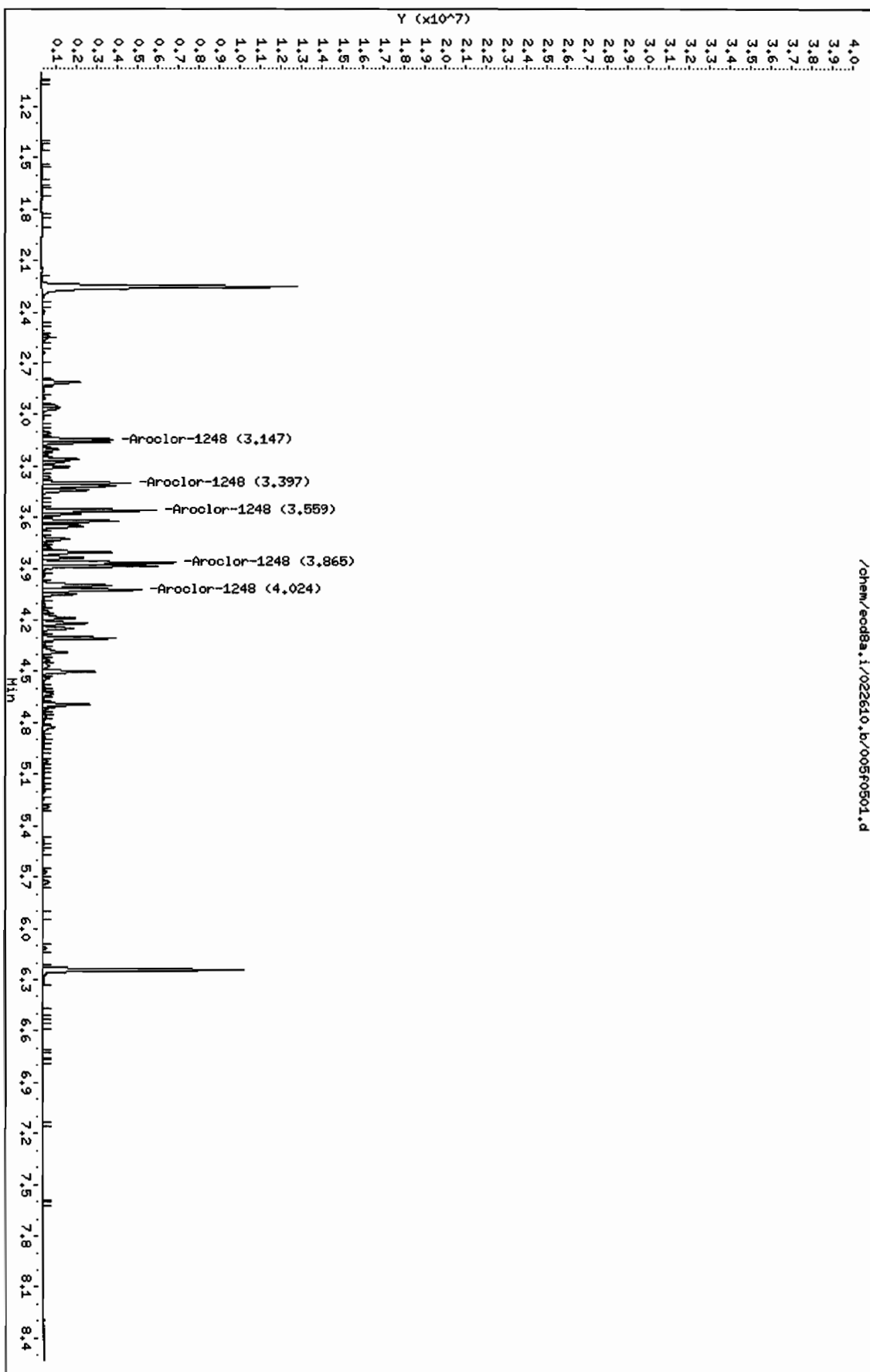
AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
5 Aroclor-1248					CAS #: 12672-29-6	
3.147	3.147	0.000	2655392 1000.00	888	80.00- 120.00	100.00
3.397	3.397	0.000	3524176 1000.00	922	112.72- 152.72	132.72
3.559	3.559	0.000	4692672 1000.00	938	156.72- 196.72	176.72
3.865	3.865	0.000	5693646 1000.00	950	194.42- 234.42	214.42
4.024	4.024	0.000	4582267 1000.00	949	152.56- 192.56	172.56
Average of Peak Amounts =				930		

Data File: /chem/ecodba.i/022610.b/005f0501.d  
Date: 26-FEB-2010 06:22  
Client ID: AR124801  
Sample Info: 1MAR091217-48  
Column phase: CLP1

Instrument: ecodba.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/022610.b/005b0501.d  
 Lab Smp Id: WAR091217-48 Client Smp ID: AR124801  
 Inj Date : 26-FEB-2010 06:22  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |WAR091217-48  
 Misc Info : |1248  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 10:02 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							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		( ug/L)		RATIO
==	=====	=====	=====	=====	=====	=====	=====
5 Aroclor-1248			CAS #: 12672-29-6				
3.654	3.654	0.000	1421101	1000.00	996	80.00- 120.00	100.00
3.805	3.805	0.000	2390284	1000.00	969	148.20- 188.20	168.20
4.002	4.002	0.000	3013422	1000.00	975	192.05- 232.05	212.05
4.279	4.279	0.000	3539644	1000.00	970	229.08- 269.08	249.08
4.312	4.312	0.000	3911417	1000.00	977	255.24- 295.24	275.24
Average of Peak Amounts =			978				

Data File: /chem/ecod8a.i/022610.b/005b0501.d

Date : 26-FEB-2010 06:22

Client ID: AR424801

Sample Info: IMAR091217-48

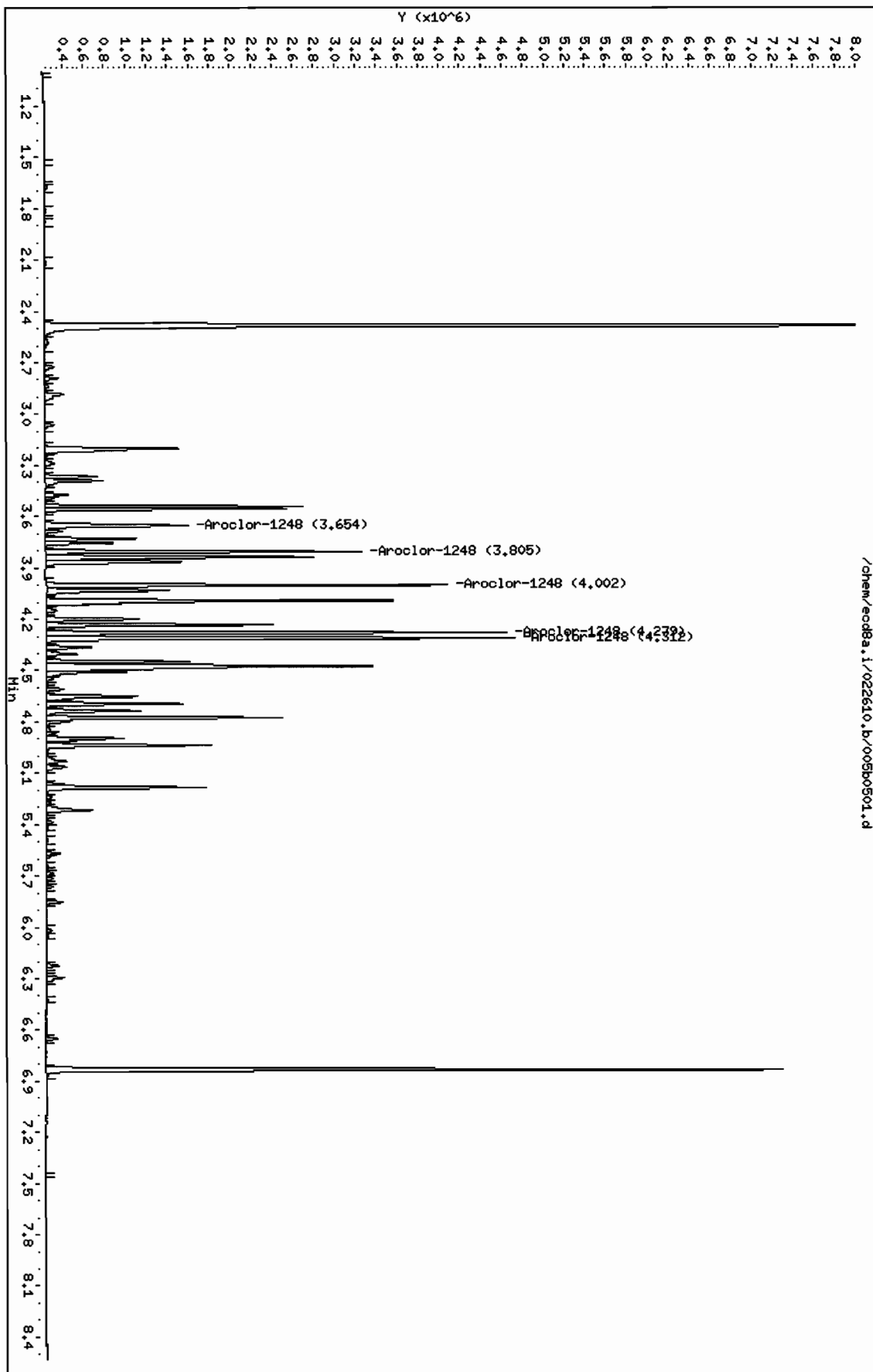
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Column phase: CLP2

Instrument: ecod8a.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/022610.b/006f0601.d  
 Lab Smp Id: WAR100104-32 Client Smp ID: AR123201  
 Inj Date : 26-FEB-2010 06:34  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |WAR100104-32  
 Misc Info : |1232  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
 Meth Date : 26-Feb-2010 10:03 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	2492597	1000.00	958	80.00-	120.00	100.00 (M)
2.809	2.809	0.000	2216725	1000.00	980	68.93-	108.93	88.93
3.305	3.305	0.000	1163068	1000.00	935	26.66-	66.66	46.66
3.559	3.559	0.000	1433295	1000.00	969	37.50-	77.50	57.50
3.621	3.621	0.000	879222	1000.00	953	15.27-	55.27	35.27
Average of Peak Amounts =					959			

QC Flag Legend

M - Compound response manually integrated.



Data File: /chem/ecob8a.i/022610.b/006f0601.d

Date : 26-FEB-2010 06:34

Client ID: AR123201

Sample Info: IWR100104-32

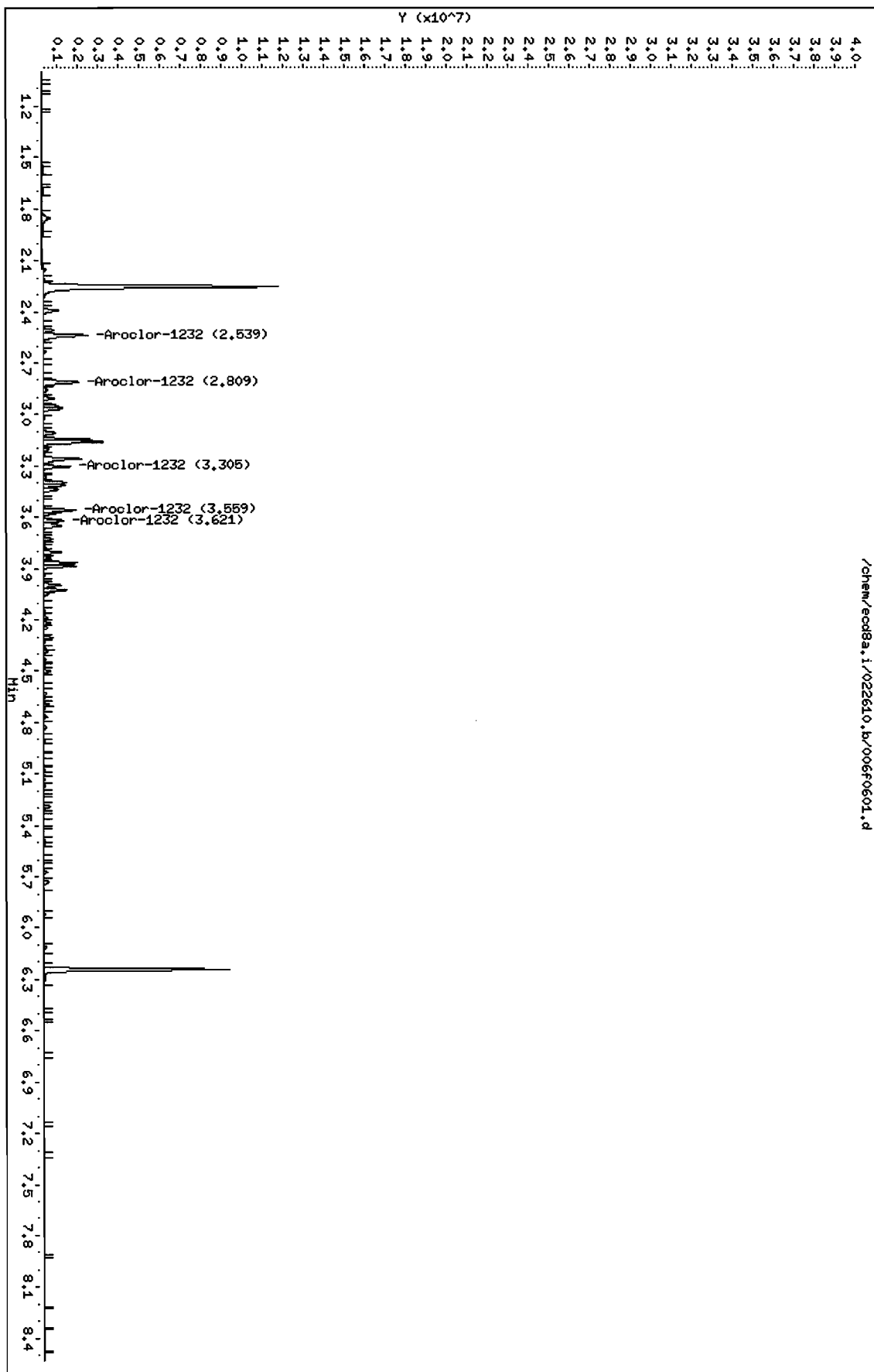
Column phase: CLP1

Instrument: ecob8a.i

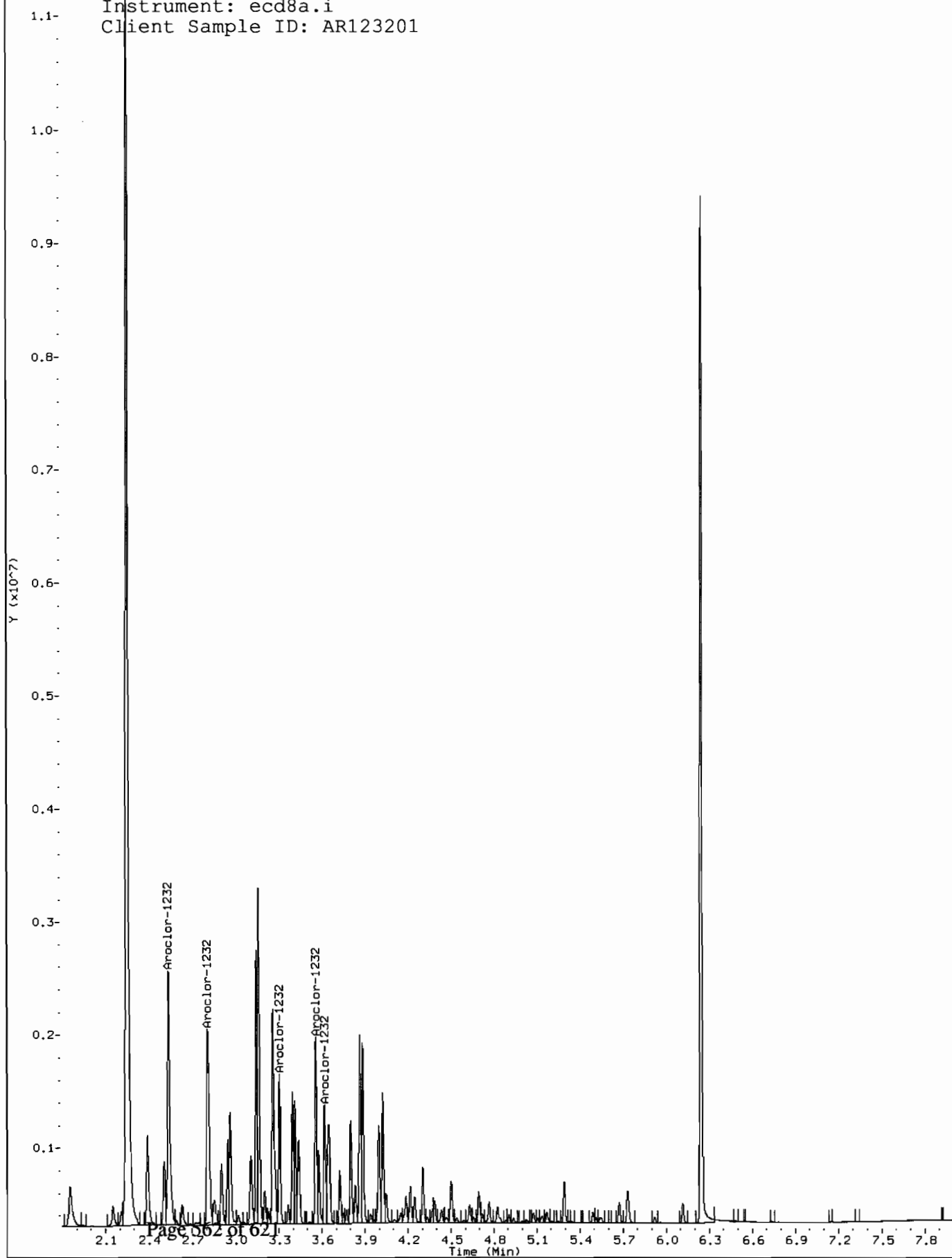
Operator: JADC

Column diameter: 0.25

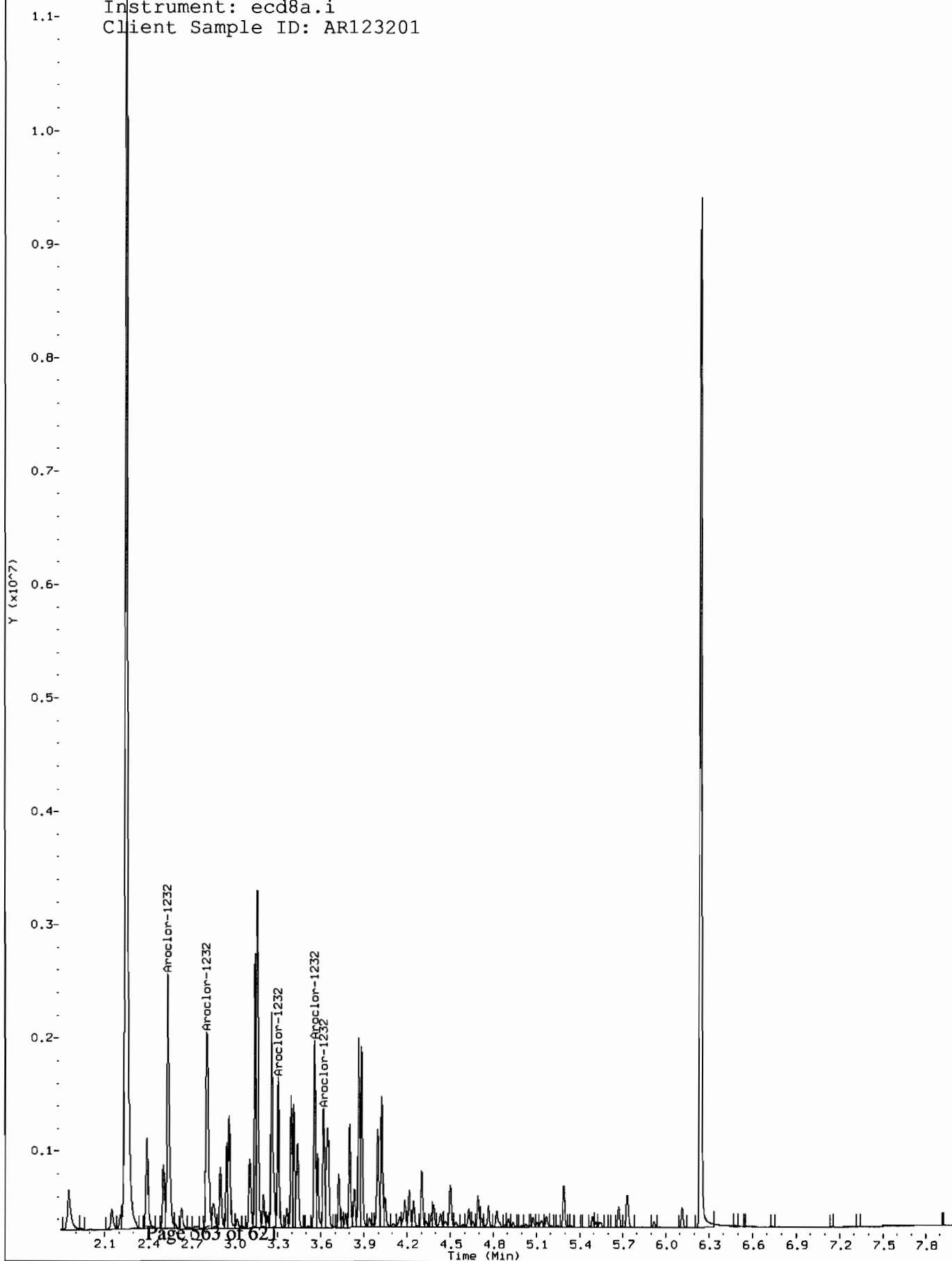
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Comment: Manually Integrated  
Data File: /chem/ecd8a.i/022610.b/006f0601.d  
Operator: JAOC  
Injection Date: 26-FEB-2010 06:34  
Instrument: ecd8a.i  
Client Sample ID: AR123201



Comment: Before manual integration  
Data File: /chem/ecd8a.i/022610.b/orig-006f0601.d  
Operator: JAOC  
Injection Date: 26-FEB-2010 06:34  
Instrument: ecd8a.i  
Client Sample ID: AR123201



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/006b0601.d

Lab Smp Id: WAR100104-32

Client Smp ID: AR123201

Inj Date : 26-FEB-2010 06:34

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-32

Misc Info : |1232

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 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			
3.202	3.202	0.000	1585588	1000.00	1050	80.00- 120.00	100.00	
3.555	3.555	0.000	1775214	1000.00	1020	91.96- 131.96	111.96	
3.654	3.654	0.000	1232297	1000.00	1050	57.72- 97.72	77.72	
3.730	3.730	0.000	726461	1000.00	1020	25.82- 65.82	45.82	
3.805	3.805	0.000	634572	1000.00	1030	20.02- 60.02	40.02	
Average of Peak Amounts =					1.03e+03			

Data File: /chem/ecod8a.i/022610.b/00600601.d

Date : 26-FEB-2010 06:34

Client ID: AR123201

Sample Info: IWR100104-32

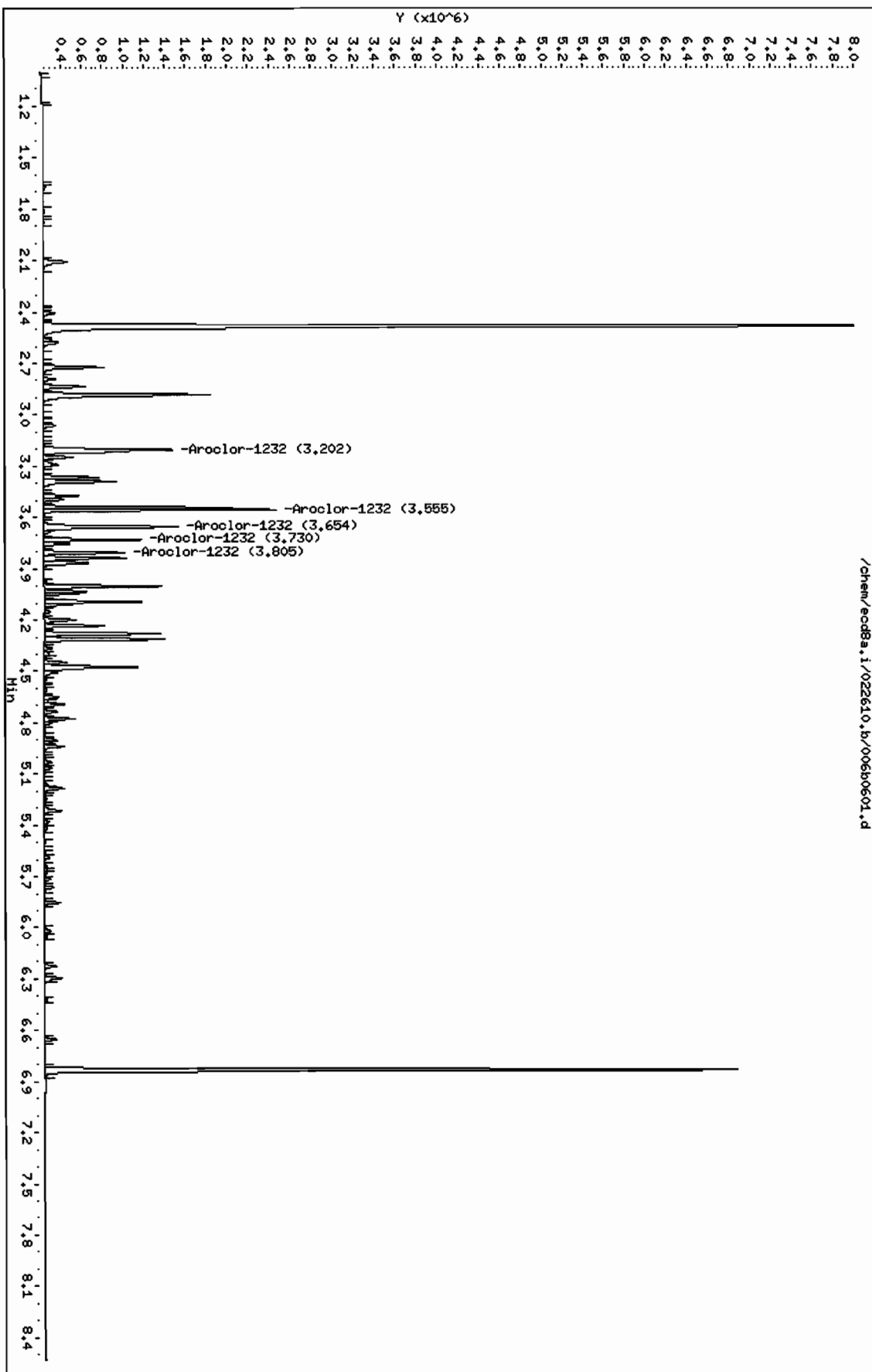
Column phase: CLP2

Instrument: ecod8a.i

Operator: JHOC

Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/007f0701.d  
Report Date: 26-Feb-2010 12:05

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/007f0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 26-FEB-2010 06:46

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 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

2.393	2.393	0.000	1575511	1000.00	1000 80.00- 120.00	100.00
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2.507	2.507	0.000	895097	1000.00	978 36.81- 76.81	56.81
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2.538	2.538	0.000	3600978	1000.00	1010 208.56- 248.56	228.56
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Average of Peak Amounts = 997

Data File: /chem/ecob8a.i/022610.b/007f0701.d

Date : 26-FEB-2010 06:46

Client ID: AR122101

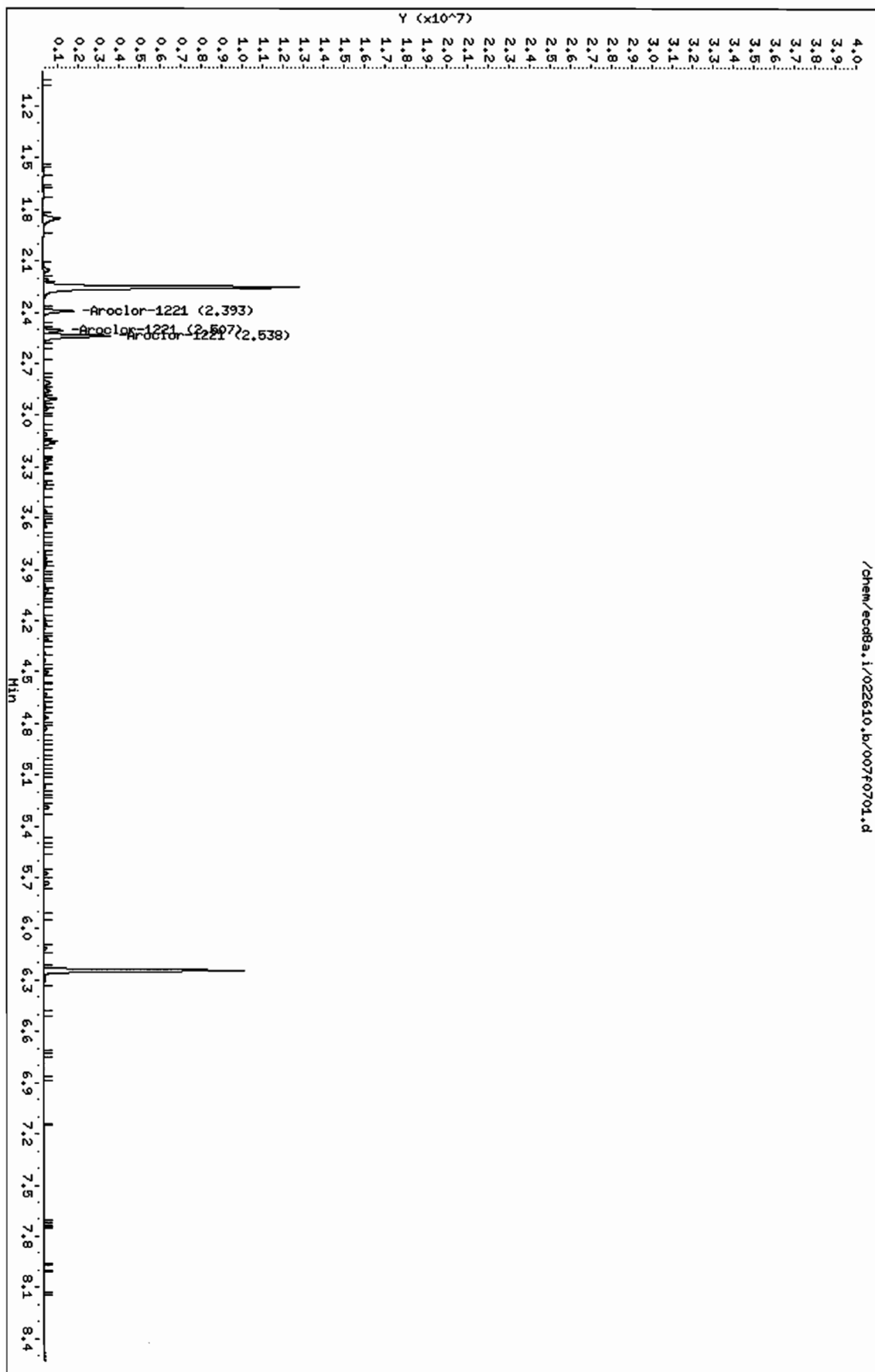
Sample Info: 14AR100104-21

Column phase: CLP1

Instrument: ecob8a.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/022610.b/007b0701.d

Lab Smp Id: WAR100104-21

Client Smp ID: AR122101

Inj Date : 26-FEB-2010 06:46

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100104-21

Misc Info : |1221

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 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

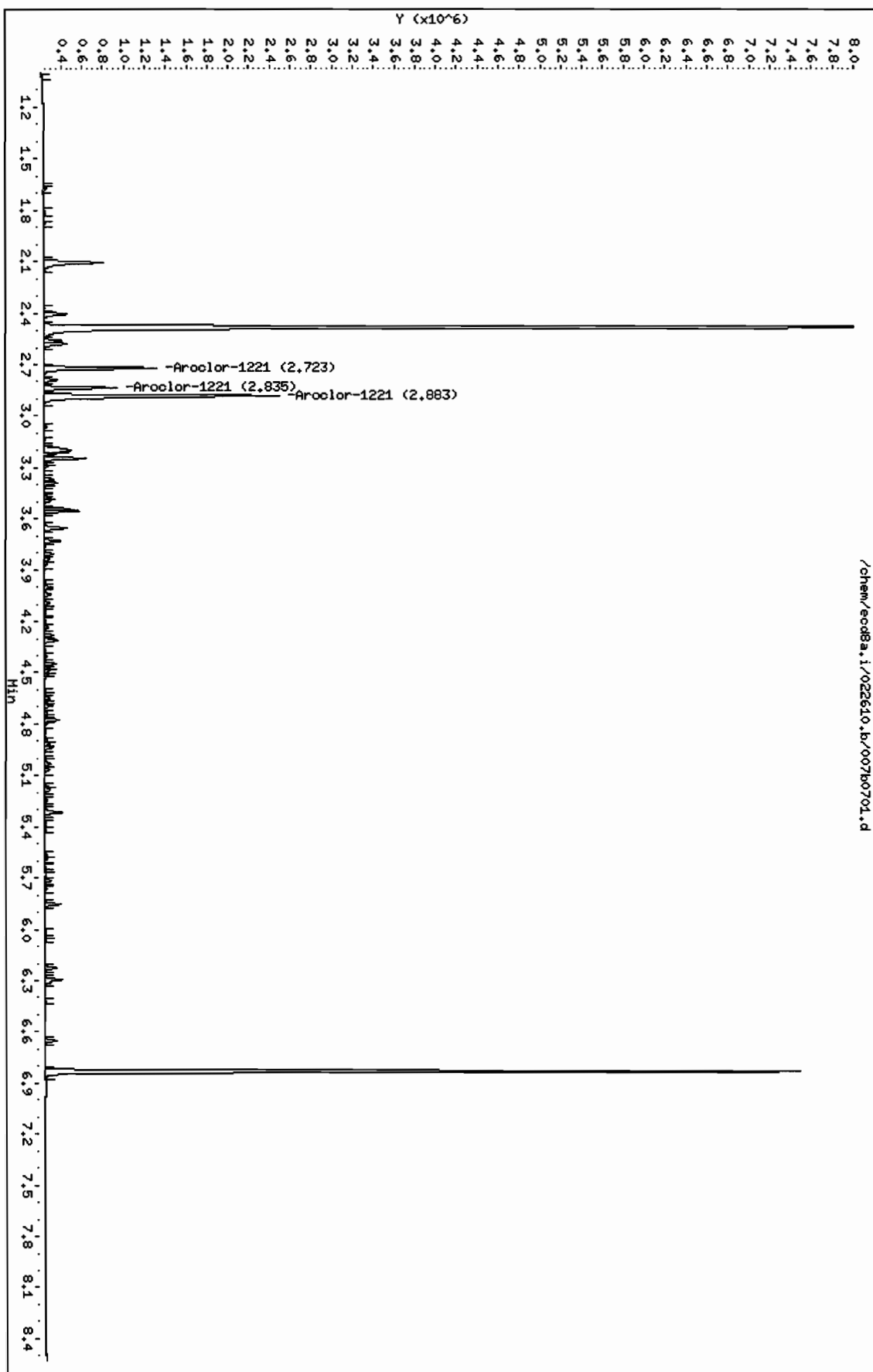
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	TARGET RANGE	RATIO
			RESPONSE ( ug/L)	( ug/L)			
==	=====	=====	=====	=====	=====	=====	=====
2 Aroclor-1221			CAS #: 11104-28-2				
2.723	2.723	0.000	979027	1000.00	1030	80.00- 120.00	100.00
2.835	2.835	0.000	611113	1000.00	1030	42.42- 82.42	62.42
2.883	2.883	0.000	2263116	1000.00	1040	211.16- 251.16	231.16
Average of Peak Amounts =			1.03e+03				



Data File: /chem/ecod8a.i/022610.b/007b0701.d  
Date: 26-FEB-2010 06:46  
Client ID: AR122101  
Sample Info: IWR100104-21  
Column phase: CLP2

Instrument: ecod8a.i  
Operator: JAOC  
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/022610.b/020f2001.d

Lab Smp Id: WAR100225-60 02

Client Smp ID: AR166002

Inj Date : 26-FEB-2010 09:46

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 10:03 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 20

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	RESPONSE ( ug/L)	CAL-AMT ( ug/L)	ON-COL ( ug/L)	TARGET RANGE	RATIO
11.4cmx							
2.250	2.251	-0.001	12746140	100.000	101	80.00- 120.00	100.00
CAS #: 877-09-8							
12	Decachlorobiphenyl						
6.241	6.245	-0.004	8480799	100.000	93.9	80.00- 120.00	100.00
CAS #: 2051-24-3							
1	Aroclor-1016						
2.807	2.810	-0.003	4376930	1000.00	962	80.00- 120.00	100.00
3.159	3.161	-0.002	5308815	1000.00	946	101.29- 141.29	121.29
3.302	3.305	-0.003	2269304	1000.00	948	31.85- 71.85	51.85
3.395	3.397	-0.002	2003889	1000.00	936	25.78- 65.78	45.78
3.557	3.560	-0.003	2934807	1000.00	947	47.05- 87.05	67.05
Average of Peak Amounts =					948		
7	Aroclor-1260						
4.430	4.434	-0.004	5939494	1000.00	917	80.00- 120.00	100.00
4.627	4.630	-0.003	8985182	1000.00	941	131.28- 171.28	151.28
4.902	4.905	-0.003	5274578	1000.00	931	68.81- 108.81	88.81
5.075	5.077	-0.002	5536757	1000.00	938	73.22- 113.22	93.22
5.485	5.488	-0.003	5855405	1000.00	940	78.58- 118.58	98.58
Average of Peak Amounts =					933		

Data File: /chem/eod8a.i/022610.b/020f2001.d

Date: 26-FEB-2010 09:46

Client ID: AR166002

Sample Info: IWR100225-60 02

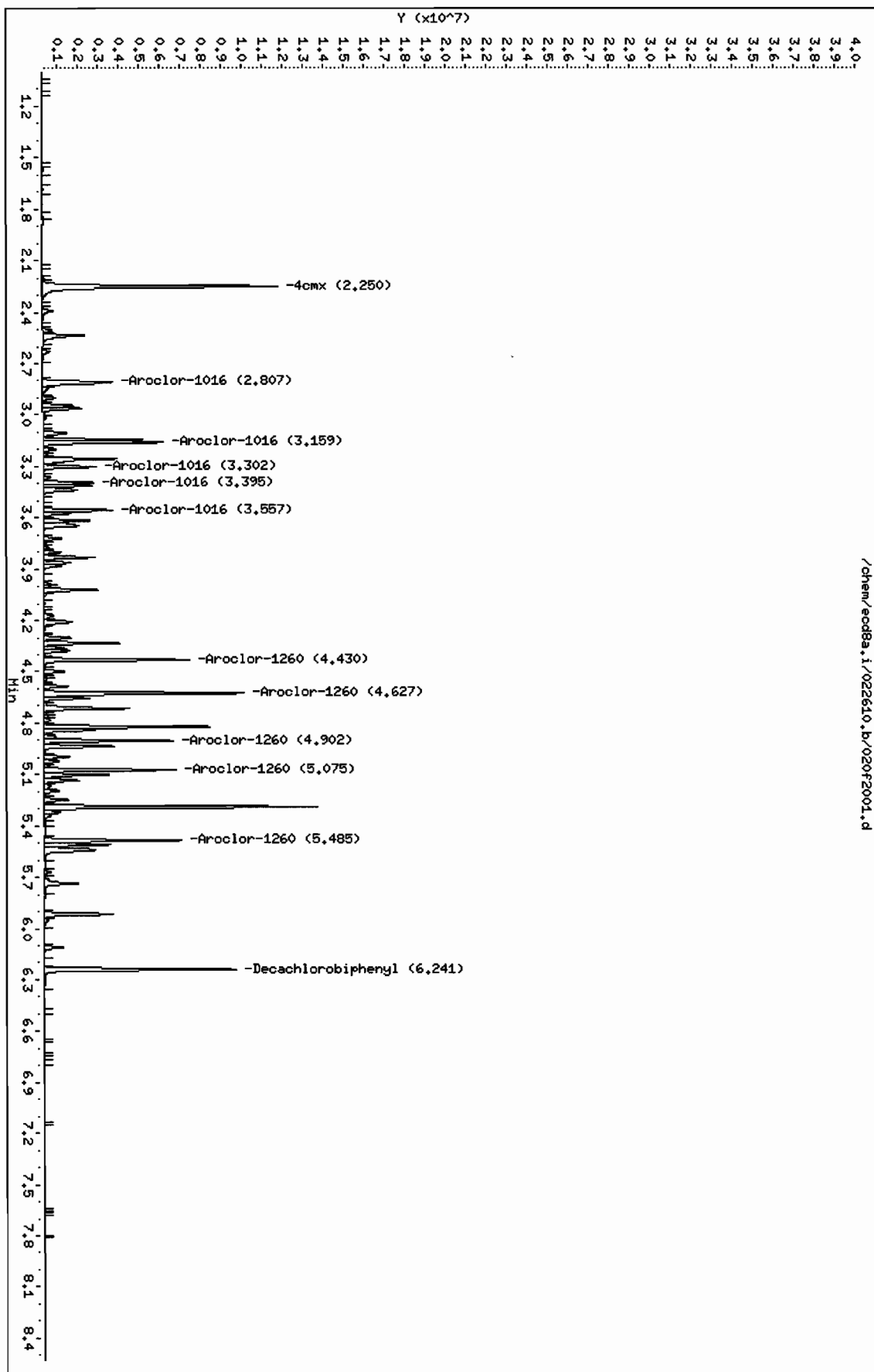
Page 1

Instrument: eod8a.i

Operator: JHOC

Column diameter: 0.25

Column phase: CLP1



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/020b2001.d

Lab Smp Id: WAR100225-60 02

Client Smp ID: AR166002

Inj Date : 26-FEB-2010 09:46

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 02

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017b1701.d

Als bottle: 20

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

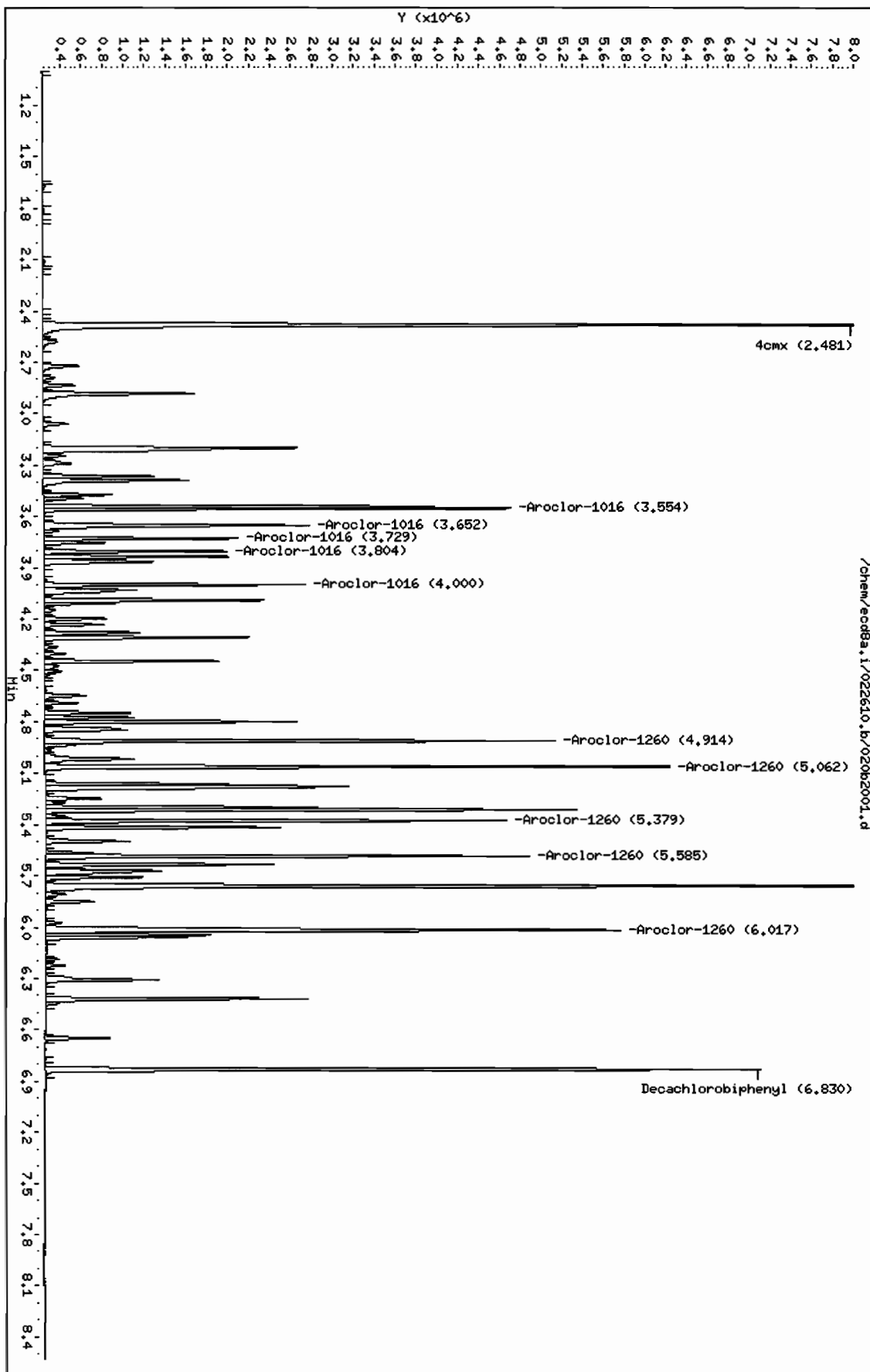
AMOUNTS

			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.481	2.482	-0.001	8694101	100.000	105	80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.830	6.832	-0.002	6048633	100.000	98.1	80.00- 120.00	100.00
-----							
1 Aroclor-1016					CAS #: 12674-11-2		
3.554	3.555	-0.001	3546726	1000.00	980	80.00- 120.00	100.00
3.652	3.654	-0.002	2453926	1000.00	1020	49.19- 89.19	69.19
3.729	3.730	-0.001	1435155	1000.00	988	20.46- 60.46	40.46
3.804	3.805	-0.001	1396297	1000.00	974	19.37- 59.37	39.37
4.000	4.002	-0.002	1959471	1000.00	1000	35.25- 75.25	55.25
Average of Peak Amounts =					992		
-----							
7 Aroclor-1260					CAS #: 11096-82-5		
4.914	4.915	-0.001	4014450	1000.00	1010	80.00- 120.00	100.00
5.062	5.064	-0.002	4847910	1000.00	1010	100.76- 140.76	120.76
5.379	5.381	-0.002	3722794	1000.00	1010	72.73- 112.73	92.73
5.585	5.588	-0.003	3874644	1000.00	1010	76.52- 116.52	96.52
6.017	6.019	-0.002	6022159	1000.00	1000	130.01- 170.01	150.01
Average of Peak Amounts =					1.01e+03		

Data File: /chem/ecod8a.i/022610.b/02062001.d  
Date: 26-FEB-2010 09:46  
Client ID: AR166002  
Sample Info: 144R100225-60 02  
Column phase: CLP2

Instrument: ecod8a.i  
Operator: JACOC  
Column diameter: 0.25

Page 1



GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/032f3201.d

Lab Smp Id: WAR100225-60 03

Client Smp ID: AR166003

Inj Date : 26-FEB-2010 12:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 03

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 32

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: AR1660.sub

Target Version: 3.50

Sample Matrix: None

AMOUNTS

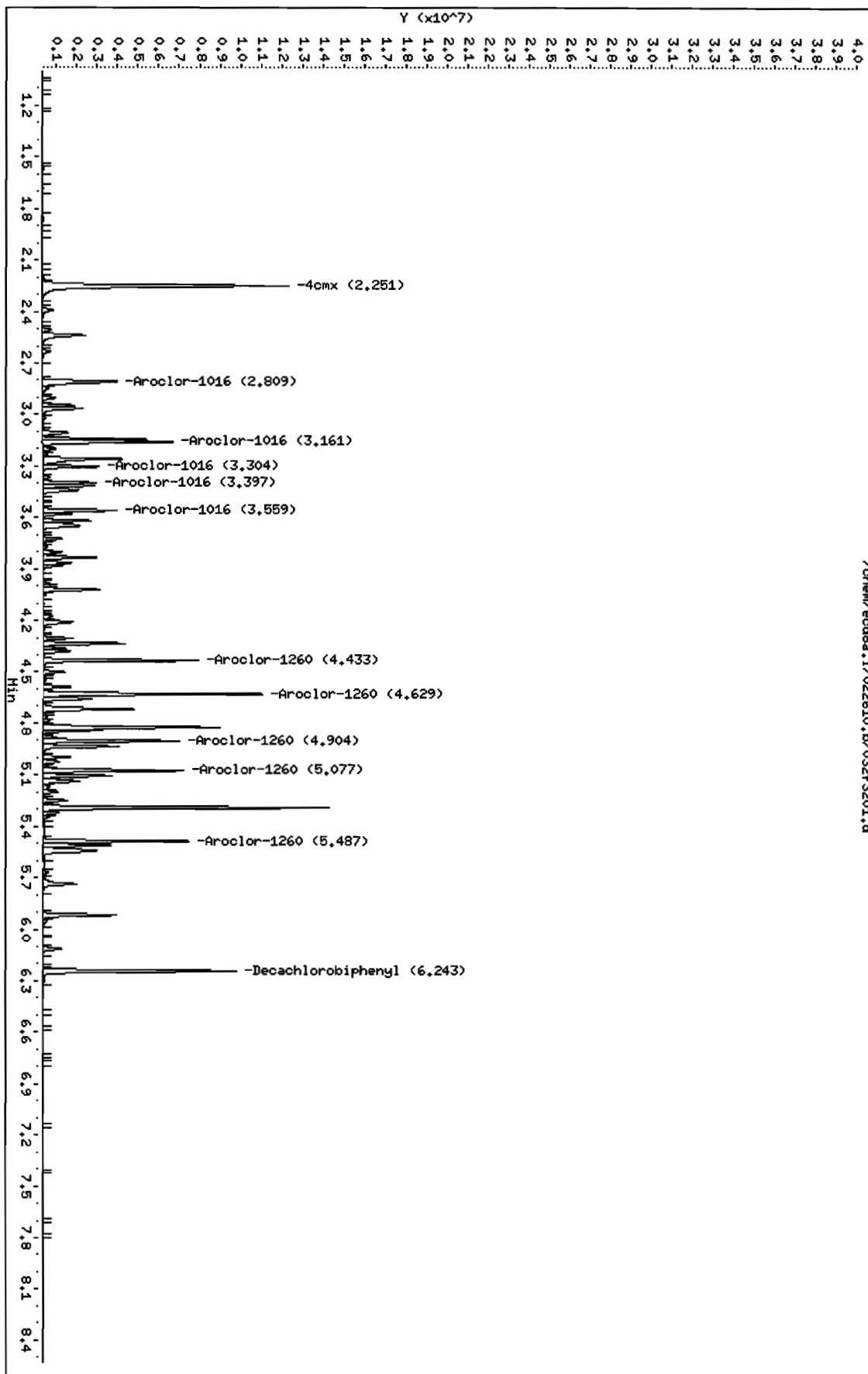
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8		
2.251	2.251	0.000	13272395	100.000	105	80.00- 120.00	100.00
-----							
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3		
6.243	6.245	-0.002	8621204	100.000	95.4	80.00- 120.00	100.00
-----							
1 Aroclor-1016					CAS #: 12674-11-2		
2.809	2.810	-0.001	4581042	1000.00	1010	80.00- 120.00	100.00
3.161	3.161	0.000	5623769	1000.00	1000	102.76- 142.76	122.76
3.304	3.305	-0.001	2387191	1000.00	998	32.11- 72.11	52.11
3.397	3.397	0.000	2100567	1000.00	981	25.85- 65.85	45.85
3.559	3.560	-0.001	3139667	1000.00	1010	48.54- 88.54	68.54
Average of Peak Amounts =					1e+03		
-----							
7 Aroclor-1260					CAS #: 11096-82-5		
4.433	4.434	-0.001	6437027	1000.00	994	80.00- 120.00	100.00
4.629	4.630	-0.001	9742545	1000.00	1020	131.35- 171.35	151.35
4.904	4.905	-0.001	5657860	1000.00	999	67.90- 107.90	87.90
5.077	5.077	0.000	5861915	1000.00	993	71.07- 111.07	91.07
5.487	5.488	-0.001	6138746	1000.00	986	75.37- 115.37	95.37
Average of Peak Amounts =					998		

Data File: /chem/ecdb8a.i/022610.b/032f3201.d  
Date: 26-FEB-2010 12:14  
Client ID: AR166003  
Sample Info: 1HAR100225-60 03  
Column phase: CLP1

Instrument: ecdb8a.i  
Operator: JHOC  
Column diameter: 0.25

/chem/ecdb8a.i/022610.b/032f3201.d

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GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/032b3201.d

Lab Smp Id: WAR100225-60 03

Client Smp ID: AR166003

Inj Date : 26-FEB-2010 12:14

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 03

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d

Als bottle: 32

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			
2.482	2.482	0.000	8740851	100.000	106	80.00- 120.00	100.00	
<hr/>								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	6094545	100.000	98.9	80.00- 120.00	100.00	
<hr/>								
1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.555	-0.001	3569149	1000.00	986	80.00- 120.00	100.00	
3.654	3.654	0.000	2471877	1000.00	1020	49.26- 89.26	69.26	
3.730	3.730	0.000	1443549	1000.00	993	20.45- 60.45	40.45	
3.805	3.805	0.000	1409557	1000.00	983	19.49- 59.49	39.49	
4.002	4.002	0.000	1975691	1000.00	1010	35.35- 75.35	55.35	
Average of Peak Amounts =					999			
<hr/>								
7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4026293	1000.00	1020	80.00- 120.00	100.00	
5.063	5.064	-0.001	4862334	1000.00	1010	100.76- 140.76	120.76	
5.380	5.381	-0.001	3715523	1000.00	1010	72.28- 112.28	92.28	
5.587	5.588	-0.001	3862868	1000.00	1010	75.94- 115.94	95.94	
6.019	6.019	0.000	6034066	1000.00	1010	129.87- 169.87	149.87	
Average of Peak Amounts =					1.01e+03			
<hr/>								



Data File: /chem/ecob8a.i/022610.b/032b3201.d

Date : 26-FEB-2010 12:14

Client ID: AR166003

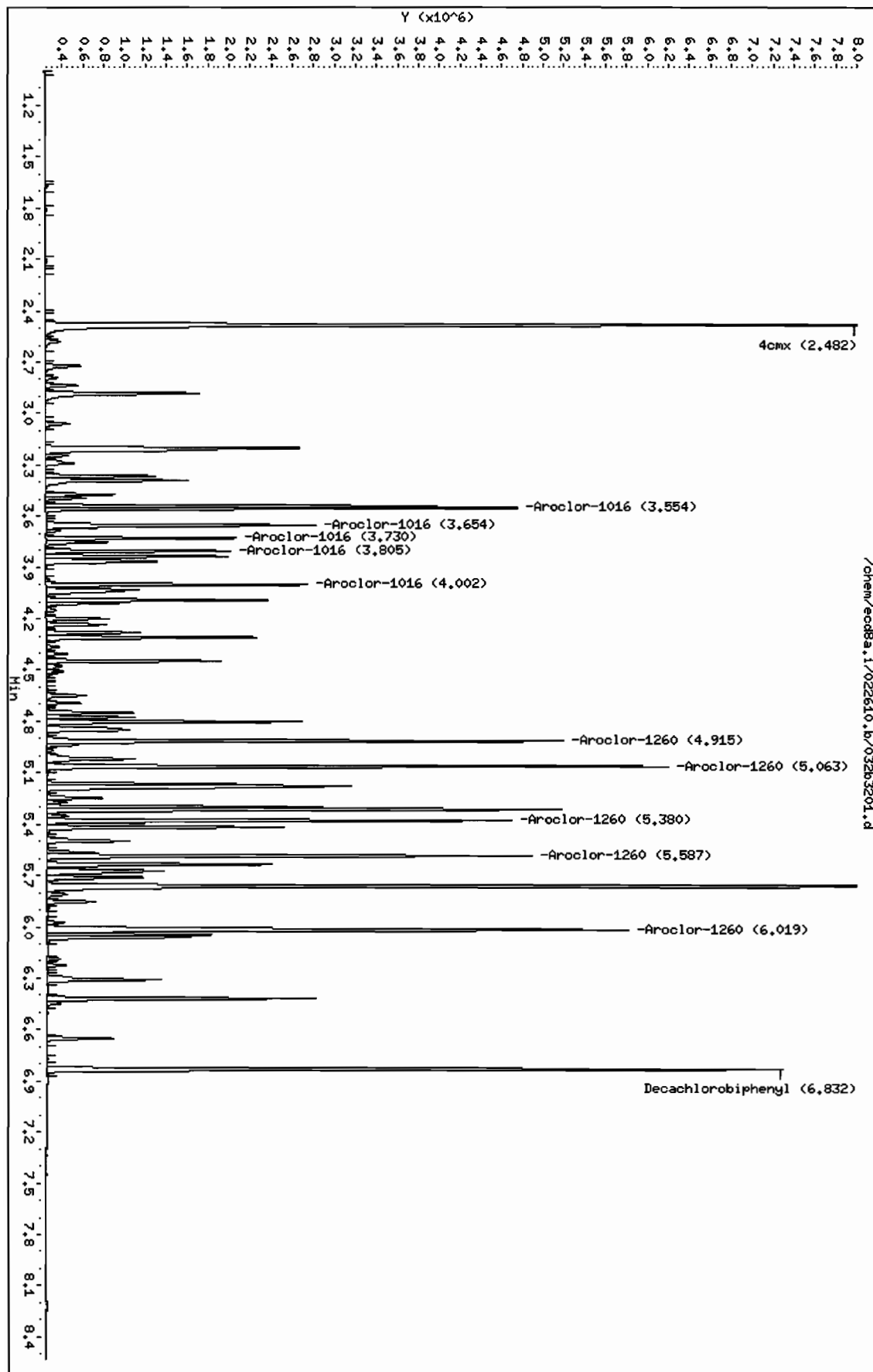
Sample Info: IWR100225-60 03

Column phase: CLP2

Instrument: ecob8a.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/022610.b/044f4401.d

Lab Smp Id: WAR100225-60 04

Client Smp ID: AR166004

Inj Date : 26-FEB-2010 14:43

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |WAR100225-60 04

Misc Info : |1660

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 44

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	13233538	100.000	105	80.00-	120.00	100.00
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.244	6.245	-0.001	8704517	100.000	96.4	80.00-	120.00	100.00
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
2.809	2.810	-0.001	4541077	1000.00	998	80.00-	120.00	100.00
3.161	3.161	0.000	5823408	1000.00	1040	104.84-	144.84	128.24
3.304	3.305	-0.001	2433859	1000.00	1020	33.07-	73.07	53.60
3.396	3.397	-0.001	2072037	1000.00	968	26.78-	66.78	45.63
3.559	3.560	-0.001	3105421	1000.00	1000	48.31-	88.31	68.39
Average of Peak Amounts =					1e+03			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	6251870	1000.00	965	80.00-	120.00	100.00
4.629	4.630	-0.001	9416695	1000.00	986	131.74-	171.74	150.62
4.904	4.905	-0.001	5516477	1000.00	974	69.00-	109.00	88.24
5.076	5.077	-0.001	5745470	1000.00	973	72.38-	112.38	91.90
5.488	5.488	0.000	6132995	1000.00	985	77.14-	117.14	98.10
Average of Peak Amounts =					977			

Data File: /chem/ecob8a.i/022610.b/044f4401.d

Date: 26-FEB-2010 14:43

Client ID: AR166004

Sample Info: IMA100225-60 04

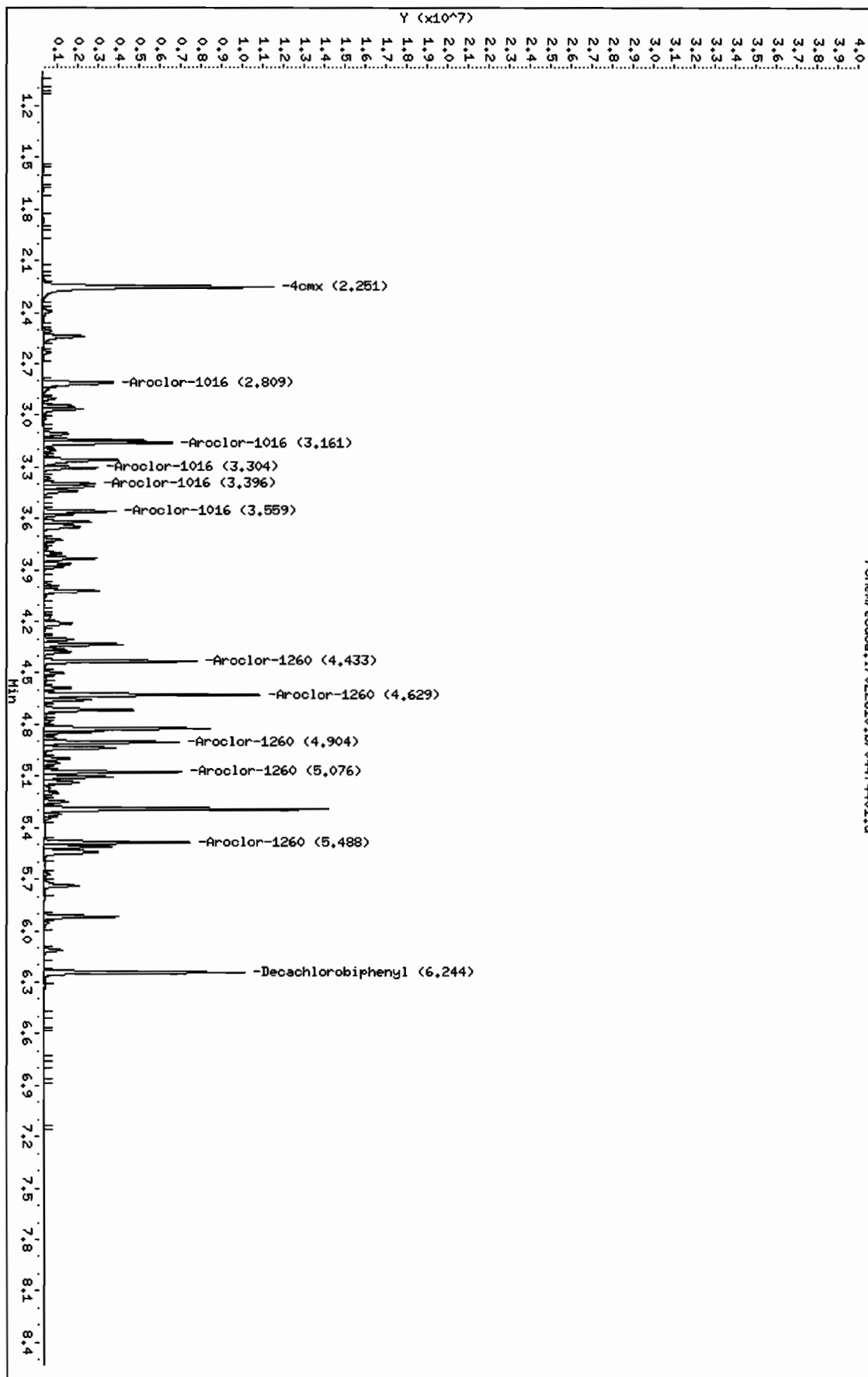
Column phase: CLP1

Instrument: ecob8a.i

Operator: JADC

Column diameter: 0.25

/chem/ecob8a.i/022610.b/044f4401.d



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/044b4401.d  
Lab Smp Id: WAR100225-60 04 Client Smp ID: AR166004  
Inj Date : 26-FEB-2010 14:43  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |WAR100225-60 04  
Misc Info : |1660  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 44 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: AR1660.sub  
Target Version: 3.50 Sample Matrix: None

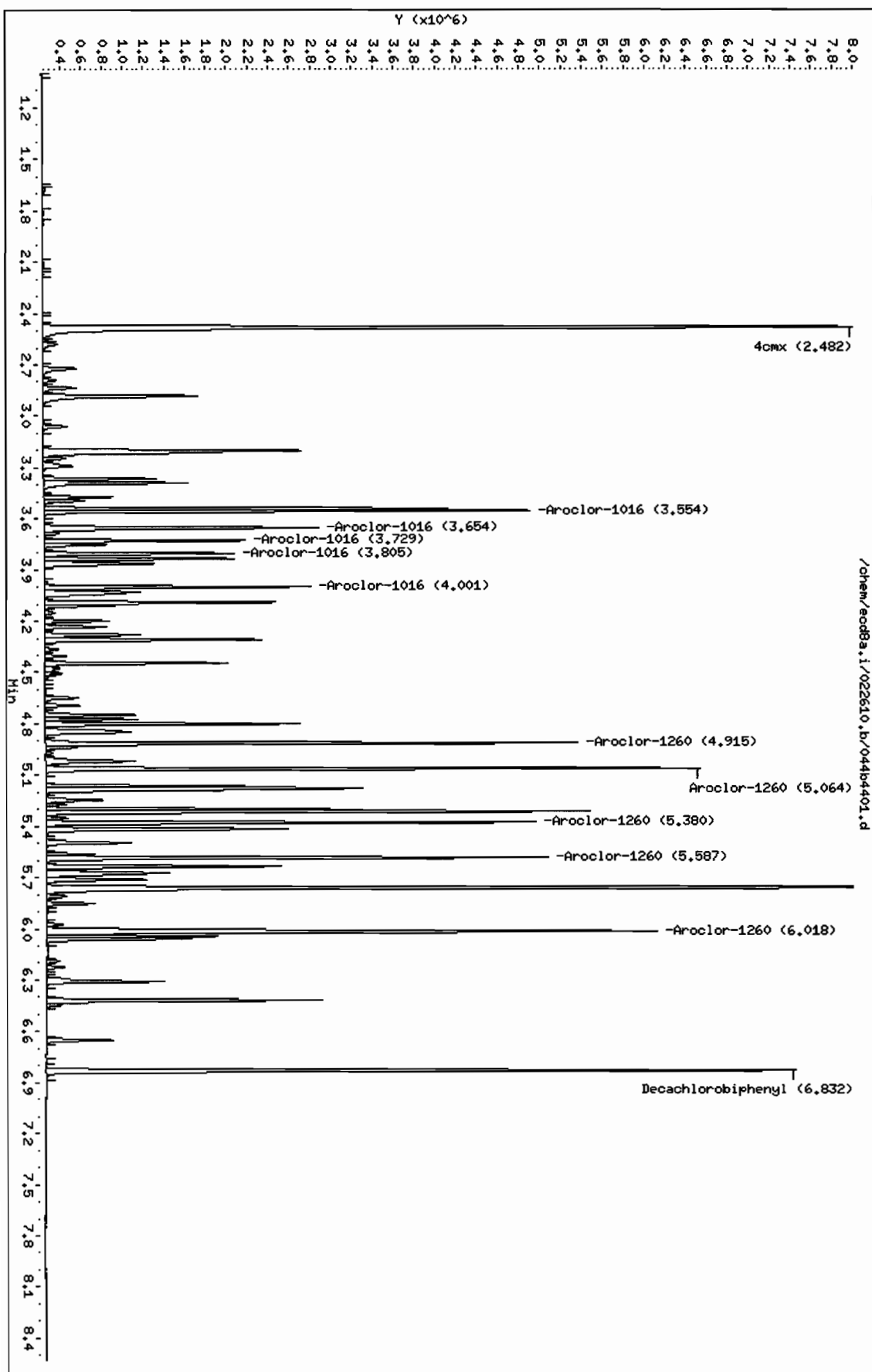
AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx					CAS #: 877-09-8			
2.482	2.482	0.000	9010431	100.000	109	80.00-	120.00	100.00
-----								
\$ 12 Decachlorobiphenyl					CAS #: 2051-24-3			
6.832	6.832	0.000	6292898	100.000	102	80.00-	120.00	100.00
-----								
1 Aroclor-1016					CAS #: 12674-11-2			
3.554	3.555	-0.001	3880770	1000.00	1070	80.00-	120.00	100.00
3.654	3.654	0.000	2552859	1000.00	1060	45.66-	85.66	65.78
3.729	3.730	-0.001	1518342	1000.00	1040	19.41-	59.41	39.12
3.805	3.805	0.000	1475125	1000.00	1030	18.16-	58.16	38.01
4.001	4.002	-0.001	2071200	1000.00	1060	33.55-	73.55	53.37
Average of Peak Amounts =					1.05e+03			
-----								
7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	4204078	1000.00	1060	80.00-	120.00	100.00
5.064	5.064	0.000	5071797	1000.00	1050	100.35-	140.35	120.64
5.380	5.381	-0.001	3870314	1000.00	1050	71.55-	111.55	92.06
5.587	5.588	-0.001	4037143	1000.00	1060	75.81-	115.81	96.03
6.018	6.019	-0.001	6271605	1000.00	1050	128.72-	168.72	149.18
Average of Peak Amounts =					1.05e+03			

Data File: /chem/eod8a.i/022610.b/044b4401.d  
Date : 26-FEB-2010 14:43  
Client ID: AR16004  
Sample Info: IWR100225-60 04

Column phase: CLP2

Instrument: eod8a.i  
Operator: JAOC  
Column diameter: 0.25

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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.: 10-1908

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		
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 (QC LIMITS +/- 0.03 MINUTES)  
DCB = Decachlorobiphenyl (QC LIMITS +/- 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.: 10-1908

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.: 10-1908

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: 6.25			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #	
01	PIBLK01	WAR100219-99	02/26/10	0532	2.25	6.24
02	AR166001	WAR100225-60	02/26/10	0545	2.25	6.24
03	AR125401	WAR100201-54	02/26/10	0557		
04	AR124201	WAR091217-42	02/26/10	0609		
05	AR124801	WAR091217-48	02/26/10	0622		
06	AR123201	WAR100104-32	02/26/10	0634		
07	AR122101	WAR100104-21	02/26/10	0646		
08	AR126201	WAR100104-62	02/26/10	0659		
09	AR126801	WAR100107-68	02/26/10	0711		
10	DDTANALOGSTD	WAR091219-DD	02/26/10	0723		
11	PIBLK02	WAR100219-99	02/26/10	0739	2.25	6.25
12	ZZZZZ	ZZZZZ	02/26/10	0751	2.25	6.24
13	ZZZZZ	ZZZZZ	02/26/10	0803	2.25	6.24
14	ZZZZZ	ZZZZZ	02/26/10	0816	2.25	6.24
15	ZZZZZ	ZZZZZ	02/26/10	0828	2.25	6.24
16	ZZZZZ	ZZZZZ	02/26/10	0840	2.25	6.24
17	ZZZZZ	ZZZZZ	02/26/10	0857	2.25	6.24
18	ZZZZZ	ZZZZZ	02/26/10	0913	2.25	6.24
19	ZZZZZ	ZZZZZ	02/26/10	0930	2.25	6.24
20	AR166002	WAR100225-60	02/26/10	0946	2.25	6.24
21	PIBLK03	WAR100219-99	02/26/10	0959	2.25	6.24
22	ZZZZZ	ZZZZZ	02/26/10	1011	2.25	6.24
23	ZZZZZ	ZZZZZ	02/26/10	1023	2.25	6.24
24	PBLK01	1202053317	02/26/10	1036	2.25	6.24
25	PBLK01LCS	1202053318	02/26/10	1048	2.25	6.24
26	RE15-10-8208	247343001	02/26/10	1100	2.25	6.24
27	RE15-10-8203	247343002	02/26/10	1113	2.25	6.24
28	RE15-10-8206	247343003	02/26/10	1125	2.25	6.24
29	RE15-10-8207	247343004	02/26/10	1137	2.25	6.24
30	RE15-10-8204	247343005	02/26/10	1150	2.25	6.24
31	RE15-10-8202	247343006	02/26/10	1202	2.25	6.24
32	AR166003	WAR100225-60	02/26/10	1214	2.25	6.24

S1 = 4cmx  
DCB = Decachlorobiphenyl

QC LIMITS  
(+/- 0.03 MINUTES)  
(+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.



8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908

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: 6.25			
EPA	LAB	DATE	TIME	S1	DCB		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT	#
=====	=====	=====	=====	=====	=====	=====	=====
01 PIBLK04	WAR100219-99	02/26/10	1227	2.25		6.24	
02 RE15-10-8209	247343007	02/26/10	1239	2.25		6.24	
03 RE15-10-8205	247343008	02/26/10	1252	2.25		6.24	
04 RE15-10-8227	247343009	02/26/10	1304	2.25		6.24	
05 RE15-10-8228	247343010	02/26/10	1316	2.25		6.24	
06 RE15-10-8212	247343011	02/26/10	1329	2.25		6.24	
07 ZZZZZZ	ZZZZZ	02/26/10	1341	2.25		6.24	
08 ZZZZZZ	ZZZZZ	02/26/10	1353	2.25		6.24	
09 ZZZZZZ	ZZZZZ	02/26/10	1406	2.25		6.24	
10 ZZZZZZ	ZZZZZ	02/26/10	1418	2.25		6.24	
11 ZZZZZZ	ZZZZZ	02/26/10	1431	2.25		6.24	
12 AR166004	WAR100225-60	02/26/10	1443	2.25		6.24	
13 PIBLK05	WAR100219-99	02/26/10	1455	2.25		6.24	
14 ZZZZZZ	ZZZZZ	02/26/10	1508	2.25		6.24	
15 ZZZZZZ	ZZZZZ	02/26/10	1520	2.25		6.24	
16 ZZZZZZ	ZZZZZ	02/26/10	1532	2.25		6.24	
17 ZZZZZZ	ZZZZZ	02/26/10	1545	2.25		6.24	
18 ZZZZZZ	ZZZZZ	02/26/10	1557	2.25		6.24	
19 AR166005	WAR100225-60	02/26/10	1610	2.25		6.24	
20 PIBLK06	WAR100219-99	02/26/10	1622	2.25		6.24	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908

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	02/26/10	0532	2.48	6.83
02	AR166001	WAR100225-60	02/26/10	0545	2.48	6.83
03	AR125401	WAR100201-54	02/26/10	0557		
04	AR124201	WAR091217-42	02/26/10	0609		
05	AR124801	WAR091217-48	02/26/10	0622		
06	AR123201	WAR100104-32	02/26/10	0634		
07	AR122101	WAR100104-21	02/26/10	0646		
08	AR126201	WAR100104-62	02/26/10	0659		
09	AR126801	WAR100107-68	02/26/10	0711		
10	DDTANANLOGST	WAR091219-DD	02/26/10	0723		
11	PIBLK02	WAR100219-99	02/26/10	0739	2.48	6.83
12	ZZZZZ	ZZZZZ	02/26/10	0751	2.48	6.83
13	ZZZZZ	ZZZZZ	02/26/10	0803	2.48	6.83
14	ZZZZZ	ZZZZZ	02/26/10	0816	2.48	6.83
15	ZZZZZ	ZZZZZ	02/26/10	0828	2.48	6.83
16	ZZZZZ	ZZZZZ	02/26/10	0840	2.48	6.83
17	ZZZZZ	ZZZZZ	02/26/10	0857	2.48	6.83
18	ZZZZZ	ZZZZZ	02/26/10	0913	2.48	6.83
19	ZZZZZ	ZZZZZ	02/26/10	0930	2.48	6.83
20	AR166002	WAR100225-60	02/26/10	0946	2.48	6.83
21	PIBLK03	WAR100219-99	02/26/10	0959	2.48	6.83
22	ZZZZZ	ZZZZZ	02/26/10	1011	2.48	6.84
23	ZZZZZ	ZZZZZ	02/26/10	1023	2.48	6.83
24	PBLK01	1202053317	02/26/10	1036	2.48	6.83
25	PBLK01LCS	1202053318	02/26/10	1048	2.48	6.83
26	RE15-10-8208	247343001	02/26/10	1100	2.48	6.83
27	RE15-10-8203	247343002	02/26/10	1113	2.48	6.83
28	RE15-10-8206	247343003	02/26/10	1125	2.48	6.83
29	RE15-10-8207	247343004	02/26/10	1137	2.48	6.83
30	RE15-10-8204	247343005	02/26/10	1150	2.48	6.83
31	RE15-10-8202	247343006	02/26/10	1202	2.48	6.83
32	AR166003	WAR100225-60	02/26/10	1214	2.48	6.83

S1 = 4cmx  
DCB = Decachlorobiphenyl

QC LIMITS  
(+/- 0.03 MINUTES)  
(+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

8D  
PCB ANALYTICAL SEQUENCE

Lab Name: GENERAL ENGINEERING LAB, Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 10-1908

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	PIBLK04	WAR100219-99	02/26/10	1227	2.48	6.83
02	RE15-10-8209	247343007	02/26/10	1239	2.48	6.83
03	RE15-10-8205	247343008	02/26/10	1252	2.48	6.83
04	RE15-10-8227	247343009	02/26/10	1304	2.48	6.83
05	RE15-10-8228	247343010	02/26/10	1316	2.48	6.83
06	RE15-10-8212	247343011	02/26/10	1329	2.48	6.83
07	ZZZZZ	ZZZZZ	02/26/10	1341	2.48	6.83
08	ZZZZZ	ZZZZZ	02/26/10	1353	2.48	6.83
09	ZZZZZ	ZZZZZ	02/26/10	1406	2.48	6.83
10	ZZZZZ	ZZZZZ	02/26/10	1418	2.48	6.83
11	ZZZZZ	ZZZZZ	02/26/10	1431	2.48	6.83
12	AR166004	WAR100225-60	02/26/10	1443	2.48	6.83
13	PIBLK05	WAR100219-99	02/26/10	1455	2.48	6.83
14	ZZZZZ	ZZZZZ	02/26/10	1508	2.48	6.83
15	ZZZZZ	ZZZZZ	02/26/10	1520	2.48	6.83
16	ZZZZZ	ZZZZZ	02/26/10	1532	2.48	6.83
17	ZZZZZ	ZZZZZ	02/26/10	1545	2.48	6.83
18	ZZZZZ	ZZZZZ	02/26/10	1557	2.48	6.83
19	AR166005	WAR100225-60	02/26/10	1610	2.48	6.83
20	PIBLK06	WAR100219-99	02/26/10	1622	2.48	6.83
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4cmx (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

## Identification Summary

Page 1 of 1

SDG Number: 10-1908

Client ID: LCS for batch 957587

Lab Sample ID: 1202053318

Data File: 025f2501.d

Data File: 025b2501.d

Inst: ECD8A.I\_1

Inst: ECD8A.I\_2

Column: CLP1

Column: CLP2

Analyzed: 26-FEB-10 10:48

Analyzed: 26-FEB-10 10:48

Analyte	Peak	RT	RT Window	Conc.	Ave Conc.	Units	RPD
<b>Aroclor-1016</b>							11.6
<i>Column 1</i>	1	2.81	2.78 – 2.84	23.8		ug/kg	
	2	3.16	3.13 – 3.19	23.8		ug/kg	
	3	3.3	3.28 – 3.34	22.8		ug/kg	
	4	3.4	3.37 – 3.43	24.1		ug/kg	
	5	3.56	3.53 – 3.59	23		ug/kg	
					23.5		
<i>Column 2</i>	1	3.56	3.53 – 3.59	27		ug/kg	
	2	3.65	3.62 – 3.68	26.8		ug/kg	
	3	3.73	3.7 – 3.76	25.3		ug/kg	
	4	3.81	3.78 – 3.84	26.5		ug/kg	
	5	4	3.97 – 4.03	26.6		ug/kg	
					26.4		
<b>Aroclor-1260</b>							11.1
<i>Column 1</i>	1	4.43	4.4 – 4.46	27.5		ug/kg	
	2	4.63	4.6 – 4.66	28.2		ug/kg	
	3	4.9	4.87 – 4.93	28.4		ug/kg	
	4	5.08	5.05 – 5.11	28.4		ug/kg	
	5	5.49	5.46 – 5.52	29.7		ug/kg	
					28.4		
<i>Column 2</i>	1	4.91	4.89 – 4.95	31.1		ug/kg	
	2	5.06	5.03 – 5.09	32		ug/kg	
	3	5.38	5.35 – 5.41	32.2		ug/kg	
	4	5.59	5.56 – 5.62	31.7		ug/kg	
	5	6.02	5.99 – 6.05	32		ug/kg	
					31.8		

# QUALITY CONTROL DATA

**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908

Matrix: SOIL

Lab Sample ID: 1202053317

Client Sample: QC for batch 957587

Client: LANL010

Project: QC

Client ID: MB for batch 957587

Method: SW846 8082

SOP Ref: GL-OA-E-040

Batch ID: 957590

Inst: ECD8A.I

Dilution: 1

Run Date: 02/26/2010 10:36

Analyst: JAOC

Inj. Vol: 1 uL

Prep Date: 02/25/2010 21:15

Aliquot: 30 g

Final Volume: 1 mL

Data File: 024f2401-1.d

Column: 1 CLP1

Level: LOW

024b2401-1.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

Page 1

GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

```
Data file : /chem/ecd8a.i/022610.b/024f2401.d
Lab Smp Id: 1202053317                               Client Smp ID: PBLK01
Inj Date  : 26-FEB-2010 10:36
Operator  : JAOC                                         Inst ID: ecd8a.i
Smp Info  : |1202053317|1|
Misc Info : |ECD82P_1S|957590|SVA|QC A|SOIL|MB|||
Comment   :
Method    : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m
Meth Date : 26-Feb-2010 12:24 jen01212                Quant Type: ESTD
Cal Date  : 23-FEB-2010 11:32                         Cal File: 017f1701.d
Als bottle: 24                                          QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon                                     Compound Sublist: 10-1908.sub
Target Version: 3.50                                  Sample Matrix: Soil
```

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

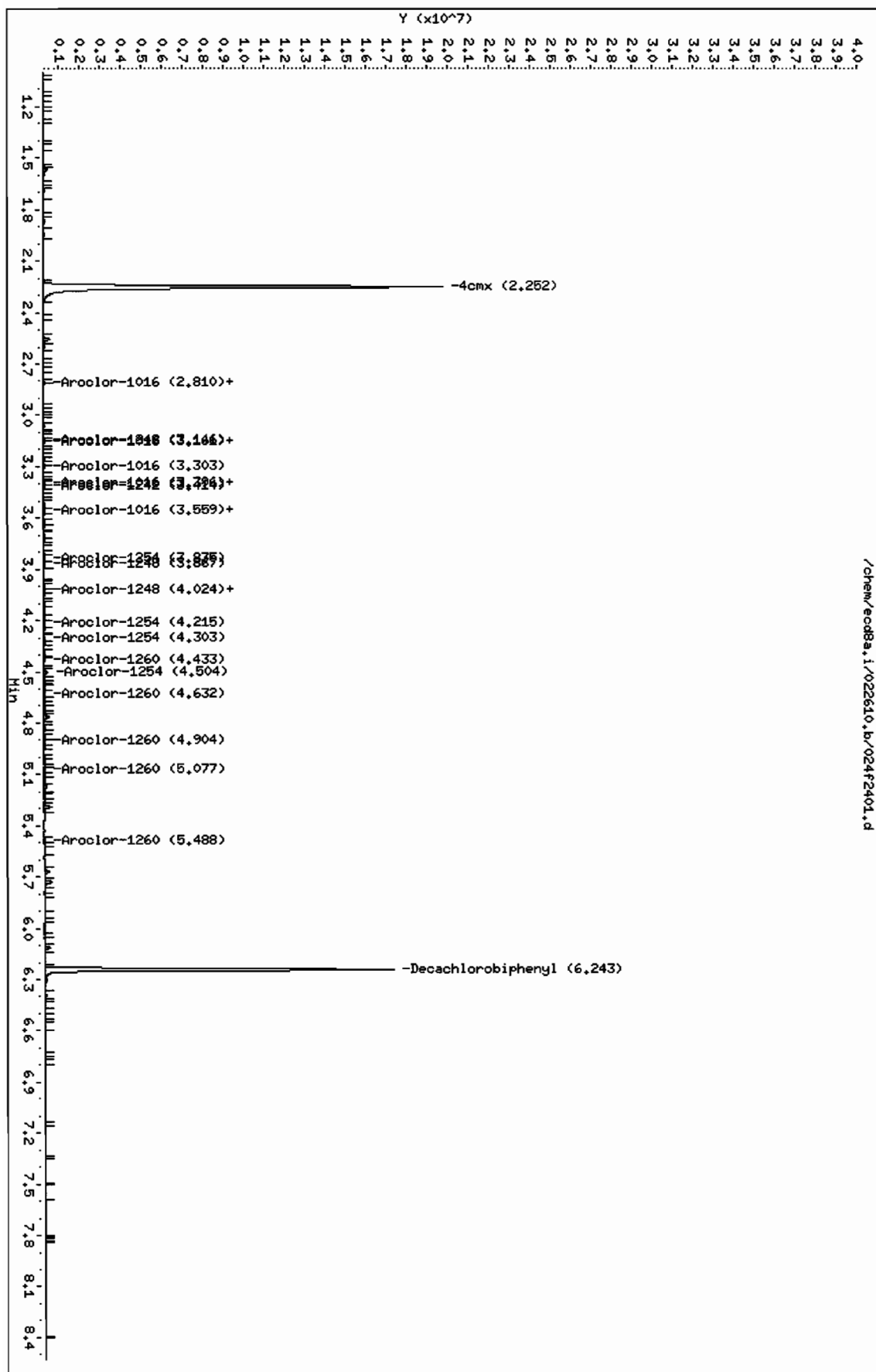
Cpnd Variable	Local Compound Variable
---------------	-------------------------

### CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL		FINAL		RANGE	RATIO
			RESPONSE	( ug/L)	(ug/Kg)	TARGET		
==	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11	4cmx				CAS #:	877-09-8		
2.252	2.251	0.001	21933608	174.063	5.8	80.00-	120.00	100.00
-----								
\$ 12	Decachlorobiphenyl				CAS #:	2051-24-3		
6.243	6.245	-0.002	15478188	171.374	5.7	80.00-	120.00	100.00

Data File: /chem/ecdb8a.i/022610.b/024f2401.d  
Date: 26-FEB-2010 10:36  
Client ID: PBLK01  
Sample Info: 1120205331711  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecdb8a.i  
Operator: JHOC  
Column diameter: 0.25





Data File: /chem/ecd8a.i/022610.b/024b2401.d  
Report Date: 26-Feb-2010 12:08

Page 1

GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
Data file : /chem/ecd8a.i/022610.b/024b2401.d  
Lab Smp Id: 1202053317 Client Smp ID: PBLK01  
Inj Date : 26-FEB-2010 10:36  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202053317|1|  
Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|MB|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
Meth Date : 26-Feb-2010 10:02 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
Als bottle: 24 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.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

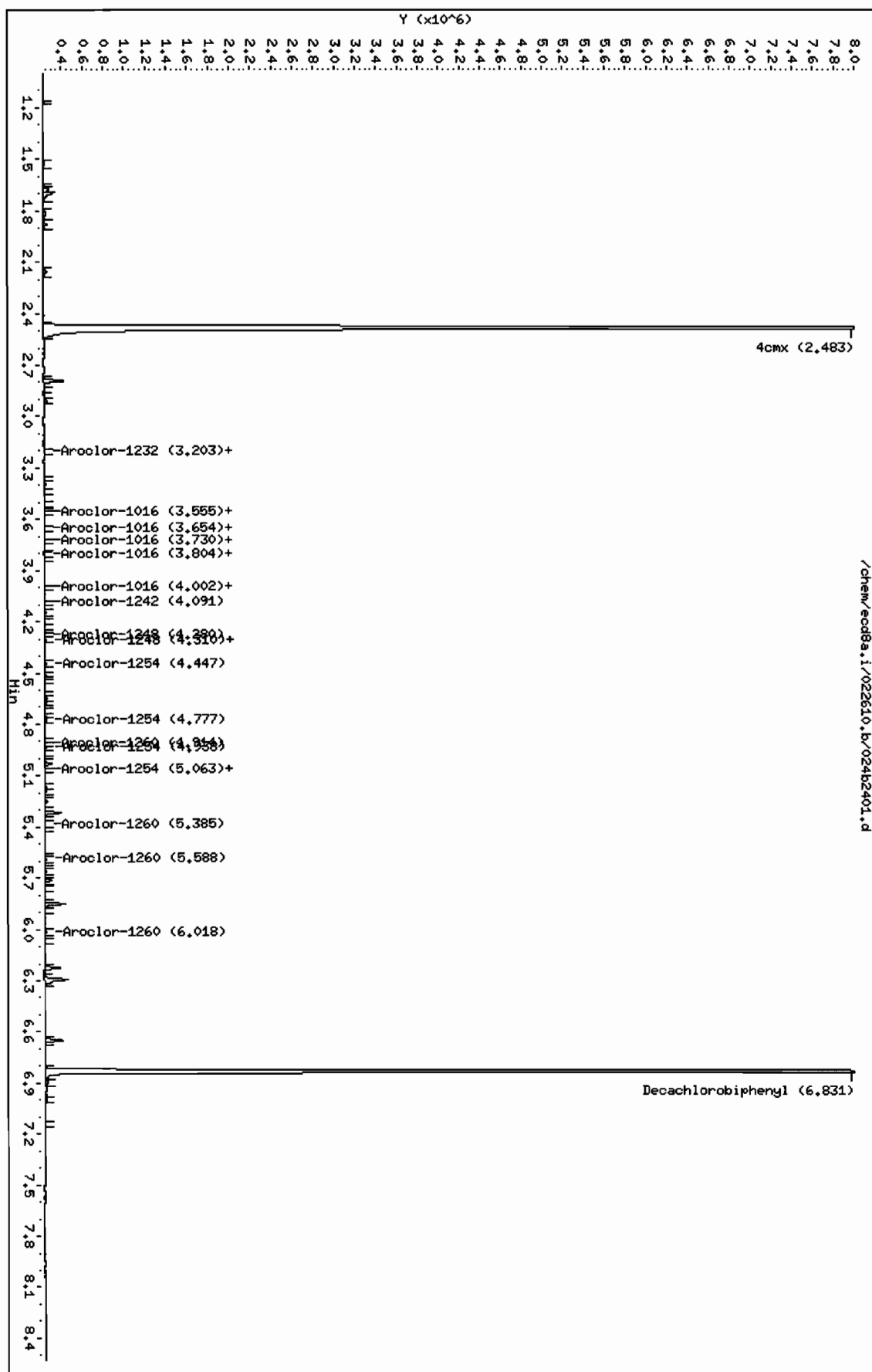
Cpnd Variable Local Compound Variable

CONCENTRATIONS							
				ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx CAS #: 877-09-8							
2.483	2.482	0.001	15204335 184.351	6.1	80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.831	6.832	-0.001	11298475 183.305	6.1	80.00- 120.00	100.00	
-----							

Data File: /chem/ecod8a.i/022610.b/024b2401.d  
Date: 26-FEB-2010 10:36  
Client ID: PBLK01  
Sample Info: 1120205331711  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecod8a.i  
Operator: JMO  
Column diameter: 0.25

Page 1



**PCB**  
**Certificate of Analysis**  
**Sample Summary**

SDG Number: 10-1908  
 Lab Sample ID: 1202053318  
 Client Sample: QC for batch 957587  
 Client ID: LCS for batch 957587  
 Batch ID: 957590  
 Run Date: 02/26/2010 10:48  
 Prep Date: 02/25/2010 21:15  
 Data File: 025f2501-1.d  
 025b2501-1.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		26.4	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		31.8	ug/kg	1.11	3.33	2

Data File: /chem/ecd8a.i/022610.b/025f2501.d  
Report Date: 26-Feb-2010 12:25

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GEL Laboratories LLC

RTX-CLPEST1 30m/0.25 mm 1.0 INJ VOL

Data file : /chem/ecd8a.i/022610.b/025f2501.d  
Lab Smp Id: 1202053318 Client Smp ID: PBLK01LCS  
Inj Date : 26-FEB-2010 10:48  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202053318|1|  
Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|LCS|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 25 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1908.sub  
Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE	ON-COL ( ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
\$ 11 4cmx						CAS #: 877-09-8	
2.252	2.251	0.001	19592168	155.482	5.2	80.00- 120.00	100.00
\$ 12 Decachlorobiphenyl						CAS #: 2051-24-3	
6.243	6.245	-0.002	15185761	168.136	5.6	80.00- 120.00	100.00
1 Aroclor-1016						CAS #: 12674-11-2	
2.810	2.810	0.000	3248209	713.692	23.8	80.00- 120.00	100.00
3.161	3.161	0.000	4003962	713.711	23.8	102.76- 142.76	123.27
3.304	3.305	-0.001	1640060	685.558	22.8	32.11- 72.11	50.49
3.397	3.397	0.000	1548988	723.616	24.1	25.85- 65.85	47.69
3.559	3.560	-0.001	2141447	690.976	23.0	48.54- 88.54	65.93
Average of Peak Concentrations =					23.5		

CONCENTRATIONS

ON-COL FINAL

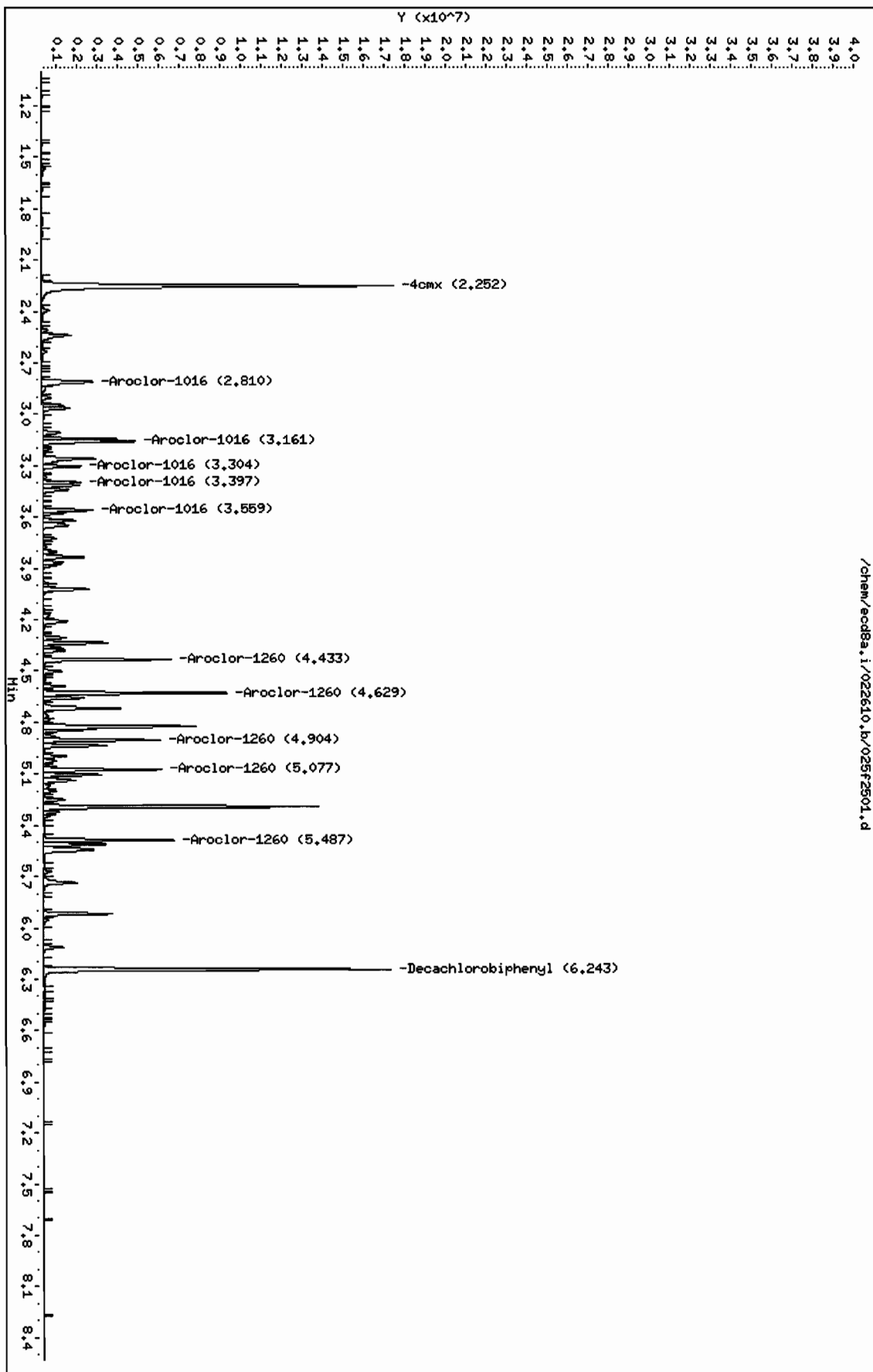
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO
----	--------	--------	------------------	---------	--------------	-------

7 Aroclor-1260			CAS #: 11096-82-5			
4.433	4.434	-0.001	5352411 826.557	27.6	80.00- 120.00	100.00
4.629	4.630	-0.001	8071094 845.294	28.2	131.35- 171.35	150.79
4.904	4.905	-0.001	4833940 853.198	28.4	67.90- 107.90	90.31
5.077	5.077	0.000	5025587 851.213	28.4	71.07- 111.07	93.89
5.487	5.488	-0.001	5550333 891.073	29.7	75.37- 115.37	103.70

Average of Peak Concentrations = 28.5

Data File: /chem/ecd8a.i/022610.b/025f2501.d  
Date: 26-FEB-2010 10:48  
Client ID: PBLK01LCS  
Sample Info: 1120205331811  
Volume Injected (uL): 1.0  
Column phase: CLP1

Instrument: ecd8a.i  
Operator: JHDC  
Column diameter: 0.25



Data File: /chem/ecd8a.i/022610.b/025b2501.d  
 Report Date: 26-Feb-2010 12:25

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RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
 Data file : /chem/ecd8a.i/022610.b/025b2501.d  
 Lab Smp Id: 1202053318 Client Smp ID: PBLK01LCS  
 Inj Date : 26-FEB-2010 10:48  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |1202053318|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|LCS|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 25 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1908.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

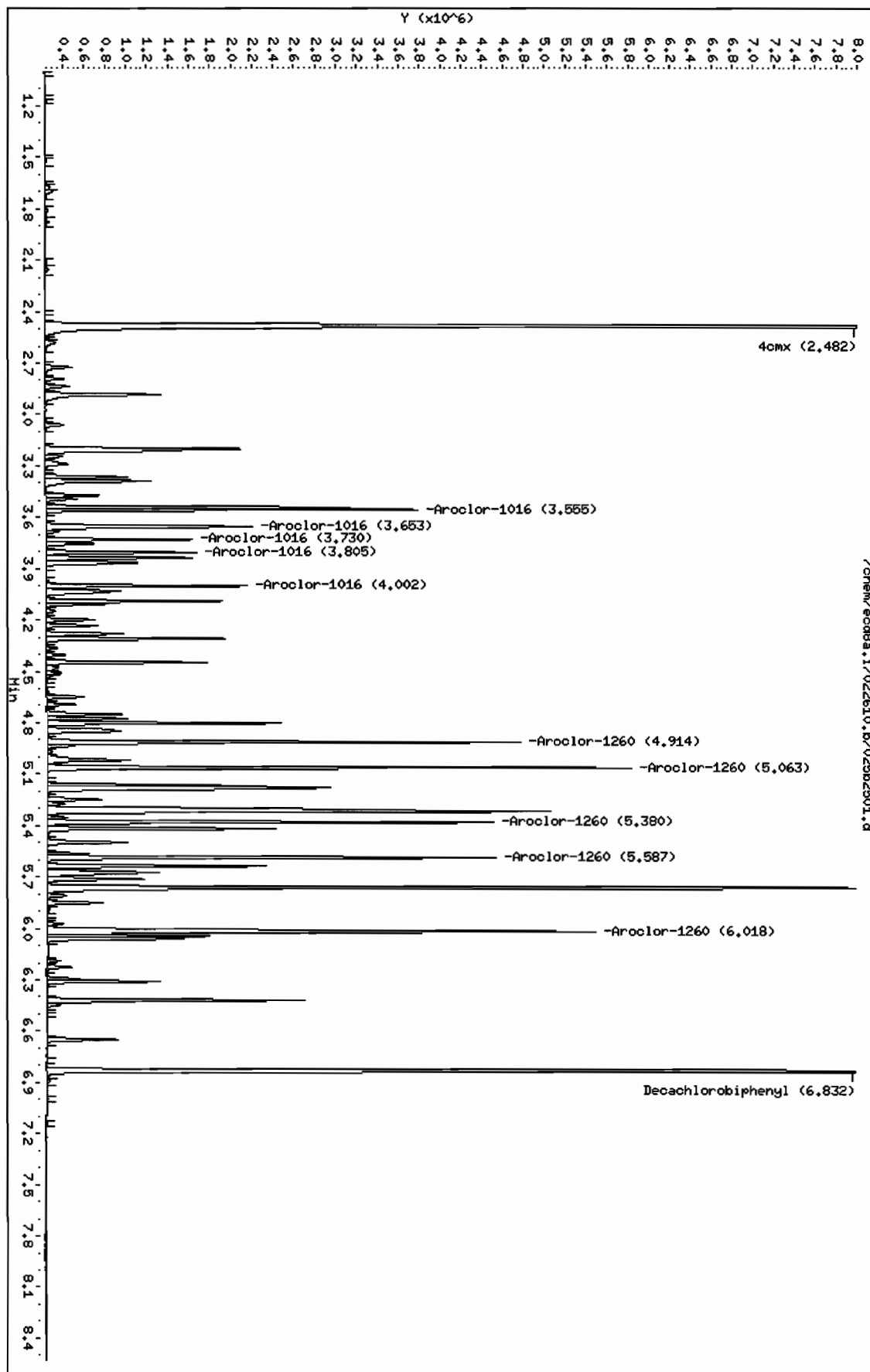
CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
\$ 11 4cmx				CAS #: 877-09-8			
2.482	2.482	0.000	14102198 170.988	5.7	80.00- 120.00	100.00	
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.832	6.832	0.000	10856427 176.133	5.9	80.00- 120.00	100.00	
1 Aroclor-1016				CAS #: 12674-11-2			
3.555	3.555	0.000	2931014 809.794	27.0	80.00- 120.00	100.00	
3.653	3.654	-0.001	1934648 802.710	26.8	49.26- 89.26	66.01	
3.730	3.730	0.000	1102945 759.019	25.3	20.45- 60.45	37.63	
3.805	3.805	0.000	1138480 794.040	26.5	19.49- 59.49	38.84	
4.002	4.002	0.000	1562491 797.884	26.6	35.35- 75.35	53.31	
Average of Peak Concentrations =				26.4			

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
7 Aroclor-1260			CAS #: 11096-82-5				
4.914	4.915	-0.001	3696028	931.788	31.0	80.00- 120.00	100.00
5.063	5.064	-0.001	4613252	959.287	32.0	100.76- 140.76	124.82
5.380	5.381	-0.001	3559563	967.327	32.2	72.28- 112.28	96.31
5.587	5.588	-0.001	3637016	950.655	31.7	75.94- 115.94	98.40
6.018	6.019	-0.001	5761063	961.170	32.0	129.87- 169.87	155.87
Average of Peak Concentrations =					31.8		



Data File: /chem/ecodba.i/022610.b/025b2501.d  
Date: 26-FEB-2010 10:48  
Client ID: PBLK01LCS  
Sample Info: 11202053318141  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecodba.i  
Operator: JROC  
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	1.0		CLEAN
002f0201.d	WAR100203-60 01	JAOC	23-FEB-2010 08:26		022310	1.0		DUSE
003f0301.d	WAR100201-54	JAOC	23-FEB-2010 08:39		022310	1.0		PASSES BOTH COLUMNS
004f0401.d	WAR091217-42	JAOC	23-FEB-2010 08:51		022310	1.0		PASSES BOTH COLUMNS
005f0501.d	WAR091217-48	JAOC	23-FEB-2010 09:03		022310	1.0		PASSES BOTH COLUMNS
006f0601.d	WAR100104-32	JAOC	23-FEB-2010 09:16		022310	1.0		PATTERN ONLY
007f0701.d	WAR100223-01 60	JAOC	23-FEB-2010 09:28		022310	1.0		1660 LEVEL 1
008f0801.d	WAR100223-02 60	JAOC	23-FEB-2010 09:41		022310	1.0		1660 LEVEL 2
009f0901.d	WAR100223-03 60	JAOC	23-FEB-2010 09:53		022310	1.0		1660 LEVEL 3
010f1001.d	WAR100223-04 60	JAOC	23-FEB-2010 10:05		022310	1.0		1660 LEVEL 4
011f1101.d	WAR100223-01 60	JAOC	23-FEB-2010 10:18		022310	1.0		1660 LEVEL 5
012f1201.d	WAR100222-60 01	JAOC	23-FEB-2010 10:30		022310	1.0		DUSE
013f1301.d	WAR100223-05 21	JAOC	23-FEB-2010 10:43		022310	1.0		1221 LEVEL 1
014f1401.d	WAR100223-06 21	JAOC	23-FEB-2010 10:55		022310	1.0		1221 LEVEL 2
015f1501.d	WAR100223-07 21	JAOC	23-FEB-2010 11:07		022310	1.0		1221 LEVEL 3
-----								

Instrument Batch: /chem/ecd8a.i/022310.b

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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	1.0		1221 LEVEL 4
017f1701.d	WAR100104-02 21	JAOC	23-FEB-2010 11:32		022310	1.0		1221 LEVEL 5
-----								

018f1801.d	WAR100104-21	JAC	23-FEB-2010 11:45		022310	1.0	PASSES BOTH COLUMNS
019f1901.d	WAR100222-60 01	JAC	23-FEB-2010 11:57		022310	1.0	PASSES BOTH COLUMNS
020f2001.d	WAR100104-62	JAC	23-FEB-2010 12:09		022310	1.0	PATTERN ONLY
021f2101.d	WAR100107-68	JAC	23-FEB-2010 12:22		022310	1.0	PATTERN ONLY
022f2201.d	WAR091219-DDT	JAC	23-FEB-2010 12:34		022310	1.0	DDT
023f2301.d	WAR100105-99 02	JAC	23-FEB-2010 12:46		022310	1.0	CLEAN
024f2401.d	1202048644	JAC	23-FEB-2010 12:59	955558	10-1781	1.0 QC A	UPLOAD BOTH, USE HIGHER
025f2501.d	1202048645	JAC	23-FEB-2010 13:11	955558	10-1781	1.0 QC A	UPLOAD BOTH, USE HIGHER
026f2601.d	246863005	JAC	23-FEB-2010 13:24	955558	10-1781	1.0 LANL	UPLOAD BOTH, USE HIGHER
027f2701.d	1202048646	JAC	23-FEB-2010 13:36	955558	10-1781	1.0 QC A	UPLOAD BOTH, USE HIGHER
028f2801.d	1202048647	JAC	23-FEB-2010 13:48	955558	10-1781	1.0 QC A	UPLOAD BOTH, USE HIGHER
029f2901.d	WAR100222-60 02	JAC	23-FEB-2010 14:01		022310	1.0	PASSES BOTH COLUMNS
030f3001.d	WAR100105-99 03	JAC	23-FEB-2010 14:13		022310	1.0	CLEAN
031f3101.d	1202047548	JAC	23-FEB-2010 14:26	955074	022310	1.0 QC A	DUSE
032f3201.d	1202047549	JAC	23-FEB-2010 14:38	955074		1.0 QC A	DUSE
033f3301.d	243880001	JAC	23-FEB-2010 14:50	955074	2010AR1221MDL-L	1.0 QCQA	DUSE
034f3401.d	243880002	JAC	23-FEB-2010 15:03	955074	2010AR1221MDL-L	1.0 QCQA	DUSE
035f3501.d	243880003	JAC	23-FEB-2010 15:15	955074	2010AR1221MDL-L	1.0 QCQA	DUSE

Instrument Batch: /chem/ecd8a.i/022310.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	243880004	JAC	23-FEB-2010 15:28	955074	2010AR1221MDL-L	1.0 QCQA	DUSE	
037f3701.d	243880005	JAC	23-FEB-2010 15:40	955074	2010AR1221MDL-L	1.0 QCQA	DUSE	
038f3801.d	243880006	JAC	23-FEB-2010 15:53	955074	2010AR1221MDL-L	1.0 QCQA	DUSE	
039f3901.d	243880007	JAC	23-FEB-2010 16:05	955074	2010AR1221MDL-L	1.0 QCQA	DUSE	
040f4001.d	243880008	JAC	23-FEB-2010 16:17	955074	2010AR1221MDL-L	1.0 QCQA	DUSE	
041f4101.d	WAR100222-60 03	JAC	23-FEB-2010 16:30		022310	1.0	PASSES BOTH COLUMNS	



GEL ORGANIC RUN LOG

INSTRUMENT ID: ECD8

DATE: 03/01/2010 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/022610.b Injection Volume: 1.0 ul

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1001f0101.d	WAR100219-99 01	JAOC	126-FEB-2010 05:32		1022610	1.0	CLEAN	
1002f0201.d	WAR100225-60 01	JAOC	126-FEB-2010 05:45		1022610	1.0	PASSES BOTH COLUMNS	
1003f0301.d	WAR100201-54	JAOC	126-FEB-2010 05:57		1022610	1.0	PASSES BOTH COLUMNS	
1004f0401.d	WAR091217-42	JAOC	126-FEB-2010 06:09		1022610	1.0	PASSES BOTH COLUMNS	
1005f0501.d	WAR091217-48	JAOC	126-FEB-2010 06:22		1022610	1.0	PASSES BOTH COLUMNS	
1006f0601.d	WAR100104-32	JAOC	126-FEB-2010 06:34		1022610	1.0	PATTERN ONLY	
1007f0701.d	WAR100104-21	JAOC	126-FEB-2010 06:46		1022610	1.0	PATTERN ONLY	
1008f0801.d	WAR100104-62	JAOC	126-FEB-2010 06:59		1022610	1.0	PASSES BOTH COLUMNS	
1009f0901.d	WAR100107-68	JAOC	126-FEB-2010 07:11		1022610	1.0	PATTERN ONLY	
1010f1001.d	WAR091219-DDT	JAOC	126-FEB-2010 07:23		1022610	1.0	DDT	
1011f1101.d	WAR100219-99 02	JAOC	126-FEB-2010 07:39		1022610	1.0	CLEAN	
1012f1201.d	1202053311	JAOC	126-FEB-2010 07:51	957585	1247104	1.0 QC A	UPLOAD BOTH, USE FRONT	
1013f1301.d	1202053312	JAOC	126-FEB-2010 08:03	957585	1247104	1.0 QC A	UPLOAD BOTH, USE FRONT	
1014f1401.d	1247104005	JAOC	126-FEB-2010 08:16	957585	1247104	1.0 BY12	UPLOAD BOTH, USE FRONT	
1015f1501.d	1247104011	JAOC	126-FEB-2010 08:28	957585	1247104	10.0 BY12	UPLOAD BOTH, USE FRONT	

Instrument Batch: /chem/ecd8a.i/022610.b

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Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
1016f1601.d	1247104012	JAOC	126-FEB-2010 08:40	957585	1247104	10.0 BY12	UPLOAD BOTH, USE FRONT	
1017f1701.d	1202053313	JAOC	126-FEB-2010 08:57	957585	1247104	10.0 QC A	UPLOAD BOTH, USE FRONT	

018f1801.d	1202053314	JAOC	26-FEB-2010 09:13	957585	247104	10.0 QC A		10.0 QC A		UPLOAD BOTH, USE FRONT
019f1901.d	247104019	JAOC	26-FEB-2010 09:30	957585	247104	1.0 BY12		1.0 BY12		UPLOAD BOTH, USE FRONT
020f2001.d	WAR100225-60 02	JAOC	26-FEB-2010 09:46		022610	1.0		1.0		PASSES BOTH COLUMNS
021f2101.d	WAR100219-99 03	JAOC	26-FEB-2010 09:59		022610	1.0		1.0		CLEAN
022f2201.d	247107010	JAOC	26-FEB-2010 10:11	956959	10-1836	10.0 LANL		10.0 LANL		DUSE, DILUTED WRONG SAMPLE
023f2301.d	247107011	JAOC	26-FEB-2010 10:23	956959	10-1836	10.0 LANL		10.0 LANL		UPLOAD BOTH, USE HIGHER
024f2401.d	1202053317	JAOC	26-FEB-2010 10:36	957590	10-1908	1.0 QC A		1.0 QC A		UPLOAD BOTH, USE HIGHER
025f2501.d	1202053318	JAOC	26-FEB-2010 10:48	957590	10-1908	1.0 QC A		1.0 QC A		UPLOAD BOTH, USE HIGHER
026f2601.d	247343001	JAOC	26-FEB-2010 11:00	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
027f2701.d	247343002	JAOC	26-FEB-2010 11:13	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
028f2801.d	247343003	JAOC	26-FEB-2010 11:25	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
029f2901.d	247343004	JAOC	26-FEB-2010 11:37	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
030f3001.d	247343005	JAOC	26-FEB-2010 11:50	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
031f3101.d	247343006	JAOC	26-FEB-2010 12:02	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
032f3201.d	WAR100225-60 03	JAOC	26-FEB-2010 12:14		022610	1.0		1.0		PASSES BOTH COLUMNS
033f3301.d	WAR100219-99 04	JAOC	26-FEB-2010 12:27		022610	1.0		1.0		CLEAN
034f3401.d	247343007	JAOC	26-FEB-2010 12:39	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER
035f3501.d	247343008	JAOC	26-FEB-2010 12:52	957590	10-1908	1.0 LANL		1.0 LANL		UPLOAD BOTH, USE HIGHER

Instrument Batch: /chem/ecd8a.i/022610.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
036f3601.d	247343009	JAOC	26-FEB-2010 13:04	957590	10-1908	1.0 LANL		UPLOAD BOTH, USE HIGHER
037f3701.d	247343010	JAOC	26-FEB-2010 13:16	957590	10-1908	1.0 LANL		UPLOAD BOTH, USE HIGHER
038f3801.d	247343011	JAOC	26-FEB-2010 13:29	957590	10-1908	1.0 LANL		UPLOAD BOTH, USE HIGHER
039f3901.d	247346001	JAOC	26-FEB-2010 13:41	957590	10-1911	1.0 LANL		UPLOAD BOTH, USE HIGHER
040f4001.d	1202053319	JAOC	26-FEB-2010 13:53	957590	10-1911	1.0 QC A		UPLOAD BOTH, USE HIGHER
041f4101.d	1202053320	JAOC	26-FEB-2010 14:06	957590	10-1911	1.0 QC A		UPLOAD BOTH, USE HIGHER

1042f4201.d	247346002	JAO	26-FEB-2010 14:18	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1043f4301.d	247346003	JAO	26-FEB-2010 14:31	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1044f4401.d	WAR100225-60 04	JAO	26-FEB-2010 14:43		022610	1.0		PASSES BOTH COLUMNS
1045f4501.d	WAR100219-99 05	JAO	26-FEB-2010 14:55		022610	1.0		CLEAN
1046f4601.d	247346004	JAO	26-FEB-2010 15:08	957590	10-1911	5.0	LANL	UPLOAD BOTH, USE HIGHER
1047f4701.d	247346005	JAO	26-FEB-2010 15:20	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1048f4801.d	247346006	JAO	26-FEB-2010 15:32	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1049f4901.d	247346007	JAO	26-FEB-2010 15:45	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1050f5001.d	247346008	JAO	26-FEB-2010 15:57	957590	10-1911	1.0	LANL	UPLOAD BOTH, USE HIGHER
1051f5101.d	WAR100225-60 05	JAO	26-FEB-2010 16:10		022610	1.0		PASSES BOTH COLUMNS
1052f5201.d	WAR100219-99 06	JAO	26-FEB-2010 16:22		022610	1.0		CLEAN



GEL Laboratories LLC

RTX-CLPEST2 30m/0.25 mm 1.0 INJ VOL  
 Data file : /chem/ecd8a.i/022610.b/040b4001.d  
 Lab Smp Id: 1202053319 Client Smp ID: RE15-10-8246MS  
 Inj Date : 26-FEB-2010 13:53  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |1202053319|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|MS|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 26-Feb-2010 12:24 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 40 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1911.sub  
 Target Version: 3.50 Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.56610	% 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			
2.483	2.482	0.001	15127360 183.418	6.2	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.832	6.832	0.000	11053750 179.334	6.0	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
3.555	3.555	0.000	2974806 821.893	27.7	80.00-	120.00	100.00
3.654	3.654	0.000	1951472 809.690	27.3	49.26-	89.26	65.60
3.730	3.730	0.000	1124607 773.926	26.1	20.45-	60.45	37.80
3.805	3.805	0.000	1175361 819.763	27.6	19.49-	59.49	39.51
4.002	4.002	0.000	1590628 812.252	27.4	35.35-	75.35	53.47
Average of Peak Concentrations =				27.2			

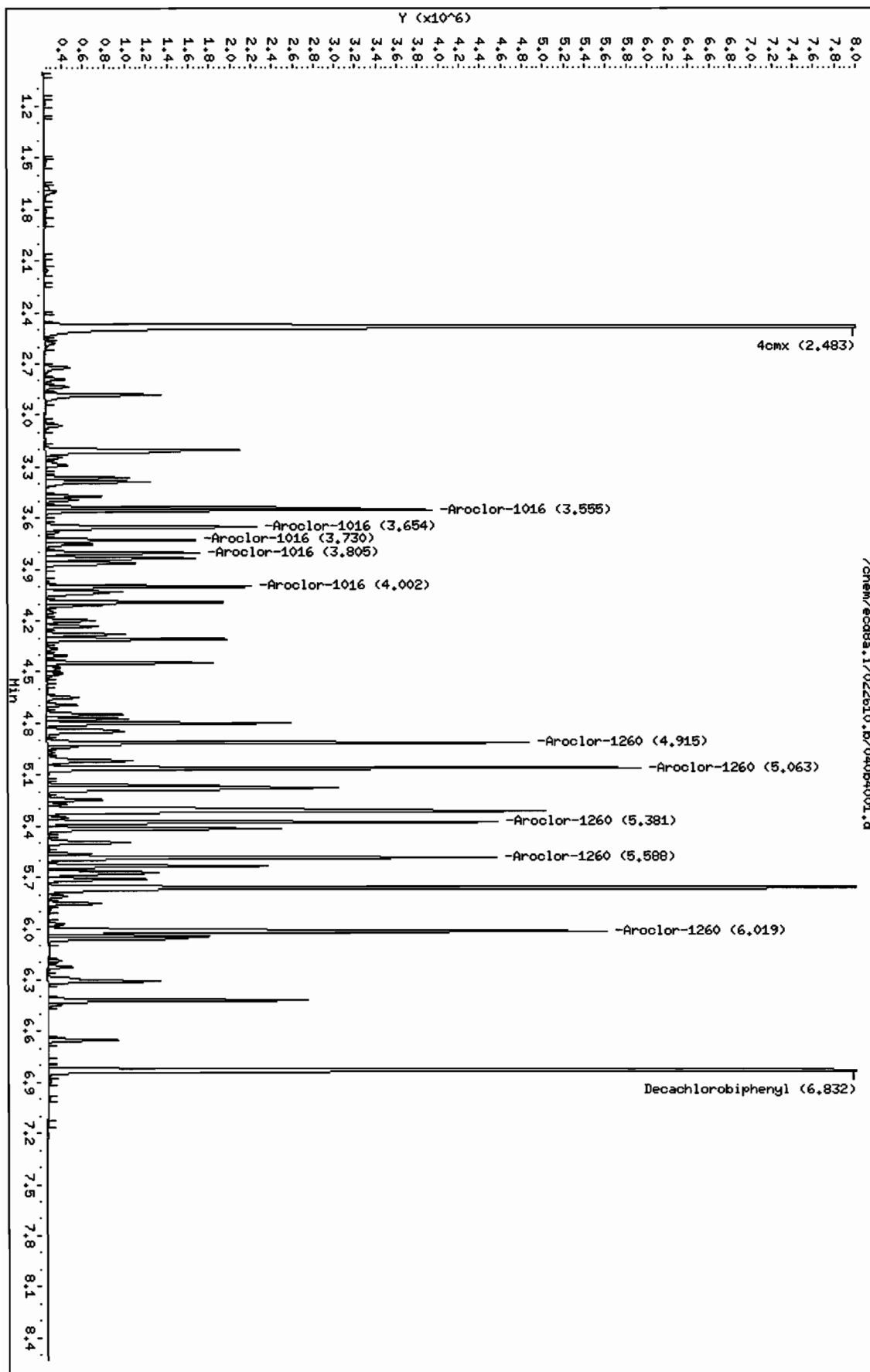
CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE	( ug/L)	(ug/Kg)	TARGET	RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5				
4.915	4.915	0.000	3755326	946.738	31.9	80.00-	120.00	100.00 (H)	
5.063	5.064	-0.001	4717697	981.005	33.1	100.76-	140.76	125.63	
5.381	5.381	0.000	3601458	978.712	33.0	72.28-	112.28	95.90	
5.588	5.588	0.000	3640385	951.535	32.1	75.94-	115.94	96.94	
6.019	6.019	0.000	5738509	957.407	32.3	129.87-	169.87	152.81	
Average of Peak Concentrations =					32.5				

#### QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/ecdb8a.i/022610.b/040b4001.d  
Date : 26-FEB-2010 13:53  
Client ID: REIS-10-8246HS  
Sample Info: 1120205331911  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecdb8a.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/022610.b/040f4001.d

Lab Smp Id: 1202053319

Client Smp ID: RE15-10-8246MS

Inj Date : 26-FEB-2010 13:53

Operator : JAOC

Inst ID: ecd8a.i

Smp Info : |1202053319|1|

Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|MS|||

Comment :

Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m

Meth Date : 26-Feb-2010 12:24 jen01212

Quant Type: ESTD

Cal Date : 23-FEB-2010 11:32

Cal File: 017f1701.d

Als bottle: 40

QC Sample: MS

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 10-1911.sub

Target Version: 3.50

Sample Matrix: Soil

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.14000	Weight of sample extracted (g)
M	1.56610	% Moisture

Cpnd Variable

Local Compound Variable

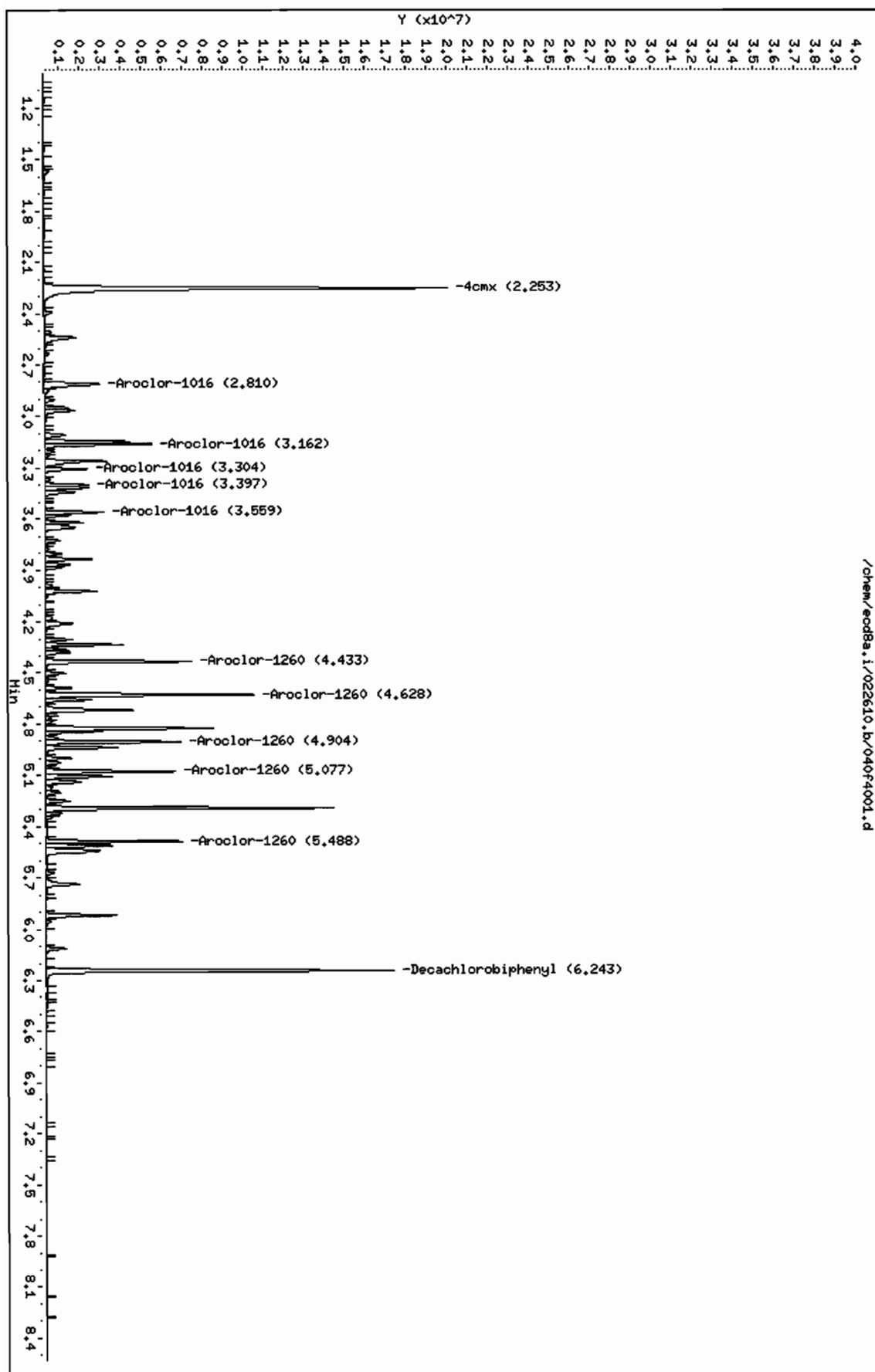
CONCENTRATIONS							
RT	EXP RT	DLT RT	RESPONSE ( ug/L)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
\$ 11 4cmx				CAS #: 877-09-8			
2.253	2.251	0.002	22600479 179.356	6.0	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.243	6.245	-0.002	15197704 168.269	5.7	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
2.810	2.810	0.000	3610815 793.364	26.7	80.00-	120.00	100.00
3.162	3.161	0.001	4607514 821.295	27.7	102.76-	142.76	127.60
3.304	3.305	-0.001	1894656 791.981	26.7	32.11-	72.11	52.47
3.397	3.397	0.000	1804795 843.118	28.4	25.85-	65.85	49.98
3.559	3.560	-0.001	2529729 816.262	27.5	48.54-	88.54	70.06
Average of Peak Concentrations =				27.4			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	6042455	933.118	31.4	80.00- 120.00	100.00	
4.628	4.630	-0.002	9203691	963.913	32.5	131.35- 171.35	152.32	
4.904	4.905	-0.001	5454862	962.791	32.4	67.90- 107.90	90.28	
5.077	5.077	0.000	5495658	930.832	31.4	71.07- 111.07	90.95	
5.488	5.488	0.000	5698528	914.864	30.8	75.37- 115.37	94.31	
Average of Peak Concentrations =					31.7			

Data File: /chem/ecd8a.i/022610.b/040f4001.d  
 Date : 26-FEB-2010 13:53  
 Client ID: RE15-10-8246HS  
 Sample Info: 1120205331911  
 Volume Injected (uL): 1.0  
 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/022610.b/041b4101.d  
 Lab Smp Id: 1202053320 Client Smp ID: RE15-10-8246MSD  
 Inj Date : 26-FEB-2010 14:06  
 Operator : JAOC Inst ID: ecd8a.i  
 Smp Info : |1202053320|1|  
 Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|MSD|||  
 Comment :  
 Method : /chem/ecd8a.i/022610.b/ECD8-B-8082-020310a.m  
 Meth Date : 01-Mar-2010 08:02 jen01212 Quant Type: ESTD  
 Cal Date : 23-FEB-2010 11:32 Cal File: 017b1701.d  
 Als bottle: 41 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 10-1911.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	30.13000	Weight of sample extracted (g)
M	1.56610	% 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			
2.483	2.482	0.001	13979681 169.502	5.7	80.00-	120.00	100.00
\$ 12 Decachlorobiphenyl				CAS #: 2051-24-3			
6.831	6.832	-0.001	10575382 171.573	5.8	80.00-	120.00	100.00
1 Aroclor-1016				CAS #: 12674-11-2			
3.555	3.555	0.000	2924717 808.054	27.2	80.00-	120.00	100.00
3.654	3.654	0.000	1898371 787.658	26.6	45.66-	85.66	64.91
3.731	3.730	0.001	1093881 752.781	25.4	19.41-	59.41	37.40
3.805	3.805	0.000	1147159 800.094	27.0	18.16-	58.16	39.22
4.001	4.002	-0.001	1551570 792.307	26.7	33.55-	73.55	53.05
Average of Peak Concentrations =				26.6			

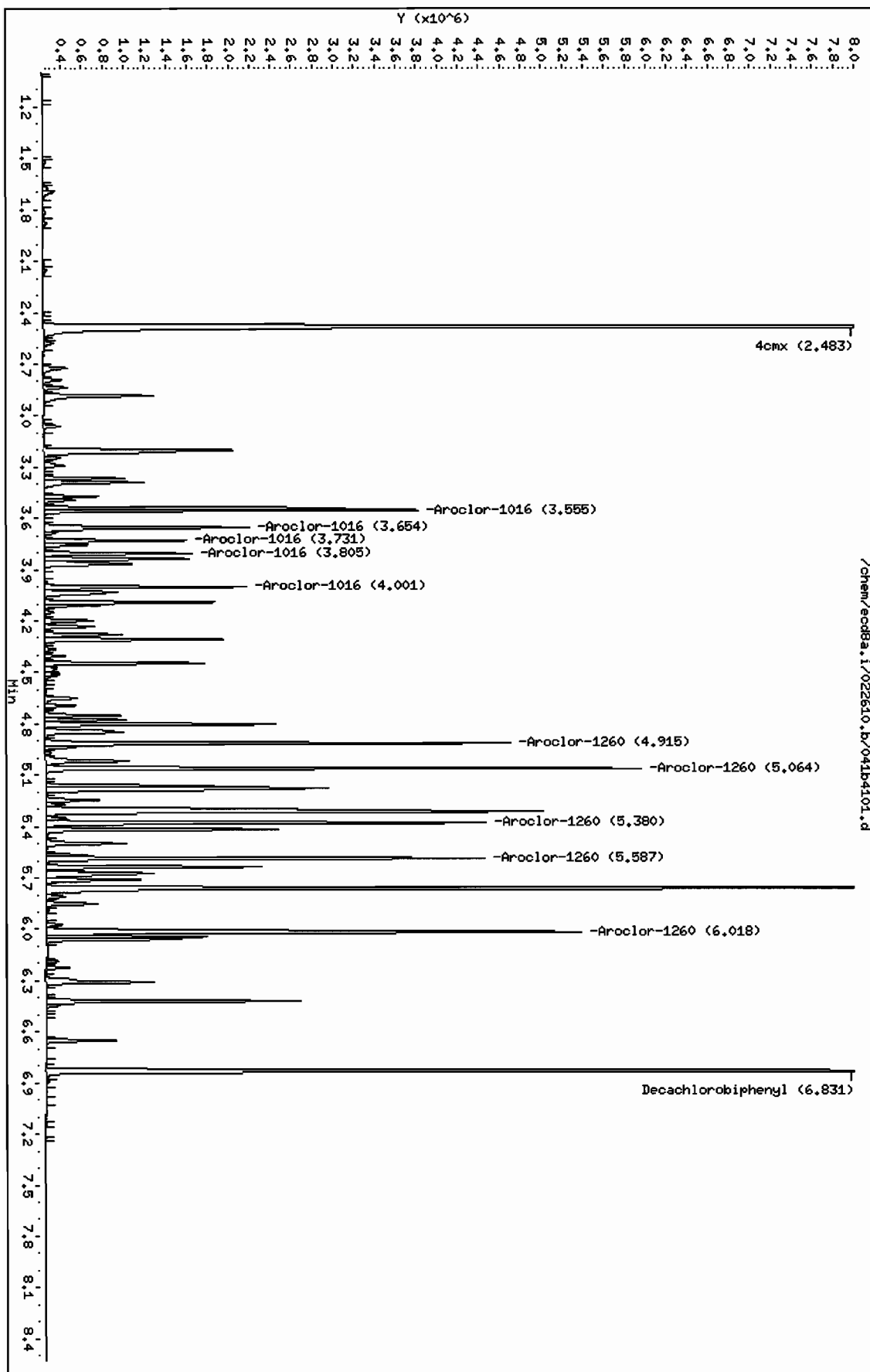
CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5			
4.915	4.915	0.000	3694659	931.443	31.4	80.00- 120.00	100.00	
5.064	5.064	0.000	4638574	964.552	32.5	100.35- 140.35	125.55	
5.380	5.381	-0.001	3548485	964.317	32.5	71.55- 111.55	96.04	
5.587	5.588	-0.001	3588856	938.067	31.6	75.81- 115.81	97.14	
6.018	6.019	-0.001	5652858	943.117	31.8	128.72- 168.72	153.00	
Average of Peak Concentrations =					32.0			



Data File: /chem/ecd8a.i/022610.b/041b4101.d  
Date: 26-FEB-2010 14:06  
Client ID: RELS-10-8246HSD  
Sample Info: 1120205320141  
Volume Injected (uL): 1.0  
Column phase: CLP2

Instrument: ecd8a.i  
Operator: JROC  
Column diameter: 0.25

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Data File: /chem/ecd8a.i/022610.b/041f4101.d  
Report Date: 01-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/022610.b/041f4101.d  
Lab Smp Id: 1202053320 Client Smp ID: RE15-10-8246MSD  
Inj Date : 26-FEB-2010 14:06  
Operator : JAOC Inst ID: ecd8a.i  
Smp Info : |1202053320|1|  
Misc Info : |ECD82P\_1S|957590|SVA|QC A|SOIL|MSD|||  
Comment :  
Method : /chem/ecd8a.i/022610.b/ECD8-F-8082-020310a.m  
Meth Date : 01-Mar-2010 08:01 jen01212 Quant Type: ESTD  
Cal Date : 23-FEB-2010 11:32 Cal File: 017f1701.d  
Als bottle: 41 QC Sample: MSD  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 10-1911.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	30.13000	Weight of sample extracted (g)
M	1.56610	% Moisture

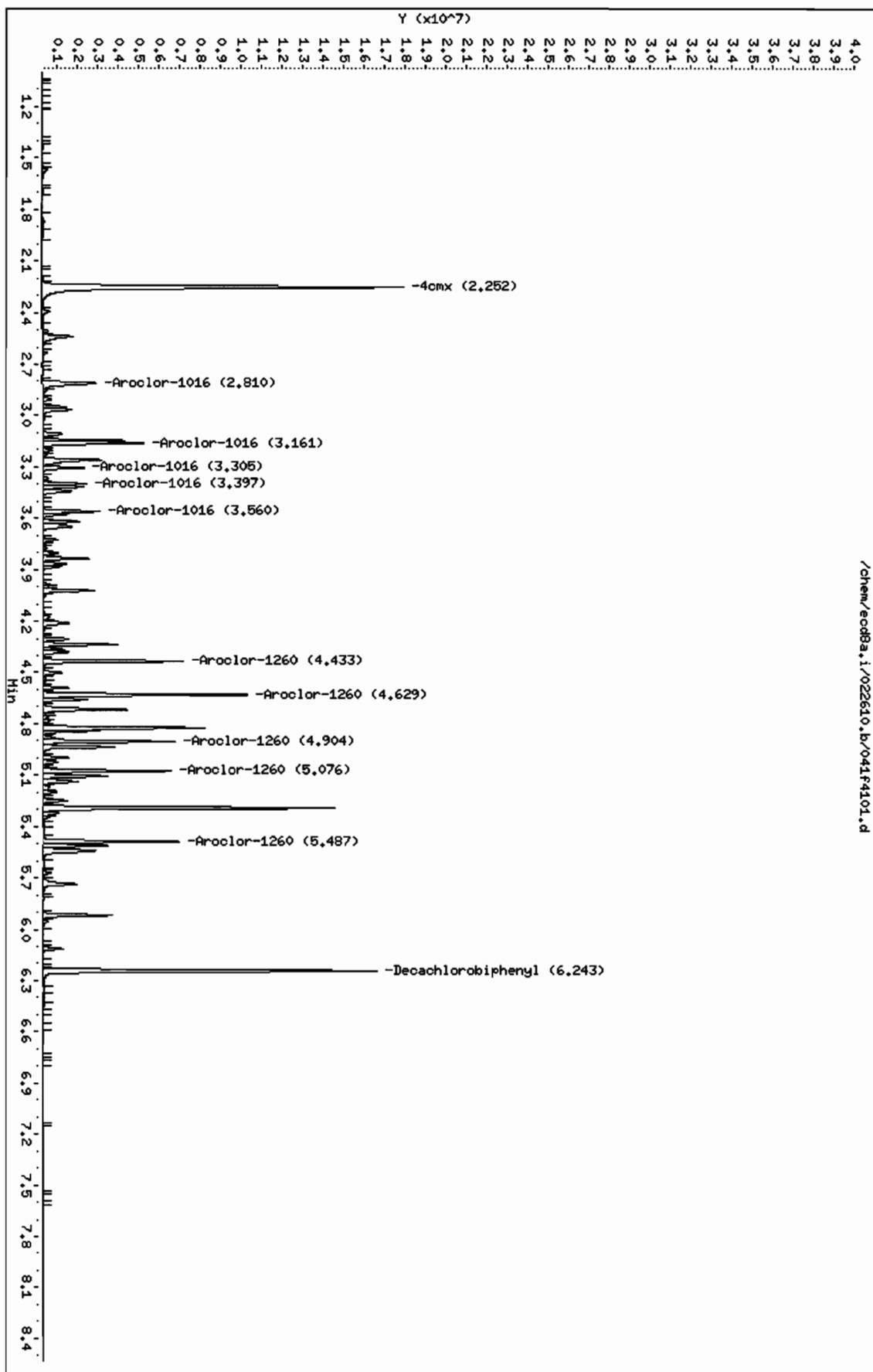
Cpnd Variable Local Compound Variable

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	20706515	164.325	5.5 80.00- 120.00	100.00	
-----							
\$ 12 Decachlorobiphenyl CAS #: 2051-24-3							
6.243	6.245	-0.002	14616738	161.836	5.4 80.00- 120.00	100.00	
-----							
1 Aroclor-1016 CAS #: 12674-11-2							
2.810	2.810	0.000	3451797	758.424	25.6 80.00- 120.00	100.00	
3.161	3.161	0.000	4496633	801.530	27.0 104.84- 144.84	130.27	
3.305	3.305	0.000	1837548	768.110	25.9 33.07- 73.07	53.23	
3.397	3.397	0.000	1719837	803.429	27.1 26.78- 66.78	49.82	
3.560	3.560	0.000	2429480	783.915	26.4 48.31- 88.31	70.38	
Average of Peak Concentrations =				26.4			

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE ( ug/L)		(ug/Kg)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
7 Aroclor-1260					CAS #: 11096-82-5			
4.433	4.434	-0.001	5941800	917.574	30.9	80.00~ 120.00	100.00	
4.629	4.630	-0.001	8981457	940.638	31.7	131.74~ 171.74	151.16	
4.904	4.905	-0.001	5340196	942.553	31.8	69.00~ 109.00	89.88	
5.076	5.077	-0.001	5389472	912.847	30.8	72.38~ 112.38	90.70	
5.487	5.488	-0.001	5673040	910.772	30.7	77.14~ 117.14	95.48	
Average of Peak Concentrations =					31.2			

Data File: /chem/ecob8a.i/022610.b/041f4101.d  
 Date: 26-FEB-2010 14:06  
 Client ID: RE15-10-8246MSD  
 Sample Info: 1120205332011  
 Volume Injected (uL): 1.0  
 Column phase: CLP1

Instrument: ecob8a.i  
 Operator: JROC  
 Column diameter: 0.25



# Prep Logbook Extraction of Semivolatile and Nonvolatile Organic Compounds from Soil, Sludge, and Other Miscellaneous Solid Samples

Batch ID: 957587      Verified by: \_\_\_\_\_

Analyst: Andrew Schwenin

Method: SW846 3550B

Lab SOP: GL-OA-E-010 REV# 18

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Aliquot (g)	Clean Up	Prior to Clean up (mL)	Amount Cleaned (mL)	After Clean up (mL)	CleanPrepped Aliquot (mL)	Prepped Factor (mL/g)
120205317 MB	25-FEB-2010 21:15:00	30	H2SO4/KM2	2	9	1	0.03333	
120205318 LCS	25-FEB-2010 21:15:00	30	H2SO4/KM2	2	9	1	0.03333	
247343001	25-FEB-2010 21:15:00	30.03	H2SO4/KM2	2	9	1	0.0333	
247343002	25-FEB-2010 21:15:00	30.15	H2SO4/KM2	2	9	1	0.03317	
247343003	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247343004	25-FEB-2010 21:15:00	30.19	H2SO4/KM2	2	9	1	0.03312	
247343005	25-FEB-2010 21:15:00	30.09	H2SO4/KM2	2	9	1	0.03323	
247343006	25-FEB-2010 21:15:00	30.09	H2SO4/KM2	2	9	1	0.03323	
247343007	25-FEB-2010 21:15:00	30.14	H2SO4/KM2	2	9	1	0.03318	
247343008	25-FEB-2010 21:15:00	30.07	H2SO4/KM2	2	9	1	0.03326	
247343009	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247343010	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247343011	25-FEB-2010 21:15:00	30.19	H2SO4/KM2	2	9	1	0.03312	
247346001	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
120205319 MS (247346001)	25-FEB-2010 21:15:00	30.14	H2SO4/KM2	2	9	1	0.03318	
1202053320 MSD (247346001)	25-FEB-2010 21:15:00	30.13	H2SO4/KM2	2	9	1	0.03319	
247346002	25-FEB-2010 21:15:00	30.06	H2SO4/KM2	2	9	1	0.03327	
247346003	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
247346004	25-FEB-2010 21:15:00	30.04	H2SO4/KM2	2	9	1	0.03329	
247346005	25-FEB-2010 21:15:00	30.11	H2SO4/KM2	2	9	1	0.03321	
247346006	25-FEB-2010 21:15:00	30.07	H2SO4/KM2	2	9	1	0.03326	
247346007	25-FEB-2010 21:15:00	30.01	H2SO4/KM2	2	9	1	0.03332	
247346008	25-FEB-2010 21:15:00	30.02	H2SO4/KM2	2	9	1	0.03331	
Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:		
LCS	1202053318	PCB Laboratory Control	WE100210-07	1	mL	Clean up Date: 2/25/10		
MS	1202053319	PCB Laboratory Control	WE100210-07	1	mL	Clean up Initials: AJS		
MSD	1202053320	PCB Laboratory Control	WE100210-07	1	mL	Verified By: AV		
SURR	ALL	PEST LOW LEVEL SURROGATE 200 UG/L	UE091217-15	1	mL	Final Solvent: Hexane		
REGNT	ALL	Hexane	1273340-B2	150	mL	Clean Up SOP: GL-OA-E-037		
REGNT	ALL	Acetone	1273823-B1	150	mL			
REGNT	ALL	5% Potassium Permanganate	B1275177-F	5	mL			
SOURC	ALL	SODIUM SULFATE	1274910	30	g			